

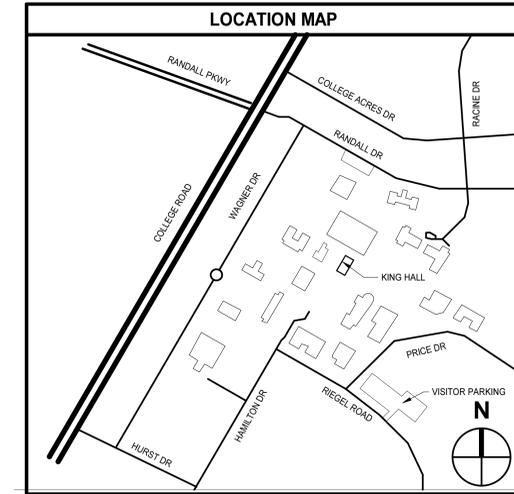
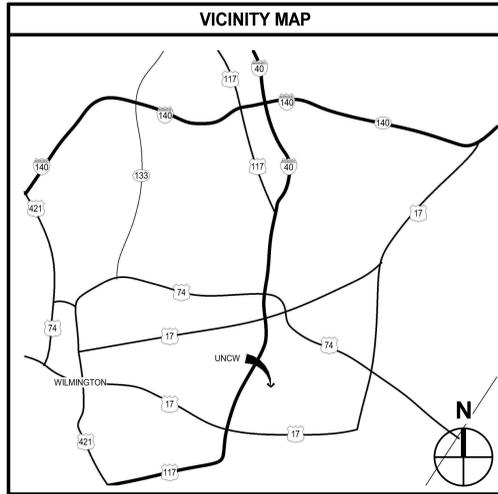
ALDERMAN AND KING HALL RENOVATIONS - KING HALL

SCO#22-24639-01A
Wilmington, NC

University of North Carolina Wilmington

MOSELEYARCHITECTS

911 N. WEST STREET, SUITE 205 RALEIGH, NORTH CAROLINA 27603
PHONE (919) 840-0091
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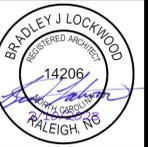
<u>Palacio Collaborative</u>	<u>Cost Management</u>
4819 Emperor Boulevard	Durham, NC 27703
<u>Moseley Architects</u>	<u>Architect, Mechanical, Electrical, Plumbing, & Structural</u>
911 N. West Street, Suite 205	Raleigh, NC 27603

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AN ASBESTOS INSPECTION WAS PERFORMED AND ASBESTOS CONTAINING MATERIALS WERE FOUND GENERALLY IN THE AREAS INDICATED. THE ASBESTOS SURVEY INSPECTION REPORT IS AVAILABLE TO THE CONTRACTOR FOR HIS INFORMATION. THE ASBESTOS CONTAINING MATERIALS SHALL NOT BE DISTURBED IN THE WORK AREA EXCEPT WHERE INDICATED AND REQUIRED TO COMPLETE THE WORK DEFINED IN THESE DOCUMENTS. ASBESTOS CONTAINING MATERIALS SHALL BE REMOVED BY THE CMR UNDER A SEPARATE CONTRACT WITH OWNER USING APPROVED METHODS AS REQUIRED.

A LEAD BASED PAINT INSPECTION WAS PERFORMED AND LEAD BASED PAINT WAS FOUND IN THE AREAS INDICATED. LEAD BASED PAINT SHALL NOT BE DISTURBED IN THE WORK EXCEPT WHERE SPECIALLY INDICATED AND REQUIRED FOR CONNECTION TO UTILITIES. WHERE SUCH CONNECTIONS ARE REQUIRED, CONTRACTOR SHALL HAVE THE OBSTRUCTIVE AND ADJACENT LEAD BASED PAINT REMOVED BY A LICENSED LEAD BASED PAINT ABATEMENT CONTRACTOR USING APPROVED PROCEDURES AS REQUIRED BY NIOSH. THE LEAD BASED PAINT THAT REMAINS AND NEW NON LEAD BASED PAINT AREAS SHALL BE LABELED ACCORDINGLY.

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ALDERMAN AND KING HALL RENOVATIONS - KING HALL
University of North Carolina Wilmington
SCO#22-24639-01A
601 Hamilton Drive, Wilmington, NC 28403

PROJECT NO:	620589
DATE:	FEBRUARY 10, 2023
REVISIONS	
DATE	DESCRIPTION

COVER

THE CONTRACT DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.

**2018 APPENDIX B
BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)**
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: Alderman and King Hall Renovations - King Hall
Address: 601 Hamilton Drive Wilmington NC Zip Code 28403
Owner/Authorized Agent: David Holzinger Phone # (910) 962-7897 E-Mail: holsingerd@unow.edu
Owned By: City/County Private State
Code Enforcement Jurisdiction: City County Private State

CONTACT:

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	Moseley Architects	Brad Lockwood	14206	(919) 840-0091	blockwood@moseleyarchitects.com
Civil	N/A				
Electrical	Moseley Architects	Brian Wells	040202	(804) 794-7555	bwells@moseleyarchitects.com
Fire Alarm	N/A?				
Plumbing	Moseley Architects	Seih Lehman	050937	(919) 840-0091	alehman@moseleyarchitects.com
Mechanical	Moseley Architects	Seih Lehman	050937	(919) 840-0091	alehman@moseleyarchitects.com
Sprinkler Standpipe	N/A				
Structural	Stephen Cooke		035434	(704) 540-3755	scooke@moseleyarchitects.com
Retaining Walls >5' High	N/A				
Other	N/A				

**Others should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.*

2018 NC CODE FOR: New Construction Addition Renovation
 1st Time Interior Completion
 Shell/Core
 Phased Construction - Shell/Core
 Renovation

2018 NC EXISTING BUILDING CODE: Prescriptive Repair Chapter 14
Alteration: Level I Level II Level III
 Historic Property Change of Use

CONSTRUCTED: (date) 1968 **ORIGINAL OCCUPANCY(S)** (Ch. 3): B
RENOVATED: (date) 1993 **CURRENT OCCUPANCY(S)** (Ch. 3): B

RISK CATEGORY (table 1604.5) Current: I II III IV
Proposed: I II III IV

BASIC BUILDING DATA
Construction Type: I-A II-A III-A IV V-A
(check all that apply) I-B II-B III-B
Sprinklers: No Partial Yes NFPA 13 NFPA 13R NFPA 13D
Standpipes: No Yes Class I II III Wet Dry
Fire District: No Yes (Primary) **Flood Hazard Area:** No Yes
Special Inspections Required: No Yes

2018 NC Administrative Code and Policies Appendix B for Building

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	RENO/ALTER (SQ FT)	SUB-TOTAL
6 th Floor				
5 th Floor				
4 th Floor				
3 rd Floor				
2 nd Floor	11,150 sf	0 sf	5,240 sf	
Mezzanine				
1 st Floor	11,150 sf	0 sf	1,367 sf	
Basement				
TOTAL	22,300 sf		6,607 sf	

ALLOWABLE AREA
Primary Occupancy Classification: SELECT ONE
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 Condition I-2 I-3 Condition I-4
 I-1 I-2 I-3 I-4
Mercantile R-1 R-2 R-3 R-4
Residential S-1 Moderate S-2 Low High-piled
Storage Parking Garage Open Enclosed Repair Garage
Utility and Miscellaneous

Accessory Occupancy Classification(s): N/A
Incidental Uses (Table 509): N/A
Special Uses (Chapter 4 - List Code Sections): N/A
Special Provisions (Chapter 5 - List Code Sections): N/A

Mixed Occupancy: No Yes Separation: ___ Hr. Exception: ___
 Non-Separated Use (508.3)
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 (508.4)
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.

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

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STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 ¹ AREA	(C) AREA FOR FRONTAGE INCREASE ^{2,3}	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ^{2,3}
			N/A		

1 Frontage area increases from Section 506.3 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = ____ (F)
b. Total Building Perimeter = ____ (P)
c. Ratio (F/P) = ____ (F/P)
d. W = Minimum width of public way
e. Percent of frontage increase $1 = 100 \times \frac{F}{P} - 100 = \text{____} (\%)$
2 Unlimited area applicable under conditions of Section 507.
3 Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2)
4 The maximum area of open parking garages must comply with Table 406.5.4
5 Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT (TABLE 503)	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)	N/A	
Building Height in Stories (Table 504.4)	N/A	

1 Provide code reference if the "Show on Plans" quantity is not based on Table 504.3 or 504.4.
2 The maximum height of air traffic control towers must comply with Table 412.3.1
3 The maximum height of open parking garages must comply with Table 406.5.4

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	REQ'D	RATING PROVIDED (OR REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses		0					
Bearing Walls							
Exterior		N/A					
North		N/A					
East		N/A					
West		N/A					
South		N/A					
Interior		N/A					
Nonbearing Walls and Partitions							
Exterior walls							
North	>30'	0	0				
East	>30'	0	0				
West	>30'	0	0				
South	>30'	0	0				
Interior walls and partitions		0	0				
Floor Construction including supporting beams and joists		0	0				
Floor Ceiling Assembly		0	0				
Column Supporting Floors		0	0				
Roof Construction, including supporting beams and joists		0	0				
Roof Ceiling Assembly		0	0				
Column Supporting Roof		0	0				
Shaft Enclosures - Exit		1	1 EXISTING				
Shaft Enclosures - Other		1	2 EXISTING				
Corridor Separation		N/A					
Occupancy/Fire Barrier Separation		N/A					
Party/Fire Wall Separation		N/A					
Smoke Barrier Separation		N/A					
Smoke Partition		N/A					
Tenant Dwelling Unit/ Sleeping Unit Separation		N/A					
Incidental Use Separation		N/A					

* Indicate section number permitting reduction

FIRE SEPARATION DISTANCE (FEET FROM PROPERTY LINES)	DEGREES OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
>30'	UNSPRINKLERED	NO LIMIT	NO LIMIT

2018 NC Administrative Code and Policies Appendix B for Building

LIFE SAFETY SYSTEM REQUIREMENTS
Emergency Lighting: No Yes
Exit Signs: No Yes
Fire Alarm: No Yes
Smoke Detection Systems: No Yes Partial
Carbon Monoxide Detection: No Yes

LIFE SAFETY PLAN REQUIREMENTS
Life Safety Plan Sheet #: LS2.1 AND LS2.2
 Fire and/or smoke rated wall locations (Chapter 7)
 Assumed and real property line locations (if not on the site plan)
 Exterior wall opening area with respect to distance to assumed property lines (705.8)
 Occupancy types for each area as it relates to occupant load calculation (Table 1004.1.2)
 Occupant loads for each area
 Exit access travel distances (1017)
 Common path of travel distances (1006.2.1 & 2006.3.2(1))
 Dead end lengths (1020.4)
 Clear exit widths for each exit door
 Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
 Actual occupant load for each exit door
 A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation and supporting construction for a fire barrier/fire partition/smoke barrier.
 Location of doors with panic hardware (1010.1.10)
 Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
 Location of doors with electromagnetic egress locks (1010.1.9.9)
 Location of doors equipped with hold-open devices
 Location of emergency escape windows (1030)
 The square footage of each fire area (202)
 The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
 Note any code exceptions or table notes that may have been utilized regarding the items above

Section/Table/Note	Title

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
	N/A						

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LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED		TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' CLEARANCE	VAN SPACES WITH 132" ACCESSIBLE	
			N/A		
TOTAL					

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

USE	SPACE	EXIST'G	NEW	REQ'D	WATERCLOSETS		URINALS		LAVATORIES		SHOWERS	DRINKING FOUNTAINS	
					MALE	FEMALE	UNSEX	MALE	FEMALE	UNSEX		REGULAR	ACCESSIBLE

PER SECTION 810.1 WE ARE NOT INCREASING THE OCCUPANT LOAD BY MORE THAN 20% THEREFORE WE DO NOT HAVE TO CALCULATE FIXTURES. EXISTING OCCUPANT LOAD 529. ANTICIPATED OCCUPANT LOAD AFTER RENOVATION 490.

Special approval: (Local Jurisdiction, Department of Insurance, SCO, DPI, DHHS, ICC, etc., describe below)

ENERGY SUMMARY
The following data shall be considered minimum and any special attribute required to meet the North Carolina Energy Conservation Code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code: No Yes (The remainder of this section is not applicable)
Exempt Building: No Yes (Provide Code or Statutory reference):
Climate Zone: 3A 4A 5A
Method of Compliance: Energy Code: Performance Prescriptive
ASHRAE 90.1: Performance Prescriptive (If "Other" specify source here)

THERMAL ENVELOPE (Prescriptive method only)

Roof/ceiling Assembly (each assembly)
Description of assembly: Existing to Remain
U-Value of total assembly: _____
R-Value of insulation: _____
Skylights in each assembly: _____
U-Value of skylight: _____
Total square footage of skylights in each assembly: _____

Exterior Walls (each assembly)
Description of assembly: Existing to Remain
U-Value of total assembly: _____
R-Value of insulation: _____
U-Value of assembly: _____
Openings (windows or doors with glazing)
Solar heat gain coefficient: _____
Projection factor: _____
Door R-Values: _____

Walls below grade (each assembly)
Description of assembly: N/A
U-Value of total assembly: _____
R-Value of insulation: _____

Floors over unconditioned space (each assembly)
Description of assembly: Existing to Remain
U-Value of total assembly: _____
R-Value of insulation: _____

Floors slab on grade
Description of assembly: Existing to Remain
U-Value of total assembly: _____
R-Value of insulation: _____
Horizontal/Vertical requirement: _____
Slab Heated: _____

2018 NC Administrative Code and Policies Appendix B for Building

**2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
STRUCTURAL DESIGN**
(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:
Importance Factors: Snow (I_s) N/A
Seismic (I_s) _____
Live Loads: Roof N/A psf
Mezzanine psf
Floor psf
Ground Snow Load: N/A psf
Wind Load: Ultimate Wind Speed Exposure Category B 155 mph (ASCE-7)

SEISMIC DESIGN CATEGORY: A B C D
Provide the following Seismic Design Parameters:
Risk Category (Table 1604.5) I II III IV
Spectral Response Acceleration S_s _____ %g
Site Classification (ASCE 7) C D E F
Data Source: Prescriptive Historical Data
Basic structural system: Dual w/ Special Moment Frame
 Building Frame Dual w/ Intermediate R/C or Special Steel
 Moment Frame Inverted Pendulum
 Simplified Equivalent Lateral Force Dynamic
Analysis Procedure: Yes No
Architectural, Mechanical, Components anchored? Yes No

LATERAL DESIGN CONTROL: Earthquake Wind

SOIL BEARING CAPACITIES:
Field Test (provide copy of test report): N/A psf
Presumptive Bearing capacity: _____ psf
Pile size, type, and capacity: _____

2018 NC Administrative Code and Policies Appendix B for Building

**2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
MECHANICAL DESIGN**
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

Thermal Zone
winter dry bulb: 24.2°F
summer dry bulb: 93.4°F

Interior design conditions
winter dry bulb: 70°F
summer dry bulb: 75°F
relative humidity: 50% RH

Building heating load: 511.2 MBH

Building cooling load: 83.1 Tons

Mechanical Spacing Conditioning System
Unitary description of unit: VAV AHU's with chilled and hot water from campus energy plant
heating efficiency: _____
cooling efficiency: _____
size category of unit: _____
Boiler size category, if oversized, state reason: From Existing to Remain Central Plant
Chiller size category, if oversized, state reason: From Existing to Remain Central Plant

List equipment efficiencies: _____

2018 NC Administrative Code and Policies Appendix B for Building

**2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
ELECTRICAL DESIGN**
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

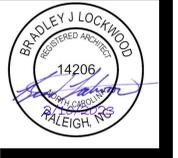
ELECTRICAL SYSTEM AND EQUIPMENT
Method of Compliance: Energy Code: Prescriptive Performance
ASHRAE 90.1: Prescriptive Performance

Lighting schedule (each fixture type)
lamp type required in fixture
number of lamps in fixture
ballast type used in the fixture
number of ballasts in fixture
total wattage per fixture
total interior wattage specified vs. allowed (whole building or space by space) 9913W vs 19401W
total exterior wattage specified vs. allowed N/A

Additional Efficiency Package Options (When using the 2018 NCECC; not required for ASHRAE 90.1)
 C406.2 More Efficient Mechanical Equipment
 C406.3 Reduced Lighting Power Density
 C406.4 Enhanced Digital Lighting Controls
 C406.5 On-Site Renewable Energy
 C406.6 Dedicated Outdoor Air System
 C406.7 Reduced Energy Use in Service Water Heating

2018 NC Administrative Code and Policies Appendix B for Building

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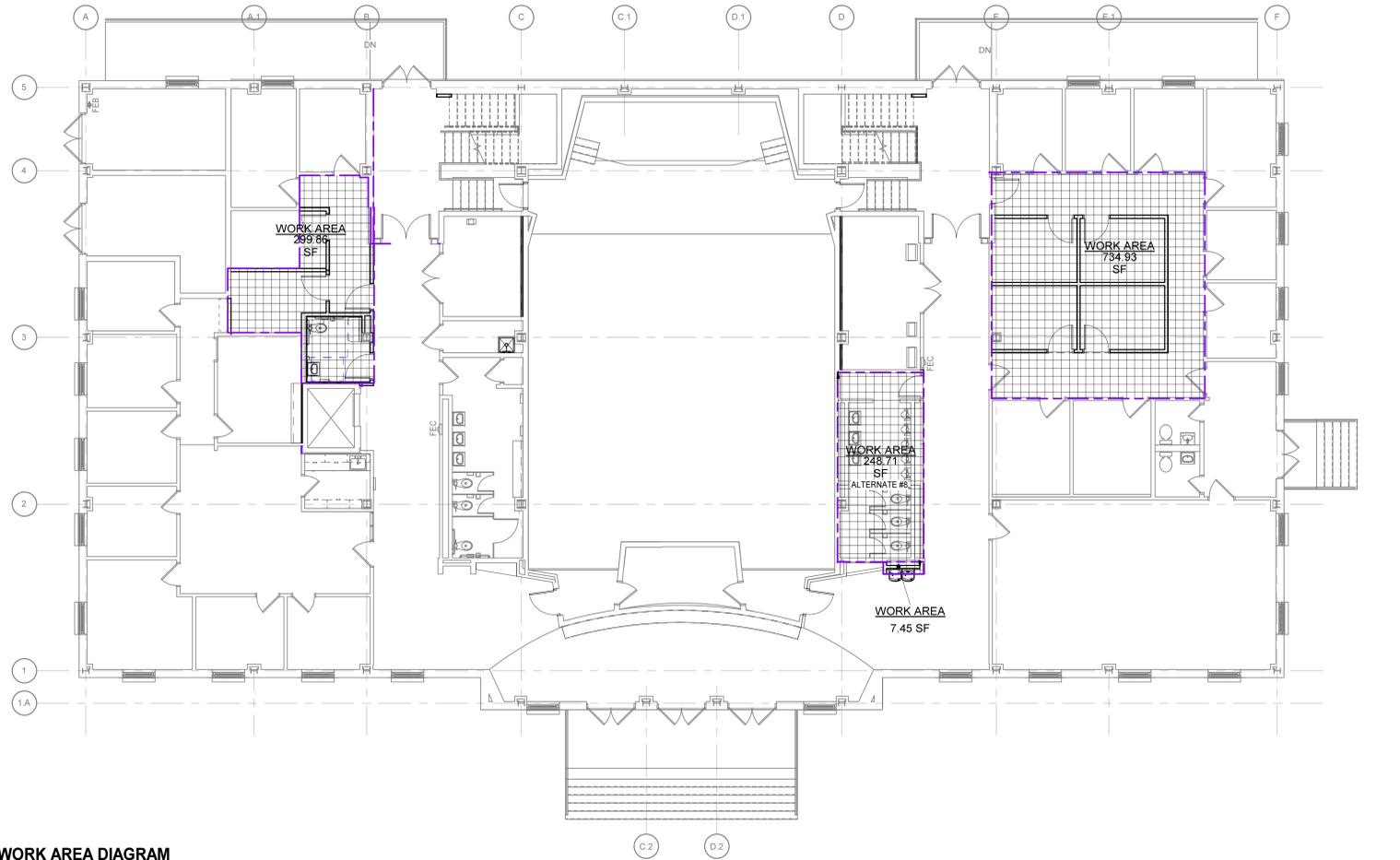
PROJECT NO: 620589
DATE: FEBRUARY 10, 2023
REVISIONS
DATE DESCRIPTION

APPENDIX B - CODE SUMMARY

LS1.0



PROJECT
N
POLAR
SECOND FLOOR WORK AREA DIAGRAM
1/8" = 1'-0"



PROJECT
N
POLAR
FIRST FLOOR WORK AREA DIAGRAM
1/8" = 1'-0"

AREAS	
WORK AREA	WORK AREA
WORK AREA	
WORK AREA FLOOR 1	1,042.24 SF
WORK AREA FLOOR 2	6,310.62 SF
TOTAL WORK AREA	7,352.86 SF
WORK AREA ALTERNATES	260.71 SF
TOTAL WORK AREA INCLUDING ALTERNATES	7,613.57 SF
BUILDING AREA	
TOTAL BUILDING AREA	22,300 SF
50% OF 22,300 = 11,150 SF BASE BID AND ALTERNATE WORK AREAS ARE < 50%	



PROJECT NO.	DATE
620589	FEBRUARY 10, 2023
REVISIONS	DESCRIPTION



OCCUPANCY SCHEDULE FIRST FLOOR

SPACE NUMBER	SPACE NAME	USE CLASSIFICATION	USED TO DETERMINE OCCUPANCY FACTOR ONLY	FLOOR AREA PER OCCUPANT	AREA			OCCUPANCY LOAD		
					SF	GROSS	NET	TABULAR	ACTUAL	DESIGN
100	LOBBY	A3	ASSEMBLY, UNCONCENTRATED	15 SF	106		8			
101	LECTURE	A3	ASSEMBLY, FIXED SEATING	0 SF	1924		168	168	168	
101.1	STAGE	A3	ASSEMBLY, UNCONCENTRATED	15 SF	167		12		12	
101B	PROJECTION	B	BUSINESS AREA	100 SF	101					
102	OFFICE	B	BUSINESS AREA	100 SF	359		4		4	
102A	OFFICE	B	BUSINESS AREA	100 SF	91		1		1	
102B	OFFICE	B	BUSINESS AREA	100 SF	96		1		1	
102C	OFFICE	B	BUSINESS AREA	100 SF	166		2		2	
102D	OFFICE	B	BUSINESS AREA	100 SF	95		1		1	
102E	OFFICE	B	BUSINESS AREA	100 SF	98		1		1	
102F	WORKROOM	B	BUSINESS AREA	100 SF	137		2		2	
102G	OFFICE	B	BUSINESS AREA	100 SF	99		1		1	
102I	OFFICE	B	BUSINESS AREA	100 SF	83		1		1	
102K	KITCHEN	B	BUSINESS, CONCENTRATED	50 SF	53		2		2	
103A	OFFICE	B	BUSINESS AREA	100 SF	84		1		1	
103B	OFFICE	B	BUSINESS AREA	100 SF	117		2		2	
103C	OFFICE	B	BUSINESS AREA	100 SF	83		1		1	
103D	OFFICE	B	BUSINESS AREA	100 SF	81		1		1	
104	CLASSROOM	B	EDUCATIONAL, CLASSROOM	20 SF	727		37		37	
104A	WORK AREA	B	BUSINESS AREA	100 SF	146		2		2	
104B	URR	B	BUSINESS AREA	100 SF	31		1		1	
104C	URR	B	BUSINESS AREA	100 SF	30		1		1	
106A	OFFICE	B	BUSINESS AREA	100 SF	81		1		1	
106B	OFFICE	B	BUSINESS AREA	100 SF	111		2		2	
106C	OFFICE	B	BUSINESS AREA	100 SF	82		1		1	
106D	OFFICE	B	BUSINESS AREA	100 SF	111		2		2	
106E	OFFICE	B	BUSINESS AREA	100 SF	78		1		1	
106F	OFFICE	B	BUSINESS AREA	100 SF	73		1		1	
106G	OFFICE	B	BUSINESS AREA	100 SF	123		2		2	
106H	OFFICE	B	BUSINESS AREA	100 SF	87		1		1	
106I	OFFICE	B	BUSINESS AREA	100 SF	82		1		1	
106J	OFFICE	B	BUSINESS AREA	100 SF	80		1		1	
106K	OFFICE	B	BUSINESS AREA	100 SF	82		1		1	
106L	OFFICE	B	BUSINESS AREA	100 SF	80		1		1	
C100	CORR	B	BUSINESS AREA	100 SF	589		6		6	
C102	CORR	B	BUSINESS AREA	100 SF	83		1		1	
C103	CORR	B	BUSINESS AREA	100 SF	98		1		1	
C103	CORR	B	BUSINESS AREA	100 SF	572		6		6	
C106	CORR	B	BUSINESS AREA	100 SF	347		4		4	
H100	HSPKNG	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	38		1		1	
M100	MECH/ELEC	B	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	170		1		1	
M101	MECH	B	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	195		1		1	
M102	MECH	B	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	119		1		1	
M103	MECH	B	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	181		1		1	
R100	WRR	B	BUSINESS AREA	100 SF	208		3		3	
R101	MRR	B	BUSINESS AREA	100 SF	175		2		2	
R102	UNISEX RR	B	BUSINESS AREA	100 SF	60		1		1	
S100	STAIR	B	BUSINESS AREA	100 SF	325		4		4	
S101	STAIR	B	BUSINESS AREA	100 SF	328		4		4	

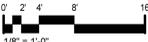
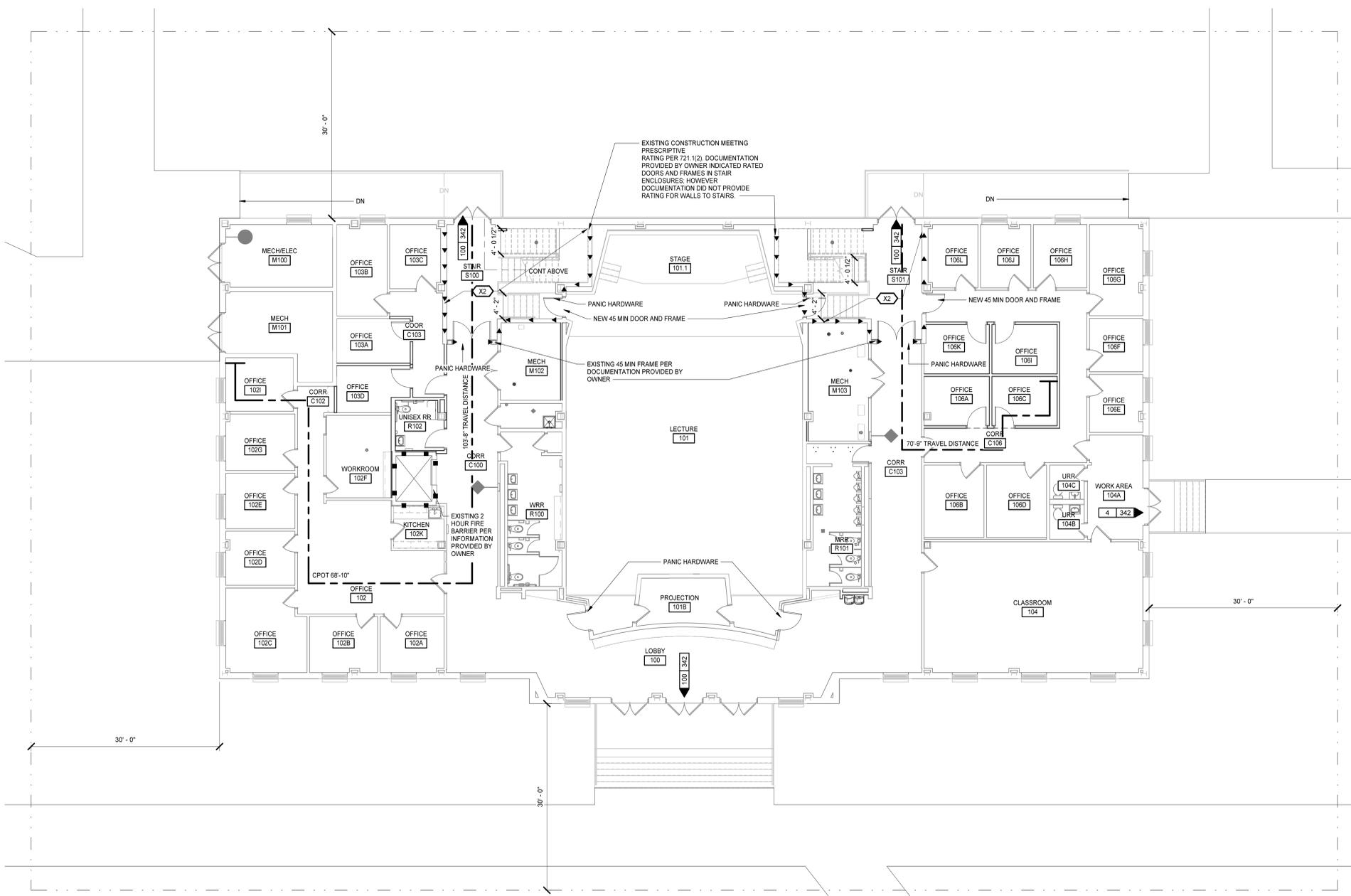
304

LIFE SAFETY SYMBOL LEGEND

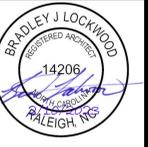
APPLIES TO LS SERIES OF DRAWINGS ONLY

DESIGNATOR MATRIX		NOTES	SYMBOLS	
BARRIER	NOTES		ROOM NUMBER	
1 HR FIRE	EXISTING CONSTRUCTION MEETING PRESCRIPTIVE REQUIREMENTS OF TABLE 721.1(2)	<p>1. WALL DESIGNATIONS ON THE LS SERIES OF DRAWINGS ARE FOR GRAPHICAL PURPOSES ONLY AND MAY NOT REPRESENT THE ACTUAL WALL/PARTITION CONSTRUCTION.</p> <p>2. REFER TO THE CONTRACT DOCUMENTS, INCLUDING THE LIFE SAFETY SYMBOLS LEGEND AND A0, A1 AND, A2 SERIES OF DRAWINGS, FOR ACTUAL WALL/PARTITION TYPES AND CONSTRUCTION REQUIREMENTS.</p> <p>3. RATING OF BEARING OR NON-BEARING WALLS ARE PER TABLE 601 AND SECTION 602.1 AND DO NOT REQUIRE PROTECTED OPENINGS.</p>	1205	ROOM NUMBER
2 HR FIRE	PER DOCUMENTATION PROVIDED BY OWNER		798 1280	DIRECTION OF EGRESS EGRESS LOAD CAPACITY NUMBER OF OCCUPANTS
			798 1280	DIRECTION OF EGRESS NUMBER OF OCCUPANTS EGRESS LOAD CAPACITY
			XXX'-X"	MAXIMUM TRAVEL DISTANCE
			XXX'-X"	COMMON PATH OF TRAVEL CPOT
			- - -	ASSUMED PROPERTY LINE
			◆	EXISTING TO REMAIN FIRE EXTINGUISHER CABINET
			●	EXISTING TO REMAIN FIRE EXTINGUISHER BRACKET

FIRE RATED ASSEMBLIES				
REPRESENTED BY (Xn)				
THE ASSEMBLIES REFERENCED ARE BASIS OF DESIGN. EQUIVALENT COMPATIBLE TESTED ASSEMBLIES WILL BE ACCEPTABLE IF APPROVED BY THE LAHJ				
MARK	FIRE RATING	APPLIES TO	UL DESIGN OR CODE REFERENCE	REMARKS
X1	1 HOUR FIRE BARRIER	GYP SUM CEILING MEMBRANE	UL BU XV 1504	INDICATES AREA WHERE OCCURS
X2	1 HOUR FIRE BARRIER	INTERIOR CMU WALLS EXISTING AND PATCH	NORTH CAROLINA CONSTRUCTION CODE TABLE 721.1(2) ITEM NUMBER 3-1.2	--



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 PHONE (919) 840-0951
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ALDERMAN AND KING HALL RENOVATIONS - KING HALL
 University of North Carolina Wilmington
 SCOR#22-24639-01A
 601 Hamilton Drive, Wilmington, NC 28403

PROJECT NO:	620589
DATE:	FEBRUARY 10, 2023
REVISIONS	
DATE	DESCRIPTION

LIFE SAFETY PLAN - FIRST FLOOR

LS2.1

3/24/2023 8:33:33 AM

X1

Fire-resistance Ratings - ANSI/UL 263

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variations

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variations

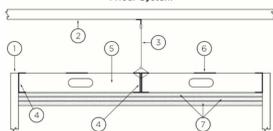
Design No. I504

July 19, 2022

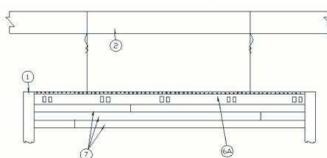
Ceiling Membrane Rating - 1 Hr.
Load Restriction - Limited to the Dead Weight of the Assembly

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

1 Hour System



2/23, 9:54 AM BXUV.I504 - Fire-resistance Ratings - ANSI/UL 263 | UL Product iQ



- 1. **Supporting Structure #1** — Fire-resistance rated. Suitable point of attachment of C-Channels (Item 4).
- 2. **Supporting Structure #2** — If necessary - Suitable point of attachment of hanger wire (Item 3).
- 3. **Hanger Wire** — If necessary - Min. 8 gauge steel wire, hung from holes punched in C-Channel (Item 4). Hanger wire spaced nominally 24 in. OC.
- 4. **C-Channels** — Used to support steel studs at both ends. Min. 3-5/8 in. deep with min. 1-1/4 in. legs and formed from min. No. 20 MSG galv. steel. Perimeter channels attached to a fire-resistance rated supporting structure (Item 1) with fasteners spaced not greater than 24 in. O.C. at both the top and bottom of the vertical leg. When used with Items 2 and 3, C-Channel secured back to back with 1/2 in. Type 5 screws spaced 24 in. OC along centerline of C-Channels. Where C-Channels form a butt joint, screws placed at both top and bottom of both sides of butt joint.
- 5. **Steel Studs** — Min. 3-5/8 in. wide with min. 1-5/8 in. legs containing folded back flanges and formed from min. No. 20 MSG galv. Steel. Studs to be cut 3/8 in. to 5/8 in. less than the clear span between the vertical legs of the perimeter channels. Studs spaced a max. 16 in. OC. At each end of the stud, the top and bottom legs shall be secured to the perimeter channel with one 3/8 in. long pan-head steel screw. Studs are used at each end of the horizontal barrier to terminate the assembly at the adjoining wall. These end studs shall be secured to the adjoining wall in the same manner as the perimeter channels (Item 4). Maximum unsupported length of studs not to exceed 8 ft. 1 in.
- 6. **Steel Strap** — Min 4 in. wide formed from min. No. 20 MSG galv. Steel. Secured perpendicular to the studs at the centerline of the span using one 3/8 in. long pan-head steel screw. Strips to overlap one full stud bay at splice locations. As an alternate to the steel strap, C-Channels (Item 4) may be substituted and installed in the same manner as the steel straps. If a continuous piece is not used, abut channels on each side of the centerline of the span and overlap one full stud bay.
- 6A. **Framing Members*** — As an alternate to items 3, 4, 5, and 6 - Main runners, cross tees, cross channels and wall angle as listed below:
 - a. **Main Runners** — Nom 10 or 12 ft long, 15/16 in. or 1-1/2 in. wide face, spaced 4 ft OC. Main runners suspended by min 12 SWG galv steel hanger wires spaced 24 in. OC, twist tied to supporting structure.
 - b. **Cross Tees** — Nom 4 ft long, 1-1/2 in. wide face, installed perpendicular to the main runners, spaced 16 in. OC. The cross tees or cross channels may be riveted or screw attached to the wall angle or channel to facilitate the ceiling installation.
 - c. **Cross Channels** — Nom 4 ft long, installed perpendicular to main runners, spaced 16 in. OC.
 - d. **Wall Angle or Channel** — Painted or galv steel angle with 1 in. legs or channel with 1 in. legs, 1-9/16 in. deep attached to walls at perimeter of ceiling with fasteners 16 in. OC. To support steel framing member ends and for screw-attachment of the gypsum panel.

ARMSTRONG WORLD INDUSTRIES INC — Type DFR-8000. <https://iq.ulprospector.com/en/profile?m=14124> 23

2/23, 9:54 AM BXUV.I504 - Fire-resistance Ratings - ANSI/UL 263 | UL Product iQ

7. **Gypsum Board*** — Three layers of nom. 5/8 in. thick gypsum board installed with long dimension perpendicular to the steel studs or Framing Members*. Base secured to studs and perimeter channels with 1 in. long Type 5 steel screws spaced max. 16 in. OC. Middle layer secured to the studs or Framing Members* and perimeter supports with 1-5/8 in. long Type 5 steel screws spaced max. 16 in. OC. Middle layer edge and end joints staggered a min. 16 in. from base layer joints. Face layer secured to the studs or Framing Members* and perimeter supports with 2-1/4 in. long Type 5 steel screws spaced max. 12 in. OC. Face layer edge and end joints staggered a min. 16 in. from middle layer joints.

NATIONAL GYPSUM CO — Type FSW

8. **Joint Tape and Compound** — Not Shown — (Optional, Not Required On Joints or Screw Heads) — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads; paper tape, nom. 2 in. wide, embedded in first layer of compound over all joints.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively. Last Updated on 2022-07-19

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ALDERMAN AND KING HALL RENOVATIONS - KING HALL
University of North Carolina Wilmington
SCOR22-24639-01A
601 Hamilton Drive, Wilmington, NC 28403

PROJECT NO:	620589
DATE:	FEBRUARY 10, 2023
REVISIONS	
DATE	DESCRIPTION

FIRE RESISTANCE ASSEMBLIES

LS3.1

3/24/2023 8:33:37 AM

XHEZ.W-J-1020 - Through-penetration Firestop Systems

Design/System/Construction/Assembly Usage Disclaimer

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- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems XHEZ7 - Through-penetration Firestop Systems Certified for Canada

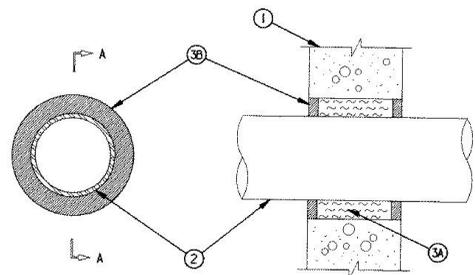
See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. W-J-1020

January 22, 2015

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Rating — 0 and 1/4 Hr (See Item 3B)	FT Rating — 0 and 1/4 Hr (See Item 3B)
L Rating At Ambient — Less Than 1 CFM/sq ft	FH Rating — 2 Hr
L Rating At 400 F — 4 CFM/sq ft	FTH Rating — 0 and 1/4 Hr (See Item 3B)
	L Rating At Ambient — Less Than 1 CFM/sq ft
	L Rating At 400 F — 4 CFM/sq ft



SECTION A-A

- Wall Assembly** — Min 5 in. (127 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 8 in. (203 mm). See **Concrete Blocks (CAZT)** category in the Fire Resistance Directory for names of manufacturers.
- Through Penetrants** — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The annular space between pipe, conduit or tubing and periphery of opening shall be min 3/4 in. (19 mm) to max 3-1/2 in. (89 mm). The following types and sizes of metallic pipes, conduits or tubing may be used:
 - Conduit** — Nom 4 in. (102 mm) diam (or smaller) electrical metallic tubing or steel conduit.
 - Copper Tubing** — Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tubing.
 - Copper Pipe** — Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.
- Firestop System** — The hourly Ratings for the firestop systems are dependent upon the type and size of pipe, annular space, fill material thickness and fill material type as described in the table below. When the annular space in the table shows a range of distances, the penetrating item may be installed either concentrically or eccentrically within the firestop system. The firestop systems shall consist of the following:
 - Packing Material** — Mineral wool batt insulation firmly packed into opening as a permanent form. As an option to the above, backer rod and/or foamed plastic backer material may be used. Packing material to be recessed from both surfaces of wall to accommodate the required thickness of fill material.
 - Fill, Void or Cavity Material — Sealant*** — Applied within the annulus, flush with both surfaces of wall as shown in the table below.

Pipe Type	Min Fill Mat Thkns In. (mm)	F, FH Rating Hr	T Rating Hr
ZA	1/4 (6)	2	1/4

https://iq.ulprospector.com/en/profile/?e=175481

2/3

2B	1/2 (13)	2	0
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HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2015-01-22

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3/3

XHEZ.W-J-5013 - Through-penetration Firestop Systems

Design/System/Construction/Assembly Usage Disclaimer

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- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
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XHEZ - Through-penetration Firestop Systems

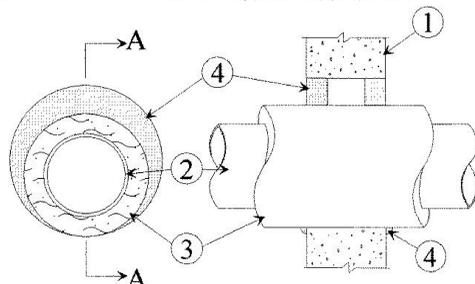
See General Information for Through-penetration Firestop Systems

System No. W-J-5013

September 08, 2004

F Ratings — 1 and 2 Hr (See Item 4)

T Ratings — 1 and 1-1/2 Hr (See Item 4)



SECTION A-A

- Wall Assembly** — Min 4-1/2 in. thick lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 8-1/2 in. See **Concrete Blocks (CAZT)** category in the Fire Resistance Directory for names of manufacturers.
- Through Penetrants** — One metallic pipe or tubing installed either concentrically or eccentrically within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
 - Steel Pipe** — Nom 4 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
 - Copper Tubing** — Nom 4 in. diam (or smaller) Type L (or heavier) copper tubing.
 - Copper Pipe** — Nom 4 in. diam (or smaller) Regular (or heavier) copper pipe.
- Pipe Covering*** — Nom 1-1/2 in. thick hollow cylindrical heavy density (min 3.5 pcf) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied SSL tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. The annular space between the insulated pipe and the edge of the through opening shall be min zero in. (continuous point contact) to max 1-1/4 in. See **Pipe and Equipment Covering — Materials (BRGU)** category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
- Fill, Void or Cavity Materials* — Caulk or Sealant** — Min thickness of 5/8 in. and 1-1/4 in. of caulk or putty for 1 and 2 hr rated wall assemblies, respectively, applied within annulus between pipe covering and periphery of the opening. Flush with both surfaces of wall assembly. A min 1/2 in. diam bead of caulk shall be applied to the pipe covering/wall interface at the point contact location on both sides of wall. **The hourly F and T Ratings of the firestop system are 1 hr when installed in 1 hr fire rated wall assemblies. The hourly F Rating of the firestop system is 2 hr when installed in 2 hr fire rated wall assemblies. T Rating is 1 hr when copper tube is used and 1-1/2 hr when steel pipe is used.**
3M COMPANY — CP 2505B+ or FB-3000 WT

- Packing Material** — (Optional) — Mineral wool or fiberglass insulation or polyethylene backer rod firmly packed into opening as a permanent form. Packing material to be recessed from both surfaces of wall as required to accommodate the required thickness of caulk fill material.

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Last Updated on 2004-09-08

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3/3

XHEZ.W-J-5187 - Through-penetration Firestop Systems

Design/System/Construction/Assembly Usage Disclaimer

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- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
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XHEZ - Through-penetration Firestop Systems

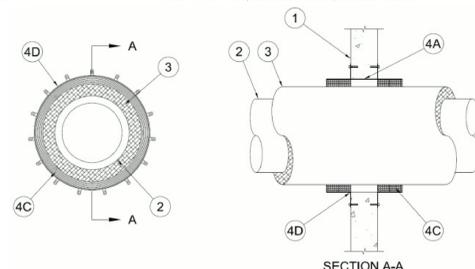
See General Information for Through-penetration Firestop Systems

System No. W-J-5187

June 28, 2017

F Rating — 2 Hr

T Rating — 2 Hr



SECTION A-A

- Wall Assembly** — Min 5 in. (127 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 19-1/2 in. (495 mm). See **Concrete Blocks (CAZT)** category in the Fire Resistance Directory for names of manufacturers.
- Through Penetrants** — One nonmetallic pipe to be installed within the opening. Pipe to be rigidly supported on both sides of the wall assembly. The following types and sizes of nonmetallic pipe may be used:
 - Polypropylene (PP-R) Pipe** — Nom 12 in. diam - 315 mm OD (or smaller) SDR 11 Aquathern Blue Pipe MF for use in closed (process or supply) piping systems.
 - Polypropylene (PP-R) Pipe** — Nom 12 in. diam - 315 mm OD (or smaller) SDR 11 Aquathern Green Pipe 5 for use in closed (process or supply) piping systems.
- Pipe Covering Materials* — Cellular Glass Insulation** — Nom 2 in. (51 mm) thick cellular glass units sized to the outside diam of the through-penetrant and supplied in nom 24 in. (610 mm) long half sections or nom 18 in. (457 mm) long segments. Pipe insulation installed on pipe in accordance with the manufacturer's instructions. Transverse joints located within 36 in. (914 mm) of wall surfaces secured using min 1/2 in. (13 mm) wide by 0.028 in. (0.7 mm) thick stainless steel hose clamps offset 1 in. (25 mm) from joint on each side of joint. A nom annular space of 1-9/16 in. (40 mm) is required within the firestop system.
- Firestop System** — The firestop system shall consist of the following:
 - Steel Sleeve** — Cylindrical sleeve fabricated from min 0.016 in. (0.4 mm) thick (30 gauge) galv sheet steel and having a 2 in. (51 mm) lap along the longitudinal seam. Length of steel sleeve to be 4 in. (102 mm) greater than the thickness of the wall. Sleeve installed by coiling the sheet steel to a diam smaller than the through opening, inserting the coil through the opening and releasing the coil to let it uncoil against the circular opening within the wall assembly. The ends of the sleeve shall extend 2 in. (51 mm) beyond each surface of the wall.
 - Fill, Void or Cavity Material — Sealant or Putty** — (Not Shown) Min 3/8 in. (10 mm) diam bead of fill material applied around circumference of steel sleeve at its egress from the concrete wall on each side of the wall. **SPECIFIED TECHNOLOGIES INC — SpecSeal Series SSS Sealant, SpecSeal LCI Sealant or SpecSeal Putty**
 - Fill, Void or Cavity Materials* — Wrap Strip** — Nom 3/16 in. (4.8 mm) thick intumescent material faced on both sides with a plastic film, supplied in 2 in. (51 mm) wide strips. Two stacks (4 in. (102 mm) stack height) of wrap strips are individually or continuously wrapped around the through penetrant. Each stack shall consist of seven layers of wrap strip.

- Wrap Strip** — When wrap strips are individually wrapped, ends of wrap strips shall be butted and held in place with tape. Butted ends in successive layers may be aligned or offset. The first stack of wrap strips shall be slid along the through penetrant into the sleeve such that the outside edges of the wrap strip layers are flush with the end of the sleeve. The second stack of wrap strips shall be installed such that the edges of the wrap strip layers abut the first stack. Two stacks of wrap strips are required on each side of the wall. **SPECIFIED TECHNOLOGIES INC — SpecSeal BU Wrap Strip**

- Steel Collar** — Collar fabricated from coils of precut 0.029 in. (0.7 mm) thick (No. 22 MSG) galv sheet steel available from wrap strip manufacturer. Collar shall be nom 4 in. (102 mm) deep with a min of six 1 in. (25 mm) wide by 2 in. (51 mm) long anchor tabs for securement to the wall. Retainer tabs, 3/4 in. (19 mm) wide tapering down to 3/8 in. (10 mm) wide and located opposite the anchor tabs, are folded 90 degrees toward through penetrant surface to maintain the annular space around wrap strips and through penetrant and to retain the wrap strips. Two steel collars wrapped around wrap strips and through penetrant with a min 1 in. (25 mm) wide overlap at the end of collar along its perimeter joint with the adjacent steel collar. Steel collars tightened around wrap strips and through penetrant using min 1/2 in. (13 mm) wide by 0.028 in. (0.7 mm) thick stainless steel hose clamps located 1 in. (25 mm) and 3 in. (76 mm) from wall surface. Collars to be secured to wall surfaces with 1/4 in. (6 mm) diam by min 1-1/4 in. (32 mm) long steel concrete screws in conjunction with min 1 in. (25 mm) diam steel fender washers through each of a min of twelve symmetrically-located anchor tabs. As an alternate to the steel concrete screws, steel collars secured to steel sleeve with twelve No. 8 by 3/8 in. (10 mm) long sheet metal screws, symmetrically located around the perimeter of the steel collar. Steel collars installed on both sides of the wall assembly.

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Last Updated on 2017-06-28

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MOSELEY ARCHITECTS

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ALDERMAN AND KING HALL RENOVATIONS - KING HALL
University of North Carolina Wilmington
SCOR#22-24639-01A
601 Hamilton Drive, Wilmington, NC 28403

PROJECT NO:	620589
DATE:	FEBRUARY 10, 2023
REVISIONS	
DATE	DESCRIPTION

FIRE RESISTANCE ASSEMBLIES - PENETRATIONS

LS4.1

3/24/2023 8:33:39 AM



XHEZ.W-L-2606 - Through-penetration Firestop Systems

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems XHEZ7 - Through-penetration Firestop Systems Certified for Canada

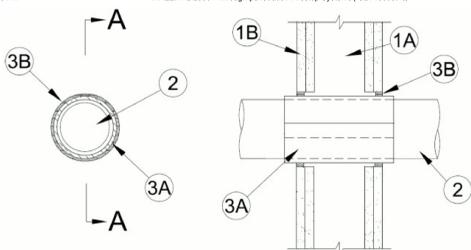
See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. W-L-2606

June 04, 2015

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Ratings — 1 and 2 Hr (See Item 1)	FT Ratings — 1 and 2 Hr (See Item 1)
	FH Ratings — 1 and 2 Hr (See Item 1)
	FTH Ratings — 1 and 2 Hr (See Item 1)



Section A-A

System tested with a pressure differential of 50 Pa between the exposed and the unexposed surfaces with the higher pressure on the exposed side.

1. **Wall Assembly** — The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs** — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.

B. **Gypsum Board** — Min 5/8 in. (16 mm) with square or tapered edges. Thickness, type, number of layers and fasteners as specified in the individual Wall and Partition Design. Diam of opening shall be max 1-11/16 in. (43 mm) larger than OD of through penetrant. Max diam of opening is 8 in. (203 mm).

The hourly F, FT, FH and FTH Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. **Through Penetrants** — One nonmetallic pipe to be installed concentrically within the firestop system. The annular space between the pipe and periphery of opening shall be max 7/8 in. (22 mm). Pipe to be rigidly supported on both sides of the wall assembly. The following types and sizes of nonmetallic pipes may be used:

A. **Polypropylene (PP-R) Pipe** — Nom 6 in. diam - 160 mm OD (or smaller) SDR 17.6 MF Aquatherm Blue Pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

3. **Firestop System** — The firestop system shall consist of the following:

A. **Firestop Device** — Galv steel sleeve lined with an intumescent material sized to fit the specific diam of the through penetrant. Device to be installed in accordance with the manufacturer's installation instructions along with the following: Device to be wrapped around outer circumference of through penetrant and installed through the annular space of the opening. The device may be temporarily secured by means of tape or tie wires around the outer circumference of through penetrant to allow for installation of the fill material (Item 3B). The device shall be centered within the wall and extend equally beyond each surface of the wall.

RECTORSEAL — FlameSafe® Intumescent Sleeve 68, Metacaulk Intumescent Sleeve 68 or Biostop Intumescent Sleeve 68

B. **Fill, Void or Cavity Material** — **Sealant** — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall.
RECTORSEAL — Metacaulk 1000, Metacaulk 150+, Biostop 500+, Biostop 150+, FlameSafe 1900

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2015-06-04

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ALDERMAN AND KING HALL RENOVATIONS - KING HALL

University of North Carolina Wilmington
SCOR#22-24639-01A
601 Hamilton Drive, Wilmington, NC 28403

PROJECT NO:	620589
DATE:	FEBRUARY 10, 2023
REVISIONS	
DATE	DESCRIPTION

FIRE RESISTANCE ASSEMBLIES - PENETRATIONS

LS4.2

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PROJECT NO:	620589
DATE:	FEBRUARY 10, 2023
REVISIONS:	
DATE:	
DESCRIPTION:	

TERMINATION GENERAL NOTES

A. AT FIRE, SMOKE, AND ACOUSTICALLY RATED WALLS: SEAL ALL NON-OBSERVED HEAD-OF-WALL CONDITIONS IN ACCORDANCE WITH JOINT SYSTEM MANUFACTURER'S RECOMMENDATIONS BASED ON CONDITION ENCOUNTERED (E.G. CMU-TO-DECK (PARALLEL OR PERPENDICULAR TO FLUTES), OR CFSF-TO-DECK (PARALLEL OR PERPENDICULAR TO FLUTES) TO MAINTAIN ASSEMBLY RATING CONSISTENT WITH WALL/PARTITION REQUIREMENTS. BRACE WALL AS INDICATED OR REQUIRED.

B. AT ALL OTHER WALLS INDICATED TO EXTEND TO UNDERSIDE OF FLOOR/ROOF DECK/CAP: SEAL ALL NON-OBSERVED HEAD-OF-WALL CONDITIONS IN ACCORDANCE WITH JOINT SYSTEM MANUFACTURER'S RECOMMENDATIONS BASED ON CONDITION ENCOUNTERED (E.G. CMU-TO-DECK (PARALLEL OR PERPENDICULAR TO FLUTES), OR CFSF-TO-DECK (PARALLEL OR PERPENDICULAR TO FLUTES), BRACE WALL AS INDICATED OR REQUIRED.

C. AT ALL WALLS PREVENTED FROM TERMINATING AT THE UNDERSIDE OF FLOOR/ROOF DECK BY OBSTRUCTIONS, COMPLY WITH THE FOLLOWING:

- AT FIRE, SMOKE, AND ACOUSTICALLY RATED WALLS: ENCASE OBSTRUCTION(S) TO MAINTAIN ASSEMBLY RATING CONSISTENT WITH WALL/PARTITION REQUIREMENTS.
- AT SECURITY WALLS: TERMINATE IN ACCORDANCE WITH SECURITY PARTITION REQUIREMENTS.
- AT OTHER WALLS: ENCASE OBSTRUCTION(S) ON ONE SIDE.
- SEAL ENCASMENT TO WALL AND SEAL ENCASMENT TO DECK IN ACCORDANCE WITH JOINT SYSTEM MANUFACTURER'S RECOMMENDATIONS AND TO MAINTAIN ASSEMBLY RATING CONSISTENT WITH WALL/PARTITION REQUIREMENTS.

WALL JOINT GENERAL NOTES

A. LOCATE CONTROL JOINTS IN INTERIOR AND EXTERIOR WALLS AS INDICATED ON DRAWINGS.

B. JOINTS ARE INDICATED THUS ON PLANS AND ELEVATIONS.

C. WALLS AND JOINT TYPES/DETAILS ARE DIAGRAMMATIC. ADJUST JOINT TYPES/DETAILS IN ACCORDANCE WITH ACTUAL FIELD CONDITIONS.

D. PROVIDE TESTED JOINT ASSEMBLIES AT FIRE, SMOKE, AND ACOUSTICALLY RATED WALLS.

E. WHEN USED HEREIN "RATED" MEANS FIRE, SMOKE, AND/OR ACOUSTICAL.

F. REFER TO SPECIFICATIONS FOR ADDITIONAL WALL JOINT REQUIREMENTS.

WALL/PARTITION TYPE GENERAL NOTES

A. PLAN DIMENSIONS ARE TO FACE OF WALL OR PARTITION. WHERE APPLIED FINISHES OCCUR SUCH AS CERAMIC TILE DIMENSIONS ARE TO FACE OF APPLIED FINISH. FOR WAINSCOTS, FLOOR PLAN DIMENSIONS ARE TO FACE OF WAINSCOT MATERIAL. APPLIED FINISHES ARE NOT ALLOWED TO REDUCE CLEAR DIMENSIONS. "APPLIED FINISHES" IN THIS CASE DO NOT INCLUDE TRIM, BASE, AND ACOUSTIC WALL PANELS.

B. REFER TO REFLECTED CEILING PLANS LEGEND ON A2.2 FOR HEIGHT OF PARTITIONS.

C. ALL INTERIOR MASONRY UNIT PARTITIONS: M1 UNLESS INDICATED OTHERWISE.

D. ALL INTERIOR CFSF PANEL PARTITIONS: P1 UNLESS INDICATED OTHERWISE.

E. REFER TO STRUCTURAL DRAWINGS AND RELATED SPECIFICATIONS FOR SOLID MASONRY, GROUTING, AND REINFORCEMENT REQUIREMENTS INCLUDING BUT NOT BE LIMITED TO:

- MASONRY WALLS/PARTITIONS
- LINTELS
- LINTEL BEARING CONDITIONS
- BOND BEAMS
- SHELF BEARING CONDITIONS
- STRUCTURAL REINFORCING REQUIREMENTS
- CHANGES IN WYTHE

F. THE TERMS "WALL" AND "PARTITION" MAY BE USED INTERCHANGEABLY THROUGHOUT THE CONTRACT DOCUMENTS.

G. EXTEND ALL FIRE, SMOKE, INCIDENTAL USE, AND ACOUSTICALLY RATED WALLS/PARTITIONS TO UNDERSIDE OF FLOOR DECK, ROOF DECK, STRUCTURAL ELEMENT ENCASMENT OR SOLID CAP ABOVE.

- SEAL AND TERMINATE IN ACCORDANCE WITH JOINT SYSTEM TESTED ASSEMBLIES FOR RESPECTIVE TYPE OF WALLS/PARTITIONS, AND THE APPROPRIATE FIRE RATING.

H. PARTITIONS THAT DO NOT EXTEND TO UNDERSIDE OF DECK OR CAP ABOVE:

- EXTEND 4 INCHES MINIMUM ABOVE HIGHEST ADJACENT FINISH CEILING UNLESS INDICATED OTHERWISE.

I. DO NOT CONNECT TIES, ANCHORS, OR REINFORCING TO SINGLE CANTILEVERED FIRE WALL OR BETWEEN DOUBLE FIRE WALLS.

J. SEAL AROUND ALL PENETRATIONS.

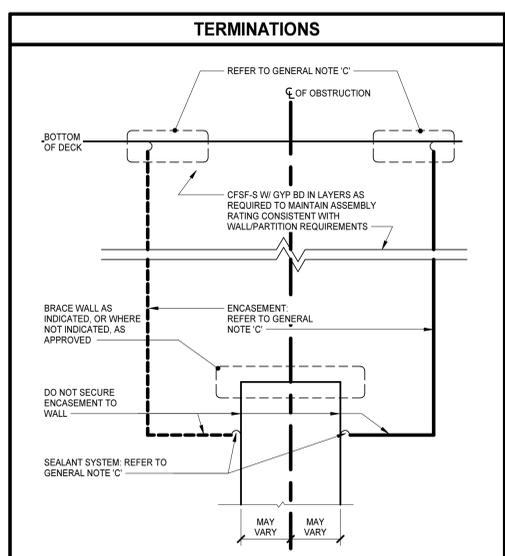
K. COMPLY WITH TERMINATION, WALL JOINT, AND MISCELLANEOUS DETAILS FOR THOSE CONDITIONS WHERE APPLICABLE. COMPLY WITH REFERENCED STANDARDS WHERE DETAILS ARE NOT IDENTIFIED IN THE DRAWINGS.

L. WALL/PARTITION TYPES DO NOT ADDRESS WALL FINISHES. REFER TO FINISH SCHEDULE.

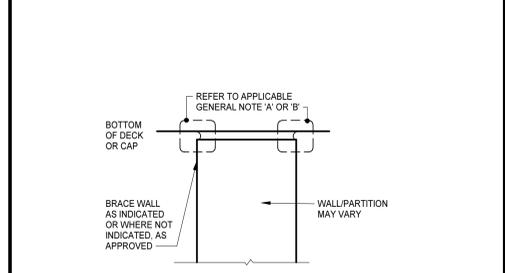
M. FINISHED SPACES: PROVIDE CHASES AROUND ALL EXPOSED VERTICAL COMPONENTS, INCLUDING BUT NOT LIMITED TO: DUCTWORK, PIPING, AND CONDUIT, UNLESS COMPONENTS ARE SPECIFICALLY INDICATED TO REMAIN EXPOSED. IF NOT OTHERWISE INDICATED, PROVIDE P2 CHASE CONSTRUCTION.

