

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)

Name of Project: An Interior Fitup for City of Rocky Mount Operations Center
Address: 628 Albemarle Avenue, Rocky Mount Zip Code 27801
Proposed Use: existing business
Owner/Authorized Agent: Mr. Brad Walters Phone # (252)467-4827 E-Mail william.walters@rockymountnc.gov
Owned By: ☐ City/County ☒ Private ☐ State
Code Enforcement Jurisdiction: ☒ City: Rocky Mount ☐ County: ☐ State

LEAD DESIGN PROFESSIONAL: William H. Dove

DESIGNER	FIRM	NAME	LICENSE#	TELEPHONE#	E-MAIL
Architectural	William H. Dove Architect	William H. Dove	1029	(252) 314-0820	sod1956@aol.com
Civil (Surveyor)					
Electrical	Kilian Engineering	Keith Cochran P.E.	048744	(252) 438-8778	kcocoran@kilianengineering.com
Fire Alarm					
Plumbing	Kilian Engineering	Keith Cochran P.E.	048744	(252) 438-8778	kcocoran@kilianengineering.com
Mechanical	Kilian Engineering	Keith Cochran P.E.	048744	(252) 438-8778	kcocoran@kilianengineering.com
Sprinkler-Standpipe					
Structural	Daniel Proctor, P.E.	Daniel Proctor, P.E.	24405	(252) 903-2435	daniel@smithsonnet.com
Retaining Walls>5' High					
Other					

2012 EDITION OF NC CODE FOR: ☐ New Construction ☐ Addition ☒ UpfitEXISTING: ☐ Reconstruction ☒ Alteration ☐ RepairCONSTRUCTED unknown ORIGINAL USE Business ADDITION unknown CURRENT USE Business

BUILDING DATA

Construction Type: ☐ I-A ☐ I-B ☐ II-A ☐ II-B ☐ III-A ☒ III-B ☐ IV ☐ V-A ☐ V-B
Mixed Construction: ☒ No ☐ Yes Types N/A
Sprinklers: ☒ No ☐ Partial ☐ Yes ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D
Standpipes: ☒ No ☐ Yes Class: ☐ I ☐ II ☐ III ☐ WET ☐ DRY
Fire District: ☒ No ☐ Yes Flood Hazard Area: ☒ No ☐ Yes
Building Height: Feet 28'-0"± Number of Stories 2
Mezzanine: ☐ No ☒ Yes

GROSS BUILDING DATA:

FLOOR	EXISTING (SQ. FT.)	NEW (SQ. FT.)	SUB-TOTAL
6th Floor	N/A		
5th Floor	N/A		
4th Floor	N/A		
3rd Floor	N/A		
2nd Floor	2,102	1,893	3,995
Mezzanine	N/A		
1st Floor	7,014		7,014
Lower Floor	N/A		
TOTAL	9,116		11,009

ALLOWABLE AREA

Primary Occupancy: ☐ Assembly ☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ☐ A-5
☒ Business ☐ Educational ☐ Factory ☐ F-1 Moderate ☐ F-2 Low
☐ Hazardous ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM
☐ Institutional ☐ I-1 ☐ I-2 ☐ I-3 ☐ I-4 ☐ I-5
I-3 Use Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
☐ Mercantile ☐ Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
☐ Storage ☐ S-1 Moderate ☐ S-2 Low ☐ High-piled
☐ Utility and Miscellaneous ☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage

Accessory Occupancy: N/A

Special Uses: ☐ 402 ☐ 403 ☐ 404 ☐ 405 ☐ 406 ☐ 407 ☐ 408 ☐ 409 ☐ 410 ☐ 411
☐ 412 ☐ 413 ☐ 414 ☐ 415 ☐ 416 ☐ 417 ☐ 418 ☐ 419 ☐ 420 ☐ 421

Special Provisions: ☐ 510.2 ☐ 510.3 ☐ 510.4 ☐ 510.5 ☐ 510.6 ☐ 510.7 ☐ 510.8 ☐ 510.9

Mixed Occupancy: ☒ No ☐ Yes Separation: N/A Hour Exception: _____

☐ Incidental Use Separation (509.2) This separation is not exempt as a Non-Separated Use (see exceptions).

☒ Non-Separated Use (508.3.2) The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.

☐ Separated Use (508.3.3) - See below for area calculations. For each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} = \leq 1$$

$$\frac{N/A}{N/A} + \frac{N/A}{N/A} = N/A \leq 1.00$$

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 AREA	(C) AREA FOR FRONTAGE INCREASE ¹	(D) AREA FOR SPRINKLER INCREASE ²	(E) ALLOWABLE AREA OR UNLIMITED ³	(F) MAXIMUM BUILDING AREA ⁴
1	Business	7,014	19,000	N/A	N/A		19,000
2	Business	3,995	19,000	N/A	N/A		
3							

¹ Frontage area increases from Section 506.2 are computed thus:

a. Perimeter which fronts a public way or open space having 20 feet minimum width = N/A (F)

b. Total Building Perimeter = N/A (P)

c. Ratio (F/P) = N/A (F/P)

d. W = Minimum width of public way = N/A (W)

e. Percent of frontage increase $I_f = 100 [F/P - 0.25] \times W/30 = \underline{N/A} (\%)$

² The sprinkler increase per Section 506.3 is as follows:

a. Multi-story building $I_s = 200$ percent

b. Single story building $I_s = 300$ percent

³ Unlimited area applicable under conditions of Sections Group B, F, M, S, A-4 (507);

Group A motion picture (507.10); Malls (402.6); and H-2 aircraft paint hangers (507.8).

⁴ Maximum Building Area = total number of stories in the building x E (506.4).

⁵ The maximum area of parking garages must comply with 406.3.5. The maximum area of air traffic control towers must comply with 412.1.2.

ALLOWABLE HEIGHT

	ALLOWABLE (TABLE 503)	INCREASE FOR SPRINKLERS	SHOWN ON PLANS	CODE REFERENCE
Type of Construction	Type <u>III-B</u>		Type <u>III-B</u>	
Building Height in Feet	<u>75.0</u> Feet	H+20' = <u>N/A</u> Feet	<u>28'-0"</u> Feet	
Building Height in Stories	<u>3</u> Stories	Stories + 1 = <u>N/A</u>	<u>2</u> Stories	

FIRE PROTECTION REQUIREMENTS

Life Safety Plan Sheet #, if Provided LS1

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING		DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
		REQUIRED	PROVIDED (W/ <u>N/A</u> * REDUCTION)				
Structural frame, including columns, girders, trusses							
Exterior bearing walls							
North							
East							
West							
South							
Interior bearing walls							
Exterior nonbearing walls and partitions							
North							
East							
West							
South							
Interior nonbearing walls and partitions							
Floor construction including supporting beams and joists							
Roof construction including supporting beams and joists							
Shaft Enclosures - Exit							
Shaft Enclosures - Other (incinerator)							
Corridor Separation							
Occupancy Separation							
Party/Fire Wall Separation							
Smoke Barrier Separation							
Tenant Separation							
Incidental Use Separation							

*Indicates section number permitting reduction

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: ☐ No ☒ Yes Smoke Detection Systems: ☐ No ☒ Yes
Exit Signs: ☐ No ☒ Yes Panic Hardware: ☒ No ☐ Yes
Fire Alarm: ☒ No ☐ Yes

EXIT REQUIREMENTS

NUMBER AND ARRANGEMENT OF EXITS

FLOOR, ROOM OR SPACE DESIGNATION	MIN. NUMBER OF EXITS ²		TRAVEL DISTANCE		ARRANGEMENT MEANS OF EGRESS ^{1,3} (SECTION 1007.1)	
	REQUIRED (1006.1)	SHOWN ON PLANS	ALLOWABLE (Table 1017.2)	ACTUAL	REQ'D DISTANCE BETWEEN EXITS	ACTUAL DISTANCE SHOWN ON PLANS
First Floor	EXISTING TO REMAIN AS IS; NO CHANGES					
Second Floor	2	2	200'	67'-11"	60'-1"	61'-10"

¹ Corridor dead ends (Section 1020.4)² Single exits (Table 1006.3.2)³ Common Path of Travel (Section 1006.2)

EXIT WIDTH - FIRST FLOOR EXISTING TO REMAIN; NO CHANGES

USE GROUP OR SPACE DESCRIPTION	AREA ¹ SQ. FT.	OCCUP PER ² AREA (1004.1.2)	CALCULATED OCCUPANT LOAD	EGRESS WIDTH PER OCCUPANT (Table 1005.1)				REQ'D WIDTH (SECT 1005.1) (a/b) x c		ACTUAL WIDTH SHOWN ON PLANS	
				STAIR	LEVEL	STAIR	LEVEL	STAIR	LEVEL		
First Floor		EXISTING TO REMAIN	AS IS;	NO CHANGES							
Second Floor	3,995	100 gross	40	.3	.2	12"	8"	34"	34"		

¹ See Table 1004.1.2 to determine whether net or gross area is applicable.² See definition "Area, Gross" and "Area, Net" (Section 1002)³ Minimum stairway width (Section 1009.1); min. corridor width (Section 1017.2); min. door width (Section 1008.1)⁴ Minimum width of exit passageway (Section 1021.2)⁵ See Section 1004.5 for converging exits.⁶ The loss of one means of egress shall not reduce the available capacity to less than 50 percent of the total required (Section 1005.1)⁷ Assembly occupancies (Section 1025)

ACCESSIBLE PARKING:

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED				TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 8' CLEARANCE	SPACES WITH 8' CLEARANCE	SPACES WITH 8' CLEARANCE	SPACES WITH 8' CLEARANCE	
PARKING							
TOTAL							

PLUMBING FIXTURE REQUIREMENTS

USE	WATERCLOSETS		URINALS	LAVATORIES		SHOWERS/ TUBS	DRINKING FOUNTAINS	
	MALE	FEMALE		MALE	FEMALE		REGULAR	ACCESSIBLE
EXISTING	3	1	3	1	1	N/A		
NEW	2; uni-sex 1	1	3	2; uni-sex 1	2	N/A		
REQUIRED	2	2		2	2	N/A	N/A	N/A

STRUCTURAL DESIGN

DESIGN LOADS:

Importance Factors: Wind (I_w) _____
Snow (I_s) _____
Seismic (I_e) _____

Live Loads: Roof _____
Mezzanine _____
Floor 50.0 psf
Ceiling 10.0 psf

Dead Loads: _____
10.0 psf

Wind Loads: Basic Wind Speed _____ (ASCE-7-02)
Exposure Category _____
Wind Base Shears (For MWFRS) V_x _____ V_y _____

SEISMIC DESIGN CATEGORY A

Compliance With Section 1616.4 Only? ☐ Yes ☐ NoSEISMIC DESIGN CATEGORY ☐ B ☐ C ☐ D

Seismic Use Group _____
Spectral Response Acceleration S_a _____ % S_1 _____ %
Site Classification ☐ Field Test ☐ Presumptive ☐ Historical Data

Basic Structural System:

☐ Bearing Wall ☐ Dual W/ Special Moment Frame☐ Building Frame ☐ Dual W/ Intermediate R/C or Special Steel☐ Moment Frame ☐ Inverted PendulumSeismic Base Shear V_x _____ V_y _____

Analysis Procedure:

☐ Simplified ☐ Modal ☐ Equivalent Lateral Force

Architectural, Mechanical, Components Anchored? _____

LATERAL DESIGN CONTROL: ☐ Earthquake ☐ Wind

SOIL BEARING CAPACITIES:

Field Test (provide copy of test report) _____ psf

Presumptive Bearing Capacity _____ psf

Pile Size, Type, and Capacity _____

SPECIAL APPROVALS:

(Local Jurisdiction, Department of Insurance, OSC, DPI, DFS, ICC, etc., describe below)

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A1.3 PLAN ENLARGEMENTS / DETAILS
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P2 WASTE DEMO PLANS
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E3 POWER DEMO PLANS
E4 LIGHTING PLANS
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ENERGY SUMMARY

ROCKY MOUNT, NASH COUNTY CLIMATE ZONE 4a

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portion of the project information for the plan data sheet. If energy cost budget method, state the annual energy cost budget vs allowable annual energy cost budget.

THERMAL ENVELOPE

Method of Compliance: ☐ Prescriptive ☐ % Glazed Wall Area ☐ Performance ☐ Energy Cost Budget

Roof/ Ceiling Assembly (each assembly)

Description of assembly: N/A
U-Value of total assembly: N/A
R-Value of insulation: N/A
 Skylights in each assembly: N/A
U-Value of skylight: N/A
 total square footage of skylights in each assembly

Exterior Walls (each assembly)

Description of assembly: N/A
U-Value of total assembly: N/A
R-Value of insulation: N/A
 Openings (windows or doors with glazing): N/A
U-Value of assembly: N/A
 Store front: N/A
 Door U-Values: N/A

Walls adjacent to unconditioned space (each assembly) N/A

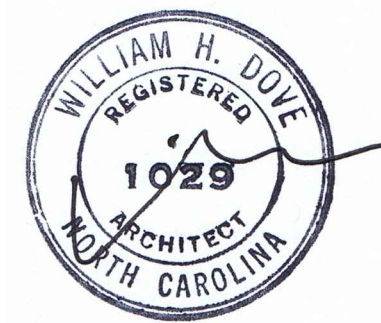
Description of assembly: N/A
U-Value of total assembly: N/A
R-Value of insulation: N/A
 Openings (windows or doors with glazing): N/A
U-Value of assembly: N/A
 Low e required, if applicable: N/A
 Door R-Values: N/A

Walls below grade (each assembly) N/A

Description of assembly: N/A
U-Value of total assembly: N/A
R-Value of insulation: N/A

Floors over unconditioned space (each assembly) N/A

Description of assembly: N/A
U-Value of total assembly: N/A
R-Value of insulation: N/A
 Horizontal/ vertical requirement



08-01-22

INTERIOR RENOVATIONS FOR
ROCKY MOUNT ENERGY
RESOURCES OPERATION CTR.
ROCKY MOUNT, NORTH CAROLINA

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REVISIONS

PROJECT # 22-06

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DRAWING TITLE

APPENDIX 'B'

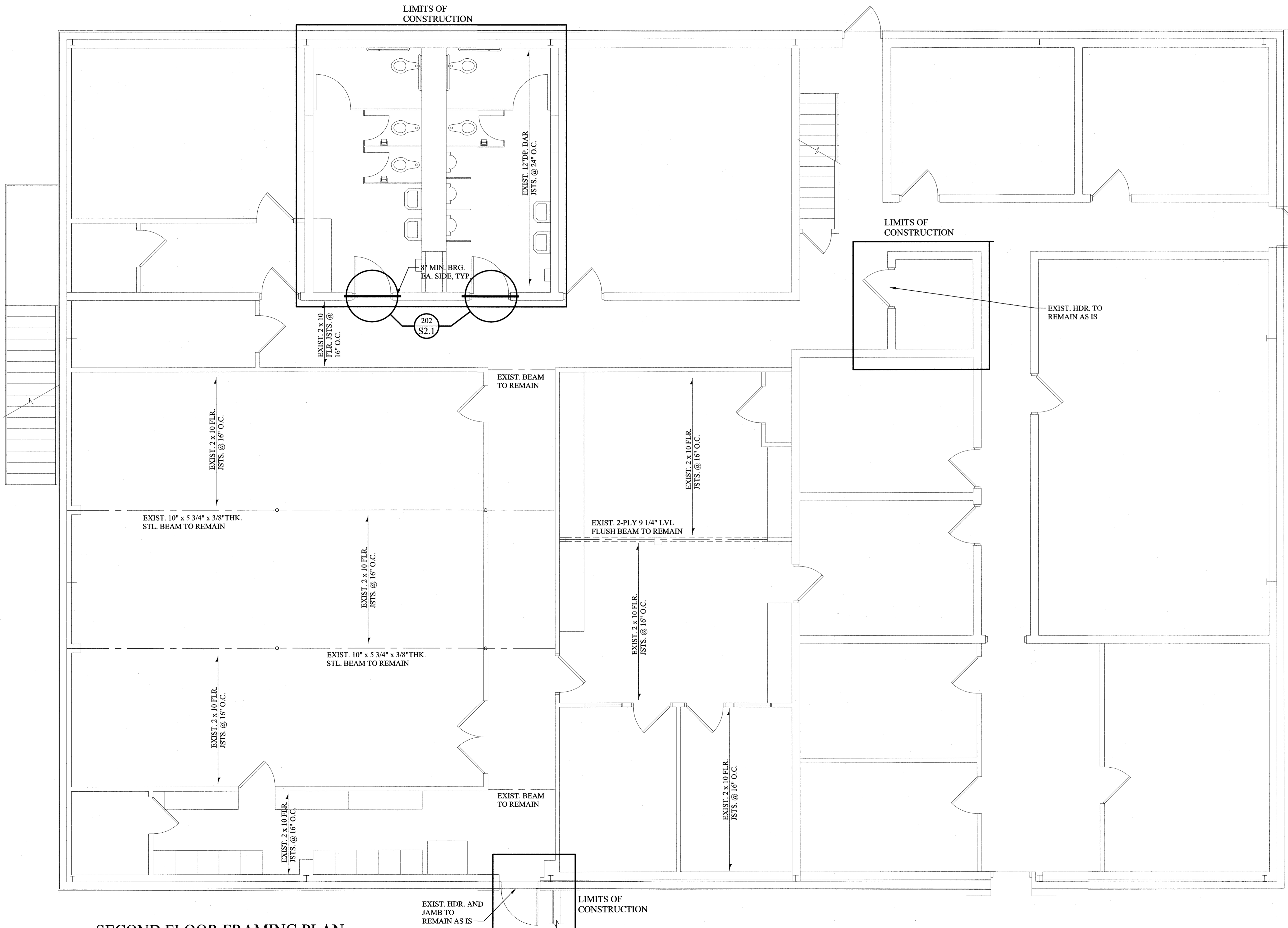
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AB1

WILLIAM H. DOVE, A.I.A.
ARCHITECT

3303 SUNSET AVENUE, ROCKY MOUNT, NC 27804

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SECOND FLOOR FRAMING PLAN

SCALE: 1/4" = 1'-0"

GENERAL FRAMING NOTES:

1. "SIMPSON" TOP FLANGED HANGERS, "LU" TYPE, SHALL BE PROVIDED @ EACH JOIST, U.N.O. FOR SPECIFIC HANGING CONDITIONS. FOLLOW PROPER STANDARD MANUFACTURER INSTALLATION REQUIREMENTS, UNLESS OTHERWISE NOTED.
2. SR - SINGLE JOIST
DR - DOUBLE JOIST
TR - TRIPLE JOIST
3. AT ALL LVL'S BEARING ON WALLS, FLOORS, ETC. PROVIDE COMPLETE FULL BEARING ALONG ENTIRE SURFACE OF THE LVL'S BEARING SURFACE.
4. HATCHED AREA AT WALL REPRESENTS BEARING WALL CONDITION. PROVIDE REQUIRED STRUCTURAL BLOCKING AT CONDITION.
5. G.C. TO COORDINATE IN SECOND FLOOR FRAMING TO CONFIRM AND INSTALL DOUBLE JOISTS TO NEW WALLS THE ARE PARALLEL TO THE WALLS.
6. NEW OPENINGS IN EXTERIOR WALL SHALL USE STANDARD METAL BUILDING FRAMING FOR OPENING HEADER SYSTEM. G.C. TO COORDINATE AND INSTALL NEW OPENING STRUCTURE AROUND ALL NEW OPENINGS.
7. GENERAL CONTRACTOR TO COORDINATE WITH PULL-DOWN STAIR, DOOR AND WINDOW MANUFACTURERS ON ROUGH OPENING SIZES.

HEADER SCHEDULE

HEADER #	DESCRIPTION
H1	(1) 1/2" PLYWOOD SHEATHING (SIZED TO LENGTH & WIDTH OF OPENING AT 2x10) SANDWICHED BETWEEN (2) 2x10'S, ATTACHED TOGETHER BY REQUIRED MINIMUM FASTENERS.
H2	A NEW METAL FRAMED BUILDING FRAMED OPENING, VERIFY EXISTING GRID & MATERIAL TO MATCH ACCORDINGLY.
H3	(1) 1/2" PLYWOOD SHEATHING (SIZED TO LENGTH & WIDTH OF OPENING AT 2x8) SANDWICHED BETWEEN (2) 2x8'S, ATTACHED TOGETHER BY REQUIRED MINIMUM FASTENERS.
H4	
HEADER SPAN	NUMBER OF JACK STUDS
3'-6" OR LESS	(1) JACK STUD TO SUPPORT EACH END
3'-7" OR MORE	(2) JACK STUDS TO SUPPORT EACH END; UNLESS THE PLANS ARE INDICATED OTHERWISE.

NOTES:

1. ALL NON-LOAD BEARING WALLS THAT HAVE AN OPENING, WILL RECEIVE (2) 2x6'S W/ 1/2" PLYWOOD SPACER.
2. ALL WALLS PARALLEL TO FLOOR JOISTS SHALL HAVE DOUBLE JOIST ATTACHED TOGETHER.
3. #1 GRADE OR BETTER OF SOUTHERN YELLOW PINE, #2 GRADE SPRUCE-PINE-FIR IS REQUIRED TO BE USED ON ALL EXTERIOR AND INTERIOR WALL BEARING HEADER CONDITIONS.

INTERIOR RENOVATIONS FOR
ROCKY MOUNT ENERGY
RESOURCES OPERATION CTR.
ROCKY MOUNT, NORTH CAROLINA

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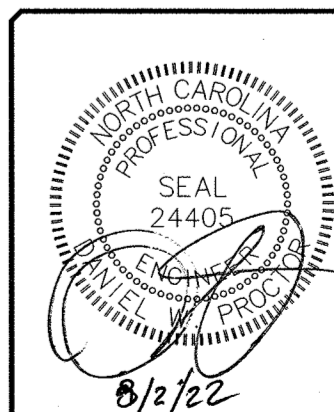
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SECOND FLOOR
FRAMING PLAN

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S1.1

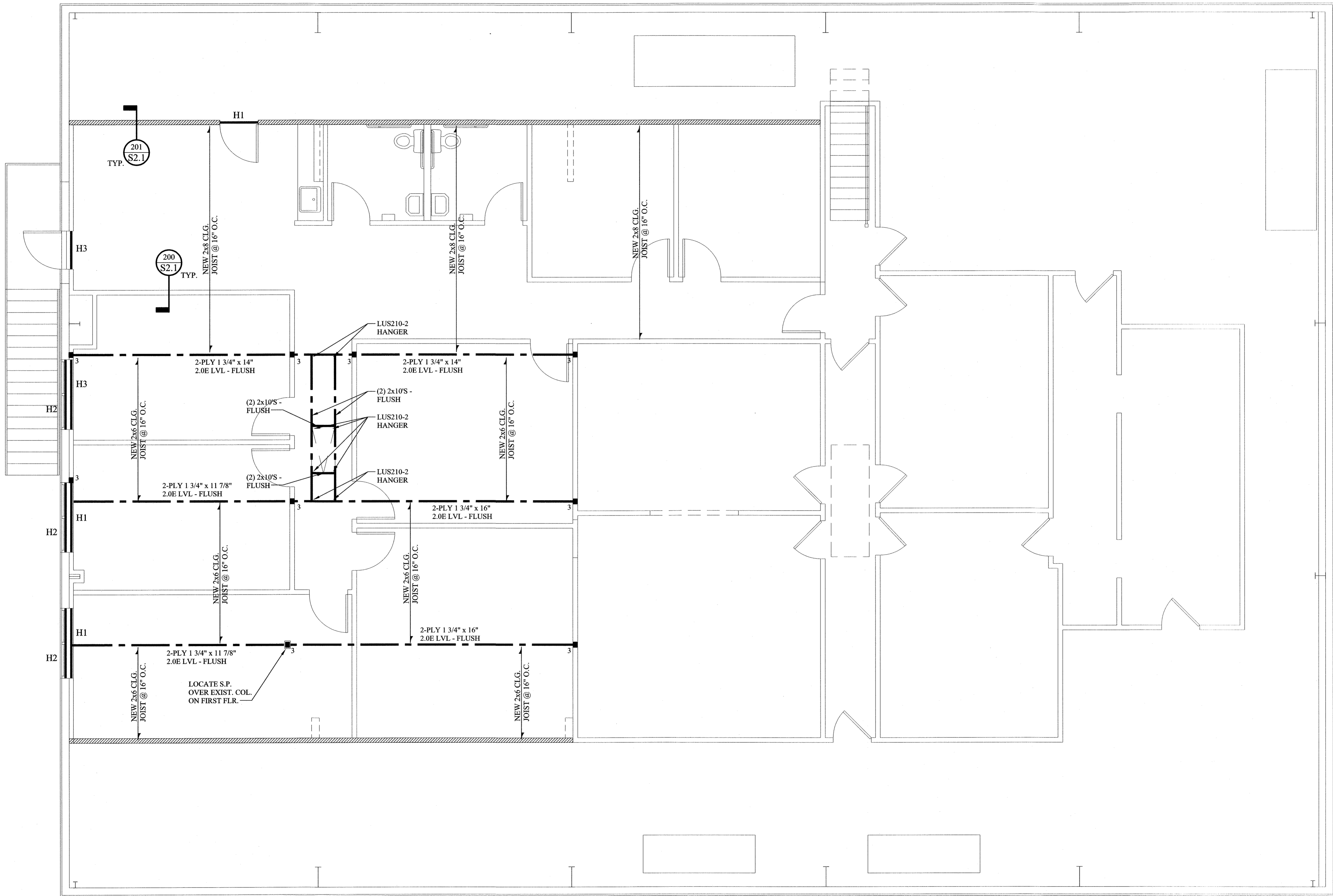
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SECOND FLOOR CEILING FRAMING PLAN

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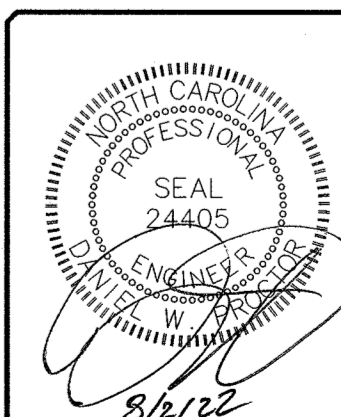
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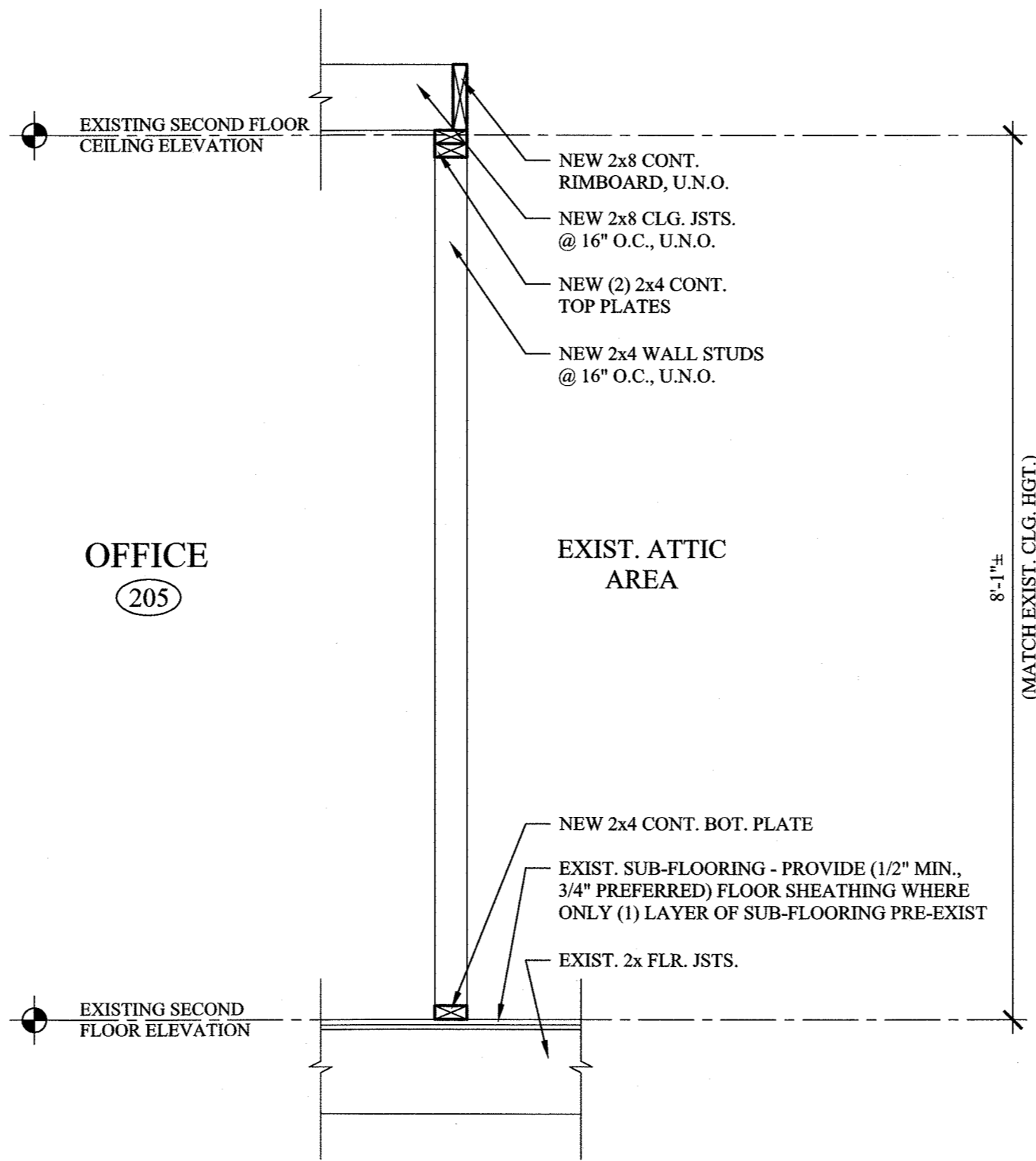
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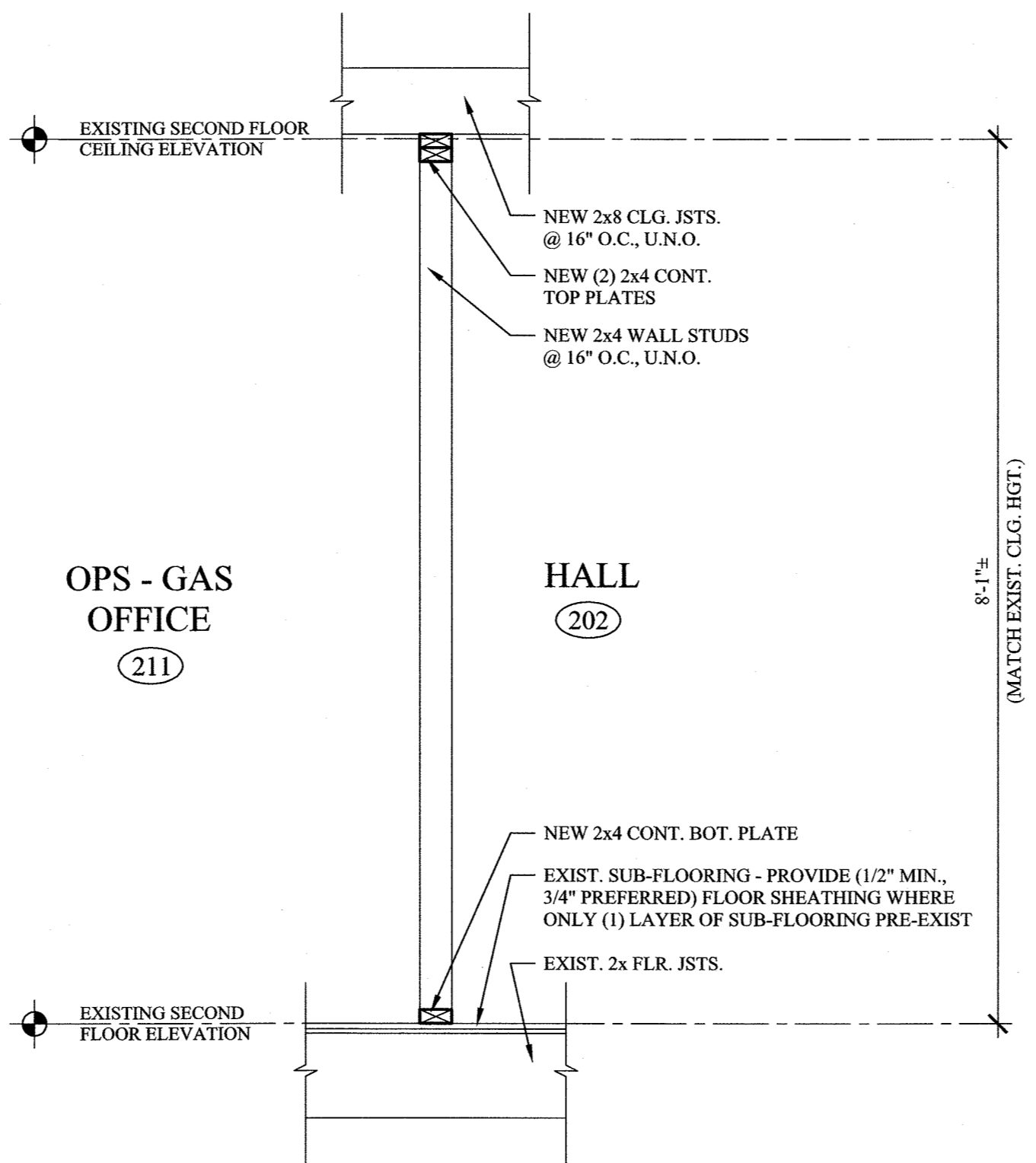
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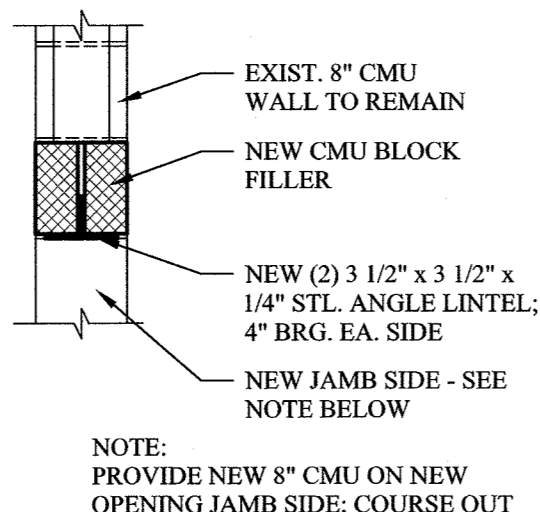
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201
S2.1 TYPICAL PARTIAL STRUCTURAL WALL SECTION
SCALE: 3/4" = 1'-0"



200
S2.1 TYPICAL PARTIAL STRUCTURAL WALL SECTION
SCALE: 3/4" = 1'-0"



202
S2.1 HEADER SECTION
SCALE: 3/4" = 1'-0"

GENERAL STRUCTURAL NOTES:

- ENGINEER'S SEAL (WHEN REQUIRED) APPLIES ONLY TO STRUCTURAL COMPONENTS INCLUDING ROOF RAFTERS, HIPs, VALLEYS, RIDGES, FLOORS, WALLS, BEAMS AND HEADERS, COLUMNS, CANTILEVERS, OFFSET LOAD BEARING WALLS, PIER & GIRDER SYSTEM AND FOOTING.
- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA STATE CODE - 2018 EDITION, PLUS ALL LOCAL CODES AND REGULATIONS. THE STRUCTURAL ENGINEER AND DESIGNER WILL NOT BE RESPONSIBLE FOR AND WILL NOT HAVE CONTROL OF CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OF PROCEDURES, SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK; NOR WILL THE ENGINEER AND DESIGNER BE RESPONSIBLE FOR THE G.C. FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT AND BUILDING CODE DOCUMENTATION.