- HOLD CHASES TIGHT TO COMPONENTS ALLOWING FOR ACCESS, INSULATION, AND TOLERANCES.
- EXTEND CHASES FROM FLOOR TO 4 INCHES MINIMUM ABOVE FINISH CEILING OR IF NO CEILING IS INDICATED, EXTEND CHASES TO UNDERSIDE OF FLOOR DECK, ROOF DECK, OR SOLID CAP ABOVE AND TERMINATE ACCORDINGLY.

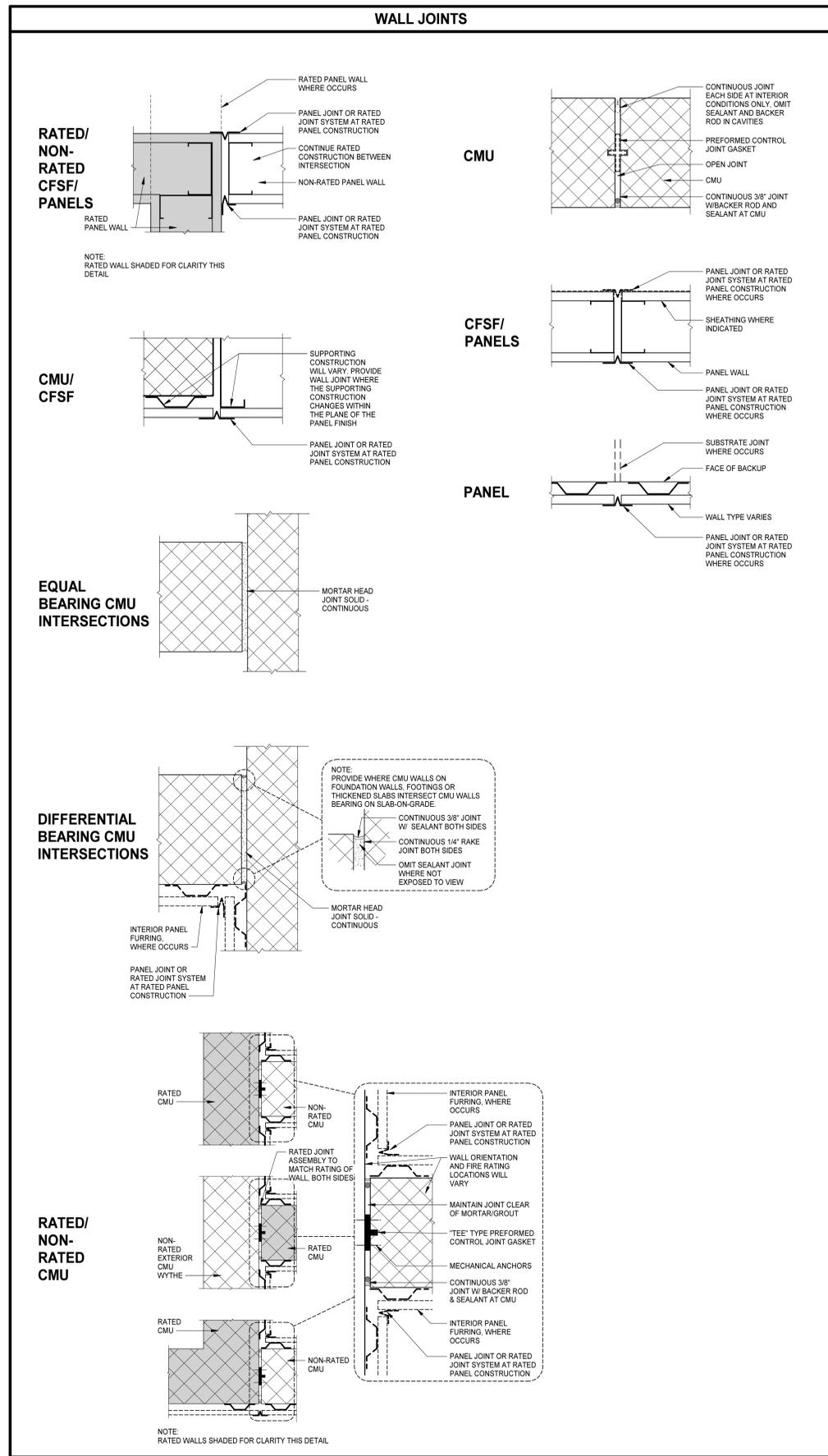
N. PROVIDE BACKER BOARD/UNIT OF SAME THICKNESS INDICATED IN LIEU OF GYPSUM BOARD PANEL AT PORTIONS OF WALLS/PARTITIONS TO RECEIVE TILE.



HEAD-OF-WALL TERMINATION @ OBSTRUCTION
 OBSTRUCTION MAY VARY (BEAM, JOIST, GIRDER, CHANNEL, DUCTWORK, PIPING)



HEAD-OF-WALL TERMINATION @ NON-OBSSTRUCTION



MASONRY UNIT WALL/PARTITION TYPES

REPRESENTED BY X_{mn}

MARK	FIRE RATED ASSEMBLY (REFER TO LS 2.1 FOR RATED ASSEMBLIES LEGEND)	REMARKS	INFORMATION
M1		1FB	

PANEL WALL/PARTITION TYPES

REPRESENTED BY X_{mn}

MARK	FIRE RATED ASSEMBLY (REFER TO LS 2.1 FOR RATED ASSEMBLIES LEGEND)	REMARKS	INFORMATION
P6	-	-	
P7	-	-	
P8	-	-	
P9	-	-	
P10	-	-	

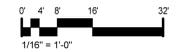
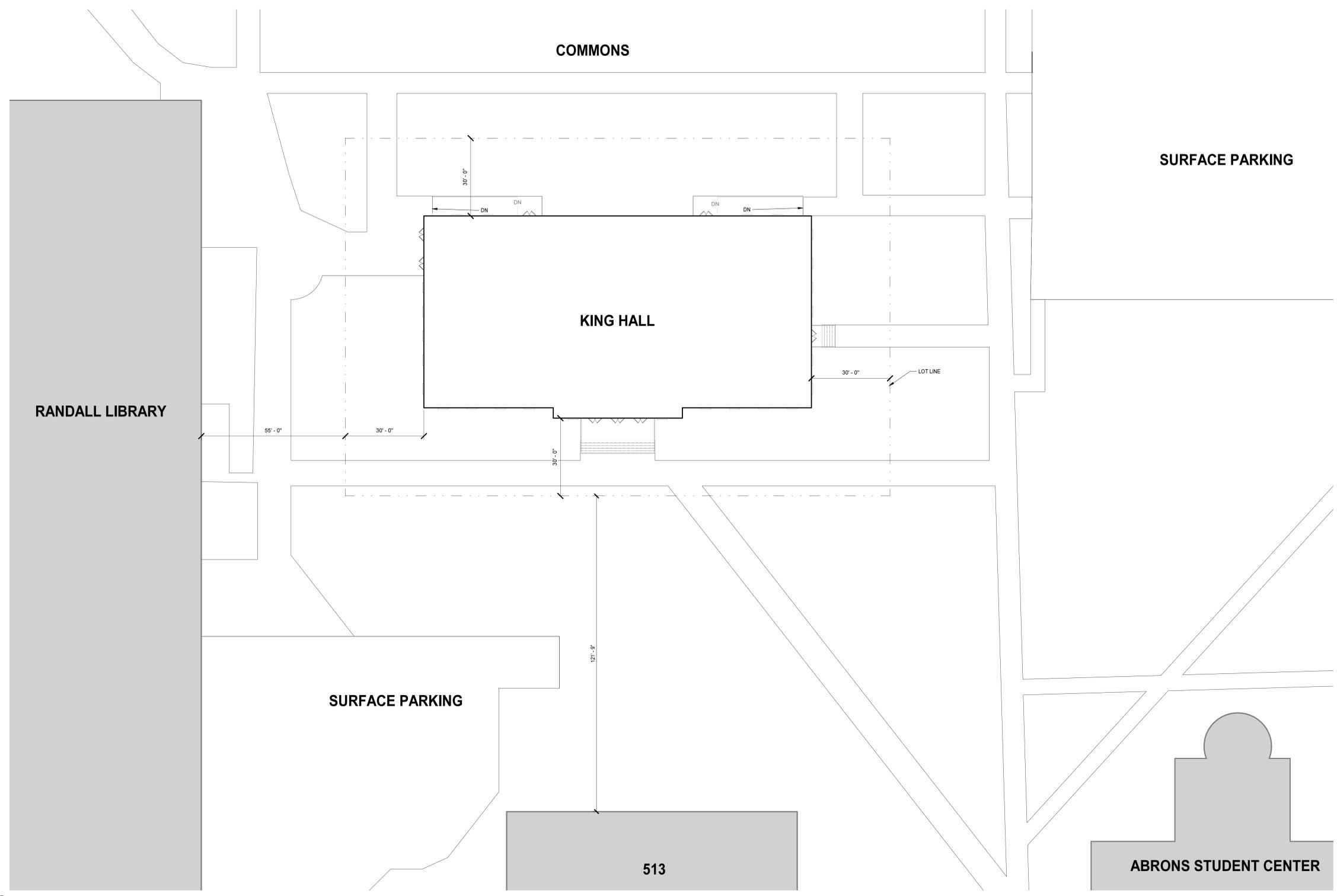
PANEL WALL/PARTITION TYPES

REPRESENTED BY X_{mn}

MARK	FIRE RATED ASSEMBLY (REFER TO LS 2.1 FOR RATED ASSEMBLIES LEGEND)	REMARKS	INFORMATION
P1	-	-	
P1A	-	(2) LAYERS OF GYP ONE SIDE @ P1A	
P2	-	-	
P2A	-	(2) LAYERS GYP @ P2A	
P2B	-	(3) LAYERS GYP @ P2 B	
P3	-	-	
P4	-	-	
P5	-	-	

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A



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PROJECT NO.	620589
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SITE PLAN

A1.0



PROJECT NO:	620589
DATE:	FEBRUARY 10, 2023
REVISIONS	
DATE	DESCRIPTION

DEMOLITION PLAN LEGEND

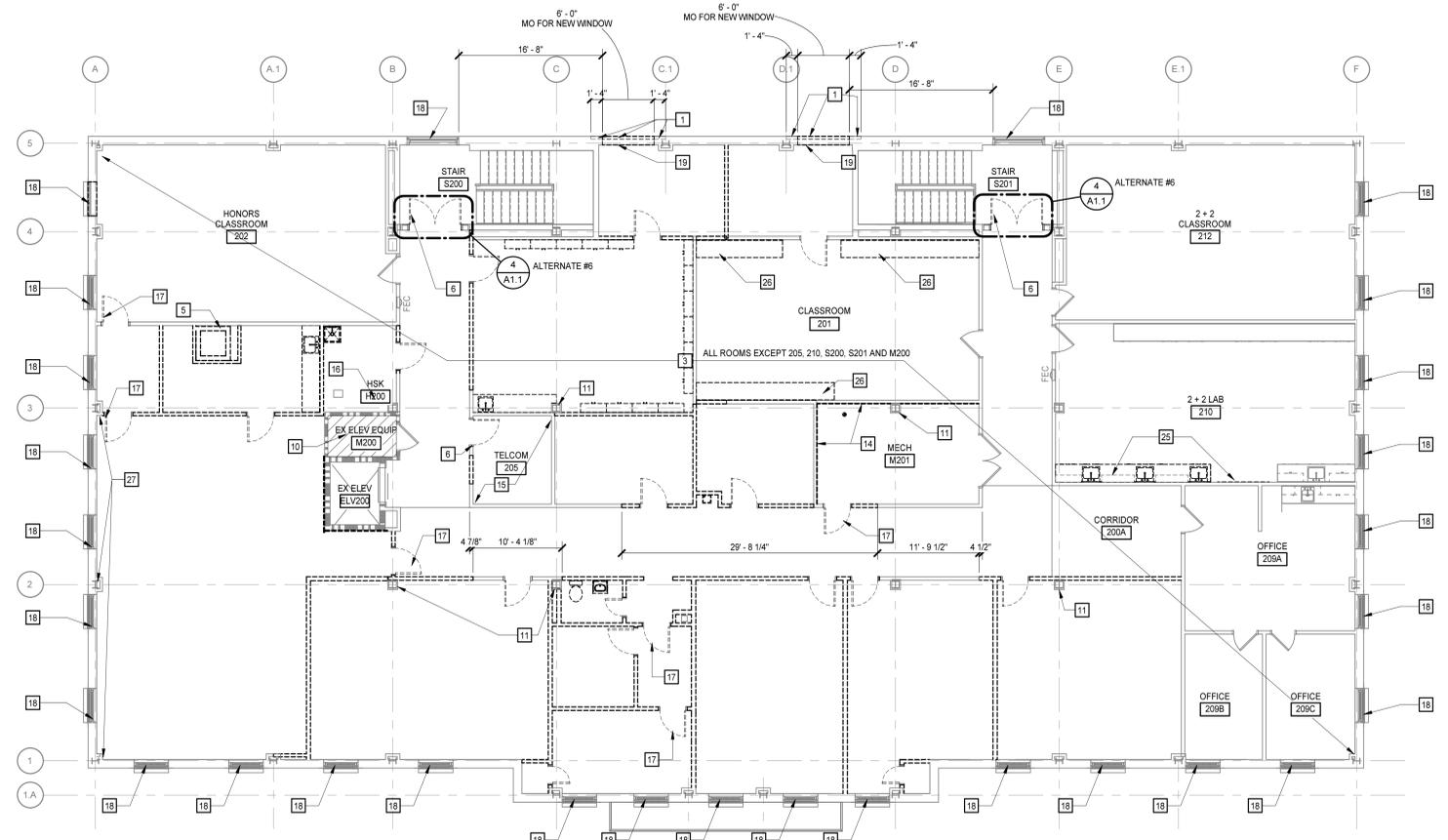
APPLIES TO DRAWINGS A1.1 - A1.2

	EXISTING PARTITION/WALL/ITEM TO REMAIN
	REMOVE EXISTING PARTITION/WALL/ITEM
	REMOVE EXISTING WINDOW ASSEMBLY AND FRAMING, INCLUDING ANCHORS
	REMOVE EXISTING DOOR AND FRAME ASSEMBLY INCLUDING DOOR HARDWARE, ANCHORS, AND THRESHOLD (WHERE OCCURS).
	REMOVE EXISTING PLUMBING FIXTURE. REFER TO PLUMBING DEMOLITION PLAN FOR ADDITIONAL INFORMATION.
	EXISTING CEILING ABOVE TO REMAIN

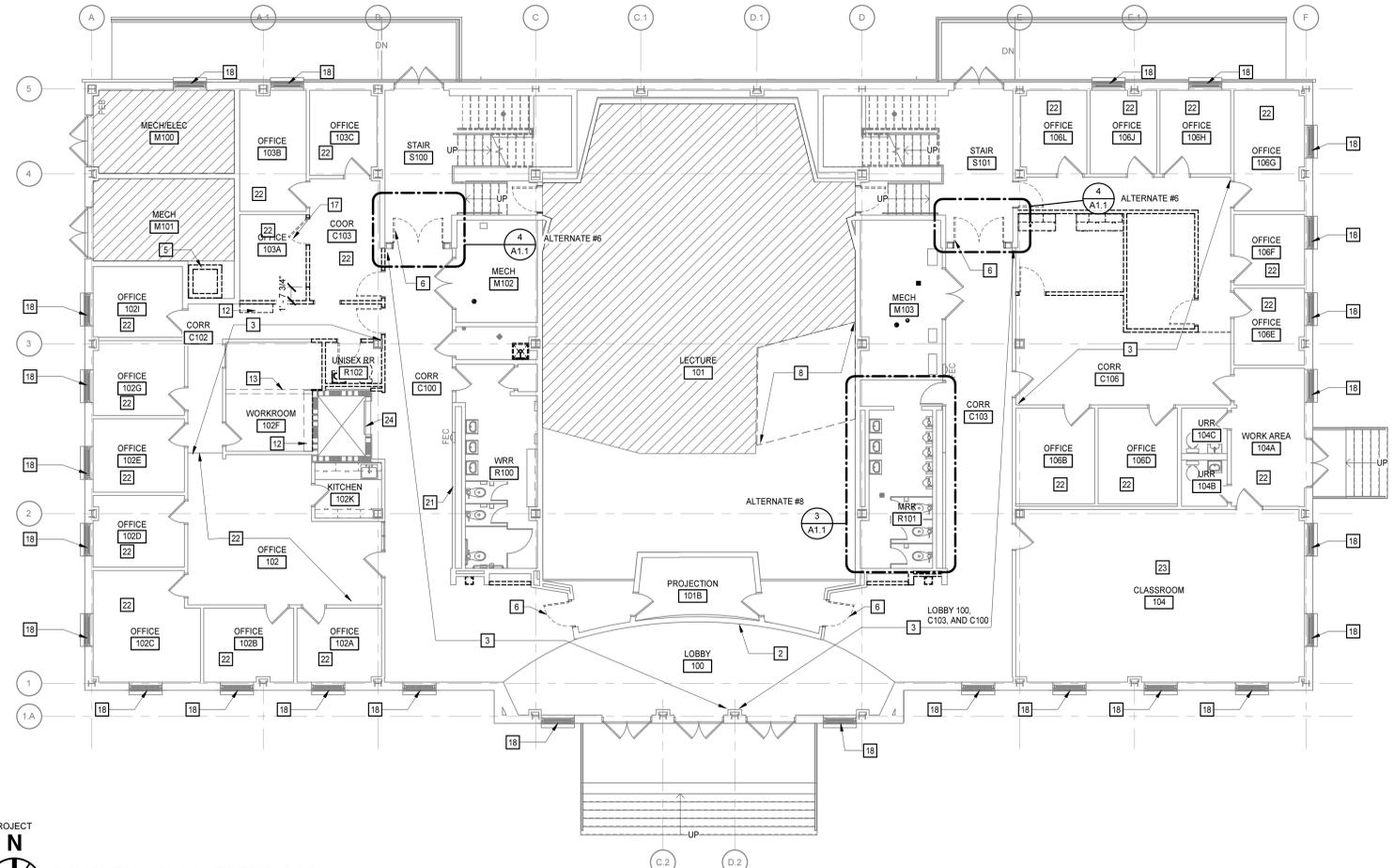
- ### DEMOLITION PLAN GENERAL NOTES
- ALL DEMOLITION WORK INDICATED IN THESE DRAWINGS INVOLVE REMOVAL OF EXISTING CONSTRUCTION UNDER THIS CONTRACT AND SHALL BE COORDINATED WITH CORRESPONDING PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS.
 - REMOVE EXISTING CONSTRUCTION AS INDICATED. DEMOLITION SHALL BE TO THE LEAST EXTENT POSSIBLE IN ORDER TO COMPLETE THE WORK. DO NOT PERFORM DEMOLITION BEYOND THE SCOPE OF CONSTRUCTION. FLOOR SLABS UNDER FLOORING REMOVED SHALL BE CLEAN OF ADHESIVES AND CHEMICAL RESIDUE.
 - FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS INDICATED ON THE DRAWINGS. COORDINATE THE SCOPE, DIMENSIONS, AND EXTENT OF THE DEMOLITION WORK TO BE PERFORMED WITH THE WORK.
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 - DAMAGE OCCURRING DURING SCOPE OF WORK SHALL BE PATCHED, REPAIRED, AND FINISHED TO MATCH ADJACENT SIMILAR CONDITIONS.
 - ACTUAL FIELD CONDITIONS WHICH ARE CONCEALED BY EXISTING CONSTRUCTION MAY VARY FROM THOSE INDICATED ON THE DRAWINGS. NOTIFY ARCHITECT AND OWNER OF ANY DISCREPANCIES.
 - REMOVE EXISTING CEILINGS, UNLESS OTHERWISE NOTED.
 - ALL COLUMN WRAPS TO REMAIN.
 - ALL VOICE, DATA, AND CATV CABLING MUST BE DEMOLISHED BY THE CERTIFIED VOICE AND DATA CONTRACTOR FOR THE SYSTMIX COMMSCOPE SOLUTION.
 - FIRE EXTINGUISHERS TO REMAIN IN CURRENT LOCATIONS. ANY EXTINGUISHERS THAT NEED TO BE REMOVED TO PERFORM THE WORK CONTRACTOR IS TO CONTACT EHS AT UNCW TO COORDINATE STORAGE.

- ### KING HALL ALTERNATE SUMMARY
- ALTERNATE #1: REPLACE EXISTING WINDOWS AND WINDOW SHADES
 REFER TO A1.1, A3.1.1, A3.1.1, AND A3.2.2
- ALTERNATE #2: RECOAT FLATROOF
 REFER TO A2.2
- ALTERNATE #3: PROVIDE CARPET PAINT AND BASE IN FIRST FLOOR OFFICES
 REFER TO A1.1 AND A3.0.1
- ALTERNATE #3A: PROVIDE CARPET PAINT AND BASE IN FIRST FLOOR CLASSROOM 104
 REFER TO A1.1 AND A3.0.1
- ALTERNATE #4: PROVIDE 2 NEW EXTERIOR WINDOWS AND WINDOW SHADES AT ROOM 201A
 REFER TO A1.1, A2.1, A3.1.1, A3.2.1, AND A4.1
- ALTERNATE #5: SCRAPE AND PAINT EXTERIOR TRIM
 REFER TO A4.1
- ALTERNATE #6: REPLACE HOLLOW METAL FRAMES @ DOORS S100, S101.2, S200, AND S201
 REFER TO A2.1, A3.1.1, AND A3.2.1
- ALTERNATE #7: CUSTOM WAYFINDING
 REFER TO A3.0.1
- ALTERNATE #8: RECONFIGURE AND UPDATE MENS TOILET ROOM
 REFER TO A1.1, A2.1, AND A2.3

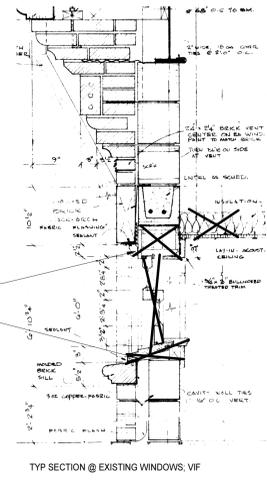
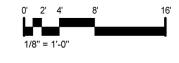
- ### DEMOLITION PLAN KEYNOTES
- REPRESENTED BY
- APPLIES TO DRAWINGS A1.1-A1.2
- ALTERNATE #4 REMOVE EXTERIOR FACE BRICK AND STORE FOR REINSTALLATION
 - REMOVE CURTAIN AND TRACK
 - REMOVE FLOORING
 - REMOVE TILE FLOOR
 - REMOVE MASONRY CHIMNEY
 - REMOVE DOOR PANEL(S) FRAME TO REMAIN
 - ALTERNATE #6 REMOVE DOOR FRAME
 - REMOVE HARD CEILING ABOVE AS REQUIRED TO INSTALL NEW DUCTWORK
 - REMOVE ROOF AS REQUIRED TO ACCOMMODATE MECHANICAL EQUIPMENT, COORDINATE WITH FINAL MECHANICAL EQUIPMENT SELECTIONS
 - 2 FB HORIZONTAL ASSEMBLY ABOVE TO REMAIN
 - GYPSUM COLUMN WRAP TO REMAIN
 - REMOVE AND REINSTALL WALL MOUNTED SHELVING
 - REMOVE ABANDONED ROOM DIVIDER TRACK ABOVE
 - REMOVE GYPSUM BOARD M201 SIDE OF WALL
 - PROTECT EQUIPMENT AS NEEDED TO PERFORM WORK
 - EXISTING ATTIC AND ROOF ACCESS LADDER TO REMAIN. PROTECT AS REQUIRED.
 - REMOVE REFURBISH AND REINSTALL DOOR PANEL
 - ALTERNATE #1 REMOVE EXISTING WINDOW AND TRIM. REFER TO ALTERNATE 1 DEMOLITION DETAIL FOR ADDITIONAL INFORMATION
 - ALTERNATE #4 REMOVE EXTERIOR WALL AS REQUIRED TO INSTALL NEW WINDOW AWI
 - ALTERNATE #1 REMOVE EXISTING TRIM
 - REMOVE GYPSUM BOARD AS REQUIRED TO INSTALL PIPE
 - ALTERNATE #8: REMOVE FLOORING
 - ALTERNATE #3A: REMOVE FLOORING
 - REMOVE DOOR REOPENING DEVICE
 - REMOVE CASEWORK, SHELVING, SINKS, PEG BOARDS AND WHITEBOARD
 - REMOVE CASEWORK
 - REPAIR COLUMN WRAPS



PROJECT
 N
DEMOLITION PLAN - SECOND FLOOR
 1/8" = 1'-0"
 POLAR



PROJECT
 N
DEMOLITION PLAN - FIRST FLOOR
 1/8" = 1'-0"
 POLAR



ALTERNATE #1 DEMOLITION DETAIL
 NO SCALE

4
 A1.1/A1.1
ALTERNATE 6 DEMOLITION PLAN
 1/8" = 1'-0"

3
 A1.1/A1.1
ALTERNATE 8 DEMOLITION PLAN
 1/8" = 1'-0"



PROJECT NO:	620589
DATE:	FEBRUARY 10, 2023
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DEMOLITION PLAN LEGEND

APPLIES TO DRAWINGS A1.1 - A1.2

- EXISTING PARTITION/WALL/ITEM TO REMAIN
- REMOVE EXISTING PARTITION/WALL/ITEM
- REMOVE EXISTING WINDOW ASSEMBLY AND FRAMING, INCLUDING ANCHORS
- REMOVE EXISTING DOOR AND FRAME ASSEMBLY INCLUDING DOOR HARDWARE, ANCHORS, AND THRESHOLD (WHERE OCCURS)
- REMOVE EXISTING PLUMBING FIXTURE. REFER TO PLUMBING DEMOLITION PLAN FOR ADDITIONAL INFORMATION.
- EXISTING CEILING ABOVE TO REMAIN

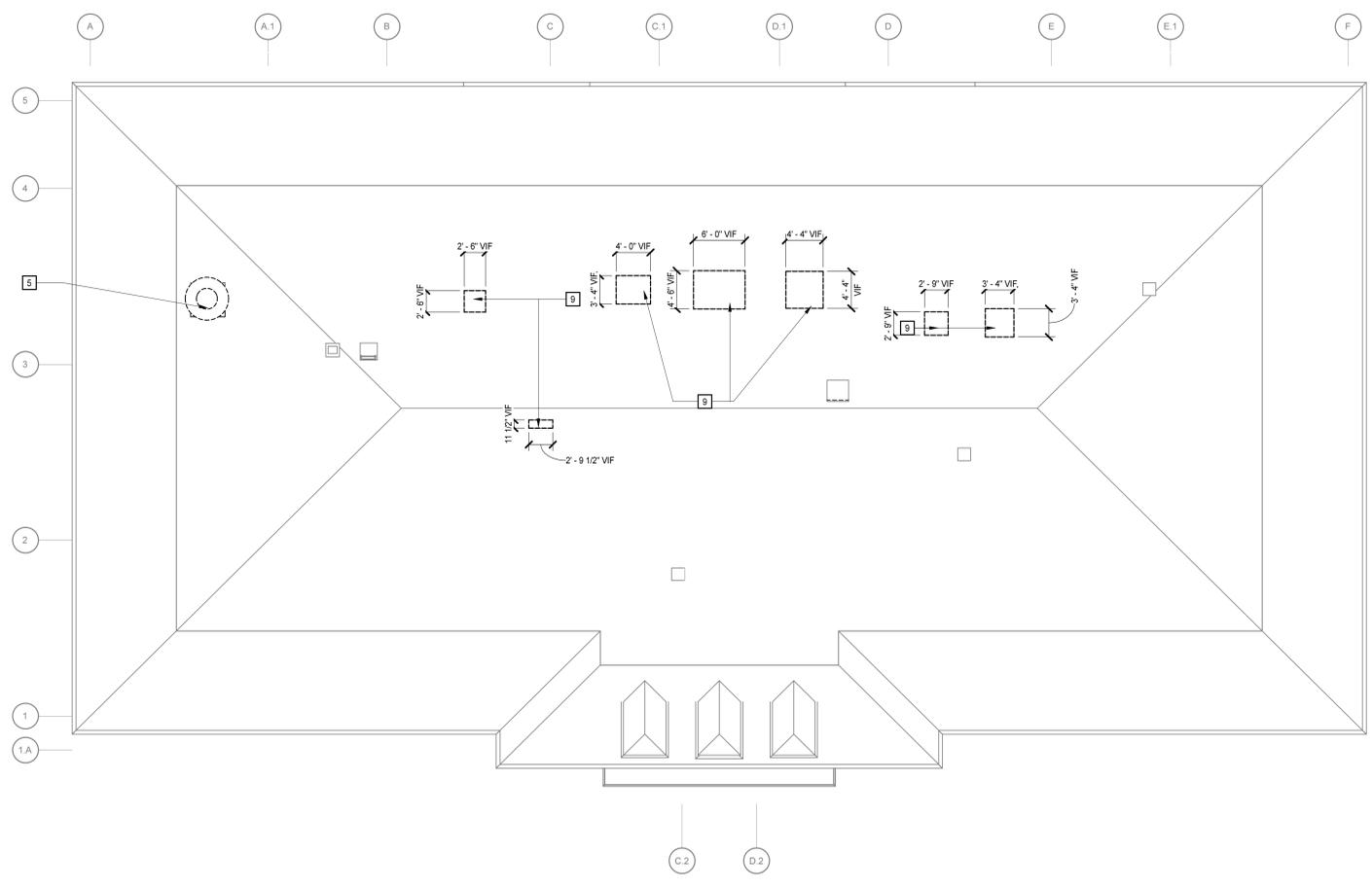
DEMOLITION PLAN GENERAL NOTES

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- REMOVE EXISTING CEILINGS, UNLESS OTHERWISE NOTED.
- ALL COLUMN WRAPS TO REMAIN.
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DEMOLITION PLAN KEYNOTES

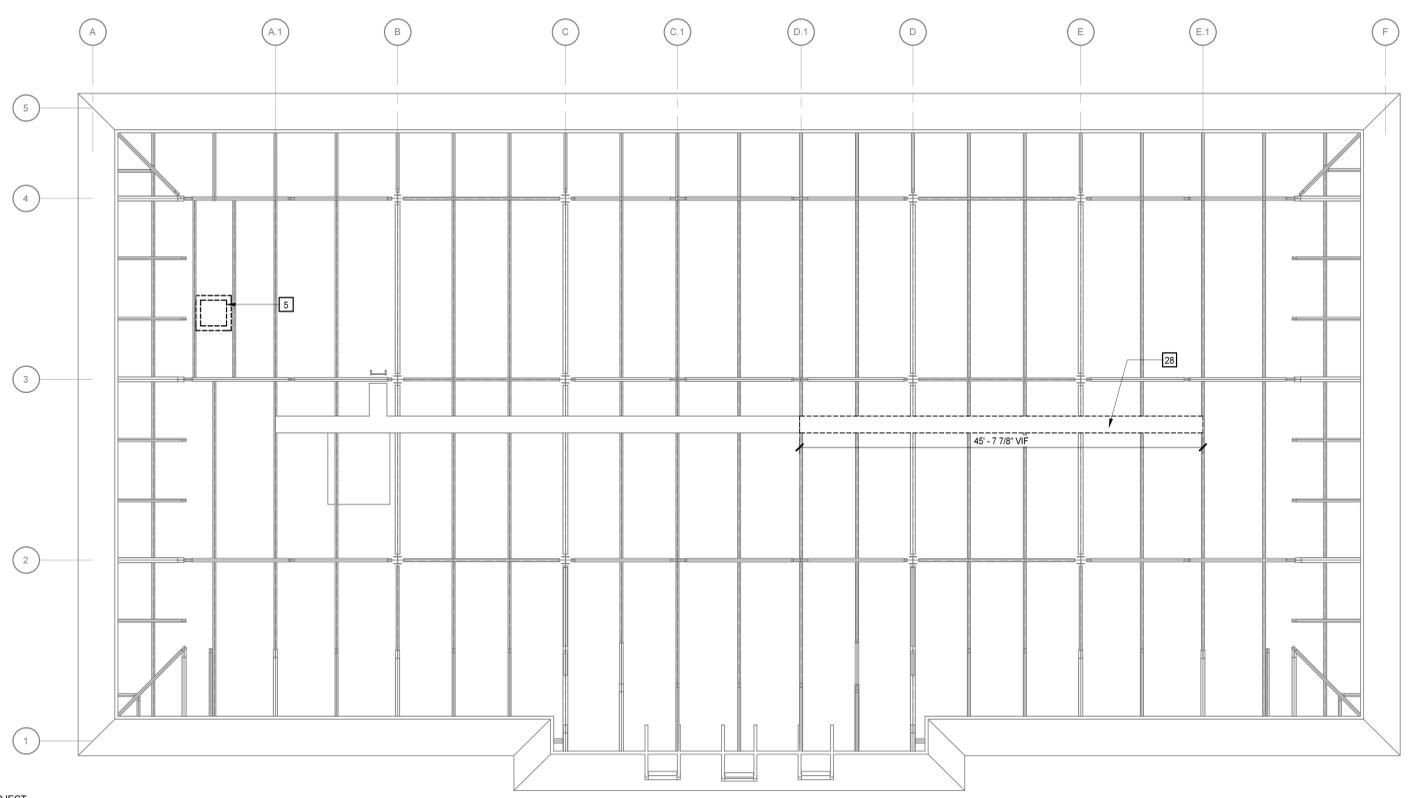
REPRESENTED BY [n]
 APPLIES TO DRAWINGS A1.1-A1.2

- ALTERNATE #4 REMOVE EXTERIOR FACE BRICK AND STORE FOR REINSTALLATION
- REMOVE CURTAIN AND TRACK
- REMOVE FLOORING
- REMOVE TILE FLOOR
- REMOVE MASONRY CHIMNEY
- REMOVE DOOR PANEL(S) FRAME TO REMAIN
- ALTERNATE # 6, REMOVE DOOR FRAME
- REMOVE HARD CEILING ABOVE AS REQUIRED TO INSTALL NEW DUCTWORK
- REMOVE ROOF AS REQUIRED TO ACCOMMODATE MECHANICAL EQUIPMENT, COORDINATE WITH FINAL MECHANICAL EQUIPMENT SELECTIONS
- 2 FB HORIZONTAL ASSEMBLY ABOVE TO REMAIN
- GYPSUM COLUMN WRAP TO REMAIN
- REMOVE AND REINSTALL WALL MOUNTED SHELVING
- REMOVE ABANDONED ROOM DIVIDER TRACK ABOVE
- REMOVE GYPSUM BOARD M201 SIDE OF WALL
- PROTECT EQUIPMENT AS NEEDED TO PERFORM WORK
- EXISTING ATTIC AND ROOF ACCESS LADDER TO REMAIN. PROTECT AS REQUIRED.
- REMOVE REFURBISH AND REINSTALL DOOR PANEL.
- ALTERNATE # 1 REMOVE EXISTING WINDOW AND TRIM. REFER TO ALTERNATE 1 DEMOLITION DETAIL FOR ADDITIONAL INFORMATION
- ALTERNATE #4 REMOVE EXTERIOR WALL AS REQUIRED TO INSTALL NEW WINDOW AWI
- ALTERNATE # 1 REMOVE EXISTING TRIM
- REMOVE GYPSUM BOARD AS REQUIRED TO INSTALL PIPE
- ALTERNATE #3 REMOVE FLOORING
- ALTERNATE #3A REMOVE FLOORING
- REMOVE DOOR REOPENING DEVICE
- REMOVE CASEWORK, SHELVING, SINKS, PEG BOARDS AND WHITEBOARD
- REMOVE CASEWORK
- REPAIR COLUMN WRAPS



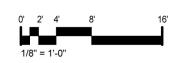
PROJECT

ROOF DEMOLITION PLAN
 1/8" = 1'-0"



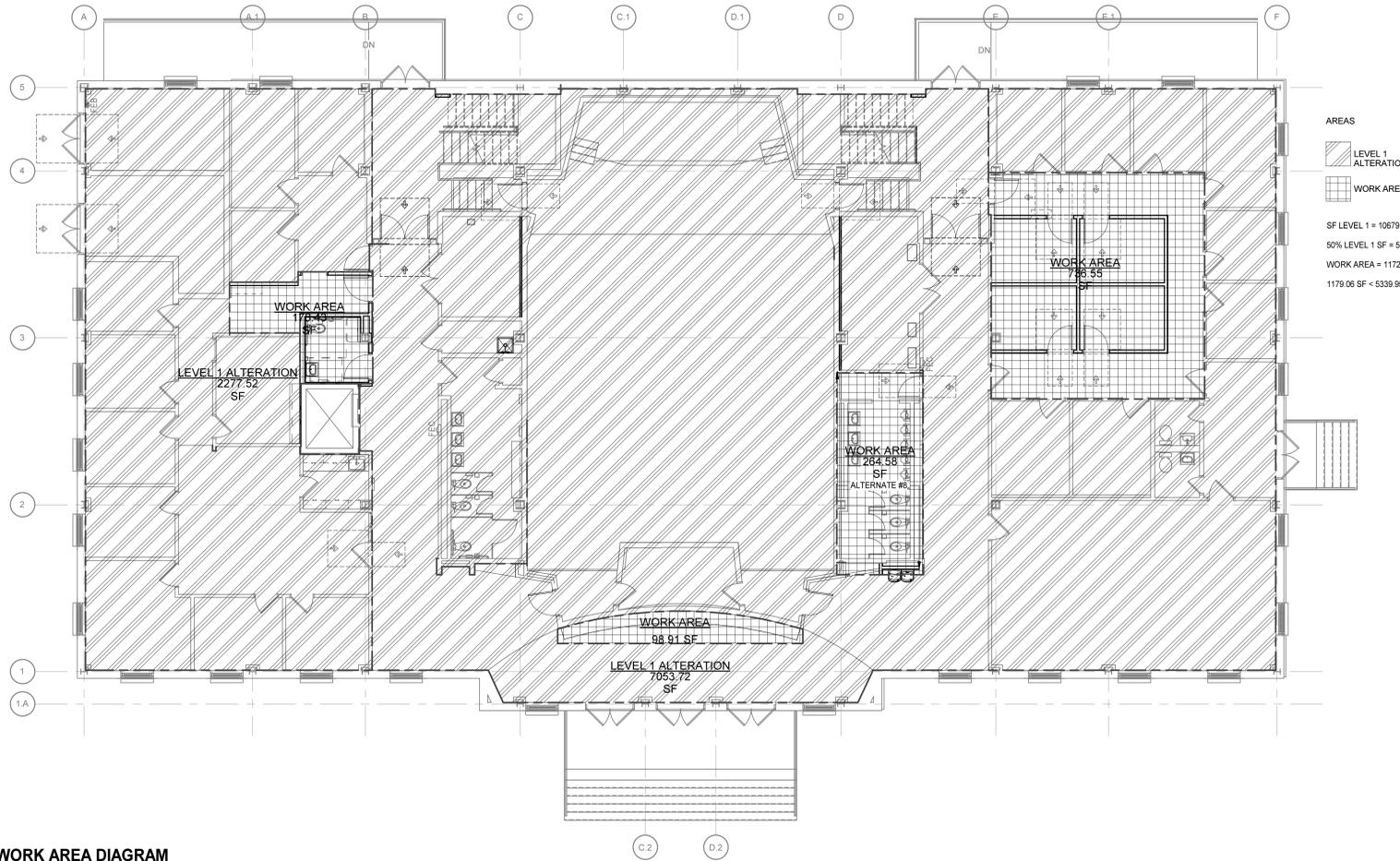
PROJECT

ATTIC DEMOLITION PLAN
 1/8" = 1'-0"



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PROJECT N
FIRST FLOOR WORK AREA DIAGRAM
1/8" = 1'-0"
POLAR



0 2 4 8 16'
1/8" = 1'-0"

PROJECT N
SECOND FLOOR WORK AREA DIAGRAM
1/8" = 1'-0"
POLAR



WORK AREA DIAGRAMS

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SCOR#22-24639-01A
601 Hamilton Drive, Wilmington, NC 28403

PROJECT NO:	620389
DATE:	NOVEMBER 18, 2022
REVISIONS	
DATE	DESCRIPTION

A1.3



MOSELEY ARCHITECTS

911 N. WEST STREET, SUITE 205 RALEIGH, NORTH CAROLINA, 27603
PHONE (919) 840-0081
MOSELEYARCHITECTS.COM



PROJECT NO.	620589
DATE	FEBRUARY 10, 2023
REVISIONS	
DATE	
DESCRIPTION	

FLOOR PLAN KEYNOTES

- REPRESENTED BY: [Signature]
- APPLIES TO DRAWINGS A2.1 - A2.m
- CONCRETE SLAB INFILL: REFER TO FLOOR INFILL SUPPORT DETAIL S1.1 FOR ADDITIONAL INFORMATION
 - PATCH ROOF: REFER TO DETAIL 3A2.2
 - 6" CFSF-S FILLED WITH BATT INSULATION
 - REPAIR GYP WALL PATCH: FINISH TO MATCH EXISTING ADJACENT
 - EXISTING RATED HORIZONTAL ASSEMBLIES TO REMAIN
 - REINSTALL SHELVING
 - REINSTALL SHELVING
 - ALTERNATE #8 INSTALL NEW 45 MIN HOLLOW METAL FRAME REFER TO A3.1.1 FOR ADDITIONAL INFORMATION
 - AUTO OPERATOR
 - ROOF MEMBRANE
 - 1/2" COVER BOARD
 - 1 1/2" MIN TAPERED POLYISOCYANURATE INSULATION
 - 1 1/2" CORRUGATED METAL DECK: REFER TO ROOF INFILL DETAIL ON S1.1 FOR ADDITIONAL INFORMATION
 - UNISTRUT: REFER TO ROOF INFILL DETAIL ON S1.1 FOR ADDITIONAL INFORMATION
 - FILL EXISTING STUD CAVITY WITH SOUND ATTENUATION BLANKETS
 - PATCH CMU WALL ABOVE WHERE DUCTWORK WAS REMOVED. VERIFY DIMENSIONS AND LOCATIONS OF OPENINGS IN FIELD
 - OFCI SEMI RECESSED AED CABINET: 3'-0" AFF MAX TO LATCH
 - ALTERNATE #1 REPLACE EXISTING WINDOW WITH AW 1: REFER TO A3.1.1 AND 12/A3.2.2 FOR ADDITIONAL INFORMATION
 - ALTERNATE #1 REPLACE EXISTING WINDOW WITH AW 1: REFER TO A3.1.1 AND 10/A3.2.2 FOR ADDITIONAL INFORMATION
 - PATCH AND REPAIR WALL WHERE PIPE INSTALLATION OCCURS
 - INSTALL DOOR REOPENING DEVICE
 - EXISTING COLUMN WRAP TO REMAIN
 - VERIFY LOCATION OF JOISTS BELOW AND COORDINATE PLUMBING PENETRATIONS
 - BENCH REFER TO 8/A8.1 FOR ADDITIONAL INFORMATION
 - MARKER BOARD
 - SIGN TYPE 5: REFER TO A3.3.0
 - KNOX BOX
 - MOUNTING HEIGHT FOR ACCESSIBLE SPOUT SHALL BE 36" MAX ABOVE FLOOR
 - EXISTING CATWALK
 - NEW CATWALK
 - 1 1/2" PAINTED STEEL PIPE POST 4'-0" OC MAX
 - 4'-0" WIDE STEEL PIPE RAIL
 - STEEL PIPE RAIL GUARD AROUND PERIMETER OF CATWALK

KING HALL ALTERNATE SUMMARY

- ALTERNATE #1: REPLACE EXISTING WINDOWS AND WINDOW SHADES REFER TO A1.1, A3.1.1, AND A3.2.2
- ALTERNATE #2: RECOAT FLATROOF REFER TO A2.2
- ALTERNATE #3: PROVIDE CARPET PAINT AND BASE IN FIRST FLOOR OFFICES REFER TO A1.1 AND A3.0.1
- ALTERNATE #3A: PROVIDE CARPET PAINT AND BASE IN FIRST FLOOR CLASSROOM 104 REFER TO A1.1 AND A3.0.1
- ALTERNATE #4: PROVIDE 2 NEW EXTERIOR WINDOWS AND WINDOW SHADES AT ROOM 201A REFER TO A1.1, A2.1, A3.1.1, A3.2.1, AND A4.1
- ALTERNATE #5: SCRAPE AND PAINT EXTERIOR TRIM REFER TO A3.1.1
- ALTERNATE #6: REPLACE HOLLOW METAL FRAMES @ DOORS S100, S101.2, S200, AND S201 REFER TO A2.1, A3.1.1, AND A3.2.1
- ALTERNATE #7: CUSTOM WAYFINDING REFER TO A3.1.1
- ALTERNATE #8: RECONFIGURE AND UPDATE MENS TOILET ROOM REFER TO A1.1, A2.1, AND A2.3

FLOOR PLAN GENERAL NOTES

- A. REFER TO A3.0.1 FOR FINISH SCHEDULE AND PLANS FOR CASEWORK AND FINISH INFORMATION
- B. REFER TO LS2.1 FOR RATED ASSEMBLIES LEGEND INDICATED BY [Symbol]

TOILET ASSEMBLIES

APPLIES TO DRAWING A2.1

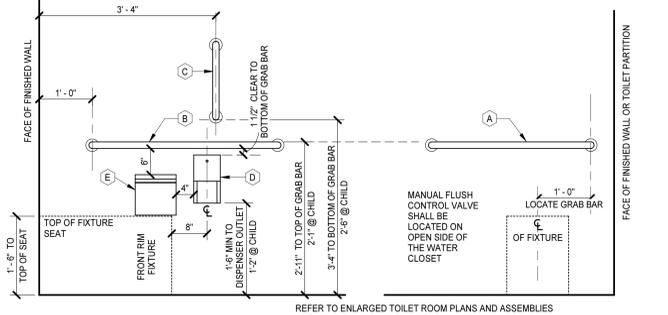
REPRESENTED BY: [Signature]

MARK	REMARKS	PLAN	MARK	REMARKS	PLAN
TA1			TA9	NOTE D	
TA2	OMIT (E)		TA10	NOTE D	
TA3			TA11	CENTER OVER LAVATORY	
TA4	OMIT (E)		LEGEND NOTES:		
TA7			A. HANDING/ORIENTATION MAY VARY. REFER TO PLANS FOR PROPER ORIENTATION.		
TA8	OMIT (E)		B. PLUMBING FIXTURE GRAPHICS IN THIS LEGEND ARE REPRESENTATIVE ONLY. ACTUAL PLUMBING FIXTURES MAY VARY.		

TOILET ACCESSORIES SCHEDULE

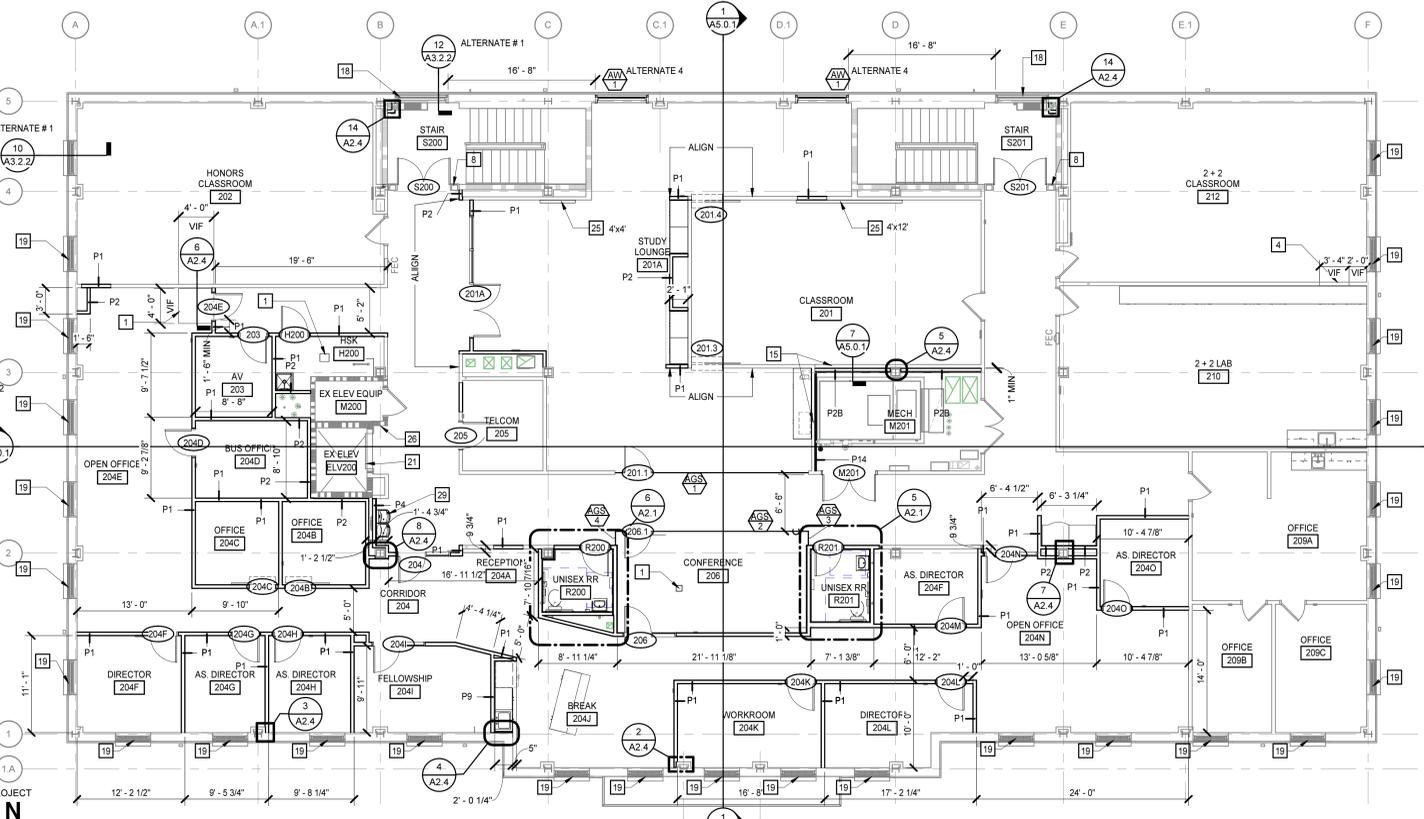
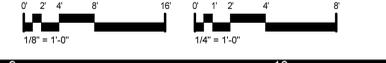
MARK	DESCRIPTION	MOUNTING HEIGHT	REMARKS
A	36" HORIZONTAL GRAB BAR	REFER TO WATER CLOSET ELEVATIONS	
B	42" HORIZONTAL GRAB BAR	REFER TO WATER CLOSET ELEVATIONS	
C	18" VERTICAL GRAB BAR	REFER TO WATER CLOSET ELEVATIONS	
D	TOILET TISSUE DISPENSER	REFER TO WATER CLOSET ELEVATIONS	OWNER FURNISHED CONTRACTOR INSTALLED
E	SANITARY NAPKIN DISPOSAL	REFER TO WATER CLOSET ELEVATIONS	OWNER FURNISHED CONTRACTOR INSTALLED
F	SOAP DISPENSER	3'-4" AFF TO DISPENSING OUTLET	OWNER FURNISHED CONTRACTOR INSTALLED
G	MIRROR (24" x 48"), OVER LAV AND COUNTERTOP	3'-4" AFF TO BOTTOM OF REFLECTIVE SURFACE	
Q	PAPER TOWEL DISPENSER	3'-4" AFF TO DISPENSING OUTLET	OWNER FURNISHED CONTRACTOR INSTALLED
R	CHANGING STATION	3'-6" MAX AFF TO LATCH	

- ACCESSORY ITEMS ARE IDENTIFIED BY [Symbol] ON PLANS. LETTERS CORRESPOND TO SCHEDULE ABOVE.
- ACTUAL DIMENSIONS OF ACCESSORIES MAY VARY. COORDINATE DIFFERENCES, IF ANY.
- REFER TO ALL CASEWORK ELEVATIONS FOR ADDITIONAL TOILET ACCESSORY LOCATIONS.
- PROVIDE MOP AND BROOM HOLDER W/ SHELF @ ALL CUSTODIAL/JANITORIAL SINKS. MOUNT AT 5'-0" AFF TO CENTERLINE AND LOCATE ON SIDE WALL OF SINK (NOT ON WALL ABOVE FAUCET).
- PROVIDE ROBE HOOK ON INTERIOR FACE OF ALL TOILET ROOM DOORS WHEREIN ONLY ONE WATER CLOSET IS PROVIDED. MOUNT AT 3'-11" AFF TO TOP.



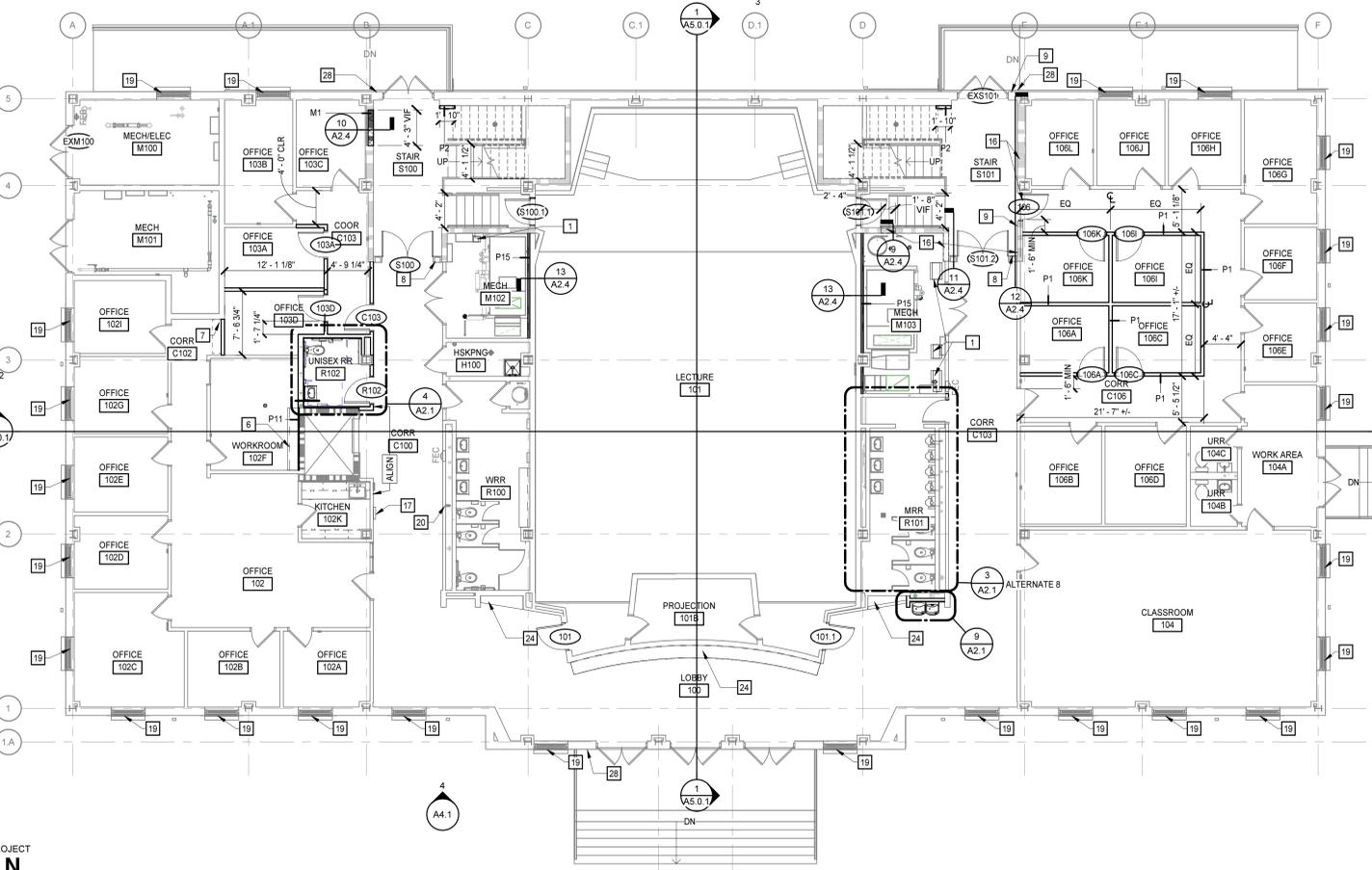
WATER CLOSET ELEVATIONS

NO SCALE



SECOND FLOOR

1/8" = 1'-0"

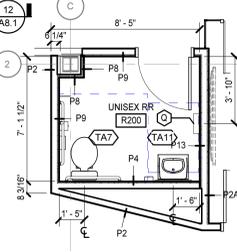


FIRST FLOOR

1/8" = 1'-0"

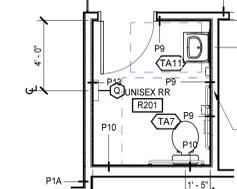
9 ENLARGED PLAN

A2.1/A2.1 1/4" = 1'-0"



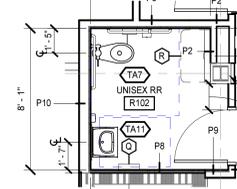
6 ENLARGED PLAN

A2.1/A2.1 1/4" = 1'-0"



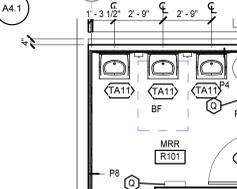
5 ENLARGED PLAN

A2.1/A2.1 1/4" = 1'-0"



4 ENLARGED PLAN

A2.1/A2.1 1/4" = 1'-0"



3 ALTERNATE 8 MENS TOILET ROOM PLAN

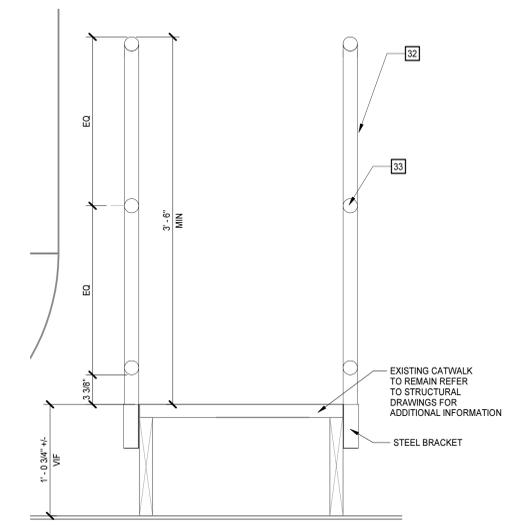
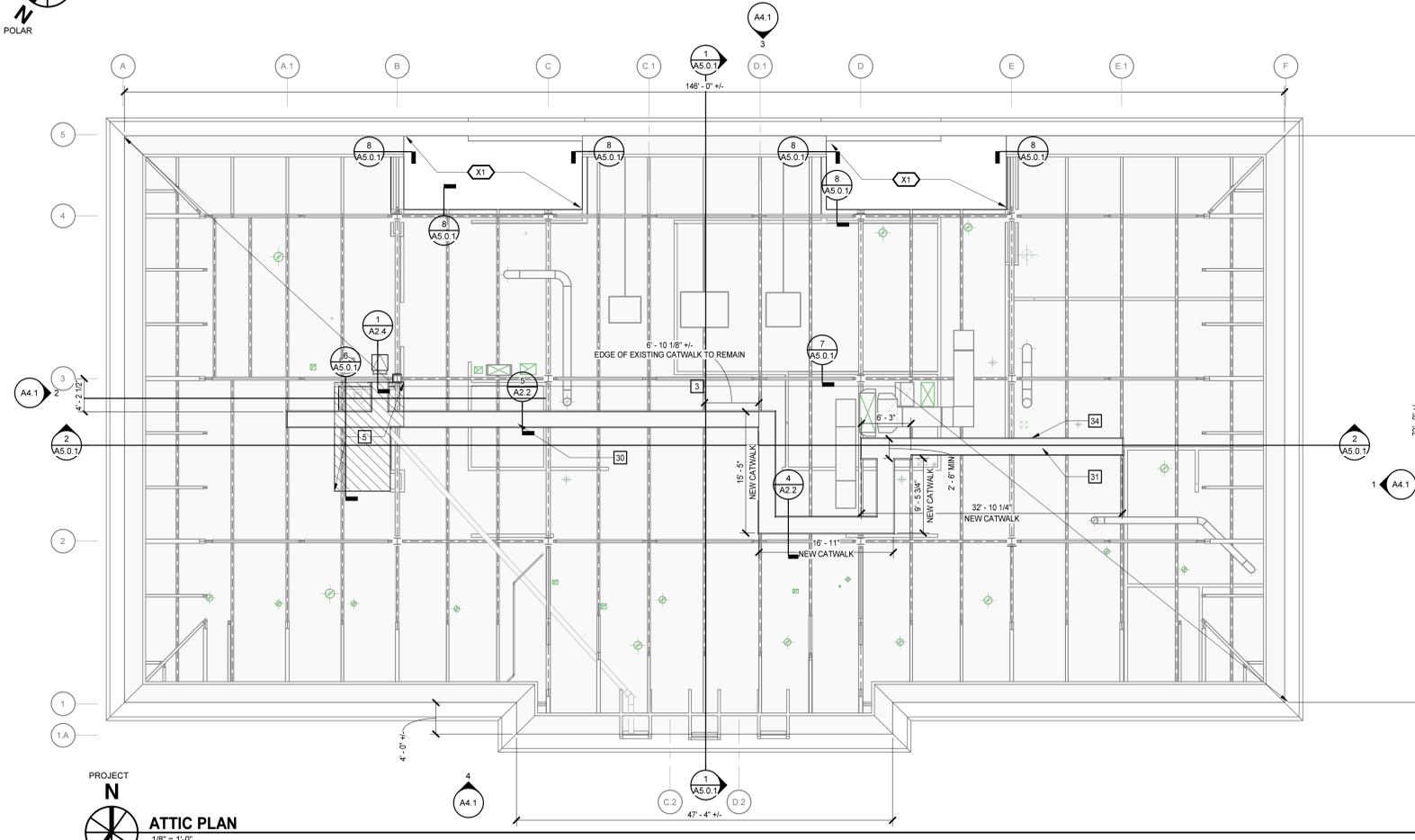
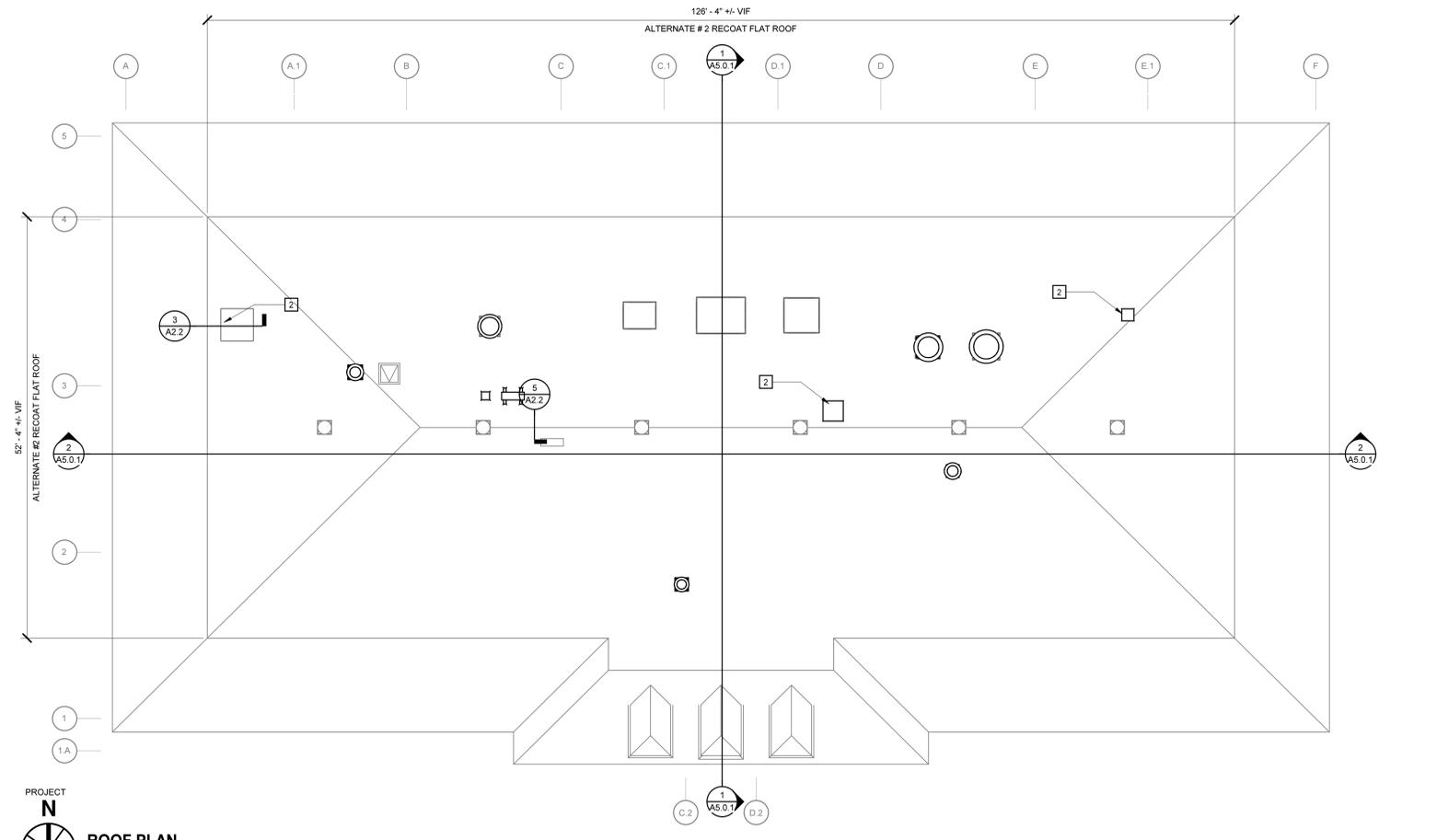
A2.1/A2.1 1/4" = 1'-0"



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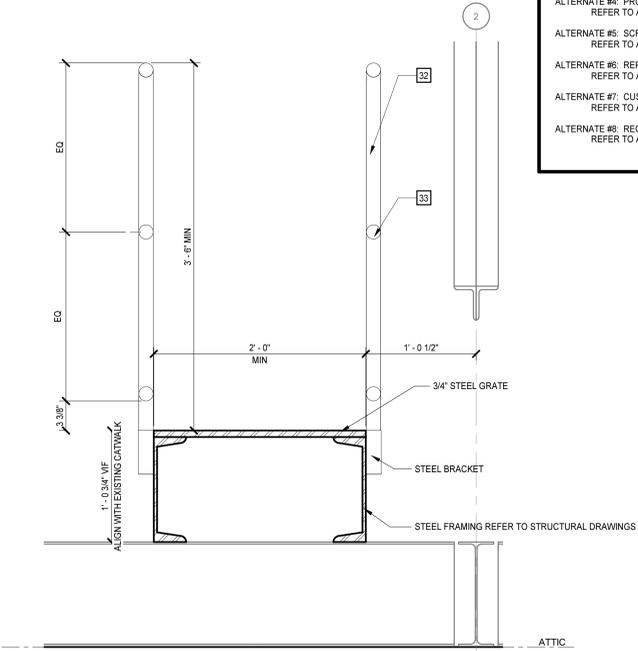
FLOOR PLAN KEYNOTES	
REPRESENTED BY [Symbol]	
APPLIES TO DRAWINGS A2.1 - A2.n	
1	CONCRETE SLAB INFILL: REFER TO FLOOR INFILL SUPPORT DETAIL S1.1 FOR ADDITIONAL INFORMATION
2	PATCH ROOF: REFER TO DETAIL SIA2.2
3	6" CRSF-S FILLED WITH BATT INSULATION
4	REPAIR GYP WALL PATCH; FINISH TO MATCH EXISTING ADJACENT
5	EXISTING RATED HORIZONTAL ASSEMBLIES TO REMAIN
6	REINSTALL SHELVING
7	REINSTALL SHELVING
8	ALTERNATE #8 INSTALL NEW 45 MIN HOLLOW METAL FRAME REFER TO A3.1.1 FOR ADDITIONAL INFORMATION
9	AUTO OPERATOR
10	ROOF MEMBRANE
11	1/2" COVER BOARD
12	1 1/2" MIN TAPERED POLYISOCYANURATED INSULATION
13	2 1/2" CORRUGATED METAL DECK: REFER TO ROOF INFILL DETAIL ON S1.1 FOR ADDITIONAL INFORMATION
14	UNSTRUCT: REFER TO ROOF INFILL DETAIL ON S1.1 FOR ADDITIONAL INFORMATION
15	FILL EXISTING STUD CAVITY WITH SOUND ATTENUATION BLANKETS
16	PATCH CMU WALL ABOVE WHERE DUCTWORK WAS REMOVED; VERIFY DIMENSIONS AND LOCATIONS OF OPENINGS IN FIELD
17	OCF SEMI RECESSED AED CABINET; 3'-6" AFF MAX TO LATCH
18	ALTERNATE #1 REPLACE EXISTING WINDOW WITH AW1; REFER TO A3.1.1 AND 12/A3.2.2 FOR ADDITIONAL INFORMATION
19	ALTERNATE #1 REPLACE EXISTING WINDOW WITH AW1; REFER TO A3.1.1 AND 10/A3.2.2 FOR ADDITIONAL INFORMATION
20	PATCH AND REPAIR WALL WHERE PIPE INSTALLATION OCCURS
21	INSTALL DOOR REOPENING DEVICE
22	EXISTING COLUMN WRAP TO REMAIN
23	VERIFY LOCATION OF JOISTS BELOW AND COORDINATE PLUMBING PENETRATIONS
24	BENCH REFER TO SIA2.1 FOR ADDITIONAL INFORMATION
25	MARKER BOARD
26	SIGN TYPE 5; REFER TO A3.3.0
28	KNOX BOX
29	MOUNTING HEIGHT FOR ACCESSIBLE SPOUT SHALL BE 36" MAX ABOVE FLOOR
30	EXISTING CATWALK
31	NEW CATWALK
32	1 1/2" PAINTED STEEL PIPE POST 4'-0" OC MAX
33	1 1/2" PAINTED STEEL PIPE RAIL
34	PAINTED STEEL GUARD AROUND PERIMETER OF CATWALK

KING HALL ALTERNATE SUMMARY	
ALTERNATE #1	REPLACE EXISTING WINDOWS AND WINDOW SHADES REFER TO A1.1, A2.1, A3.1.1, AND A3.2.2
ALTERNATE #2	RECOAT FLATROOF REFER TO A2.2
ALTERNATE #3	PROVIDE CARPET PAINT AND BASE IN FIRST FLOOR OFFICES REFER TO A1.1 AND A3.0.1
ALTERNATE #3A	PROVIDE CARPET PAINT AND BASE IN FIRST FLOOR CLASSROOM 104 REFER TO A1.1 AND A3.0.1
ALTERNATE #4	PROVIDE 2 NEW EXTERIOR WINDOWS AND WINDOW SHADES AT ROOM 201A REFER TO A1.1, A2.1, A3.1.1, A3.2.1, AND A4.1
ALTERNATE #5	SCRAPE AND PAINT EXTERIOR TRIM REFER TO A4.1
ALTERNATE #6	REPLACE HOLLOW METAL FRAMES @ DOORS S100, S101.2, S200, AND S201 REFER TO A2.1, A3.1.1, AND A3.2.1
ALTERNATE #7	CUSTOM WAYFINDING REFER TO A3.0.1
ALTERNATE #8	RECONFIGURE AND UPDATE MENS TOILET ROOM REFER TO A1.1, A2.1, AND A2.3



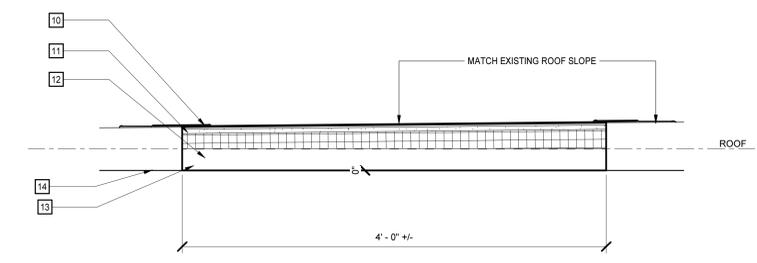
5
 A2.2/A2.2
 1 1/2" = 1'-0"

EXISTING CATWALK DETAIL



4
 A2.2/A2.2
 1 1/2" = 1'-0"

CATWALK DETAIL



3
 A2.2/A2.2
 1 1/2" = 1'-0"

ROOF DETAIL





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KING HALL ALTERNATE SUMMARY

ALTERNATE #1: REPLACE EXISTING WINDOWS AND WINDOW SHADES REFER TO A1.1, A2.1, A3.1.1, AND A3.2.2

ALTERNATE #2: RECOAT FLATROOF REFER TO A2.2

ALTERNATE #3: PROVIDE CARPET PAINT AND BASE IN FIRST FLOOR OFFICES REFER TO A1.1 AND A3.0.1

ALTERNATE #3A: PROVIDE CARPET PAINT AND BASE IN FIRST FLOOR CLASSROOM 104 REFER TO A1.1 AND A3.0.1

ALTERNATE #4: PROVIDE 2 NEW EXTERIOR WINDOWS AND WINDOW SHADES AT ROOM 201A REFER TO A1.1, A2.1, A3.1.1, A3.2.1, AND A4.1

ALTERNATE #5: SCRAPE AND PAINT EXTERIOR TRIM REFER TO A4.1

ALTERNATE #6: REPLACE HOLLOW METAL FRAMES @ DOORS S100, S101.2, S200, AND S201 REFER TO A2.1, A3.1.1, AND A3.2.1

ALTERNATE #7: CUSTOM WAYFINDING REFER TO A3.0.1

ALTERNATE #8: RECONFIGURE AND UPDATE MENS TOILET ROOM REFER TO A1.1, A2.1, AND A2.3

REFLECTED CEILING PLAN LEGEND
 APPLIES TO DRAWING A2.3
 REFER TO M, E & FP DRAWINGS FOR REFLECTED CEILING PLAN SYMBOLS NOT INDICATED BELOW

	SPACE NUMBER
	CEILING HEIGHT, AFF UNO
	INTERIOR APPLICATIONS: GYPSUM BOARD CEILING
	EXTERIOR APPLICATIONS: GYPSUM SOFFIT BOARD OR GYPSUM SHEATHING
	2'-0" x 2'-0" LAY-IN ACOUSTICAL CEILING PANELS IN SUSPENDED GRID
	ACCESS PANEL
	EXTERIOR WALL
	INTERIOR WALL/PARTITION TO UNDERSIDE OF DECK
	INTERIOR WALL/PARTITION TO ATTIC CAP ABOVE REFER TO A5.0.1 FOR ADDITIONAL DETAILING.
	INTERIOR WALL/PARTITION 4' MIN ABOVE HIGHEST ADJACENT CEILING. IF NECESSARY TO ACHIEVE RESULTS DESIRED, EXTEND WALL HEIGHT SO WALL BRACING IS NOT EXPOSED TO VIEW IN FINISHED SPACES
	EXISTING TO REMAIN. VERIFY VERTICAL EXTENTS WHERE THE HEIGHT IMPACTS THE WORK
	SMOKE DETECTOR. REFER TO ELECTRICAL LEGENDS AND DRAWINGS FOR ADDITIONAL INFORMATION
	EXIT SIGN. CEILING MOUNT. DIRECTIONAL ARROWS AS INDICATED. SHADING INDICATES FACE(S) OF SIGN. REFER TO ELECTRICAL LEGENDS AND DRAWINGS FOR ADDITIONAL INFORMATION.

REFLECTED CEILING PLAN/DETAIL GENERAL NOTES

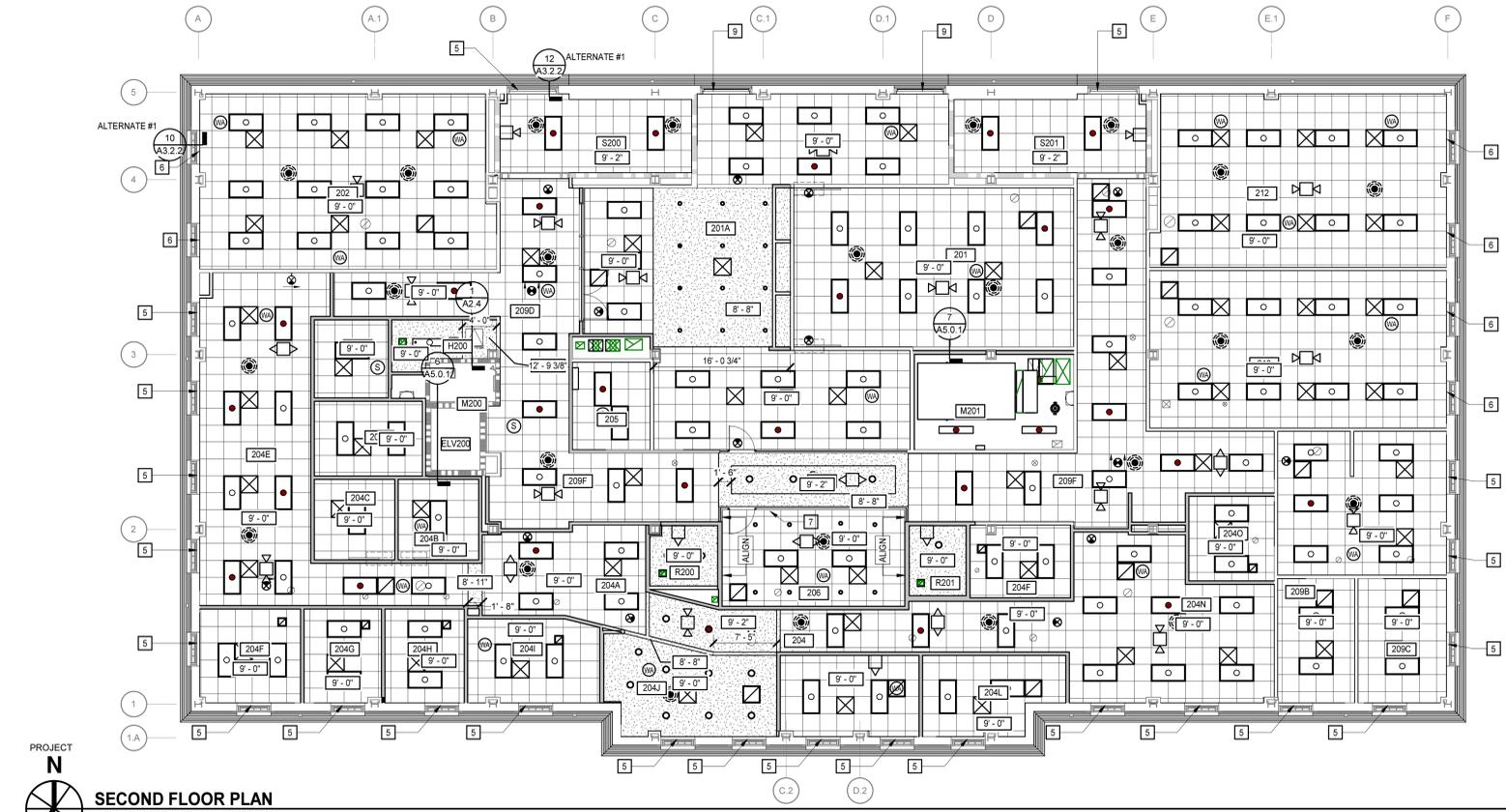
A. ALL CEILING HEIGHTS SHALL BE 9'-0" AFF UNLESS INDICATED OTHERWISE.

B. DRAWINGS INDICATE GRID LAYOUT DIAGRAMMATICALLY. REFER TO SPECIFICATIONS FOR SPECIFIC GRID LAYOUT CRITERIA AT PERIMETER CONDITIONS THAT MAY DIFFER FROM GRID LAYOUT INDICATED ON DRAWINGS.

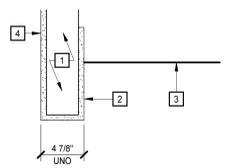
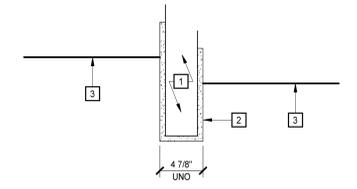
C. CENTER CEILING MOUNTED ITEMS WITHIN CEILING PANELS, UNLESS INDICATED OTHERWISE.

REFLECTED CEILING PLAN KEYNOTES
 REPRESENTED BY [n]
 APPLIES TO DRAWING A2.3

- CFSF-S
- 5/8" GYP BD, TERMINATE 4" ABV FIN CLG
- FIN CLG: FINISH AND/OR HEIGHT AFF VARIES
- GYP BD: EXTEND FULL HEIGHT, UNLESS INDICATED OTHERWISE
- ALTERNATE # 1 PROVIDE INTERIOR MOUNTED LOUVER BLINDS
- ALTERNATE # 1 PROVIDE JAMB MOUNTED BLACK OUT SHADE AND WALL MOUNTED LOUVER BLIND
- WALL MOUNTED LOUVER BLINDS
- ALTERNATE # 4 PROVIDE INTERIOR MOUNTED LOUVER BLINDS



4 ALTERNATE 8 REFLECTED CEILING PLAN
 1/8" = 1'-0"

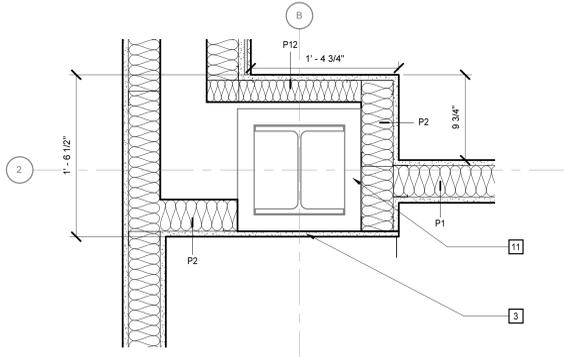


BULKHEAD DETAILS
 NO SCALE

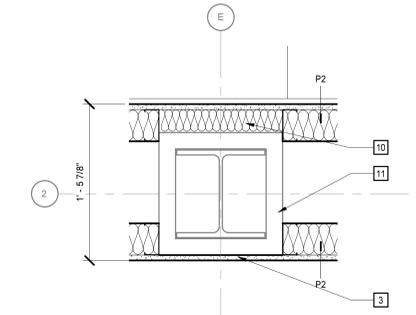


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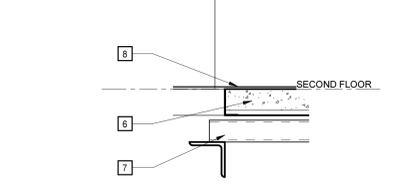
FLOOR PLAN KEYNOTES	
REPRESENTED BY [D]	
APPLIES TO DRAWINGS A2.4	
1	CONTINUOUS SEALANT
2	2'-0" X 2'-0" ACCESS HATCH
3	5/8" GYPSUM BOARD
4	6" CFSF-S
5	6" MINERAL WOOL INSULATION
6	CONCRETE SLAB INFILL, REFER TO FLOOR INFILL SUPPORT DETAIL S1.1 FOR ADDITIONAL INFORMATION
7	STRUCTURAL STEEL, REFER TO FLOOR INFILL SUPPORT DETAIL S1.1 FOR ADDITIONAL INFORMATION
8	FINISH FLOOR AS SCHEDULED
9	CONTINUOUS SEALANT AND BACKER ROD
10	FILL CAVITY WITH SOUND ATTENUATION BLANKETS
11	EXISTING COLUMN WRAP TO REMAIN
12	8" CMU TOOTH IN
13	GFSP-NS



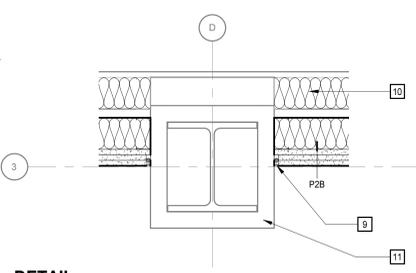
8 PLAN DETAIL
 A2.1/A2.4 1 1/2" = 1'-0"



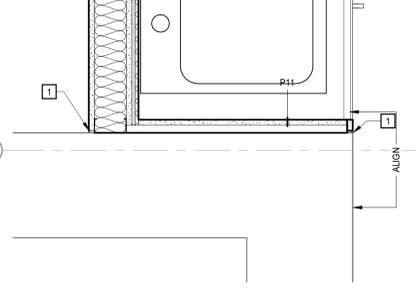
7 PLAN DETAIL
 A2.1/A2.4 1 1/2" = 1'-0"



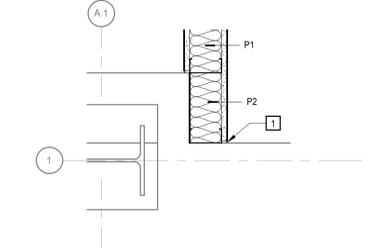
6 SECTION DETAIL
 A2.1/A2.4 1 1/2" = 1'-0"



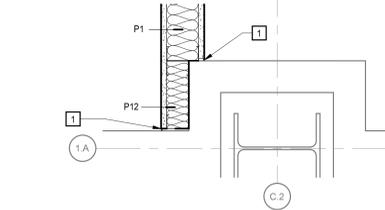
5 DETAIL
 A2.1/A2.4 1 1/2" = 1'-0"



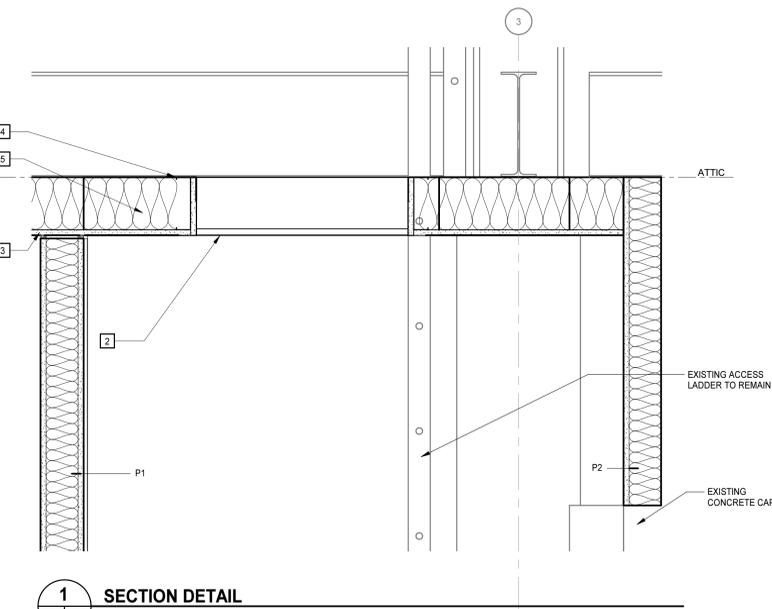
4 PLAN DETAIL
 A2.1/A2.4 1 1/2" = 1'-0"



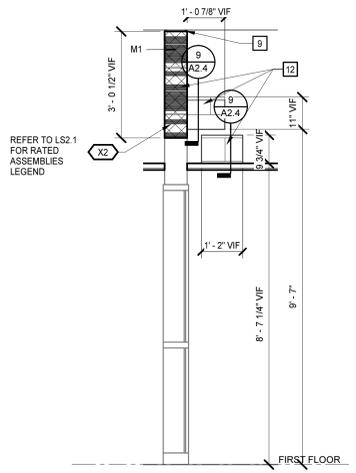
3 PLAN DETAIL
 A2.1/A2.4 1 1/2" = 1'-0"



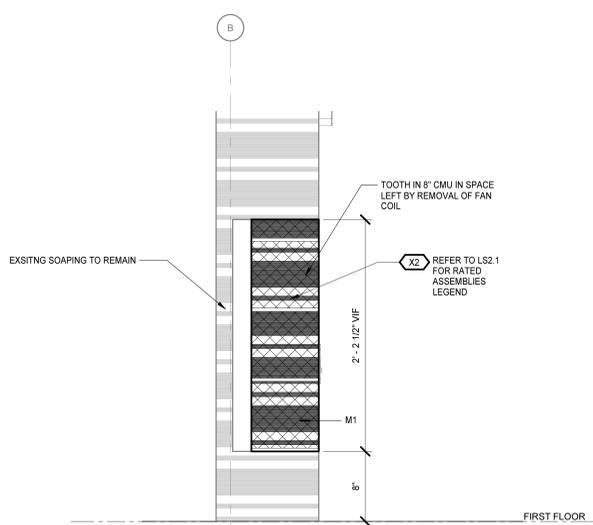
2 PLAN DETAIL
 A2.1/A2.4 1 1/2" = 1'-0"



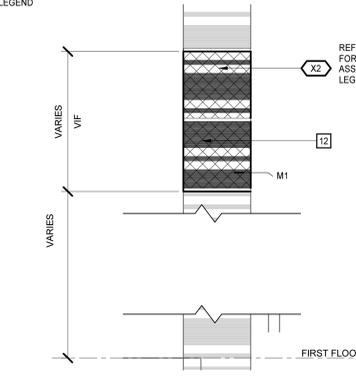
1 SECTION DETAIL
 A2.2/A2.4 1 1/2" = 1'-0"



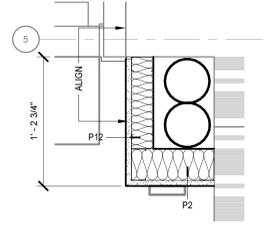
11 DETAIL
 A2.1/A2.4 1/2" = 1'-0"



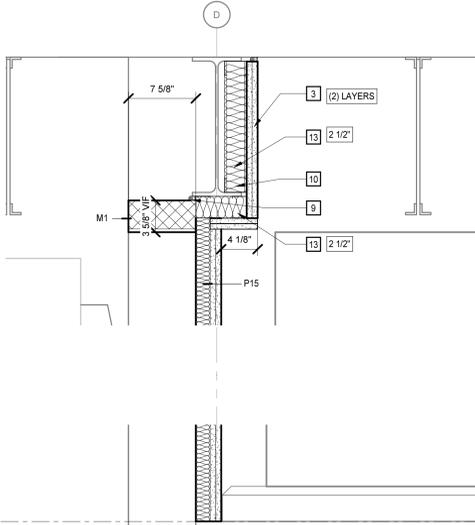
10 DETAIL
 A2.1/A2.4 1 1/2" = 1'-0"



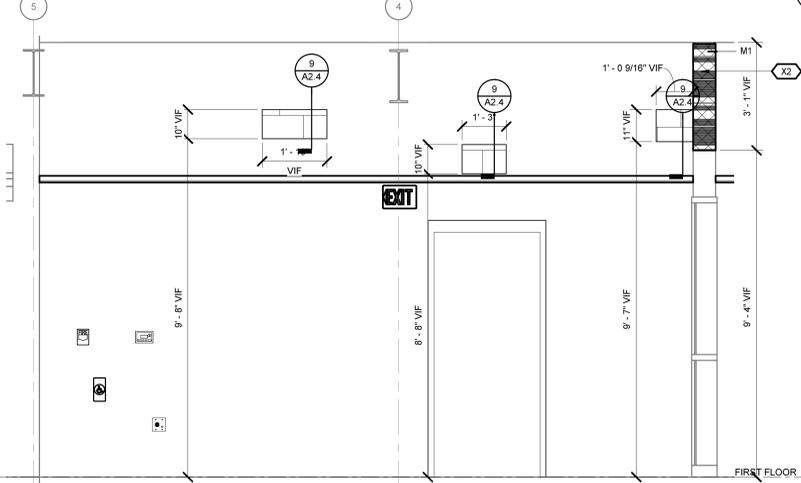
9 DETAIL
 A2.1/A2.4 1 1/2" = 1'-0"



14 DETAIL
 A2.1/A2.4 1 1/2" = 1'-0"



13 DETAIL
 A2.1/A2.4 1 1/2" = 1'-0"



12 DETAIL
 A2.1/A2.4 1/2" = 1'-0"

NOTE: REFER TO 11/A2.4 FOR ADDITIONAL NOTES





PROJECT NO:	620588
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DATE:	DESCRIPTION:

FINISH PLAN KEYNOTES

REPRESENTED BY []
 APPLIES TO DRAWINGS A3.0.1

- ALTERNATE #7 WAYFINDING ACCENT, VWC-B, DIGITAL GRAPHIC PATTERN TO BE SELECTED
- DECORATIVE WINDOW FILM
- METAL TRIM AT EXTERIOR CORNERS OF VWC APPLICATIONS
- ALIGN FLOORING TRANSITION WITH EXTERIOR CORNER
- ALIGN FLOORING TRANSITION WITH CENTER OF WALL
- RB ALONG WALL, MATCH AND ALIGN WITH EXISTING ON ADJACENT WALLS
- PAINT METAL FRAMES TO MATCH WALL
- INTERIOR WALLS: PAINT EXPOSED BRICK PT-1, TYPICAL

FINISH SCHEDULE GENERAL NOTES

- FINISH SCHEDULE DESCRIBES ONLY THE BASIC OR PREDOMINANT SURFACE FINISH.
- PROVIDE SAME FINISHES AS THE ADJACENT SPACE IN ALCOVES AND CONTIGUOUS SPACES WITHOUT DESIGNATED SPACE NUMBERS.
- CASEWORK FINISHES ARE NOT NOTED IN THE FINISH SCHEDULE. REFER TO CASEWORK ELEVATIONS AND SPECIFICATIONS FOR MATERIALS AND FINISHES.
- DIRECTIONAL WALL FINISH INDICATORS (NORTH, EAST, SOUTH, WEST) REFER TO THE "PLAN" NORTH ORIENTATION.
- BULKHEADS AND SOFFITS MAY NOT BE INDICATED IN FINISH SCHEDULES. REFER TO RCP DETAILS, AND OTHER DOCUMENTS FOR EXTENT.
- PROVIDE CONTINUOUS SEALANT BETWEEN INTERIOR SLAB-ON-GRADE AND VERTICAL ELEMENT WHERE JOINT IS NOT CONCEALED BY FINISH BASE OR OTHER CONSTRUCTION.
- REFER TO SPECIFICATIONS FOR INFORMATION ON FINISH FIRE CLASSIFICATION RATING.

FINISH PLAN LEGEND

WVC	WALL FINISH EXTENTS	LVT-A	FLOOR FINISH TRANSITION, CHANGE OF MATERIAL
C-TILE-A		LVT-B	
C-TILE-B		P-TILE	
C-TILE-C			
CONC-SLR			
EX			

*UNO. HATCHES DO NOT INDICATE FLOOR INSTALLATION PATTERN METHOD OR DIRECTION. HATCHES INDICATE START AND STOP OF FINISHES ONLY.

FINISH PLAN GENERAL NOTES

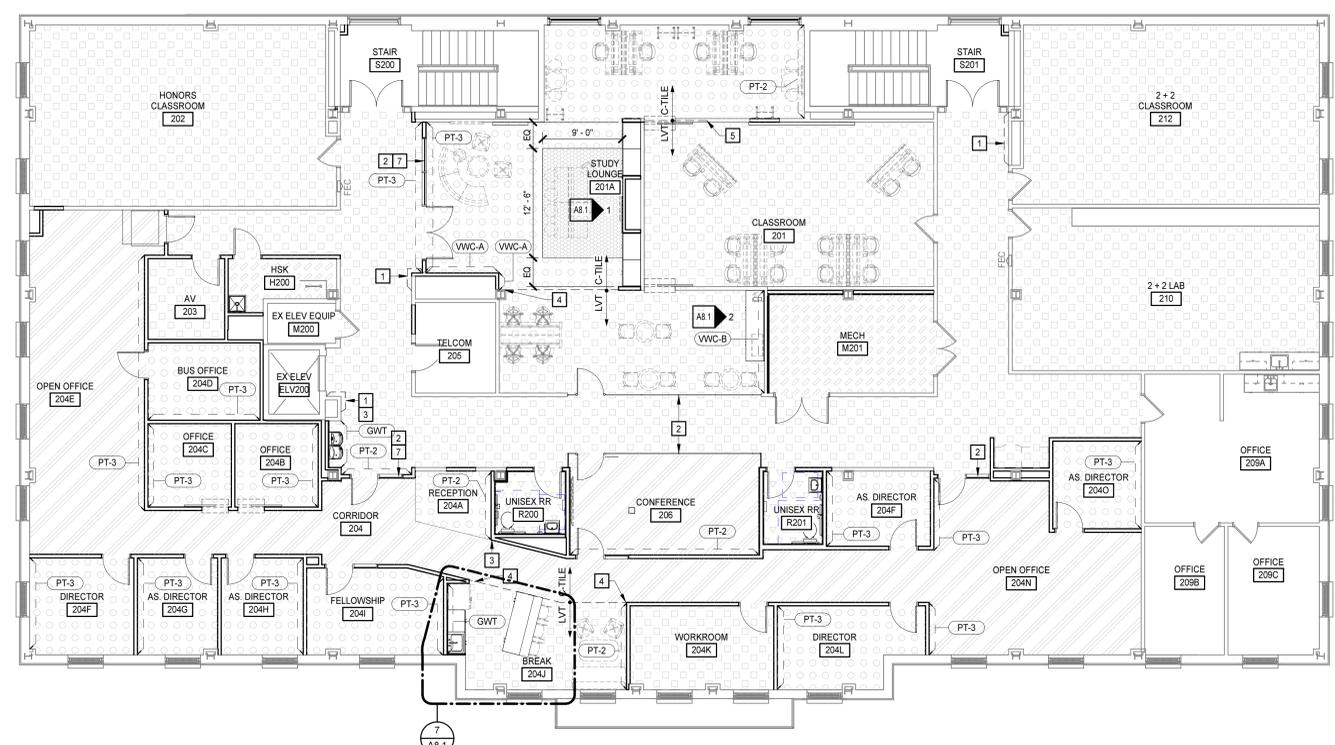
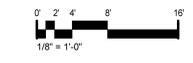
- REFER TO A0.1 FOR ABBREVIATION LEGEND.
- WHERE ONE FINISH IS LISTED ON ALL WALLS OF THE ROOM, THE FINISH PLANS DO NOT SHOW EXTENT OF FINISH. FINISH PLANS AND ELEVATIONS SHOW EXTENT OF MATERIALS WHERE FINISH SCHEDULE LISTS MULTIPLE FINISHES IN ONE ROOM.
- WHERE DIFFERENT FLOORING MATERIALS TRANSITION WITHIN AN OPENING, THE TRANSITION SHALL OCCUR AT THE CENTER OF THE OPENING. UNO. FOR OPENINGS THAT INCLUDE A DOOR, THE TRANSITION SHALL ALIGN UNDER THE DOOR.
- REFER TO ACCENT FINISH PLAN FOR LOCATION OF ACCENT PAINT COLORS.
- FURNITURE AND APPLIANCES INDICATED WITH A DASHED LINE ARE BY OWNER SUPPLY AND INSTALL.

FINISH SCHEDULE

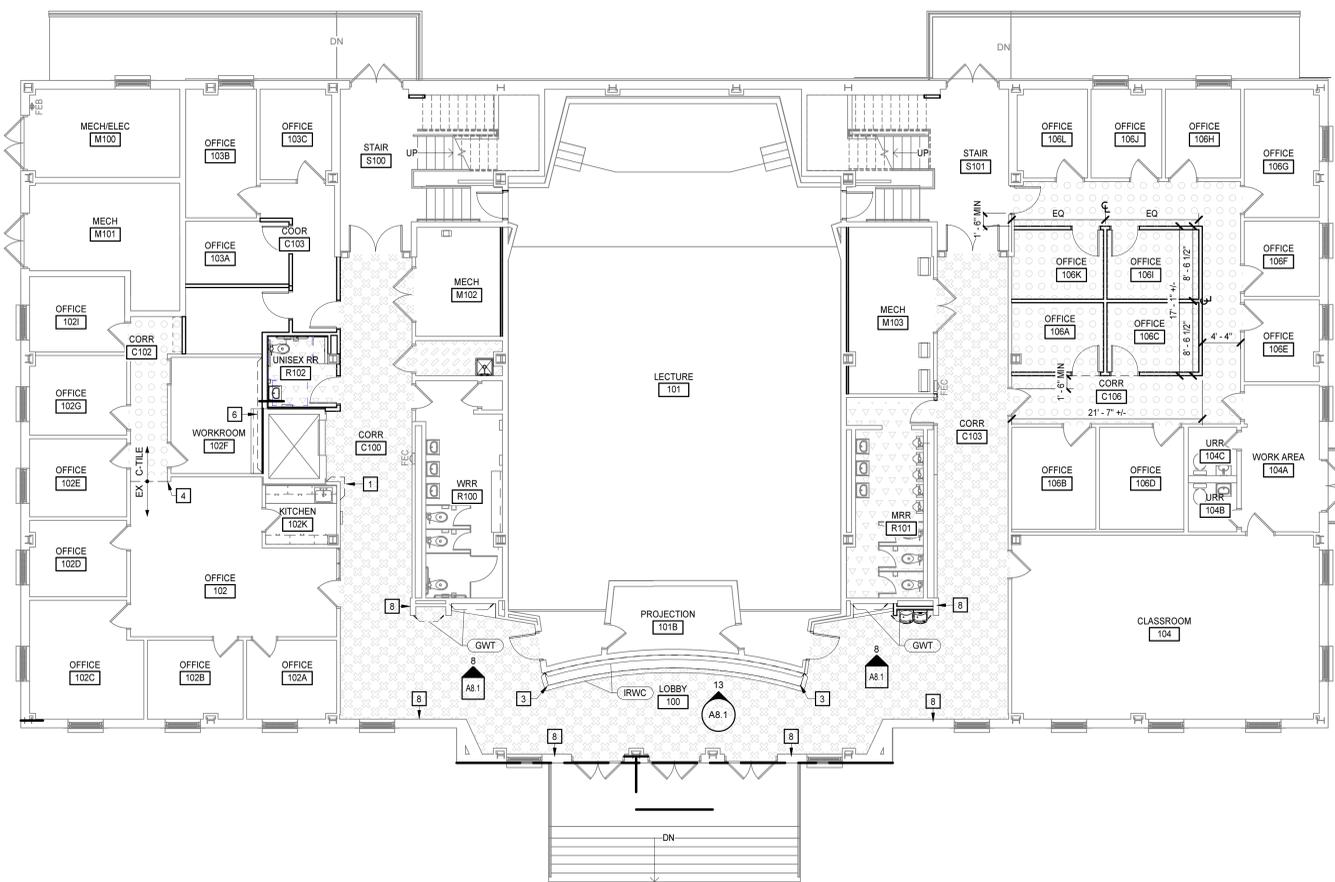
NUMBER	NAME	FLOOR	BASE	WALLS				WAINSCOT	CEILING	NOTES
				NORTH	EAST	SOUTH	WEST			
102H	WORKROOM	EX	EX / RB	PT-1	PT-1	PT-1	PT-1	..	ACP	1
101	LOBBY	LVT-A	RB	VARIES	PT-1	PT-1	PT-1	..	VARIES	
101.1	LECTURE	EX	EX	EX	EX	EX	EX	..	VARIES	
101B	STAGE	EX	EX	EX	EX	EX	EX	..	VARIES	
101B	PROJECTION	EX	EX	EX	EX	EX	EX	..	ACP	
102	OFFICE	EX	EX	EX	EX	EX	EX	..	ACP	2
102A	OFFICE	EX	EX	EX	EX	EX	EX	..	ACP	2
102B	OFFICE	EX	EX	EX	EX	EX	EX	..	ACP	2
102C	OFFICE	EX	EX	EX	EX	EX	EX	..	ACP	2
102D	OFFICE	EX	EX	EX	EX	EX	EX	..	ACP	2
102E	OFFICE	EX	EX	EX	EX	EX	EX	..	ACP	2
102F	WORKROOM	EX	EX / RB	PT	PT	PT	PT	..	ACP	2
102G	OFFICE	EX	EX	EX	EX	EX	EX	..	ACP	2
102I	OFFICE	EX	EX	EX	EX	EX	EX	..	ACP	2
102K	KITCHEN	EX	EX	EX	EX	EX	EX	..	ACP	2
103A	OFFICE	EX	RB	PT-1	PT-1	PT-1	PT-1	..	ACP	3
103B	OFFICE	EX	EX	EX	EX	EX	EX	..	ACP	2
103C	OFFICE	EX	EX	EX	EX	EX	EX	..	ACP	2
103D	OFFICE	EX	EX	EX	EX	EX	EX	..	ACP	2
104	CLASSROOM	EX	EX	EX	EX	EX	EX	..	ACP	4
104A	WORK AREA	EX	EX	EX	EX	EX	EX	..	ACP	
104B	URR	EX	EX	EX	EX	EX	EX	..	GB PT	
104C	URR	EX	EX	EX	EX	EX	EX	..	GB PT	
106A	OFFICE	C-TILE-A	RB	PT-1	PT-1	PT-1	PT-1	..	ACP	
106B	OFFICE	EX	EX	EX	EX	EX	EX	..	ACP	2
106C	OFFICE	C-TILE-A	RB	PT-1	PT-1	PT-1	PT-1	..	ACP	
106D	OFFICE	EX	EX	EX	EX	EX	EX	..	ACP	2
106E	OFFICE	EX	EX	EX	EX	EX	EX	..	ACP	2
106F	OFFICE	EX	EX	EX	EX	EX	EX	..	ACP	2
106G	OFFICE	EX	EX	EX	EX	EX	EX	..	ACP	2
106H	OFFICE	EX	EX	EX	EX	EX	EX	..	ACP	2
106I	OFFICE	C-TILE-A	RB	PT-1	PT-1	PT-1	PT-1	..	ACP	
106J	OFFICE	EX	EX	EX	EX	EX	EX	..	ACP	2
106K	OFFICE	C-TILE-A	RB	PT-1	PT-1	PT-1	PT-1	..	ACP	
106L	OFFICE	EX	EX	EX	EX	EX	EX	..	ACP	2
C100	CORR	LVT-A	RB	PT-1	PT-1	PT-1	PT-1	..	ACP	
C102	CORR	C-TILE-A	RB	PT-1	PT-1	PT-1	PT-1	..	ACP	
C103	COOR	EX	RB	PT-1	PT-1	PT-1	PT-1	..	ACP	3
C103	CORR	LVT-A	RB	PT-1	PT-1	PT-1	PT-1	..	ACP	
C106	CORR	C-TILE-A	RB	PT-1	PT-1	PT-1	PT-1	..	ACP	
M100	MECHELEC	CONC-SLR	RB	PT-1	PT-1	PT-1	PT-1	..	EX	
M101	MECH	EX	EX	EX	EX	EX	EX	..	EX	
M102	MECH	EX	EX	EX	EX	EX	EX	..	ACP	
M103	MECH	EX	EX	EX	EX	EX	EX	..	ACP	
R100	WRR	EX	EX	EX	EX	EX	EX	..	GB PT	
R101	MRR	P-TILE	GWT	GWT	GWT	GWT	GWT	..	GB PT	
R102	UNISEX RR	P-TILE	GWT	GWT	GWT	GWT	GWT	..	GB PT	
S100	STAIR	EX	EX	PT-1	PT-1	PT-1	PT-1	..	ACP	
S101	STAIR	EX	EX	PT-1	PT-1	PT-1	PT-1	..	ACP	
200A	CORRIDOR	LVT-B	RB	PT-1	PT-1	PT-1	PT-1	..	VARIES	
201	CLASSROOM	LVT-B	RB	PT-1	PT-1	PT-1	PT-1	..	ACP	
201A	STUDY LOUNGE	VARIES	RB	PT-1	PT-1	PT-1	PT-1	..	VARIES	
202	HONORS CLASSROOM	LVT-B	RB	PT-1	PT-1	PT-1	PT-1	..	ACP	
203	AV	LVT-B	RB	PT-1	PT-1	PT-1	PT-1	..	ACP	
204	CORRIDOR	C-TILE-B	RB	PT-1	PT-1	PT-1	PT-1	..	ACP	
204A	RECEPTION	C-TILE-A	RB	PT-1	PT-1	PT-1	PT-1	..	ACP	
204B	OFFICE	C-TILE-A	RB	PT-1	PT-1	PT-1	PT-1	..	ACP	
204C	OFFICE	C-TILE-A	RB	PT-1	PT-1	PT-1	PT-1	..	ACP	
204D	BUS OFFICE	C-TILE-A	RB	PT-1	PT-1	PT-1	PT-1	..	ACP	
204E	OPEN OFFICE	C-TILE-B	RB	PT-1	PT-1	PT-1	PT-1	..	ACP	
204F	AS DIRECTOR	C-TILE-A	RB	PT-1	PT-1	PT-1	PT-1	..	ACP	
204G	DIRECTOR	C-TILE-A	RB	PT-1	PT-1	PT-1	PT-1	..	ACP	
204H	AS DIRECTOR	C-TILE-A	RB	PT-1	PT-1	PT-1	PT-1	..	ACP	
204I	AS DIRECTOR	C-TILE-A	RB	PT-1	PT-1	PT-1	PT-1	..	ACP	
204J	FELLOWSHIP	C-TILE-A	RB	PT-1	PT-1	PT-1	PT-1	..	ACP	
204K	BREAK	LVT-B	RB	PT-1	PT-1	PT-1	PT-1	..	GB PT	
204L	WORKROOM	LVT-B	RB	PT-1	PT-1	PT-1	PT-1	..	ACP	
204M	DIRECTOR	C-TILE-A	RB	PT-1	PT-1	PT-1	PT-1	..	ACP	
204N	OPEN OFFICE	C-TILE-B	RB	PT-1	PT-1	PT-1	PT-1	..	ACP	
204O	AS DIRECTOR	C-TILE-A	RB	PT-1	PT-1	PT-1	PT-1	..	ACP	
205	TELCOM	EX	RB	PT-1	PT-1	PT-1	PT-1	..	ACP	
206	CONFERENCE	C-TILE-B	RB	PT-1	PT-1	PT-1	PT-1	..	ACP	
209A	OFFICE	EX	EX	EX	EX	EX	EX	..	ACP	
209B	OFFICE	EX	EX	EX	EX	EX	EX	..	ACP	
209C	OFFICE	EX	EX	EX	EX	EX	EX	..	ACP	
209D	CORRIDOR	LVT-B	RB	PT-1	PT-1	PT-1	PT-1	..	VARIES	
209E	CORRIDOR	LVT-B	RB	PT-1	PT-1	PT-1	PT-1	..	VARIES	
209F	CORRIDOR	LVT-B	RB	PT-1	PT-1	PT-1	PT-1	..	VARIES	
210	2 + 2 LAB	LVT-B	RB	PT-1	PT-1	PT-1	PT-1	..	ACP	
212	2 + 2 CLASSROOM	LVT-B	RB	PT-1	PT-1	PT-1	PT-1	..	ACP	
H200	EX ELEV	EX	EX	EX	EX	EX	EX	..	EX	
M200	EX ELEV EQUIP	CONC-SLR	RB	PT	PT	PT	PT	..	GB PT	
M201	MECH	CONC-SLR	RB	PT-1	PT-1	PT-1	PT-1	..	EX	
R200	UNISEX RR	P-TILE	CT	GWT	GWT	GWT	GWT	..	GB PT	

FINISH SCHEDULE NOTES

- REFER TO ACCENT FINISH PLAN FOR EXTENTS OF RB.
- ALTERNATE #3
- NEW CARPET AS PART OF ALTERNATE #3
- ALTERNATE #4
- PAINT NORTH WALL WHERE CMU IS PATCHED



PROJECT N
SECOND FLOOR - ACCENT FINISH PLAN
 1/8" = 1'-0"
POLAR



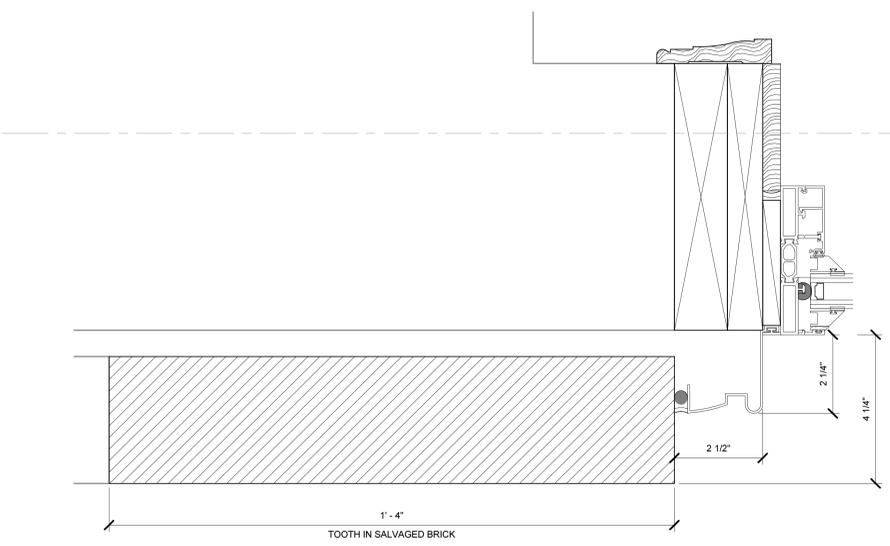
PROJECT N
FIRST FLOOR - ACCENT FINISH PLAN
 1/8" = 1'-0"
POLAR

DOOR AND FRAME DETAIL KEYNOTES
 REPRESENTED BY []
 APPLIES TO DRAWINGS A3.2.1 - A3.2.n

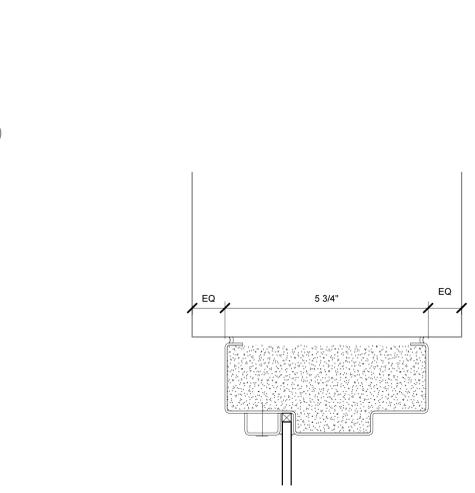
- ANCHORAGES, REINFORCING, SPECIFIC PARTITION CONSTRUCTION AND/OR LINTELS ARE NOT SHOWN FOR CLARITY.
- REFER TO FRAME SECTION IN DOOR SCHEDULE FOR TYPE.
- SEALANT, ALL SIDES - TOOL TO 90°.
- BACKEND RETURN @ GB LOCATIONS ONLY.
- 9/16" @ MAS. 1/2" @ GB.
- 1/4" @ JAMBS, UNO, DIMENSION @ HEAD & SILL VARIES.
- BULLNOSE @ CMU JAMBS & SILLS.
- 0" @ GB LOCATIONS, 1/16" @ MAS LOCATIONS.
- GROUT SOLID.
- 5/8" GYPSUM BOARD.
- PARTITION AS SCHEDULED REFER TO PLAN.
- FINISH FLOOR, TYPE VARIES REFER TO FINISH SCHEDULE AND PLANS.
- EXISTING CMU WALL.
- LOUVER BLIND.
- ROLLER BLINDS REFER TO A2.3 RCP PLANS FOR LOCATIONS.
- LOUVER BLIND LOCATION VARIES.
- ALUMINUM WINDOW.
- CUSTOM ALUMINUM SILL EXTENSION.
- CONTINUOUS SEALANT.
- WOOD SILL.
- WOOD TRIM.
- FACE BRICK SILL, COLOR AND PROFILE TO MATCH EXISTING.
- WOOD BLOCKING.
- METAL FLASHING.
- CUSTOM ALUMINUM TRIM.
- STEEL LINTEL, REFER TO STRUCTURAL DRAWINGS.
- CONTINUOUS SEALANT AND BACKER ROD.
- NOTCH EXISTING CMU TO ACCOMMODATE LINTEL.
- WEEP.
- NOTCH BRICK.
- REMOVE AND PATCH GYPSUM AS REQUIRED TO FINISH OPENING AND INSTALL DOOR HARDWARE.
- ALTERNATE # 6: REMOVE DOOR FRAME REFER TO ALTERNATE 6 DEMOLITION PLAN A1.1 FOR ADDITIONAL INFORMATION.
- WOOD BLOCKING AS REQUIRED TO MOUNT DOOR TRACK.
- C/S/S AS.
- EXISTING MASONRY WALL.
- BARN DOOR TRACK.
- EXISTING BRICK SILL TO REMAIN.
- EXISTING LINTEL TO REMAIN.
- EXISTING FLASHING TO REMAIN.
- METAL FLASHING.
- PEEL AND STICK AIR BARRIER TRANSITION MEMBRANE.
- CONTINUOUS TERMINATION BAR AND SEALANT.

GENERAL NOTES

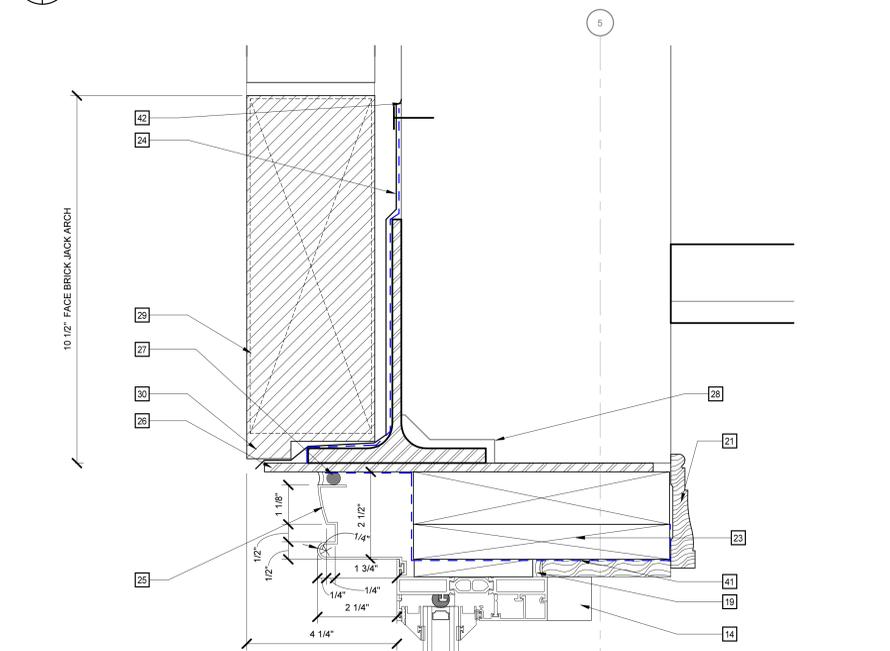
- UNLESS INDICATED OTHERWISE, ALL DETAIL NUMBERS IN THE DOOR AND FRAME SCHEDULE FOR HEAD, JAMB AND SILL CONDITIONS REFER TO DRAWINGS A3.2.1 - A3.2.n.
- DOOR AND FRAME DETAILS INDICATE GENERAL CHARACTERISTICS OF DOOR AND FRAME SIZES AND COMPONENTS AND MAY NOT INDICATE EXACT FIELD CONDITIONS OR REQUIREMENTS. COORDINATE DETAILS WITH OTHER DRAWINGS AND SPECS TO DETERMINE ALL COMPONENTS (E.G. SEALANTS, ANCHORS, HARDWARE, LINTELS, CLIPS) REQUIRED FOR COMPLETE AND FUNCTIONAL INSTALLATION.
- DOOR SWINGS ON FLOOR PLANS TAKE PRECEDENCE OVER SWINGS INDICATED ELSEWHERE (E.G. ELEVATIONS).