DESIGN LOADS (RECOMMENDED)	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION (LL)
ALL ROOMS ON FIRST FLOOR	50	10	L/360
ALL ROOMS ON SECOND FLOOR	50	10	L/360
ATTIC WITH STORAGE	20	10	L/240
ATTIC WITH-OUT STORAGE	10	10	L/360
STAIRS	50	--	L/360
EXTERIOR BALCONIES	50	10	L/480
DECKS	50	10	L/480
GUARDRAILS AND HANDRAILS	200	--	--
PASSENGER VEHICLE GARAGES	50	10	L/360
FIRE ESCAPES	50	10	L/360
SNOW	20	--	--
WIND LOAD	(BASED ON 115 MPH WIND VELOCITY & EXPOSURE B)		

- ALL SAFETY REGULATIONS TO BE FOLLOWED STRICTLY. METHODS OF CONSTRUCTION AND ERECTION OF STRUCTURAL MATERIAL IS CONTRACTORS RESPONSIBILITY.

FOUNDATIONS:

- ALLOWABLE SOIL PRESSURE ASSUMED 2000 PSI MINIMUM TO BE VERIFIED WITH LOCAL AND STATE JURISDICTIONS.
- FOOTINGS SHALL BE CARRIED TO LOWER ELEVATIONS THAN THOSE SHOWN ON THE DRAWINGS IF REQUIRED TO REACH FIRM SOIL.
- COMPACT ALL FILL UNDER BUILDING TO 98% MAXIMUM DENSITY AS DETERMINED BY ASTM D698. PLACE IN LAYERS 9" MAXIMUM LOOSE THICKNESS. VERIFY FIELD DENSITY, ASTM D1556, WITH ONE TEST PER 2000 SQ.FT. PER LAYER.

STRUCTURAL MASONRY:

- LOAD BEARING PIERS OR WALLS, FOUNDATION WALLS AND ANY OTHER MASONRY SO DESIGNATED ON DRAWINGS ARE CONSIDERED HERE TO BE STRUCTURAL MASONRY.
- COMPRESSIVE STRENGTH OF MASONRY UNITS:
SOLID CLAY UNITS 8000 PSI
CONCRETE UNITS 2000 PSI ON NET AREA
- MORTAR - TYPE 'S' ASTM C270.
- GROUT FOR REINFORCED MASONRY - FINE GROUT ASTM C476. MINIMUM 28 DAY COMPRESSIVE STRENGTH - 3000 PSI. MAXIMUM HEIGHT TO WHICH MASONRY SHALL BE LAID BEFORE FILLING IS 5 FT. PROVIDE CLEANOUT OPENINGS AT THE BOTTOM OF EACH GROUT LIFT. CLEANOUT OPENINGS SHALL BE PROVIDED AT EACH CELL TO BE FILLED WITH GROUT.
- REINFORCING GRADE AND DETAILS AS FOR CONCRETE. TIE IN POSITION AND PLACE CONCRETE AROUND REINFORCING DURING CONSTRUCTION OF MASONRY. DO NOT PUSH REINF. DOWN INTO PREVIOUSLY PLACED GROUT FILL. SET BOLTS SIMILARLY. TIE WYTHES WITH HORIZONTAL REINF. AS SPECIFIED.

CONCRETE:

- CONCRETE COMPRESSIVE STRENGTH IN 28 DAYS AIR ENTRAINMENT PER TABLE 402.2:
ALL CONCRETE 3000 PSI
SLUMP 5" MAX.
- REINFORCING: ASTM A615 - STIRRUPS AND TIES GRADE 40 - ELSEWHERE GRADE 60, U.N.O. ALL REINF. TO BE WELDABLE GRADE WHERE WELDING SHOWN ON DRAWINGS.
- CLEAR DISTANCE FROM FACE OF CONCRETE TO MAIN STEEL:
CAST-IN-PLACE CONCRETE: 3/4"
FOOTINGS 3"
SLABS EXPOSED TO EARTH AND WEATHER 1 1/2"
- STANDARD - WELDED WIRE MESH IN ALL SLABS ON GROUND 1 1/2" FROM TOP OF SLAB:
4" SLAB 6x6 - W14 x W14; U.N.O.
6" SLAB 6x6 - W4.0 x W4.0; U.N.O.
UNLESS NOTED OTHERWISE
OPTIONAL - FIBERGLASS IMPREGNATED IN CONCRETE IN LIEU OF STANDARD WIRE MESH. G.C. SHALL PROVIDE SELECTION OF STANDARD OR OPTIONAL CONCRETE REINFORCING.

WOOD:

- ALLOWABLE STRESSES AND GRADES FOR TIMBER FRAMING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE 'NATIONAL DESIGN SPECIFICATION STRESS-GRADE LUMBER AND ITS FASTENINGS' AS RECOMMENDED BY THE NATIONAL FOREST PRODUCTS ASSOCIATION. THE DESIGN OF ANY AND ALL TIMBER-FRAMING SHALL BE BY OTHERS.
- ALL FRAMING - SYP, NO. 2, (Fb = 875 PSF) UNLESS NOTED OTHERWISE (UNO).
TRUSSES - AS REQUIRED BY DESIGN
TJS & LVL'S - AS REQUIRED BY DESIGN
- FABRICATE AND DESIGN ROOF TRUSSES IN ACCORDANCE WITH THE LATEST EDITION OF 'DESIGN SPECIFICATIONS FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES' TPI OF THE TRUSS PLATE INSTITUTE. SUBMIT DESIGN COMPUTATIONS AND SHOP DRAWINGS SEALED BY A N.C. PROFESSIONAL ENGINEER FOR APPROVAL.
- TRUSS DESIGN FOR THE FOLLOWING ROOF LOADS:
ATTIC ACCESS - PULldown STAIRS
LIVE LOAD - 20 PSF
TOP CHORD DEAD LOAD - 10 PSF
CEILING LOAD - 5 PSF
NET UPLIFT - 15 PSF
INSPECTION PORT ONLY
LIVE LOAD - 10 PSF
TOP CHORD DEAD LOAD - 5 PSF
CEILING LOAD - 5 PSF
NET UPLIFT - 15 PSF
- FABRICATE AND DESIGN ALL ENGINEERED LAMINATE VENEER LUMBER IN ACCORDANCE WITH THE LATEST STANDARD UNIVERSAL PRACTICES OF WOOD TRUSSES AND LVL'S. SUBMIT DESIGN COMPUTATIONS, SHOP DRAWINGS AND SEALED BY A N.C. PROFESSIONAL ENGINEER, (AS NECESSARY) L.V.L. SHALL BE LAMINATED VENEER LUMBER OR PARALLEL STRAND LUMBER (PSL) WITH THE MINIMUM FOLLOWING PROPERTIES: Fb = 2800 PSI, Fv = 285 PSI, E = 1,900,000 PSI. INSTALL ALL MATERIALS AND CONNECTIONS PER MANUFACTURERS INSTRUCTIONS. THE AWARDED GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR CONFIRMING AND CERTIFYING ALL ENGINEERED LUMBER SIZES PRIOR TO CONSTRUCTION UNLESS DIRECTED BY SEALED FRAMING PLANS AND DETAILS.
- THE POSITIVE AND NEGATIVE DESIGN PRESSURES REQUIRED FOR ANY ROOF OR WALL CLADDING APPLICATION NOT SPECIFICALLY ADDRESSED IN THE NORTH CAROLINA STATE CODE - 2009 EDITION SHALL BE AS FOLLOWS:
ROOF:
45.4 PSF - 2.25:12 PITCH OR LESS
34.8 PSF - 2.25:12 TO 7:12 PITCH
21 PSF - 7:12 TO 12:12 PITCH
WALLS:
24.1 PSF - WALLS
- THE POSITIVE AND NEGATIVE DESIGN PRESSURE FOR DOORS AND WINDOWS FOR A MEAN ROOF HEIGHT OF 35 FEET OR LESS SHALL BE 25 PSF.
- FLITCH BEAMS SHALL BE BOLTED TOGETHER USING 1/2" DIAMETER BOLTS (ASTM A307) WITH WASHERS PLACED UNDER THE ADJACENT END OF EACH. BOLTS SHALL BE SPACED AT 24" CENTERS (MAXIMUM) AND STAGGERED TOP AND AT BOTTOM OF BEAM (2" EDGE DISTANCE), WITH 2 BOLTS LOCATED AT 6" FROM EACH END.
- WALL BRACING: BRACED WALL PANELS SHALL BE CONSTRUCTED ACCORDING TO SECTION R602.10.3. THE AMOUNT AND LOCATION OF BRACING SHALL COMPLY WITH TABLE R602.10.3. THE LENGTH OF BRACED PANELS SHALL BE DETERMINED BY SECTION R602.10.4. LATERAL BRACING SHALL BE SATISFIED PER METHOD 3 BY CONTINUOUSLY SHEATHING WALLS WITH STRUCTURAL SHEATHING PER TABLE R602.3. NOTE THAT ANY SPECIFIC BRACED WALL DETAIL SHALL BE INSTALLED AS SPECIFIED.
- ALL WOODEN BEAMS AND HEADERS SHALL HAVE THE FOLLOWING END SUPPORTS: (1) 2x4 STUD COLUMN FOR 6'-0" MAX. BEAM SPAN, (2) STUDS FOR BEAM SPAN GREATER THAN 6'-0" (UNO). ALL BEARING HEADERS AND HEADERS OVER 6'-0" IN LENGTH SHALL BE (2) 2x10s (UNO). SEALED STRUCTURAL DRAWINGS SHALL SUPERCEDE THIS NOTE.
- PLUS A NUMBER SHOWN AT BEAM AND HEADER SUPPORTS DESIGNATES THE NUMBER OF SUPPORT STUDS REQUIRED IN STUD POCKET.

STRUCTURAL STEEL:

- STRUCTURAL STEEL BEAMS ASTM A992; PLATES, ANGLES, CHANNELS ASTM A36; STL. TUBE ASTM A500; STL. PIPE ASTM A53.
- DESIGN, FABRICATION, AND ERECTION: AISC SPECIFICATIONS FOR BUILDINGS.
- CONNECTIONS NOT DETAILED SHALL BE DESIGNED FOR LOADS SHOWN ON DRAWINGS OR FOR LOADS GIVEN IN STANDARD AISC LOAD TABLES FOR SPAN, SECTION, AND STRENGTH SPECIFIED. SHOP CONNECTIONS: WELDED. FIELD CONNECTIONS: 3/4" BOLT, ASTM A325. TIGHTEN TO A MINIMUM TORQUE OF 200 FT.-LBS. U.N.O.
- STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 1/2" INCHES AND FULL FLANGE WIDTH. PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED TO EACH SUPPORT WITH TWO LAG SCREWS (1/2" DIAMETER x 4" LONG). LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDING THE JOIST ARE TOE NAILED TO THE SOLE PLATE, AND SOLE PLATE IS NAILED OR BOLTED TO THE BEAM FLANGE @ 48" O.C.
- BRICK LINTELS SHALL BE 3 1/2"x3 1/2"x14" STEEL ANGLE FOR UP TO 6'-0" SPAN; 6"x4"x5/16" STEEL ANGLE WITH 6" LEG VERTICAL FOR SPANS UP TO 9'-0"; 7"x4"x3/8" STEEL ANGLE WITH 7" LEG VERTICAL FOR A MAX. 18'W. GARAGE DR. SPANS (UNO). AT ALL GARAGE DR. OPNGS. STEEL ANGLE TO BE LAGGED INTO WOOD HEADER USING 1/2" DIA. x 3 1/2" L. SCREWS, 18" STAGGERED.

INTERIOR RENOVATIONS FOR ROCKY MOUNT ENERGY RESOURCES OPERATION CTR. ROCKY MOUNT, NORTH CAROLINA

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NOTES / SECTIONS

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S2.1

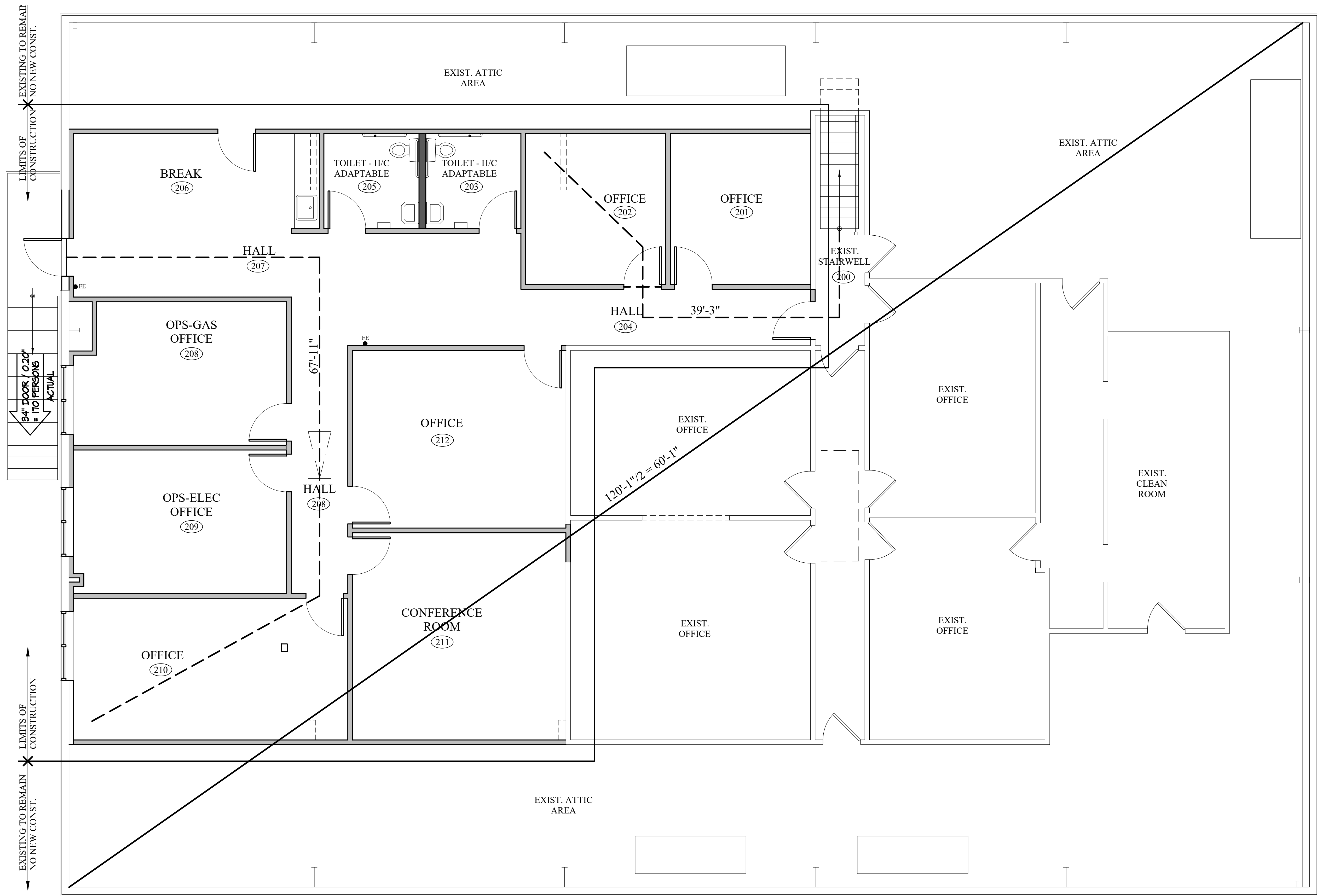


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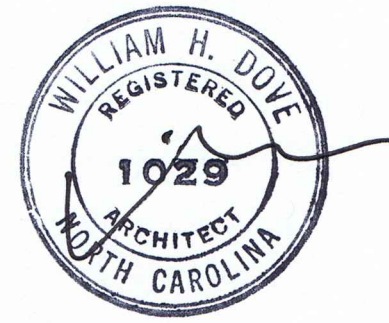


LIFE SAFETY PLAN - SECOND FLOOR

SCALE: 1/4" = 1'-0"

LIFE SAFETY NOTES:

1. ALL EXISTING TRAVEL DISTANCES, EXIT DISTANCES, ETC. OUTSIDE THE LIMITS OF CONSTRUCTION FOR THE NEW FITUP AREA OF THE BUILDING WILL REMAIN AS IS. NO CHANGES.
2. ALL EXISTING EXIT DOORS ARE TO REMAIN AS IS, INSIDE AND OUTSIDE OF THE LIMITS OF CONSTRUCTION. ALL EXISTING EXIT SIGNAGE AND EMERGENCY LIGHTING AT THE EXIST EGRESS DOORS ARE TO REMAIN AS IS; NO CHANGES.



08-01-22

INTERIOR RENOVATIONS FOR
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RESOURCES OPERATION CTR.
ROCKY MOUNT, NORTH CAROLINA

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LIFE SAFETY PLAN -
SECOND FLOOR

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LS1

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GENERAL DEMOLITION NOTES:

1.

THE CONTRACTOR SHALL VISIT AND FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND VERIFY EXISTING CONDITIONS. IF ANY EXISTING CONDITIONS VARY FROM INFORMATION INDICATED ON THE DRAWINGS, IT SHALL BE IN WRITTEN FORM AND GIVEN TO OWNER IMMEDIATELY.
2.

DEMOLITION SHOULD BE COORDINATED WITH CONSTRUCTION PLAN TO DETERMINE EXTENT OF WORK. THE DRAWINGS DO NOT NECESSARILY SHOW COMPLETE DEMOLITION WORK REQUIRED, BUT RATHER SHOWN INTENT OF DEMOLITION/CONSTRUCTION. DEMOLISH TO A POINT TO PROVIDE SUITABLE "BONDING"/"PATCHING" OF EXISTING WORK TO REMAIN WITH NEW WORK.
3.

THE CONTRACTOR SHALL CAREFULLY REMOVE ALL ITEMS, COORDINATED WITH OWNER TO BE SAVED. OWNER TO DIRECT CONTRACTOR ON LOCATION OF ANY SALVAGED ITEMS. CONTRACTOR TO TAKE EVERY EFFORT NOT TO DAMAGE ITEMS TO BE SALVAGED AND STORED.
4.

THE OWNER WILL BE RESPONSIBLE FOR RELOCATING THE EXISTING ELECTRIC METER AND OVERHEAD WIRING TO NEW LOCATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING A TIMELINE WITH THE OWNER ON THE RELOCATION OF THE METER. FROM THE METER INTO THE HOME, THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL THE NECESSARY COMPONENTS REQUESTED AND REQUIRED.
5.

SELECTIVE NON-STRUCTURAL DEMOLITION AS REQUIRED INCLUDES BUT IS NOT NECESSARILY LIMITED TO THE FOLLOWING EXISTING CONSTRUCTION COMPONENTS:

A.

GYPSUM DRYWALL PARTITIONS AND CEILINGS.

B.

APPLIED FINISHES SUCH AS CARPET (COORDINATE WITH FINISH PLAN FOR EXTENT), VINYL COMPOSITION TILE, RESILIENT BASE (COORDINATE WITH FINISH PLAN FOR EXTENT), PAINTED COATINGS AND OTHER FINISHES ENCOUNTERED. REMOVE RESIDUE FROM ADHESIVES.

C.

HOLLOW METAL OR ALUMINUM FRAMES AND RELATED DOORS AND HARDWARE.

D.

NON-STRUCTURAL MISCELLANEOUS METALS FABRICATION AND RELATED WORK.

E.

ROUGH AND FINISH CARPENTRY AS NOTED. ALL CHAIR RAILING AND MOLDING TO BE REMOVED.

F.

ACCESS DOORS AND PANELS.

G.

DOMESTIC PLUMBING SYSTEM COMPONENTS SUCH AS FIXTURES, PIPING, VALVES AND OTHER CONTROLS. PIPE INSULATION, AND RELATED WORK. SEAL PENETRATIONS THROUGH SLAB TO BE ABANDONED, AS REQUIRED BY CODE.
- H.

ELECTRICAL POWER AND COMMUNICATION DISTRIBUTION SYSTEMS COMPONENTS SUCH AS WIRING AND CONDUIT, PANELS AND PANEL BOARDS, TERMINAL STRIPS, BACKBOARDS, JUNCTION AND PULL BOXES, SWITCHES AND OTHER CONTROLS. WIRING DEVICES AND RELATED WORK.
- J.

ELECTRICAL LIGHTING SYSTEMS INCLUDING LIGHT FIXTURES, SWITCHES AND RELATED WORK.
6.

PREPARE SURFACES AS REQUIRED TO RECEIVE NEW FINISHES.
7.

WHEN EXIST. MATERIALS AND FINISHES TO REMAIN ARE AT THE TRANSITION POINT TO MATERIALS AND FINISHES TO BE REMOVED, TAKE THE UTMOST CARE NOT TO DAMAGE THE ADJOINING SURFACE.
8.

CONTRACTOR TO CAREFULLY COORDINATE WITH OWNER AND PROVIDE A SCHEDULE / PROCEDURE FOR REMOVAL, AS SPECIFIED, AND CONSTRUCTION TO MINIMIZE THE EXPOSED HOME TO THE ELEMENTS. DISCUSS WITH OWNER ON PROTECTION PROCEDURES FOR THE CHANCE OF INCLEMENT WEATHER FOR THE PROTECTION OF THE BUILDING'S INTERIOR.

DEMOLITION KEY NOTES:

- 1

REMOVE LOCKERS AND PREPARE EXISTING SURFACE TO EITHER ACCEPT NEW COMPONENTS OR TO BE REFINISHED.
- 2

REMOVE EXISTING WINDOW GLAZING, FRAME, ETC. IN ITS ENTIRETY. PREPARE SURFACE AREA TO ACCEPT NEW WALL FRAMING.
- 3

CAREFULLY REMOVE EXISTING DOOR, FRAME, AND HARDWARE IN ITS ENTIRETY. PREPARE EXISTING OPENING FOR NEW DOOR ASSEMBLY.
- 4

REMOVE ALL GRAB BARS, SINK, AND TOILET FROM THIS AREA. PREPARE DEMOLISHED AREAS FOR NEW PLUMBING FIXTURES AND ASSEMBLY.
- 5

CAREFULLY REMOVE EXISTING DOOR AND PORTION OF WALL AS SHOWN TO ACCEPT NEW DESIGN.
- 6

CAREFULLY REMOVE EXISTING DOOR, FRAME, AND HARDWARE IN ITS ENTIRETY. PREPARE EXISTING OPENING FOR NEW WALL STRUCTURE.
- 7

CAREFULLY REMOVE OFFICE SPACES AS SHOWN PER FLOOR PLANS. PREPARE AREA AS NECESSARY FOR NEW CONSTRUCTION - REFER TO FLOOR PLANS FOR INTENT ON NEW CONSTRUCTION PURPOSES.
- 8

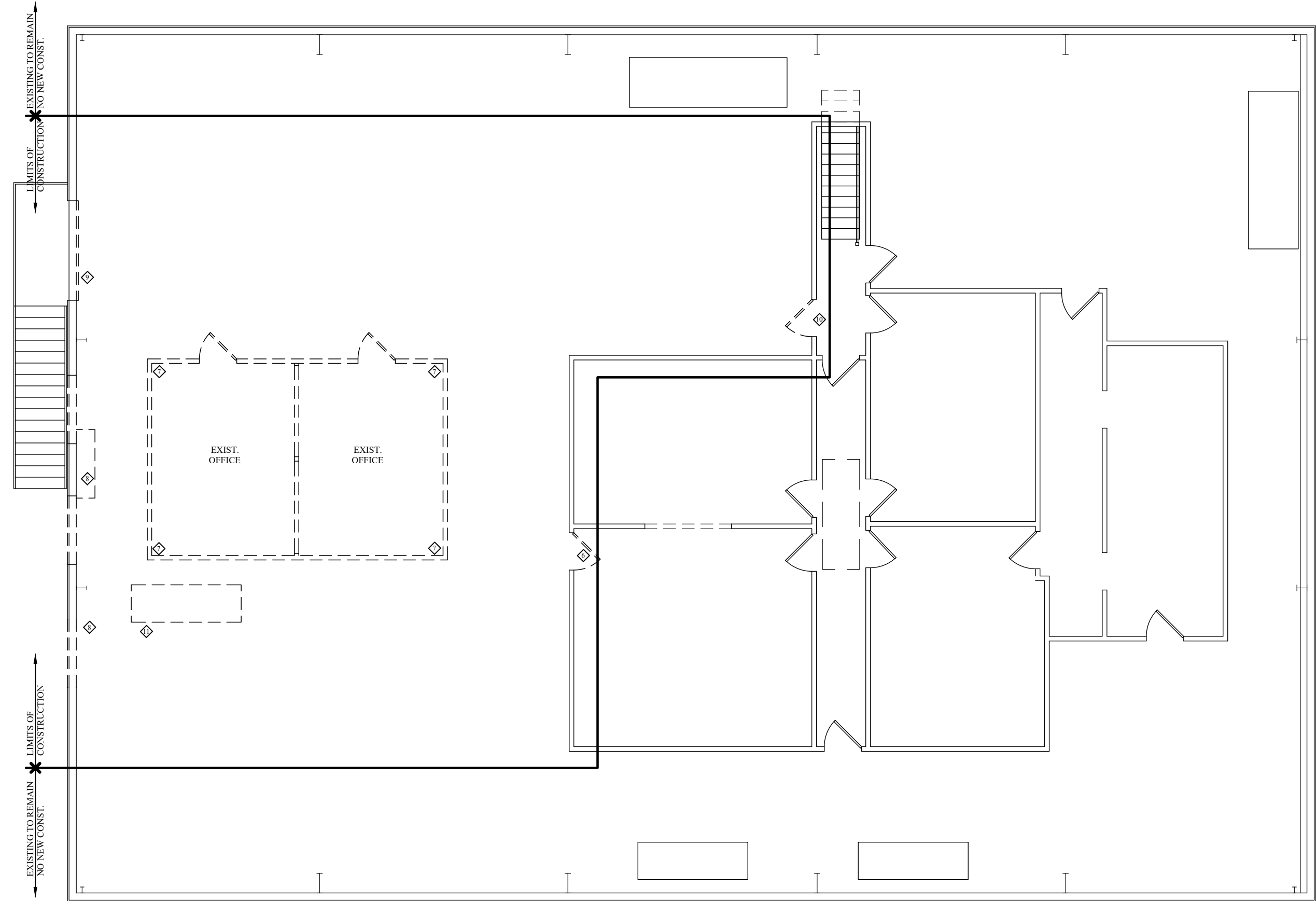
CAREFULLY REMOVE EXISTING PORTIONS OF WALL STRUCTURE AND PREPARE FOR THE NEW INSTALLATION OF WINDOW ASSEMBLY AS INTENDED AND SHOWN PER PLANS
- 9

CAREFULLY REMOVE EXISTING PORTIONS OF WALL STRUCTURE AND PREPARE FOR THE NEW INSTALLATION OF DOOR ASSEMBLY AS INTENDED AND SHOWN PER PLANS
- 10

CAREFULLY REMOVE EXISTING PORTIONS OF WALL STRUCTURE AND EXIST. DOOR TO ACCEPT NEW INSTALLATION OF DOOR ASSEMBLY AS INTENDED.
- 11

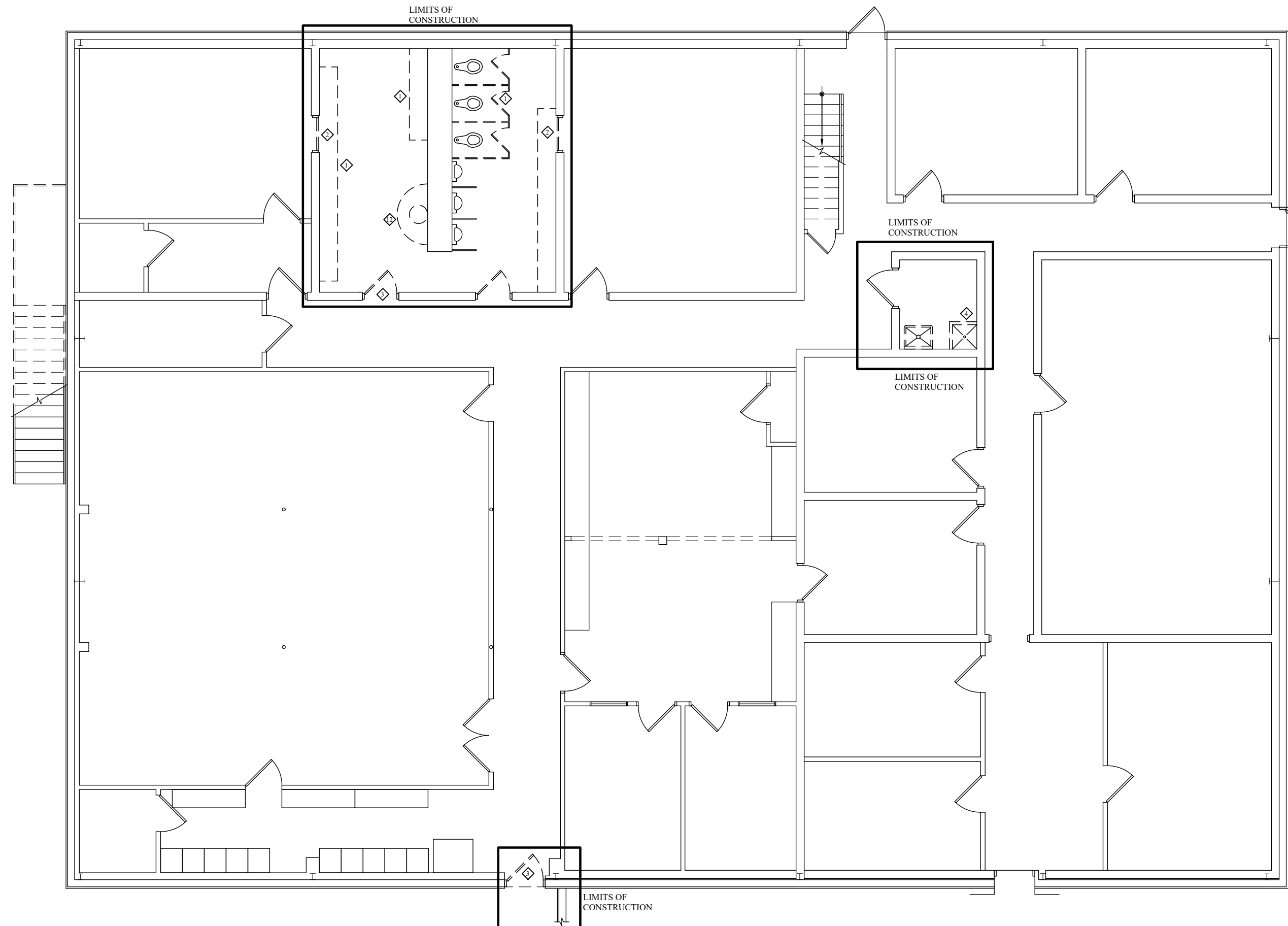
EXISTING HVAC UNIT (REMOVED PRIOR TO CONSTRUCTION) - NOT IN THIS CONTRACT.
- 12

REMOVE EXISTING SINK AND SINK ASSEMBLY IN ITS ENTIRETY. PREPARE NEW AREA FOR NEW PLUMBING CONSTRUCTION - SEE PLANS



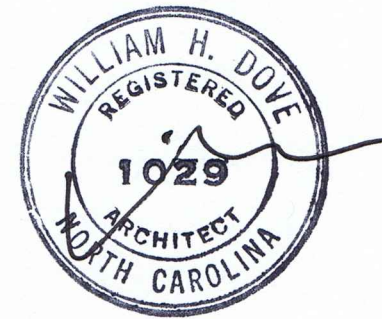
DEMOLITION PLAN - SECOND FLOOR

SCALE: 1/8" = 1'-0"



DEMOLITION PLAN - FIRST FLOOR

SCALE: 1/8" = 1'-0"



08-01-22

INTERIOR RENOVATIONS FOR
ROCKY MOUNT ENERGY
RESOURCES OPERATION CTR.
ROCKY MOUNT, NORTH CAROLINA

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DEMOLITION PLANS

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D1.1

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FIRST FLOOR PLAN

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A1.1

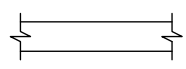
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NOTE:

REFER TO SHEET A3.1 FOR GENERAL NOTES

WALL LEGEND



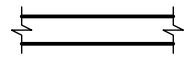
EXISTING WALLS, DOORS, ELEMENTS
TO REMAIN AS IS; U.N.O.