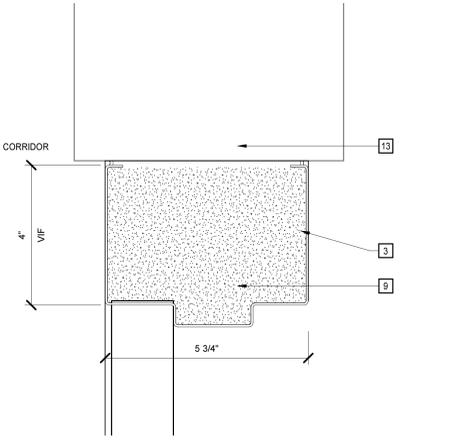
9 ALTERNATE #4 JAMB
 A3.1.1 | A3.2.1 | 6" = 1'-0"



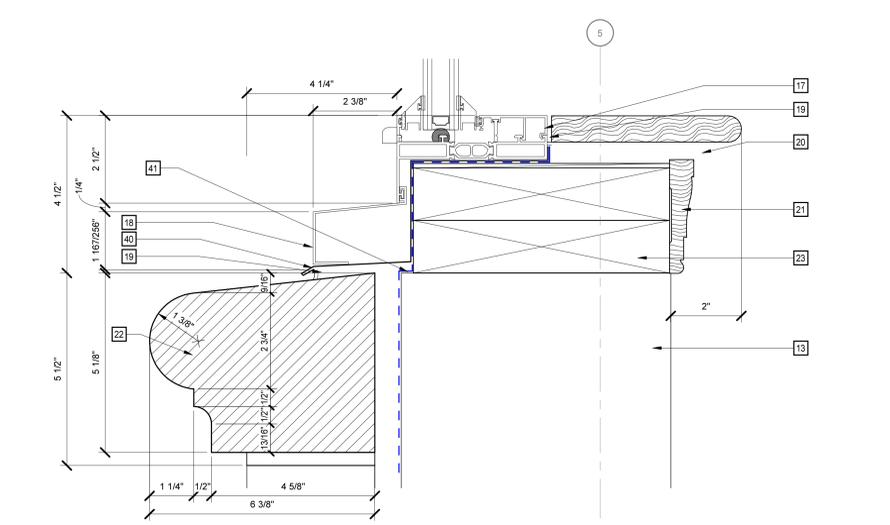
6 HEAD/JAMB DETAIL ALTERNATE #6
 A3.1.1 | A3.2.1 | 6" = 1'-0"



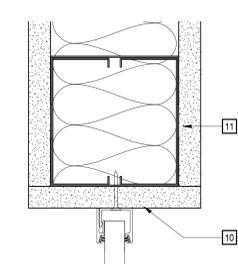
8 ALTERNATE #4 HEAD DETAIL
 A3.1.1 | A3.2.1 | 6" = 1'-0"



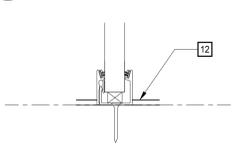
5 HEAD/JAMB DETAIL
 A3.1.1 | A3.2.1 | 6" = 1'-0"



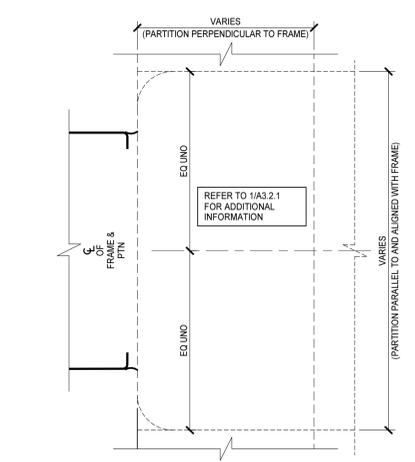
7 ALTERNATE #4 SILL
 A3.1.1 | A3.2.1 | 6" = 1'-0"



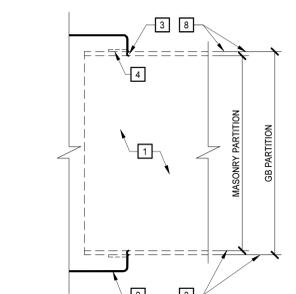
4 HEAD/JAMB DETAIL
 A3.1.1 | A3.2.1 | 6" = 1'-0"



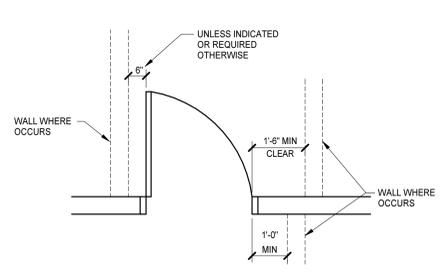
3 SILL DETAIL
 A3.1.1 | A3.2.1 | 6" = 1'-0"



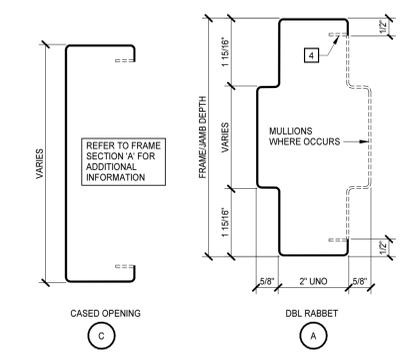
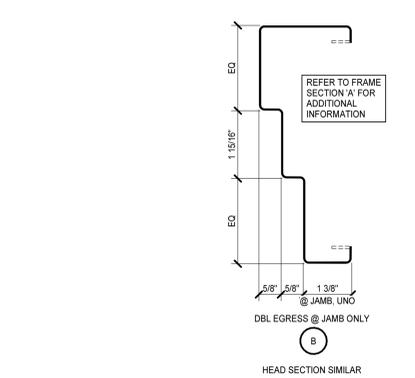
2 INTERIOR BETWEEN THE JAMB - BUTTED HEAD/JAMB/SILL
 A3.2.1 | 6" = 1'-0"



1 INTERIOR WRAP HEAD/JAMB/SILL
 A3.2.1 | 6" = 1'-0"

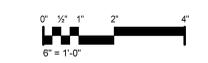


MANEUVERING CLEARANCE AT DOORS



STEEL FRAME SECTIONS

1. ALL FRAME/JAMB DEPTHS, OTHER THAN WRAP CONDITIONS, SHALL BE 5 3/4" UNO.
 2. ALL FRAME/JAMB DEPTHS AT WRAP CONDITIONS SHALL BE SIZED TO SUIT PARTITION.
 3. DOORS, PANELS, GLAZING, STOPS, AND OTHER FRAME INFILLS ARE NOT SHOWN IN FRAME SECTIONS AS THEY VARY - PROVIDE SAME WHERE INDICATED.

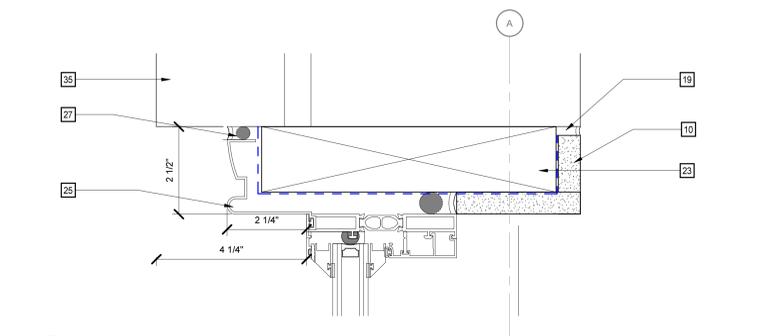




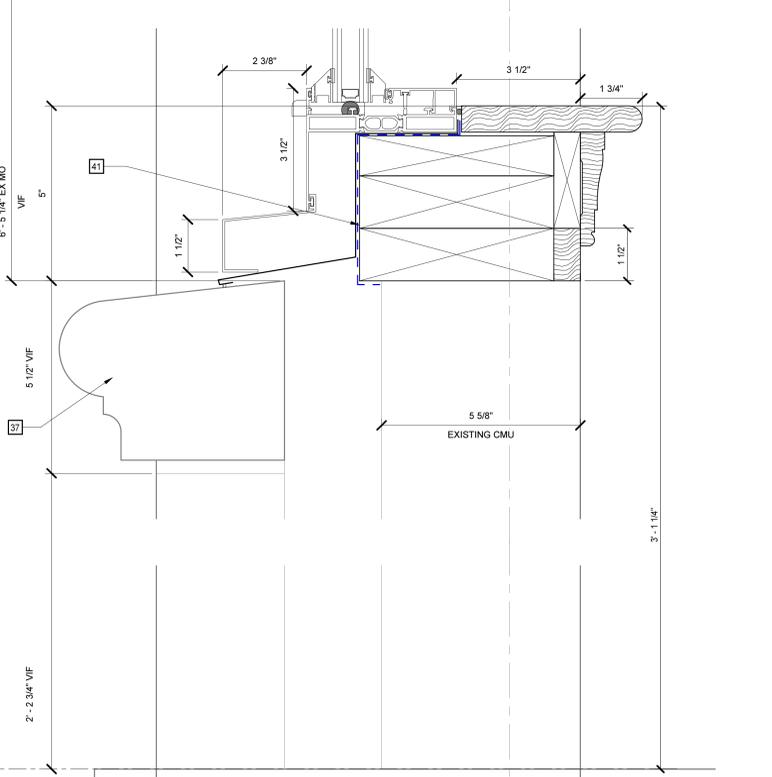
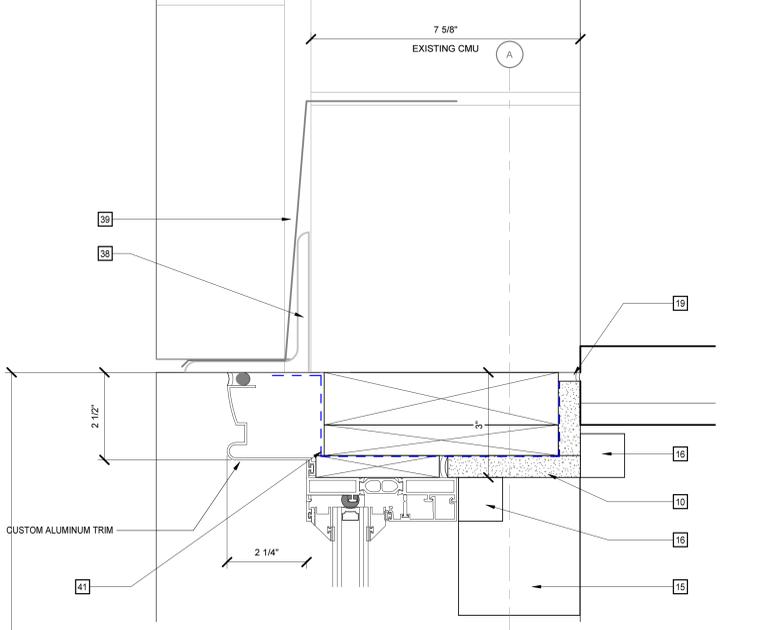
PROJECT NO:	620589
DATE:	FEBRUARY 10, 2023
REVISIONS	
DATE	DESCRIPTION

DOOR AND FRAME DETAIL KEYNOTES
REPRESENTED BY []
APPLIES TO DRAWINGS A3.2.1 - A3.2.n

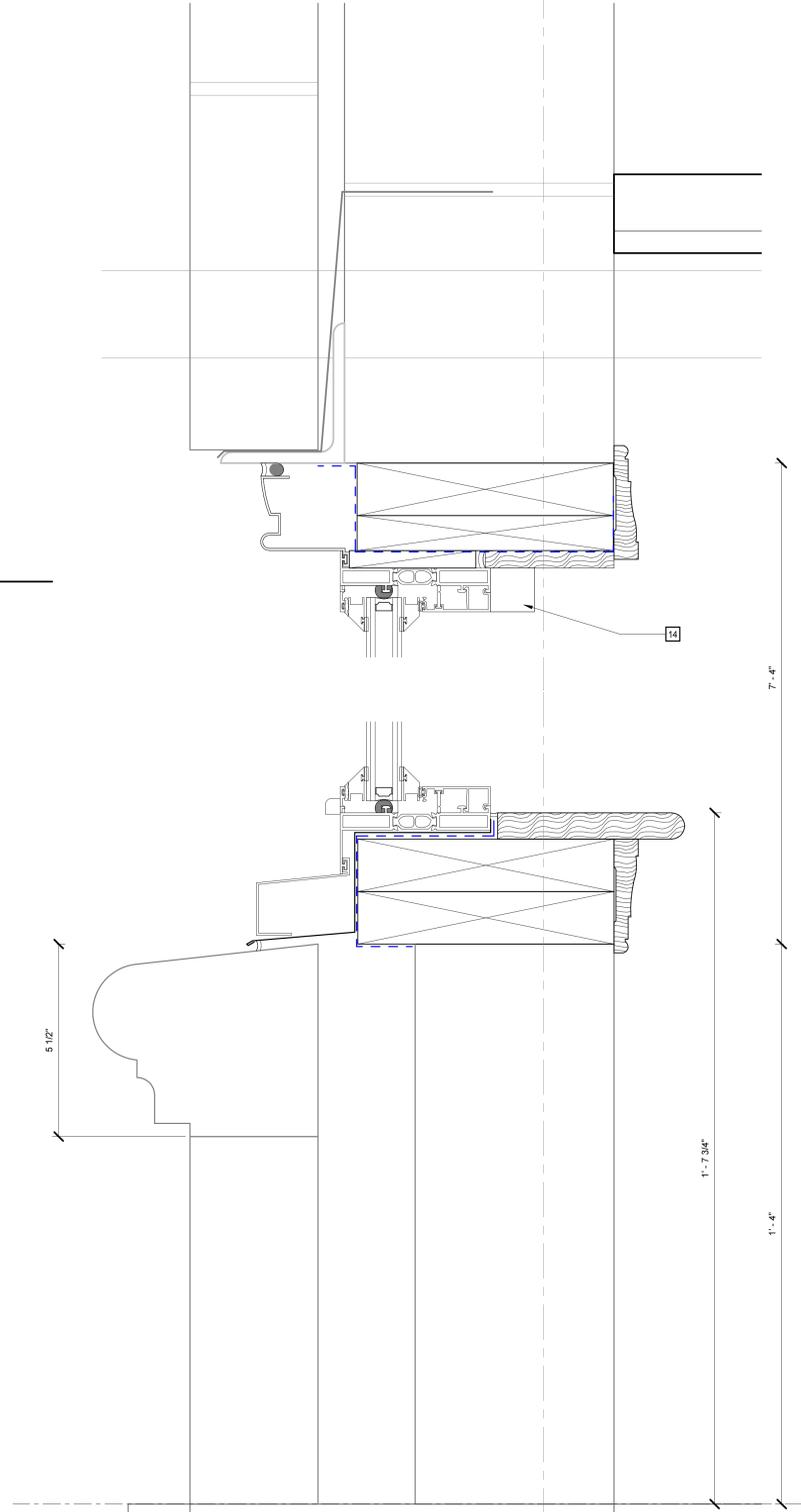
- ANCHORAGES, REINFORCING, SPECIFIC PARTITION CONSTRUCTION AND/OR LINTELS ARE NOT SHOWN FOR CLARITY.
- REFER TO FRAME SECTION IN DOOR SCHEDULE FOR TYPE.
- SEALANT, ALL SIDES - TOOL TO 90°.
- BACKBEND RETURN @ GB LOCATIONS ONLY.
- 9/16" @ MAS. 1/2" @ GB.
- 1/4" @ JAMBS, UNO, DIMENSION @ HEAD & SILL VARIES.
- BULLNOSE @ CMU JAMBS & SILLS.
- 0" @ GB LOCATIONS, 1/16" @ MAS LOCATIONS.
- GROUT SOLID.
- 5/8" GYPSUM BOARD.
- PARTITION AS SCHEDULED REFER TO PLAN.
- FINISH FLOOR, TYPE VARIES REFER TO FINISH SCHEDULE AND PLANS.
- EXISTING CMU WALL.
- LOUVER BLIND.
- ROLLER BLINDS REFER TO A2.3 RCP PLANS FOR LOCATIONS.
- LOUVER BLIND LOCATION VARIES.
- ALUMINUM WINDOW.
- CUSTOM ALUMINUM SILL EXTENSION.
- CONTINUOUS SEALANT.
- WOOD SILL.
- WOOD TRIM.
- FACE BRICK SILL, COLOR AND PROFILE TO MATCH EXISTING.
- WOOD BLOCKING.
- METAL FLASHING.
- CUSTOM ALUMINUM TRIM.
- STEEL LINTEL, REFER TO STRUCTURAL DRAWINGS.
- CONTINUOUS SEALANT AND BACKER ROD.
- NOTCH EXISTING CMU TO ACCOMMODATE LINTEL.
- WEEP.
- NOTCH BRICK.
- REMOVE AND PATCH GYPSUM AS REQUIRED TO FINISH OPENING AND INSTALL DOOR HARDWARE.
- ALTERNATE # 6: REMOVE DOOR FRAME REFER TO ALTERNATE 6 DEMOLITION PLAN A1.1 FOR ADDITIONAL INFORMATION.
- WOOD BLOCKING AS REQUIRED TO MOUNT DOOR TRACK.
- CFSRS.
- EXISTING MASONRY WALL.
- BARN DOOR TRACK.
- EXISTING BRICK SILL TO REMAIN.
- EXISTING LINTEL TO REMAIN.
- EXISTING FLASHING TO REMAIN.
- METAL FLASHING.
- PEEL AND STICK AIR BARRIER TRANSITION MEMBRANE.
- CONTINUOUS TERMINATION BAR AND SEALANT.



11 ALT #1 JAMB
A3.1.1 A3.2.2 6" = 1'-0"



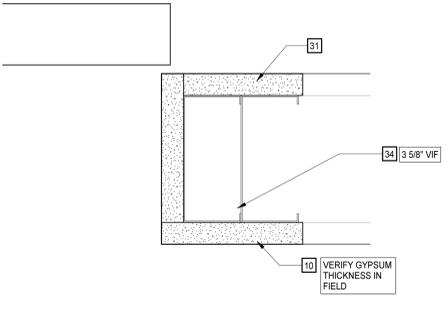
10 ALTERNATE # 1 AW 2 HEAD AND SILL
A2.1 A3.2.2 6" = 1'-0"



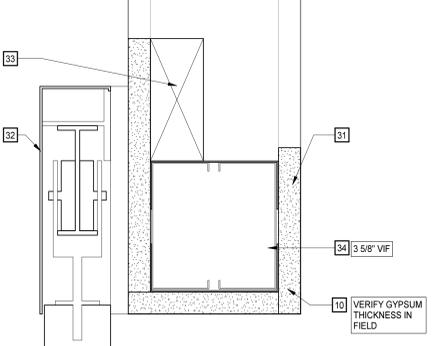
12 ALTERNATE # 1 AW 1 HEAD AND SILL
A2.1 A3.2.2 6" = 1'-0"

NOTE: REFER TO 10 AND 7/A3.2.1 FOR ADDITIONAL NOTES

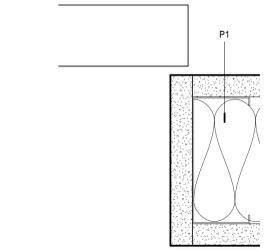
NOTE: REFER TO 7/A3.2.1 FOR ADDITIONAL NOTES



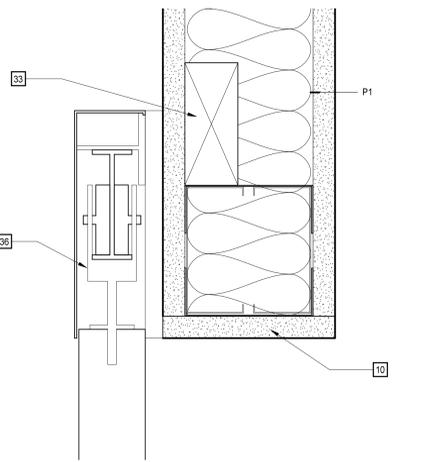
16 JAMB DETAIL
A3.1.1 A3.2.2 6" = 1'-0"



15 HEAD DETAIL
A5.0.1 A3.2.2 6" = 1'-0"



14 JAMB DETAIL
A3.1.1 A3.2.2 6" = 1'-0"

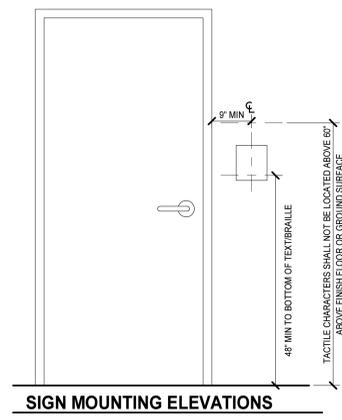


13 HEAD DETAIL
A2.1 A3.2.2 6" = 1'-0"



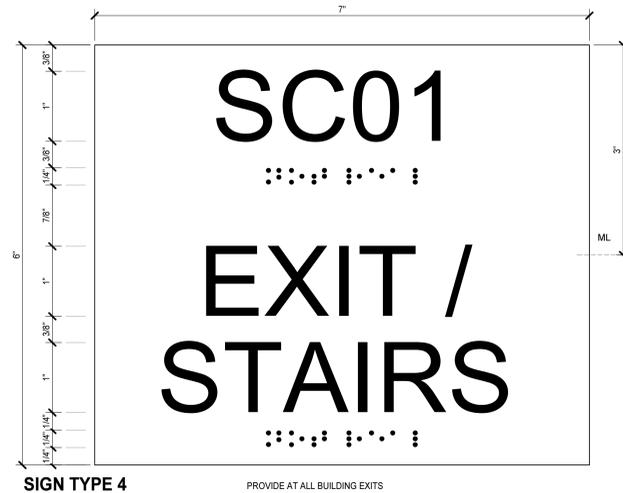
J
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D
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A

1 2 3 4 5 6 7 8 9 10



SIGN MOUNTING ELEVATIONS

- GENERAL NOTES**
- A. ALL INTERIOR SIGNAGE TO BE MANUFACTURED BY PHOTOMECHANICAL ETCHING PROCESS, LEAVING COPY AND BRAILLE RAISED. PLAQUE TO BE LAMINATED TO 1/8" OPAQUE ACRYLIC BASE CUT TO SIZE AND FINISHED WITH ACRYLIC POLYURETHANE ENAMEL. COLOR TBD BY OWNER.
 - B. SIGNS ARE UNFRAMED WITH SQUARE CORNERS
 - C. BRAILLE AND TEXT TO BE RAISED 1/32"
 - D. ROOM NUMBERS TO BE 1" HIGH
 - E. TEXT TO BE 5/8" HIGH ON ALL SIGNS. UNO
 - F. LETTER STYLE: STANDARD BOLD CONDENSED - ALL UPPER CASE LETTERS
 - G. FINISHED SIGNS TO BE 1/4" THICK
 - H. EDGE TREATMENT: BEVELED
 - I. PROVIDE COLOR MATCHING BLANK FOR BACK SIDE OF ALL SIGNS MOUNTED ON GLASS
 - J. SUPPLY AND INSTALL GRAPHIC INSERTS, WHERE REQUIRED
 - K. MOUNT ALL SIGNS TO COMPLY WITH ADA REQUIREMENTS
 - L. ATTACHMENT METHOD: PER MANUFACTURER RECOMMENDATIONS
 - M. REFER TO DOOR SCHEDULE FOR SIGN TYPE LOCATIONS
 - N. PROVIDE 12" X 12" FRAMED ACRYLIC SIGN HOLDER TO ACCEPT INSERT
 - O. ALL SIGNAGE REQUIREMENTS SHALL COMPLY WITH SECTION 703 OF ICC A117.1-2009



SIGN TYPE 4 PROVIDE AT ALL BUILDING EXITS



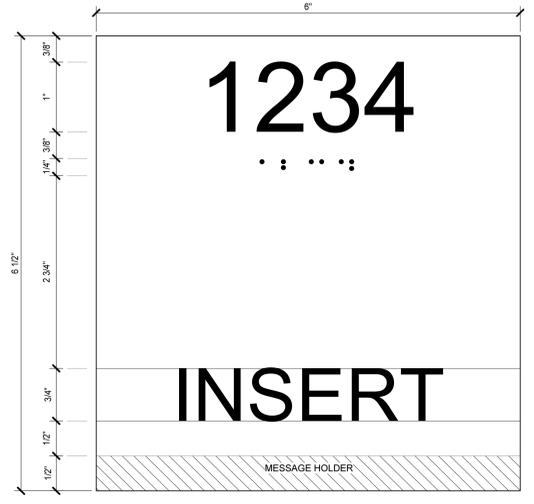
SIGN TYPE 2



SIGN TYPE 5 PROVIDE AT ELEVATOR LANDINGS



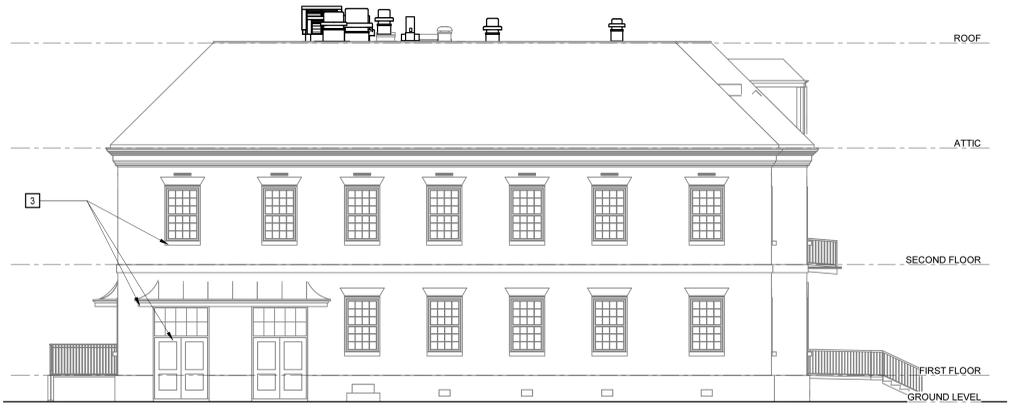
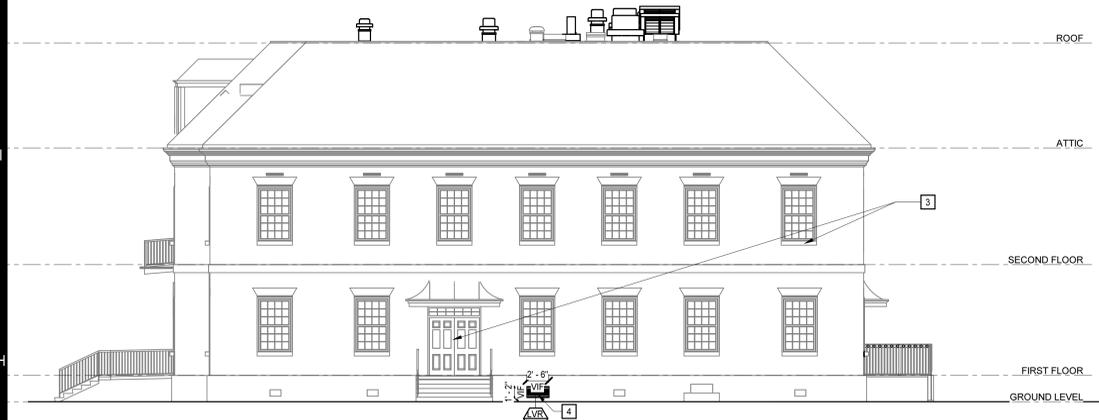
SIGN TYPE 3



SIGN TYPE 1



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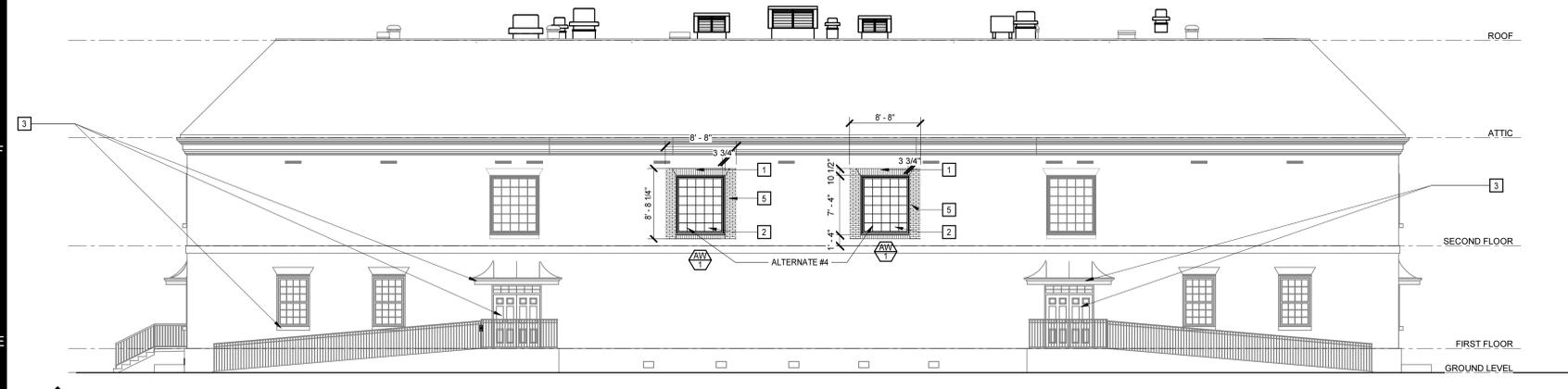


1 EAST ELEVATION
A2.1 | A4.1
1/8" = 1'-0"

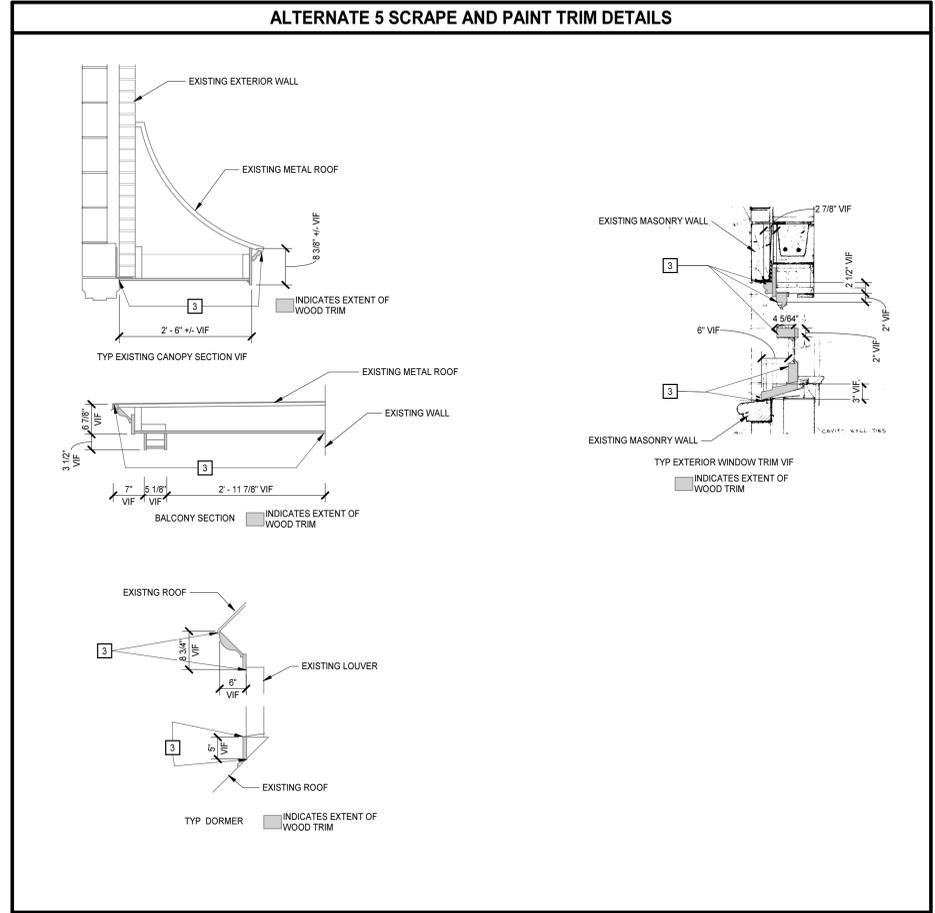
2 WEST ELEVATION
A2.1 | A4.1
1/8" = 1'-0"

KING HALL ALTERNATE SUMMARY	
ALTERNATE #1:	REPLACE EXISTING WINDOWS AND WINDOW SHADES REFER TO A1.1, A2.1, A3.1.1, AND A3.2.2
ALTERNATE #2:	RECOAT FLATROOF REFER TO A2.2
ALTERNATE #3:	PROVIDE CARPET PAINT AND BASE IN FIRST FLOOR OFFICES REFER TO A1.1 AND A3.0.1
ALTERNATE #3A:	PROVIDE CARPET PAINT AND BASE IN FIRST FLOOR CLASSROOM 104 REFER TO A1.1 AND A3.0.1
ALTERNATE #4:	PROVIDE 2 NEW EXTERIOR WINDOWS AND WINDOW SHADES AT ROOM 201A REFER TO A1.1, A2.1, A3.1.1, A3.2.1, AND A4.1
ALTERNATE #5:	SCRAPE AND PAINT EXTERIOR TRIM REFER TO A4.1
ALTERNATE #6:	REPLACE HOLLOW METAL FRAMES @ DOORS S100, S101.2, S200, AND S201 REFER TO A2.1, A3.1.1, AND A3.2.1
ALTERNATE #7:	CUSTOM WAYFINDING REFER TO A3.0.1
ALTERNATE #8:	RECONFIGURE AND UPDATE MENS TOILET ROOM REFER TO A1.1, A2.1, AND A2.3

BUILDING ELEVATION KEYNOTES	
REPRESENTED BY [n]	
APPLIES TO DRAWINGS A4.1 - A4.n	
1	FACE BRICK SOLDIER COURSE, BRICK TO MATCH EXISTING
2	FACE BRICK SILL, BRICK TO MATCH EXISTING
3	ALTERNATE #5 SCRAPE AND PAINT EXTERIOR TRIM AT ALL WINDOWS CANOPIES AND DOORS
4	INFILL WALL OPENING WITH METAL LOUVER
5	FACE BRICK TOOTH IN BRICK, BRICK TO MATCH EXISTING



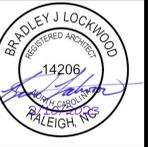
3 NORTH ELEVATION
A2.1 | A4.1
1/8" = 1'-0"



ALTERNATE # 5 ORIGINAL AS BUILT DETAILS MARK UP
NO SCALE



4 SOUTH ELEVATION
A2.1 | A4.1
1/8" = 1'-0"



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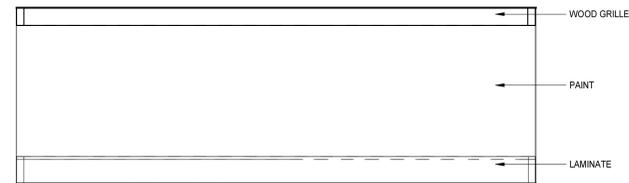
J
I
H
G
F
E
D
C
B
A

1 2 3 4 5 6 7 8 9 10

1
A3.0.1/A4.2

ELEVATION - LOBBY - 100

1/4" = 1'-0"



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INTERIOR ELEVATIONS

ALDERMAN AND KING HALL RENOVATIONS - KING HALL

University of North Carolina Wilmington
SCOR#22-24639-01A
601 Hamilton Drive, Wilmington, NC 28403



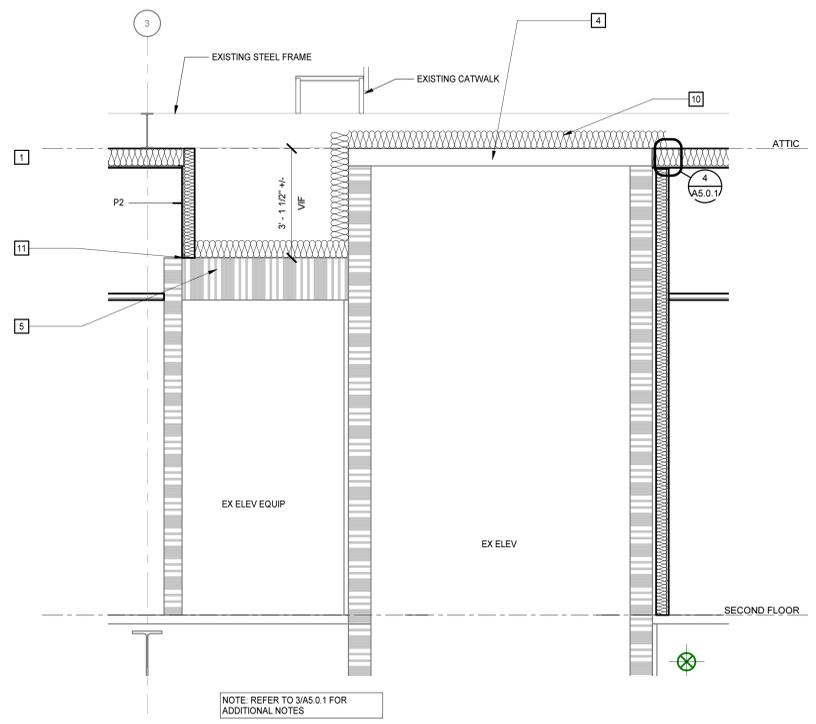
MOSELEYARCHITECTS

911 N. WEST STREET, SUITE 205 RALEIGH, NORTH CAROLINA, 27603
PHONE (919) 840-0081
MOSELEYARCHITECTS.COM

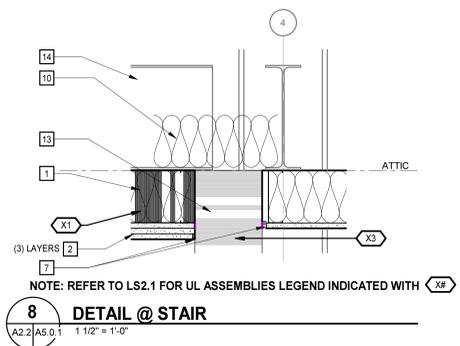
A4.2



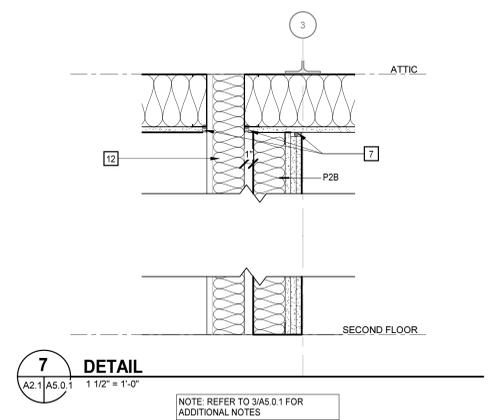
WALL SECTION KEYNOTES	
REPRESENTED BY [1]	
APPLIES TO DRAWINGS A5.1.0	
1	6" CFSF-S FILLED WITH BATT INSULATION
2	5/8" GYPSUM BOARD, TAPE AND SEAL ALL JOINTS
3	EXISTING 2 HOUR CONSTRUCTION TO REMAIN
4	EXISTING 6" CONCRETE CAP TO REMAIN. CAP MEETS 721.1 (3) MINIMUM THICKNESS OF 5" FOR A PRESCRIPTIVE RATING
5	EXISTING ULG504 TO REMAIN
6	TAPE AND SEAL ALL JOINTS IN 5/8" GYP
7	CONTINUOUS ACOUSTIC SEALANT
8	PARTITION TYPE VARIES REFER TO FLOOR PLANS
9	EXISTING PARTITION
10	6" BATT INSULATION
11	LOCATE WALL AT EDGE OF EXISTING CONCRETE CAP
12	FILL EXISTING STUD CAVITY WITH SOUND ATTENUATION BLANKETS
13	EXISTING WALL WITH PRESCRIPTIVE 1 HOUR RATING PER 721.1(2)
14	EXISTING JOIST BEYOND



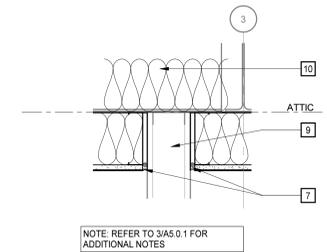
6 SECTION
 A2.2 | A5.0.1 | 1/2" = 1'-0"



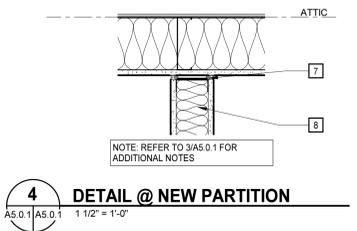
8 DETAIL @ STAIR
 A2.2 | A5.0.1 | 1 1/2" = 1'-0"



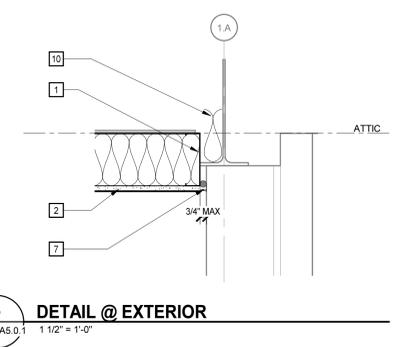
7 DETAIL
 A2.1 | A5.0.1 | 1 1/2" = 1'-0"



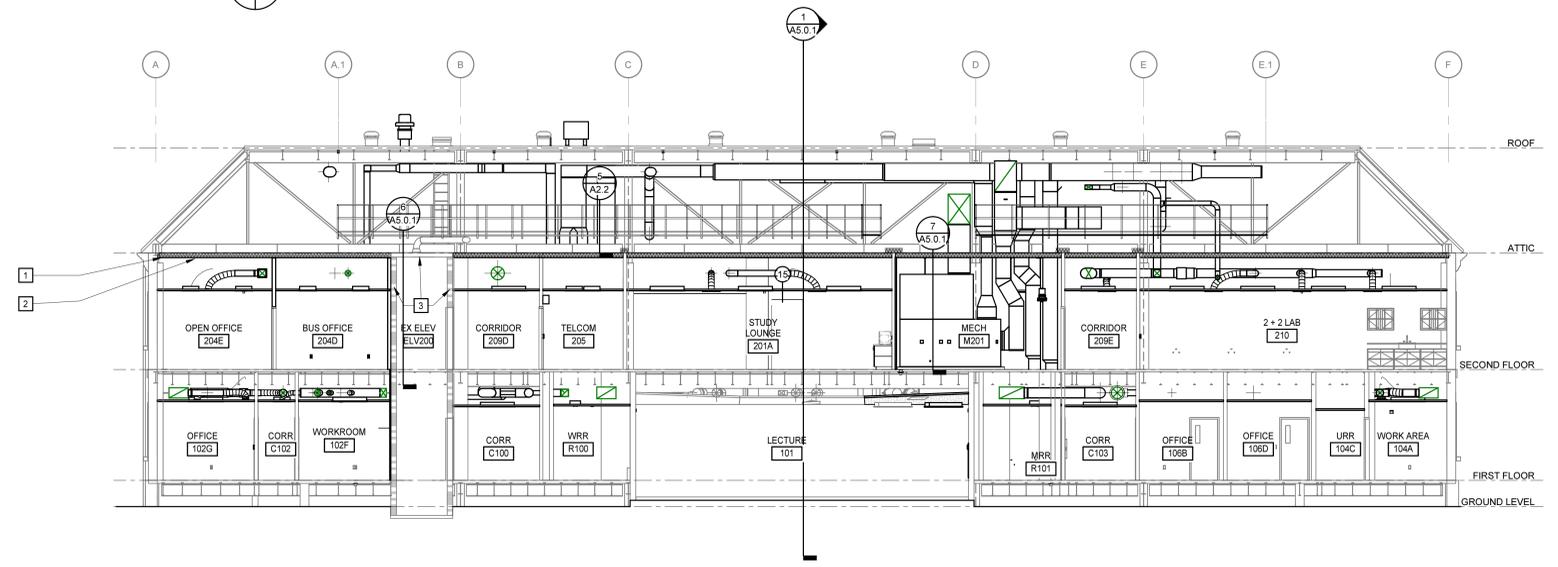
5 DETAIL @ EXISTING PARTITION
 A5.0.1 | A5.0.1 | 1 1/2" = 1'-0"



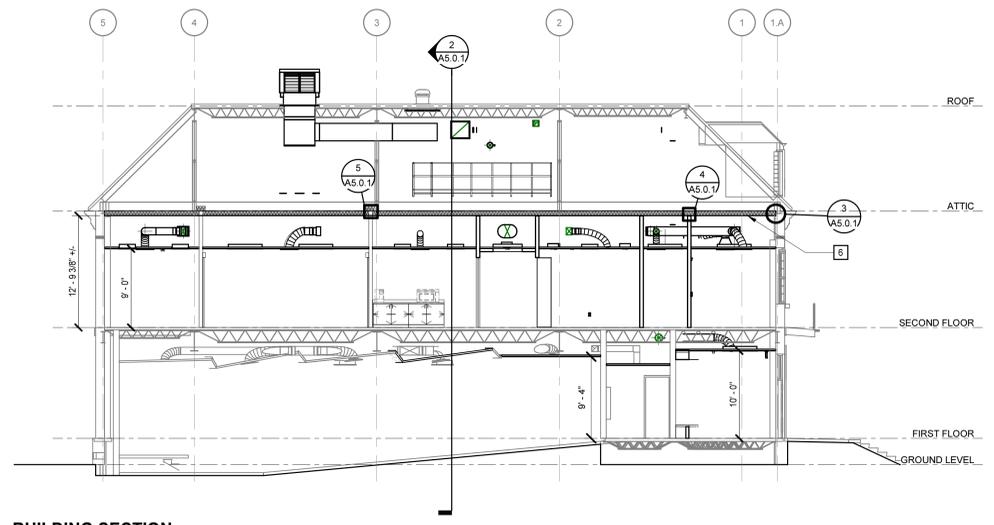
4 DETAIL @ NEW PARTITION
 A5.0.1 | A5.0.1 | 1 1/2" = 1'-0"



3 DETAIL @ EXTERIOR
 A5.0.1 | A5.0.1 | 1 1/2" = 1'-0"



2 BUILDING SECTION
 A2.1 | A5.0.1 | 1/8" = 1'-0"



1 BUILDING SECTION
 A2.1 | A5.0.1 | 1/8" = 1'-0"



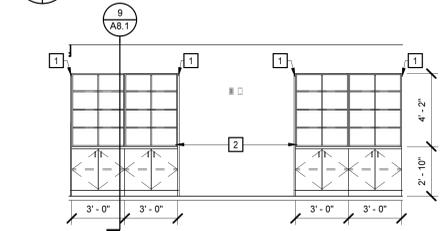
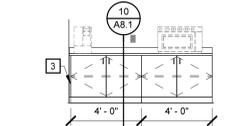
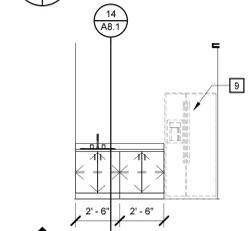
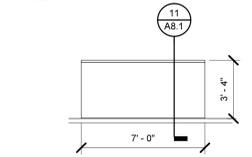
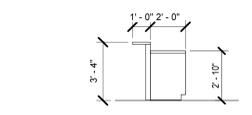
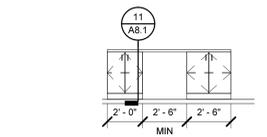
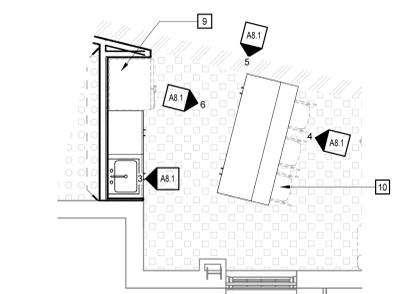
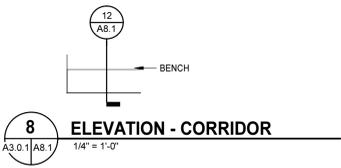
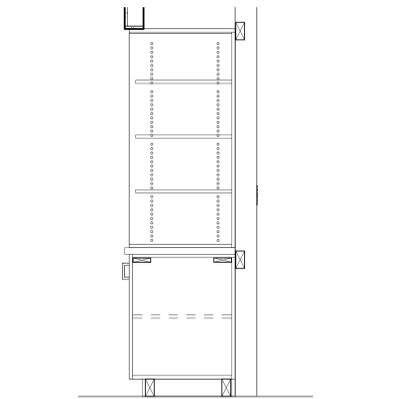
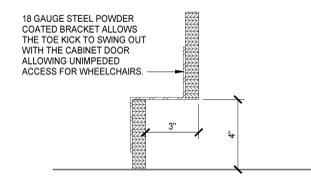
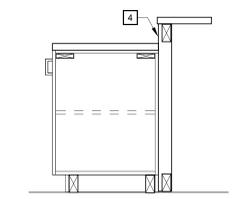
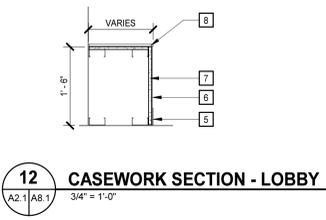
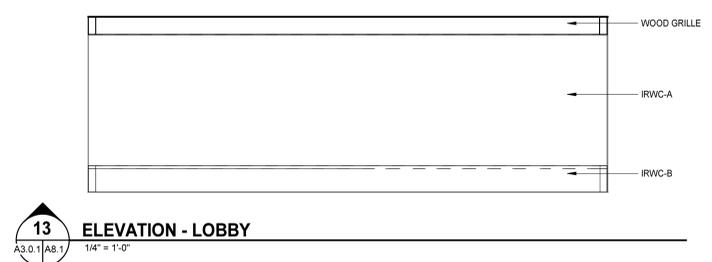
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- ### CASEWORK GENERAL NOTES
- A. UNLESS INDICATED OTHERWISE, ALL COUNTERTOP(S):
 - 2'-10" AFF OR 2'-10" TO TOP OF RIM AT DROP-IN SINKS AND LAVATORIES WHERE OCCURS
 - 2'-1" DEEP
 - SOLID SURFACE
 - BACKSPASHES: 4" HIGH AT ALL SIDES AND BACK
 - EXTEND COUNTERTOP 1/2" PAST BASE CABINET AT ALL EXPOSED CASEWORK ENDS
 - B. UNLESS INDICATED OTHERWISE, ALL BASE CABINET(S):
 - 2'-0" DEEP NOMINAL
 - TOE KICKS: 4" HIGH AND 3" DEEP
 - SINK LOCATIONS: 3'-0" WIDE CLEAR KNEE SPACE (NO BASE CABINET) FOR BARRIER FREE ACCESS
 - C. UNLESS INDICATED OTHERWISE, ALL WALL CABINET(S):
 - 1'-0" 1/2" DEEP NOMINAL
 - 2'-6" HIGH
 - TOP AT 7'-0" AFF
 - MINIMUM 1" CLEAR INTERIOR DEPTH
 - D. BUILT-IN EQUIPMENT: SIZE OPENING (HEIGHT, WIDTH, AND DEPTH) AND ROUGH-IN REQUIREMENTS AS REQUIRED BASED ON APPROVED MANUFACTURER SUBMITTED.
 - E. ALL SHELVES: ADJUSTABLE UNLESS INDICATED OTHERWISE.
 - F. PROVIDE FINISH END PANELS AT ALL EXPOSED CASEWORK ENDS.
 - G. LOCKS: PROVIDE CABINET DOOR LOCKS, KEYPED PER ROOM, TYPICAL. PROVIDE KEYS TO OWNER.

- ### CASEWORK KEYNOTES
- REPRESENTED BY APPLIES TO DRAWINGS A8.1
- | | |
|----|---|
| 1 | FULL HEIGHT FILLER |
| 2 | COUNTERTOP |
| 3 | FILLER |
| 4 | TILE |
| 5 | RUBBER BASE |
| 6 | FINISH: IRWC |
| 7 | ABUSE RESISTANT GYP WITH LEVEL 4 FINISH |
| 8 | FIXED CUSHION |
| 9 | NIC EQUIPMENT |
| 10 | NIC FURNITURE |





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STRUCTURAL ABBREVIATIONS

AB	ANCHOR BOLT	HSS	HOLLOW STRUCTURAL SECTION
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	HT	HEIGHT
AF	ABOVE FINISHED FLOOR	ID	INSIDE DIAMETER
ALUM	ALUMINUM	IN	INCH
APPROX	APPROXIMATE	INFO	INFORMATION
ARCH	ARCHITECTURAL ARCHITECT	INT	INTERIOR
AVG	AVERAGE	JBE	JOIST BEARING ELEVATION
BLDG	BUILDING	JS	JOIST SUBSTITUTE
BM	BEAM	JST	JOIST
BMC	BUILDING MOUNTED CANOPIES	JT	JOINT
BOT	BOTTOM	K	KIP
BRG	BEARING	LBS	POUNDS
BTWN	BETWEEN	LF	LINEAR FEET (FOOT)
CANT	CANTILEVER	LLH	LONG LEG HORIZONTAL
CFSF	COLD FORMED STEEL FRAMING	LLV	LONG LEG VERTICAL
CIP	CAST IN PLACE	M	METER(S)
CJ	CONTROL JOINT	MAS	MASONRY
CLG	CEILING	MATL	MATERIAL
CLR	CLEAR	MAX	MAXIMUM
CMU	CONCRETE MASONRY UNIT	MBMA	METAL BUILDING MANUFACTURERS ASSOC
COL	COLUMN	MBS	METAL BUILDING SYSTEM
CONC	CONCRETE	MECH	MECHANICAL
CONN	CONNECTION	MFR	MANUFACTURER
CONSTR	CONSTRUCTION	MIN	MINIMUM
CONT	CONTINUOUS	MM	MILLIMETER(S)
CTR	CENTER	NOM	NOMINAL
DBA	DEFORMED BAR ANCHOR	NS	NON SHIRK
DBL	DOUBLE	OC	ON CENTER
DIA	DIAMETER	OD	OUTSIDE DIAMETER
DIAG	DIAGONAL	OCFI	OWNER FURNISHED CONTRACTOR
DM	DIMENSION	INSTALLED	INSTALLED
DN	DOWN	OPNG	OPENING
DWG	DRAWING	OPP	OPPOSITE
EA	EACH	PAF	POWDER-ACTUATED FASTENERS
EF	EACH FACE	PC CONC	PRECAST CONCRETE
EXP	EXPANSION JOINT	PFC	PRE-FABRICATED BUILDING COLUMN
EL	ELEVATION	PLF	POUNDS PER LINEAR FOOT
ELECT	ELECTRICAL	POLY	POLYETHYLENE
ELEV	ELEVATOR	PPT	PRESSURE PRESERVATIVE TREATED
EOD	EDGE OF DECK	PSF	POUNDS PER SQUARE FOOT
EOS	EDGE OF SLAB	PTFE	POLY(TETRAFLUORO)ETHYLENE
EQ	EQUAL	R	RADIUS
EW	EACH WAY	RD	ROOF DRAIN
EX	EXISTING	REF	REFERENCE
EXP	EXPANSION	RENF	REINFORCING, REINFORCED
EXT	EXTERIOR	REQD	REQUIRED
FB	FIXED BASE	SIM	SIMILAR
FD	FLOOR DRAIN	SL	SLOPE
FDN	FOUNDATION	SOG	SLAB ON GRADE
FF	FINISHED FLOOR	SPA	SPACES
FIN	FINISHED	SS	STAINLESS STEEL
FLR	FLOOR	STD	STANDARD
FOB	FACE OF BRICK	STIFF	STIFFENER
FOC	FACE OF CONCRETE	STRUCT	STRUCTURAL
FOM	FACE OF MASONRY	SUSP	SUSPENDED
FRMG	FRAMING	SYM	SYMMETRY(RICAL)
FRT	FIRE RETARDANT TREATED	T&B	TOP AND BOTTOM
FT	FOOT	T&G	TONGUE AND GROOVE
FTG	FOOTING	TF	TRANSFER FORCE
GA	GAGE	TOC	TOP OF CONCRETE
GALV	GALVANIZED	TOS	TOP OF STEEL
GB	GRADE BEAM	TOSL	TOP OF SLAB
GC	GENERAL CONTRACTOR	TOW	TOP OF WALL
GRD	GRADE	TYP	TYPICAL
HD	HEADED	UNO	UNLESS NOTED OTHERWISE
HK	HOOK	VB	VAPOR BARRIER
HORIZ	HORIZONTAL	VERT	VERTICAL
HS	HIGH STRENGTH	VR	VAPOR RETARDER
		WP	WORK POINT
		WWF	WELDED WIRE FABRIC

DESIGN LOAD DATA

- CLASSIFICATION OF BUILDING
 RISK CATEGORY (IBC TABLE 1604.5) III
- WIND DESIGN DATA
 ULTIMATE DESIGN WIND SPEED (3 SECOND GUST) 155 MPH
 EXPOSURE B
 INTERNAL PRESSURE COEFFICIENT (C_{pi}) 0.18 (ENCLOSED)
 HEIGHT TO EAVES 30 FT
 MEAN HEIGHT 36 FT
 COMPONENTS AND CLADDING WIND PRESSURE REFER TO DIAGRAM BELOW (PER IBC & ASCE7)

GENERAL

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NORTH CAROLINA BUILDING CODE (NCBC), 2018 EDITION.
- THE STRUCTURAL DRAWINGS ARE INTENDED TO BE USED IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS AND THE DRAWINGS OF THE OTHER ENGINEERING DISCIPLINES.
- THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUANTITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.
- VERIFY AND COORDINATE MECHANICAL UNIT SUPPORTS AND OPENINGS WITH EQUIPMENT PURCHASED FOR THE PROJECT. COORDINATE REQUIREMENTS FOR SLEEVES, HANGERS, INSERTS, ANCHORS AND ALL OTHER ITEMS TO BE SET IN STRUCTURAL WORK.
- SPECIAL INSPECTIONS ARE REQUIRED BY THE NCBC, SECTION 1704. REFER TO THE STATEMENT OF SPECIAL INSPECTIONS PREPARED FOR THIS PROJECT AND THE PROJECT SPECIFICATIONS FOR SPECIFIC INSPECTION REQUIREMENTS. REFER TO SPECIFICATION SECTION D1400 FOR GENERAL INSPECTION REQUIREMENTS. SPECIAL INSPECTOR SHALL SUBMIT INSPECTION REPORTS IN COMPLIANCE WITH IBC SECTION 1704.2.4. USE OF "GENERAL CONFORMANCE" OR "GENERAL ACCORDANCE" IS UNACCEPTABLE.
- CONTRACTOR SHALL CONDUCT PRE-INSTALL MEETINGS ON PROJECT SITE PRIOR TO COMMENCEMENT OF WORK. REFER TO PROJECT SPECIFICATIONS FOR SPECIFIC REQUIREMENTS. MEETINGS WILL BE LED BY GENERAL CONTRACTOR AND ATTENDANCE BY MOSELEY ARCHITECTS IS FOR INFORMATIONAL PURPOSES ONLY.

STRUCTURAL STEEL

- ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE FOLLOWING AISC DOCUMENTS:
 AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS"
 AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES"
 RCSCS "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS"
- STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLOWING SPECIFICATIONS:
 WIDE FLANGE SHAPES AND ANGLES ASTM A992 (FY=50 KSI)
 HOLLOW STRUCTURAL SECTIONS (HSS, SQUARE) ASTM A500, GRADE C (FY=50 KSI)
 MISCELLANEOUS SHAPES, PLATES, & BARS ASTM A36 (FY=36 KSI)
- WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 "STRUCTURAL WELDING CODE - STEEL".
- STRUCTURAL STEEL EXPOSED TO WEATHER IN THE FINISHED WORK SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123, UNLESS NOTED OTHERWISE.

CONCRETE MASONRY (CMU)

- ALL MASONRY WORK SHALL CONFORM TO THE REQUIREMENTS OF TMS 402 "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES WITH COMMENTARY" AND TMS 402 "SPECIFICATIONS FOR MASONRY STRUCTURES WITH COMMENTARY".
- MORTAR FOR CMU SHALL CONFORM TO ASTM C270, TYPE S, UNLESS NOTED OTHERWISE.
- GROUT SHALL CONFORM TO ASTM C476 AND SHALL BE PROPORTIONED TO OBTAIN MINIMUM ULTIMATE 28 DAY COMPRESSIVE STRENGTH OF 2500 PSI.
- PLACE GROUT IN ACCORDANCE WITH TMS 402. ALLOW A MINIMUM OF 24 HOURS FOR MASONRY TO SET PRIOR TO PLACING GROUT. HIGH LIFT GROUTING IS PROHIBITED.
- PROVIDE VERTICAL REINFORCING STEEL OF SIZE AND SPACING INDICATED. LAP SPlice LENGTHS SHALL BE AS FOLLOWS:
 #4 BAR 26 INCHES
- REINFORCING STEEL SHALL COMPLY WITH ASTM A615, GRADE 60.
- DO NOT PLACE CONDUIT IN CELLS CONTAINING STRUCTURAL REINFORCING.

STEEL DECK

- ALL STEEL DECK WORK SHALL CONFORM TO THE LATEST EDITION OF THE STEEL DECK INSTITUTE (SDI) "DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS AND ROOF DECKS", AND AMERICAN IRON AND STEEL INSTITUTE (AISI) "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS".
- PERMANENT LOADS SHALL NOT BE SUSPENDED FROM STEEL ROOF DECK UNLESS APPROVED BY ENGINEER OF RECORD.
- STEEL DECK SHALL BE 22 GA 1 1/2" WIDE RIB ROOF DECK, GALVANIZED.

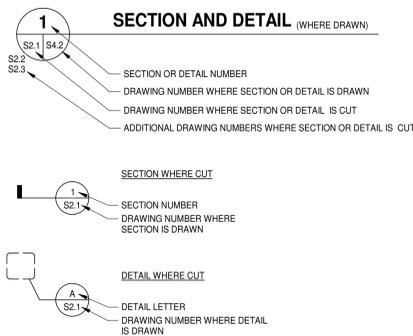
RENOVATION

- EXISTING CONSTRUCTION INDICATED ON THE STRUCTURAL DRAWINGS IS BASED ON INFORMATION OBTAINED FROM THE ORIGINAL DESIGN DRAWINGS AND ON LIMITED OBSERVATIONS OF EXISTING CONDITIONS. THIS INFORMATION, INCLUDING STRUCTURAL COMPONENT TYPE, SIZE AND ORIENTATION HAS NOT BEEN CONFIRMED IN ALL CASES, AND MAY NOT MATCH "AS-BUILT" EXISTING CONSTRUCTION. ALL EXISTING CONDITIONS AND DIMENSIONS RELATING TO THE NEW WORK SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION AND CONSTRUCTION OF STRUCTURAL ELEMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
- EXISTING CONSTRUCTION IS INDICATED USING A LIGHTER LINE WEIGHT THAN NEW CONSTRUCTION IN PLANS AND SECTIONS.