NEW 2x4 WOOD STUDS @ 16" O.C.,
W/ (1) LAYER OF 1/2" GYPSUM
WALLBOARD ON EACH SIDE



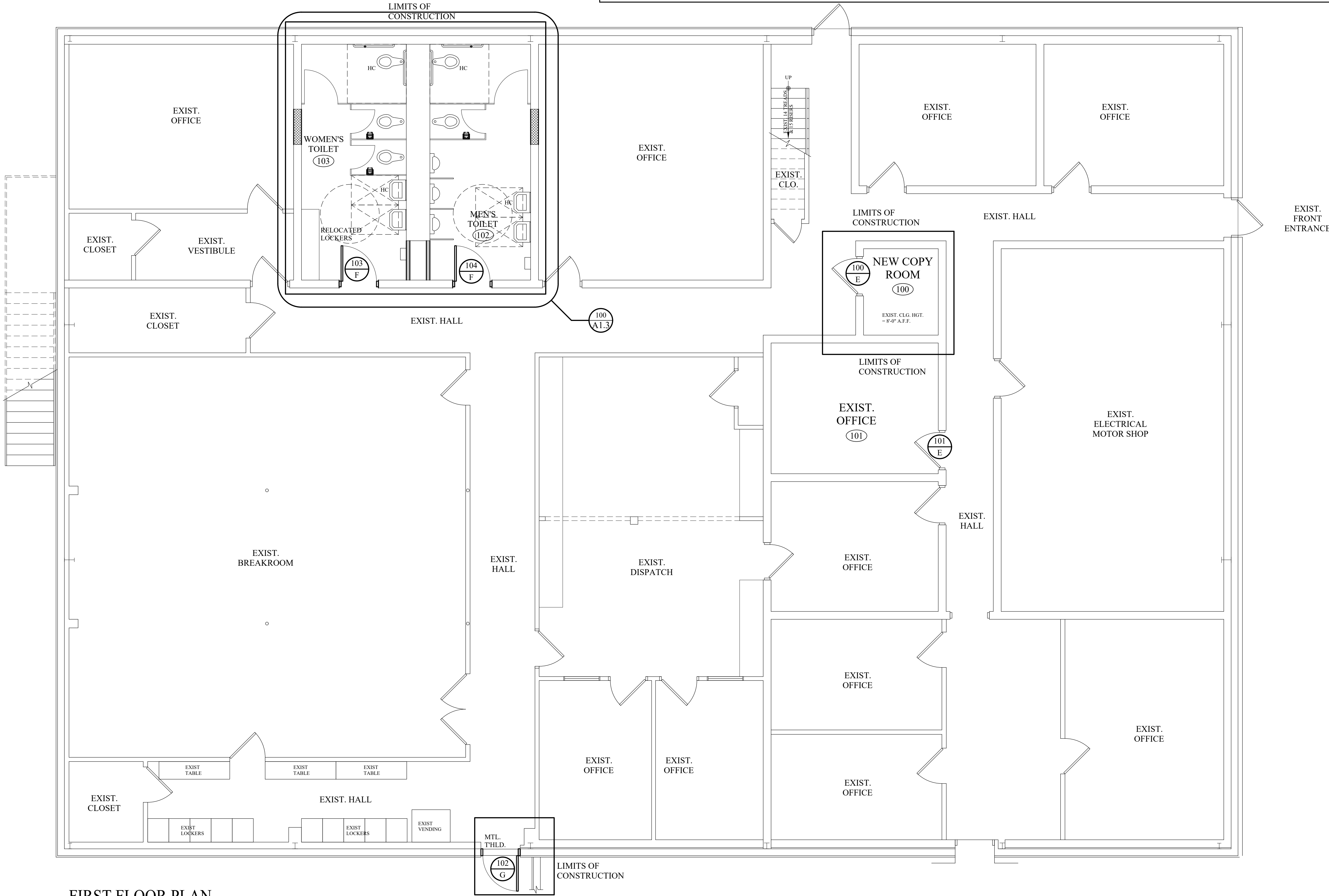
NEW 2x4 WOOD STUDS @ 16" O.C., W/ (1)
LAYER OF 1/2" GYPSUM WALLBOARD ON
FINISHED (PUBLIC) SIDE ONLY.



NEW 6" 20 ga. MTL STUDS @ 16" O.C., W/ (1)
LAYER OF 1/2" EXTERIOR FIBERGLASS
MAT GYPSUM SHEATHING BOARD

NOTES:

- ALL INTERIOR WALL DIMENSIONS
ARE THE CENTER OF THE NEW
WALL STUDS.
- PROVIDE R-19 EXTERIOR WALL
INSULATION AS REQUIRED BY
CODE.



FIRST FLOOR PLAN

SCALE: 1/4" = 1'-0"

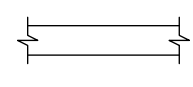
7,014 EXISTING SQ.FT.

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NOTE:

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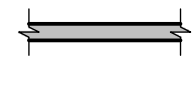
WALL LEGEND



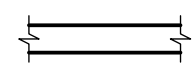
EXISTING WALLS, DOORS, ELEMENTS TO REMAIN AS IS; U.N.O.



NEW 2x4 WOOD STUDS @ 16" O.C., W/ (1) LAYER OF 1/2" GYPSUM WALLBOARD ON EACH SIDE



NEW 2x4 WOOD STUDS @ 16" O.C., W/ (1) LAYER OF 1/2" GYPSUM WALLBOARD ON FINISHED (PUBLIC) SIDE ONLY.



NEW 6" 20 ga. MTL STUDS @ 16" O.C., W/ (1) LAYER OF 1/2" EXTERIOR FIBERGLASS MAT GYPSUM SHEATHING BOARD

NOTES:

- ALL INTERIOR WALL DIMENSIONS ARE THE CENTER OF THE NEW WALL STUDS.
- PROVIDE R-19 EXTERIOR WALL INSULATION AS REQUIRED BY CODE.



08-01-22

INTERIOR RENOVATIONS FOR ROCKY MOUNT ENERGY RESOURCES OPERATION CTR. ROCKY MOUNT, NORTH CAROLINA

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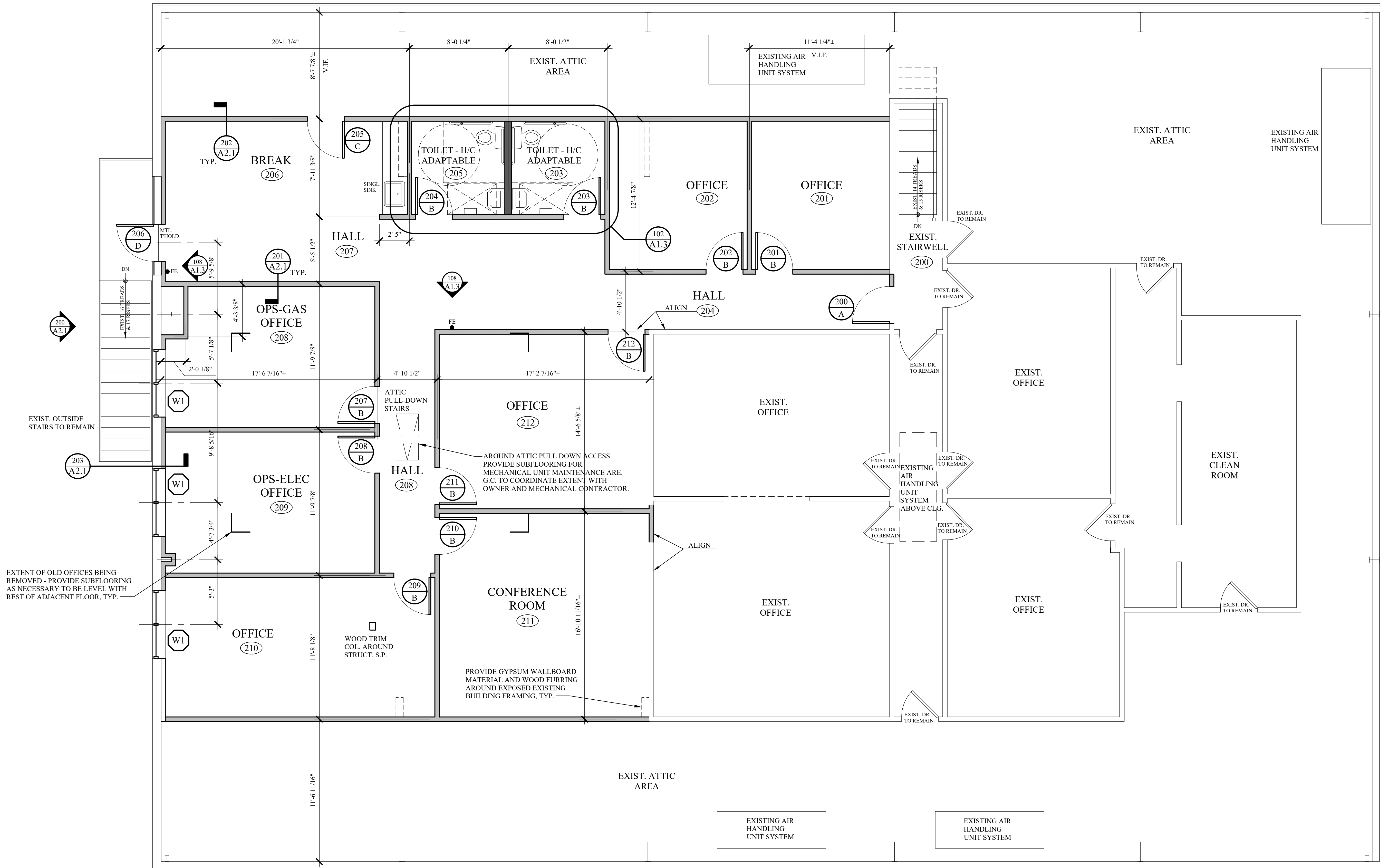
SECOND FLOOR PLAN

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A1.2

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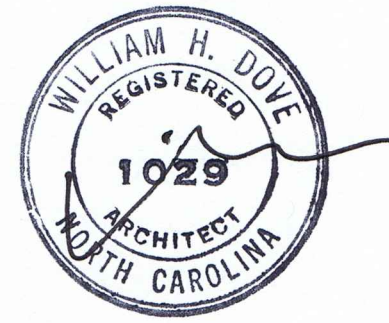
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SECOND FLOOR PLAN

SCALE: 1/4" = 1'-0"

2,102 EXISTING SQ.FT.
1,892 NEW SQ.FT.



08-01-22

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ROCKY MOUNT, NORTH CAROLINA

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REVISIONS

PROJECT # 22-06

DATE
AUGUST 2022

DRAWN BY
WDS

CHECKED BY
WHM

DRAWING TITLE
**PLAN ENLARGEMENTS /
DETAILS**

9 of 24

A1.3

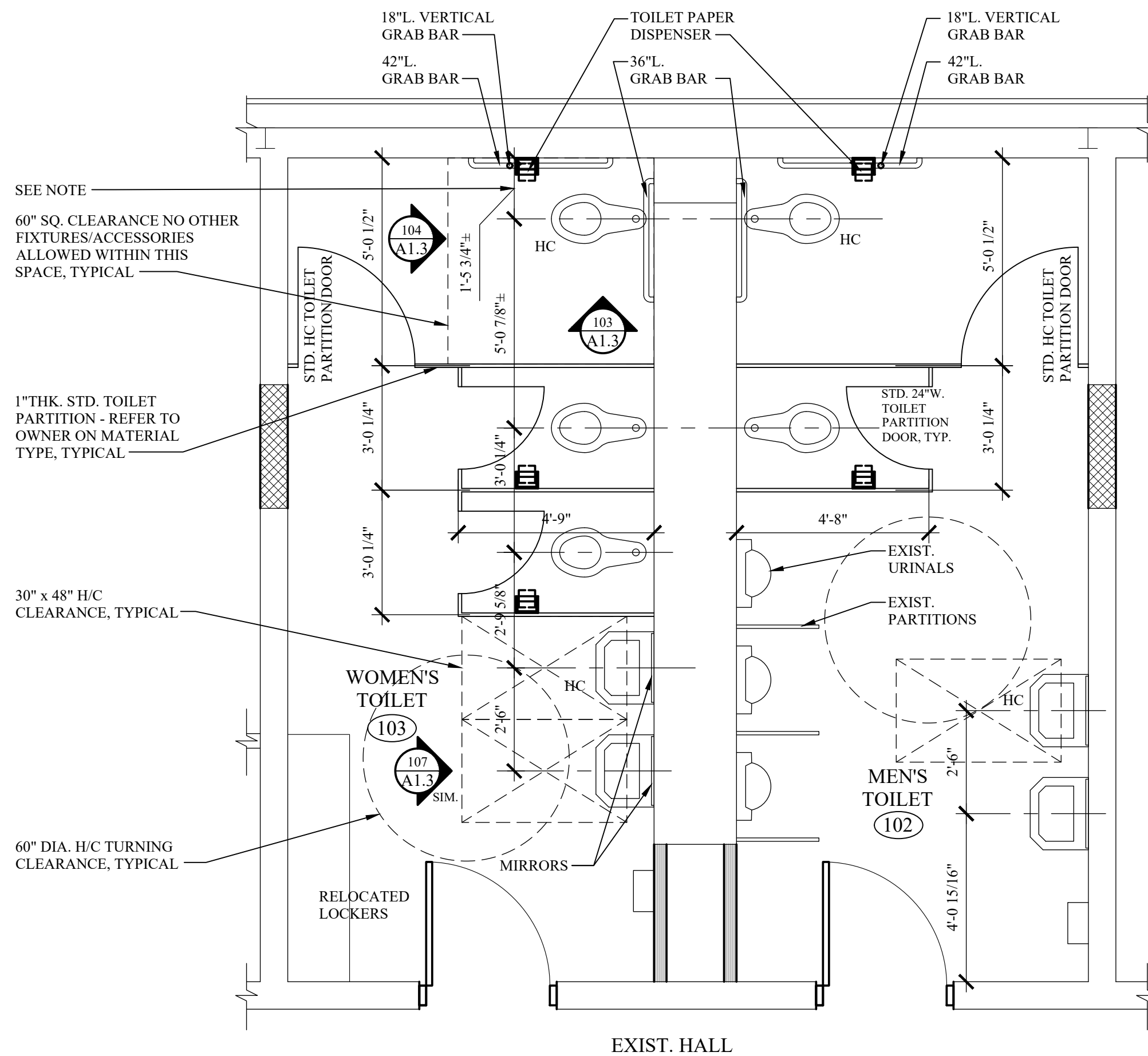
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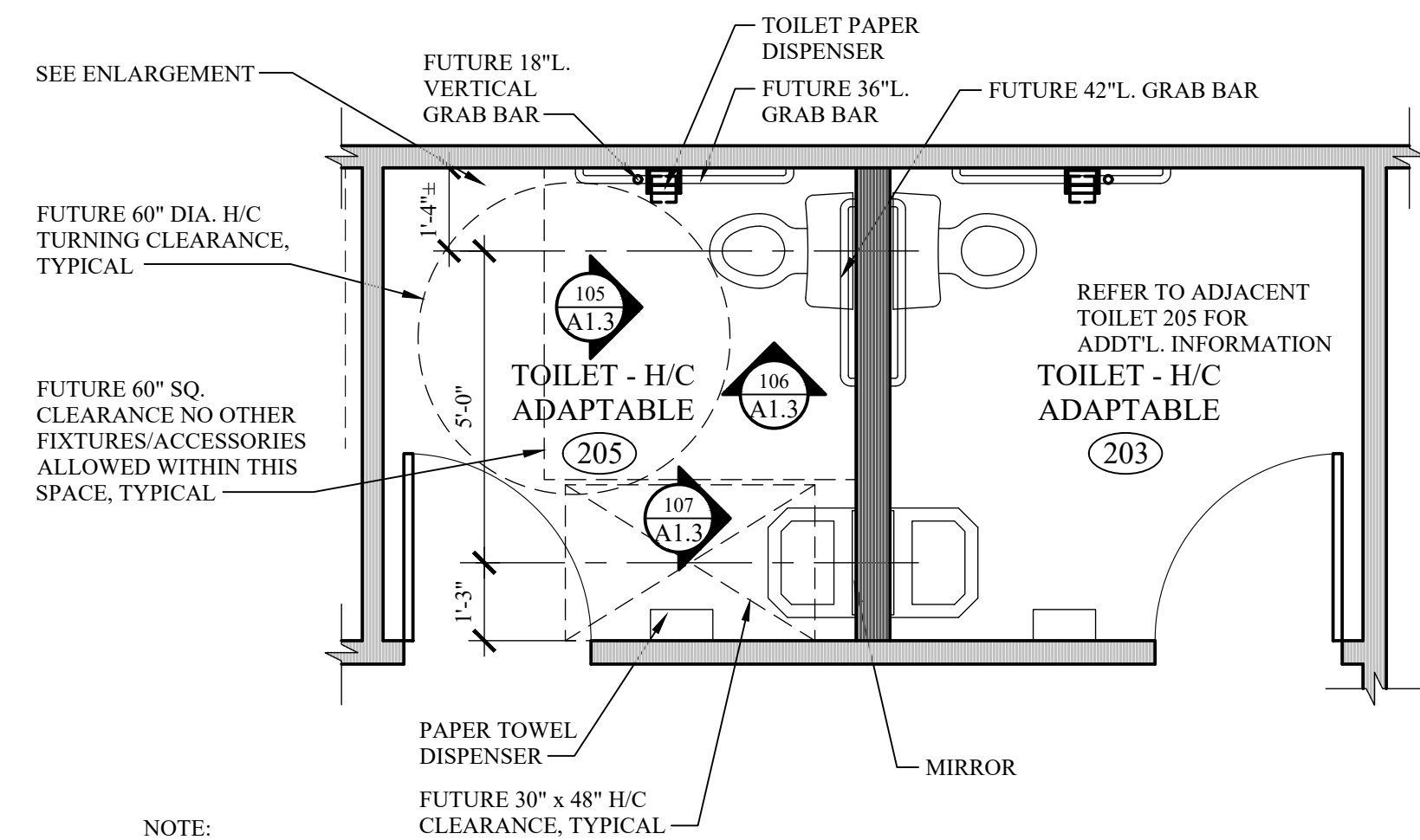
GENERAL NOTES:

TOILET ROOMS AND FIXTURES

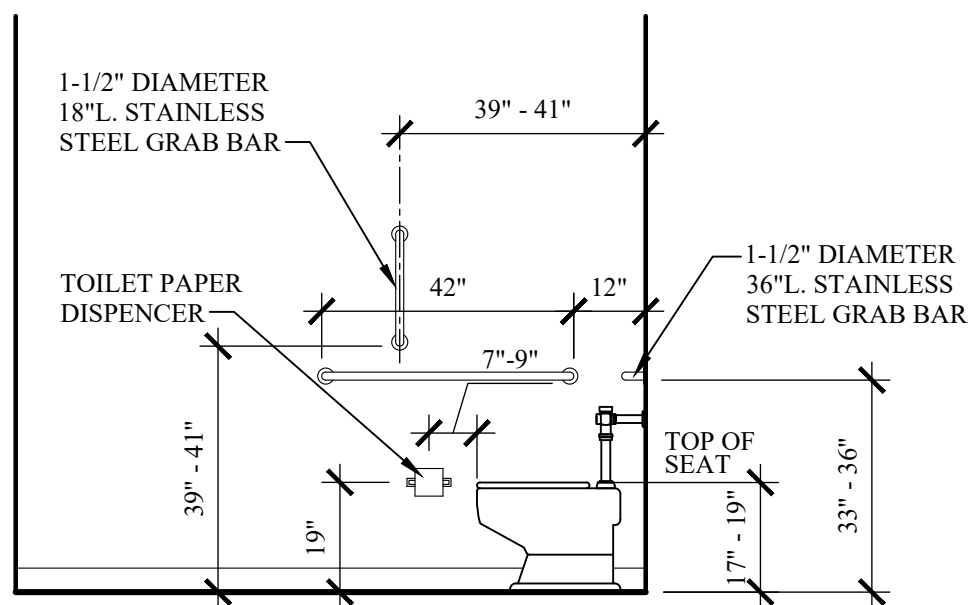
- TOILET ELEVATION SHOWN IS A STANDARD REPRESENTATION. ACTUAL SINGLE TOILET DIMENSIONS WILL VARY AND NECESSARY ADJUSTMENTS SHOULD BE MADE TO ACCOMMODATE.
- ALL FIXTURES TO BE ADA COMPLIANT AND INSTALLED PER ADA REQUIREMENTS
- PROVIDE 2X BLOCKING FOR INSTALLATION OF ALL ACCESSORIES- PROVIDE BLOCKING FOR ANY FUTURE ACCESSORIES AS NOTED
- ALL DIMENSIONS ON THIS SHEET UNDERSTOOD TO BE "CLEAR" TO FINISH.
- ALL FLOOR, BASE, WALL, AND CEILING FINISHES SHALL BE DIRECTED BY OWNER. ALL FINISHES INDICATED ON THIS AND ALL PAGES REQUIRED COORDINATION WITH OWNER.
- ALL TOILET ACCESSORIES AND FIXTURES INDICATED IN DETAILS ARE OF ADA REQUIRED REPRESENTATION ONLY. FLOOR PLANS AND ENLARGED PLANS SHALL DIRECT G.C. ON LAYOUT AND LOCATIONS OF ALL TOILET ACCESSORIES, FIXTURES, PARTITIONS, ETC.
- G.C. TO PATCH / REPAIR / PAINT ALL EXISTING WALLS THAT ARE DAMAGED DURING CONSTRUCTION FOR NEW FIXTURES AND AT OLD FIXTURES REMOVED.



**100
A1.3** PLAN ENLARGEMENT - TOILET ROOMS
SCALE: 3/8" = 1'-0"

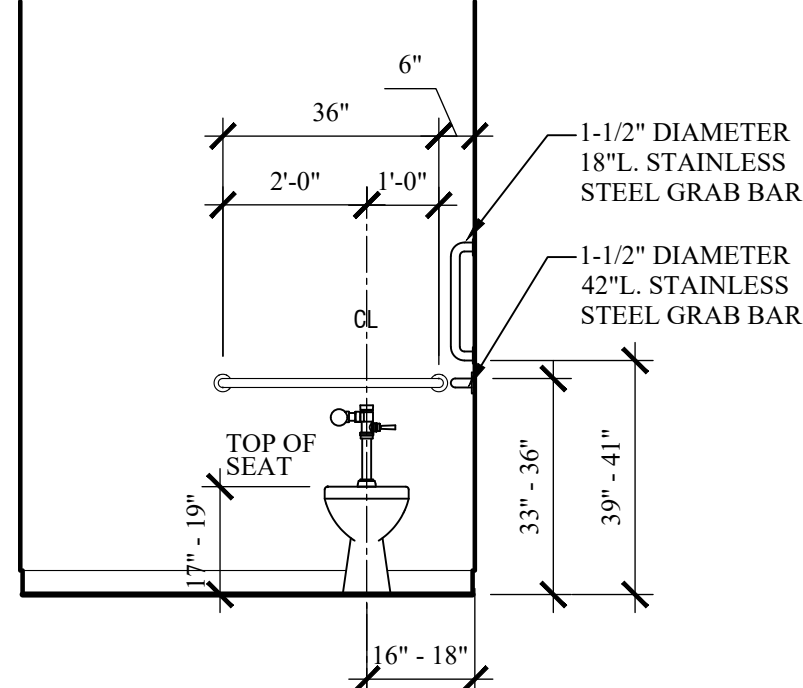


**102
A1.3** PLAN ENLARGEMENT - NEW TOILETS
SCALE: 3/8" = 1'-0"



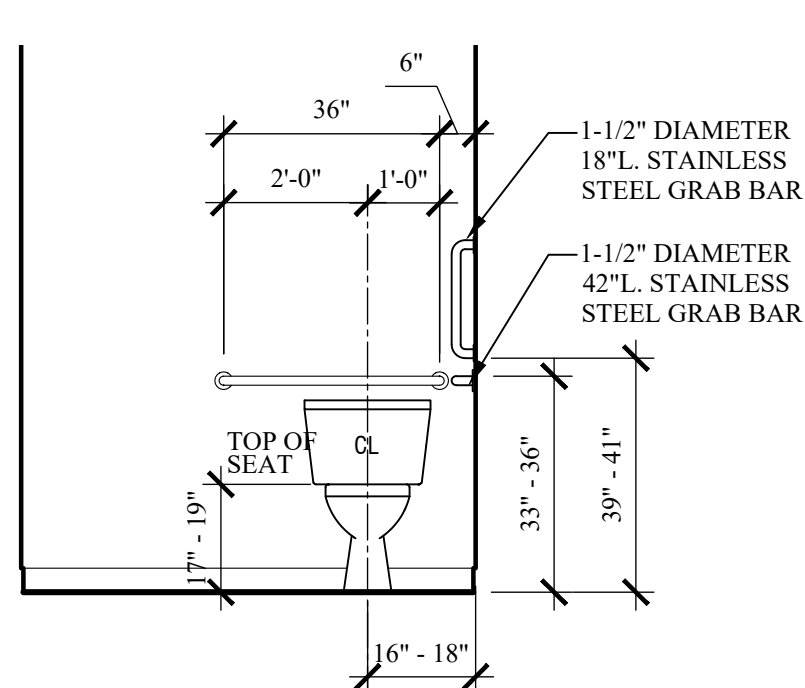
NOTE:
RANGES INDICATED ARE REPRESENTED AS
MINIMUM TO MAXIMUM DIMENSIONS.
REFER TO FLOOR PLAN FOR EXACT ORIENTATION.

**103
A1.3** H/C TOILET W/ FLUSH
VALVE ENLARGEMENT
SCALE: 3/8" = 1'-0"



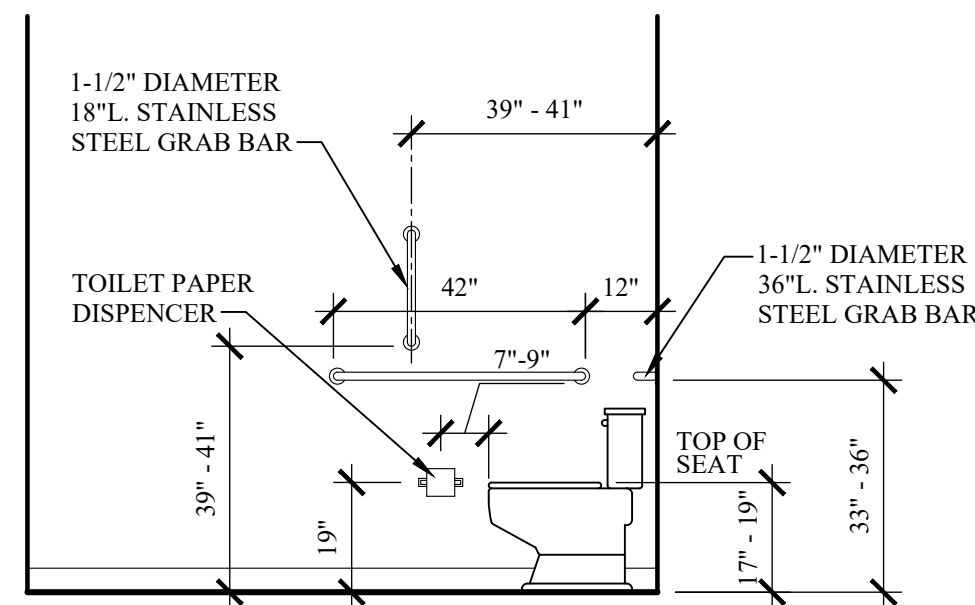
NOTE:
RANGES INDICATED ARE TO BE REPRESENTED AS
MINIMUM TO MAXIMUM DIMENSIONS.

**104
A1.3** H/C TOILET W/ FLUSH
VALVE ENLARGEMENT
SCALE: 3/8" = 1'-0"



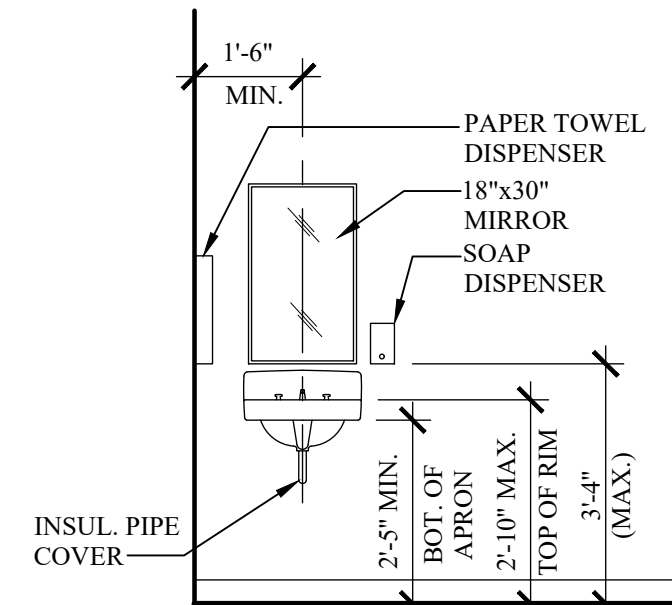
NOTE:
RANGES INDICATED ARE TO BE REPRESENTED AS
MINIMUM TO MAXIMUM DIMENSIONS.

**105
A1.3** H/C TOILET W/ TANK
ENLARGEMENT
SCALE: 3/8" = 1'-0"

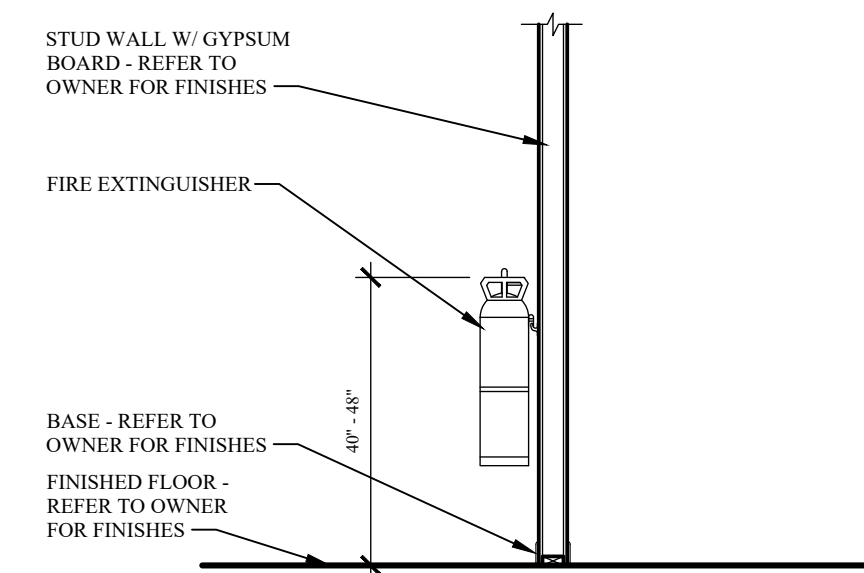


NOTE:
RANGES INDICATED ARE REPRESENTED AS
MINIMUM TO MAXIMUM DIMENSIONS.
REFER TO FLOOR PLAN FOR EXACT ORIENTATION.