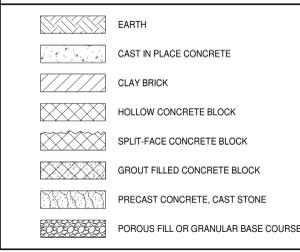
TEMPORARY SHORING

- PROVIDE TEMPORARY SHORING AND BRACING TO MAINTAIN THE EXISTING STRUCTURE IN PROPER ALIGNMENT UNTIL PERMANENT CONSTRUCTION AND LATERAL BRACING IS IN PLACE.
- THE TEMPORARY SHORING DIAGRAMS ARE CONCEPTUAL ONLY. DESIGN OF TEMPORARY SHORING SHALL BE PROVIDED BY THE CONTRACTOR. DESIGN CALCULATIONS AND SHORING DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NORTH CAROLINA.
- CAREFULLY EVALUATE THE SITUATION WHICH EXISTS PRIOR TO COMMENCEMENT OF WORK. NOTIFY THE ARCHITECT IF ANY CONDITIONS ARE DETECTED WHICH MAY AFFECT THE STABILITY OF THE EXISTING STRUCTURE OR THE SHORING.
- MONITOR THE PERFORMANCE OF THE TEMPORARY SHORING AT ALL TIMES DURING THIS WORK AND HAVE ADDITIONAL SHORING READILY AVAILABLE ON SITE IN THE EVENT OF DEFLECTION OR OTHER MOVEMENT OF THE SHORING.
- REFER TO THE PHASING PLAN ON ARCH DRAWINGS. WORK SHALL BE COORDINATED TO PROHIBIT ACCESS TO FLOOR AREAS ABOVE THIS WORK DURING DEMOLITION AND UNTIL FINAL SUPPORT IS COMPLETED.

LEGEND FOR SECTION AND DETAIL MARKS



STRUCTURAL MATERIALS LEGEND



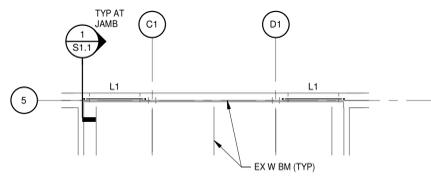
LINTEL SCHEDULE

MARK	DIAGRAM	STEEL	NOTES
L1		WT7x13 W/ 11" WIDE BOTTOM PL	4" MIN BEARING EA END

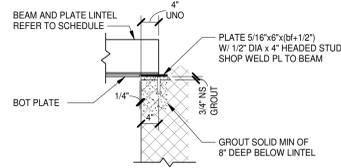
- LINTEL NOTES**
- LINTELS FOR ARCHITECTURAL OPENINGS (WINDOWS, DOORS, LOUVERS) IN BEARING WALLS AND EXTERIOR WALLS ARE IDENTIFIED BY MARK NUMBER ON THE FRAMING PLANS) AND INCLUDED IN THE LINTEL SCHEDULE.
 - LINTELS FOR ARCHITECTURAL OPENINGS IN NON-LOAD BEARING WALLS AND OTHER WALLS WHICH ARE NOT INDICATED ON THE FRAMING PLANS) SHALL BE CONSTRUCTED PER NOTES A, B OR C BELOW.
 - STEEL ANGLE LINTELS**
 PROVIDE ONE ANGLE FOR EACH NOMINAL 4" OF WALL THICKNESS PER THE FOLLOWING SCHEDULE.

MASONRY OPENING	ANGLE SIZE
UP TO 5'-0"	L3 1/2x1 1/2x 5/16
5'-1" TO 6'-0"	L4x3 1/2x 5/16 (LLV)
6'-1" TO 7'-0"	L5x3 1/2x 3/8 (LLV)
OVER 7'-0"	AS DETAILED

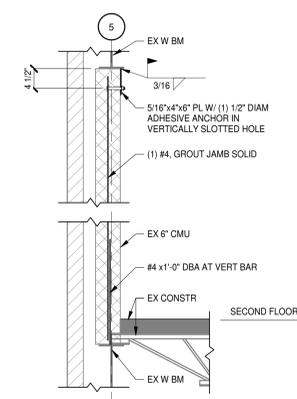
 FOR OPENINGS IN 10" CMU, HORIZONTAL LEGS OF ANGLES SHALL BE A COMBINATION OF 5" AND 4".
 FOR OPENINGS IN 6" CMU REQUIRING STEEL LINTELS, USE WT7x11 UP TO 7'-0" OPENING.
 - REINFORCED BOND BEAM LINTELS**
 LINTELS SHALL MATCH THICKNESS OF WALL. REINFORCE 8", 10" AND 12" BOND BEAM WITH (2) #5 BARS AT BOTTOM. REINFORCE 6" BOND BEAM WITH (1) #5 BAR AT BOTTOM. BOND BEAM SHALL BE 8" DEEP FOR OPENING WIDTH UP TO 5'-0" AND SHALL BEAR 6" ON SOLID MASONRY EACH END. BOND BEAM SHALL BE 16" DEEP FOR OPENING WIDTH UP TO 8'-0" AND SHALL BEAR 16" ON SOLID MASONRY EACH END WITH REINFORCING TOP AND BOTTOM. PLACE GROUT MONOLITHICALLY IN BOTH COURSES OF 16" DEEP BOND BEAM.
 - PRECAST CONCRETE LINTELS**
 PRECAST CONCRETE LINTELS SHALL BE 3'5/8" x 7'5/8" FOR EACH NOMINAL 4" THICKNESS OF WALL. REINFORCING SHALL BE (1) #4 TOP AND BOTTOM WITH 1 1/2" COVER. FOR OPENINGS IN 6" CMU, LINTEL SHALL BE 5'5/8" x 7'5/8" REINFORCED WITH (1) #5 TOP AND BOTTOM. MASONRY OPENING WIDTH SHALL BE 6'-0" OR LESS. DO NOT USE PRECAST CONCRETE LINTELS IN EXPOSED LOCATIONS.
 - LINTELS FOR MECHANICAL DUCTWORK PENETRATIONS NOT OTHERWISE DETAILED SHALL BE ONE OF THE ABOVE (NOTE 2A, 2B, OR 2C).
 - LINTELS SHALL BEAR 6" ONTO SOLID OR GROUT FILLED MASONRY, UNLESS OTHERWISE INDICATED.
 - LINTELS ARE REQUIRED OVER ALL MASONRY OPENINGS GREATER THAN 8" IN WIDTH.
 - LINTELS ARE NOT REQUIRED ABOVE HOLLOW METAL FRAMES IN OPENINGS 3'-4" OR LESS IN 6" NON-BEARING MASONRY PARTITIONS. GROUT HEAD OF FRAMES SOLID BEFORE PLACING MASONRY.
 - ALL LINTELS IN EXTERIOR WALLS SHALL BE GALVANIZED.



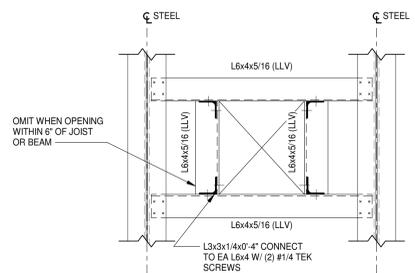
PART PLAN - ALTERNATE - ATTIC
 1/8" = 1'-0"



STEEL LINTEL DETAILS
 NO SCALE



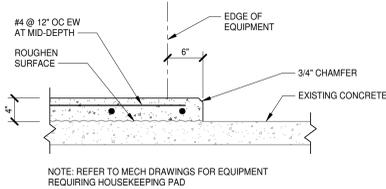
SECTION 1
 3/4" = 1'-0"



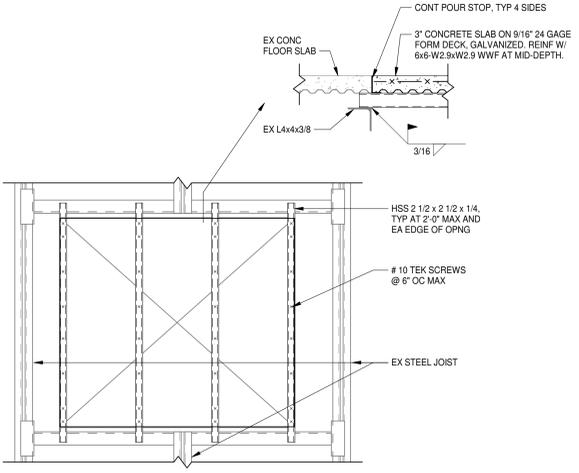
- NOTES:**
- VERIFY SIZE AND LOCATIONS OF FLOOR OPENINGS WITH PRODUCT PROVIDED.
 - USE ANGLE FRAME FOR ALL FLOOR OPENINGS 6" OR LARGER NOT OTHERWISE INDICATED.
 - PRE-DRILL ANGLES AS REQUIRED.

FLOOR OPENING SUPPORT DETAIL - EXISTING CONSTRUCTION

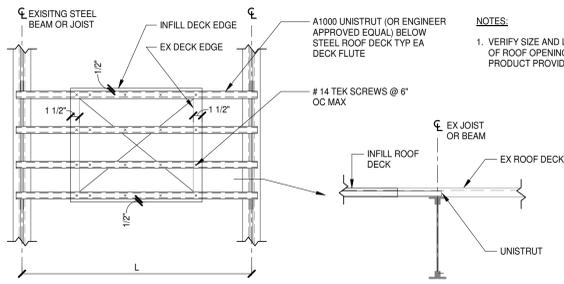
NO SCALE
 NOTE: REFER TO ARCH AND MECH DWGS FOR FLOOR OPENING LOCATIONS.



HOUSEKEEPING PAD DETAIL
 NO SCALE

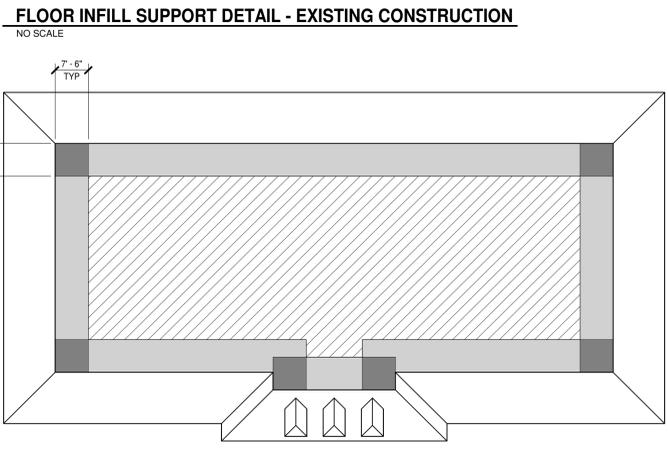


FLOOR INFILL SUPPORT DETAIL - EXISTING CONSTRUCTION
 NO SCALE



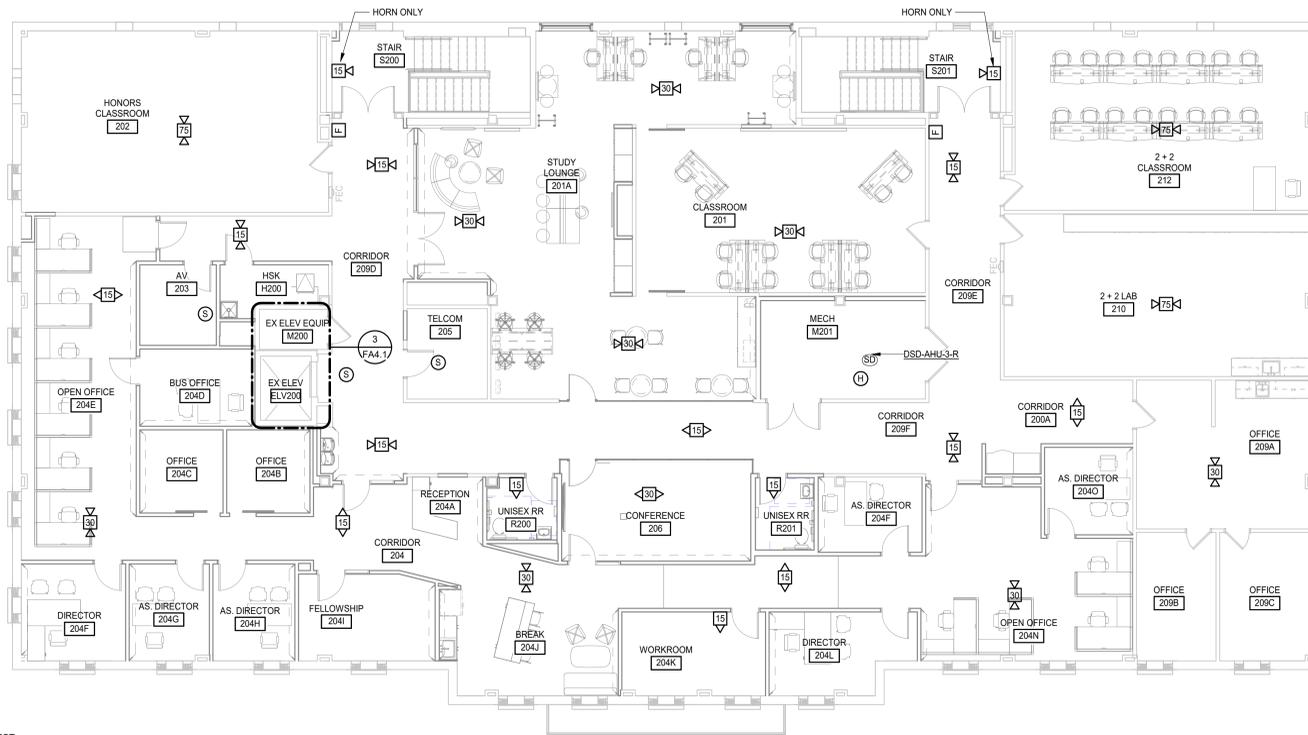
UNISTRUT - ROOF INFILL SUPPORT DETAIL - EXISTING CONSTRUCTION

NO SCALE
 NOTE: REFER TO ARCH AND MECH DWGS FOR ROOF INFILL LOCATIONS.

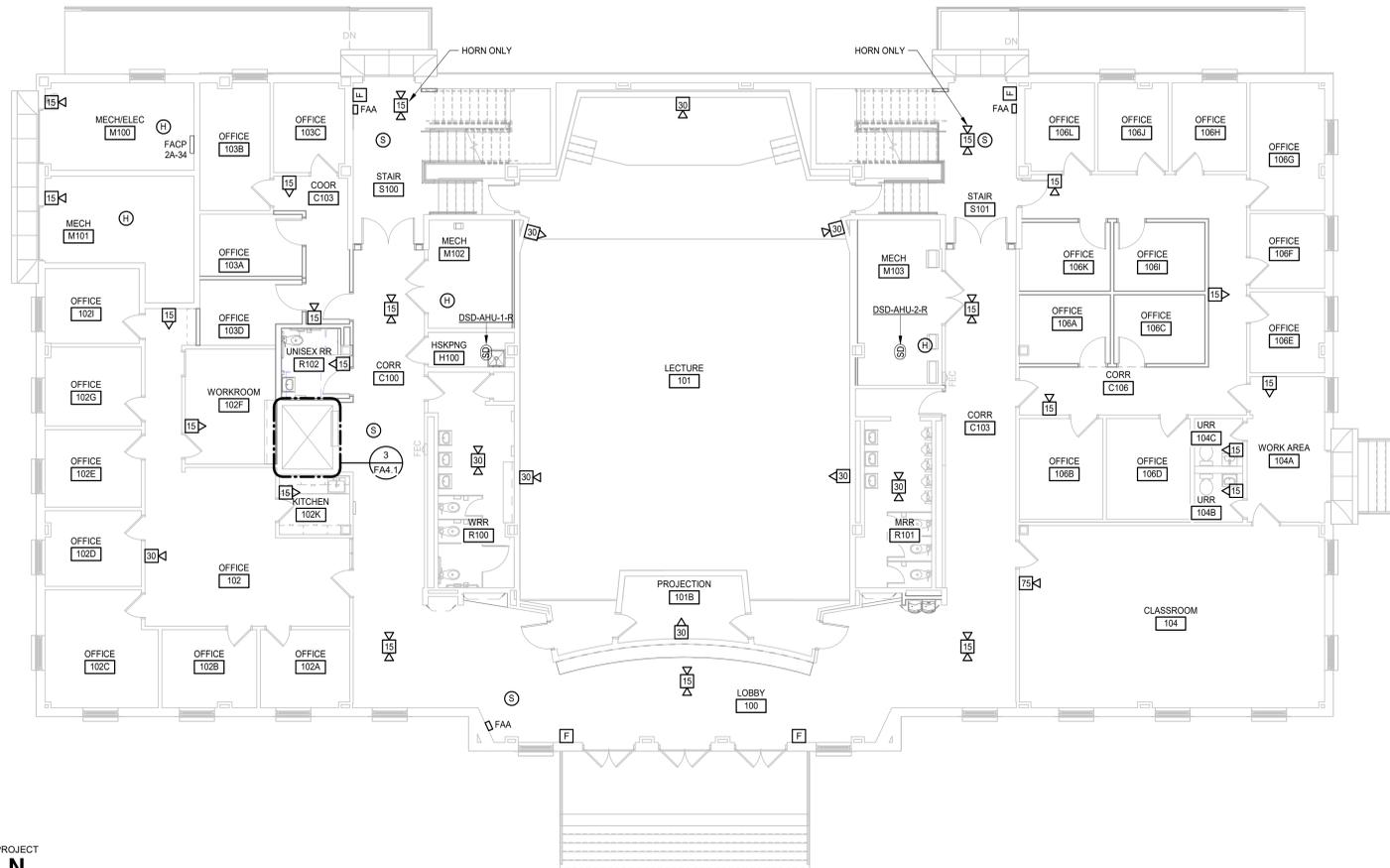


GROSS WIND PRESSURE				
ZONE	AREA ≤ 10 FT²	AREA ≤ 20 FT²	AREA ≤ 50 FT²	AREA ≤ 100 FT²
1	+37 PSF/-71 PSF	+32 PSF/-63 PSF	+25 PSF/-53 PSF	+20 PSF/-45 PSF
2r	+37 PSF/-111 PSF	+32 PSF/-93 PSF	+25 PSF/-86 PSF	+20 PSF/-50 PSF
3	+37 PSF/-126 PSF	+32 PSF/-93 PSF	+25 PSF/-50 PSF	+20 PSF/-50 PSF
4	+50 PSF/-54 PSF	+44 PSF/-49 PSF	+40 PSF/-44 PSF	+37 PSF/-41 PSF
5	+50 PSF/-66 PSF	+44 PSF/-56 PSF	+40 PSF/-47 PSF	+37 PSF/-41 PSF

- ROOF WIND PRESSURE DIAGRAM NOTES:**
- PRESSURES INDICATED ARE UNFACTORED ULTIMATE COMPONENTS AND CLADDING WIND PRESSURES PER ASCE 7.
 - ROOF ZONES WITHIN THE SCOPE OF WORK ARE INDICATED ON DIAGRAM. FOR AREAS OF ROOF INFILL WITHIN TWO ROOF ZONES, THE GREATER WIND PRESSURE SHALL APPLY.
 - EFFECTIVE WIND AREA SHALL BE DETERMINED IN ACCORDANCE WITH ASCE 7.
 - ZONE 1 IS INDICATED BY:
 - ZONE 2r IS INDICATED BY:
 - ZONE 3 IS INDICATED BY:
 - INTERIOR REGIONS OF WALLS ARE ZONE 4 AND CORNER REGIONS OF WALLS ARE ZONE 5.
 - (+) INDICATES PRESSURES ACTING TOWARDS THE ROOF OR WALL SURFACE (INWARDS). (-) INDICATES PRESSURES ACTING AWAY FROM THE ROOF OR WALL SURFACE (OUTWARDS).
 - AN ALLOWABLE ROOF DEAD LOAD MAY BE TAKEN AS 10 PSF FOR UPLIFT RESISTANCE.



PROJECT
N
POLAR
SECOND FLOOR PLAN - FIRE ALARM
1/8" = 1'-0"



PROJECT
N
POLAR
FIRST FLOOR PLAN - FIRE ALARM
1/8" = 1'-0"

GENERAL NOTES

- THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.
- FOLLOW MOUNTING HEIGHTS INDICATED IN THE ELECTRICAL LEGEND UNLESS OTHERWISE INDICATED. MEASURE ALL MOUNTING HEIGHTS FROM THE DEVICE CENTER LINE UNLESS OTHERWISE INDICATED.
- FIELD VERIFY EXACT FEEDER LOCATIONS FOR MECHANICAL EQUIPMENT PRIOR TO ROUGH-IN.
- EQUIPMENT CONNECTIONS ARE INDICATED IN THEIR APPROXIMATE LOCATIONS. VERIFY EXACT LOCATIONS OF ALL CONNECTIONS WITH OTHER TRADES SUPPLYING EQUIPMENT TO AVOID CONFLICTS AT INSTALLATION.
- LOCATED ALL SWITCHES FOR LOCAL CONTROL OF LIGHTING ON STRIKE SIDE OF SINGLE DOORS UNLESS OTHERWISE INDICATED.
- PROVIDE SPECIFIC BREAKER ARRANGEMENT FOR THE PANEL BOARDS WHEREVER PHYSICALLY POSSIBLE. PROVIDE AS-BUILT DRAWINGS INDICATING ACTUAL BRANCH CIRCUIT ARRANGEMENT. PROVIDE TYPE WRITTEN PANELBOARD DIRECTORIES INDICATING ACTUAL BRANCH CIRCUIT ARRANGEMENT.
- PROVIDE AS-BUILT DRAWINGS INDICATING ACTUAL BRANCH CIRCUIT ARRANGEMENT. PROVIDE TYPEWRITTEN PANELBOARD DIRECTORIES INDICATING ACTUAL BRANCH CIRCUIT ARRANGEMENT. HAND WRITTEN SCHEDULES ARE NOT ACCEPTABLE. CONTRACTOR SHALL FIELD VERIFY EXISTING CIRCUIT SPACE NAMES AND NUMBERS AND PROVIDE FINAL DESCRIPTION IN TYPED PANELBOARD DIRECTORY.
- ALL CONDUIT RUNS INDICATED ARE DIAGRAMMATIC. COORDINATE ROUTING IN ALL SPACES WITH OTHER TRADES.
- ALL PANELBOARDS INDICATED ARE HOUSED IN A SINGLE WIDTH ENCLOSURE. UNO, THE CONTRACTOR SHALL FIELD VERIFY ROOM LAYOUT AND ADJUST ACCORDINGLY, AT NO COST TO THE OWNER, IF PROVIDING ANY PANELBOARD ENCLOSURES.
- WHERE POWER AND COMMUNICATION OUTLETS ARE INDICATED IN CLOSE PROXIMITY ON THE DRAWINGS, FIELD COORDINATE THE LOCATIONS TO PLACE THE OUTLETS ADJACENT TO EACH OTHER.
- ALL EXTERIOR RECEPTACLES SHALL BE LABELED "WR" - WEATHER RESISTANT.
- WHEN GROUPING MULTIPLE LINE TO NEUTRAL BRANCH CIRCUITS IN A CONDUIT, PROVIDE DEDICATED COLOR CODED NEUTRAL CONDUCTORS FOR EACH CIRCUIT. DO NOT USE BREAKER TIES AND SHARED NEUTRALS EVEN THOUGH PERMITTED BY NEC.
- PROVIDE A 2" WIDE YELLOW LINE PAINTED ON THE FLOOR INDICATING THE ELECTRICAL WORKING SPACE. IN FRONT OF ALL ELECTRICAL PANELS IN ELECTRICAL ROOMS. REFER TO PLANS FOR ELECTRICAL WORKING SPACE DETAILS. STENCIL "NO STORAGE" IN 2" HIGH, YELLOW LETTERS CENTERED IN THE OUTLINED AREA.
- ALL ELECTRICAL INSPECTIONS WITH THE STATE CONSTRUCTION OFFICE INSPECTOR SHALL BE MONDAY THRU FRIDAY UNLESS SPECIFICALLY EXEMPTED AND APPROVED BY THE STATE CONSTRUCTION OFFICE.
- ALL VOICE, DATA AND CATV CABLING DEMOLITION AND INSTALLATION SHALL BE PERFORMED BY A CERTIFIED COMMSCOPE SYSTEMS CONTRACTOR.

FIRE ALARM LEGEND

- SYMBOL DESCRIPTION
- FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE, MOUNT AT 80" AFF AND NOT MORE THAN 96". SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING.
 - FIRE ALARM VISUAL STROBE NOTIFICATION DEVICE, 80" AFF AND NOT MORE THAN 96". SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING.
 - FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE WITH DEVICE GUARD, 80" AFF AND NOT MORE THAN 96". SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING. # / # INDICATES STROBE SETTING AND REDUCED EFFECTIVE OUTPUT WHEN DEVICE GUARD IS PRESENT.
 - FIRE ALARM VISUAL STROBE NOTIFICATION DEVICE WITH DEVICE GUARD, 80" AFF AND NOT MORE THAN 96". SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING. # / # INDICATES STROBE SETTING AND REDUCED EFFECTIVE OUTPUT WHEN DEVICE GUARD IS PRESENT.
 - FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE, CEILING MOUNTED. SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING.
 - FIRE ALARM VISUAL STROBE NOTIFICATION DEVICE, CEILING MOUNTED. SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING.
 - FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE WITH DEVICE GUARD, CEILING MOUNTED. SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING. # / # INDICATES STROBE SETTING AND REDUCED EFFECTIVE OUTPUT WHEN DEVICE GUARD IS PRESENT.
 - FIRE ALARM VISUAL STROBE NOTIFICATION DEVICE WITH DEVICE GUARD, CEILING MOUNTED. SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING. # / # INDICATES STROBE SETTING AND REDUCED EFFECTIVE OUTPUT WHEN DEVICE GUARD IS PRESENT.
 - FIRE ALARM MANUAL PULL STATION, MOUNT AT +3'-10" AFF.
 - FIRE ALARM KEY OPERATED MANUAL PULL STATION, MOUNT AT +3'-10" AFF.
 - FIRE ALARM DUCT SMOKE DETECTOR, FURNISH AND CONNECT UNDER DIVISION 28. INSTALL UNDER DIVISION 23. VERIFY LOCATION WITH DIVISION 23 PRIOR TO ROUGH-IN. PROVIDE ACCESSIBLE KEY OPERATED REMOTE TEST SWITCH FOR EACH DETECTOR.
 - SMOKE DETECTOR, CEILING MOUNT. SUBSCRIPT 'G' WHEN PRESENT INDICATES PROVIDE DEVICE GUARD.
 - HEAT DETECTOR, CEILING MOUNT. SUBSCRIPT 'G' WHEN PRESENT INDICATES PROVIDE DEVICE GUARD.
 - FIRE ALARM TAMPERSWITCH, PROVIDE UNDER DIVISION 23. MONITOR UNDER DIVISION 28.
 - FIRE ALARM FLOW SWITCH, PROVIDE UNDER DIVISION 23. MONITOR UNDER DIVISION 28.
 - POST INDICATOR VALVE SWITCH, PROVIDE UNDER DIVISION 23. MONITOR UNDER DIVISION 28.
 - FIRE ALARM PRESSURE SWITCH, PROVIDE UNDER DIVISION 23. MONITOR UNDER DIVISION 28.
 - FIRE ALARM REMOTE INDICATOR, CEILING MOUNT.
 - FIRE ALARM MONITOR MODULE. NOT ALL MONITOR MODULES ARE INDICATED ON DRAWINGS. PROVIDE QUANTITY AND IN LOCATIONS REQUIRED TO ACCOMPLISH SPECIFIED MONITORING FUNCTIONS.
 - FIRE ALARM CONTROL MODULE. NOT ALL CONTROL MODULES ARE INDICATED ON DRAWINGS. PROVIDE QUANTITY AND IN LOCATIONS REQUIRED TO ACCOMPLISH SPECIFIED CONTROL FUNCTIONS.
 - FIRE ALARM SPRINKLER BELL, MOUNT AT +10'-7" AFF.
 - FIRE ALARM MAGNETIC DOOR HOLDER. SHALL MOUNT DEVICE AT 6" BELOW TOP OF DOOR. PROVIDE HINGED MAGNETIC CATCH PLATE ON DOOR TO MATE WITH DEVICE. COORDINATE LOCATION AND LENGTH WITH DIVISION 08. PROVIDE CONCEALED 120-VOLT POWER CONNECTION AND FIRE ALARM CONTROL MODULE IF REQUIRED FOR PROPER OPERATION.
 - FIRE ALARM DOOR HOLDER/CLOSER HARDWARE UNDER DIVISION 08. MONITOR AND CONTROL INTERFACE WITH FIRE ALARM UNDER DIVISION 28.
 - FIRE ALARM POWER CONNECTION TO DIVISION 23 SMOKE OR FIRE/SMOKE DAMPER. COORDINATE WITH DIVISION 23. REFER TO TYPICAL FIRE/SMOKE DAMPER DIAGRAM.

GRAPHICS SYMBOLS LEGEND

- SPACE IDENTIFICATION TAG**
SPACE NUMBER
BUILDING AREA (WHEN USED)
- SECTION WHERE CUT**
SECTION NUMBER
DRAWING WHERE SECTION IS INDICATED
- ENLARGED PLAN WHERE CUT**
ENLARGED PLAN NUMBER
DRAWING WHERE ENLARGED PLAN IS INDICATED
- DETAIL TAG**
DETAIL NUMBER
DRAWING WHERE DETAIL IS INDICATED
- DETAIL TITLE**
1/4"=1'-0"
DETAIL NUMBER
DRAWING WHERE DETAIL IS INDICATED
DRAWING WHERE DETAIL IS CUT
ADDITIONAL DRAWING REFERENCES
- SECTION TITLE**
1/4"=1'-0"
SECTION NUMBER
DRAWING WHERE SECTION IS INDICATED
DRAWING WHERE SECTION IS CUT
ADDITIONAL DRAWING REFERENCES

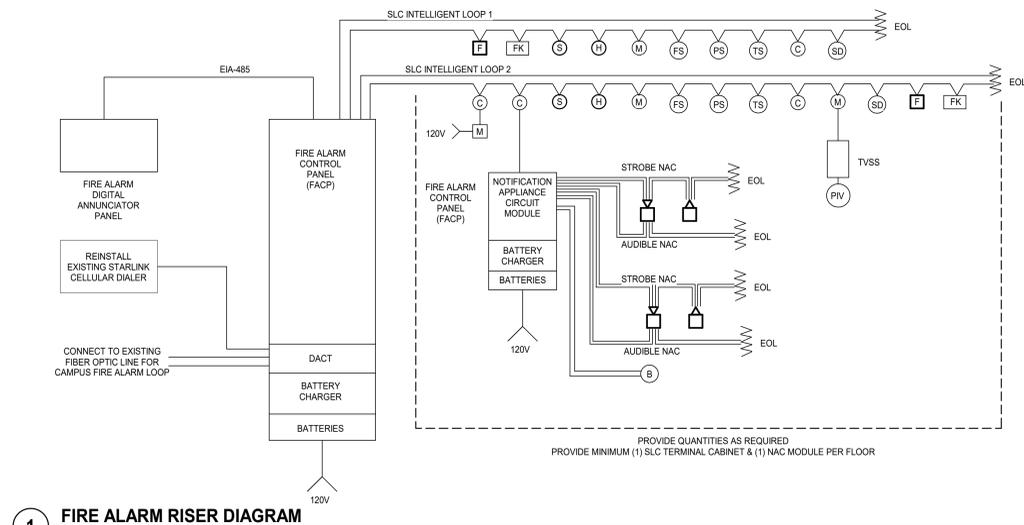


PROJECT NO:	620589
DATE:	FEBRUARY 10, 2023
REVISIONS	
DATE	DESCRIPTION

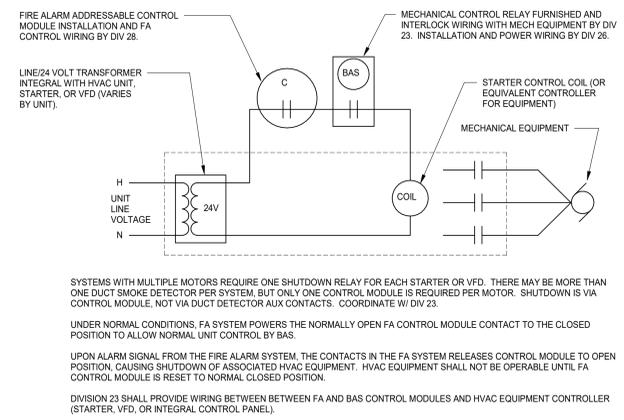


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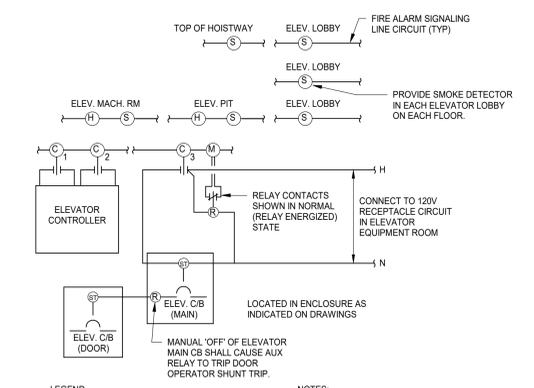
FIRE ALARM INPUT/OUTPUT MATRIX	CONTROL UNIT ANNUNCIATION													NOTIFICATION / ACTION							
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	
1 MANUAL PULL STATION	X	X	X																		
2 SMOKE DETECTOR	X	X	X																		
3 SMOKE DETECTOR - ELEVATOR FIRST FLOOR	X	X	X																		
4 SMOKE DETECTOR - ELEVATOR SECOND FLOOR	X	X	X																		
5 FLOW SWITCH - ELEVATOR FUNCTION	X	X	X																		
6 DUCT SMOKE DETECTOR	X	X	X																		
7 HEAT DETECTOR	X	X	X																		
9 SPRINKLER SYSTEM WATERFLOW	X	X	X																		
10 SPRINKLER VALVE TAMPER SWITCH					X	X															
11 MONITOR MODULE - ELEVATOR SHUNT POWER FAULT					X	X															
14 FIRE ALARM AC POWER FAILURE							X	X	X												
15 FIRE ALARM SYSTEM LOW BATTERY							X	X	X												
16 FIRE ALARM OPEN CIRCUIT							X	X	X												
17 FIRE ALARM GROUND FAULT							X	X	X												
18 FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT SHORT							X	X	X												
19 FIBER OPTIC COMMUNICATIONS PATH FAILURE				X																	



1 FIRE ALARM RISER DIAGRAM
 NO SCALE



2 FIRE ALARM HVAC UNIT SHUTDOWN WIRING DIAGRAM
 NO SCALE



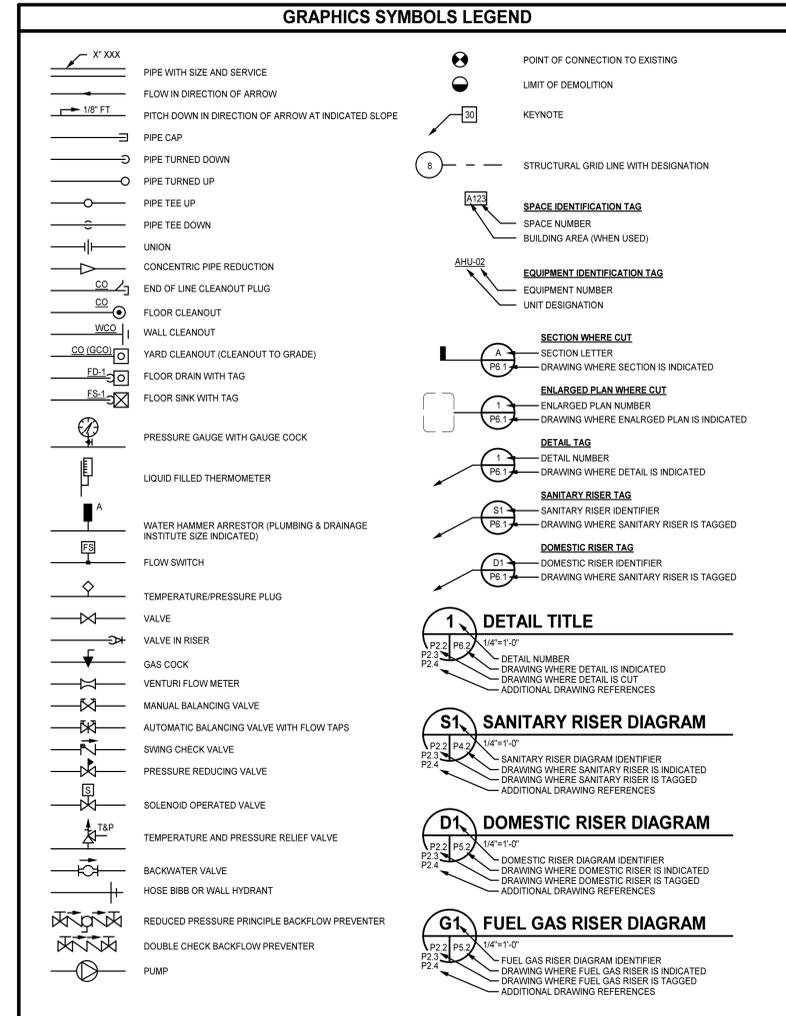
- LEGEND**
- |— NORMALLY OPEN CONTACT
 - |/— NORMALLY CLOSED CONTACT
 - ⊕ SHUNT TRIP COIL/BREAKER (VERIFY CONTROL VOLTAGE - PROVIDE TRANSFORMER IF 24V)
 - ⊙ FIRE ALARM ADDRESSABLE CONTROL MODULE
 - ⊙ FIRE ALARM ADDRESSABLE MONITOR MODULE
 - ⊙ RELAY
 - ⊙ SMOKE DETECTOR FOR ELEVATOR RECALL
 - ⊙ HEAT DETECTOR (FOR SHUNT TRIP)
 - ⊙ SPRINKLER FLOW SWITCH MONITOR
- NOTES:**
- AN ALARM SIGNAL FROM A SMOKE DETECTOR IN THE ELEVATOR HOISTWAY, MACHINE ROOM, OR ELEVATOR LOBBY (OTHER THAN AT THE PRIMARY RECALL LEVEL) SHALL ACTUATE THE FIRST ELEVATOR CONTROL MODULE () C₁.
 - AN ALARM SIGNAL FROM A SMOKE DETECTOR IN THE ELEVATOR LOBBY AT THE PRIMARY RECALL LEVEL SHALL ACTUATE THE SECOND ELEVATOR CONTROL MODULE () C₂.
 - AN ALARM SIGNAL FROM A HEAT DETECTOR OR FLOW SWITCH SERVING THE ELEVATOR HOISTWAY OR MACHINE ROOM SHALL ACTUATE THE SHUNT TRIP CONTROL MODULE () C₃ CAUSING THE ELEVATOR MAIN CIRCUIT BREAKER TO OPEN.
 - LOSS OF CONTROL POWER TO THE SHUNT TRIP BREAKER SHALL OPEN THE RELAY CONTACTS AND INITIATE A SUPERVISORY SIGNAL ON THE FIRE ALARM SYSTEM.
 - FIRE ALARM CONTROL AND MONITOR MODULES SHALL BE MOUNTED WITHIN 36" OF THE EQUIPMENT CONTROLLED OR MONITORED.
 - A HEAT DETECTOR FOR ELEVATOR SHUNT TRIP SHALL BE PROVIDED WITHIN 24" OF EACH SPRINKLER IN THE ELEVATOR HOISTWAY AND MACHINE ROOM.

3 ELEVATOR RECALL & SHUNT TRIP DIAGRAM
 NO SCALE

DESIGNATOR MATRIX				
	WALL	BARRIER	PARTITION	HATED BEARING OR NON-BEARING WALL
2 HR FIRE	XXXXXX	XXXXXX	XXXXXX	
1 HR FIRE	XXXXXX	XXXXXX	XXXXXX	

NOTES:
1. REFER TO LIFE SAFETY DRAWINGS FOR ALL WALL RATING DETAILS.

ABBREVIATIONS					
@	AT	EVC	ELECTRIC WATER COOLER	OSD	OPEN SITE DRAIN
AAV	AIR ADMITTANCE VALVE	EWH	ELECTRIC WATER HEATER	PC	PRECAST
ABV	ABOVE	EXP	EXPANSION	PCF	POUNDS PER CUBIC FOOT
AC-X	AIR COMPRESSOR DESIGNATION	FD	FLOOR CLEANOUT	PD	PUMP DISCHARGE
ADJ	ADJUSTABLE	FOO	FLOOR CLEANOUT	PLUMB	PLUMBING
ADNL	ADDITIONAL	FD	FLOOR DRAIN	PLYWD	PLYWOOD
AF	ACCESS PANEL	FDC	FIRE DEPARTMENT CONNECTION	POLY	POLYETHYLENE
AFS	ABOVE FINISHED GRADE	FF	FINISHED FLOOR	PPT	PRESSURE PRESERVATIVE TREATED
AHU	AIR HANDLING UNIT	FFE	FINISHED FLOOR ELEVATION	PRFAB	PREFABRICATE(D)
ALT	ALTERNATE	FG	FINISHED GRADE	PROJ	PROJECT
ALUM	ALUMINUM	FH	FIRE HYDRANT	PSF	POUNDS PER SQUARE FOOT
AP	ACCESS PANEL	FHC	FIRE HOSE CABINET	PSI	POUNDS PER SQUARE INCH
APPR	APPROXIMATE	FHS	FIRE HOSE STATION	PV	PROPANE VENT
ARCH	ARCHITECTURAL	FHVC	FIRE HOSE VALVE CABINET	PVC	POLYVINYL CHLORIDE
AUTO	AUTOMATIC	FX	FIXTURE	PVMT	PAVEMENT
AVG	AVERAGE	FLR	FLOOR	R	RISER
BFF	BELOW FINISHED FLOOR	FLSHG	FLASHING	RAD	RADIUS
BFG	BELOW FINISHED GRADE	FOR	FUEL OIL RETURN	RD-X	RECIRCULATION PUMP DESIGNATION
BLDG	BUILDING	FOS	FUEL OIL SUPPLY	RO	ROUGH OPENING
BO	BOTTOM OF	FV	FUEL OIL VENT	RSD	ROUGH OPENING
BOT	BOTTOM	FSD	FLOOR SINK	REF	REFERENCE
BSMT	BASEMENT	FSD	FOUNDATION SUB-DRAIN	REQD	REQUIRED
BTWN	BETWEEN	FT	FOOT OR FEET	REOMT	REQUIREMENTS
CA	COMPRESSED AIR	FVC	FIRE VALVE CABINET	RL	RAIN LEADER
CI	CAST IRON	G	GAS	RM	ROOM
CP	CAST-IN-PLACE CONCRETE	GOD	GRADE CLEANOUT	RO	ROUGH OPENING
CL	CENTERLINE	GWH	GAS WATER HEATER	RV	RAVON VENT
CLG	CEILING	HB	HOSE BIBB	S	SOUTH
CLR	CLEAR	HORIZ	HORIZONTAL	SAN	SANITARY
CMP	CORRUGATED METAL PIPE	HP	HORSEPOWER	SCH	SCHEDULE
CNTR	COUNTERTOP	HR-X	HOSE REEL DESIGNATION	SD	STORM DRAINAGE PIPING
COL	COLUMN	HTG	HEATING	SDN	STORM DRAIN NOZZLE
CONC	CONCRETE	HW	HOT WATER	SFN	SQUARE FOOT/FEET
CONDS	CONDENSATE	HWR	HOT WATER RETURN	SF	SHEET
CONSTR	CONSTRUCTION	HWS	HOT WATER SUPPLY	SHT	SHEET
CONT	CONTINUATION	ID	INSIDE DIAMETER	SM	SIMILAR
CONTR	CONTRACT-(OR)	IN	INCH	SLT	SEALANT
CORR	CORRIDOR	INSUL	INSULATE OR INSULATION	SOG	SLAB ON GRADE
CP	CIRCULATING PUMP	INV	INVERT	SP	SUMP PUMP
CR	CLASSROOM	JAN	JANITOR	SPEC	SPECIFICATION
CT	COOLING TOWER	KIT	KITCHEN	SPR	SPRINKLER
CU	COPPER	KW	KITCHEN WASTE	SQ	SQUARE
CU FT	CUBIC FEET	LAB	LABORATORY	SRD	SECONDARY ROOF DRAIN
CU YD	CUBIC YARD	LAV	LAVATORY	SS	STAINLESS STEEL
CW	COLD WATER	LBS	POUNDS	SSD	SECONDARY STORM DRAINAGE PIPING
DB	DRY BULB	LFT	LINEAR FOOT (FEET)	STD	STANDARD
DCW	DOMESTIC COLD WATER	LP	PROPANE	STL	STEEL
DEMO	DEMOLISH OR DEMOLITION	LPV	PROPANE VENT	STOR	STORAGE
DF	DRINKING FOUNTAIN	MATL	MATERIAL	STRUCT	STRUCTURAL
DHR	DOMESTIC HOT WATER RETURN	MAX	MAXIMUM	SUSP	SUSPENDED
DHR(140)	DOMESTIC HOT WATER RETURN (140°)	MECH	MECHANICAL	TD	TRENCH DRAIN
DHW	DOMESTIC HOT WATER	MED	MEDIUM	THK	THICKNESS
DHW(140)	DOMESTIC HOT WATER (140°)	MFR	MANUFACTURER	TLT	TOILET
DI	DROP INLET	MH	MANHOLE	TMV	THERMOSTATIC MIXING VALVE
DIA	DIAMETER	MN	MINIMUM	TOSL	TOP OF SLAB
DIP	DUCTILE IRON PIPE	MISC	MISCELLANEOUS	TW	DOMESTIC TEMPERED WATER (90° F)
DN	DOWN	MTD	MOUNTED	TYP	TYPICAL
DR-X	COMPRESSED AIR DRYER DESIGNATION	N	NORTH	UG	UNDERGROUND
DS	DOWNSPOUT	N/A	NOT APPLICABLE/AVAILABLE	UNO	UNLESS NOTED (INDICATED) OTHERWISE
DT	DRAIN TILE	NC	NORMALLY CLOSED	V	VENT
DTL	DETAIL	NG	NATURAL GAS	VAC	VACUUM
DTW	DOMESTIC TEMPERED WATER	NGV	NATURAL GAS VENT	VB	VACUUM BREAKER
DWG	DRAWING	NIC	NOT IN CONTRACT	VERT	VERTICAL
DWP	DOMESTIC WATER BOOSTER PUMP	NO	NORMALLY OPEN	VTR	VENT THROUGH ROOF
E	EAST	NO, (#)	NUMBER	W	WEST
ED	EMERGENCY SECONDARY ROOF DRAIN	NOM	NOMINAL	W	WITHOUT
ELEC	ELECTRICAL	OC	ON CENTER	WB	WATER HAMMER ARRESTER
ELEV	ELEVATION	OD	OUTSIDE DIAMETER	WC	WATER CLOSET
EFSD	ELECTRICAL PANELBOARD	OPCI	OWNER FURNISHED CONTRACTOR INSTALLED	WCO	WALL CLEANOUT
EQ	EQUAL	OFF	OFFICE	WSP	WATER SOURCE HEAT PUMP
EQUIP	EQUIPMENT	OH	OVERHEAD	WWF	WELDED WIRE FABRIC
ETR	EXISTING TO REMAIN	OPNG	OPENING	WWM	WELDED WIRE MESH
		OPP	OPPOSITE	XFMR	TRANSFORMER



GENERAL NOTES	
A.	THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.
B.	COORDINATE PIPING LOCATIONS AND INSTALLATION WITH EACH TRADE TO AVOID CONFLICTS WITH OTHER TRADES.
C.	PROVIDE FLOOR CLEANOUTS INDICATED FLUSH WITH FLOOR FINISHES.
D.	PROVIDE CLEANOUTS WHERE INDICATED AND ADDITIONAL CLEANOUTS AS REQUIRED BY LOCAL CODE.
E.	REFER TO DRAWINGS FROM EACH DISCIPLINE BEFORE ROUGHING-IN PLUMBING FIXTURES.
F.	OBTAIN DIMENSIONS AND ROUTING IN FIELD BEFORE INSTALLATION OF PLUMBING AND FIXTURES.
G.	INSTALL ALL DRAINAGE PATTERN FITTINGS AND PIPING IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL CODES.
H.	REFER TO STRUCTURAL DRAWINGS FOR DETAILS AND MAXIMUM SPACING REQUIREMENTS REGARDING HANGER ATTACHMENTS TO STEEL BAR JOISTS.
I.	PROVIDE ISOLATION VALVES IN ACCORDANCE WITH DIAGRAMS, DETAILS, AND DIVISION 22 SPECIFICATIONS.
J.	ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE 2018 NORTH CAROLINA PLUMBING CODE.

MOSELEY ARCHITECTS
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ALDERMAN AND KING HALL RENOVATIONS - KING HALL
 University of North Carolina Wilmington
 SCOR#22-24639-01A
 601 Hamilton Drive, Wilmington, NC 28403

PROJECT NO.	DATE	REVISIONS
620589	FEBRUARY 10, 2023	

DATE	DESCRIPTION

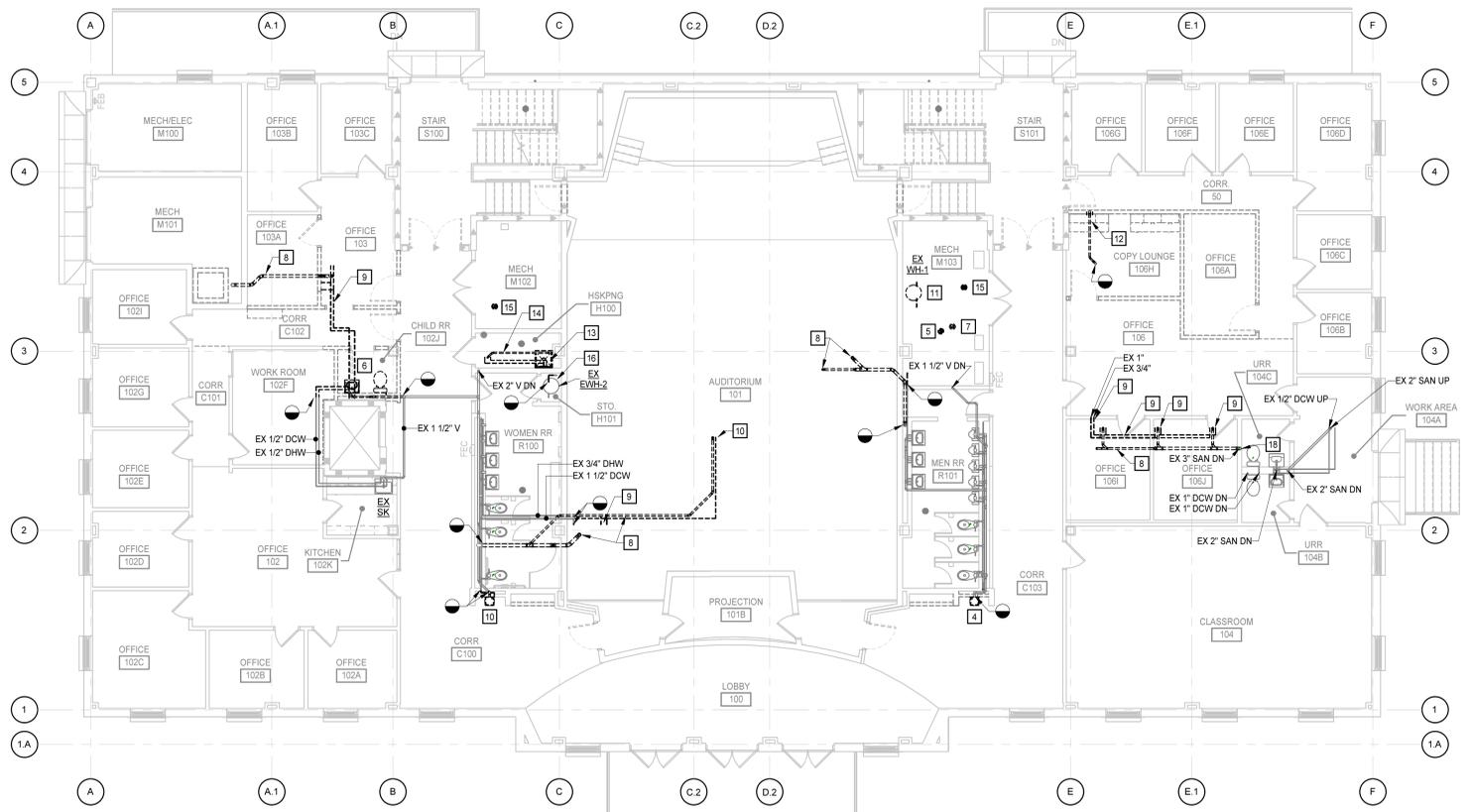
LEGENDS,
 ABBREVIATIONS AND
 GENERAL NOTES

P0.1

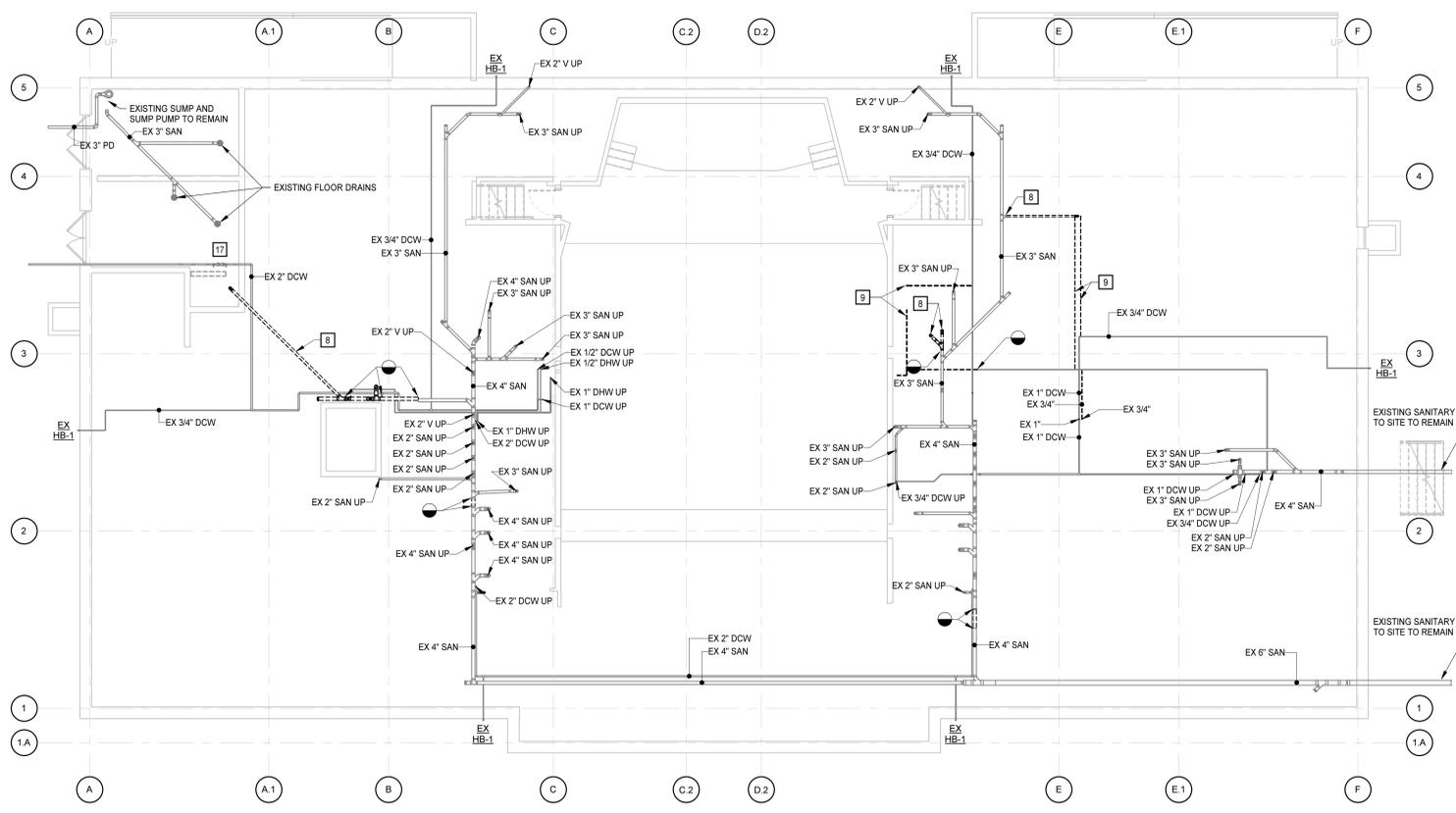


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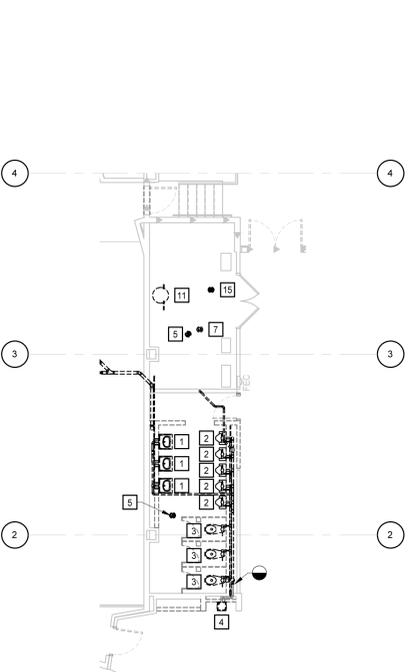
- KEYNOTES**
 APPLIES TO THIS DRAWING
 REPRESENTED BY [n]
- REMOVE LAVATORY AND ALL ASSOCIATED PIPING, FITTINGS, AND ACCESSORIES COMPLETE BACK TO EXTENT INDICATED AND PREPARE FOR NEW CONNECTION.
 - REMOVE URINAL AND ALL ASSOCIATED PIPING, FITTINGS, AND ACCESSORIES COMPLETE BACK TO EXTENT INDICATED AND PREPARE FOR NEW CONNECTION.
 - REMOVE WATER CLOSET AND ALL ASSOCIATED PIPING, FITTINGS, AND ACCESSORIES COMPLETE BACK TO EXTENT INDICATED AND PREPARE FOR NEW CONNECTION.
 - REMOVE WATER FOUNTAIN AND ALL ASSOCIATED PIPING, FITTINGS, AND ACCESSORIES COMPLETE BACK TO EXTENT INDICATED AND PREPARE FOR NEW CONNECTION.
 - REMOVE FLOOR DRAIN AND ALL ASSOCIATED PIPING, FITTINGS, AND ACCESSORIES COMPLETE BACK TO EXTENT INDICATED AND PREPARE FOR NEW CONNECTION.
 - REMOVE ALL BATHROOM FIXTURES AND ALL ASSOCIATED PIPING, FITTINGS, AND ACCESSORIES COMPLETE BACK TO EXTENT INDICATED AND PREPARE FOR NEW CONNECTION.
 - REMOVE FLOOR CLEANOUT AND ALL ASSOCIATED PIPING, FITTINGS, AND ACCESSORIES COMPLETE BACK TO EXTENT INDICATED AND PREPARE FOR NEW CONNECTION. INFILL FLOOR OPENING.
 - REMOVE SANITARYVENT AND ALL ASSOCIATED PIPING, FITTINGS, AND ACCESSORIES COMPLETE BACK TO EXTENT INDICATED AND PREPARE FOR NEW CONNECTION. INFILL WALL AND FLOOR OPENINGS.
 - REMOVE DOMESTIC COLD AND HOT WATER PIPING AND ALL ASSOCIATED PIPING, FITTINGS, AND ACCESSORIES COMPLETE BACK TO EXTENT INDICATED AND PREPARE FOR NEW CONNECTION. INFILL WALL AND FLOOR OPENINGS.
 - REMOVE WATER FOUNTAIN AND ALL ASSOCIATED PIPING, FITTINGS, AND ACCESSORIES COMPLETE BACK TO EXTENT INDICATED AND PREPARE FOR NEW CONNECTION.
 - REMOVE ELECTRIC WATER HEATER AND ALL ASSOCIATED PIPING, FITTINGS, AND ACCESSORIES COMPLETE BACK TO EXTENT INDICATED AND PREPARE FOR NEW CONNECTION.
 - REMOVE KITCHENETTE SINK AND ALL ASSOCIATED PIPING, FITTINGS, AND ACCESSORIES COMPLETE BACK TO EXTENT INDICATED AND PREPARE FOR NEW CONNECTION.
 - REMOVE MOP SINK AND ALL ASSOCIATED PIPING, FITTINGS, AND ACCESSORIES COMPLETE BACK TO EXTENT INDICATED AND PREPARE FOR NEW CONNECTION. INFILL WALL AND FLOOR OPENINGS.
 - REMOVE INDIRECT WASTE PIPING FROM SINK ABOVE.
 - REMOVE EXISTING FLOOR DRAIN COMPLETE INCLUDING GRATE AND DRAIN BODY. PREPARE PIPING FOR NEW CONNECTION.
 - REMOVE PIPING AS REQUIRED TO INSTALL NEW MIXING VALVE AND RECIRCULATION PUMP.
 - TEMPORARILY REMOVE AND RE-INSTALL BACKFLOW PREVENTOR AND ASSOCIATED PIPING TO ALLOW FOR REMOVAL OF CHIMNEY OR PROTECT EXISTING PIPING AND BACKFLOW PREVENTOR IN PLACE.
 - REMOVE SANITARY AND ALL ASSOCIATED PIPING, FITTINGS, AND ACCESSORIES COMPLETE BACK TO EXTENT INDICATED. INFILL WALL AND FLOOR OPENINGS. CAP SANITARY IN WALL.



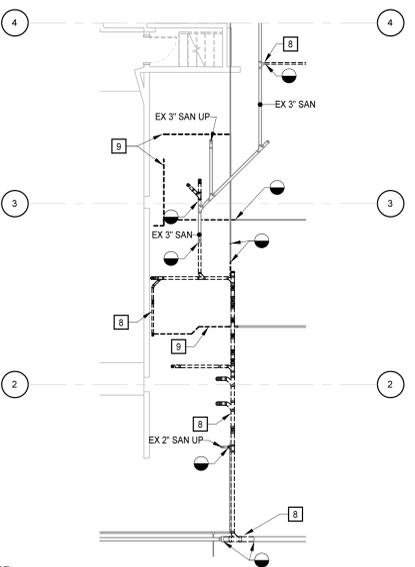
FIRST FLOOR PLAN - DEMOLITION
 1/8" = 1'-0"



CRAWL SPACE PLAN - DEMOLITION
 1/8" = 1'-0"



FIRST FLOOR PLAN - DEMOLITION - ALTERNATE #8
 1/8" = 1'-0"



CRAWL SPACE PLAN - DEMOLITION - ALTERNATE #8
 1/8" = 1'-0"

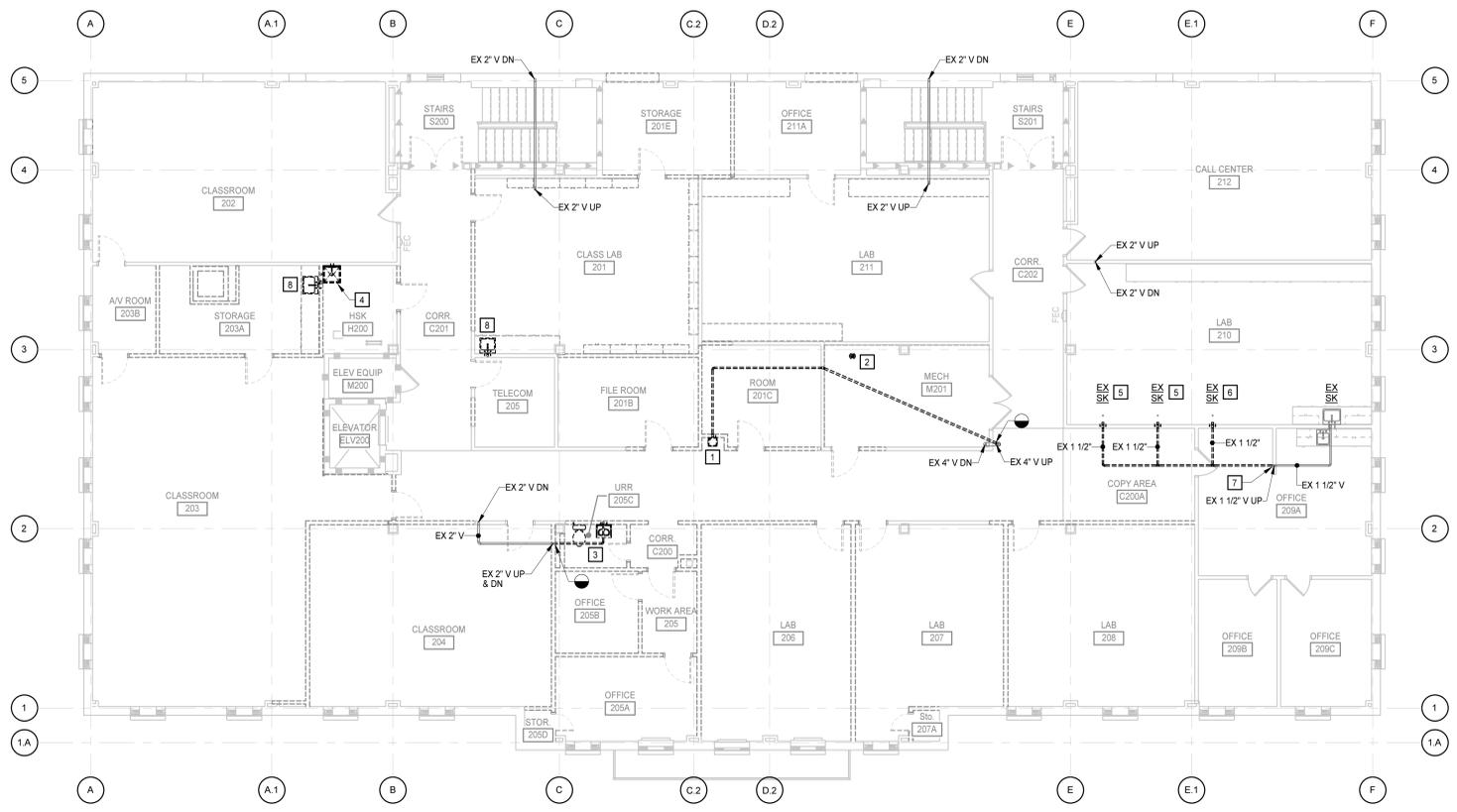


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SECOND FLOOR PLAN - DEMOLITION

1/8" = 1'-0"



KEYNOTES

APPLIES TO THIS DRAWING
REPRESENTED BY [n]

- 1 REMOVE WATER FOUNTAIN AND ALL ASSOCIATED PIPING, FITTINGS, AND ACCESSORIES COMPLETE BACK TO EXTENT INDICATED AND PREPARE FOR NEW CONNECTION.
- 2 REMOVE FLOOR DRAIN AND ALL ASSOCIATED PIPING, FITTINGS, AND ACCESSORIES COMPLETE BACK TO EXTENT INDICATED AND PREPARE FOR NEW CONNECTION.
- 3 REMOVE ALL BATHROOM FIXTURES AND ALL ASSOCIATED PIPING, FITTINGS, AND ACCESSORIES COMPLETE BACK TO EXTENT INDICATED AND PREPARE FOR NEW CONNECTION.
- 4 REMOVE MOP SINK AND ALL ASSOCIATED PIPING, FITTINGS, AND ACCESSORIES COMPLETE BACK TO EXTENT INDICATED AND PREPARE FOR NEW CONNECTION. INFILL WALL AND FLOOR OPENINGS.
- 5 REMOVE SINK AND SEDIMENT TRAPS AND TURN OVER TO OWNER. REMOVE ALL ASSOCIATED PIPING, FITTINGS, AND ACCESSORIES COMPLETE BACK TO EXTENT INDICATED AND PREPARE FOR NEW CONNECTION. INFILL WALL AND FLOOR OPENINGS.
- 6 REMOVE SINK, EYEWASH AND SEDIMENT TRAPS AND TURN OVER TO OWNER. REMOVE ALL ASSOCIATED PIPING, FITTINGS, AND ACCESSORIES COMPLETE BACK TO EXTENT INDICATED AND PREPARE FOR NEW CONNECTION. INFILL WALL AND FLOOR OPENINGS.
- 7 REMOVE VENT BACK TO VERTICAL AND CAP.
- 8 REMOVE SINK AND ALL ASSOCIATED PIPING, FITTINGS, AND ACCESSORIES COMPLETE BACK TO EXTENT INDICATED AND PREPARE FOR NEW CONNECTION. INFILL WALL AND FLOOR OPENINGS.

MOSELEYARCHITECTS

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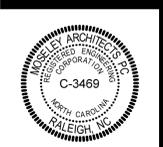
ALDERMAN AND KING HALL RENOVATIONS - KING HALL

University of North Carolina Wilmington
SC0#22-24639-01A
601 Hamilton Drive, Wilmington, NC 28403

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DEMOLITION PLANS - SECOND FLOOR

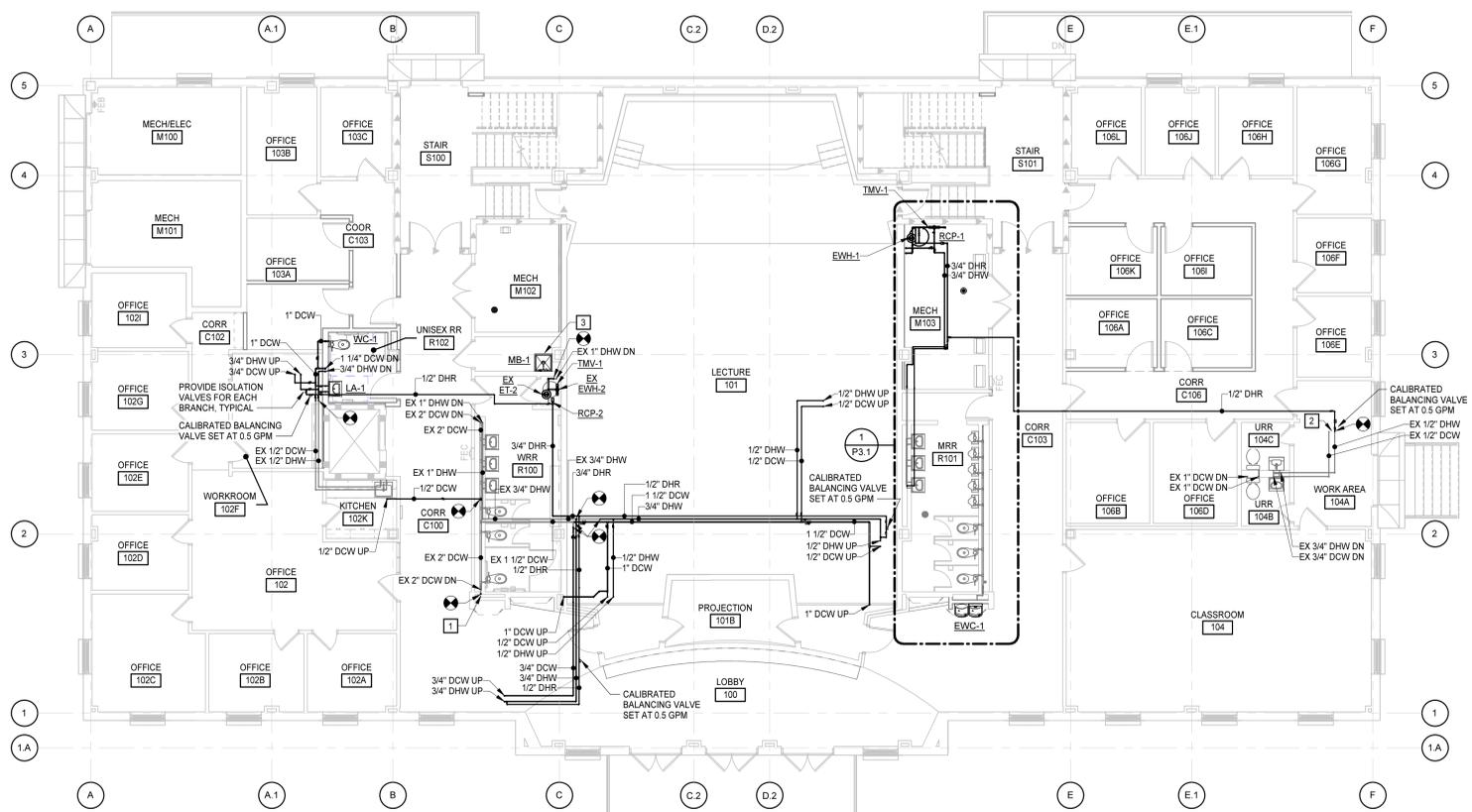




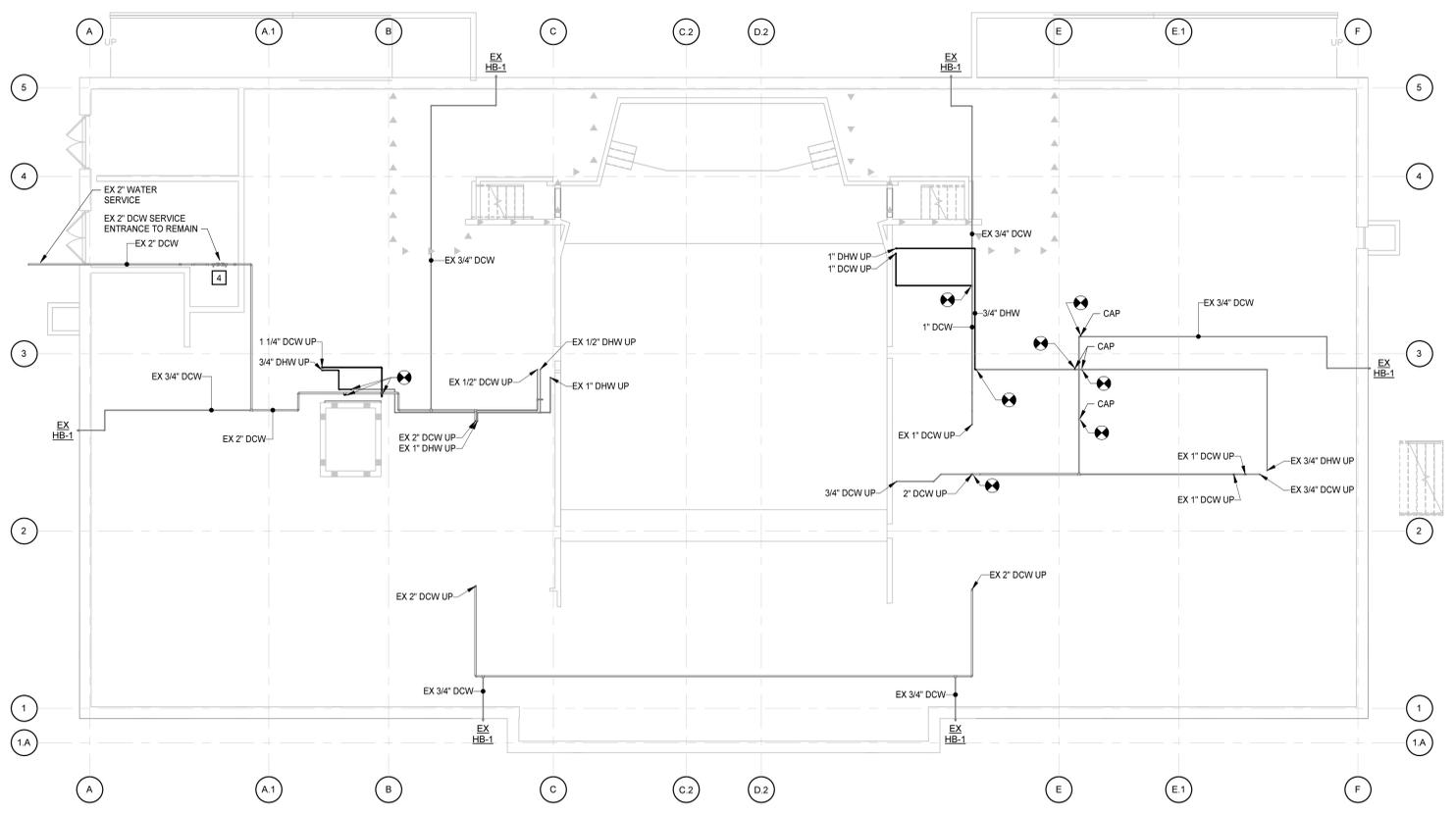
PROJECT NO.	DATE	REVISIONS
620589	FEBRUARY 10, 2023	

DATE	DESCRIPTION

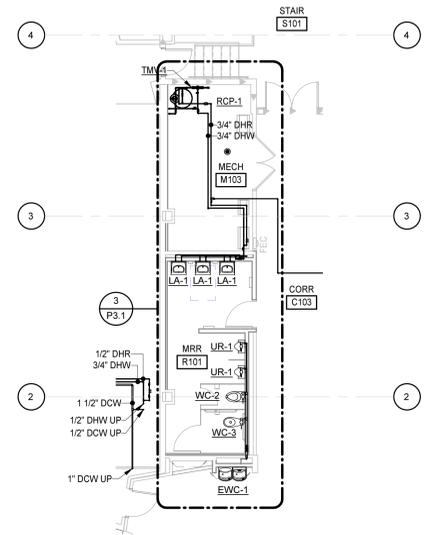
- KEYNOTES**
 APPLIES TO THIS DRAWING
 REPRESENTED BY [n]
1. CAP DOMESTIC COLD WATER AT WALL.
 2. EXISTING 1/2" DCW & DHW UP TO SECOND FLOOR.
 3. PROVIDE NEW PIPING INSULATION ON MOP BASIN DOMESTIC HOT WATER AND COLD WATER RUNOUTS BACK TO MAIN.
 4. TEMPORARILY REMOVE AND RE-INSTALL BACKFLOW PREVENTOR AND ASSOCIATED PIPING TO ALLOW FOR REMOVAL OF CHIMNEY OR PROTECT EXISTING PIPING AND BACKFLOW PREVENTOR IN PLACE.



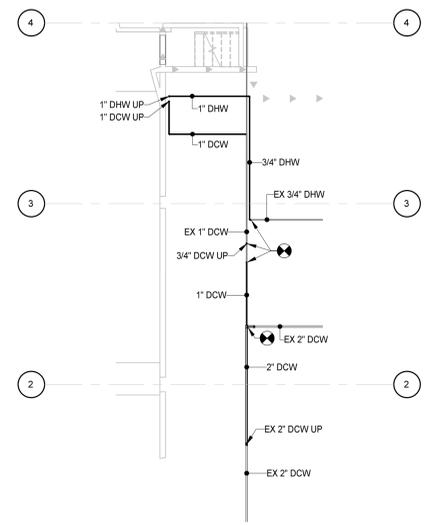
FIRST FLOOR PLAN - DOMESTIC
 1/8" = 1'-0"



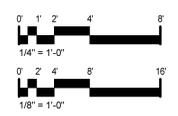
CRAWL SPACE PLAN - DOMESTIC
 1/8" = 1'-0"

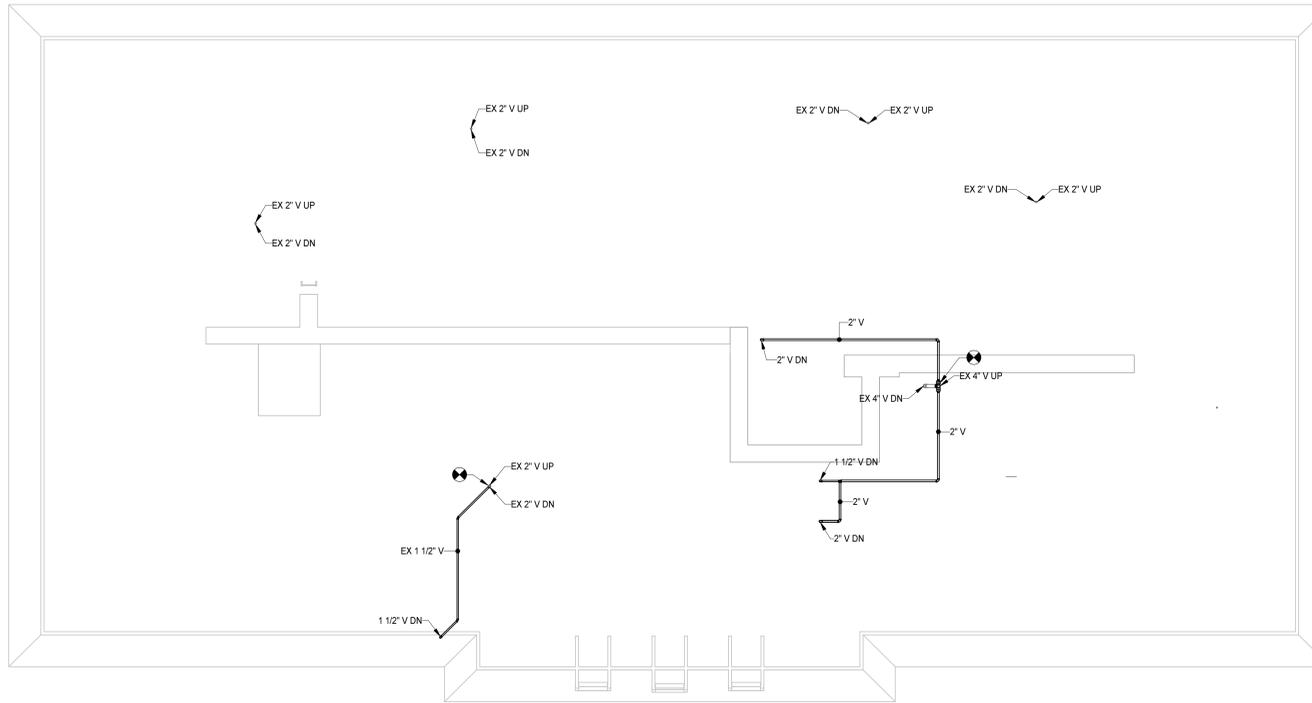


FIRST FLOOR PLAN - DOMESTIC - ALTERNATE #8
 1/8" = 1'-0"



CRAWL SPACE PLAN - DOMESTIC - ALTERNATE #8
 1/8" = 1'-0"

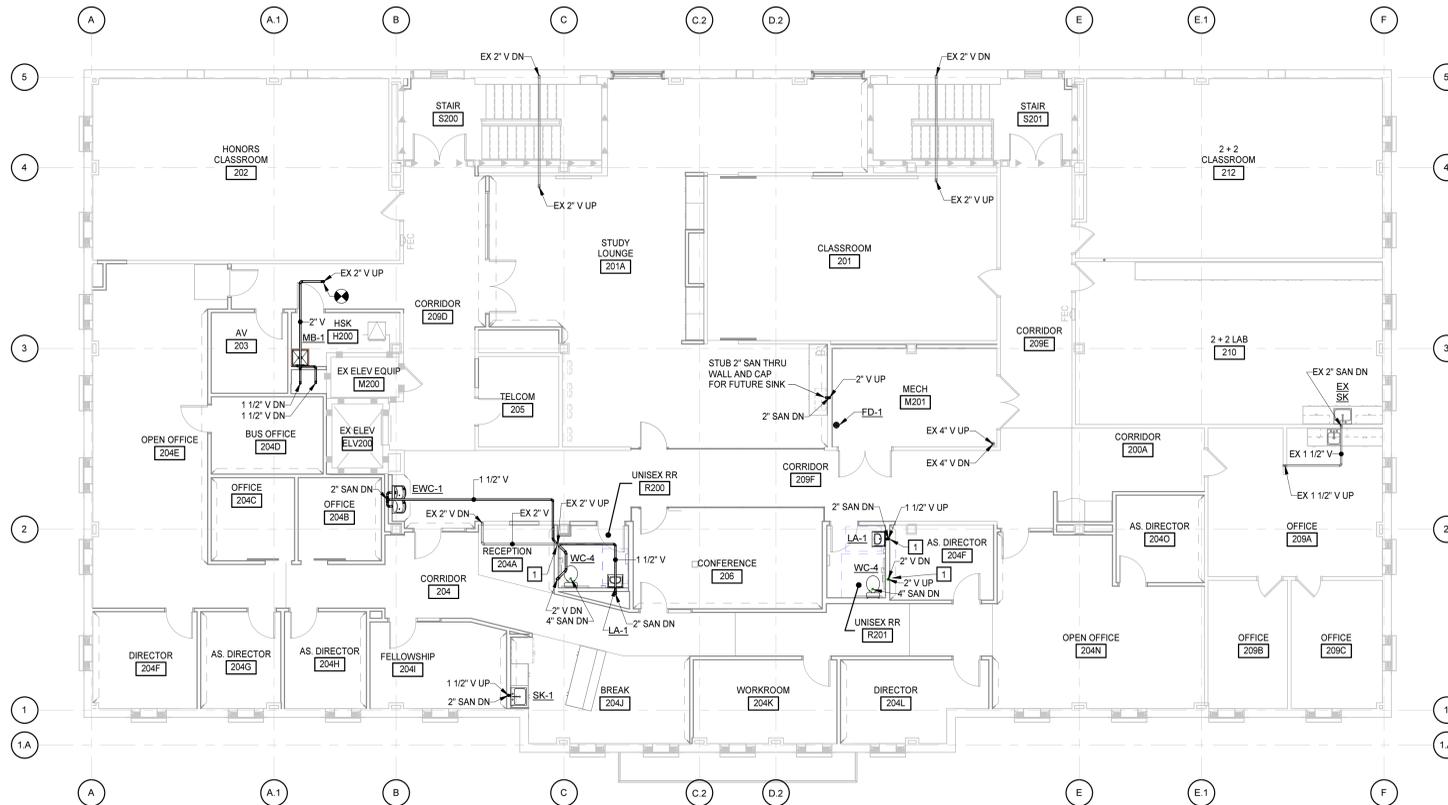




KEYNOTES
 APPLIES TO THIS DRAWING
 REPRESENTED BY [n]

1. PROVIDE NEOPRENE PIPE CLAMPS FOR ALL SANITARY AND VENT PIPING WITHIN SHARED BATHROOM WALL TO ISOLATE PIPE VIBRATIONS FROM WALL FRAMING.

PROJECT
 N
 POLAR
ATTIC PLAN - SANITARY
 1/8" = 1'-0"

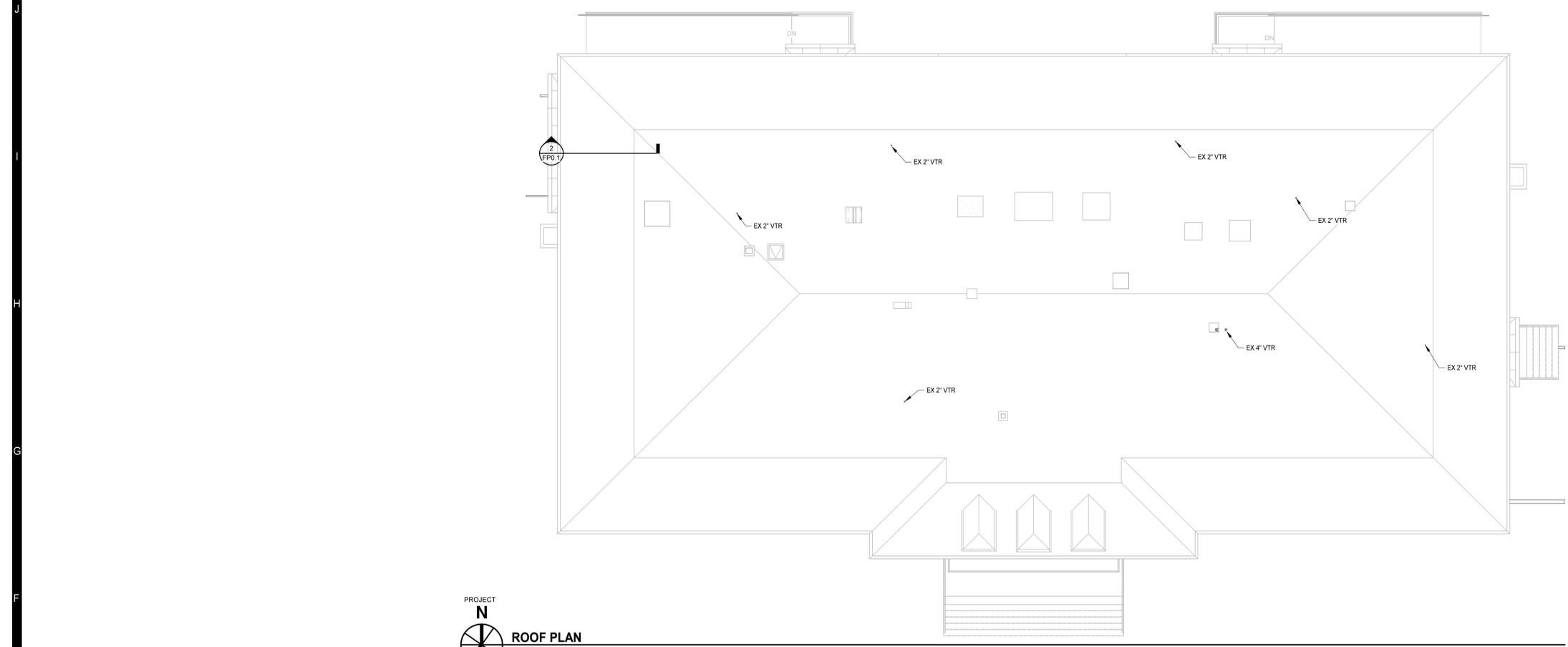


PROJECT
 N
 POLAR
SECOND FLOOR PLAN - SANITARY
 1/8" = 1'-0"

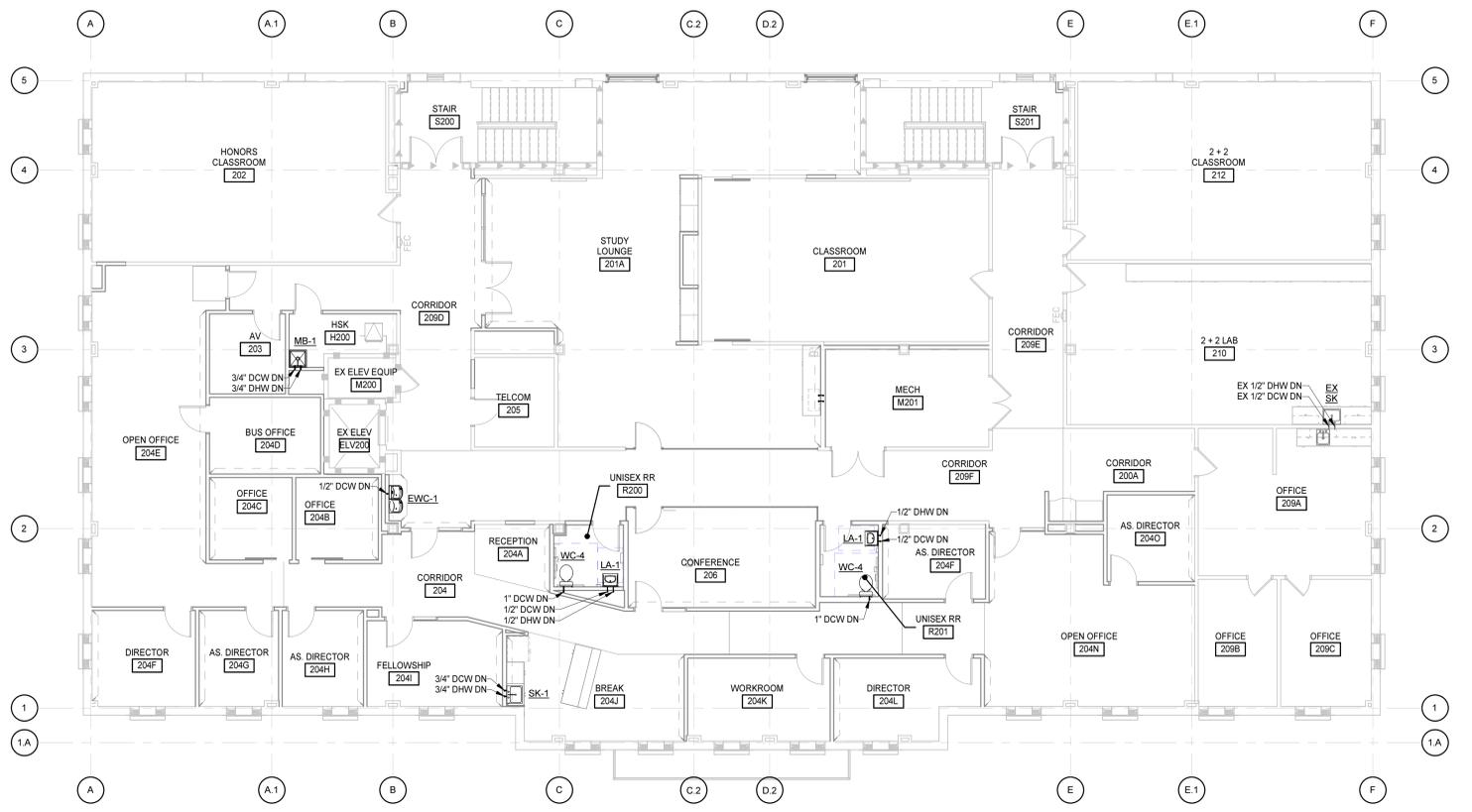


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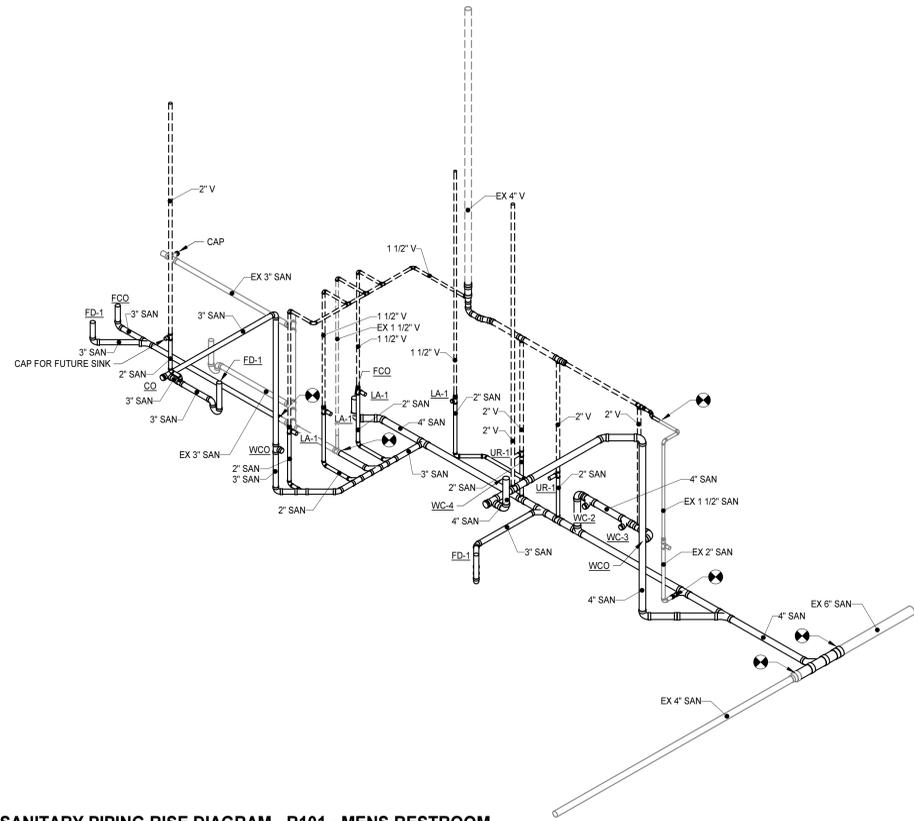
PROJECT
 N
 POLAR
ROOF PLAN
 1/8" = 1'-0"



PROJECT
 N
 POLAR
SECOND FLOOR PLAN - DOMESTIC
 1/8" = 1'-0"

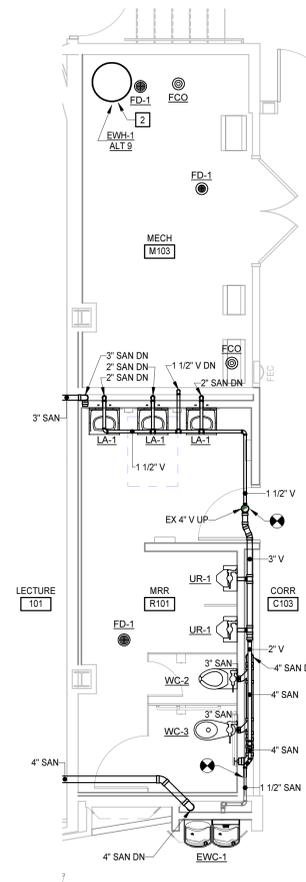


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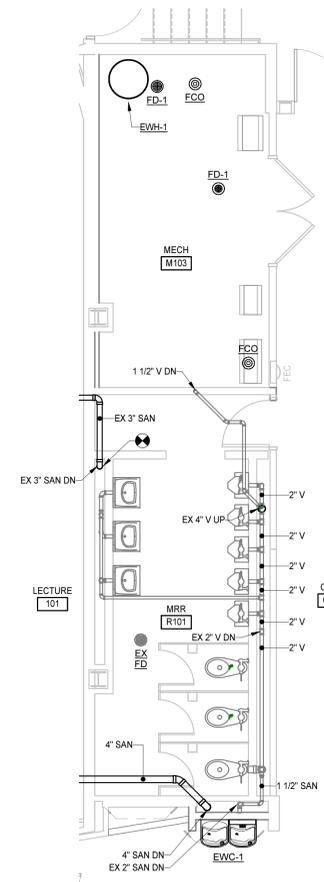
SANITARY PIPING RISE DIAGRAM - R101 - MENS RESTROOM - ALTERNATE #8

NO SCALE



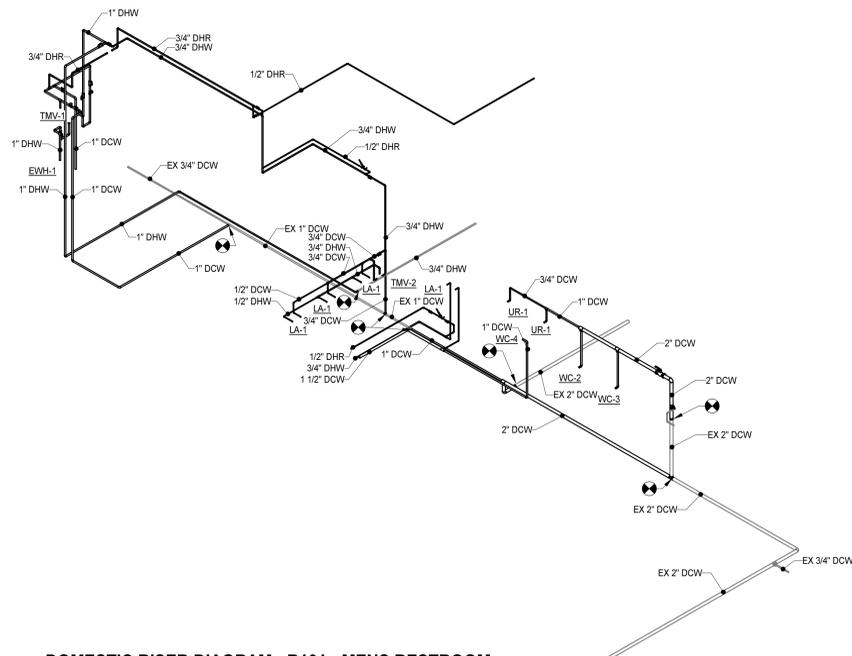
ENLARGED PLAN - R101 - MENS RESTROOM - SANITARY - ALTERNATE #8

NO SCALE



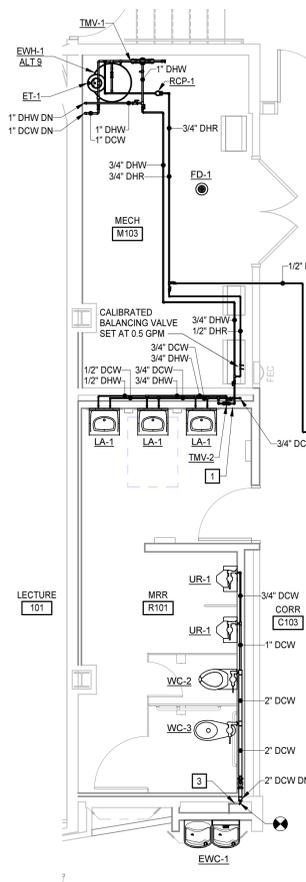
ENLARGED PLAN - R101 - MENS RESTROOM - SANITARY - BASE BID

NO SCALE



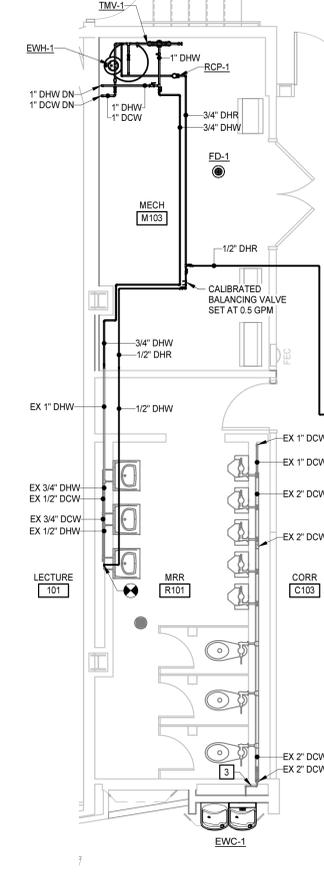
DOMESTIC RISER DIAGRAM - R101 - MENS RESTROOM - ALTERNATE #8

NO SCALE



ENLARGED PLAN - R101 - MENS RESTROOM - DOMESTIC - ALTERNATE #8

NO SCALE



ENLARGED PLAN - R101 - MENS RESTROOM - DOMESTIC - BASE BID

NO SCALE

- KEYNOTES**
 APPLIES TO THIS DRAWING
 REPRESENTED BY [n]
- 1 PROVIDE DOMESTIC COLD WATER ISOLATION BALL VALVE FOR BATHROOM GROUP. PROVIDE ACCESS PANEL IN WALL FOR ACCESS.
 - 2 IF ALTERNATE #8 IS ACCEPTED, PROVIDE CONDENSATE DRAIN FROM WATER HEATER HEAT PUMP AND DISCHARGE TO NEAREST FLOOR DRAIN.
 - 3 PROVIDE NEW SHUT-OFF BALL VALVE FOR EWC-1. LOCATE VALVE UNDER EWC-1 AND PROVIDE ACCESS DOOR.

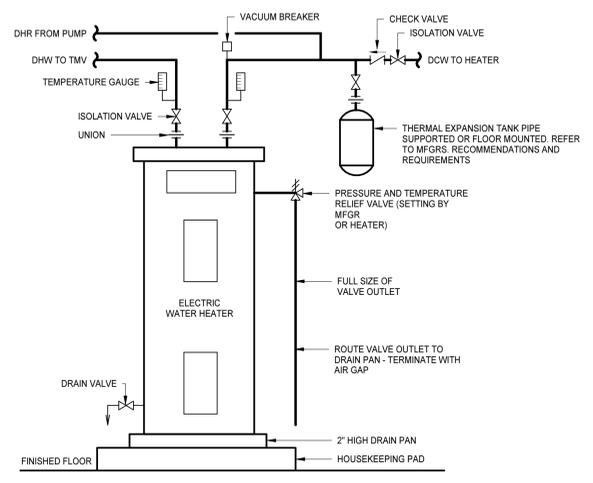


DATE	REVISIONS	DESCRIPTION
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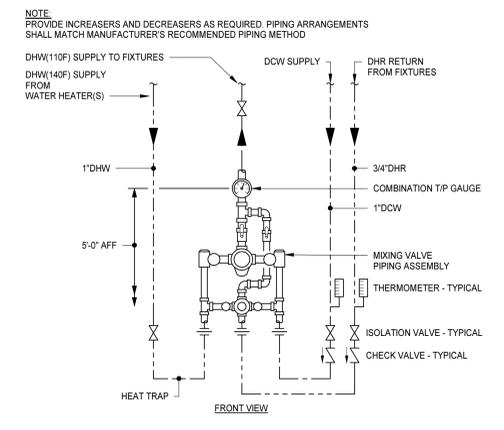




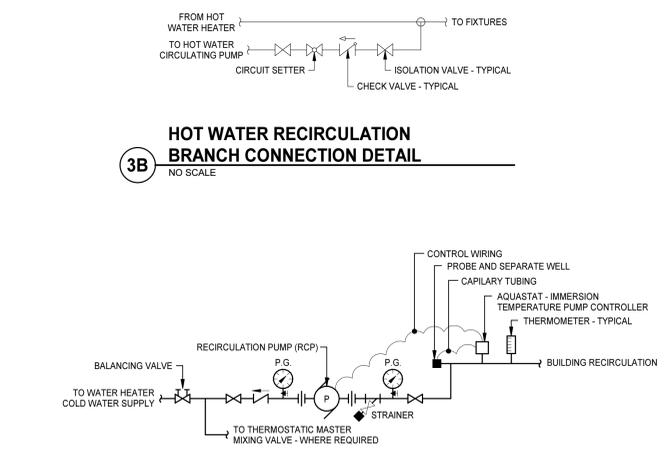
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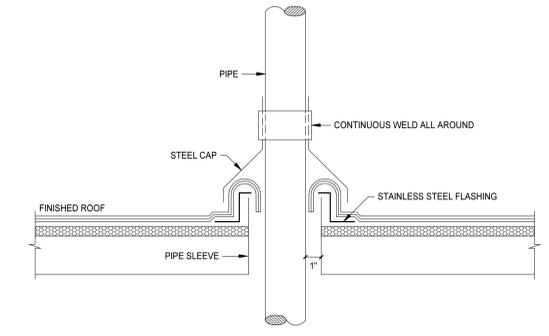
1 FLOOR MOUNTED ELECTRIC WATER HEATER DETAIL
 NO SCALE



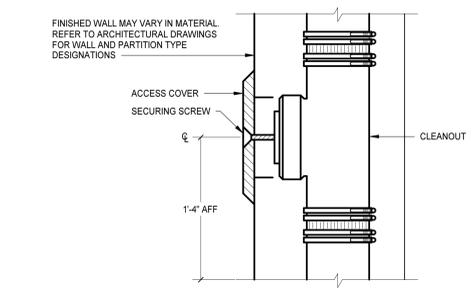
2 THERMOSTATIC MIXING VALVE DETAIL
 NO SCALE



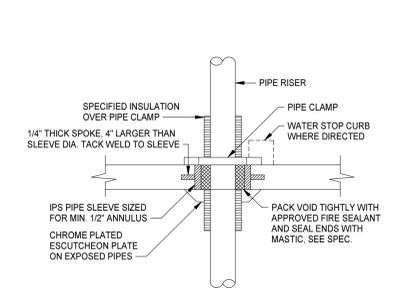
3A HOT WATER RECIRCULATION BRANCH CONNECTION DETAIL
 NO SCALE



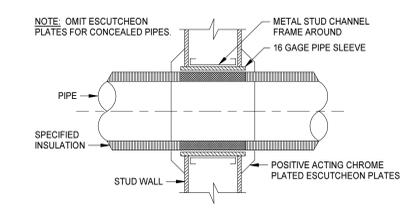
4 UNINSULATED PIPE THRU ROOF DETAIL
 NO SCALE



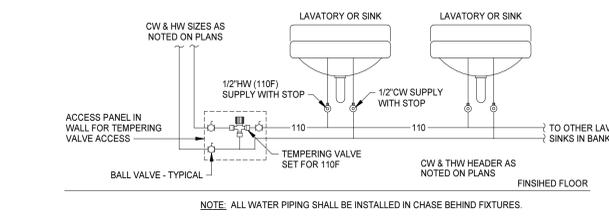
5 WALL CLEANOUT DETAIL
 NO SCALE



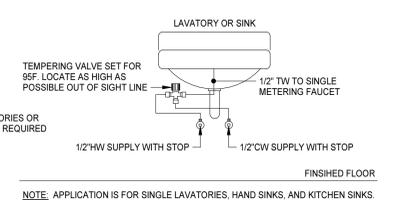
6 PIPE THRU FLOOR SLAB DETAIL
 NO SCALE



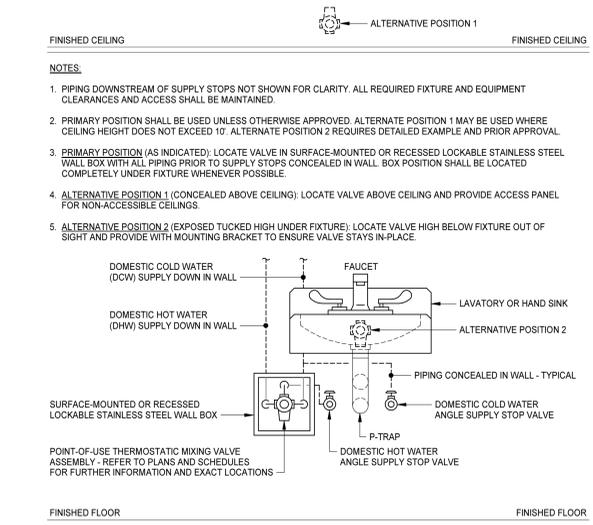
7 PIPE THRU STUD WALL DETAIL
 NO SCALE



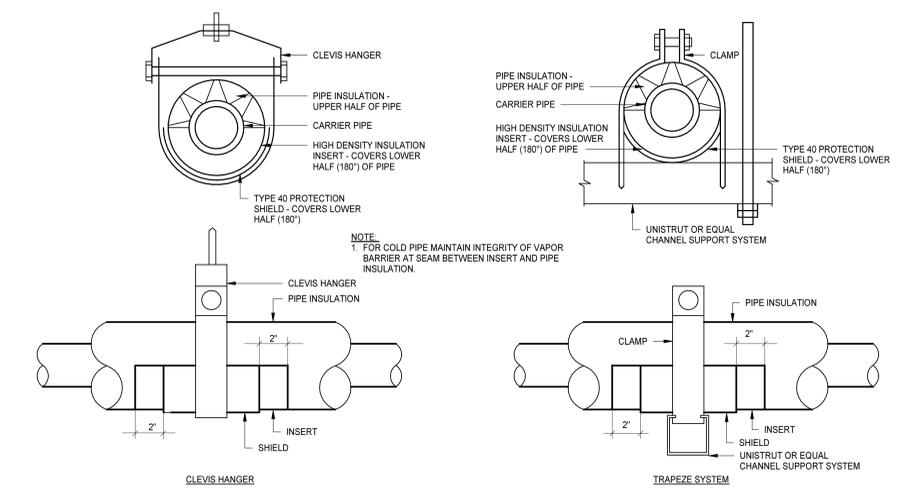
8 LAVATORY SUPPLY DETAIL
 NO SCALE



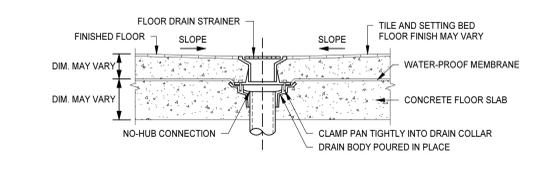
NOTE: APPLICATION IS FOR SINGLE LAVATORIES, HAND SINKS, AND KITCHEN SINKS.



9 ASSE-1070 POINT-OF-USE VALVE DETAIL
 NO SCALE



10 PIPE SUPPORT AND THERMAL SHIELD DETAILS
 NO SCALE



11 FLOOR DRAIN IN OPEN AREA DETAIL
 NO SCALE

PUMP SCHEDULE																
TAG	BASIS OF DESIGN		LOCATION	SYSTEM TYPE	PUMP TYPE	OPERATING DATA				ELECTRICAL DATA		CONNECTION SIZE		NOTES		
	MANUFACTURER	MODEL				FLOW (GPM)	PRESSURE (FT)	EFFICIENCY	POWER (HP)	SPEED (RPM)	VOLTS	PHASE	HERTZ		INLET (IN)	OUTLET (IN)
RCP-1	TACO	007e ECM	M103-MECH	DHW	CIRCULATION	1.0	8	86	.025	3250	120	1	60	1/2"	1/2"	1
RCP-2	TACO	007e ECM	R100-WRR	DHW	CIRCULATION	1.5	8	86	.025	3250	120	1	60	1/2"	1/2"	1

1. PROVIDE ECM-CONTROLLED RECIRCULATION PUMP WITH INTEGRAL TEMPERATURE AND PRESSURE SENSORS AND LOGIC. UNIT SHALL BE FULLY ADJUSTABLE FOR VARYING FIELD CONDITIONS.

THERMOSTATIC MIXING VALVE SCHEDULE											
TAG	BASIS OF DESIGN		DESIGN FLOW (GPM)	FLOW RANGE (GPM)	MAX P. D. AT DESIGN FLOW (PSI)	HW SYSTEM TEMPERATURES		CONNECTION SIZE		NOTES	
	MANUFACTURER	MODEL				INLET (°F)	OUTLET (°F)	INLET (IN)	OUTLET (IN)		
TMV-1	POWERS	LFSH1484-1	5	1-12"	5	140	110	1 1/4"	1 1/2"	1	
TMV-2	POWERS	LFLM465-1	2	0.5-2"	5	110	105	3/4"	3/4"	2	

1. PROVIDE THERMOSTATIC MIXING VALVE ASSEMBLY WITH STAINLESS STEEL WALL-MOUNTED CABINET AND TIP GAUGES ON INLETS AND OUTLET.
2. PROVIDE ASSE-1070 VALVE FOR ALL PUBLIC LAVATORIES AND SINKS. UNIT SHALL BE MOUNTED CONCEALED FROM VIEW BELOW FIXTURE.

PLUMBING FIXTURE SCHEDULE											
TAG	FIXTURE	HEIGHT A.F.F.	BASIS OF DESIGN	PIPE SIZE				NOTES			
				COLD WATER	TEPID WATER	HOT WATER	VENT		SOIL WASTE		
EW-1	B-LEVEL WATER COOLER W/ BOTTLE FILLER (ACCESSIBLE)	TOP OF BUBBLER AT 36", LOWER AT 34"	FIXTURE: KOHLER K-2005 FAUCET: CHICAGO 802-E70-317XKABCP	1/2"			1 1/2"	1 1/2"	1		
LA-1	WALL-HUNG LAVATORY (ACCESSIBLE)	RIM AT 34"	FIXTURE: KOHLER K-2005 FAUCET: CHICAGO 802-E70-317XKABCP	1/2"		1/2"	1 1/2"	1 1/2"	1, 3		
MB-1	MOP SINK	RIM AT 12"	FIXTURE: FIAT T883001 FAUCET: CHICAGO 852-52CP	1/2"		1/2"	2 1/2"	3"	4		
SK-1	KITCHENETTE SINK - SINGLE BOWL (ACCESSIBLE)	COUNTER MOUNTED REFER TO ARCH DRAWINGS	FIXTURE: ELKAY LRAD0221955 FAUCET: CHICAGO 1100-317XKABCP	1/2"		1/2"	1 1/2"	1 1/2"	1		
UR-1	URINAL	RIM AT 24"	FIXTURE: ZURNZ515-L VALVE: SLOAN 189-0.5	3/4"			2"	2"	2		
WC-1	FLOOR MOUNTED WATER CLOSET (ACCESSIBLE)	TOP OF SEAT 17"	FIXTURE: ZURNZ515-BWL1 VALVE: SLOAN REGAL 111 SEAT: CHURCH 8500SSCT	1"			2"	4"	1, 2		
WC-2	WALL MOUNTED WATER CLOSET	TOP OF SEAT 15"	FIXTURE: ZURNZ515-BWL-AM VALVE: SLOAN REGAL 111 SEAT: CHURCH 8500SSCT	1"			2"	4"	2		
WC-3	WALL MOUNTED WATER CLOSET (ACCESSIBLE)	TOP OF SEAT 17"	FIXTURE: ZURNZ515-BWL-AM VALVE: SLOAN REGAL 111 SEAT: CHURCH 8500SSCT	1"			2"	4"	1, 2		
WC-4	FLOOR MOUNTED WATER CLOSET (ACCESSIBLE)	TOP OF SEAT 17"	FIXTURE: ZURNZ515-BWL-AM VALVE: SLOAN REGAL 111 SEAT: CHURCH 8500SSCT	1/2"			2"	4"	1, 2		

1. THIS ACCESSIBLE FIXTURE, ACCESSORIES, AND INSTALLATION SHALL CONFORM TO THE NCBC AND ASAD ADA STANDARDS FOR ACCESSIBLE DESIGN.
2. LOCATE FLUSH ACTUATORS ON WIDE SIDE OF STALLS OR APPROACH AREAS.
3. PROVIDE ASSE-1070 CERTIFIED MIXING VALVE IN STAINLESS STEEL WALL CABINET ABOVE CEILING, OR BELOW FIXTURE ACCESSIBLE BUT CONCEALED FROM VIEW.
4. PROVIDE A SEPARATE INDIVIDUAL FAUCET FOR BOTH COLD WATER AND HOT WATER.

DRAIN AND CLEANOUT SCHEDULE				
TAG	BASIS OF DESIGN		STRAINER/GRATE	NOTES
	MANUFACTURER	MODEL		
EX FD	EXISTING	EXISTING		1
FCO	JOSAM	55000-1-VP	FLOOR CLEANOUT	
FD-1	JOSAM	30000-6A-49	6" ROUND	2
WCO	JOSAM	58910-19	WALL CLEANOUT	

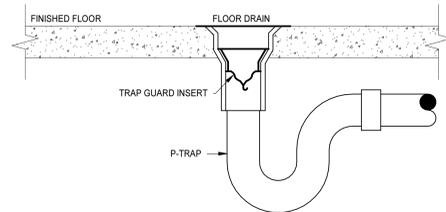
1. DRAIN IS EXISTING TO REMAIN. PROVIDE NEW IN-LINE TRAP SEAL. SEE DETAIL.
2. PROVIDE IN-LINE TRAP SEAL. SEE DETAIL.

ELECTRIC WATER HEATER SCHEDULE												
TAG	BASIS OF DESIGN		LOCATION	CAPACITY (GALLONS)	RECOVERY RATE (GPH)	TEMPERATURE RISE (°F)	TEMPERATURE SETTING (°F)	ELECTRICAL DATA				NOTES
	MANUFACTURER	MODEL						INPUT RATE (kW)	VOLTAGE	PHASE	HERTZ	
EWH-1	A.O. SMITH	DEL-50	M103-MECH	50	24	100	140	6.00	208	1	60	1
EWH-1 ALT 9	A.O. SMITH	HPTL-50CTA	M103-MECH	50	24	100	140	4.50	208	1	60	3
EX EWH-2	RHEEM	PROE36	H101-STO	36	21	100	140	3.38	208	1	60	2

1. KW INPUT RATE FOR ELECTRIC WATER HEATERS BASED ON FULL LOAD SIMULTANEOUS OPERATION. PROVIDE ELECTRIC RESISTANCE ONLY WATER HEATER UNDER BASE BID.
2. WATER HEATER IS EXISTING TO REMAIN. INFORMATION SHOWN FOR INFORMATIONAL PURPOSES ONLY.
3. IF ADD ALTERNATE #9 IS ACCEPTED, PROVIDE HEAT PUMP WATER HEATER.

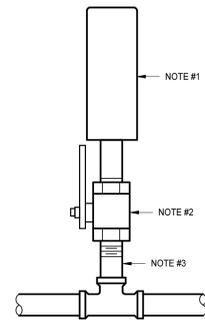
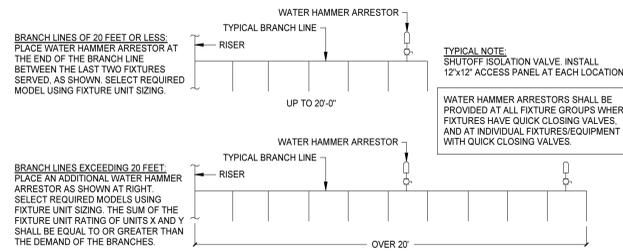
TANK SCHEDULE												
TAG	BASIS OF DESIGN		LOCATION	SYSTEM TYPE	TANK TYPE	OPERATING DATA			ASME CODE CONSTRUCTION (YES / NO)	CONNECTION SIZE		NOTES
	MANUFACTURER	MODEL				CAPACITY (GAL)	ACCEPTANCE (GAL)	AIR PRE-CHARGE PRESSURE (PSI)		INLET (IN)	OUTLET (IN)	
ET-1	BELL & GOSSETT	PTA-5	M103-MECH	DHW	EXPANSION	3.5	2.3	45	YES	3/4"	3/4"	1
EX ET-2	APOLLO	40X1-04	H101-STO	DHW	EXPANSION	2.1	0.9	45	YES	3/4"	3/4"	1

1. REFER TO MANUFACTURERS RECOMMENDATIONS FOR FINAL PIPING ARRANGEMENT.



TRAP GUARD INSERT DETAIL

1 TRAP GUARD INSERT DETAIL
NO SCALE



NOTES:
1. WATER HAMMER ARRESTOR.
2. BALL VALVE. VALVE SIZE SHALL BE EQUAL TO NOMINAL SIZE OF ARRESTOR OUTLET (MINIMUM 1/2").
3. BRANCH PIPE EQUAL TO NOMINAL SIZE OF ARRESTOR OUTLET (MINIMUM 1/2").