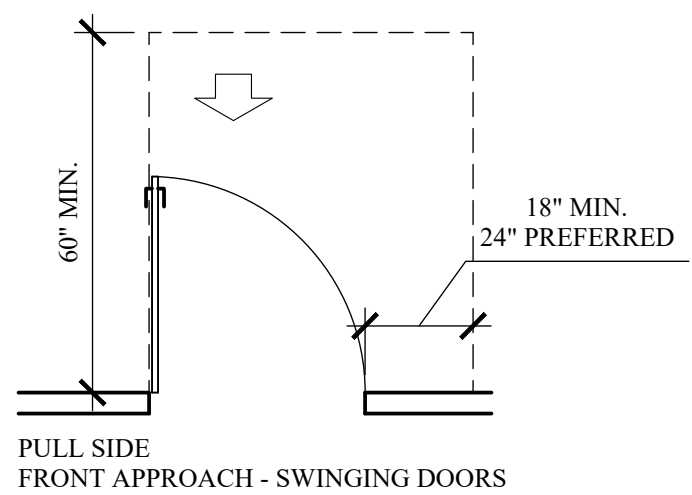
**106
A1.3** H/C TOILET W/ TANK
ENLARGEMENT
SCALE: 3/8" = 1'-0"



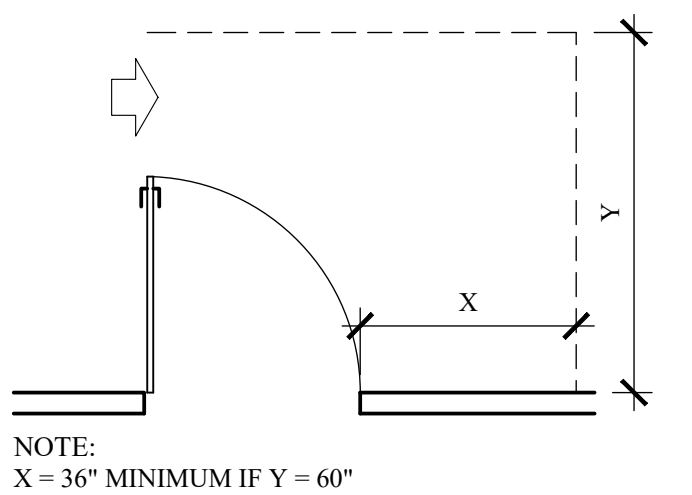
**107
A1.3** H/C LAVATORY
ELEVATION
SCALE: 3/8" = 1'-0"



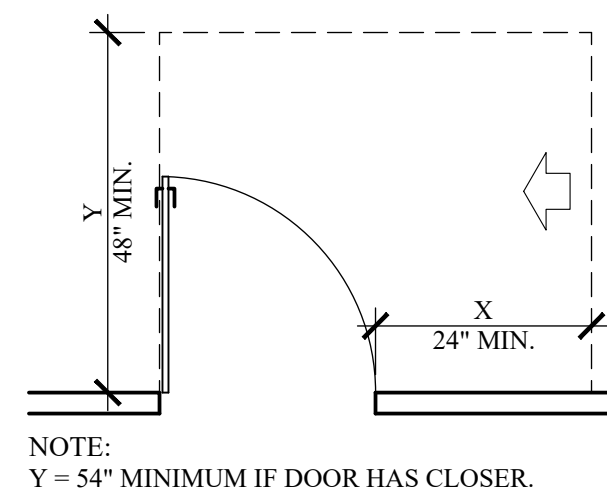
**108
A1.3** FIRE EXTINGUISHER DETAIL
SCALE: 3/8" = 1'-0"



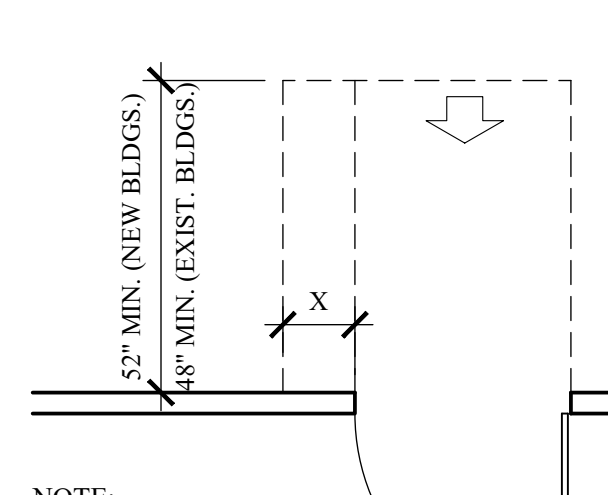
PULL SIDE
FRONT APPROACH - SWINGING DOORS



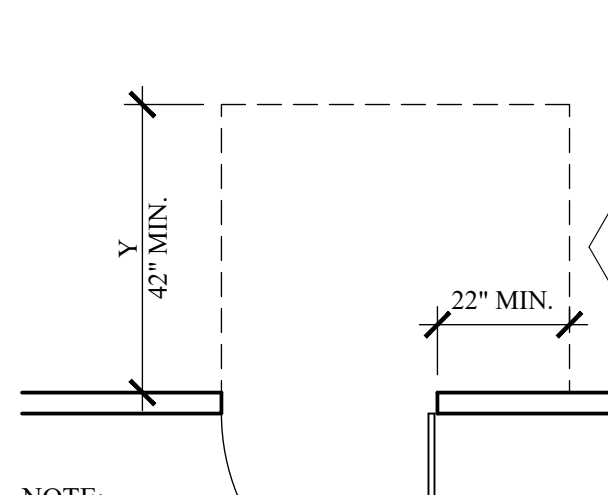
NOTE:
X = 36" MINIMUM IF Y = 60"
X = 42" MINIMUM IF Y = 54"
PULL SIDE
HINGE SIDE APPROACH - PULL SIDE
- SWINGING DOORS



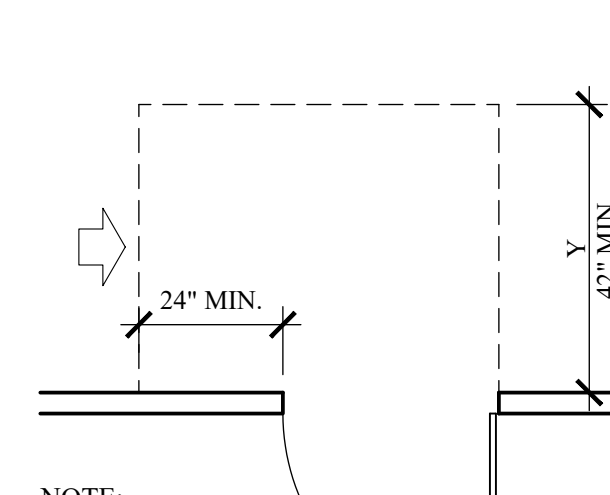
NOTE:
Y = 54" MINIMUM IF DOOR HAS CLOSER.
PULL SIDE
LATCH SIDE APPROACH - PULL SIDE
- SWINGING DOORS



NOTE:
X = 12" IF DOOR HAS BOTH
CLOSER AND LATCH
PUSH SIDE
FRONT APPROACHES - SWINGING DOORS

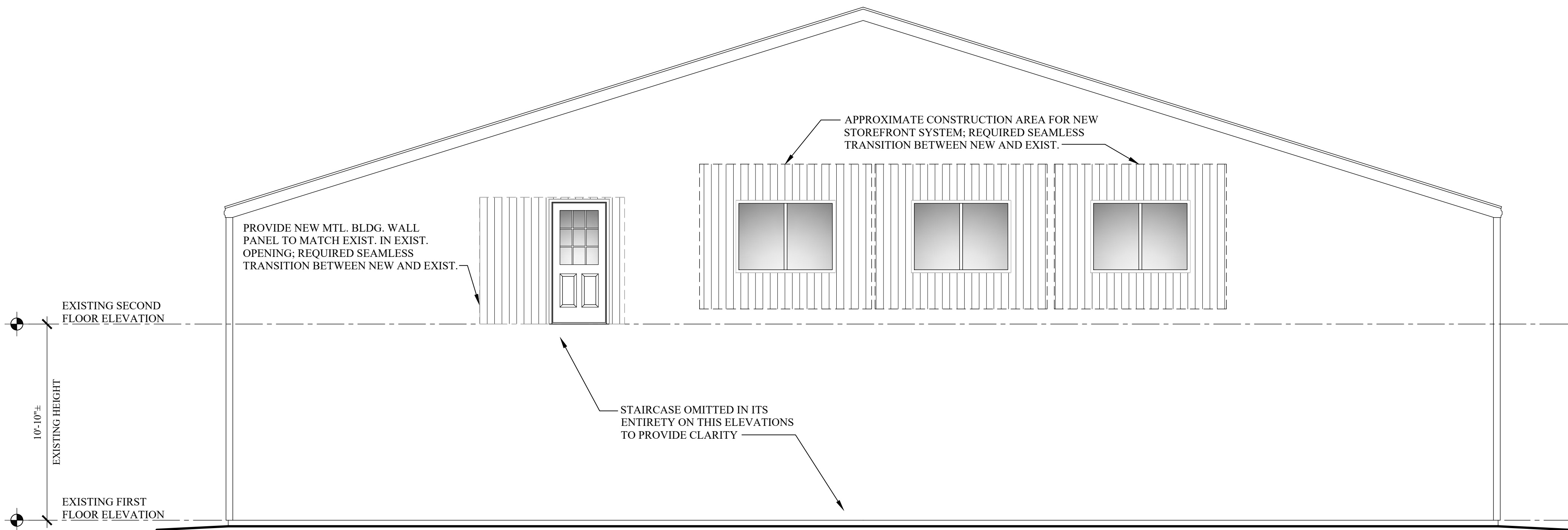


NOTE:
Y = 48" IF DOOR
HAS BOTH CLOSER
AND LATCH
PUSH SIDE
HINGE SIDE APPROACHES - SWINGING DOORS

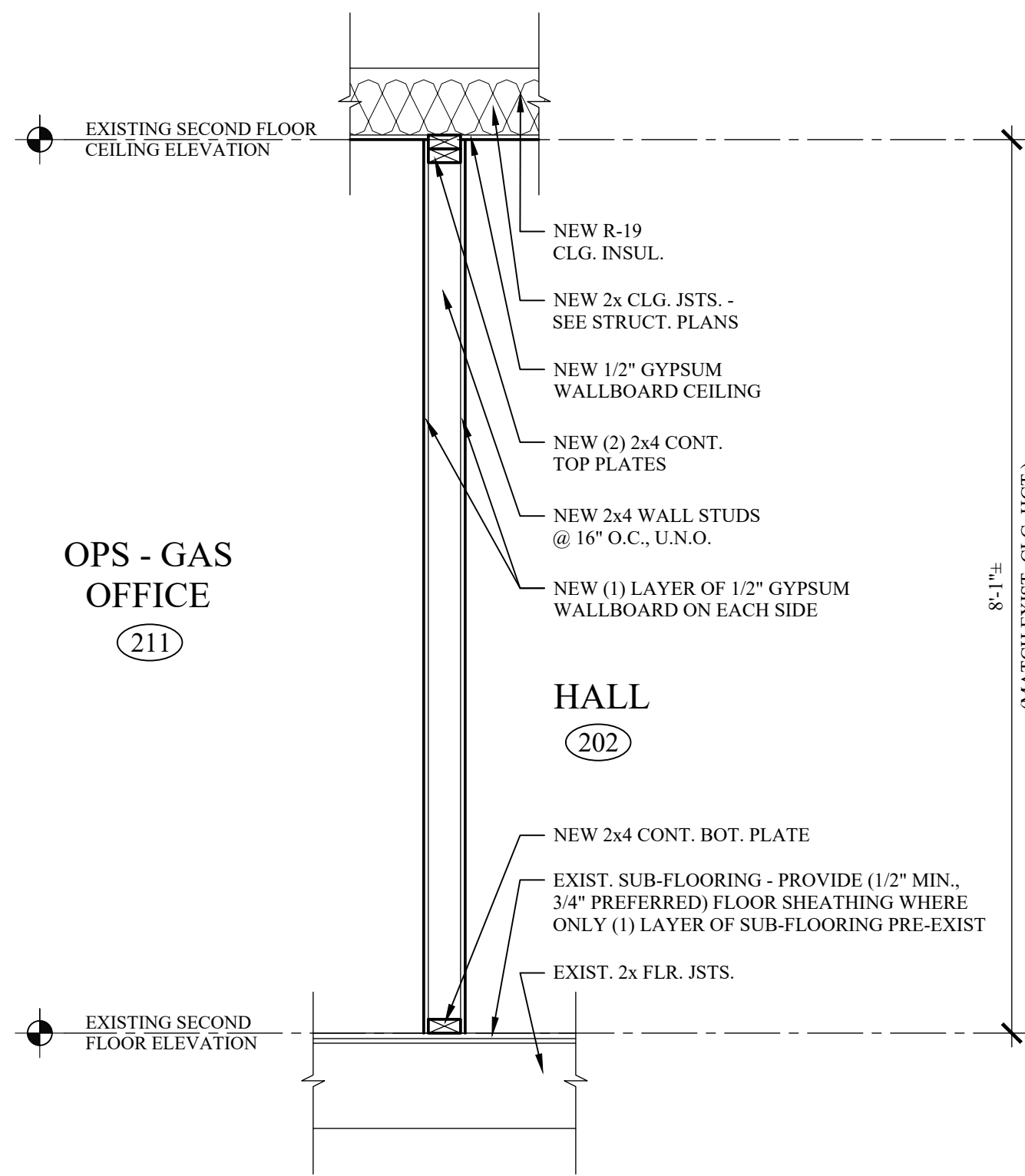


NOTE:
Y = 48" IF DOOR HAS
CLOSER
PUSH SIDE
LATCH SIDE APPROACHES - SWINGING DOORS

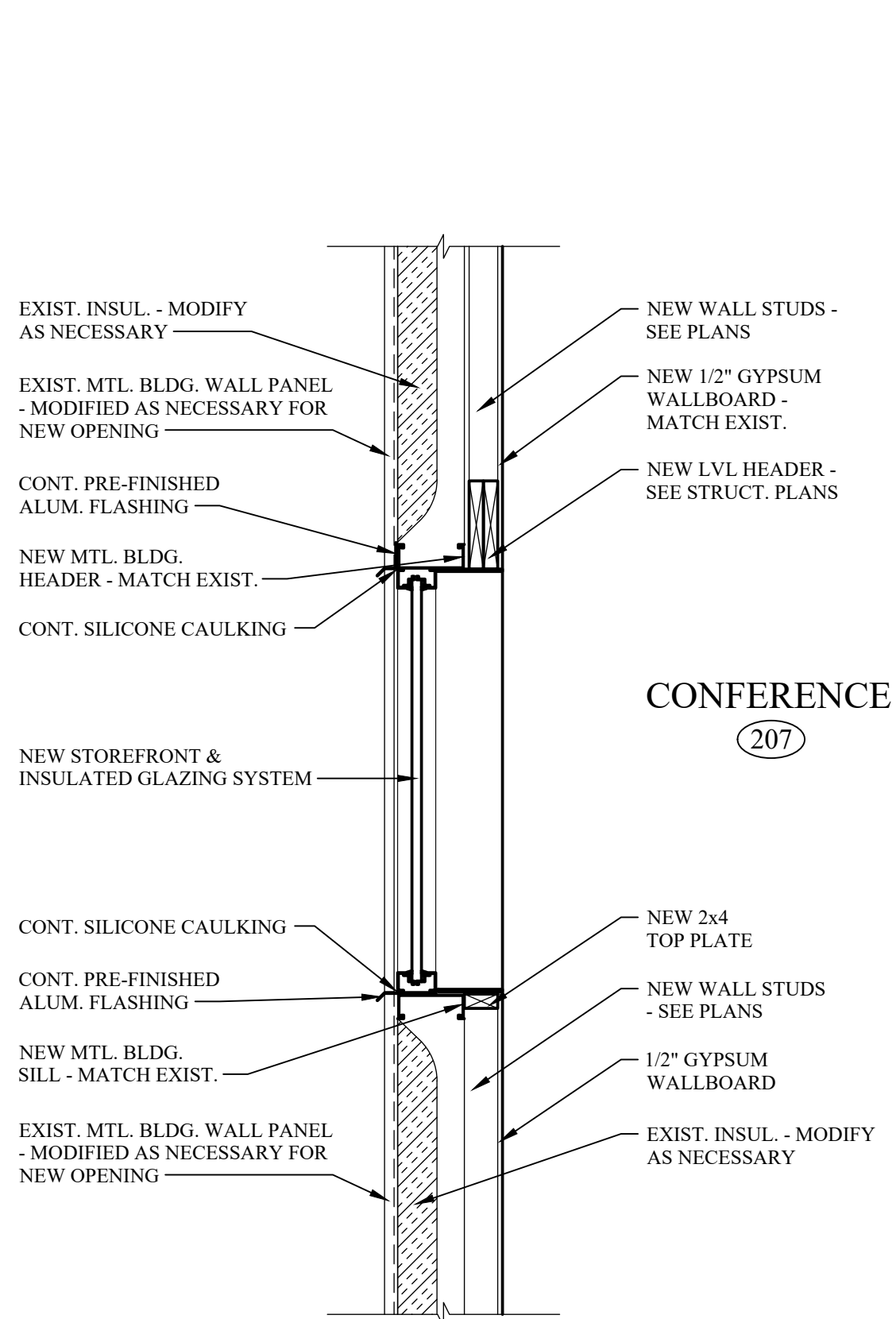
DOOR APPROACH
SCALE: NTS



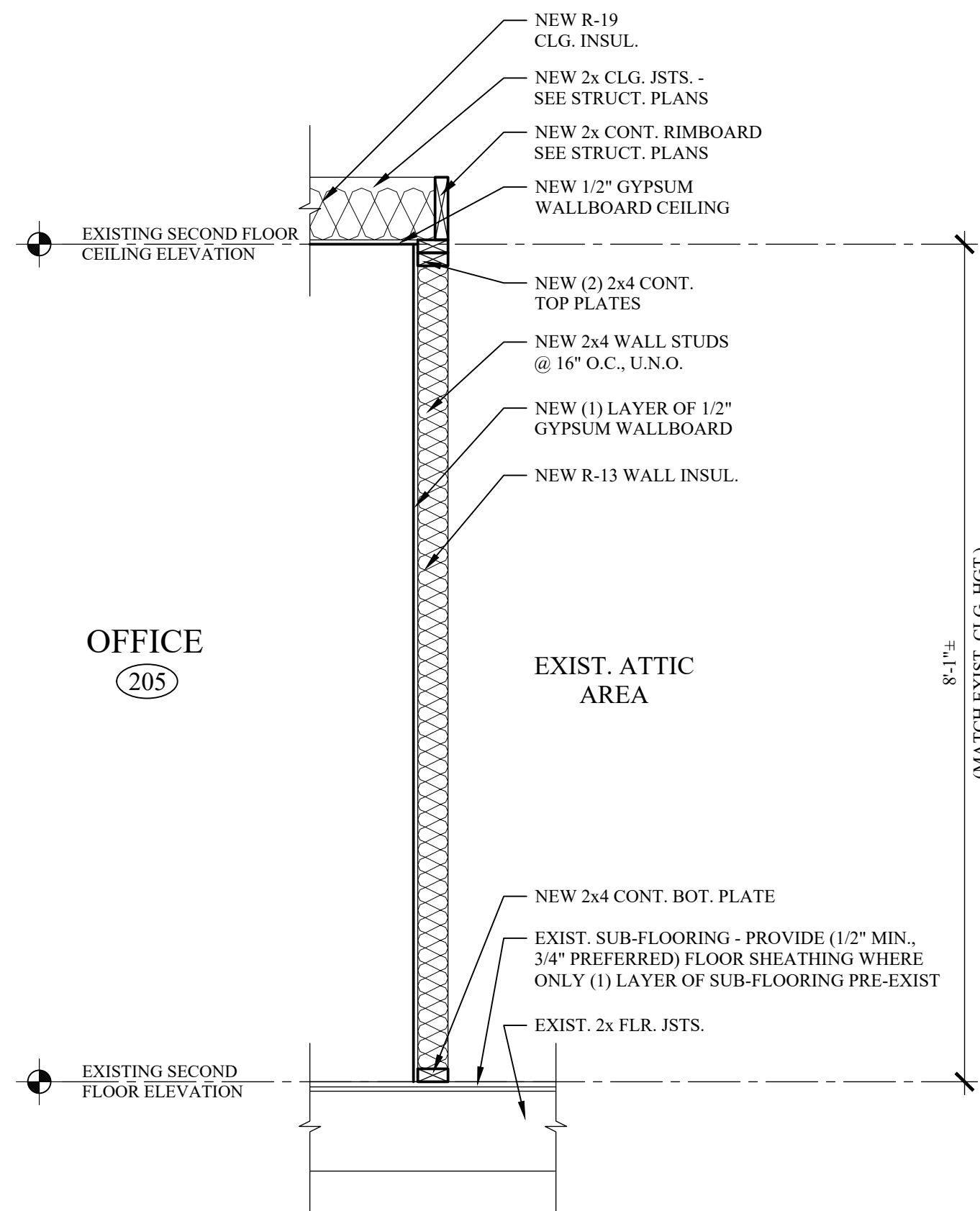
200
A2.1
EXISTING SIDE ELEVATION
SCALE: 1/4" = 1'-0"



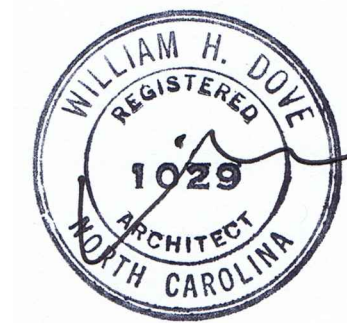
201
A2.1
TYPICAL PARTIAL WALL SECTION
SCALE: 3/4" = 1'-0"



203
A2.1
PARTIAL WALL SECTION
SCALE: 3/4" = 1'-0"



202
A2.1
TYPICAL PARTIAL WALL SECTION
SCALE: 3/4" = 1'-0"



08-01-22

INTERIOR RENOVATIONS FOR
ROCKY MOUNT ENERGY
RESOURCES OPERATION CTR.
ROCKY MOUNT, NORTH CAROLINA

GC SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. THIS DRAWING IS THE PROPERTY OF THE ARCHITECT + SHALL NOT BE USED OR COPIED WITHOUT THE ARCHITECT'S PERMISSION.

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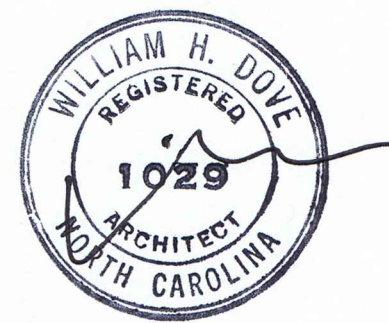
ELEVATION / SECTIONS

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A2.1

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08-01-22

INTERIOR RENOVATIONS FOR
ROCKY MOUNT ENERGY
RESOURCES OPERATION CTR.
ROCKY MOUNT, NORTH CAROLINA

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REVISIONS

PROJECT # 22-06

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AUGUST 2022	WDS	WHM

DRAWING TITLE

NOTES / SCHEDULES

11 of 24

A3.1

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GENERAL NOTES:

- ALL WALLS, DOORS, WINDOWS, FIXTURES, ETC. IN OUTSIDE OF LIMITS OF CONSTRUCTION IN EXISTING BUILDING SPACE ARE TO REMAIN AS IS UNLESS NOTED OTHERWISE ON DRAWINGS.
- COORDINATE WITH OWNER ON ALL NEW INTERIOR FLOOR, BASE, WALL AND CEILING FINISHES. AS A BASE PROVIDE CARPET FLOORS, VCT IN TOILET AREAS, VINYL COVE BASE, PAINTED WALLS AND PAINTED CEILINGS.
- ANY AND ALL NEW MATERIAL FINISHES SHALL MATCH TO ADJACENT TO EXISTING MATERIAL FINISHES.
- ELECTRICAL NOT BEING USED SHALL BE REMOVED IN ITS ENTIRETY. ELECTRICAL LIGHTING INDICATED ON ELECTRICAL DRAWINGS SHALL BE PLACED IN APPROXIMATE LOCATION ON PLANS IN NEW LAY-IN ACOUSTICAL GRID.
- CONTRACTOR SHALL FOLLOW ALL INDUSTRY CONSTRUCTION AND ELECTRICAL STANDARDS FOR TEMPORARY REMOVAL AND RE-INSTALLATION OF EXISTING SYSTEMS.
- ANY DAMAGE TO EXISTING ADJACENT SYSTEMS TO REMAIN SHALL BE REPAIRED OR REPLACED AS NECESSARY FOR PROPER OPERATION.
- WHILE USING TEMPORARY SUPPORTING STRUCTURE TO INSTALL NEW STRUCTURE, MAINTAIN ALL NECESSARY INDUSTRY PROCEDURES BEFORE, DURING AND END OF CONSTRUCTION.
- EXISTING TOILET AREAS ARE OUTSIDE THE LIMITS OF CONSTRUCTION AND HAVE NOT BEEN FIELD VERIFIED. THERE ARE NO CHANGES TO THE EXISTING TOILET AREAS.
- CABINETRY CONTRACTOR TO COORDINATE WITH OWNER ON CABINETRY LAYOUT.
- TACTILE EXIT SIGNAGE OF CHAPTER 10 'MEANS OF EGRESS', SECTION 1011, 1011.3 WHICH STATES, "A TACTILE SIGN STATING "EXIT" AND COMPLYING WITH ICC A117.1, SHALL BE PROVIDED ADJACENT TO EACH DOOR TO AN AREA OF REFUGE, EXTERIOR AREA OF ASSISTANCE RESCUE, EXIT STAIRWAY, EXIT RAMP, EXIT PASSAGEWAY, AND EXIT DISCHARGE". 'EXIT' SIGNAGE SHALL BE INSTALLED 12" FROM LATCH SIDE OF DOOR FRAME AND A MAX HEIGHT OF 60" A.F.F. AT EXIT DISCHARGE / PASSAGEWAY.
- EXTERIOR FINISH SHALL MATCH EXISTING METAL BUILDING WALL PANEL STYLE AND COLOR.
- EXTERIOR INSULATION SHALL BE R-19 WALL INSULATION AT NEW STUD WALL / EXISTING OPENING.
- PROVIDE A STANDARD METAL TYPE PULL-DOWN DISAPPEARING STAIR IN HALL WITH AN INSULATED COVER FOR MECHANICAL UNIT ACCESS. MAINTAIN UN-COMPRESSED INSULATION UNDER MECHANICAL SERVICES PLATFORM; PROVIDE FURRING AS NECESSARY.

DOOR: 3'-0" x 6'-8" x 1 1/2" 15-LITE FULL-GLASS TEMPERED WOOD DOOR	DOOR: 3'-0" x 6'-8" x 1 3/4" PANEL WOOD DOOR	DOOR: 3'-0" x 6'-8" x 1 3/4" INSULATED PANEL WOOD DOOR	DOOR: 3'-0" x 6'-8" x 1 1/2" 9-LITE FULL -GLASS TEMPERED WOOD DOOR	DOOR: EXISTING WOOD DOOR TO REMAIN, U.N.O.	DOOR: 3'-0" x 7'-0" x 1 3/4" SOLID CORE WOOD DOOR	DOOR: 3'-0" x 7'-0" x 1 3/4" INSUL. H.M. DOOR
FRAME: NEW FRAME - MATCH EXISTING FRAMES	FRAME: NEW FRAME - MATCH EXISTING FRAMES	FRAME: NEW FRAME - MATCH EXISTING FRAMES	FRAME: NEW FRAME - MATCH EXISTING FRAMES	FRAME: EXISTING WOOD FRAME TO REMAIN, U.N.O.	FRAME: H.M. FRAME - TO MATCH EXISTING FRAME	FRAME: H.M. FRAME - TO MATCH EXISTING FRAME
NOTE: SEE DOOR SCHEDULE FOR ADDITIONAL INFORMATION ON INDIVIDUAL DOORS						

DOOR SCHEDULE

SCALE: 1/4" = 1'-0"

GENERAL DOOR NOTES:

- GENERAL CONTRACTOR SHALL COORDINATE W/ HARDWARE MANUFACTURER FOR ALL NEW HARDWARE PER CODE.
- INTERIOR WOOD DOORS SHALL RECEIVE A PAINTED FINISH. DOOR FRAMES SHALL BE PAINTED. ALL MATERIALS SHALL BE CONFIRMED WITH THE OWNER PRIOR TO INSTALLATION AND CONSTRUCTION.
- G.C. TO COORDINATE WITH OWNER ON ALL FROSTED GLAZING LOCATION REQUIREMENTS.
- G.C. TO COORDINATE DOOR MANUFACTURER WITH AN INSULATED 9-LITE PANEL CONSTRUCTION PER MANUFACTURER STANDARDS.
- G.C. TO CONFIRM EXISTING DOOR THICKNESS IN FIELD AND PROVIDE SAME THICKNESS TO NEW DOORS.
- G.C. TO CONFIRM DOOR HEIGHT, JAMB, AND STYLE IN EXISTING MASONRY CONSTRUCTION AND EXISTING OPENINGS. PROVIDE FOR INDUSTRY STANDARDS FOR HEIGHT, JAMB AND STYLES.

DOOR SCHEDULE

DOOR SCHEDULE

DOOR NUMBER	SIZE			DOOR				FRAME			HARDWARE	REMARKS
	WIDTH	HEIGHT	THICKNESS	MATERIAL	GLAZING	ELEV	RATING	MATERIAL	ELEV	RATING		
100	EXISTING DOOR AND FRAME ASSEMBLY TO REMAIN AS IS					E	EXISTING DOOR AND FRAME ASSEMBLY TO REMAIN AS IS					
101	EXISTING DOOR AND FRAME ASSEMBLY TO REMAIN AS IS					E	EXISTING DOOR AND FRAME ASSEMBLY TO REMAIN AS IS					REMOVE LOCKS AS NECESSARY
102	3'-0"	7'-0"	1 3/4"	INSUL. H.M. DOOR		G	N/A	H.M.	N/A	N/A	PER CODE	PROVIDE NEW HARDWARE
103	3'-0"	7'-0"	1 3/4"	SOLID CORE WOOD DOOR		F	N/A	H.M.	N/A	N/A	DOOR PER MANUF.	PROVIDE NEW HARDWARE
104	3'-0"	7'-0"	1 3/4"	SOLID CORE WOOD DOOR		F	N/A	H.M.	N/A	N/A	DOOR PER MANUF.	PROVIDE NEW HARDWARE
200	3'-0"	6'-8"	1 1/2"	DOOR PER MANUF.	5/8" INSULATING TEMPERED	A	N/A	DOOR PER MANUF.	N/A	N/A	DOOR PER MANUF.	
201	3'-0"	6'-8"	1 3/4"	PANEL WOOD DOOR		B	N/A	DOOR PER MANUF.	N/A	N/A	DOOR PER MANUF.	
202	3'-0"	6'-8"	1 3/4"	PANEL WOOD DOOR		B	N/A	DOOR PER MANUF.	N/A	N/A	DOOR PER MANUF.	
203	3'-0"	6'-8"	1 3/4"	PANEL WOOD DOOR		B	N/A	DOOR PER MANUF.	N/A	N/A	DOOR PER MANUF.	
204	3'-0"	6'-8"	1 3/4"	PANEL WOOD DOOR		B	N/A	DOOR PER MANUF.	N/A	N/A	DOOR PER MANUF.	
205	3'-0"	6'-8"	1 3/4"	PANEL WOOD DOOR		C	N/A	DOOR PER MANUF.	N/A	N/A	DOOR PER MANUF.	
206	3'-0"	6'-8"	1 1/2"	DOOR PER MANUF.	5/8" INSULATING TEMPERED	D	N/A	DOOR PER MANUF.	N/A	N/A	DOOR PER MANUF.	
207	3'-0"	6'-8"	1 3/4"	PANEL WOOD DOOR		B	N/A	DOOR PER MANUF.	N/A	N/A	DOOR PER MANUF.	
208	3'-0"	6'-8"	1 3/4"	PANEL WOOD DOOR		B	N/A	DOOR PER MANUF.	N/A	N/A	DOOR PER MANUF.	
209	3'-0"	6'-8"	1 3/4"	PANEL WOOD DOOR		B	N/A	DOOR PER MANUF.	N/A	N/A	DOOR PER MANUF.	
210	3'-0"	6'-8"	1 3/4"	PANEL WOOD DOOR		B	N/A	DOOR PER MANUF.	N/A	N/A	DOOR PER MANUF.	
211	3'-0"	6'-8"	1 3/4"	PANEL WOOD DOOR		B	N/A	DOOR PER MANUF.	N/A	N/A	DOOR PER MANUF.	
212	3'-0"	6'-8"	1 3/4"	PANEL WOOD DOOR		B	N/A	DOOR PER MANUF.	N/A	N/A	DOOR PER MANUF.	

WINDOW SCHEDULE

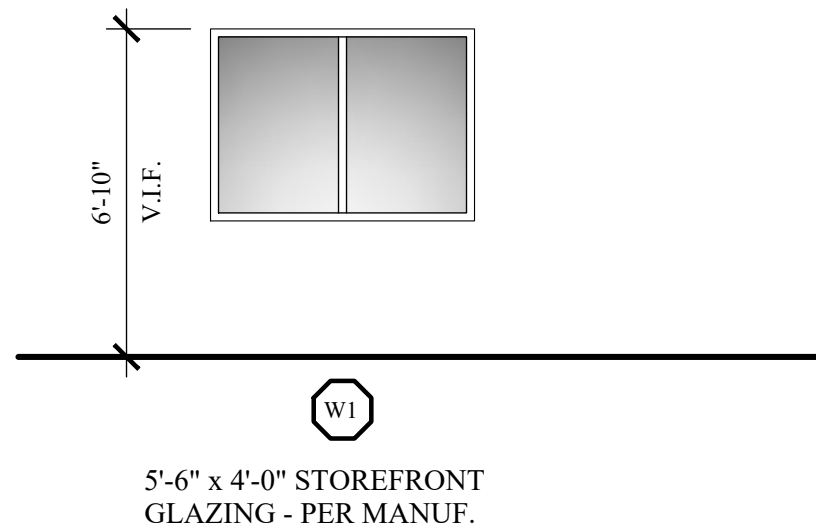
MARK	FRAMING			GLAZING			REMARKS
	SIZE	MATERIAL	FINISH	THICKNESS	TYPE		
W1	5'-6" x 4'-0"	ALUMINUM	CLEAR - TO BE APPROVED	PER MANUFACTURER	1" INSUL. GLAZING		

GENERAL FINISH NOTES:

CONTRACTOR TO COORDINATE AND CONFIRM ALL INTERIOR AND EXTERIOR MATERIALS AND FINISHES WITH OWNER, PRIOR TO PROVISION AND INSTALLATION.

GENERAL WINDOW NOTES:

- PROVIDE ALL NECESSARY FRAME ANCHORS AS REQUIRED FOR SPECIFIC INSTALLATIONS.
- ALL GLAZING WITHIN 24" OF VERTICAL EDGE OF DOORS, STAIRS, ETC. SHALL BE TEMPERED. TEMPERED GLAZING SHALL BE USED AS NOTED AND AS REQUIRED BY CODE.
- ALL FRAMING SYSTEMS SHALL BE DESIGNED, ENGINEERED AND FABRICATED BY THE SYSTEM MANUFACTURER TO MEET ALL APPLICABLE CODES.
- ALL WINDOW DIMENSIONS INDICATED ARE STANDARD WINDOW DIMENSIONS. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR EXACT DIMENSIONS PER WINDOW MANUFACTURER AT JOB SITE PRIOR TO SELECTION. ROUGH OPENINGS PER SELECTED WINDOW MANUFACTURER.
- G.C. TO COORDINATE NEW HEAD HEIGHTS IN FIELD TO MATCH THE EXISTING ADJACENT HEAD HEIGHTS TO NEW WINDOW LOCATIONS.



WINDOW SCHEDULE

SCALE: 1/4" = 1'-0"

PLUMBING FIXTURE SCHEDULE						
SYMBOL	FIXTURE	MANUFACTURER	FITTING	HW	CW	WASTE
P1	FLUSH VALVE WATER CLOSET	TOTO C1705EN OR EQUAL BY AMERICAN STANDARD DR KOHLER	FLOOR MOUNTED, VITREOUS CHINA, 1.28 GPF LOW CONSUMPTION SIPHON JET FLUSHING TOILET COMPLYING WITH ASME 112.19.2. TOILET SHALL BE ELONGATED FRONT BOWL. PROVIDE SC534 OPEN FRONT SEAT LESS COVER. SLIDAN CROWN 111-1.28 FLUSHMETER OR EQUAL BY ZURN DR TOTO.	-	1"	3"
PHW	ADA FLUSH VALVE WATER CLOSET	TOTO C1705ELN OR EQUAL BY AMERICAN STANDARD DR KOHLER	FLOOR MOUNTED, VITREOUS CHINA, 1.28 GPF LOW CONSUMPTION SIPHON JET FLUSHING TOILET COMPLYING WITH ASME 112.19.2. TOILET SHALL BE ELONGATED FRONT BOWL. PROVIDE SC534 OPEN FRONT SEAT LESS COVER. SLIDAN CROWN 111-1.28 FLUSHMETER OR EQUAL BY ZURN DR TOTO. TOP OF SEAT SHALL BE 17-19 INCHES AFF FOR ADA.	-	1"	3"
PHHT	TWO PIECE TANK TYPE ADA WATER CLOSET	TOTO CST744EL OR EQUAL BY AMERICAN STANDARD DR KOHLER	TWO-PIECE VITREOUS CHINA TOILET WITH HIGH-PROFILE TANK, ELONGATED FRONT BOWL AND CHROME TRIP LEVER. 1.28 GPF. PROVIDE SC534 OPEN FRONT SEAT LESS COVER. ASME 112.19.2 COMPLIANCE. TOP OF SEAT SHALL BE 17-19 INCHES AFF FOR ADA. LEVER MOUNTED ON WIDE SIDE FOR ADA	-	1 1/2"	3"
P2A	COUNTER MOUNT LAVATORY	TOTO LTS11.4 OR EQUAL BY AMERICAN STANDARD DR KOHLER	VITREOUS CHINA SELF-RIMMING LAVATORY COMPLYING WITH ASME 112.19.2. MOUNT SO RIM IS 34 INCHES AFF AND 2 INCHES FROM FRONT EDGE FOR ADA. PROVIDE WITH LAV-GUARD PROTECTORS SUPPLY AND DRAIN LINES. USE A METERING TYPE FAUCET SIMILAR TO CHICAGO 3300-CP.	1/2"	1 1/2"	2"
P14	SINK LARGE SINGLE BOWL	JUST MFG SL-ADA-2133-A-GR OR EQUAL BY FRANKIE, ELKAY DR KOEN	TOP MOUNTED 18 GA STAINLESS STEEL. MAX BOWL DEPTH 6 INCHES FOR WHEEL CHAIR ACCESSIBILITY-USE JUST MFG FAUCET SET JFD-1550 OR EQUAL BY KOEN, DELTA DR KOHLER.	1/2"	1 1/2"	2"
P3	FLOOR DRAIN	WATTS FD-200-A DR EQUAL BY ZURN DR JR SMITH	DN GRADE EPOXY COATED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, WEEP HOLES, ADJUSTABLE ROUND NICKEL BRONZE STRAINER, AND NO HUB OUTLET. PROVIDE TRAP PRIMER CONNECTION OPTION IF NOTED.	-	-	3"
P7	THERMOSTATIC MIXING VALVE	WATTS LFMMV DR EQUAL BY LAWLER DR LEONARD VALVE	ASSE STANDARD 1069 OR 1070 APPROVED WITH 1/2 INCH FEMALE NPT INLET AND OUTLET CONNECTIONS, BRASS BODY, AND INTEGRAL MOUNTING HOLES. TAMPER RESISTANT THERMOPLASTIC ENCLOSURE. SINGLE REPLACEABLE CARTRIDGE DESIGN.	1/2"	1 1/2"	-
FCO	FLOOR CLEANOUT	ZURN, WATTS, JR SMITH	EPOXY COATED CAST IRON FLOOR CLEANOUT WITH ROUND ADJUSTABLE GASKETED NICKEL BRONZE TOP, REMOVABLE GAS TIGHT GASKETED BRASS CLEANOUT PLUG, AND NO HUB INLET.	-	-	4"
WCO	WALL CLEANOUT	ZURN, WATTS, DR JR SMITH	CAST IRON CLEANOUT FERROULE WITH THREADED BRASS CONNECTIONSINK CLEANOUT PLUG, STAINLESS STEEL ACCESS COVER, AND MANUAL PROOF STAINLESS STEEL SCREW	-	-	4"
RD	ROOF DRAIN	ZURN Z121 DR APPROVED EQUAL	12 in DIAMETER ROOF DRAIN. TURA-COATED CAST IRON BODY WITH COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD AND LOW SILICAETIC CAST IRON TROM.	-	-	4"
AAV	AIR ADMITTANCE VALVE	STUOR REDIVENT DR APPROVED EQUAL	ANSI/ASSE 1051 LISTED. NSF STANDARD 14. PROVIDE PVC OR ABS CONNECTOR AS NECESSARY. CONNECT VALVE TO PIPING PER MANUFACTURER. INSTALL IN THE VERTICAL, UPRIGHT POSITION AFTER ROUGH-IN AND PRESSURE TESTING OF THE SYSTEM.PROVIDE WALL BOX IF NOT ABOVE CEILING OR OTHERWISE CONCEALED.	-	-	2"

PLUMBING LINES SIZING TABLE									
FIXTURE TYPE	OCCUPANCY	QTY	DRAINAGE FIXTURE UNITS		WATER SUPPLY FIXTURE UNITS				
			EACH	TOTAL	CW	HW	CW & HW	HW TOTAL	TOTAL
WATER CLOSET (FLUSH VALVE)	PUBLIC	3	4.00	12.00	10.00	0.00	10.00	0.00	30.00
WATER CLOSET (FLUSH TANK)	PUBLIC	2	4.00	8.00	5.00	0.00	5.00	0.00	10.00
LAVATORY	PUBLIC	5	1.00	5.00	1.50	1.50	2.00	7.50	10.00
URINAL (3/4" FLUSH VALVE)	PUBLIC	2	2.00	4.00	5.00	0.00	5.00	0.00	10.00
MOP SINK	PUBLIC	0	2.00	0.00	2.25	2.25	3.00	0.00	0.00
EMERGENCY FLOOR DRAIN	PUBLIC	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEMAND FIXTURE	GPM	QTY	TOTAL GPM		TOTAL DFU		29.0		
HOSE BIBBS	5	0	0.00		TOTAL WFSUs		7.5	60.0	
					GPM		12.30	54.00	
					OTHER FIXTURES' GPM		0.00	0.00	
					TOTAL GPM		12.30	54.00	
MINIMUM BUILDING DRAIN SIZE	4"								
MINIMUM WATER LINE SIZE	1 1/2"								

LINETYPE LEGEND	
COLD WATER SUPPLY	_____
HOT WATER SUPPLY	_____
SANITARY SEWER LINE	_____
VENT LINE	_____

ABBREVIATIONS AND DEFINITIONS	
ABBREVIATION	DEFINITION
CWS	COLD WATER SUPPLY
HWS	HOT WATER SUPPLY
SAN	SANITARY SEWER
GL	GREASE LADEN
VTR	VENT TO ROOF
FPHB	FREEZE PROOF HOSE BIBB
IHB	INTERIOR HOSE BIBB
PC	PLUMBING CONTRACTOR
BFP	BACK FLOW PREVENTOR
AFB	ABOVE FINISHED FLOOR
RI	ROUGH IN
CRI	CONCEALED ROUGH IN
ID	INTERIOR DRAIN-STORM
DS	DOWNSPUT-STORM
SS	SOIL STACK - SANITARY
FD	FLOOR DRAIN
RD	ROOF DRAIN
FU	FIXTURE UNIT
PT	PLASTER TRAP
PU	PROCTD UNIT
DSKY	OUTSIDE STEAM AND VOTE
WH	WATER HEATER
OSD	OPEN-SITE DRAIN
VS	VENT STACK (SANITARY)
SV	STACK VENT (SANITARY)
FCO	FLOOR CLEAN OUT
WCO	WALL CLEAN OUT

DO NOT TAP WATER LINE AHEAD OF RPZ.

GENERAL PLUMBING NOTES:

ADMINISTRATIVE:

- THE FOLLOWING ABBREVIATIONS SHALL APPLY TO NOTES AND PLANS:
PC - PLUMBING CONTRACTOR, EC - ELECTRICAL CONTRACTOR,
MC - MECHANICAL CONTRACTOR, GC - GENERAL CONTRACTOR,
FASC - FIRE ALARM SYSTEM CONTRACTOR.
- "PROVIDE" MEANS TO FURNISH AND INSTALL. THE PLUMBING CONTRACTOR SHALL ALSO INSTALL MATERIALS FURNISHED BY OTHERS AND THE GENERAL CONTRACTOR.
- THE PC SHALL BE RESPONSIBLE FOR A COMPLETE AND OPERATIONAL SYSTEM AS DESCRIBED ON THESE PLANS. SPECIFICATIONS:
A. ALL MATERIALS AND EQUIPMENT SHALL BE DELIVERED TO THE SITE AND UNLOADED AT AN APPROVED LOCATION. PC SHALL PROTECT ALL MATERIALS AND EQUIPMENT FROM BREAKAGE, THEFT, AND THE ELEMENTS. ALL MATERIALS AND EQUIPMENT SHALL REMAIN THE PROPERTY OF THE PC UNTIL THE PROJECT HAS BEEN COMPLETED AND TURNED OVER TO THE OWNER.
B. ALL MATERIALS USED SHALL BE NEW AND FREE OF DEFECTS. ANY MATERIALS FOUND TO BE DEFECTIVE SHALL BE REPLACED AT NO EXPENSE TO THE OWNER. ALL MATERIALS AND EQUIPMENT SHALL BEAR APPROVAL FROM UL OR AN APPROVED THIRD PARTY AGENCY. WHERE A MANUFACTURER AND MODEL NUMBER IS GIVEN, IT IS TO ESTABLISH A STANDARD OF QUALITY AND NOT TO LIMIT PRODUCTS TO A PARTICULAR MANUFACTURER. PRODUCTS DETERMINED TO BE EQUAL BY THE ENGINEER WILL BE ACCEPTED.
- THE PLUMBING SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE 2018 NORTH CAROLINA PLUMBING CODE AND ANY APPLICABLE LOCAL CODES WHERE A CONFLICT EXISTS BETWEEN THE ABOVE REQUIREMENTS, THE CONTRACTOR SHALL OBTAIN CLARIFICATION FROM THE ENGINEER OR IN THE EVENT ANY PART OF THESE PLANS CONFLICTS WITH THE ABOVE REQUIREMENTS.
- THE PC SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES, AND INSPECTIONS NECESSARY FOR THE COMPLETION OF THE WORK UNDER THIS CONTRACT.
- DO NOT SCALE THESE DRAWINGS-REFER TO ARCHITECTURAL SHEETS FOR DIMENSIONS.
- THESE PLANS ARE DIAGRAMMATIC. THE PC SHALL ADJUST THE LOCATIONS OF EQUIPMENT, FIXTURES, PIPING, ETC, TO ACCOMMODATE PLANNED AND ENCOUNTERED INTERFERENCES. THE DRAWINGS DO NOT SHOW ALL BENDS, OFFSETS, AND FITTINGS THAT MAY BE REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. THE PC SHALL MAKE ALLOWANCES FOR SUCH DEVIATIONS AND CONSEQUENCES IN BID TO IMPLEMENT THEM WITHOUT ADDITIONAL COST TO THE OWNER. THE PC SHALL VISIT THE SITE PRIOR TO BIDDING TO BECOME FAMILIAR WITH EXISTING CONDITIONS. CONTRACTOR SHALL CONTACT THE ENGINEER TO RESOLVE ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THESE PLANS. TO AVOID POTENTIAL CONFLICTS, COORDINATE WITH OTHER TRADES PRIOR TO THE START OF CONSTRUCTION. ALL UNDERGROUND UTILITIES SHALL BE LOCATED PRIOR TO ANY DIGGING, TRENCHING, COMPACTING, AND BACKFILL SHALL BE BY PC AND SHALL BE IN ACCORDANCE WITH SECTION 306 OF THE NC PLUMBING CODE. UNDERGROUND LINES SHALL BE LOCATED SUCH THAT THEY DO NOT ENDANGER FOOTINGS OR FOUNDATION WALLS.
- THE PC SHALL PROVIDE PRESTRESSING AT ALL PENETRATIONS OF RATED FLOOR/CEILING ASSEMBLIES AND RATED WALL ASSEMBLIES TO PRESERVE OR RESTORE THE FIRE RESISTANCE RATING. SEAL ALL PENETRATIONS USING A UL LISTED SYSTEM FOUND IN THE UL DIRECTORY SPECIFIC TO THE UL LISTING OF THE ASSEMBLY BEING PENETRATED. SEE ARCHITECTURAL PLANS FOR UL RATED ASSEMBLIES SPECIFIC TO THE PROJECT.
- SYSTEM TESTING SHALL BE PERFORMED BY PLUMBING CONTRACTOR IN ACCORDANCE WITH NORTH CAROLINA PLUMBING CODE, SECTIONS 312.2, 312.3, AND 312.5.
- PC SHALL DISINFECT THE ENTIRE DOMESTIC WATER PIPING SYSTEM IN ACCORDANCE WITH THE AMERICAN WATER WORKS ASSOCIATION'S SPECIFICATIONS AND LOCAL HEALTH DEPARTMENT REGULATIONS.
- AT THE COMPLETION OF WORK AND PRIOR TO ACCEPTANCE BY OWNER, THE PC SHALL CLEAN ALL EXPOSED FIXTURES, MATERIALS, AND EQUIPMENT UNDER THIS CONTRACT.
- PC SHALL COORDINATE WITH THE GENERAL CONTRACTOR TO ENSURE ALL APPLICABLE CONSTRUCTION WASTE IS RECYCLED DURING THE CONSTRUCTION PHASE OF THE PROJECT.

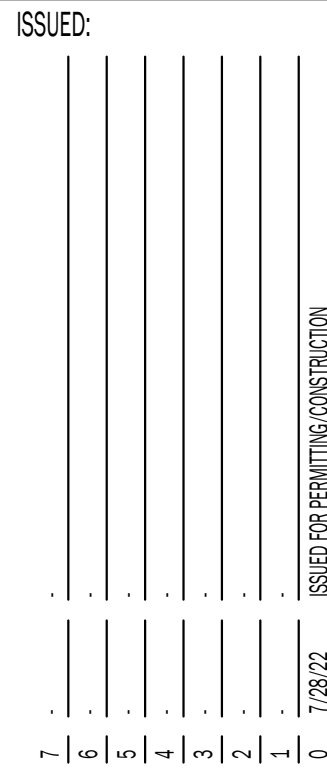
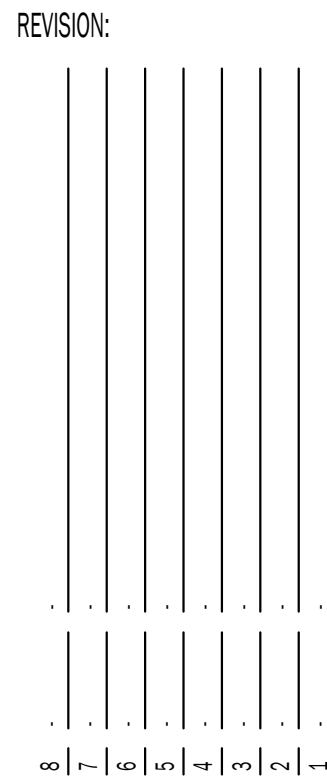
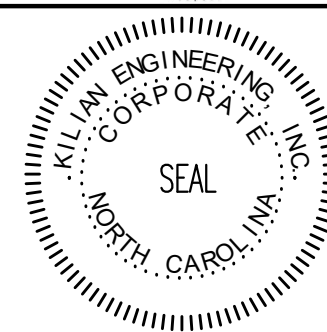
MATERIALS:

- ALL OVERHEAD DOMESTIC WATER PIPING SHALL BE TYPE L COPPER WITH 95/5 LEAD FREE SOLDER, AND ALL BELOW GRADE WATER PIPING SHALL BE TYPE K COPPER WITH NO JOINTS. ALL PIPING SHALL HAVE MANUFACTURER'S NAME AND THE APPLICABLE STANDARD TO WHICH IT WAS MANUFACTURED CLEARLY MARKED ON EACH LENGTH. PIPING SHALL COMPLY WITH ASTM B-88. USE BRAZED JOINTS ON ALL COPPER PIPING 1-1/2 INCH AND LARGER. ALL PIPE AND PIPE FITTINGS, INCLUDING VALVES AND FAUCETS, USED IN THE WATER DISTRIBUTION SYSTEM SHALL HAVE A MAXIMUM LEAD CONTENT OF 25-PERCENT AND SHALL CONFORM TO NSF 61. HOT WATER DISTRIBUTION PIPE AND TUBING SHALL HAVE A MINIMUM PRESSURE RATING OF 100 PSI AT 180°F. COLD WATER DISTRIBUTION PIPE AND TUBING SHALL HAVE A MINIMUM PRESSURE RATING OF 160 PSI AT 73.4°F. DO NOT INSTALL PEX OR CPVC PIPING IN RETURN AIR PLENUMS.
- BALL VALVES SHALL HAVE BRASS BODY, FULL PORT, CHROME PLATED BALL, WITH TEFLOM SEATS, 150 PSI WSP, AND COMPLY WITH MSS SP-110. GATE VALVES SHALL HAVE BRONZE BODY, CLASS 150, AND COMPLY WITH MSS SP-80, TYPE 2 STANDARD. VALVE BODY SHALL BE ASTM B 62, BRONZE WITH INTEGRAL SEAT AND UNION RING BONNET. ENDS SHALL BE THREADED OR SOLDER WITH COPPER-SILICON BRONZE STEM AND SOLID-WEDGE BRONZE DISC. INSTALL VALVES IN LOCATIONS THAT PERMIT EASY ACCESS WITHOUT DAMAGE TO BUILDING OR FINISHED MATERIALS. PROVIDE ACCESS DOORS IF REQUIRED. VALVES SHALL BE BY NIBCO, WATTS, OR STOCKHAM.
- COLD WATER LINES SHALL BE INSULATED WITH 1/2 INCH THICK FIBROUS GLASS INSULATION WITH A FLAME DENSITY RATING LESS THAN 25 AND A SMOKE DENSITY RATING LESS THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84. HOT WATER LINES UP TO 2 INCHES DIAMETER SHALL HAVE 1 INCH THICK INSULATION CONFORMING TO THE SAME STANDARD. PIPING LARGER THAN 2 INCHES SHALL RECEIVE 1-1/2 INCH THICK INSULATION. CLOSED CELL RUBBER INSULATION MEETING THE SMOKE AND FLAME RATINGS ABOVE MAY BE SUBSTITUTED FOR FIBROUS GLASS TYPE IF SO DESIRED. INSULATION INSTALLED ON PIPING OPERATING BELOW AMBIENT TEMPERATURES MUST HAVE A CONTINUOUS VAPOR RETARDER. ALL JOINTS, SEAMS, AND FITTINGS MUST BE SEALED. ON SYSTEMS OPERATING ABOVE AMBIENT, THE BUTT JOINTS SHOULD NOT BE SEALED. ON COLD SURFACES WHERE A VAPOR SEAL MUST BE MAINTAINED, INSULATION SHALL BE APPLIED WITH A CONTINUOUS, UNBROKEN MOISTURE AND VAPOR RETARDER. ALL HANGERS, SUPPORTS, ANCHORS, OR OTHER PROTECTIONS SECURED TO COLD SURFACES SHALL BE INSULATED AND VAPOR SEALED TO PREVENT CONDENSATION. ALL PIPE INSULATION SHALL BE CONTINUOUS THROUGH WALLS, CEILING OR FLOOR OPENINGS, OR SLEEVES EXCEPT WHERE PRESTOP OR PRESAPING MATERIALS ARE REQUIRED. INSULATION SHALL HAVE A FACTORY APPLIED ALL-SERVICE JACKET WITH SELF-SEALING LAP. WHITE-KRAFT PAPER BONDED TO ALUMINUM FOL AND REINFORCED WITH GLASS FIBER, CONFORMING TO ASTM C 1136. TYPE 1 VAPOR RETARDER, WITH A SELF-SEALING ADHESIVE. VERIFY THAT PIPING HAS BEEN TESTED, SURFACES ARE CLEAN AND DRY, AND ALL FOREIGN MATERIALS ARE REMOVED BEFORE APPLYING INSULATION MATERIALS. INSULATION SHALL BE BY KNAUF, ARMACELL, JOHNS-MANVILLE, OR OWENS-CORNING.
- ALL INSULATION CONTAINING FIBROUS MATERIALS EXPOSED TO AIRFLOW SHALL BE RATED FOR THAT EXPOSURE OR SHALL BE ENCAPSULATED INSULATING PROPERTIES FOR ALL MATERIALS SHALL MEET OR EXCEED INDUSTRY STANDARDS. POLYSTYRENE PRODUCTS SHALL MEET ASTM C578 91. ALL INSULATION SHALL BE LOW-EMITTING WITH NOT GREATER THAN 0.05 PPM FORMALDEHYDE EMISSIONS. THE MAXIMUM FLAME SPREAD AND SMOKE DEVELOPED INDEX FOR INSULATION SHALL MEET THE REQUIREMENTS OF THE LOCAL CODES AND ORDINANCES ADOPTED BY THE JURISDICTION IN WHICH THE BUILDING IS LOCATED.
- FAUCETS AND FIXTURE FITTINGS THAT SUPPLY DRINKING WATER FOR HUMAN CONSUMPTION SHALL CONFORM TO THE REQUIREMENTS OF NSF 61, SECTION 9. FIXTURE FITTINGS, FAUCETS, AND DIVERTERS SHALL BE INSTALLED AND ADJUSTED SO THAT THE FLOW OF HOT WATER FROM THE FITTINGS CORRESPONDS TO THE LEFT HAND SIDE OF THE FIXTURE FITTING.
- FOR BELOW GRADE SANITARY WASTE PIPING, PC SHALL USE SERVICE WEIGHT CAST IRON PIPE WITH COMPRESSION JOINTS (ASTM A 74). USE MINIMUM 2 INCH SIZE UNDERGROUND. SOLID WALL SCHEDULE 40 PVC (ASTM D 2665) WITH SCHEDULE 40 SOCKET TYPE PIPE FITTINGS (ASTM D 3311) MAY ALSO BE USED. DO NOT USE PVC PIPE FOR APPLICATIONS WHERE THE WASTE WATER TEMPERATURE EQUALS OR EXCEEDS 140°F OR IF THE BUILDING HEIGHT EXCEEDS 75 FEET.
- FOR ABOVE GRADE SANITARY WASTE AND HOT WATER PIPING, USE SERVICE WEIGHT CAST IRON NO-HUB TYPE WITH COUPLINGS (GSPR 301). SOLID WALL SCHEDULE 40 PVC (ASTM D 2665) WITH SCHEDULE 40 SOCKET TYPE FITTINGS (ASTM D 3311) MAY BE USED IF PERMITTED BY LOCAL CODE, EXCEPT IN BUILDINGS EXCEEDING 75 FEET IN HEIGHT. DO NOT INSTALL PVC IN RETURN AIR PLENUMS. ALL VENT AND BRANCH VENT PIPES SHALL BE 30 GRADED AND CONNECTED AS TO DRAIN BACK TO THE DRAINAGE PIPE BY GRAVITY. BRANCH VENTS EXCEEDING 40 FEET IN DEVELOPED LENGTH SHALL BE INCREASED BY ONE NOMINAL SIZE FOR THE ENTIRE DEVELOPED LENGTH OF THE PIPE.

METHODS:

- WATER SERVICE PIPE AND THE BUILDING SEWER SHALL BE SEPARATED BY 5 FEET OF UNDISTURBED OR COMPACTED EARTH IN ACCORDANCE WITH 603.2. PROVIDE ALL FITTINGS, VALVES, AND OTHER ACCESSORIES AS NECESSARY FOR A COMPLETE INSTALLATION. ALL DOMESTIC WATER PIPING SHALL BE CONCEALED IN FINISHED AREAS; ANY OPEN ENDS SHALL BE PROTECTED UNTIL FINAL CONNECTIONS ARE MADE.
- ABOVE GRADE DOMESTIC WATER PIPING SHALL BE SLOPED AT A MINIMUM OF 1/32 INCH PER FOOT AND ARRANGED TO DRAIN AT LOW POINTS. INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE, JOINTS, OR CONNECTED EQUIPMENT. ROUTE PIPING IN AN ORDERLY MANNER-PARALLEL OR PERPENDICULAR TO WALLS WHEN POSSIBLE-AND MAINTAIN GRADIENT. EACH SUPPLY BRANCH LINE SERVING MORE THAN ONE FIXTURE SHALL HAVE A SHUTOFF VALVE INSTALLED TO ISOLATE ALL FIXTURES AND PIECES OF EQUIPMENT SUPPLIED BY THE BRANCH LINE. THE SHUTOFF VALVE SHALL BE LABELED AND LOCATED AS CLOSE TO THE CONNECTION TO THE SUPPLY MAIN AND RISER AS POSSIBLE. PROVIDE A FULL-OPEN VALVE ON THE BASE OF EVERY WATER RISER PIPE AND ON THE TOP OF EVERY WATER DOWN-FEED PIPE. PROVIDE VALVE HANDLE EXTENSIONS AS NECESSARY FOR INSULATION.
- IT SHALL BE THE RESPONSIBILITY OF THE PC TO SUSPEND AND SUPPORT ALL PIPING SYSTEMS FOLLOWING RECOGNIZED ENGINEERING PRACTICES AND USING STANDARD, COMMERCIALY ACCEPTED PIPE HANGERS AND SUSPENSION EQUIPMENT. ALL FIXTURES, DEVICES, AND EQUIPMENT SHALL BE SECURELY MOUNTED TO THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING OR WALL SURFACES FOR SUPPORT. THE SUPPORT ATTACHMENT SHALL SUPPORT THE WEIGHT OF THE FIXTURE OR EQUIPMENT PLUS THE WEIGHT OF THE SUPPORT ATTACHMENT ITSELF. SUPPORT FROM THE TOP CHORD OF THE ROOF JOISTS, GIRDERS, AND BEAMS. THE BOTTOM CHORD IS NOT TO BE USED FOR EQUIPMENT AND PIPING SUPPORT. HANGERS SHALL NOT BE ATTACHED TO CORRUGATED STEEL DECKING. USE STEEL HANGERS FOR STEEL AND PLASTIC PIPE AND COPPER OR COPPER-PLATED HANGERS FOR COPPER PIPE. PROVIDE PROTECTION FOR COPPER PIPING IN CONTACT WITH DISSIMILAR METALS. WHERE COPPER PIPING IS SUPPORTED ON HANGERS WITH OTHER PIPING, PROVIDE A PERMANENT ELECTROLYTIC ISOLATION MATERIAL TO PREVENT CONTACT WITH OTHER METALS. IN GENERAL, HANGERS SHALL BE CLEVIS TYPE, STANDARD WEIGHT. FOR PIPING, HANGER SPACING SHALL BE IN ACCORDANCE WITH TABLE 308.5 OF THE NC PLUMBING CODE. HANGERS AND ACCESSORIES SHALL BE GRINNEL, WASON, OR B-LINE.
- SLEEVE ALL PIPES PASSING THROUGH PARTITIONS, WALLS, AND FLOORS. SLEEVES IN FLOORS AND INTERIOR WALLS OF POURED IN PLACE CONCRETE, BRICK, TILE, OR MASONRY SHALL BE SCHEDULE 40 STEEL PIPE, MACHINE CUT. SLEEVES IN GYPSUM BOARD WALLS SHALL BE 22 GAUGE, ROLLED GALVANIZED SHEET METAL. TACK WELD ON THE LONGITUDINAL SEAM. PROVIDE SLEEVES WHERE PIPES PASS THROUGH FLOORS AND WALLS ABOVE AND BELOW CEILINGS. PROVIDE SPLIT PIPE SLEEVES IN NEW WALLS BUILT UP AROUND EXISTING PIPES. TACK WELD SPLIT SLEEVES TOGETHER. SLEEVES IN WALLS SHALL BE INSTALLED FLUSH WITH THE WALL. SLEEVES IN FLOORS SHALL EXTEND 3/4 INCH ABOVE THE FLOOR-EXCEPT THEY SHALL BE FLUSH FOR 2 HOUR RATED FLOORS-AND SHALL BE FLUSH WITH THE STRUCTURE BELOW. EACH SLEEVE SHALL HAVE AN INSIDE DIAMETER 1 INCH LARGER THAN THE OUTSIDE DIAMETER OF THE COVERING OF EACH COVERED PIPE TO ALLOW CONTINUOUS INSULATION-BUT NOT LESS THAN TWO PIPE SIZES LARGER THAN EACH UNCOVERED. ANNULAR SPACES BETWEEN SLEEVES AND PIPES SHALL BE FILLED OR CAULKED IN AN APPROVED MANNER.
- THE TOP OF WATER PIPES INSTALLED BELOW GRADE OUTSIDE THE BUILDING SHALL BE BELOW THE FROST LINE OR A MINIMUM OF 12 INCHES BELOW FINISHED GRADE WHICHEVER IS GREATER. WATER PIPING INSTALLED IN A WALL EXPOSED TO THE EXTERIOR SHALL BE LOCATED ON THE HEATED SIDE OF THE WALL. INSULATION, WATER PIPING INSTALLED IN AN UNCONDITIONED UTILITY ROOM OR UNCONDITIONED ATTIC SHALL BE INSULATED TO A MINIMUM OF R6.5 DETERMINED IN ACCORDANCE WITH ASTM C 177.
- HOT WATER PROVIDED TO PUBLIC HAND-WASHING FACILITIES/LAVATORIES SHALL BE TEMPERED WATER DELIVERED THROUGH AN APPROVED WATER-TEMPERATURE LIMITING DEVICE THAT CONFORMS TO ASSE 1070 OR CSA B125.3.
- INSULATE ALL EXPOSED WASTE AND SUPPLY PIPING UNDER LAVATORIES, SINKS, AND ELECTRIC WATER COOLERS WITH THE HAND-LAY GUARD INSULATION KIT BY TREBBERO OR EQUAL.
- POTABLE WATER OUTLETS SHALL BE PROTECTED FROM BACKFLOW IN ACCORDANCE WITH 608.15. PRESSURE TYPE VACUUM BREAKERS SHALL CONFORM TO ASSE 1020 AND SPILLPROOF VACUUM BREAKERS SHALL COMPLY WITH ASSE 1056. HOSE-CONNECTION VACUUM BREAKERS SHALL CONFORM TO ASSE 1011, ASSE 1019, ASSE 1035, OR ASSE 1052. CONNECTIONS TO BEVERAGE DISPENSERS, COFFEE MACHINES, AND NON-CARBONATED BEVERAGE DISPENSERS SHALL BE PROTECTED BY A BACKFLOW PREVENTER IN ACCORDANCE WITH ASSE 1022.
- THE PC SHALL INSTALL WATER HAMMER ARRESTORS ON BRANCH LINES WITH QUICK CLOSING VALVES PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. WATER HAMMER ARRESTORS SHALL CONFORM TO ASSE 1010.
- THE PC SHALL PROVIDE CHECK VALVES AT ALL FIXTURES WITH THREADED OUTLETS AS REQUIRED BY CODE. TRAP PRIMERS SHALL BE PROVIDED AS SHOWN ON THE PLANS OR AS REQUIRED.
- ADJUST STOPS AND VALVES FOR INTENDED FLOW RATE TO FIXTURES WITHOUT SPRAYING, NOISE, OR OVERFLOW.
- BEFORE COMMENCING WORK, CHECK INVERT ELEVATIONS REQUIRED FOR SEWER CONNECTIONS, CONFIRM INVERTS, AND VERIFY THESE CAN BE PROPERLY CONNECTED TO WITH SLOPE FOR DRAINAGE AND COVER TO AVOID FREEZING. ONCE INVERTS AND FALL HAVE BEEN ESTABLISHED, AND INSTALL ALL DRAINS, STACKS, VENTS, FLOOR DRAINS, AND CLEANOUTS NECESSARY FOR A COMPLETE INSTALLATION.
- ALL SANITARY SEWER PIPING IS BELOW GRADE OR WITHIN WALLS UNLESS OTHERWISE NOTED. ALL SANITARY VENT PIPING ABOVE THE CEILING OR WITHIN WALLS UNLESS OTHERWISE NOTED. SOLID AND WASTE PIPING SHALL BE INSTALLED TO PROVIDE PROTECTION AGAINST FREEZING PER 305.6.1. WASTE AND SOIL LINES LEAVING THE BUILDING MUST HAVE A MINIMUM COVER OF 3 INCHES.
- SOIL AND WASTE LINES 2-1/2 INCHES AND SMALLER SHALL BE SLOPED AT 1/4 INCH PER FOOT MINIMUM. SOIL AND WASTE LINES 3 INCHES TO 6 INCHES IN DIAMETER SHALL BE SLOPED AT 1/8 INCH PER FOOT MINIMUM.
- FOR WATER CLOSET WASTE CONNECTIONS, A 4 INCH BY 3 INCH CLOSEST BEND SHALL BE ACCEPTABLE. WHERE A 3 INCH BEND IS UTILIZED ON WATER CLOSETS, A 4 INCH BY 3 INCH FLANGE SHALL BE INSTALLED TO RECEIVE THE FIXTURE HORN.
- FOR PLASTIC PIPE SIZES GREATER THAN 6 INCHES, AND OTHER PIPE SIZES GREATER THAN 4 INCHES, RESTRAINTS SHALL BE PROVIDED FOR