LENGTH OF PIPE	NOMINAL PIPE DIAMETERS					
	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
25'	A	A	B	C	D	E
50'	A	B	C	D	E	F
75'	B	C	D	AE	F	EF
100'	C	D	E	F	CF	FF
125'	C	D	F	AF	EF	EFF
150'	D	E	F	DF	FF	FFF

WHEN LONG RUNS OF PIPING ARE EMPLOYED TO SERVE REMOTE EQUIPMENT, WATER HAMMER ARRESTOR SHOULD BE LOCATED AS CLOSE AS POSSIBLE TO THE POINT OF QUICK CLOSURE OR HAMMER SOURCE.

THE SIZE AND QUANTITY OF WATER HAMMER ARRESTORS TO BE INSTALLED IN BRANCH LINES IS SHOWN IN TABLE. WHEN FLOR PRESSURE OF 65 PSIG TO 85 PSIG ARE USED, THE NEXT LARGER SIZE SHOULD BE SELECTED.



WATER HAMMER ARRESTOR CAPACITIES			
CONN. SIZE	PDI SIZE	FIXTURE UNIT CAPACITY	CUBIC INCH VOLUME
1/2"	A	1 TO 11	5
3/4"	B	12 TO 32	7
1"	C	33 TO 60	11
1"	D	61 TO 113	20
1"	E	114 TO 154	29
1"	F	155 TO 330	34

NOTE: MATCH TOTAL FIXTURE UNITS OF BRANCH LINE TO CORRECT SIZE OF WATER HAMMER ARRESTOR.

SHOCK ABSORBER SELECTION		
CODE	PDI SIZE	FIXTURE UNITS
SA-1	A	1-11
SA-2	B	12-32
SA-3	C	33-60
SA-4	D	61-113
SA-5	E	114-154
SA-6	F	155-330

SHOCK ABSORBER SELECTION TABLE

2 WATER HAMMER ARRESTOR DETAIL
NO SCALE

3 WATER HAMMER ARRESTOR INSTALLATION & SIZING DETAIL
NO SCALE



PROJECT NO:	620589
DATE:	FEBRUARY 10, 2023
REVISIONS	
DATE	DESCRIPTION

LIFE SAFETY SYMBOL LEGEND				
DESIGNATOR MATRIX				
	WALL	BARRIER	PARTITION	RATED BEARING OR NON-BEARING WALL
2 HR FIRE	XXXXXX	■■■■■■	■■■■■■	■■■■■■
1 HR FIRE	■■■■■■	■■■■■■	■■■■■■	■■■■■■

NOTES:
1. REFER TO LIFE SAFETY DRAWINGS FOR ALL WALL RATINGS DETAILS.

EQUIPMENT IDENTIFICATION	
AHU	AIR-HANDLING UNIT
CHWP	CHILLED WATER PUMP
FCU	FAN COIL UNIT
HWP	HOT WATER PUMP
SSI	SPLIT-SYSTEM INDOOR UNIT
SSO	SPLIT-SYSTEM OUTDOOR UNIT
TU	TERMINAL UNIT
UH	UNIT HEATER

ABBREVIATIONS	
A	AMPERES
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
APD	AIR PRESSURE DROP
DHP	DRIVE HORSEPOWER
BTUH	BRITISH THERMAL UNITS PER HOUR
CFM	CUBIC FEET PER MINUTE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CLG	COOLING
COM	COMMON
D	DRAIN
DB	DRY BULB TEMPERATURE
dBA	A-WEIGHTED DECIBELS
DCW	DOMESTIC COLD WATER
DD	DIRECT DRIVE
DIA	DIAMETER
DN	DOWN
DWS	DRAWING
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EQ	EQUAL
ESP	EXTERNAL STATIC PRESSURE
EWI	ENTERING WATER TEMPERATURE
EX	EXISTING
F	DEGREES FAHRENHEIT
FC	FAIL CLOSED
FD	FIRE DAMPER
FLA	FULL LOAD AMPS
FO	FAIL OPEN
FBM	FEET PER MINUTE
FT	FOOT, FEET
GA	GAUGE
GAL	GALLON(S)
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
HTG	HEATING
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HX	HEAT EXCHANGER
HZ	HERTZ
IN	INCH
IPLV	INTEGRATED PART-LOAD VALUE
KW	KILOWATT(S)
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	ONE THOUSAND BTUH
MCA	MINIMUM CIRCUIT AMPACITY
MFR	MANUFACTURER
MIN	MINIMUM
MOC	MAXIMUM OVERCURRENT PROTECTION
MOD	MOTOR-OPERATED DAMPER
NC	NORMALLY CLOSED (FOR PLANS, DETAILS)
NC	NOISE CRITERIA (FOR SCHEDULES)
NC	NOT IN CONTRACT
NO	NORMALLY OPEN
OA	OUTSIDE AIR
OC	ON CENTER
OFI	OWNER FURNISHED CONTRACTOR INSTALLED
PF	PLENUM FAN
PH	PHASE
PSIG	POUNDS PER SQUARE INCH GAUGE
RA	RETURN AIR
RD	REFRIGERANT DISCHARGE
RH	RELATIVE HUMIDITY
RL	REFRIGERANT LIQUID
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
SA	SUPPLY AIR
SEER	SEASONAL ENERGY EFFICIENCY RATIO
TD	TRANSFER DUCT
TYP	TYPICAL
UNO	UNLESS NOTED (INDICATED) OTHERWISE
UPD	UNIT PRESSURIZATION DIFFERENTIAL
V	VOLTAGE, VOLTS
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
W	WATT(S)
WI	WITH
W/O	WITHOUT
WB	WET BULB TEMPERATURE
WC	WATER COLUMN
WPD	WATER PRESSURE DROP
WWM	WELDED WIRE MESH

GRAPHICS SYMBOLS LEGEND	
	SPACE IDENTIFICATION TAG SPACE NUMBER BUILDING AREA (WHEN USED)
	EQUIPMENT IDENTIFICATION TAG EQUIPMENT NUMBER UNIT DESIGNATION
	DIFFUSER, GRILLE OR REGISTER TAG TAG, REFER TO DIFFUSER, GRILLE AND REGISTER SCHEDULE
	DETAIL TAG DETAIL NUMBER DRAWING WHERE DETAIL IS INDICATED
	KEYNOTE
	STRUCTURAL GRID LINE WITH DESIGNATION
	EXISTING TO BE REMOVED
	DETAIL TITLE DETAIL NUMBER DRAWING WHERE DETAIL IS INDICATED DRAWING WHERE DETAIL IS REFERENCED ADDITIONAL DRAWING REFERENCES
	SECTION TITLE SECTION NUMBER DRAWING WHERE SECTION IS INDICATED DRAWING WHERE SECTION IS REFERENCED ADDITIONAL DRAWING REFERENCES
	SECTION CALLOUT SECTION NUMBER DRAWING WHERE SECTION IS INDICATED
	ENLARGED PLAN CALLOUT ENLARGED PLAN NUMBER DRAWING WHERE ENLARGED PLAN IS INDICATED
	MECHANICAL EQUIPMENT WITH REQUIRED SERVICE CLEARANCE INDICATED

DUCTWORK LEGEND	
	RECTANGULAR DUCT (FIRST DIMENSION REFERS TO SIDE VIEWED)
	ROUND DUCT SIZE
	FLAT OVAL DUCT SIZE
	DOUBLE WALL, EXPOSED DUCT
	FABRIC DUCT
	FLEXIBLE DUCTWORK
	FLEXIBLE CONNECTOR
	DUCT-MOUNTED SMOKE DETECTOR
	DUCT WITH DUCT LINER
	DUCT ACCESS DOOR
	DUCT WITH END CAP
	LINEAR SLOT DIFFUSER, LENGTH AS INDICATED
	LINEAR BAR GRILLE, LENGTH AS INDICATED
	SUPPLY DIFFUSER
	RETURN OR EXHAUST GRILLE
	SUPPLY DIFFUSER WITH DIRECTIONAL BLOW, SOLID HATCH INDICATES BLANK OFF PANEL
	POINT OF CONNECTION TO EXISTING
	LIMIT OF DEMOLITION
	SUPPLY AIRFLOW ARROW
	RETURN OR EXHAUST AIRFLOW ARROW
	MANUAL BALANCING DAMPER IN DUCT
	FIRE DAMPER IN DUCT
	SMOKE DAMPER IN DUCT
	COMBINATION FIRE/SMOKE DAMPER IN DUCT
	MOTORIZED DAMPER IN DUCT
	SMOKE CONTROL MANUAL BALANCING DAMPER IN DUCT
	SMOKE CONTROL MOTORIZED DAMPER IN DUCT
	SECURITY BARS IN DUCT
	DUCT WITH ACCESS PANEL
	SUPPLY/MAKEUP AIR DUCT SECTIONS
	RETURN AIR DUCT SECTIONS
	EXHAUST AIR DUCT SECTIONS
	SMOKE DETECTOR
	HUMIDITY SENSOR
	THERMOSTAT, LOW VOLTAGE
	THERMOSTAT, HIGH VOLTAGE
	TEMPERATURE SENSOR
	CARBON DIOXIDE SENSOR
	OCCUPANCY SENSOR (INPUT FROM AUX RELAY OF LIGHTING)
	SENSOR WELL
	DOOR UNDERCUT
	DOOR LOUVER

PIPING LEGEND	
	PIPE CAP
	PIPE TURNED DOWN
	PIPE TURNED UP
	PIPE TEE UP
	PIPE TEE DOWN
	END OF LINE CLEANOUT PLUG
	CLEANOUT PLUG
	PRESSURE GAUGE WITH GAUGE COCK
	LIQUID FILLED THERMOMETER
	UNION
	STRAINER WITH BLOWDOWN VALVE AND 3/4" HOSE END CONNECTION
	FLEXIBLE PIPE CONNECTOR
	MANUAL AIR VENT
	VALVE
	VALVE IN RISER
	MANUAL BALANCING VALVE WITH FLOW TAPS
	AUTOMATIC BALANCING VALVE WITH FLOW TAPS
	SWING CHECK VALVE
	PRESSURE REDUCING VALVE
	TRIPLE DUTY VALVE
	GAS COCK
	PRESSURE-RELIEF VALVE
	TWO-WAY CONTROL VALVE
	THREE-WAY CONTROL VALVE
	DIRECTION OF FLOW
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER

GENERAL NOTES	
A. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.	G. PROVIDE TRAPPED DRAIN PIPING FROM DRAIN PANS OF ALL COOLING COILS, FANS AND OTHER ACTIVE DRAINS EXPOSED TO SYSTEM AIRSTREAM. PROVIDE TRAP AT CONNECTION WITH WATER SEAL DEPTH ONE INCH GREATER THAN UNIT OPERATING PRESSURE. DIRECT DRAINS TO NEAREST FLOOR DRAIN OR OTHER LOCATION APPROVED BY THE ARCHITECT. ALL AIR HANDLING UNITS SHALL BE EQUIPPED WITH TRENT TECHNOLOGIES COXBY CONDENSATE DRAIN.
B. DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY. DO NOT SCALE DRAWINGS. LOCATIONS OF ALL ITEMS INDICATED ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE. COORDINATE CONTRACT DOCUMENTS PROJECT REQUIREMENTS, WORK OF OTHERS, AND EQUIPMENT AND MATERIALS PURCHASED WITH FIELD DIMENSIONS, MANUFACTURER'S REQUIREMENTS FOR INSTALLATION, OPERATION, AND MAINTENANCE. CONTRACTOR'S INTENDED MEANS AND METHODS OF INSTALLATION, AND CONTRACTOR'S FABRICATED ITEMS TO ENSURE A PROPER FIT AND INSTALLATION.	H. INSTALL PIPING, DUCTWORK AND CONDUIT CONCEALED IN AREAS HAVING CEILINGS AND/OR FURRED SPACES UNLESS OTHERWISE INDICATED.
C. MAINTAIN MAXIMUM HEADROOM AND SPACE CONDITIONS AT ALL POINTS, WHERE HEADROOM AND SPACE CONDITIONS APPEAR INADEQUATE, NOTIFY THE ARCHITECTS PRIOR TO PROCEEDING WITH INSTALLATION. MAINTAIN A MINIMUM OF 7'-0" CLEARANCE ABOVE FINISHED FLOOR TO UNDERSIDE OF PIPES, DUCTS, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.	I. ALL EQUIPMENT, VALVES, DAMPERS, DAMPER AND VALVE OPERATORS SHALL BE PROVIDED WITH ADEQUATE ACCESS FOR SERVICING, MAINTENANCE, AND REPLACEMENT.
D. FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION. MAKE MODIFICATIONS IN THE LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF THE WORK.	J. DUCT DIMENSIONS MAY BE MODIFIED ONLY WITH PRIOR APPROVAL FROM ARCHITECT. DUCT DIMENSIONS ARE IN INCHES AND INSIDE CLEAR.
E. INSTALL ALL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.	K. ELEVATION INDICATED FOR RECTANGULAR DUCT, GRILLE AND LOUVER OPENINGS IS TO THE TOP OF ROUGH OPENING UNLESS OTHERWISE INDICATED. ELEVATION INDICATED FOR ROUND DUCTWORK AND PIPING IS TO CENTERLINE.
F. COORDINATE LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS WITH ALL OTHER TRADES. COORDINATE ALL PIPING AND EQUIPMENT SUPPORTED FROM STRUCTURE WITH GENERAL CONSTRUCTION WORK.	



ALDERMAN AND KING HALL RENOVATIONS - KING HALL - FURNISH AIR HANDLING UNITS
 University of North Carolina Wilmington
 SCOR#22-24639-01A
 601 Hamilton Drive, Wilmington, NC 28403

PROJECT NO.	DATE	REVISIONS
622989	OCTOBER 10, 2022	
		DATE
		DESCRIPTION

LEGENDS, ABBREVIATIONS AND GENERAL NOTES



PROJECT NO:	620589
DATE:	FEBRUARY 10, 2023
REVISIONS	
DATE	DESCRIPTION

LIFE SAFETY SYMBOL LEGEND

DESIGNATOR MATRIX	WALL			BARRIER			PARTITION			RATED BEARING OR NON-BEARING WALL		
	1	2	3	1	2	3	1	2	3	1	2	3
2 HR FIRE	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
1 HR FIRE	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX

NOTES:
1. REFER TO LIFE SAFETY DRAWINGS FOR ALL WALL RATINGS DETAILS.

EQUIPMENT IDENTIFICATION

AHU	AIR-HANDLING UNIT
BC	BUILDING AUTOMATION SYSTEM CONTROLLER
CHWP	CHILLED WATER PUMP
CP	COIL PUMP
DS	DUCT SILENCER
DSD	DUCT SMOKE DETECTOR
F	FAN
FCU	FAN COIL UNIT
HWP	HOT WATER PUMP
RF	RELIEF FAN
SSI	SPLIT-SYSTEM INDOOR UNIT
SSO	SPLIT-SYSTEM OUTDOOR UNIT
TU	TERMINAL UNIT
TU-XFMR	TERMINAL UNIT POWER TRANSFORMER
UH	UNIT HEATER
VFD	VARIABLE FREQUENCY DRIVE

CONTROLS ABBREVIATIONS

AF	AIRFLOW
AI	ANALOG INPUT TO CONTROLLER
ALM	ALARM
AMS	AIRFLOW MEASURING STATION
AO	ANALOG OUTPUT FROM CONTROLLER
ATS	AVERAGING TEMPERATURE SENSOR
BAS	BUILDING AUTOMATION SYSTEM
BI	BINARY INPUT TO CONTROLLER
BO	BINARY OUTPUT FROM CONTROLLER
CO2	CARBON DIOXIDE SENSOR
CSR	CURRENT-SENSING RELAY
DM	DAMPER MOTOR
DP	DIFFERENTIAL PRESSURE
DPT	DIFFERENTIAL PRESSURE TRANSMITTER
FM	FLOW METER
FZ	FREEZESTAT
HS	HUMIDITY SENSOR
POS	POSITION
R	RELAY
SD	SMOKE DETECTOR
SPD	SPEED
SS	START/STOP
STS	STATUS
TS	TEMPERATURE SENSOR
VFD	VARIABLE-FREQUENCY DRIVE

ABBREVIATIONS

A	AMPERES
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
APD	AIR PRESSURE DROP
BHP	BRAKE HORSEPOWER
BTUH	BRITISH THERMAL UNITS PER HOUR
CFM	CUBIC FEET PER MINUTE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CLG	COOLING
COM	COMMON
D	DRAIN
DB	DRY BULB TEMPERATURE
dBA	A-WEIGHTED DECIBELS
DCW	DOMESTIC COLD WATER
DD	DIRECT DRIVE
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EQ	EQUAL
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
F	DEGREES FAHRENHEIT
FC	FAIL CLOSED
FD	FIRE DAMPER
FLA	FULL LOAD AMPS
FO	FAIL OPEN
FPM	FEET PER MINUTE
FT	FOOT, FEET
GA	GAUGE
GAL	GALLON(S)
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HTG	HEATING
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HX	HEAT EXCHANGER
HZ	HERTZ
IN	INCH
IPLV	INTEGRATED PART-LOAD VALUE
KW	KILOWATT(S)
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	ONE THOUSAND BTUH
MCA	MINIMUM CIRCUIT AMPACITY
MFR	MANUFACTURER
MIN	MINIMUM
MOC	MAXIMUM OVERCURRENT PROTECTION
MOD	MOTOR-OPERATED DAMPER
NC	NORMALLY CLOSED (FOR PLANS, DETAILS)
NC	NOISE CRITERIA (FOR SCHEDULES)
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
OA	OUTSIDE AIR
OC	ON CENTER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
PF	PLENUM FAN
PH	PHASE
PSIG	POUNDS PER SQUARE INCH GAUGE
RA	RETURN AIR
RD	REFRIGERANT DISCHARGE
RH	RELATIVE HUMIDITY
RL	REFRIGERANT LIQUID
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
SA	SUPPLY AIR
SEER	SEASONAL ENERGY EFFICIENCY RATIO
TAB	TESTING AND BALANCING
TD	TRANSFER DUCT
TYP	TYPICAL
UNO	UNLESS NOTED (INDICATED) OTHERWISE
UPD	UNIT PRESSURIZATION DIFFERENTIAL
V	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
W	WATT(S)
WF	WITH
W/O	WITHOUT
WB	WET BULB TEMPERATURE
WC	WATER COLUMN
WPD	WATER PRESSURE DROP
WMM	WELDED WIRE MESH

GRAPHICS SYMBOLS LEGEND

	SPACE IDENTIFICATION TAG SPACE NUMBER BUILDING AREA (WHEN USED)		DETAIL TITLE DETAIL NUMBER DRAWING WHERE DETAIL IS INDICATED DRAWING WHERE DETAIL IS REFERENCED
	EQUIPMENT IDENTIFICATION TAG EQUIPMENT NUMBER UNIT DESIGNATION		SECTION TITLE SECTION NUMBER DRAWING WHERE SECTION IS INDICATED DRAWING WHERE SECTION IS REFERENCED
	DIFFUSER, GRILLE OR REGISTER TAG TAG, REFER TO DIFFUSER, GRILLE AND REGISTER SCHEDULE		SECTION CALLOUT SECTION NUMBER DRAWING WHERE SECTION IS INDICATED
	DETAIL TAG DETAIL NUMBER DRAWING WHERE DETAIL IS INDICATED		ENLARGED PLAN CALLOUT ENLARGED PLAN NUMBER DRAWING WHERE ENLARGED PLAN IS INDICATED
	KEYNOTE		MECHANICAL EQUIPMENT WITH REQUIRED SERVICE CLEARANCE INDICATED
	STRUCTURAL GRID LINE WITH DESIGNATION		
	EXISTING TO BE REMOVED		

DUCTWORK LEGEND

	RECTANGULAR DUCT (FIRST DIMENSION REFERS TO SIDE VIEWED)		MANUAL BALANCING DAMPER IN DUCT
	ROUND DUCT SIZE		FIRE DAMPER IN DUCT
	FLAT OVAL DUCT SIZE		SMOKE DAMPER IN DUCT
	DOUBLE WALL, EXPOSED DUCT		COMBINATION FIRE/SMOKE DAMPER IN DUCT
	FABRIC DUCT		MOTORIZED DAMPER IN DUCT
	FLEXIBLE DUCTWORK		SMOKE CONTROL MANUAL BALANCING DAMPER IN DUCT
	FLEXIBLE CONNECTOR		SMOKE CONTROL MOTORIZED DAMPER IN DUCT
	DUCT-MOUNTED SMOKE DETECTOR		SECURITY BARS IN DUCT
	DUCT WITH DUCT LINER		DUCT WITH ACCESS PANEL
	DUCT ACCESS DOOR		SUPPLY/MAKEUP AIR DUCT SECTIONS
	DUCT WITH END CAP		RETURN AIR DUCT SECTIONS
	LINEAR SLOT DIFFUSER, LENGTH AS INDICATED		EXHAUST AIR DUCT SECTIONS
	LINEAR BAR GRILLE, LENGTH AS INDICATED		SMOKE DETECTOR
	SUPPLY DIFFUSER		HUMIDITY SENSOR
	RETURN OR EXHAUST GRILLE		THERMOSTAT, LINE VOLTAGE
	SUPPLY DIFFUSER WITH DIRECTIONAL BLOW, SOLID HATCH INDICATES BLANK OFF PANEL		THERMOSTAT, LOW VOLTAGE
	POINT OF CONNECTION TO EXISTING		TEMPERATURE SENSOR
	LIMIT OF DEMOLITION		CARBON DIOXIDE SENSOR
	SUPPLY AIRFLOW ARROW		OCCUPANCY SENSOR (INPUT FROM AUX RELAY OF LIGHTING)
	RETURN OR EXHAUST AIRFLOW ARROW		SENSOR WELL
			DOOR UNDERCUT
			DOOR LOUVER

PIPING LEGEND

	PIPE CAP		VALVE
	PIPE TURNED DOWN		VALVE IN RISER
	PIPE TURNED UP		MANUAL BALANCING VALVE WITH FLOW TAPS
	PIPE TEE UP		AUTOMATIC BALANCING VALVE WITH FLOW TAPS
	PIPE TEE DOWN		SWING CHECK VALVE
	END OF LINE CLEANOUT PLUG		PRESSURE REDUCING VALVE
	CLEANOUT PLUG		TRIPLE DUTY VALVE
	PRESSURE GAUGE WITH GAUGE COCK		GAS COCK
	LIQUID FILLED THERMOMETER		PRESSURE-RELIEF VALVE
	UNION		TWO-WAY CONTROL VALVE
	STRAINER WITH BLOWDOWN VALVE AND 3/4" HOSE END CONNECTION		THREE-WAY CONTROL VALVE
	FLEXIBLE PIPE CONNECTOR		DIRECTION OF FLOW
	MANUAL AIR VENT		CONCENTRIC REDUCER
			ECCENTRIC REDUCER

GENERAL NOTES

A. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.

B. DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY. DO NOT SCALE DRAWINGS. LOCATIONS OF ALL ITEMS INDICATED ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE. COORDINATE CONTRACT DOCUMENTS PROJECT REQUIREMENTS, WORK OF OTHERS, AND EQUIPMENT AND MATERIALS PURCHASED WITH FIELD DIMENSIONS, MANUFACTURER'S REQUIREMENTS FOR INSTALLATION, OPERATION, AND MAINTENANCE. CONTRACTOR'S INTENDED MEANS AND METHODS OF INSTALLATION, AND CONTRACTOR'S FABRICATED ITEMS TO ENSURE A PROPER FIT AND INSTALLATION.

C. MAINTAIN MAXIMUM HEADROOM AND SPACE CONDITIONS AT ALL POINTS WHERE HEADROOM AND SPACE CONDITIONS APPEAR INADEQUATE. NOTIFY THE ARCHITECTS PRIOR TO PROCEEDING WITH INSTALLATION. MAINTAIN A MINIMUM OF 7'-0" CLEARANCE ABOVE FINISHED FLOOR TO UNDERSIDE OF PIPES, DUCTS, CONDUTS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.

D. FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION. MAKE MODIFICATIONS IN THE LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF THE WORK.

E. INSTALL ALL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.

F. COORDINATE LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS WITH ALL OTHER TRADES. COORDINATE ALL PIPING AND EQUIPMENT SUPPORTED FROM STRUCTURE WITH GENERAL CONSTRUCTION WORK.

G. PROVIDE TRAPPED DRAIN PIPING FROM DRAIN PANS OF ALL COOLING COILS, FANS AND OTHER ACTIVE DRAINS EXPOSED TO SYSTEM AIRSTREAM. PROVIDE TRAP AT CONNECTION WITH WATER SEAL DEPTH ONE INCH GREATER THAN UNIT OPERATING PRESSURE. DIRECT DRAINS TO NEAREST FLOOR DRAIN OR OTHER LOCATION APPROVED BY THE ARCHITECT. ALL AIR HANDLING UNITS SHALL BE EQUIPPED WITH TRENT TECHNOLOGIES COXBY CONDENSATE DRAIN.

H. INSTALL PIPING, DUCTWORK AND CONDUIT CONCEALED IN AREAS HAVING CEILINGS AND/OR FURRED SPACES UNLESS OTHERWISE INDICATED.

I. ALL EQUIPMENT, VALVES, DAMPERS, DAMPER AND VALVE OPERATORS SHALL BE PROVIDED WITH ADEQUATE ACCESS FOR SERVICING, MAINTENANCE, AND REPLACEMENT.

J. SIZE ALL SPLIT-SYSTEM REFRIGERANT PIPING IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

K. DUCT DIMENSIONS MAY BE MODIFIED ONLY WITH PRIOR APPROVAL FROM ARCHITECT. DUCT DIMENSIONS ARE IN INCHES AND INSIDE CLEAR.

L. FOR LOCATION OF REGISTERS, GRILLES AND DIFFUSERS WITHIN CEILING GRID, REFER TO ARCHITECTURAL REFLECTED CEILING PLANS.

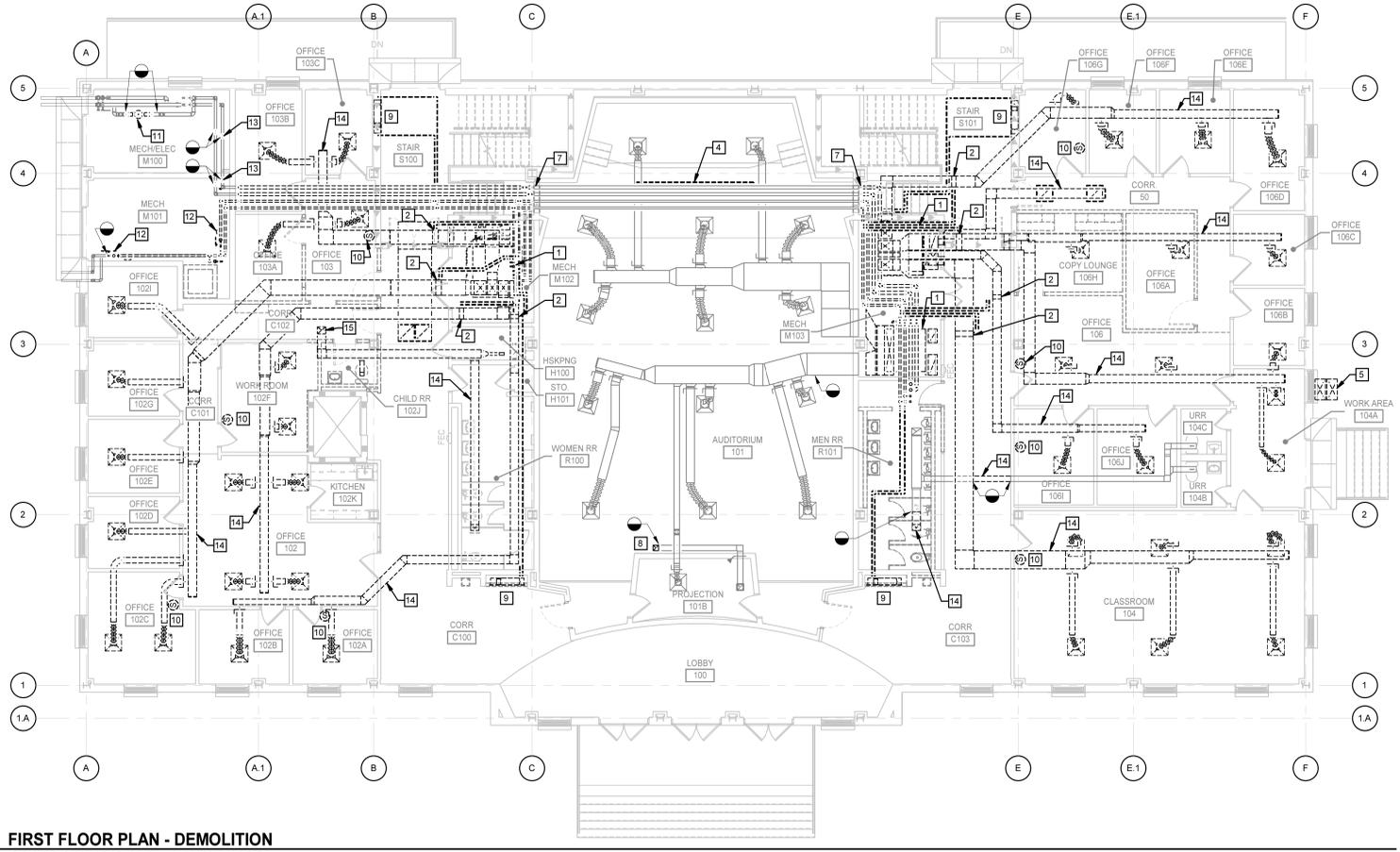
M. ELEVATION INDICATED FOR RECTANGULAR DUCT, GRILLE AND LOUVER OPENINGS IS TO THE TOP OF ROUGH OPENING UNLESS OTHERWISE INDICATED. ELEVATION INDICATED FOR ROUND DUCTWORK AND PIPING IS TO CENTERLINE.

N. BRANCH PIPING RUNOUTS TO TERMINAL UNITS SHALL BE 3/4" DIAMETER UNLESS INDICATED OTHERWISE.

O. REFER TO STRUCTURAL DRAWINGS FOR DETAILS AND MAXIMUM SPACING REQUIREMENTS REGARDING HANGER ATTACHMENTS TO STEEL BAR JOISTS.

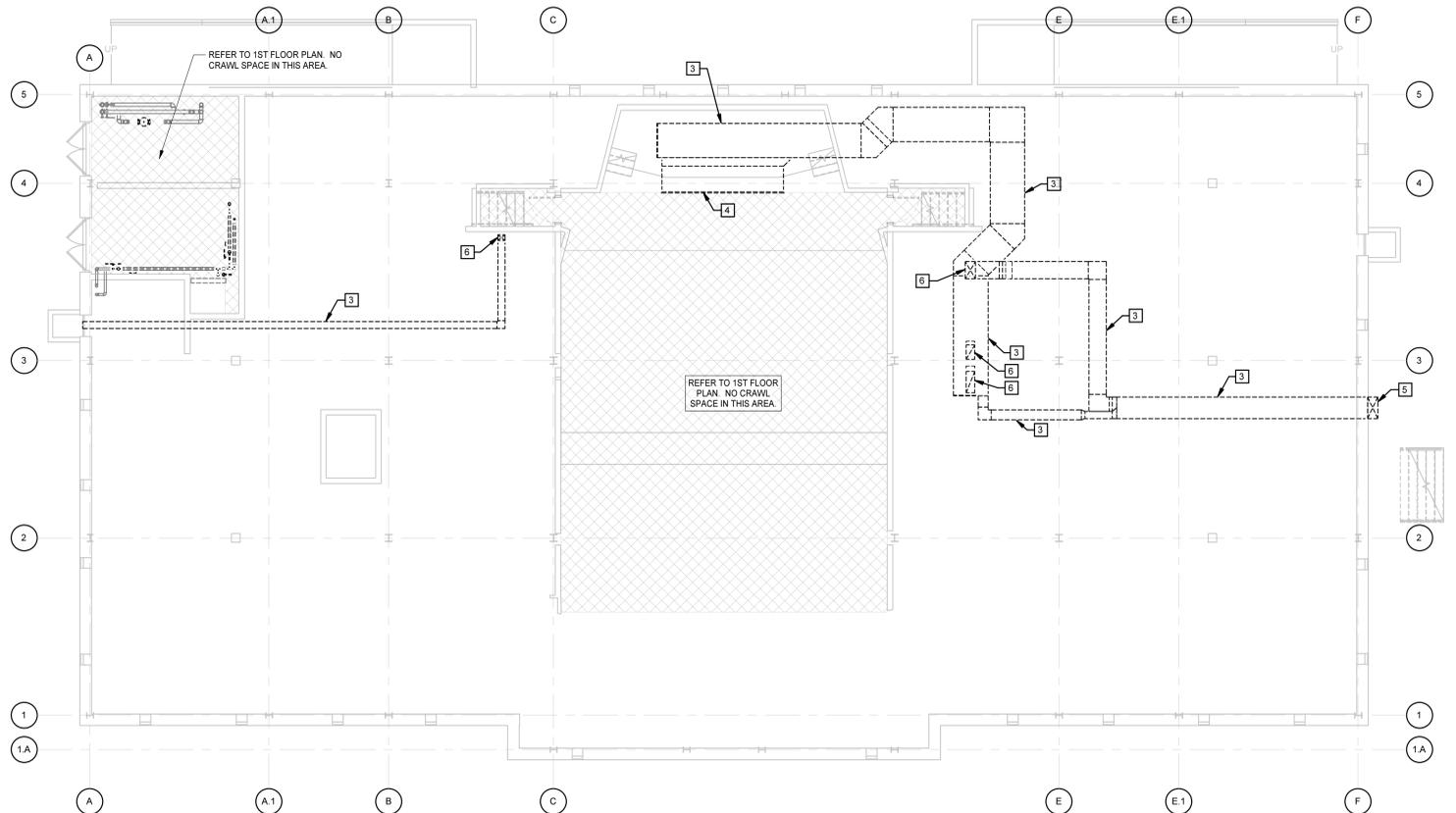
P. ALL MECHANICAL WORK SHALL BE IN ACCORDANCE WITH THE 2018 NORTH CAROLINA MECHANICAL CODE.

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FIRST FLOOR PLAN - DEMOLITION

1/8" = 1'-0"



CRAWL SPACE PLAN - DEMOLITION

1/8" = 1'-0"

KEYNOTES

APPLIES TO THIS DRAWING

- 1 REMOVE AIR HANDLING UNIT AND ALL ASSOCIATED CONTROLS. REMOVE DUCTWORK AND PIPING TO EXTENT INDICATED. REMOVE CONCRETE HOUSEKEEPING PAD.
- 2 REMOVE DUCT MOUNTED HEATING COIL AND ALL ASSOCIATED PIPING AND CONTROLS.
- 3 REMOVE ALL DUCT IN CRAWL SPACE.
- 4 REMOVE RETURN GRILLE AND RETAIN. PAINT AND PROVIDE INSULATED STEEL BACK PANEL. REFER TO EXISTING STAGE RETURN GRILLE CAP DETAIL.
- 5 REMOVE OUTSIDE AIR GOOSENECK INTAKE. REFER TO ARCHITECTURAL DRAWINGS FOR INFILL.
- 6 REMOVE DUCT UP TO FIRST FLOOR. INFILL FLOOR OPENING. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- 7 ABANDON IN PLACE ALL PIPING ABOVE GYPSUM CEILING. CAP PIPING AT STAIR WELL. SEAL ALL WALL PENETRATIONS AT STAIR WALLS.
- 8 REMOVE EXHAUST DUCT RISER. PREPARE DUCT FOR CONNECTION.
- 9 REMOVE FAN COIL AND ALL ASSOCIATED PIPING AND CONTROLS. CAP AND ABANDON IN PLACE ALL PIPING CONCEALED WITHIN WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR INFILLING WALL.
- 10 REMOVE THERMOSTAT/TEMPERATURE SENSOR. RETAIN BOX AND PATHWAY FOR NEW SENSOR TO EXTENT POSSIBLE. NEW SENSOR TO BE MOUNTED AT TOP 48" ABOVE FINISHED FLOOR.
- 11 REMOVE CHILLED WATER BRIDGE PUMP AND ASSOCIATED PIPING AND CONTROLS TO EXTENT INDICATED. REFER TO CHILLED WATER SYSTEM SCHEMATIC FOR ADDITIONAL DETAILS.
- 12 REMOVE HOT WATER BRIDGE PUMP AND ASSOCIATED PIPING AND CONTROLS TO INCOMING SHUT-OFF VALVES. REPLACE EXISTING INCOMING SHUTOFF VALVES. REFER TO HOT WATER SYSTEM SCHEMATIC FOR ADDITIONAL DETAILS.
- 13 PREPARE PIPING FOR CONNECTION OF NEW PIPING.
- 14 REMOVE ALL DUCTWORK, DIFFUSERS/GRILLES, AND FLEXIBLE DUCTWORK TO EXTENT INDICATED. TYPICAL.
- 15 REMOVE EXHAUST DUCT TO EXTENT INDICATED. INFILL FLOOR, REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS.

MOSELEYARCHITECTS

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ALDERMAN AND KING HALL RENOVATIONS - KING HALL

University of North Carolina Wilmington
SCOR#22-24639-01A
601 Hamilton Drive, Wilmington, NC 28403

PROJECT NO:	620589
DATE:	FEBRUARY 10, 2023
REVISIONS	
DATE	DESCRIPTION

DEMOLITION PLANS -
CRAWL SPACE & FIRST
FLOOR

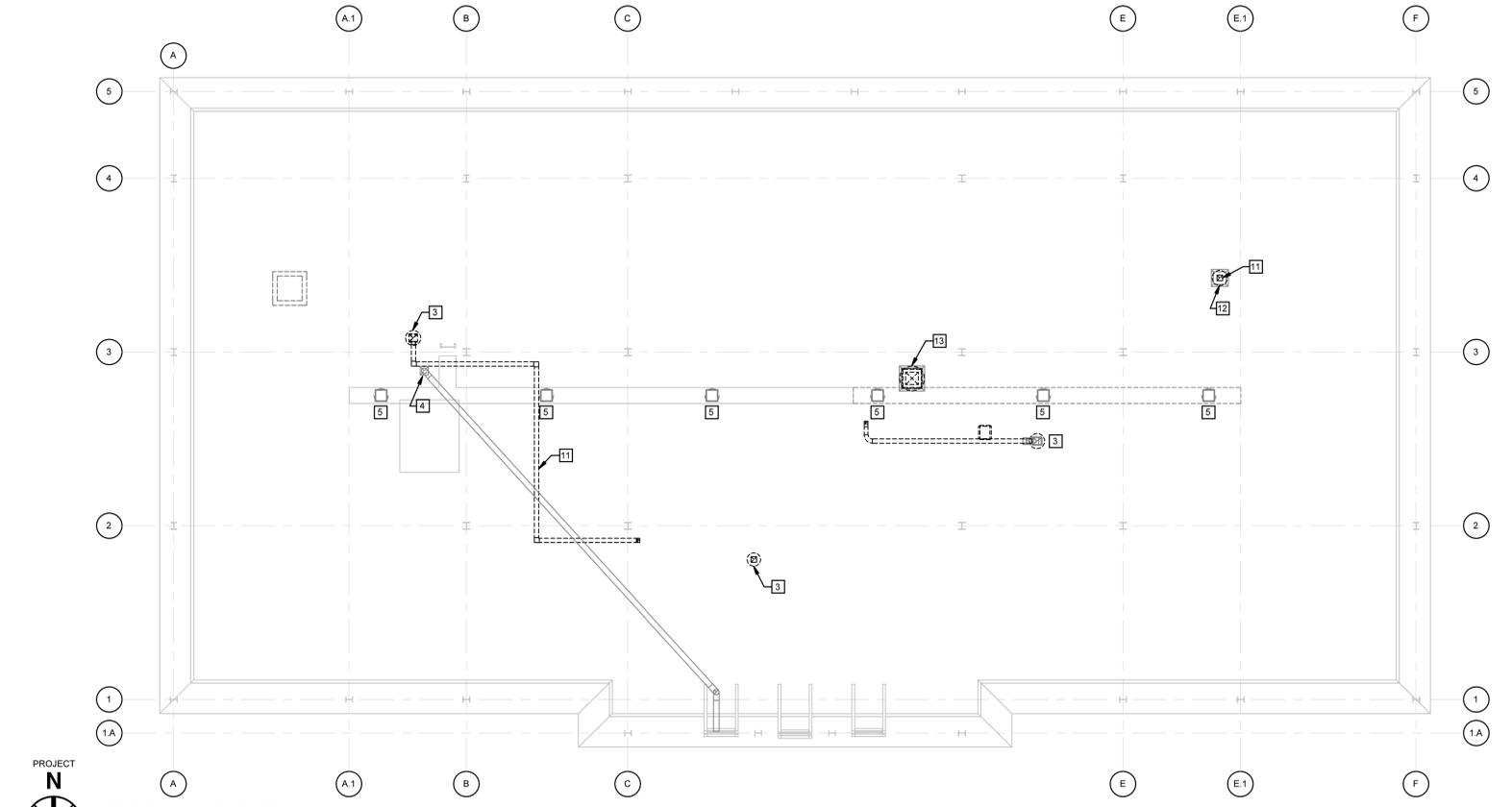
M1.1



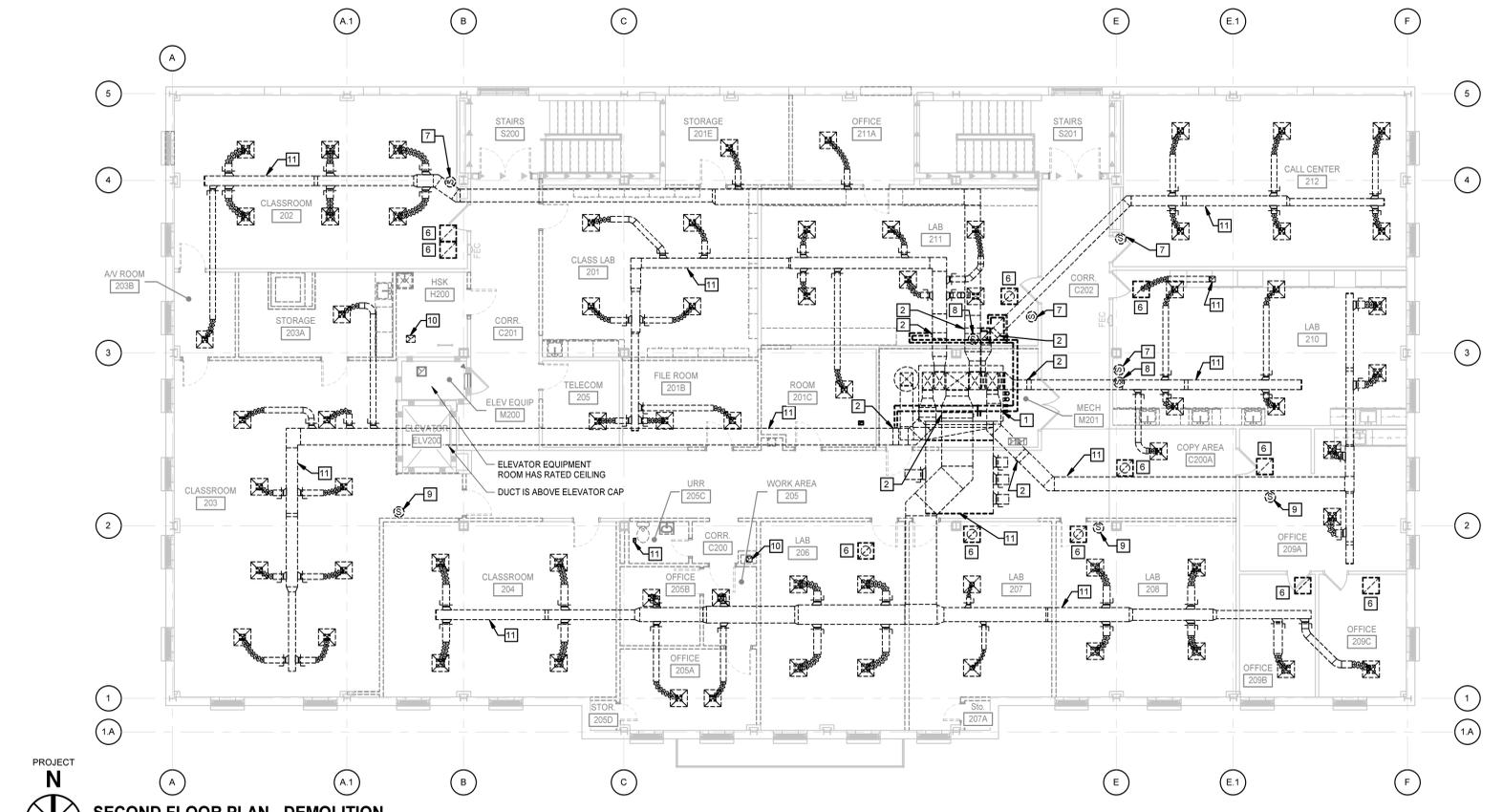
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PROJECT
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ATTIC PLAN - DEMOLITION
1/8" = 1'-0"
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PROJECT
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SECOND FLOOR PLAN - DEMOLITION
1/8" = 1'-0"
POLAR

KEYNOTES
APPLIES TO THIS DRAWING

- 1 REMOVE AIR HANDLING UNIT AND ALL ASSOCIATED CONTROLS. REMOVE DUCTWORK AND PIPING TO EXTENT INDICATED. REMOVE CONCRETE HOUSEKEEPING PAD.
- 2 REMOVE DUCT MOUNTED HEATING COIL AND ALL ASSOCIATED PIPING AND CONTROLS.
- 3 REMOVE FAN AND ALL ASSOCIATED DUCTWORK AND CONTROLS. RETAIN ROOF CURB FOR INSTALLATION OF NEW FAN.
- 4 ELEVATOR EXHAUST FAN AND DUCTWORK TO REMAIN.
- 5 ATTIC GRAVITY VENTILATORS TO REMAIN, TYPICAL.
- 6 REMOVE RETURN GRILLE AND ALL ASSOCIATED DUCTWORK AND FLEXIBLE DUCTWORK.
- 7 REMOVE THERMOSTAT/TEMPERATURE SENSOR. RETAIN BOX AND PATHWAY FOR NEW SENSOR TO EXTENT POSSIBLE. NEW SENSOR TO BE MOUNTED AT TOP 48" ABOVE FINISHED FLOOR.
- 8 REMOVE THERMOSTAT/TEMPERATURE SENSOR AND ASSOCIATED WIRING AND BOX. PATCH WALL.
- 9 REMOVE THERMOSTAT/TEMPERATURE SENSOR AND ASSOCIATED WIRING AND PATHWAYS.
- 10 REMOVE EXHAUST DUCT TO EXTENT INDICATED. INFILL FLOOR, REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- 11 REMOVE ALL DUCTWORK, DIFFUSERS/GRILLES, AND FLEXIBLE DUCTWORK TO EXTENT INDICATED, TYPICAL.
- 12 REMOVE EXHAUST FAN AND ASSOCIATED DUCTWORK AND CONTROLS. CAP EXISTING ROOF CURB. REFER TO EXISTING ROOF CURB CAP DETAIL.
- 13 REMOVE GRAVITY VENTILATOR AND ALL ASSOCIATED DUCTWORK. CAP EXISTING ROOF CURB. REFER TO EXISTING ROOF CURB CAP DETAIL.

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ALDERMAN AND KING HALL RENOVATIONS - KING HALL

University of North Carolina Wilmington
SCOR#22-24639-01A
601 Hamilton Drive, Wilmington, NC 28403

PROJECT NO:	620589
DATE:	FEBRUARY 10, 2023
REVISIONS	
DATE	DESCRIPTION

DEMOLITION PLANS -
SECOND FLOOR &
ATTIC

M1.2



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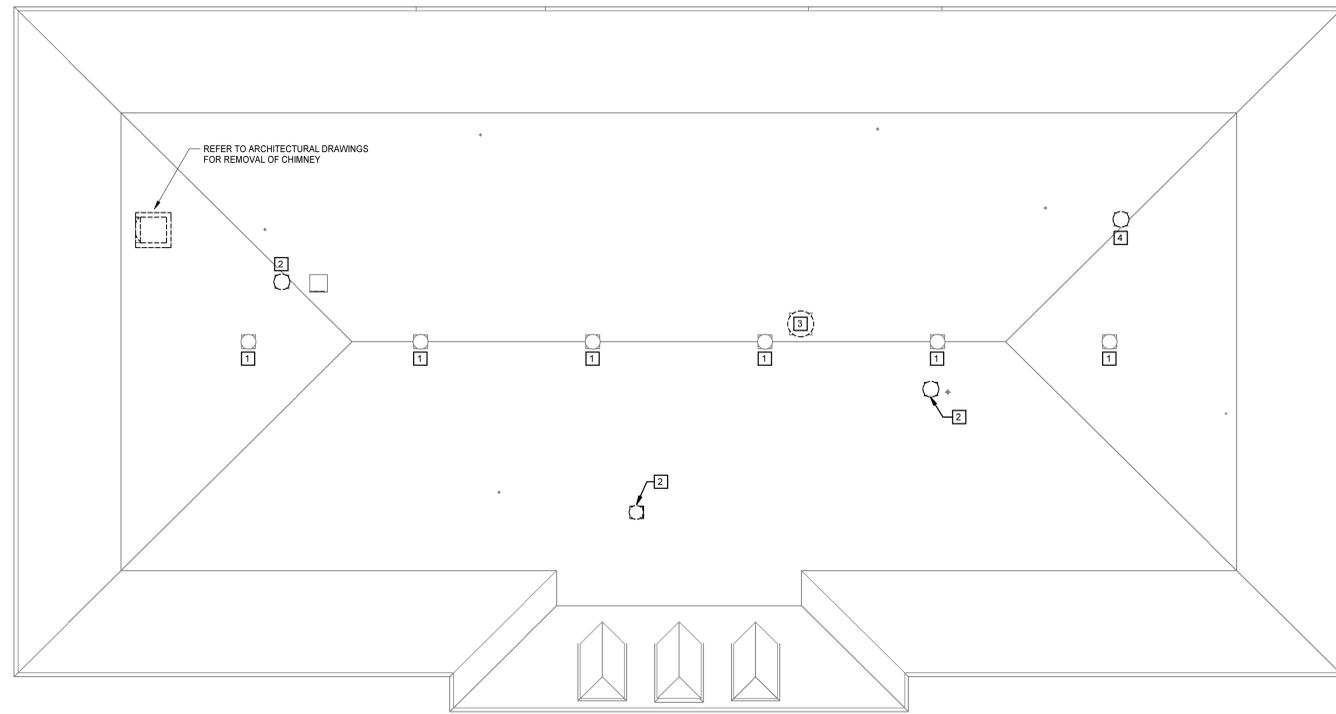
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MECH ROOF PLAN - DEMOLITION

1/8" = 1'-0"



KEYNOTES	
APPLIES TO THIS DRAWING	
1	ATTIC GRAVITY VENTILATORS TO REMAIN. TYPICAL.
2	REMOVE FAN AND ALL ASSOCIATED DUCTWORK AND CONTROLS. RETAIN ROOF CURB FOR INSTALLATION OF NEW FAN.
3	REMOVE GRAVITY VENTILATOR AND ALL ASSOCIATED DUCTWORK. CAP EXISTING ROOF CURB. REFER TO EXISTING ROOF CURB CAP DETAIL.
4	REMOVE EXHAUST FAN AND ASSOCIATED DUCTWORK AND CONTROLS. CAP EXISTING ROOF CURB. REFER TO EXISTING ROOF CURB CAP DETAIL.



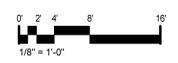
ALDERMAN AND KING HALL RENOVATIONS - KING HALL

University of North Carolina Wilmington
SCOR#22-24639-01A
601 Hamilton Drive, Wilmington, NC 28403

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DATE	DESCRIPTION

DATE	DESCRIPTION

DEMOLITION PLANS - ROOF



M1.3

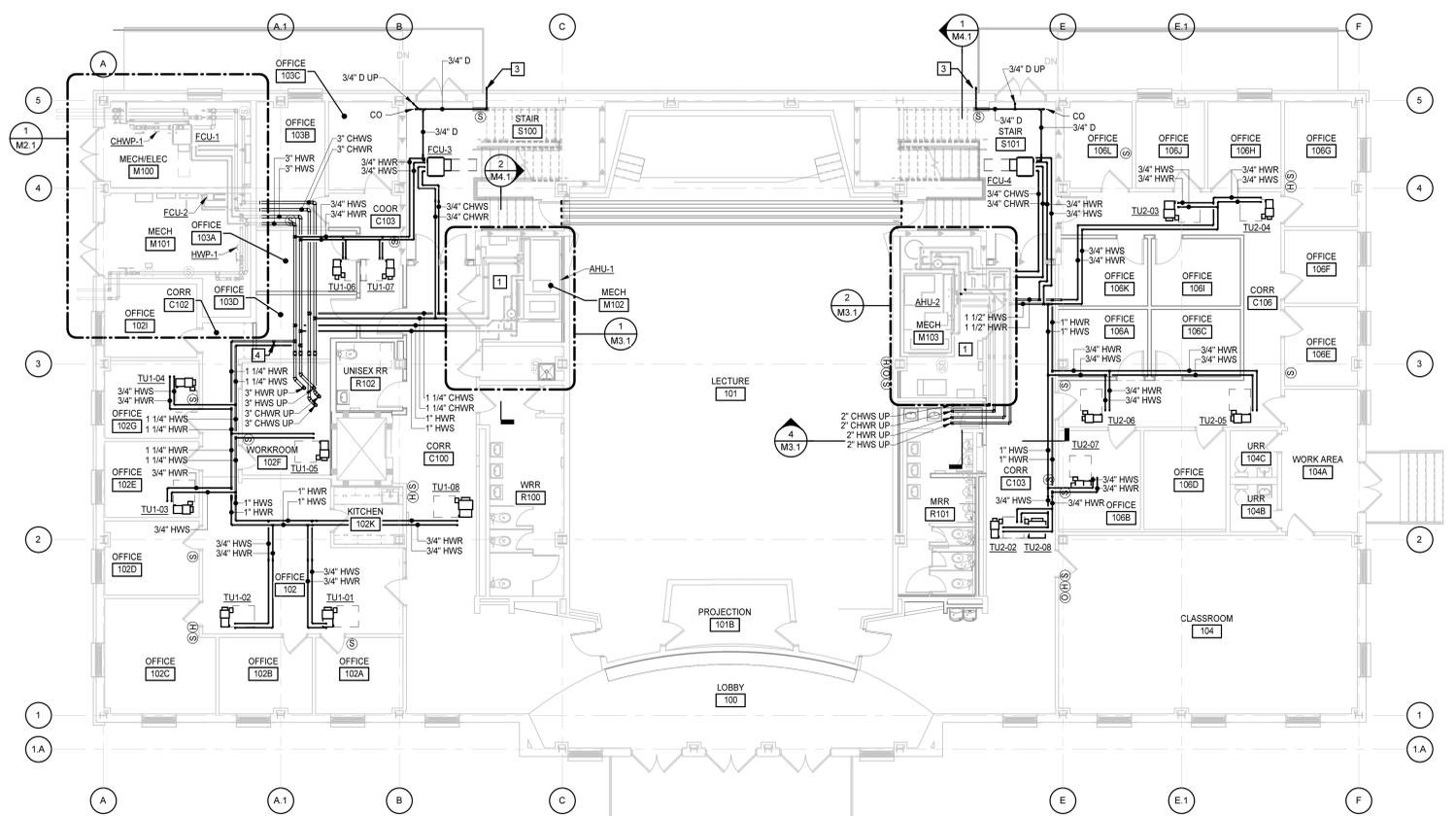
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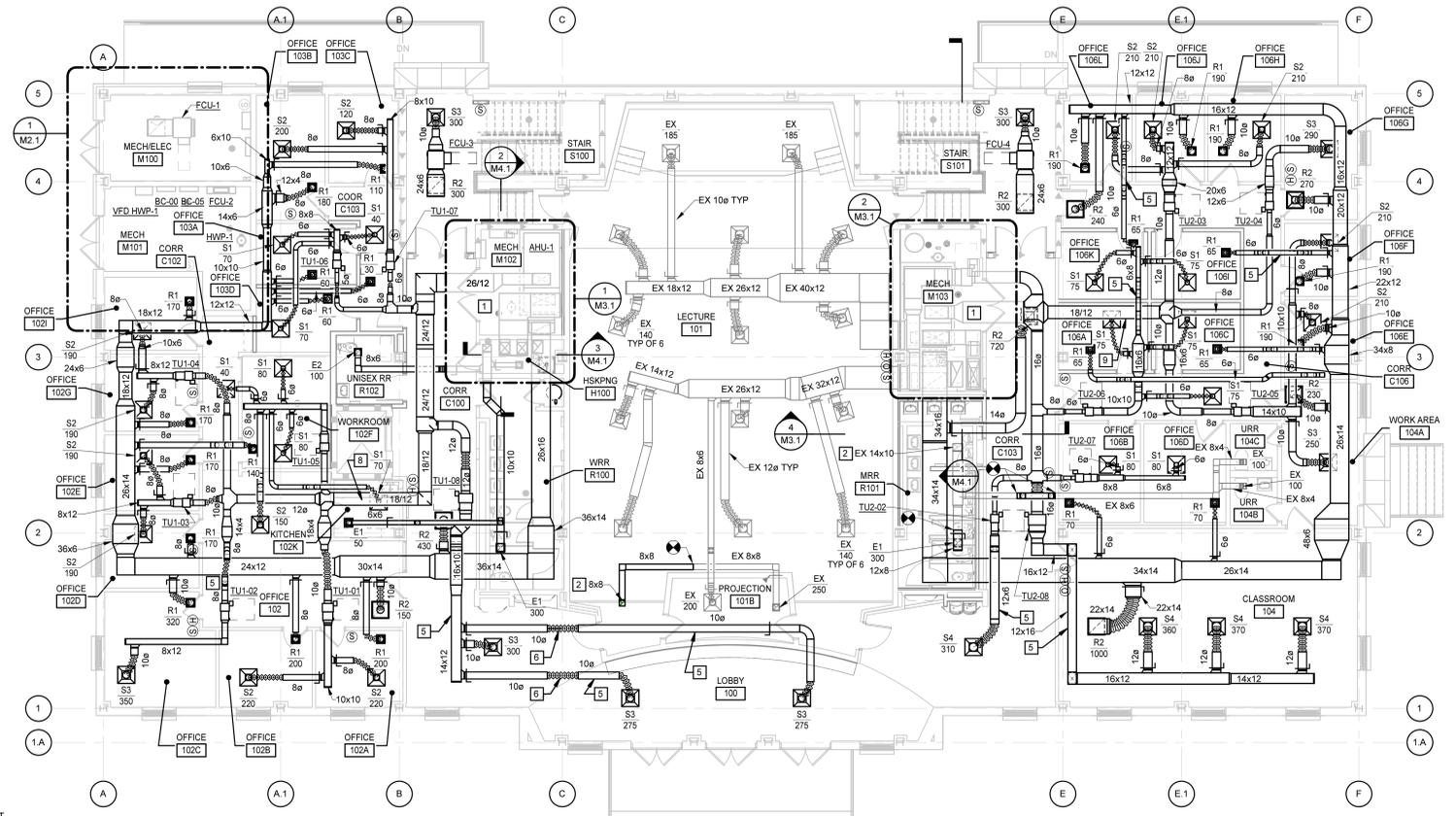


PROJECT NO.	620589
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DATE	DESCRIPTION

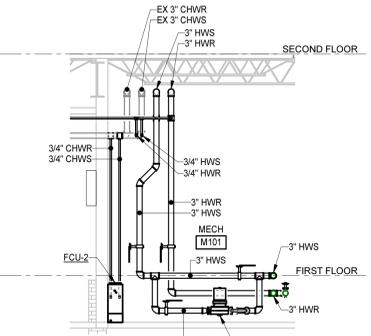
- KEYNOTES**
 APPLIES TO THIS DRAWING
- REFER TO ENLARGED PLAN FOR ADDITIONAL DETAILS AND SIZING.
 - DUCT UP TO SECOND FLOOR. FILL ANNULAR SPACE AROUND DUCT PENETRATION THROUGH FLOOR WITH MINERAL WOOL TO RESIST THE FREE PASSAGE OF FLAME AND THE PRODUCTS OF COMBUSTION IN ACCORDANCE WITH 717.6.3, 2 OF THE NORTH CAROLINA STATE BUILDING CODE.
 - DISCHARGE CONDENSATE DRAIN TO SPLASH BLOCK ON GRADE. PAINT EXTERIOR PIPING TO MATCH BRICK.
 - INSTALL HOT WATER DIFFERENTIAL PRESSURE SENSOR AT THIS LOCATION.
 - ROUTE DUCTWORK WITHIN JOIST SPACING OR WEBBING.
 - PROVIDE FLEXIBLE DUCT TO ROUTE UNDER BEAM.
 - DISCHARGE CONDENSATE DRAIN TO FLOOR DRAIN.
 - MOUNT DOWN DUCT STATIC PRESSURE SENSOR FOR AHU-1 AT THIS LOCATION.
 - MOUNT DOWN DUCT STATIC PRESSURE SENSOR FOR AHU-2 AT THIS LOCATION.
 - LOCATE CHILLED WATER BTU METER AT THIS LOCATION.
 - LOCATE HOT WATER BTU METER AT THIS LOCATION.
 - OPEN END DUCT, COVER WITH 1/2"x1/2" WELDED WIRE MESH.