- DRAIN PIPES AT ALL CHANGES IN DIRECTION AND AT ALL CHANGES IN DIAMETER GREATER THAN TWO PIPE SIZES. BRACES, BLOCKS, RODDING, BACKFILL AND OTHER SUITABLE METHODS AS SPECIFIED BY THE COUPLING MANUFACTURER SHALL BE UTILIZED.
- BASES OF STACKS SHALL BE SUPPORTED BY THE BUILDING STRUCTURE, MASONRY OR COMPACTED EARTH, OR OTHER SUITABLE MATERIAL, TO SUPPORT THE WEIGHT OF THE PIPING.
 - HORIZONTAL DRAIN PIPES SHALL HAVE CLEANOUTS IN ACCORDANCE WITH 708.10. EXTEND CLEANOUTS TO FINISHED FLOOR OR WALL SURFACE. LUBRICATE THREADED CLEANOUT PLUGS WITH A MIXTURE OF GRAPHITE AND UNSEED OIL. ENSURE CLEARANCE AT ALL CLEANOUTS FOR ROODING OF DRAINAGE SYSTEM. INSTALL FLOOR CLEANOUTS AT AN ELEVATION TO ACCOMMODATE FINISHED FLOOR. EVERY CLEANOUT SHALL BE INSTALLED TO ALLOW CLEANING IN THE DIRECTION OF FLOW OF THE DRAINAGE PIPE OR AT RIGHT ANGLES THERETO. CLEANOUTS ON 6 INCH AND SMALLER PIPES SHALL BE PROVIDED WITH A CLEARANCE OF NOT LESS THAN 18 INCHES FOR RODDING.
 - DRAINAGE PIPING FOR FUTURE FIXTURES SHALL TERMINATE WITH AN APPROVED CAP OR PLUG.
 - AIR ADMITTANCE VALVES SHALL BE INSTALLED AFTER THE DWV TESTING REQUIRED BY SECTIONS 312.2 AND 312.3. PROVIDE ACCESS TO ALL AIR ADMITTANCE VALVES PER CODE. INSTALLATION OF ALL AIR ADMITTANCE VALVES SHALL CONFORM TO SECTION 918 OF THE NC PLUMBING CODE. AIR ADMITTANCE VALVES SHALL CONFORM TO ASSE 1050 OR 1051.
 - INDIRECT WASTE PIPING THAT EXCEEDS 2 FEET IN DEVELOPED LENGTH MEASURED HORIZONTALLY, OR 4 FEET IN TOTAL DEVELOPED LENGTH, SHALL BE TRAPPED. THE AIR CAP BETWEEN THE INDIRECT WASTE PIPE AND THE FLOOD LEVEL RIM OF THE WASTE RECEPTOR SHALL BE A MINIMUM OF TWICE THE EFFECTIVE OPENING OF THE INDIRECT WASTE PIPE.
 - ALL FIXTURES AND OTHER RELEVANT PLUMBING EQUIPMENT, UNIONS SHALL BE GROUND-JOINT WITH BRASS SEAT. PROVIDE ACCESS TO ALL WROUNDS AT EACH JUNCTION OF DISSIMILAR MATERIALS.
 - THE PC SHALL ACCURATELY ROUGH-IN ALL FIXTURES ACCORDING TO MANUFACTURER'S INSTALLATION DIMENSIONS AND INSTRUCTIONS. OFFSET ADAPTERS AND FLEXIBLE CONNECTORS ARE NOT ACCEPTABLE. WALLS HANDLES SHALL BE MOUNTED ON THE WIDE SIDE OF TOILET AREAS FOR ADA COMPLIANCE. INSTALL EACH FIXTURE WITH TRAP EASILY REMOVABLE FOR SERVICING AND CLEANING. SEAL FIXTURES TO WALL AND FLOOR SURFACES WITH SEALANT. SOLIDLY ATTACH WATER CLOSETS TO FLOOR WITH LAG SCREWS. SEAL ALL SELF-RIMMING LAVATORIES AND SINKS (VITREOUS CHINA AND STAINLESS STEEL) WITH A COMMERCIAL GRADE PLUMBER'S PUTTY OR ACRYLIC LATEX CAULK APPLIED TO THE UNDERSIDE OF THE FIXTURE RIM IN A GENEROUS AMOUNT SO THAT WHEN FIXTURE IS SET, SEALANT SHALL Ooze OUT.
 - ALL VENT THRU THE ROOF (VTR) PENETRATIONS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR. PC SHALL PROVIDE FLASHING MATERIAL REQUIRED FOR VTR. JOINTS AT THE ROOF AND AROUND VENT PIPES, SHALL BE MADE WATER TIGHT BY THE USE OF LEAD, COPPER, GALVANIZED STEEL, ALUMINUM, OR OTHER APPROVED FLASHINGS OR FLASHING MATERIAL. MAINTAIN MINIMUM 10 FEET FROM ALL OUTSIDE AIR INTAKES.
 - INSTALL FULL OPEN VALVES PER NC PLUMBING CODE 606.1, ON THE MAIN WATER LINE INTO THE BUILDING. INSTALL CUT OFF VALVES PER MPPC 606.2



DRAWN BY: JBT
CHECKED BY: ADC
PLUMBING NOTES & SCHEDULES

SHEET NO.

P1

PROJECT NO: 22453

HEX PLAN NOTES

1.

DEMO EXISTING WATER CLOSET. DEMO AND CAP EXISTING CWS AND WASTE LINES.

2.

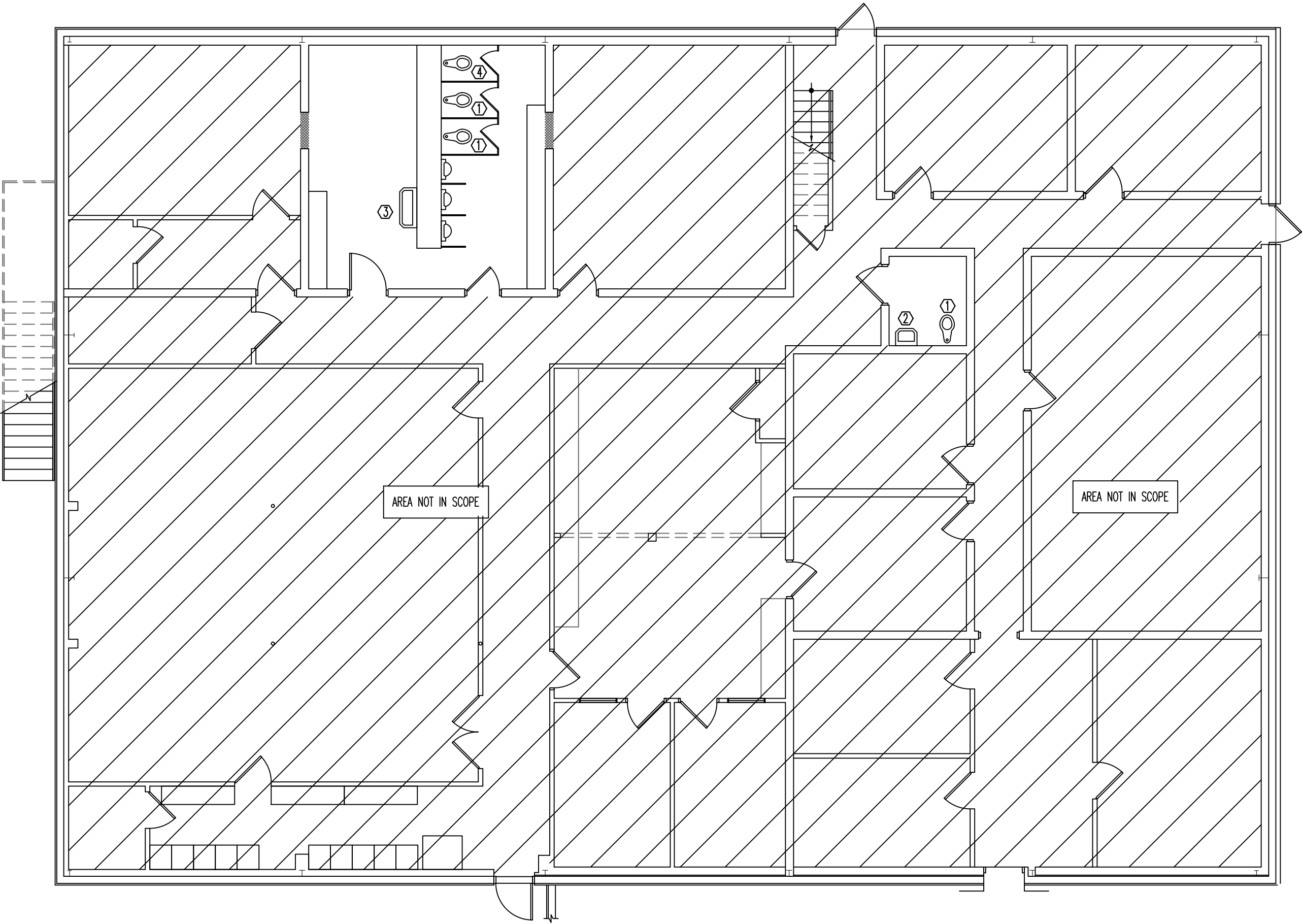
DEMO EXISTING LAVATORY. DEMO AND CAP EXISTING CWS AND WASTE LINES.

3.

DEMO EXISTING LAVATORY. EXISTING CWS, HWS, AND WASTE LINES TO REMAIN.

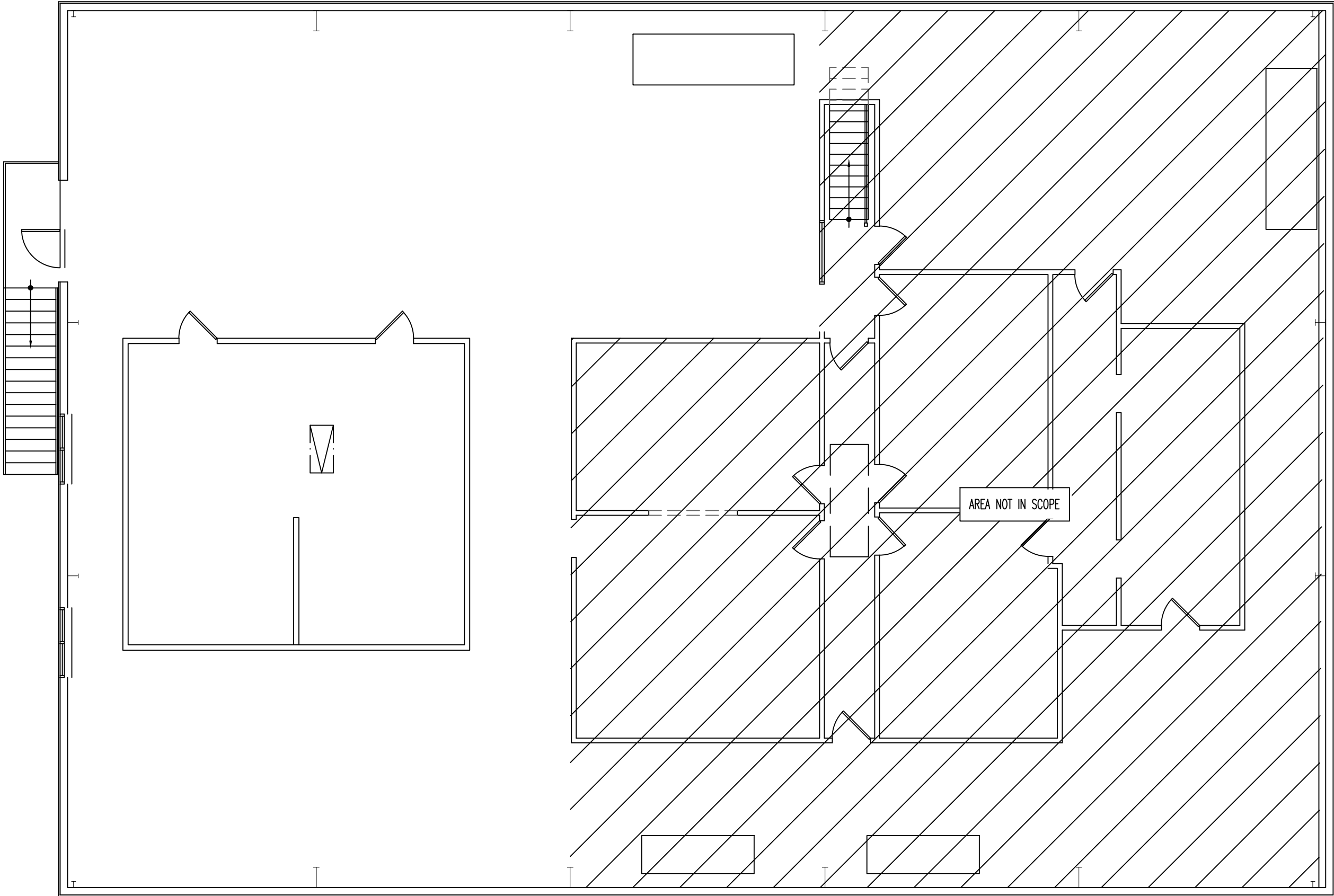
4.

DEMO EXISTING WATER CLOSET. RETAIN EXISTING CWS AND WASTE LINES FOR REUSE LATER.



DEMO PLUMBING PLAN - FIRST FLOOR - SCALE: 1/8" = 1'-0"

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DEMO PLUMBING PLAN - SECOND FLOOR - SCALE: 1/8" = 1'-0"

2

Kilian Engineering, Inc.

Professional Engineer

SEAL 048744

KITTY D. COCHRAN

Professional Engineer

SEAL

KILIAN ENGINEERING, INC.

Professional Engineer

SEAL 048744

KITTY D. COCHRAN

Professional Engineer

SEAL

KILIAN ENGINEERING, INC.

BUILDING RENOVATIONS

CITY OF ROCKY MOUNT OPERATIONS CENTER

628 ALBEMARLE AVE. ROCKY MOUNT, NC

REVISION:

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DRAWN BY: JBT

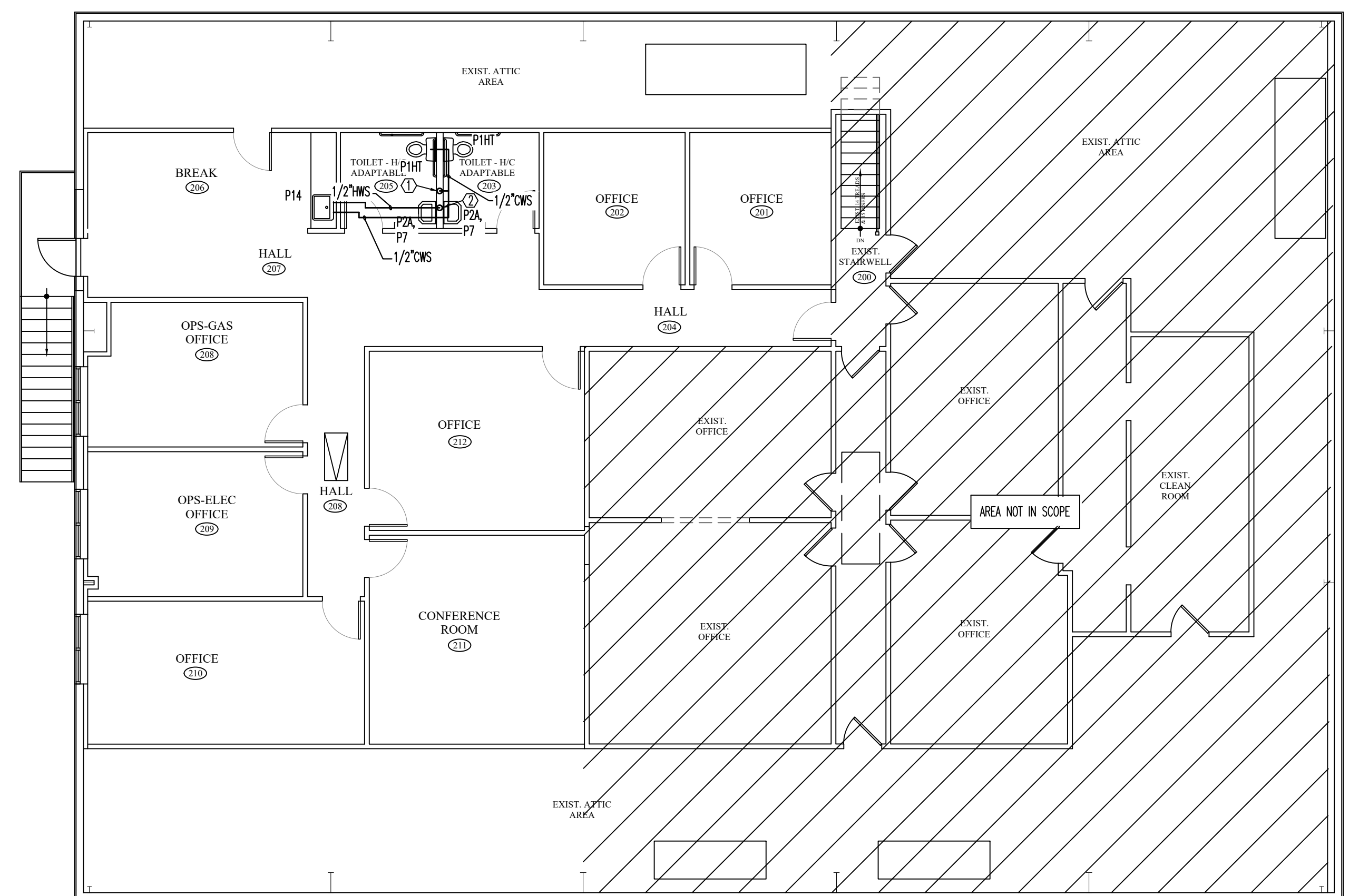
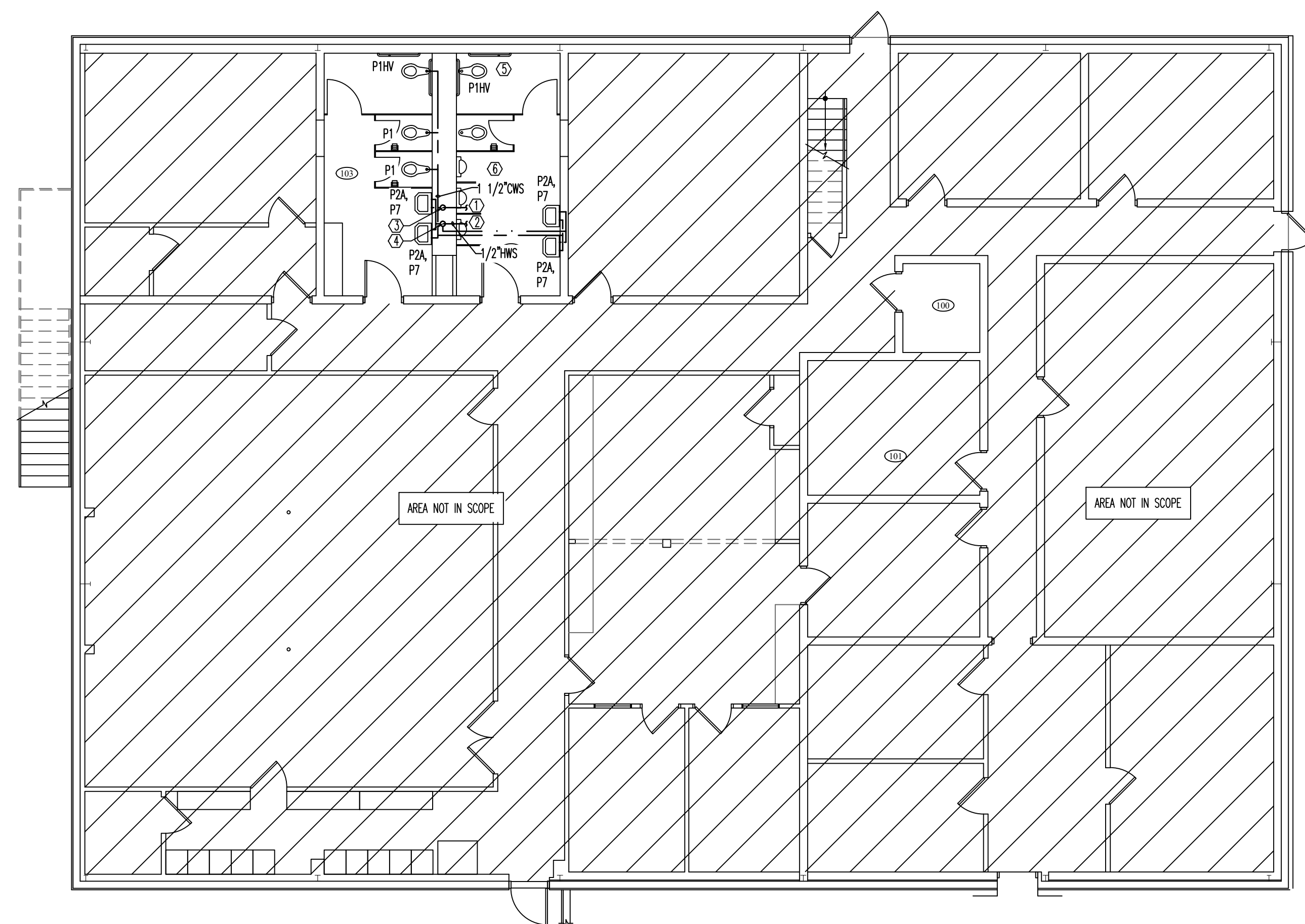
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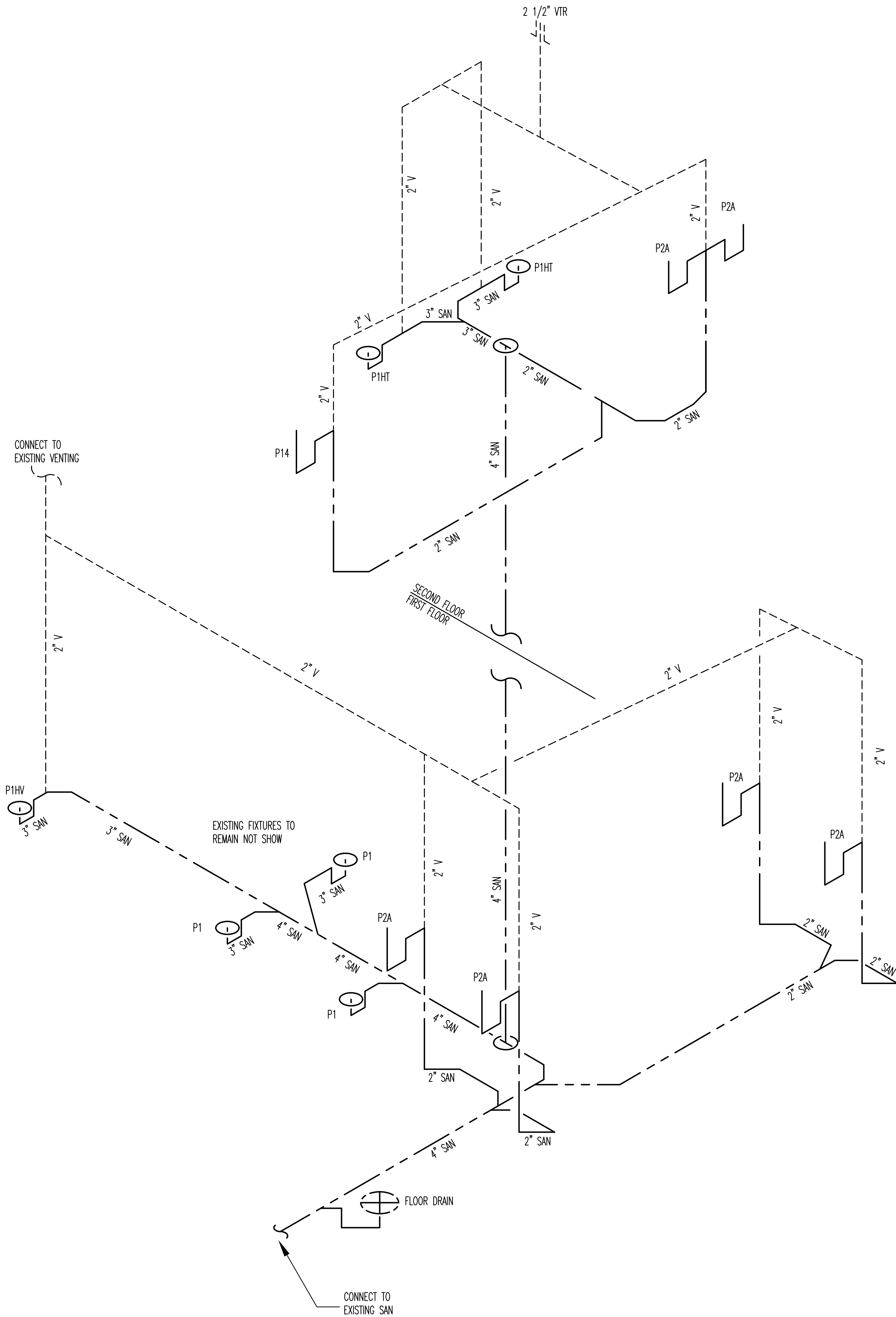
DEMO PLUMBING PLANS

SHEET NO.

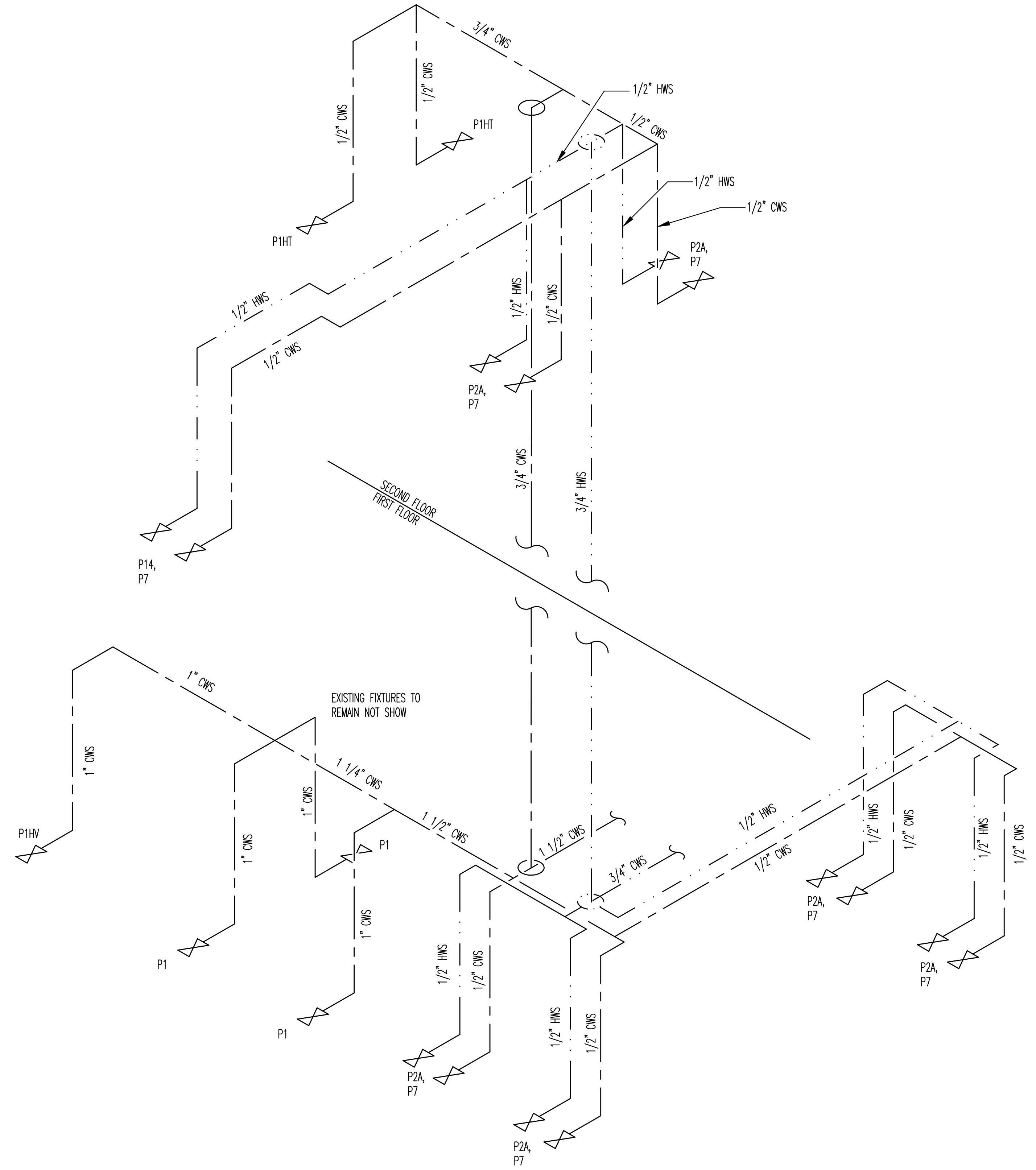
P2

PROJECT NO: 22453





WASTE RISER - NOT TO SCALE 1

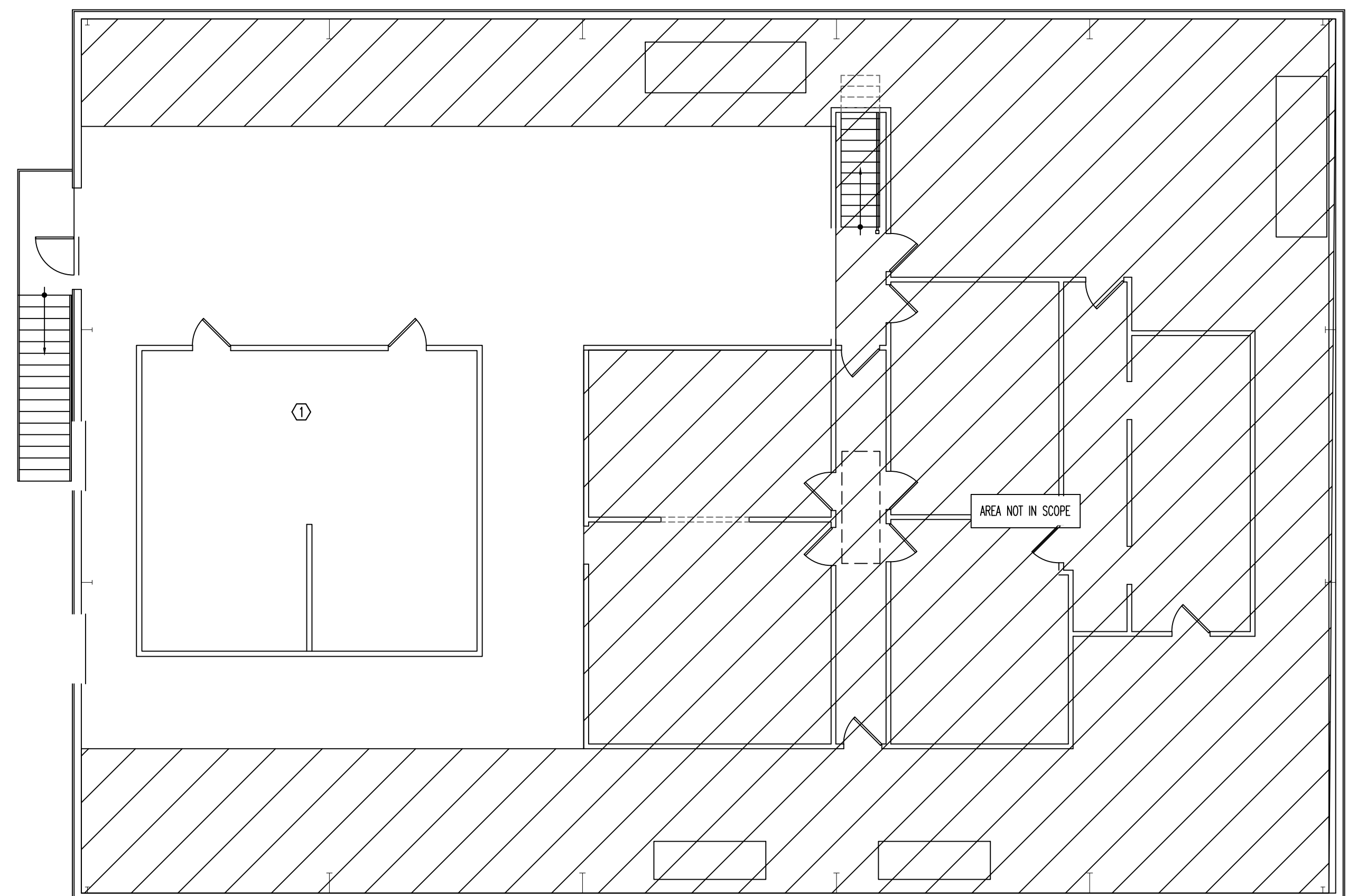
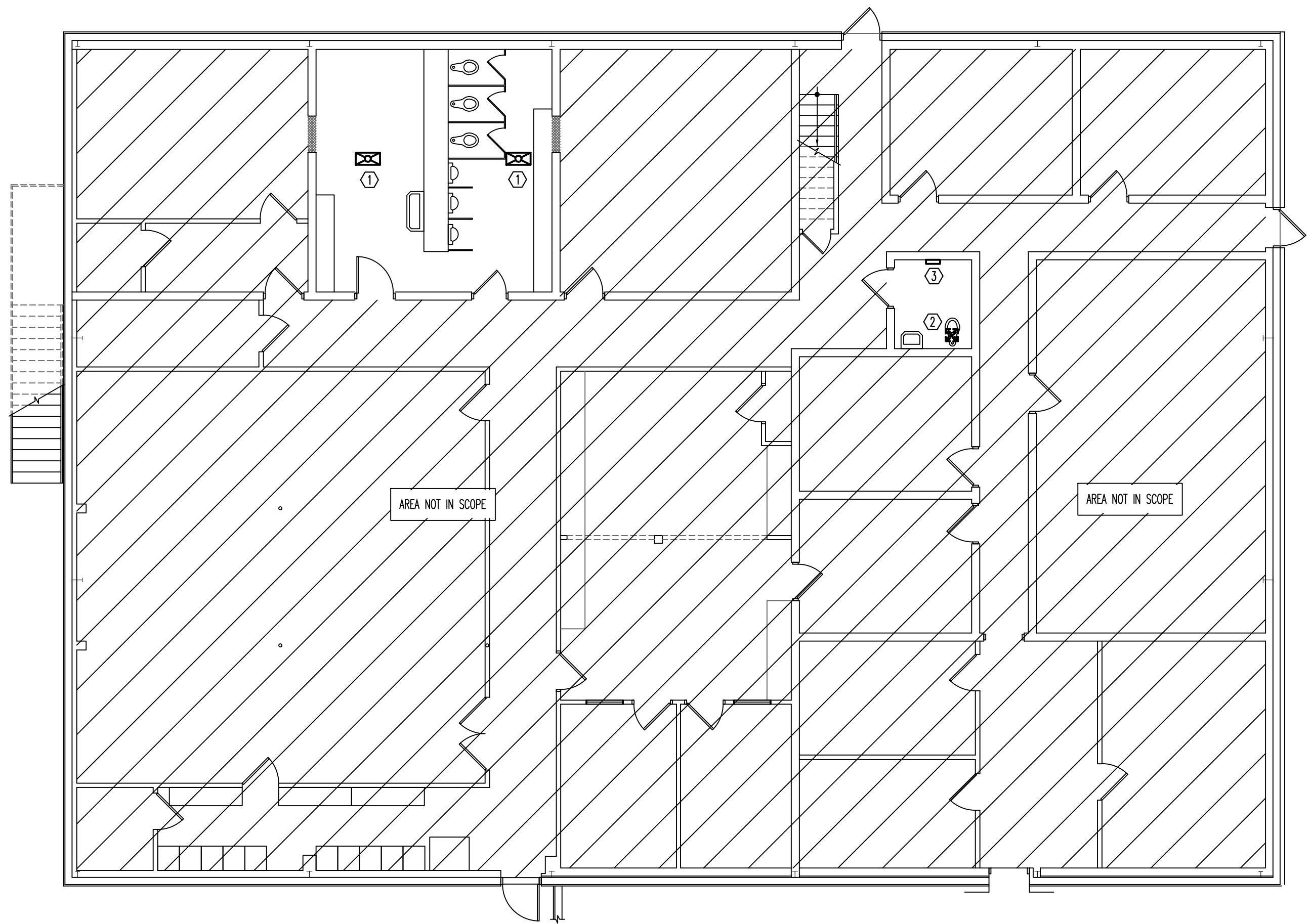


SUPPLY RISER - NOT TO SCALE 2

REVISION:									

ISSUED:									

DRAWN BY: JBT
CHECKED BY: KDC
WASTE/SUPPLY RISERS



HEX PLAN NOTES

1.

EXISTING HVAC TO REMAIN AS IS.

2.

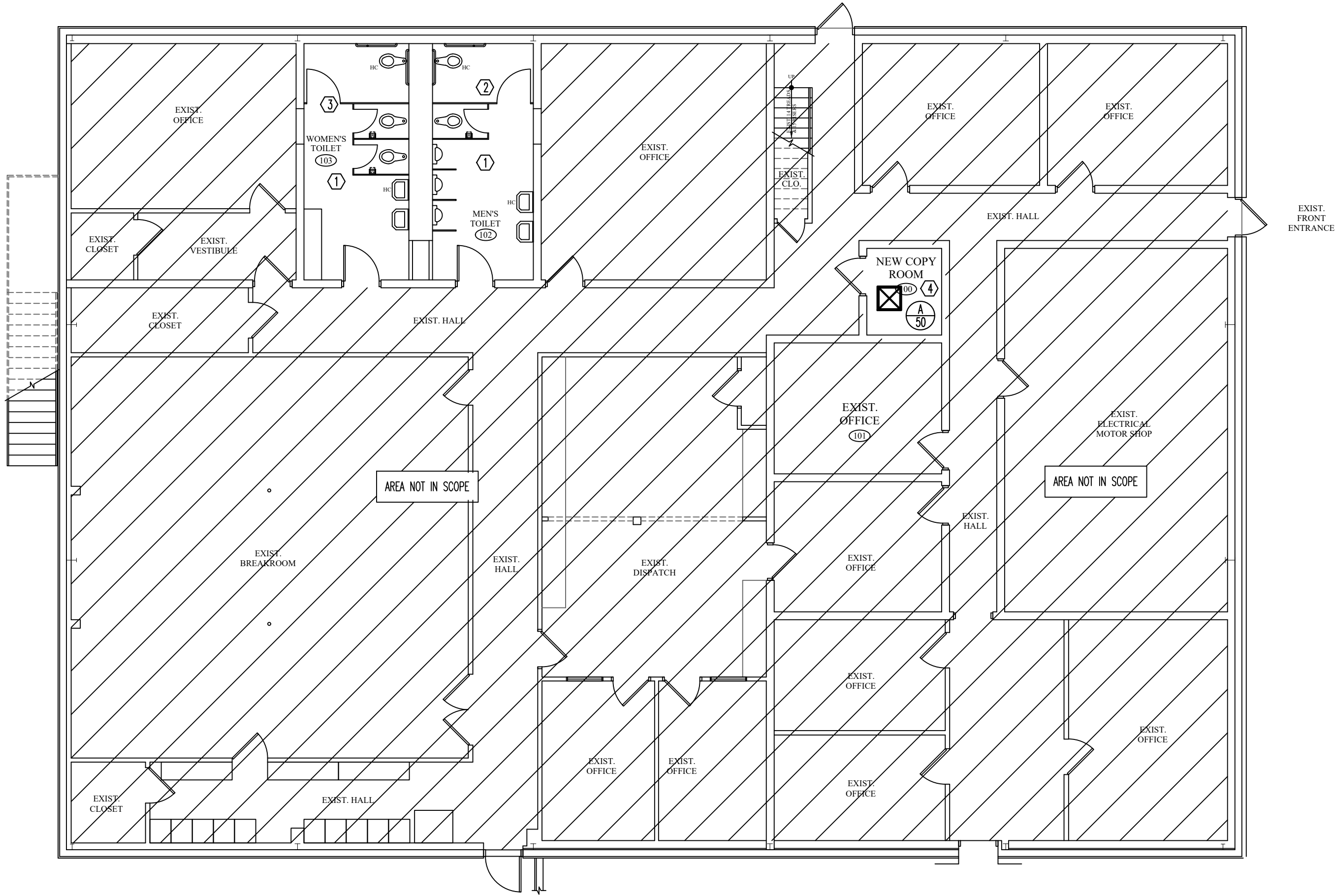
EXISTING EXHAUST FAN TO REMAIN AS IS.

3.

MC TO VERIFY THAT EXISTING EXHAUST FAN PULLS 210 CFM. IF NOT REPLACE WITH EF-3 AND SHOWN ON THE EXHAUST FAN TABLE ON SHEET M1. EXHAUST DUCT TO BE 8".

4.

ADD 50 CFM TO COPIER ROOM. CONNECT TO MAIN TRUNK DUCT VIA 6" DUCT. REBALANCE THE REST OF THE SYSTEM.



MECHANICAL PLAN - FIRST FLOOR - SCALE: 1/8" = 1'-0"

1

HEX PLAN NOTES

1.

10" FRESH AIR DUCT FROM EXTERIOR OF BUILDING. MAINTAIN 10" DISTANCE FROM PLUMBING AND EXHAUST VENTS.

2.

AHU-1 LOCATED ABOVE CEILING. ROUTE CONDENSATE TO EXTERIOR TO NEAREST ROOF DRAIN LEADER OR TO FRENCH DRAIN.

3.

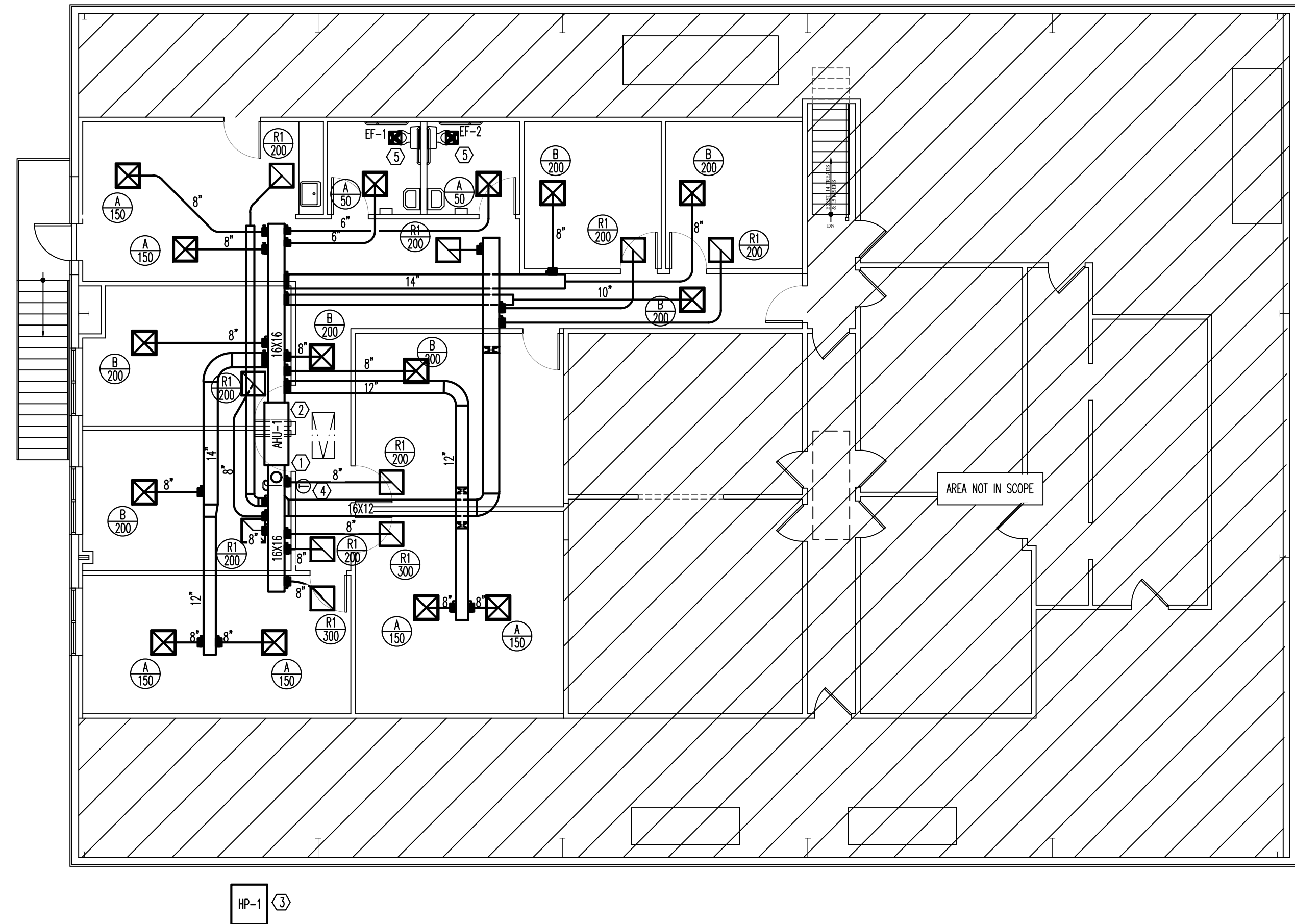
HP-1 TO BE LOCATED WITH OTHER OUTDOOR UNITS. VERIFY LOCATION.

4.

THERMOSTAT FOR AHU-1.

5.

EXHAUST FAN TO BE DUCTED TO EXTERIOR VIA 46" DUCT.



MECHANICAL PLAN - SECOND FLOOR - SCALE: 1/8" = 1'-0"

2

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BUILDING RENOVATIONS

CITY OF ROCKY MOUNT OPERATIONS CENTER

628 ALBEMARLE AVE. ROCKY MOUNT, NC

REVISION:

ISSUED:

ISSUED FOR PERMITTING CONSTRUCTION

1/27/22

DATE

DRAWN BY: JBT

CHECKED BY: ADC

MECHANICAL PLANS

SHEET NO.

M3

PROJECT NO: 22453

LED LIGHT FIXTURE SCHEDULE											
MARK	DESCRIPTION	LOUVER/LENS	LAMPS - SYLVANIA		VOLTAGE	INPUT WATTAGE	MOUNTING	REMARKS	MFG	MODEL	
			TYPE	CCT							
A	LED WRAP AROUND	ACRYLIC	LED	3500K	120V	32	SURFACE	2	LITHONIA	SRL4-LP835	
B	2X4 LED TROFFER	ACRYLIC	LED	3500K	120V	38.8	RECESSED	2	LITHONIA	EPANL-24-40L-35K	
EXH	LED EXIT/COMBO W/ BATTERY BACKUP	ACRYLIC	LED	N/A	120V	4	VARIES	1	LITHONIA	LHXM-LED-R-SD	
EM2	DUAL HEAD EMERGENCY FIXTURE	ACRYLIC	LED	N/A	120V	2	VARIES	1	LITHONIA	ELM2-LED-SD	
C	EXISTING WRAP AROUND	-	FLUORESCENT	N/A	120V	56	SURFACE	-	-	EXISTING	
D	EXISTING 2X4 TROFFER	-	FLUORESCENT	N/A	120V	96	RECESSED	-	-	EXISTING	
E	EXISTING 2X4 PARABOLIC TROFFER	-	FLUORESCENT	N/A	120V	96	RECESSED	-	-	EXISTING	
F	EXISTING 8' SHOP LIGHT	-	FLUORESCENT	N/A	120V	160	SUSPENDED	-	-	EXISTING	
G	EXISTING CIRCULAR SURFACE MOUNT LIGHT	-	FLUORESCENT	N/A	120V	28	SURFACE	-	-	EXISTING	
H	EXISTING VANITY LIGHT	-	FLUORESCENT	N/A	120V	28	SURFACE	-	-	EXISTING	

1. FIXTURE SHALL HAVE BATTERY BACKUP FOR 90 MINUTE ILLUMINATION.
2. OR EQUAL BY COOPER OR DAY-BRITE LIGHTING

PANEL G											
CKT	LOAD	BKR	LOAD KVA	PH	LOAD KVA	BKR	LOAD	CKT			
1	MAIN	100/3	0.00	A	0.00	60/2	AIR HANDLER	2			
3			0.00	B	0.00			4			
5			0.00	C	0.00			6			
7	METER SHOP LIGHT	20/1	0.00	A	0.00	30/2	CONDENSING UNIT	8			
9	JOEY'S OFFICE	20/1	0.00	B	0.00			20/1	GAS METER SHOP SHORT BENCH	10	
11	RECPS GAS MOTOR SHOP	20/1	0.00	C	0.00			20/1	GAS METER SHOP LONG BENCH	12	
13	LOYD LIGHTS	20/1	0.00	A	0.00	20/3	VAC PUMP	14			
15	LOYD REC	20/1	0.00	B	0.00			16			
17	HAS / FANS	20/1	0.00	C	0.00			18			
19	NICK'S OFFICE REC	20/1	0.00	A	0.00	20/1	CONF. ROOM LIGHTS	20			
21	DAVID'S OFFICE REC	20/1	0.00	B	0.00	20/1	DAVID / NICK LIGHTS	22			
23	SPACE	-	0.00	C	1.62	20/1	REC - OFFICE 201, 202/HALL 204, 208	24			
25	COPY ROOM	20/1	1.08	A	0.90	20/1	REC - RM 206, 207/2ND FLR HVAC SVC	26			
27	SPACE	-	0.00	B	1.44	20/1	REC - CONFERENCE RM 211	28			
29	SPACE	-	0.00	C	0.00	-	SPACE	30			
			KVA	PH	AMPS						
			2.0	A	17						
			1.4	B	12	NEW LOADS ONLY					
			1.6	C	14						
VOLTAGE/PHASE						208Y/120V, 3P, 4W					
BUS RATING						EXISTING					
MAIN CIRCUIT BREAKER RATING						100A					
AIC RATING						EXISTING					
SERVICE ENTRANCE RATED						NO					
ENCLOSURE						NEMA 1					
MOUNTING						SURFACE					

* NEW LOADS ONLY SHOWN

PANEL A									
CKT	LOAD	BKR	LOAD KVA	PH	LOAD KVA	BKR	LOAD	CKT	
1	FURNACE	60/2	0.00	A	0.00	30/2	AIR HANDLER	2	
3			0.00	B	0.00			4	
5	HP-1	50/2	3.36	C	0.00	20/1	RECPT	6	
7			3.36	A	0.00	20/1	EXHAUST FAN P. B.	8	
9	AHU-1	30/2	3.00	B	0.00	20/1	C. BOOTH LIGHTS	10	
11			3.00	C	0.00	20/1	DRINK MACHINE OUTSIDE	12	
			KVA	PH	AMPS				
			3.4	A	28	NEW LOADS ONLY			
			3.0	B	25				
			6.4	C	53				
VOLTAGE/PHASE						208Y/120V, 3P, 4W			
BUS RATING						100A			
MAIN CIRCUIT BREAKER RATING						100A			
AIC RATING						EXISTING			
SERVICE ENTRANCE RATED						NO			
ENCLOSURE						NEMA 1			
MOUNTING						SURFACE			

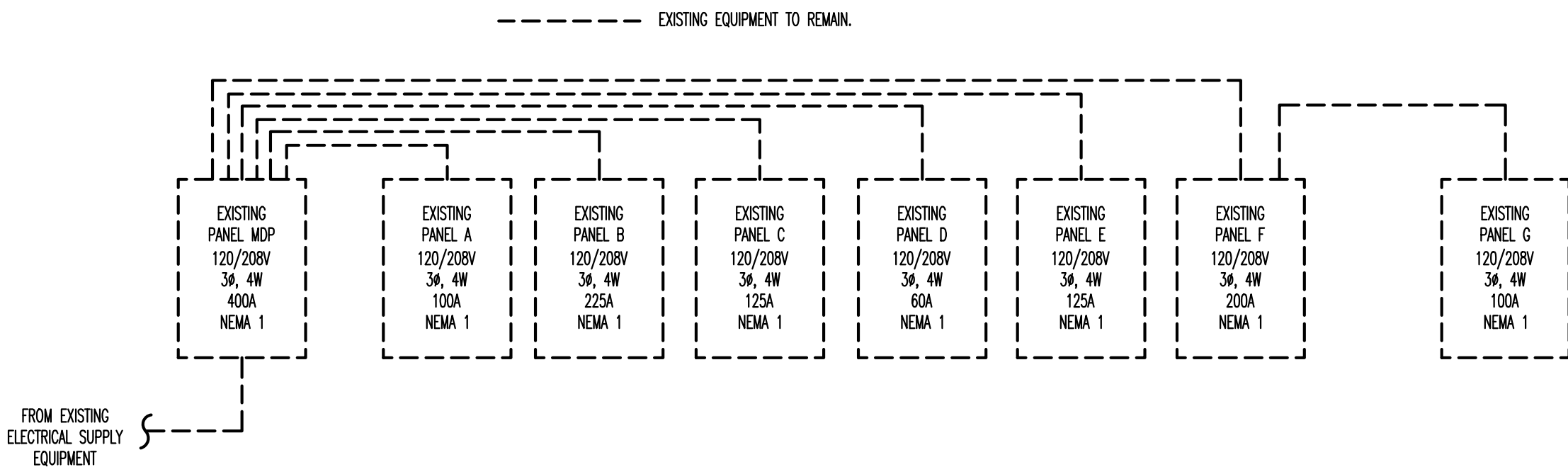
* NEW LOADS ONLY SHOWN

PANEL MDP									
CKT	LOAD	BKR	LOAD kVA	PH	LOAD kVA	BKR	LOAD	CKT	
1	PANEL A	100/3	0.00	A	0.00	225/3	PANEL B	2	
3			0.00	B	0.00			4	
5			0.00	C	0.00			6	
7	PANEL C	125/3	0.00	A	0.00	60/3	PANEL D	8	
9			0.00	B	0.00			10	
11			0.00	C	0.00			12	
13	PANEL E	125/3	0.00	A	0.00	200/3	PANEL F	14	
15			0.00	B	0.00			16	
17			0.00	C	0.00			18	
			kVA	PH	AMPS				
			0	A	0				
			0	B	0				
			0	C	0				
VOLTAGE/PHASE					208Y/120V, 3P, 4W				
BUS RATING					400A				
MAIN CIRCUIT BREAKER RATING					MLD				
AIC RATING					EXISTING				
SERVICE ENTRANCE RATED					YES				
ENCLOSURE					NEMA 1				
MOUNTING					SURFACE				

- * PANEL SHOWN FOR REFERENCE ONLY
- * EACH BREAKER TO REMAIN LABELED SERVICE DISCONNECT

PANEL MDP - NEC ELECTRIC DEMAND SUMMARY 208Y/120V, 3P, 4W							
EQUIPMENT	DEMAND FACTOR	KVA			LOAD KVA	NEC REFERENCE	NOTES/CALCULATIONS
EXISTING	125%	26.17	26.17	26.17	78.51	220.87	
RECEPTABLES < 10 KVA	100%	1.98	1.44	1.62	5.04	220.44	
HVAC	100%	3.40	3.00	6.40	12.80	---	BASED ON MCA
DEMAND KVA PER PHASE		31.55	30.61	34.19			
DEMAND AMPS PER PHASE		263	255	285			

ELECTRICAL METER READINGS FROM PAST THREE YEARS SHOW MAXIMUM POWER USAGE IS 175 AMPS.



LIGHTING DEVICE LEGEND		
SYMBOL	DESCRIPTION	REMARKS
⚡	SINGLE POLE WALL SWITCH	HEAVY DUTY, AC ONLY, COMMERCIAL GRADE GENERAL USE SNAP SWITCH COMPLYING WITH NEMA WD 6 AND WD 1. IVORY PLASTIC BODY WITH TOGGLE HANDLE. 120-277V, 20A MEET FEDERAL SPECIFICATION W-S-896.
⚡ _M	WALL MOUNTED OCCUPANCY SENSOR	WATTSOPPER DW-100 LINE VOLTAGE OCCUPANCY SENSOR. ULTRA SONIC AND INFRARED.
⚡ _{LV}	LOW VOLTAGE SWITCH	WATTSOPPER LVS-1 LOW VOLTAGE MOMENTARY CONTROL SWITCH.
⊕	CEILING OCCUPANCY SENSOR	WATTSOPPER, DT-300 LOW VOLTAGE OCCUPANCY SENSOR. 360° ULTRA SONIC AND INFRARED.
Ⓚ	POWER PACK	WATTSOPPER, B2-150 LOW VOLTAGE POWER PACK FOR CEILING PACK SENSORS.
☒	EXHAUST FAN	VENT FAN, 120V, CFM AS NOTED MC TO PROVIDE AND VENT, EC TO WIRE.

POWER DEVICE LEGEND		
SYMBOL	DESCRIPTION	REMARKS
▶	DATA AND TELEPHONE JACK	PHONE/DATA OUTLET. EC TO INSTALL 3/4" WITH PULL-STRING FROM OUTLET BOX TO ABOVE CEILING FOR FUTURE USE. JACKS AND COMMUNICATION CABLEING BY OTHERS.
⊕	DUPLEX RECEPTACLE	NEMA 5-20R, HEAVY DUTY, COMMERCIAL GRADE, 125V, 20A COMPLYING WITH NEMA WD 6 AND WD 1. GFCI OR AFCI IF NOTED. 'WP' DENOTES WEATHERPROOF COVER. 'CH' DENOTES CHOUNTER HEIGHT. LISTED TAMPERPROOF IF NOTED. MEET FEDERAL SPECIFICATION W-C-596.
⊕	QUAD RECEPTACLE	QUAD RECEPTACLE OF SAME CHARACTERISTICS AS DUPLEX TYPE ABOVE.
⊕	DUPLEX FLOOR RECEPTACLE	DUPLEX RECEPTACLE OF SAME CHARACTERISTICS AS ABOVE WITH BRASS COVER. MOUNT IN FLOOR. ALL FLOOR BOXES MUST BE LISTED FOR FLOOR APPLICATION.
⊕	FUSIBLE DISCONNECT SWITCH	HEAVY DUTY TYPE. TYPE 1 ENCLOSURE IN INTERIOR APPLICATIONS, TYPE 3R ENCLOSURE IN EXTERIOR APPLICATIONS, FUSE ACCORDING TO NAMEPLATE DATA.
⊕	DISCONNECT SWITCH	HEAVY DUTY TYPE. TYPE 1 ENCLOSURE IN INTERIOR APPLICATIONS, TYPE 3R ENCLOSURE IN EXTERIOR APPLICATIONS.

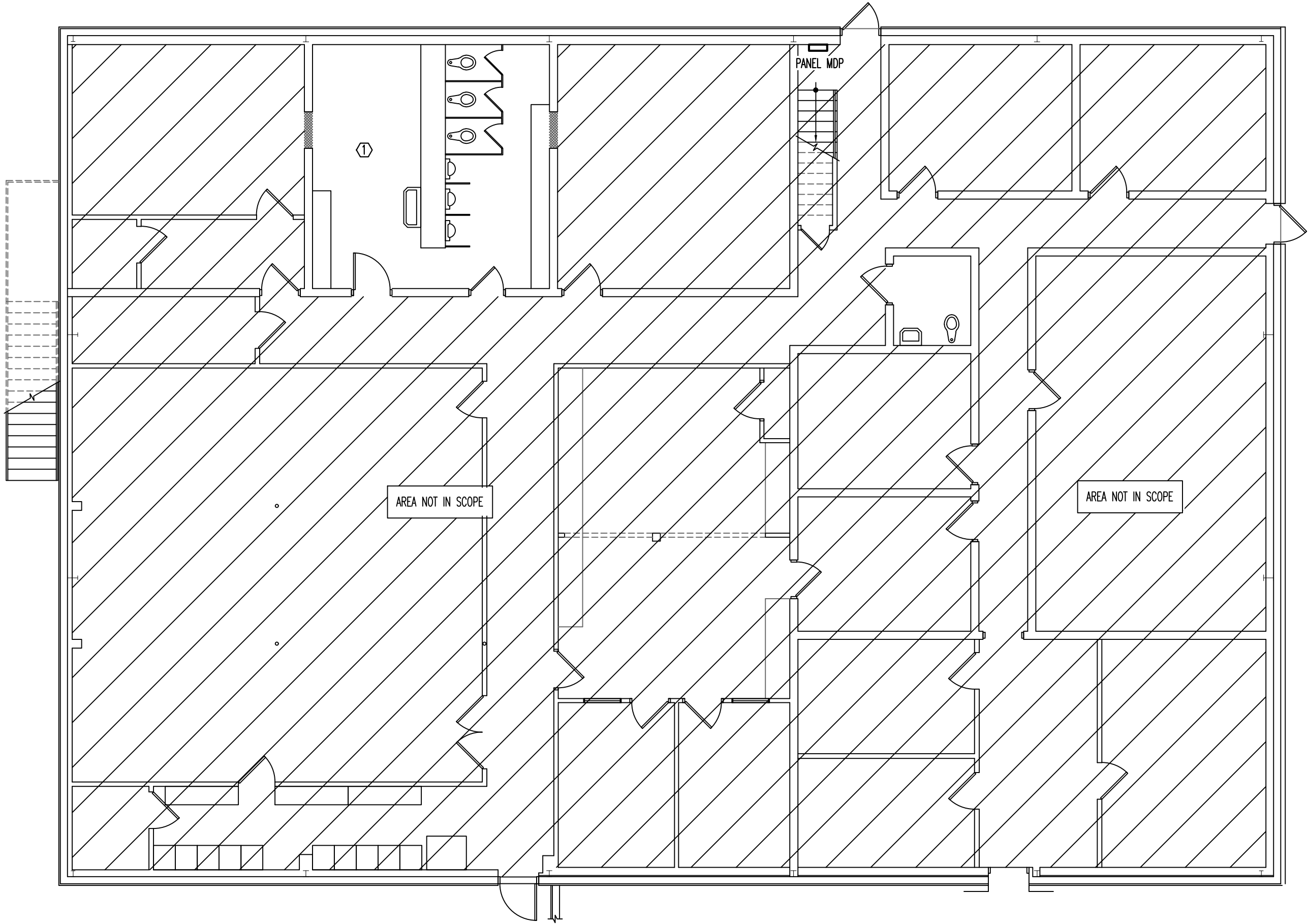
GENERAL ELECTRICAL NOTES:

ADMINISTRATIVE:

- THE FOLLOWING ABBREVIATIONS SHALL APPLY TO NOTES AND PLANS:
PC - PLUMBING CONTRACTOR, EC - ELECTRICAL CONTRACTOR, MC - MECHANICAL CONTRACTOR, GC - GENERAL CONTRACTOR, FASC - FIRE ALARM SYSTEM CONTRACTOR, AHU - AUTHORITY HAVING JURISDICTION.
"PROVIDE" MEANS TO FURNISH AND INSTALL. THE ELECTRICAL CONTRACTOR SHALL ALSO INSTALL MATERIALS AND EQUIPMENT FURNISHED BY OTHERS AND THE GENERAL CONTRACTOR AS REQUIRED.
EC SHALL PROVIDE LABOR, MATERIALS, EQUIPMENT, AND SERVICES NECESSARY AND REASONABLY INCIDENTAL TO INSURE A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. MINOR ITEMS, ACCESSORIES, AND DEVICES REASONABLY INFERRABLE AS NECESSARY FOR THE COMPLETION AND PROPER OPERATION OF ANY ELECTRICAL SYSTEM SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
WORKMANSHIP SHALL BE IN ACCORDANCE WITH NECA 1 "STANDARD PRACTICE FOR GOOD WORKMANSHIP IN ELECTRICAL CONTRACTING."
ALL MATERIALS AND EQUIPMENT SHALL BE DELIVERED TO THE SITE AND UNLOADED BY THE ELECTRICAL CONTRACTOR AT AN APPROVED LOCATION. THE ELECTRICAL CONTRACTOR SHALL PROTECT ALL MATERIALS AND EQUIPMENT FROM BREAKAGE, THEFT, AND THE ELEMENTS. ALL MATERIALS AND EQUIPMENT SHALL REMAIN THE PROPERTY OF THE ELECTRICAL CONTRACTOR UNTIL THE PROJECT HAS BEEN COMPLETED AND TURNED OVER TO

HEX PLAN NOTES

1. ALL EXISTING POWER IN ROOM TO REMAIN AS IS.

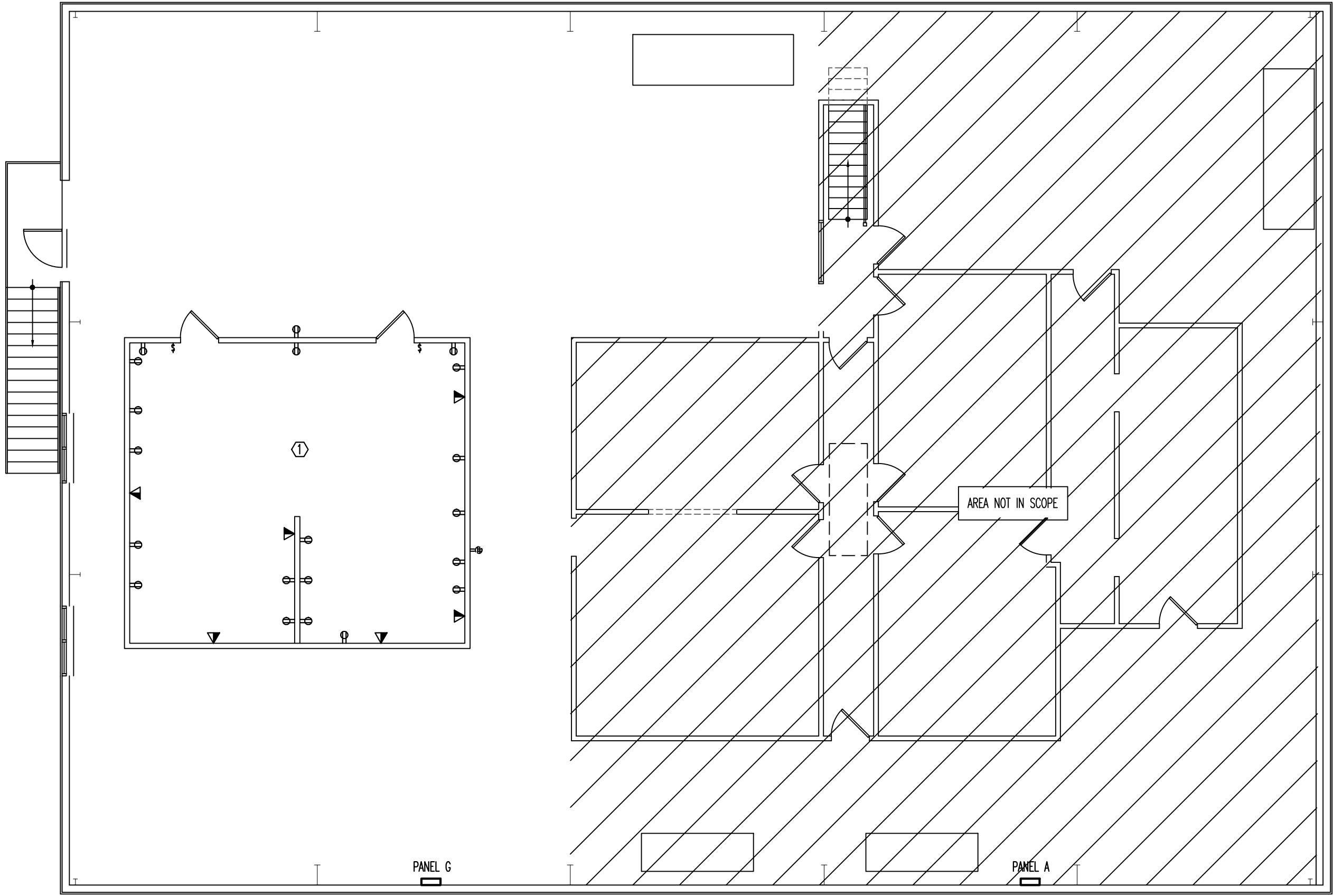


DEMO POWER PLAN - FIRST FLOOR - SCALE: 1/8" = 1'-0"

1

HEX PLAN NOTES

1. DEMO ALL EXISTING POWER AND DATA IS OFFICE AREA.



DEMO POWER PLAN - SECOND FLOOR - SCALE: 1/8" = 1'-0"

2

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NORTH CAROLINA

BUILDING RENOVATIONS

CITY OF ROCKY MOUNT OPERATIONS CENTER

628 ALBEMARLE AVE, ROCKY MOUNT, NC

REVISION:

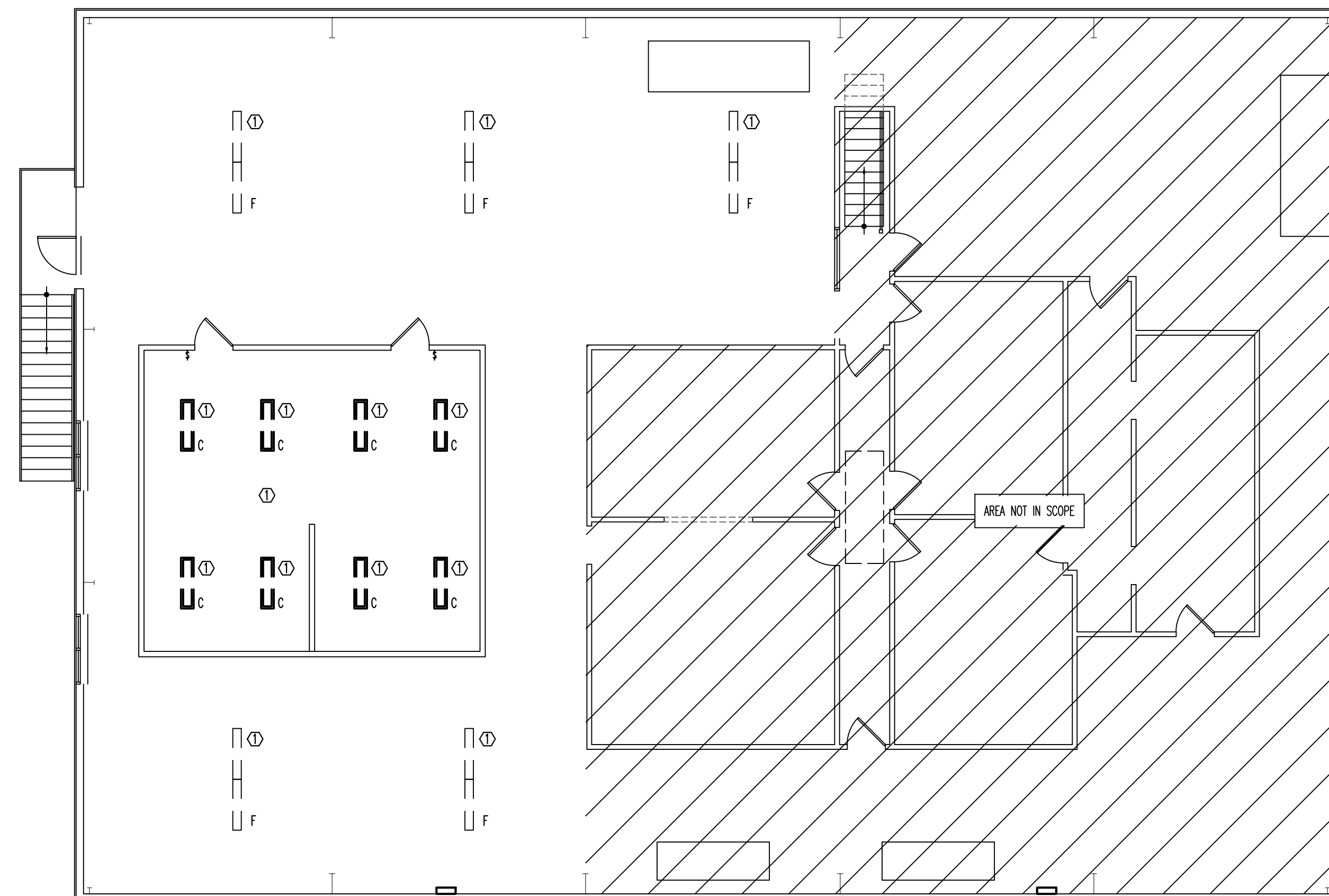
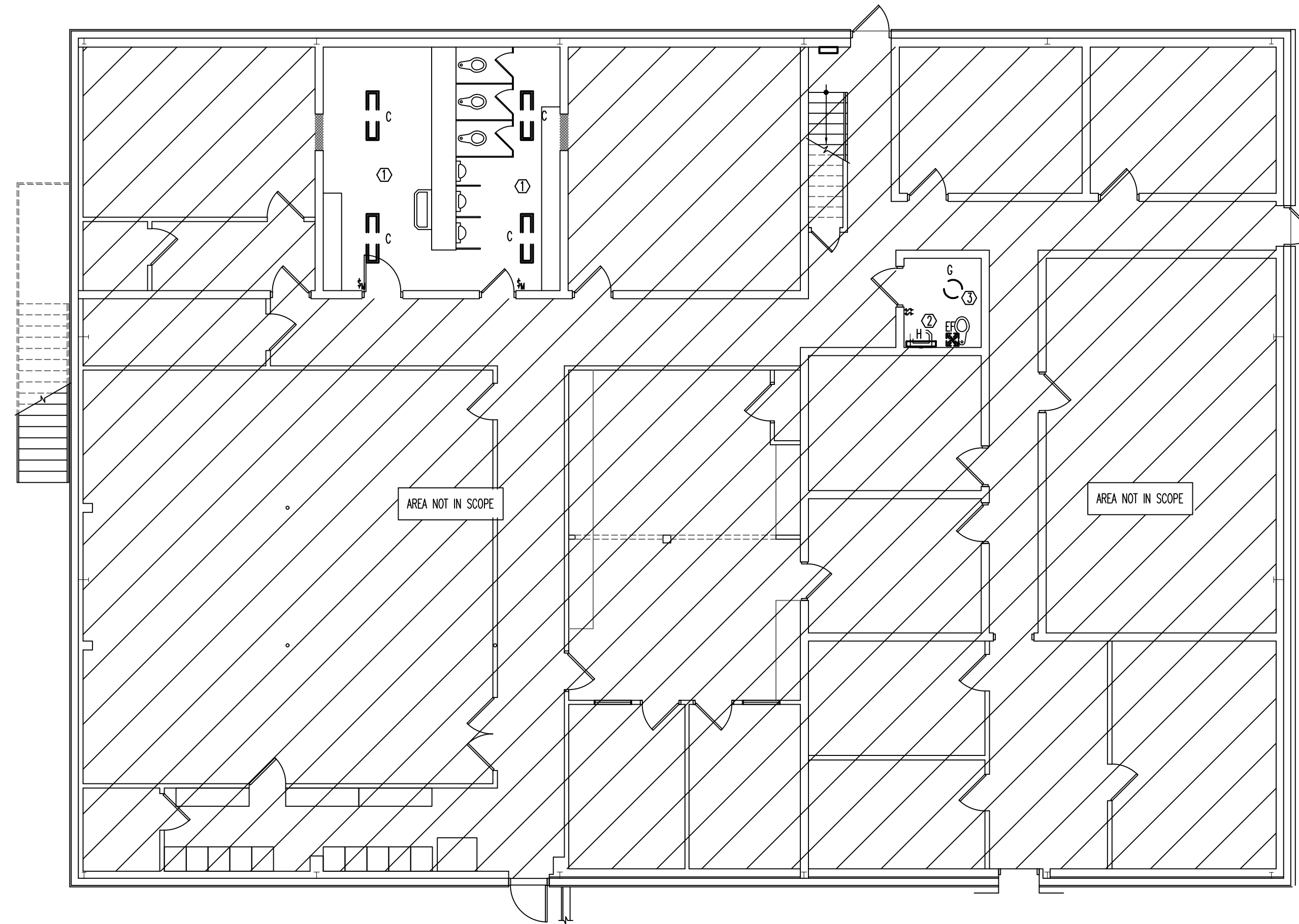
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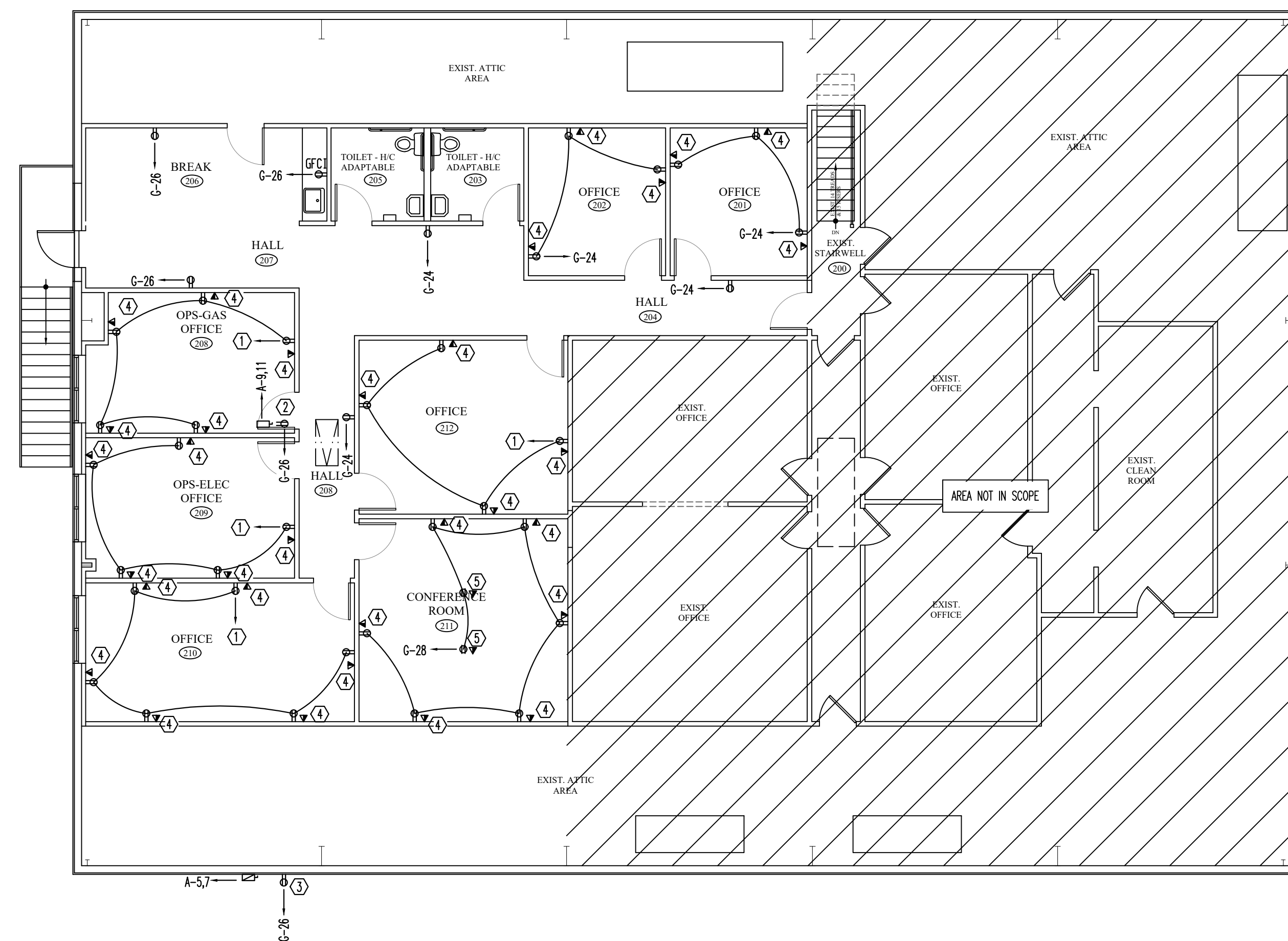
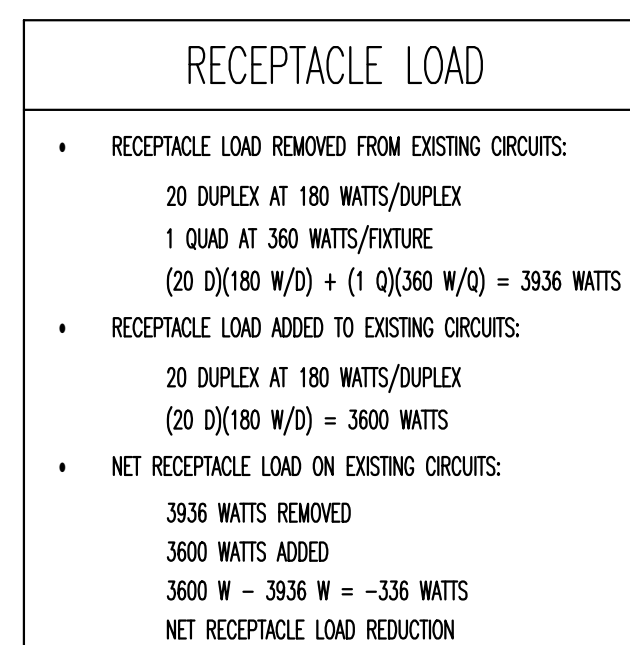
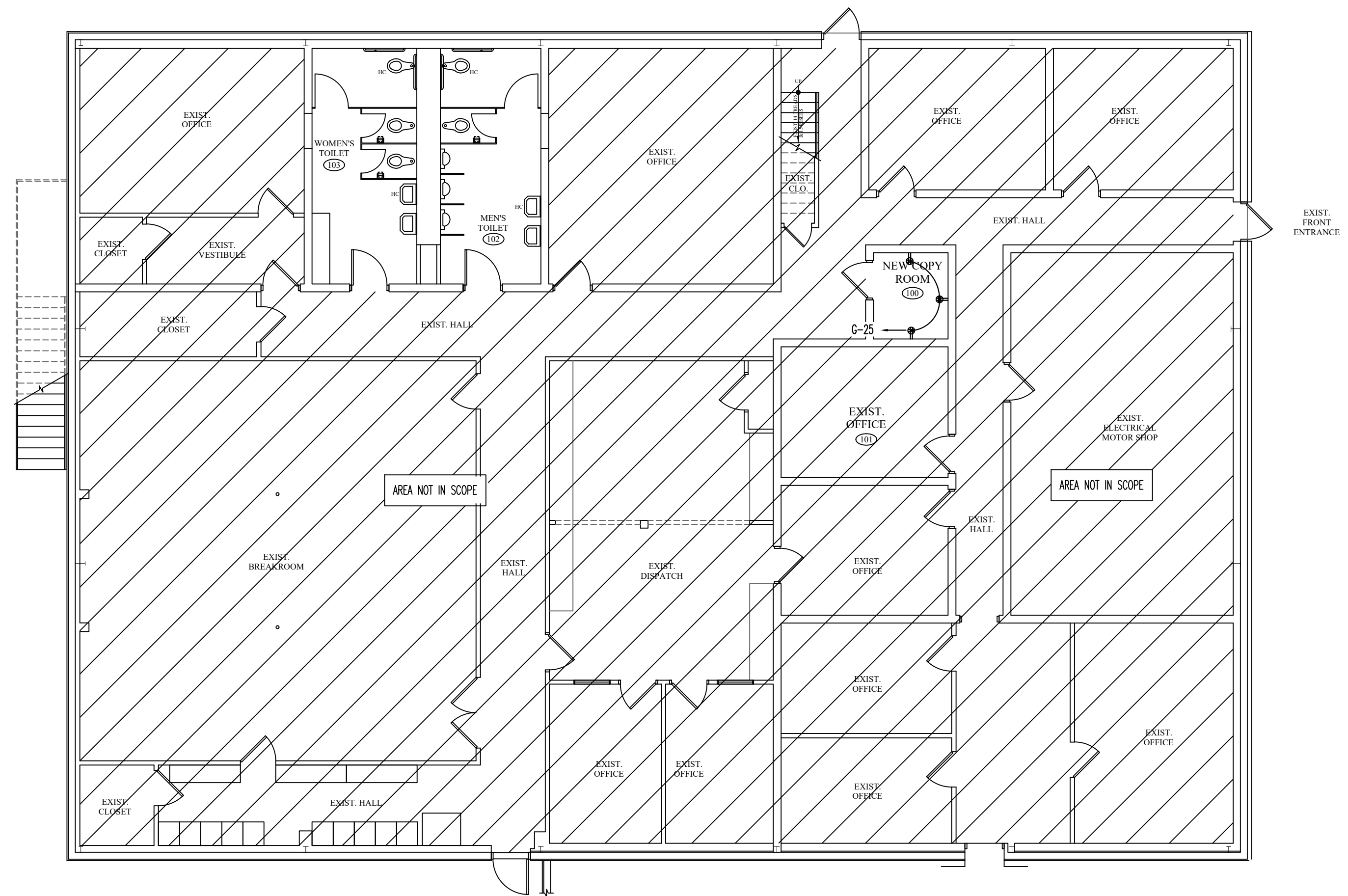
DRAWN BY: JBT
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DEMO POWER PLANS

SHEET NO.

E2

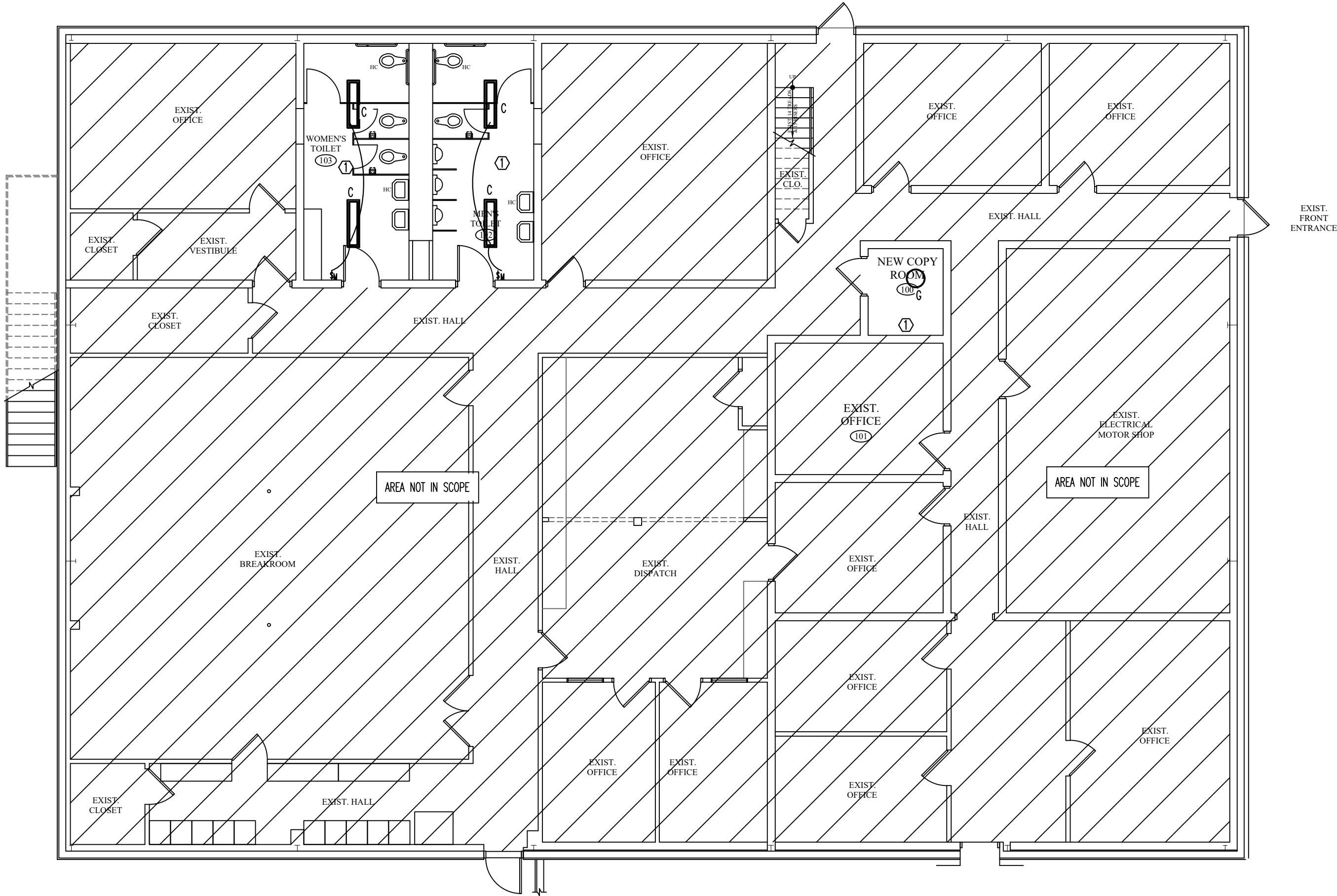
PROJECT NO: 22453





HEX PLAN NOTES

1. EXISTING LIGHTING IN ROOM TO REMAIN AS IS.



LIGHTING PLAN - SCALE: 1/8" = 1'-0"

1

HEX PLAN NOTES

1. FIXTURE TO BE SUSPENDED MOUNT. CONNECT TO EXISTING LIGHTING CIRCUIT AND CONTROLS.

2. CONNECT TO EXISTING LIGHTING CIRCUIT.

LIGHTING LOAD

• LIGHTING LOAD REMOVED:

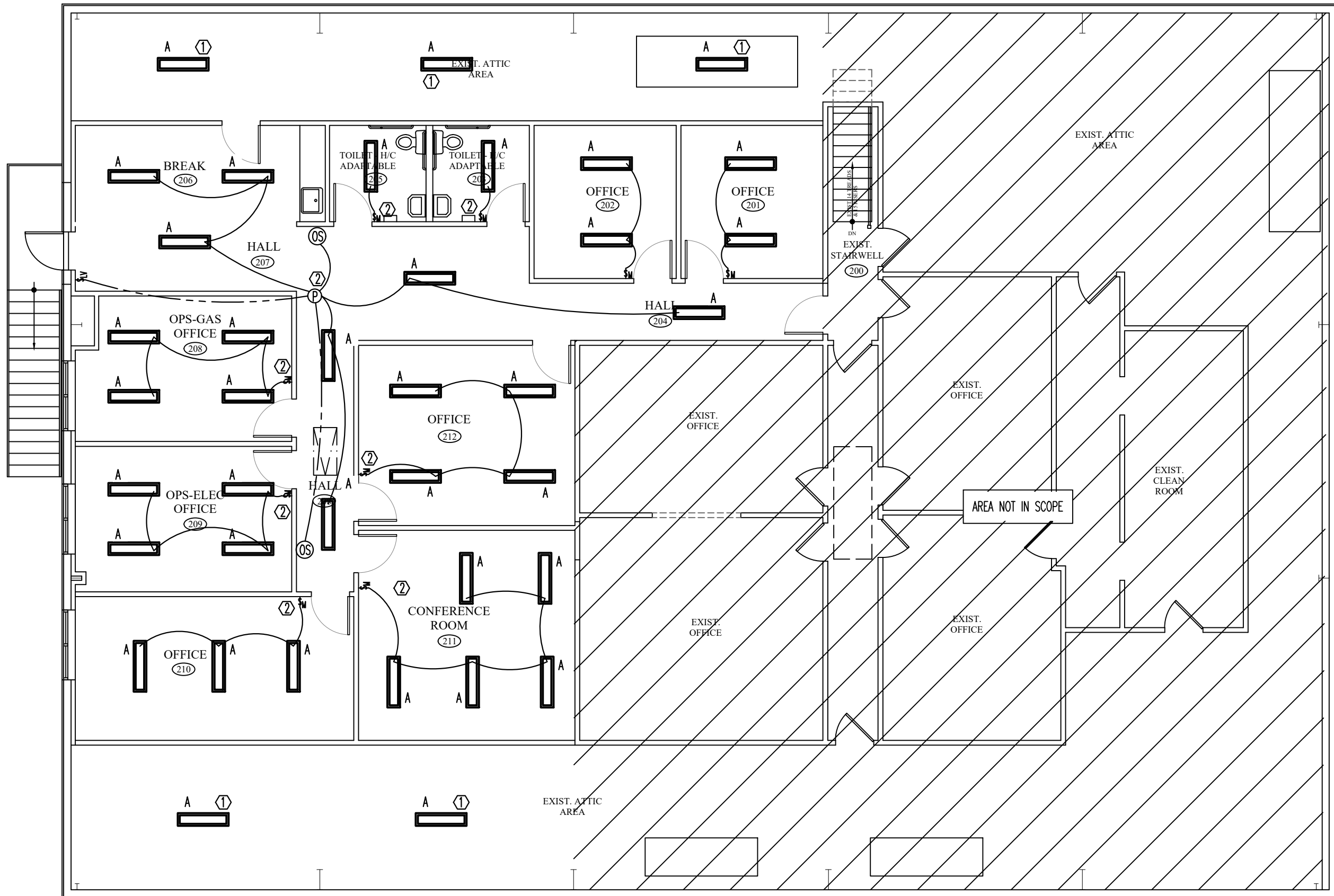
5 FIXTURES AT 160 WATTS/FIXTURE
8 FIXTURES AT 56 WATTS/FIXTURE
(5 F)(160 W/F) + (8 F)(56 W/F) = 1248 WATTS

• LIGHTING LOAD ADDED:

38 FIXTURES AT 32 WATTS/FIXTURE
(38 F)(32 W/F) = 1216 WATTS

• NET LIGHTING LOAD:

1248 WATTS REMOVED
1216 WATTS ADDED
1216 W - 1248 W = -32 WATTS
NET LIGHTING LOAD REDUCTION



LIGHTING PLAN - SCALE: 1/8" = 1'-0"

2