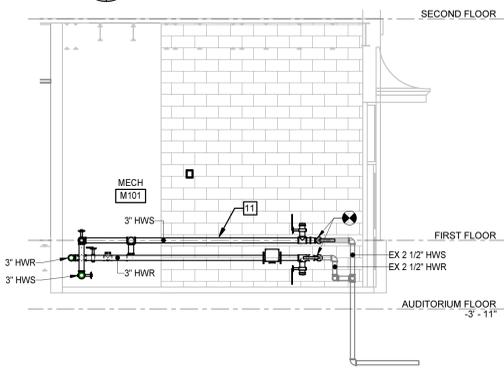
FIRST FLOOR PLAN - PIPING
 1/8" = 1'-0"



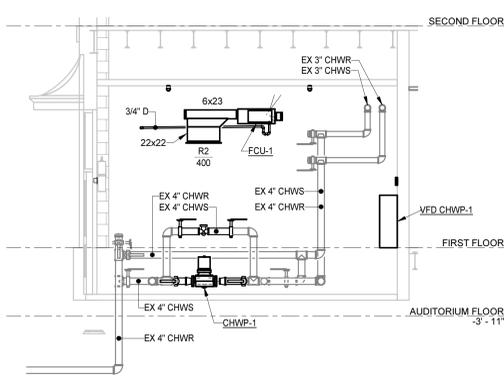
FIRST FLOOR PLAN - DUCTWORK
 1/8" = 1'-0"



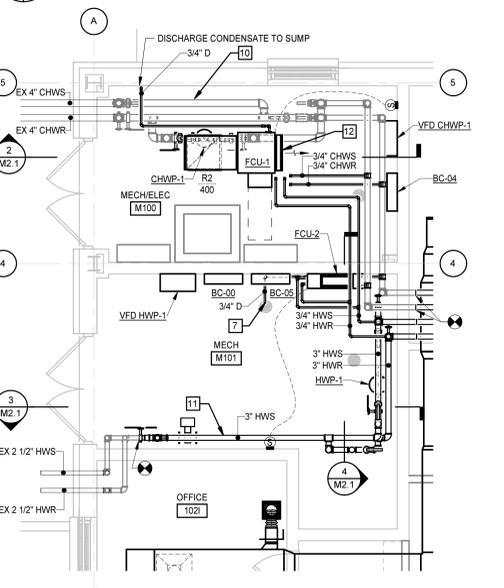
SECTION 4
 1/4" = 1'-0"



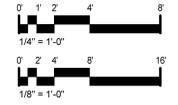
SECTION 3
 1/4" = 1'-0"



SECTION 2
 1/4" = 1'-0"

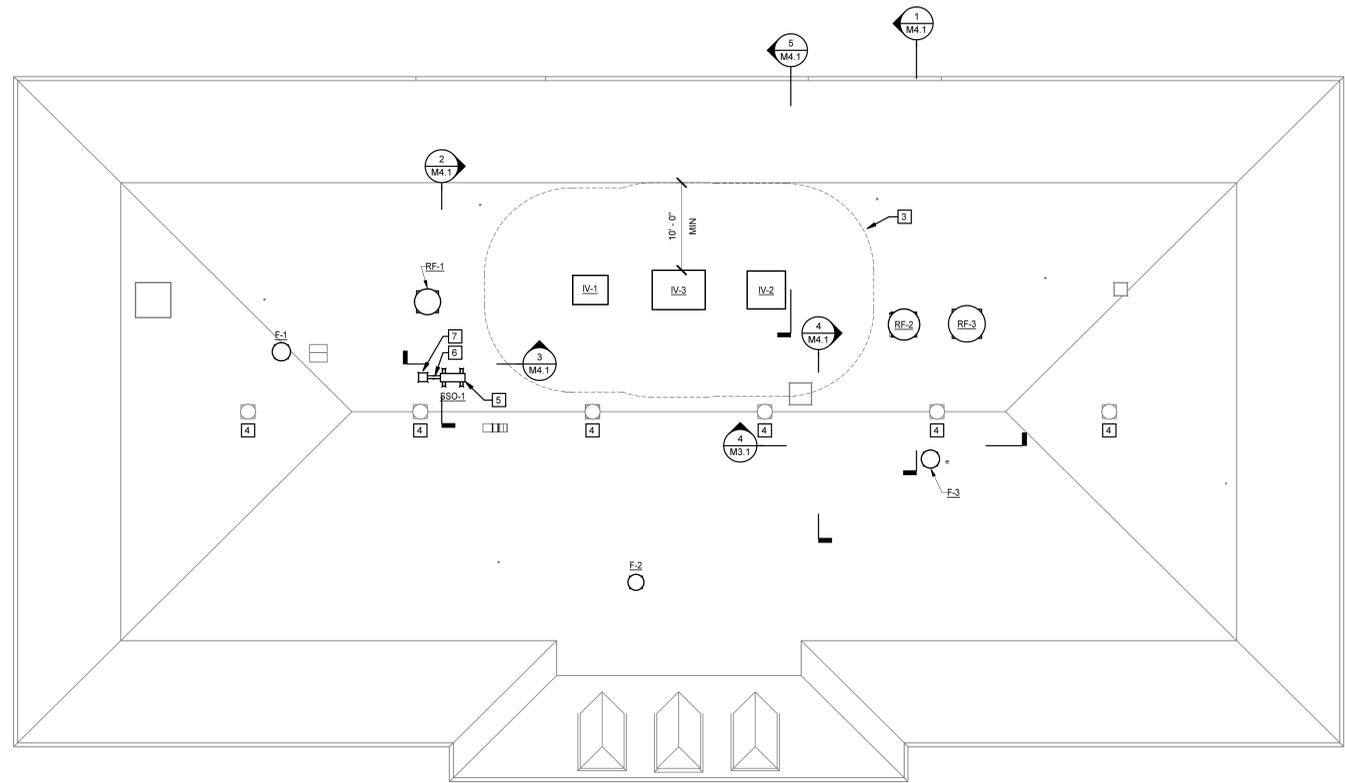


ENLARGED PLAN - M100, M101 - MECH/ELEC
 1/4" = 1'-0"

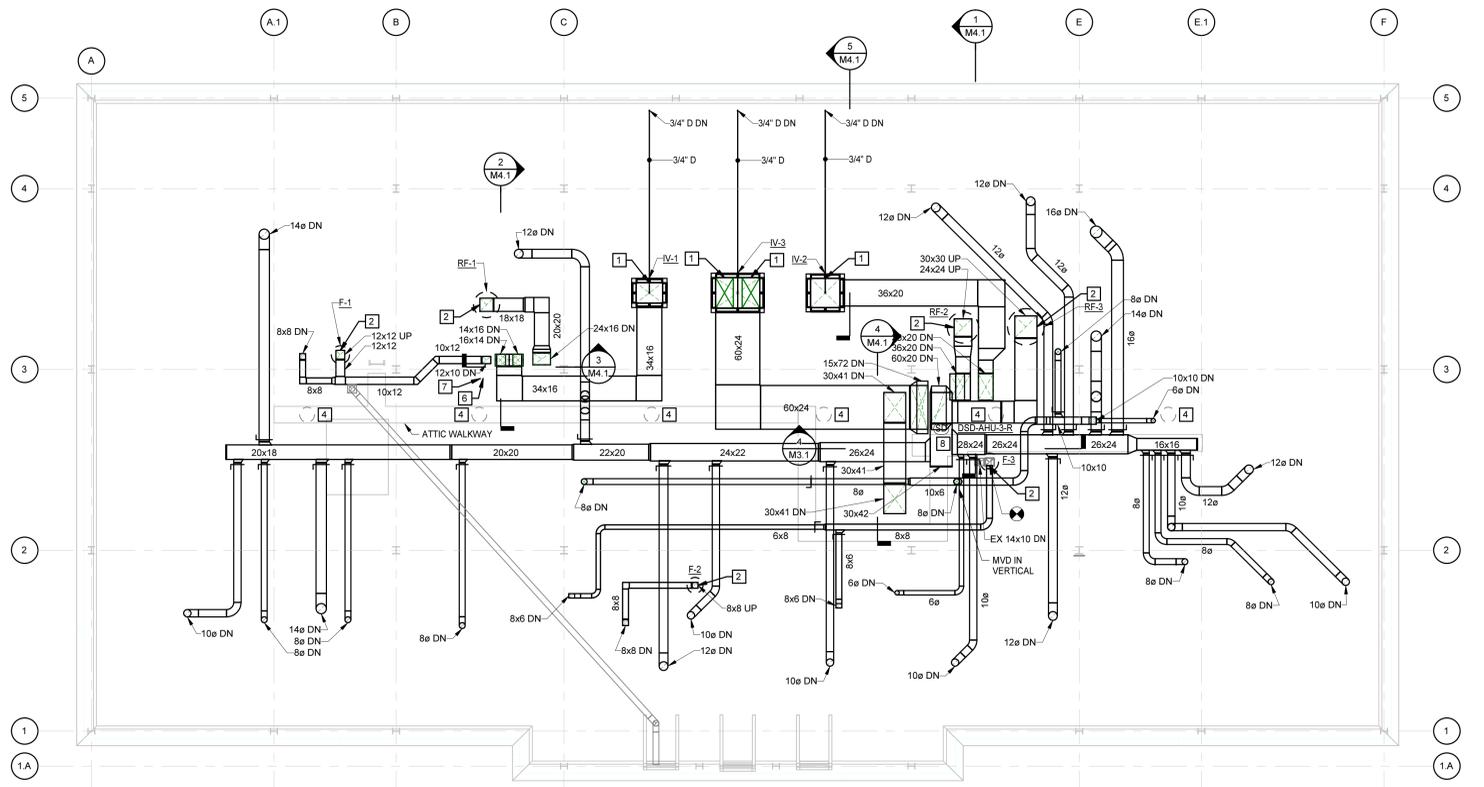


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KEYNOTES	
APPLIES TO THIS DRAWING	
1	DUCT UP TO GRAVITY VENTILATOR ON ROOF. PROVIDE SLOPED DRAIN AT BOTTOM OF DUCT. CONNECT 3/4" DRAIN TO DUCT.
2	DUCT UP TO FAN ON ROOF.
3	MINIMUM 10' CLEARANCE FROM OUTSIDE AIR INTAKE TO ANY EXHAUST OR VENT.
4	ATTIC GRAVITY VENTILATORS TO REMAIN, TYPICAL.
5	MOUNT CONDENSING UNIT ON EQUIPMENT CURBS WITH NEOPRENE MOUNTS. REFER TO CONDENSING UNIT MOUNTING DETAIL.
6	SIZE AND ROUTE REFRIGERANT SUCTION AND LIQUID PIPING IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
7	ROUTE REFRIGERANT SUCTION AND LIQUID THROUGH PIPE CURB. REFER TO REFRIGERANT PIPE PENETRATION DETAIL ON DRAWING M5.2
8	PROVIDE REMOTE INDICATOR AND TEST SWITCH WITHIN MECHANICAL ROOM M201 FOR DUCT SMOKE DETECTOR.



PROJECT
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MECH ROOF PLAN
1/8" = 1'-0"
POLAR



PROJECT
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ATTIC PLAN - DUCTWORK
1/8" = 1'-0"
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PROJECT NO:	620589
DATE:	FEBRUARY 10, 2023
REVISIONS	
DATE	DESCRIPTION

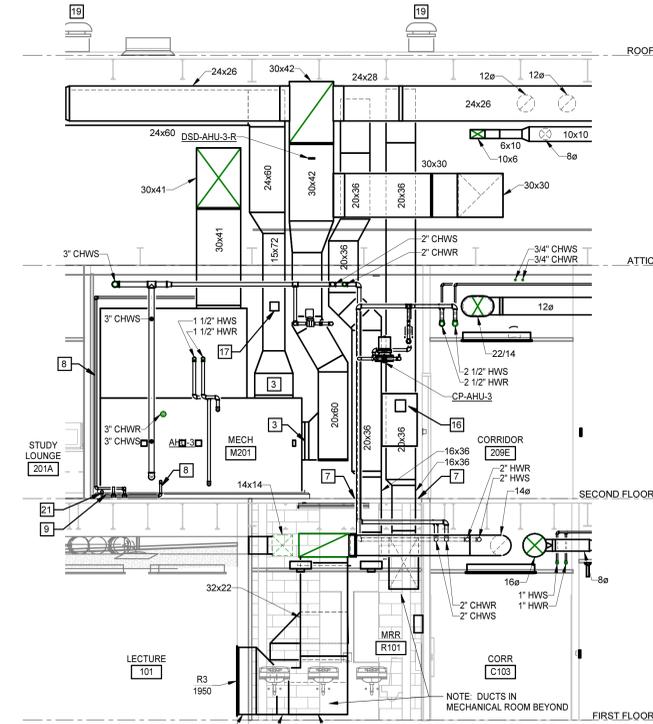
AIR HANDLING UNIT SCHEDULE

TAG	MANUFACTURER	MODEL NUMBER	SERVING	SUPPLY FAN				OUTSIDE AIR				HYDRONIC COOLING COIL								HYDRONIC HEATING COIL								ELECTRICAL DATA								ACOUSTIC PERFORMANCE												NOTES													
				DESIGN AIRFLOW (CFM)	ESP (IN WC)	DIA (IN)	FAN TYPE	FAN SPEED (RPM)	MOTOR SIZE (HP)	DESIGN AIRFLOW (CFM)	UPD (CFM)	TOTAL CAPACITY (BTUH)	SENSIBLE CAPACITY (BTUH)	EAT (°F DB)	LAT (°F WB)	EWT (°F)	LWT (°F)	DESIGN AIRFLOW (CFM)	SENSIBLE CAPACITY (BTUH)	EAT (°F)	LAT (°F)	EWT (°F)	LWT (°F)	UNIT FLOW (GPM)	WATER FLOW RATE (GPM)	WPD (FT WC)	UNIT FLOW (A)	UNIT MCA (A)	UNIT MSCP (A)	(V)	(PH)	(HZ)	WEIGHT (LBS)	63 HZ	125 HZ	250 HZ	500 HZ	1 KHZ	2 KHZ	4 KHZ	8 KHZ	63 HZ	125 HZ	250 HZ	500 HZ	1 KHZ	2 KHZ		4 KHZ	8 KHZ	63 HZ	125 HZ	250 HZ	500 HZ	1 KHZ	2 KHZ	4 KHZ	8 KHZ			
AHU-1	TRANE	CSAA 008	FIRST FLOOR - WEST	3,300	1.75	18.25	DD PF	2150	5.00	800	800	107,640	84,160	75.2	63.2	52.0	51.9	42	60	12	15.0	2,800	50,240	45.0	60.0	130	100	4	5.0	6.7	8.4	15.0	480	3	60	2,000	77	75	70	65	60	58	53	46	83	73	76	70	65	56	51	45	68	62	64	57	53	53	47	40	1-7
AHU-2	TRANE	CSAA 012	FIRST FLOOR - EAST	5,500	1.75	20.00	DD PF	2280	7.50	2,550	1,250	301,110	179,350	81.5	69.5	52.0	51.9	42	60	34	15.0	4,500	122,010	35.0	60.0	130	100	9	5.0	9.8	12.3	15.0	480	3	60	2,500	78	82	76	69	65	64	60	51	80	78	66	70	59	56	47	74	73	69	59	55	54	48	39	1-7	
AHU-3	TRANE	CSAA 025	SECOND FLOOR	10,500	1.75	24.50	DD PF	1780	15.00	3,400	1,000	647,950	330,670	80.4	71.4	52.0	51.9	42	60	72	15.0	8,100	183,290	40.0	60.0	130	100	13	5.0	18.1	22.6	40.0	480	3	60	4,500	82	87	85	83	80	75	76	70	60	60	65	57	72	65	65	60	58	57	56	49	1-7				

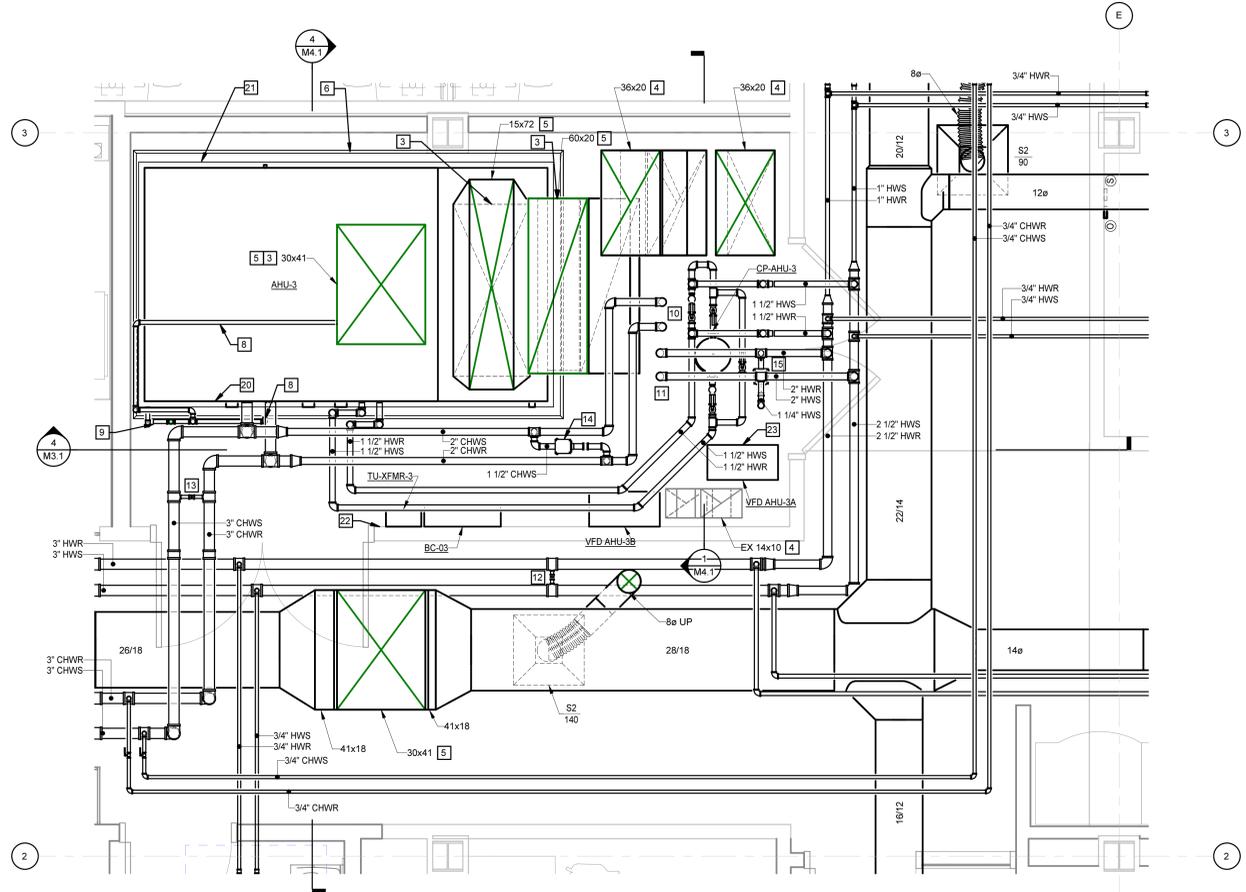
- KEYNOTES**
APPLIES TO THIS DRAWING
- ELECTRICAL PANEL, NO DUCT OR PIPING ABOVE PANEL.
 - DUCT UP TO SECOND FLOOR. FILL ANNUAL SPACE AROUND DUCT PENETRATION THROUGH FLOOR WITH MINERAL WOOL TO RESIST THE FREE PASSAGE OF FLAME AND THE PRODUCTS OF COMBUSTION IN ACCORDANCE WITH 717.6.3.2 OF THE NORTH CAROLINA STATE BUILDING CODE.
 - CONNECT TO UNIT WITH FULL SIZE OF CONNECTION. PROVIDE FLEXIBLE CONNECTOR AT EACH CONNECTION TO UNIT.
 - DUCT DOWN TO FIRST FLOOR AND UP TO ATTIC. FILL ANNUAL SPACE AROUND DUCT PENETRATION THROUGH FLOOR WITH MINERAL WOOL TO RESIST THE FREE PASSAGE OF FLAME AND THE PRODUCTS OF COMBUSTION IN ACCORDANCE WITH 717.6.3.2 OF THE NORTH CAROLINA STATE BUILDING CODE.
 - DUCT UP TO ATTIC. REFER TO ATTIC PLAN FOR CONTINUATION.
 - PROVIDE 4" THICK CONCRETE HOUSEKEEPING PAD. REFER TO STRUCTURAL DRAWINGS FOR DETAIL.
 - DUCT PENETRATES SECOND FLOOR SLAB. FILL ANNUAL SPACE AROUND DUCT PENETRATION WITH MINERAL WOOL TO RESIST THE FREE PASSAGE OF FLAME AND THE PRODUCTS OF COMBUSTION IN ACCORDANCE WITH 717.6.3.2 OF THE NORTH CAROLINA STATE BUILDING CODE.
 - PROVIDE TRENT TECHNOLOGIES CXX8V CONDENSATE TRAP. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
 - DISCHARGE CONDENSATE DRAIN TO FLOOR DRAIN.
 - 2" CHWS & CHWR DOWN.
 - 2" HWS & HWR DOWN.
 - INSTALL HOT WATER DIFFERENTIAL PRESSURE SENSOR AT THIS LOCATION.
 - INSTALL CHILLED WATER DIFFERENTIAL PRESSURE SENSOR AT THIS LOCATION.
 - CHILLED WATER SYSTEM MINIMUM FLOW BYPASS VALVE. SIZE VALVE FOR MINIMUM FLOW AS SCHEDULED IN PUMP SCHEDULE.

- KEYNOTES**
APPLIES TO THIS DRAWING
- HOT WATER SYSTEM MINIMUM FLOW BYPASS VALVE. SIZE VALVE FOR MINIMUM FLOW AS SCHEDULED IN PUMP SCHEDULE.
 - MOUNT OUTSIDE AIRFLOW MEASURING STATION IN STRAIGHT RUN OF DUCT IN VERTICAL FOR AHU-2 AT THIS LOCATION.
 - MOUNT OUTSIDE AIRFLOW MEASURING STATION IN STRAIGHT RUN OF DUCT IN VERTICAL FOR AHU-3 AT THIS LOCATION.
 - WRAP ALL RETURN DUCTWORK WITHIN MECHANICAL ROOM WITH 1" THICK ACOUSTIC DUCT WRAP/INSULATION. REFER TO SECTION 230700 FOR ADDITIONAL DETAILS.
 - ATTIC GRAVITY VENTILATORS TO REMAIN, TYPICAL.
 - PROVIDE WARNING LABEL ON SIDE OF AIR HANDLING UNIT AT ACCESS DOOR TO COOLING COIL SECTION. WARNING LABEL SHALL READ AS FOLLOWS: "CAUTION, ULTRAVIOLET LIGHT IN USE IN AIR HANDLING UNIT."
 - PROVIDE AUXILIARY DRAIN PAN UNDER ENTIRE AIR HANDLING UNIT WITH 2" LP. PROVIDE 1" DRAIN FROM AUX PAN TO FLOOR DRAIN.
 - LOCATE REMOTE INDICATOR AND TEST SWITCH FOR AHU-03 RETURN DUCT SMOKE DETECTOR IN ATTIC AT THIS LOCATION. PROVIDE LABEL ABOVE SWITCH ON WALL.
 - MOUNT VARIABLE FREQUENCY DRIVE ON UNISTRUT RACK.

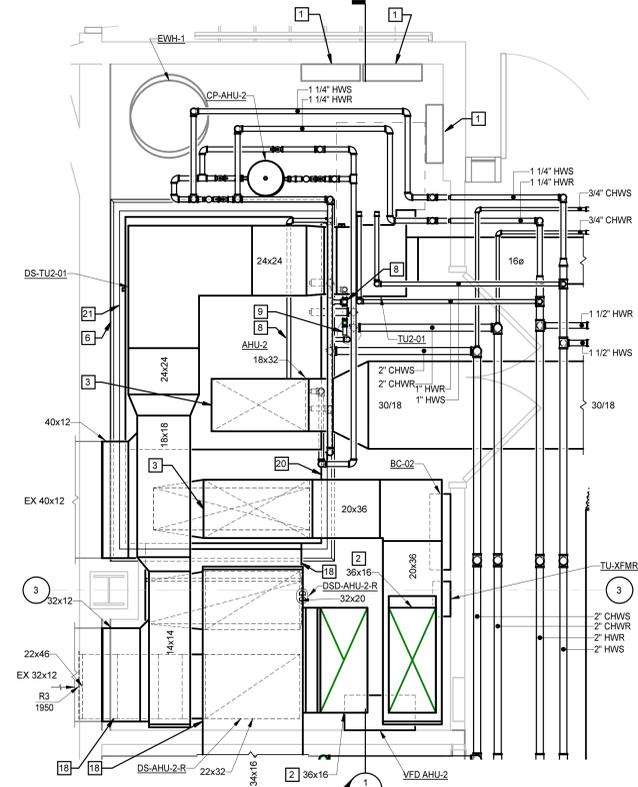
NOTE: AIR HANDLING UNITS ARE A PART OF THE EARLY EQUIPMENT PACKAGE.



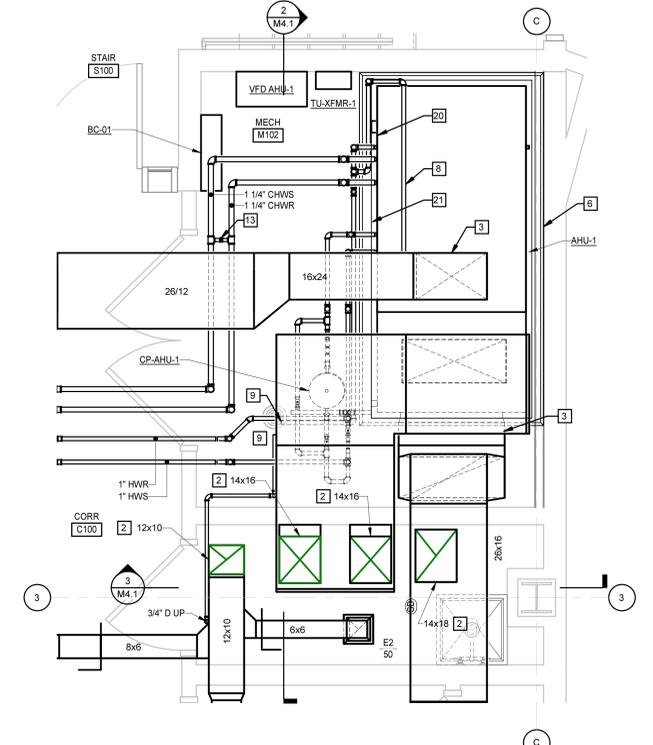
4 SECTION
1/4" = 1'-0"



3 ENLARGED PLAN - M201 - MECHANICAL
1/2" = 1'-0"



2 ENLARGED PLAN - M102 - MECHANICAL
1/2" = 1'-0"

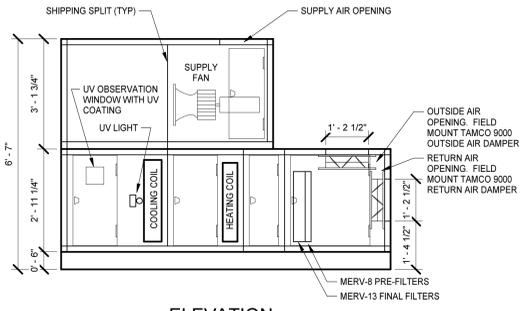


1 ENLARGED PLAN - M101 - MECHANICAL
1/2" = 1'-0"

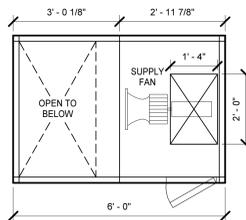


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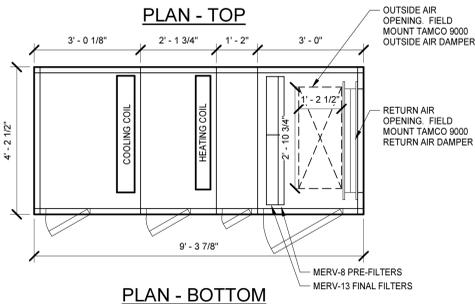
NOTE: AIR HANDLING UNITS ARE A PART OF THE EARLY EQUIPMENT PACKAGE.



ELEVATION

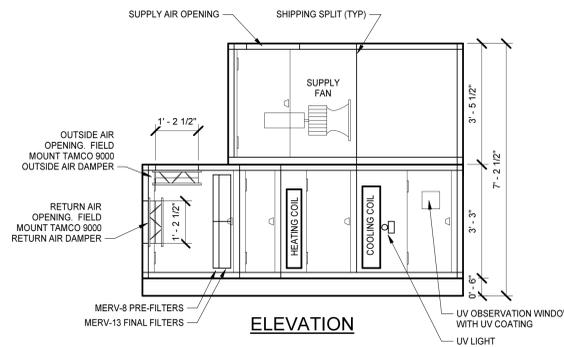


PLAN - TOP

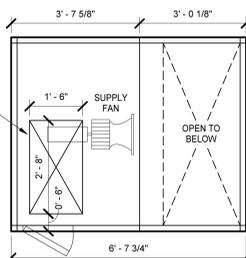


PLAN - BOTTOM

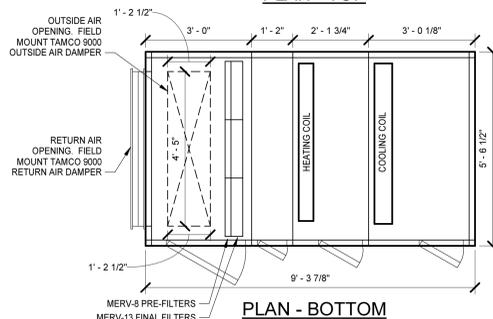
1 AHU-01 DETAIL
1/2" = 1'-0"



ELEVATION

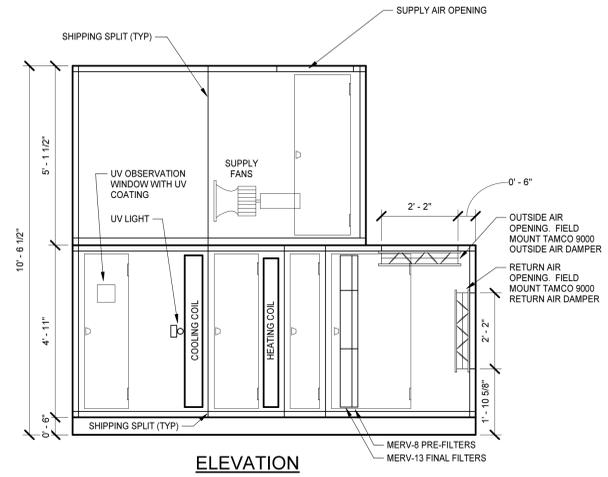


PLAN - TOP

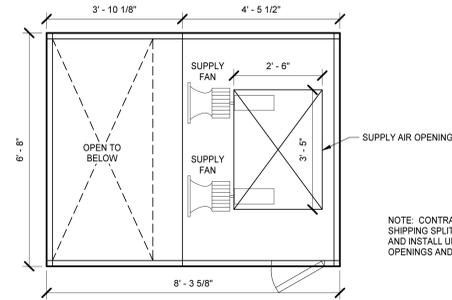


PLAN - BOTTOM

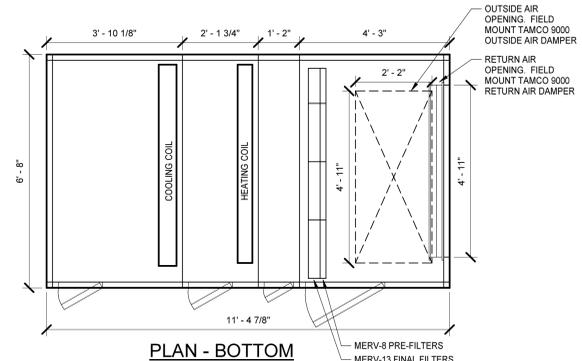
2 AHU-02 DETAIL
1/2" = 1'-0"



ELEVATION



PLAN - TOP



PLAN - BOTTOM

3 AHU-03 DETAIL
1/2" = 1'-0"



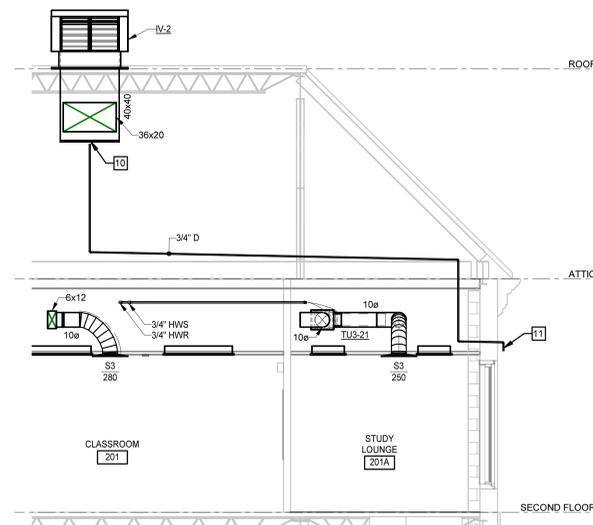
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DESCRIPTION:	



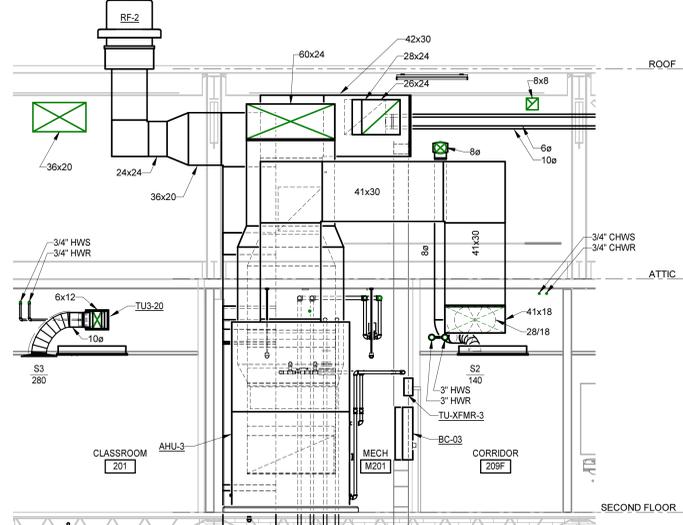
KEYNOTES

APPLIES TO THIS DRAWING

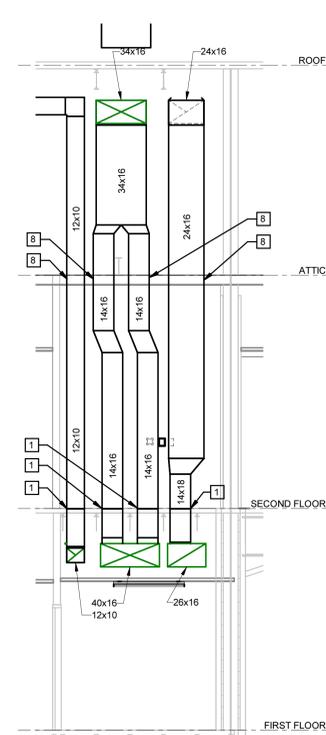
- 1 DUCT PENETRATES SECOND FLOOR SLAB. FILL ANNULAR SPACE AROUND DUCT PENETRATION WITH MINERAL WOOL TO RESIST THE FREE PASSAGE OF FLAME AND THE PRODUCTS OF COMBUSTION IN ACCORDANCE WITH 717.6.3.2 OF THE NORTH CAROLINA STATE BUILDING CODE.
- 2 PROVIDE TRENT TECHNOLOGIES CXXBV CONDENSATE TRAP. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- 3 DISCHARGE CONDENSATE DRAIN TO FLOOR DRAIN.
- 4 CONNECT TO UNIT WITH FULL SIZE OF CONNECTION. PROVIDE FLEXIBLE CONNECTOR AT EACH CONNECTION TO UNIT.
- 5 MOUNT OUTSIDE AIRFLOW MEASURING STATION IN STRAIGHT RUN OF DUCT IN VERTICAL FOR AHU-1 AT THIS LOCATION.
- 6 CHILLED WATER SYSTEM MINIMUM FLOW BYPASS VALVE. SIZE VALVE FOR MINIMUM FLOW AS SCHEDULED IN PUMP SCHEDULE.
- 7 PIPE PENETRATION THROUGH FLOOR. SEAL ALL PENETRATIONS. REFER TO SECTION 232113 FOR ADDITIONAL DETAILS.
- 8 SEAL DUCTWORK PENETRATIONS OF ATTIC GYPSUM MEMBRANE.
- 9 PROVIDE AUXILIARY DRAIN PAN UNDER ENTIRE AIR HANDLING UNIT WITH 2" LIP. PROVIDE 1" DRAIN FROM AUX PAN TO FLOOR DRAIN.
- 10 DUCT UP TO GRAVITY VENTILATOR ON ROOF. PROVIDE SLOPED DRAIN AT BOTTOM OF DUCT. CONNECT 3/4" DRAIN TO DUCT.
- 11 DISCHARGE GRAVITY VENTILATOR OVERFLOW DRAIN OUT WALL AND TURN DOWN. CUT DISCHARGE PIPE AT 45° ANGLE. PAINT TO MATCH WALL COLOR.



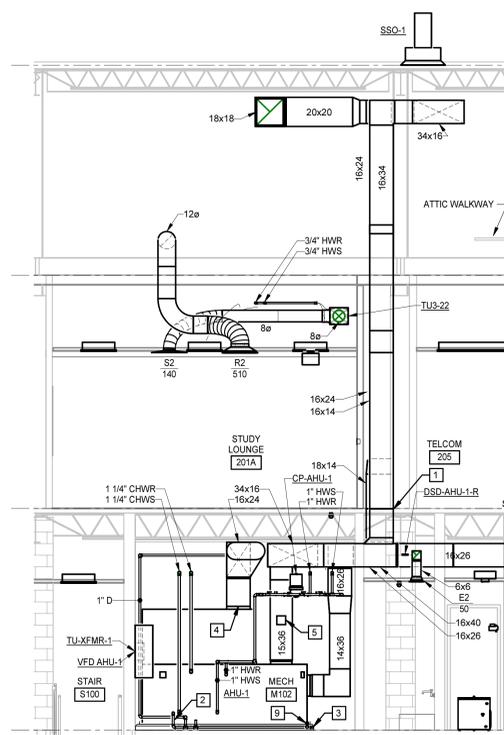
5 SECTION
M2.2 | M4.1 | 1/4" = 1'-0"



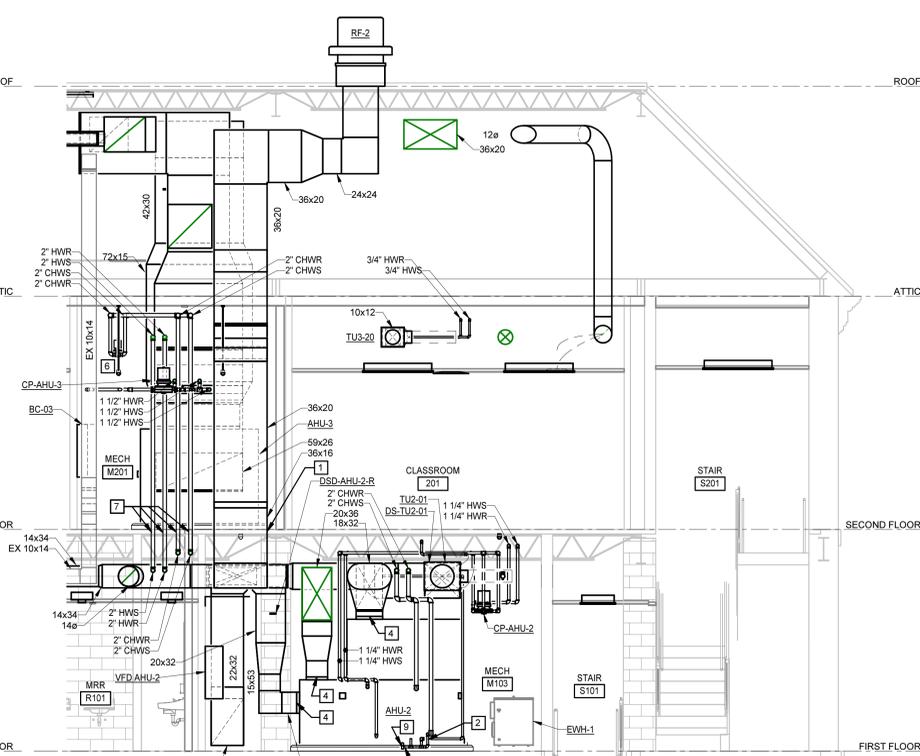
4 SECTION
M2.2 | M4.1 | 1/4" = 1'-0"



3 SECTION
M2.1 | M4.1 | 1/4" = 1'-0"



2 SECTION
M2.1 | M4.1 | 1/4" = 1'-0"



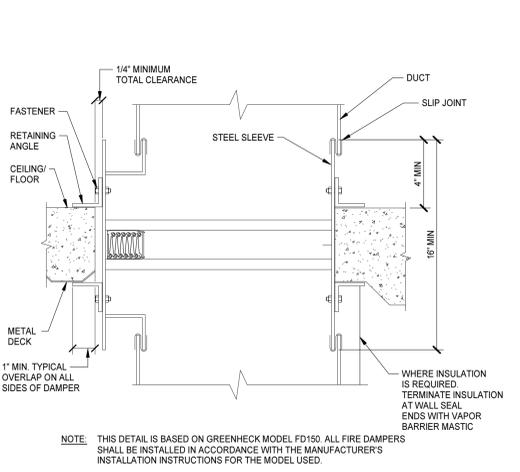
1 SECTION
M2.1 | M4.1 | 1/4" = 1'-0"



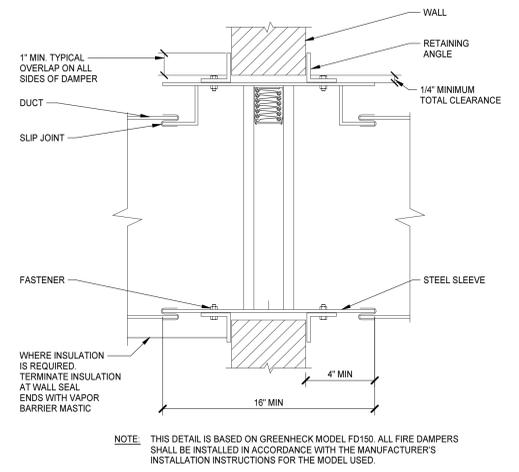
PROJECT NO:	620589
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DATE	DESCRIPTION



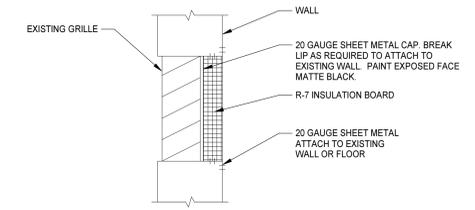
PROJECT NO:	620589
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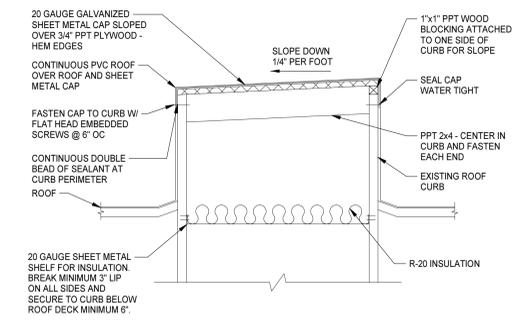
1 FIRE DAMPER INSTALLATION DETAIL - TYPE B (HORIZONTAL)
NO SCALE



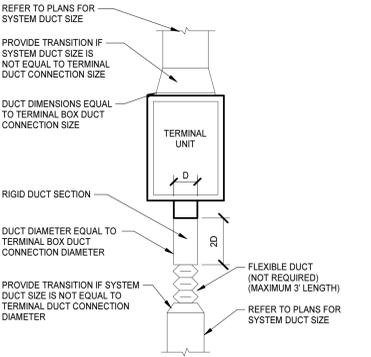
2 FIRE DAMPER INSTALLATION DETAIL - TYPE B (VERTICAL)
NO SCALE



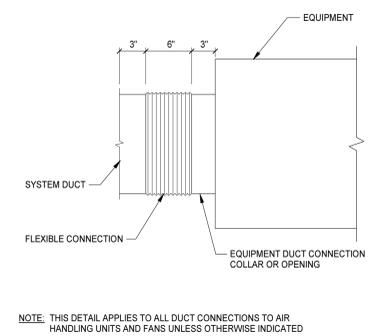
3 EXISTING STAGE RETURN GRILLE CAP DETAIL
NO SCALE



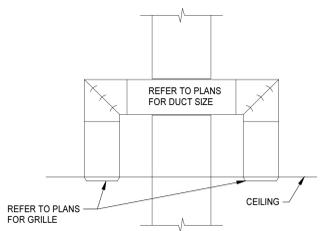
4 EXISTING ROOF CURB CAP DETAIL
NO SCALE



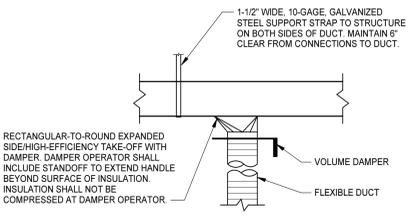
5 TERMINAL DUCT CONNECTION DETAIL
NO SCALE



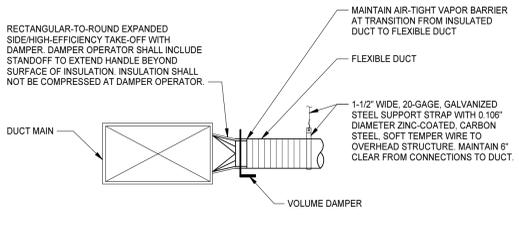
6 EQUIPMENT DUCT CONNECTION DETAIL
NO SCALE



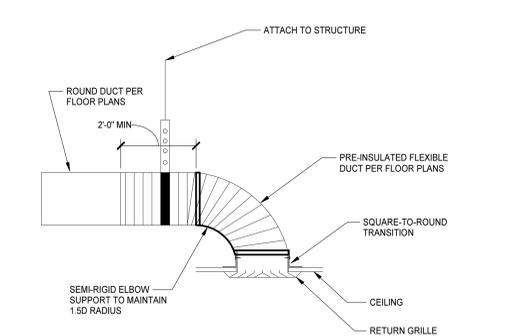
7 TRANSFER DUCT DETAIL
NO SCALE



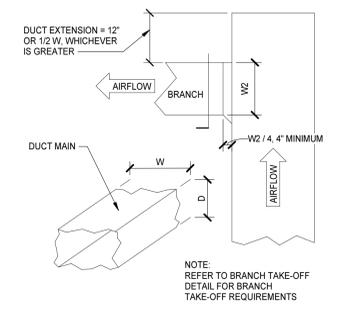
8 BRANCH CONNECTION TO DIFFUSER DETAILS
NO SCALE



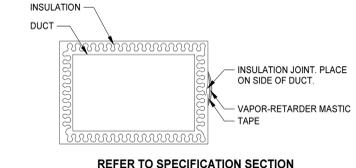
8 BRANCH CONNECTION TO DIFFUSER DETAILS
NO SCALE



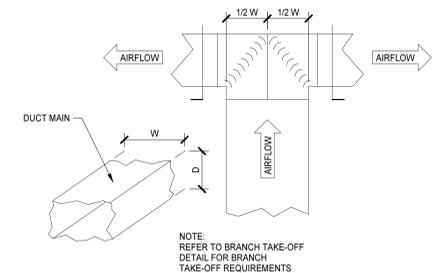
9 RETURN AIR BOOT DETAIL
NO SCALE



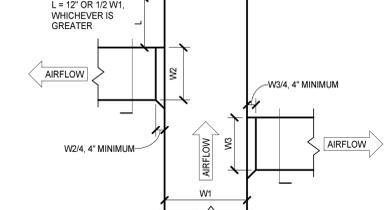
10 DUCT END OF MAIN DETAIL
NO SCALE



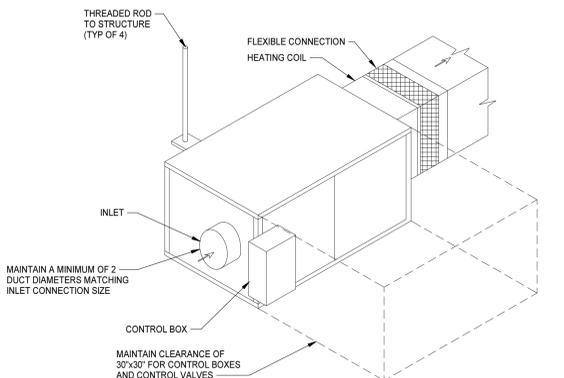
11 DUCT INSULATION JOINT DETAIL
NO SCALE



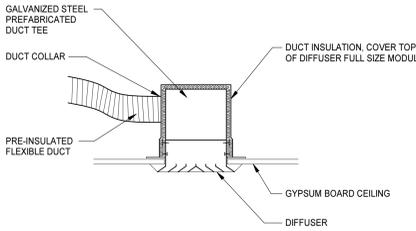
12 DUCT SPLIT WITH VANES DETAIL
NO SCALE



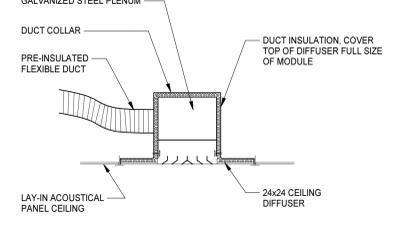
13 END OF DUCT MAIN DETAIL
NO SCALE



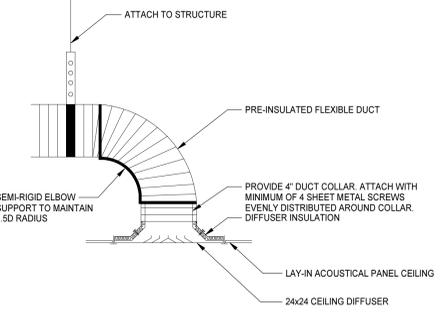
14 VAV TERMINAL UNIT DETAIL
NO SCALE



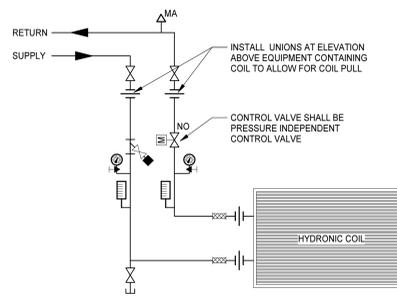
15 SUPPLY DIFFUSER CONNECTION GYP
NO SCALE



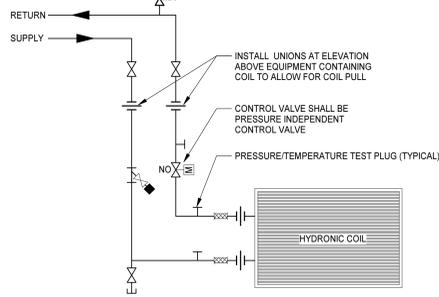
16 SUPPLY DIFFUSER CONNECTION LAYIN
NO SCALE



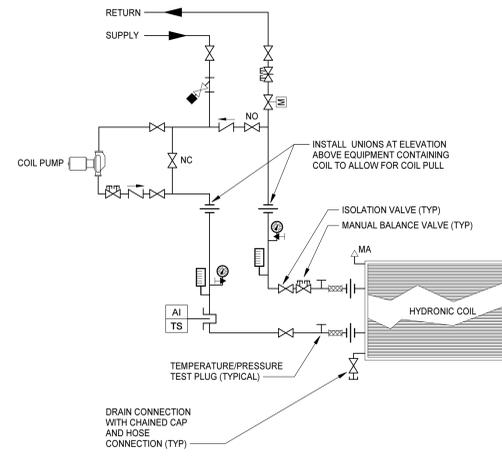
17 SUPPLY DIFFUSER CONNECTION LAYIN-COLLAR
NO SCALE



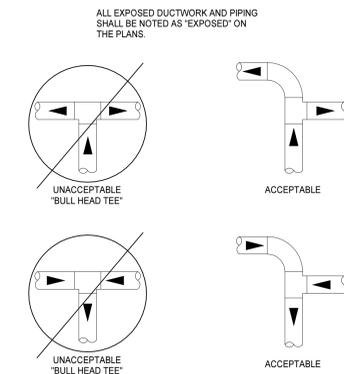
1 COOLING COIL PIPING DIAGRAM - AHU
NO SCALE



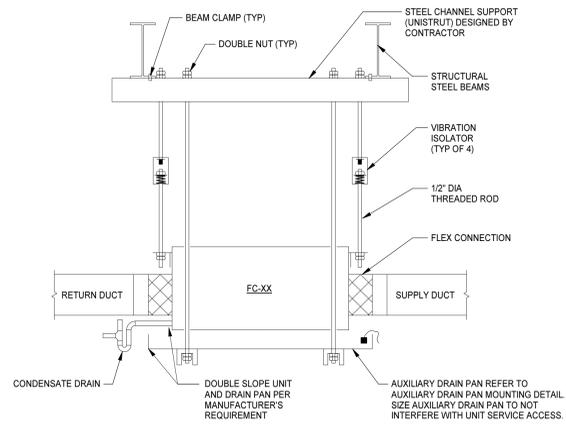
2 HYDRONIC COIL PIPING DIAGRAM - TERMINAL EQUIPMENT
NO SCALE



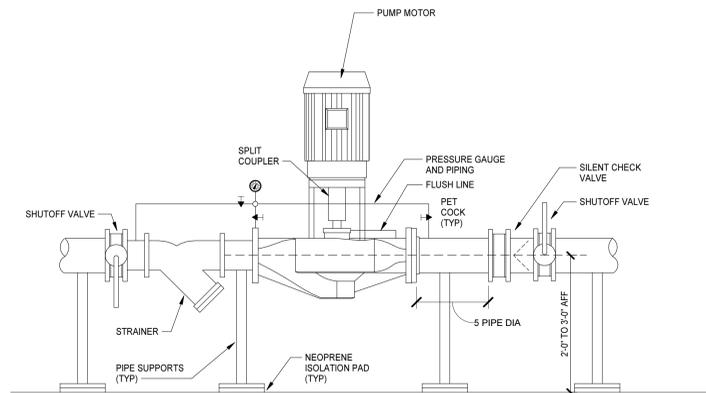
3 PRE-HEAT COIL PIPING DIAGRAM - AHU
NO SCALE



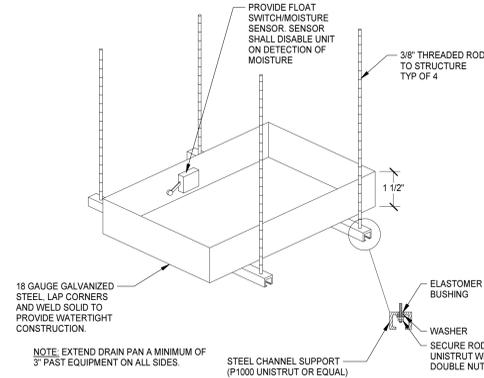
4 PIPE TEE CONFIGURATION DETAIL
NO SCALE



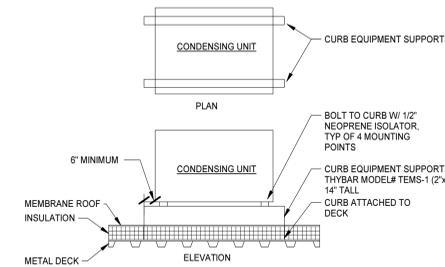
5 FAN COIL UNIT DETAIL (FC-XX)
NO SCALE



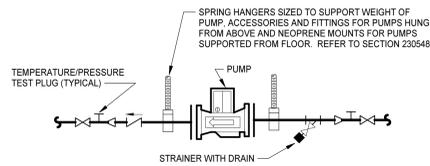
6 VERTICAL INLINE PUMP DETAIL - VARIABLE FLOW
NO SCALE



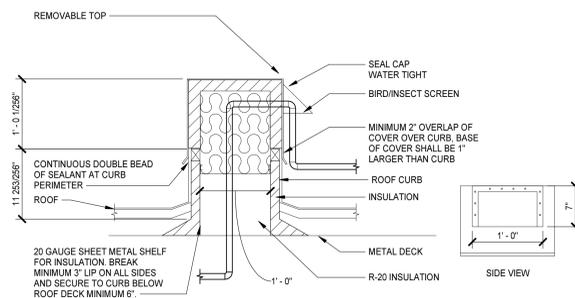
7 AUXILIARY DRAIN PAN MOUNTING DETAIL
NO SCALE



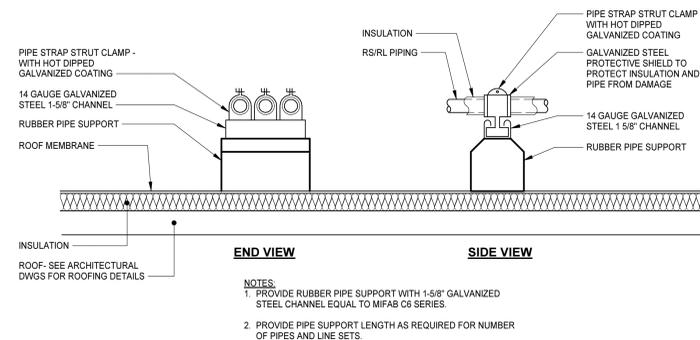
8 CONDENSING UNIT MOUNTING DETAIL
NO SCALE



9 IN LINE PUMP INSTALLATION DETAIL
NO SCALE



10 REFRIGERANT PIPE PENETRATION DETAIL
NO SCALE



11 REFRIGERANT ROOF PIPE SUPPORT DETAIL
NO SCALE

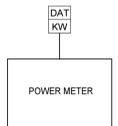


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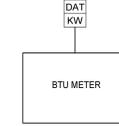
CONTROL PANEL SCHEDULE				
Mark	NUMBER	NAME	SERVING	NOTES
AHU-3A	M201	MECH		
AHU-3B	M201	MECH		
BC-03	M101	MECH	MAIN BUILDING CONTROLLER	
BC-01	M102	MECH	AHU-1	
BC-02	M103	MECH	AHU-2	
BC-03	M201	MECH	AHU-3	
BC-04	M100	MECHELEC	CHILLED WATER SYSTEM	
BC-05	M101	MECH	HOT WATER SYSTEM	
TU-XFMR-1	M102	MECH	AHU-1 TERMINAL UNITS	TRANSFORMER BANK FOR 24V POWER TO TERMINAL UNITS
TU-XFMR-2	M103	MECH	AHU-2 TERMINAL UNITS	TRANSFORMER BANK FOR 24V POWER TO TERMINAL UNITS
TU-XFMR-3	M201	MECH	AHU-3 TERMINAL UNITS	TRANSFORMER BANK FOR 24V POWER TO TERMINAL UNITS

- SEQUENCES OF CONTROL: CIRCUIT POWER MONITORING:**
- A. Switchboard Monitoring: The BAS shall monitor main distribution panel KW, KWH and phase continuously as indicated. A communication interface, coordinated with Division 25 shall be used. Refer to section 252415 for additional requirements.
- B. Phase: The BAS shall monitor for phase failure continuously. On a loss of phase the BAS shall turn off all three-phase equipment.
- C. Records: For each of the three load types, records shall be maintained for each function as follows:
- Daily:
 - The following records shall be maintained for the building:
 - At 12:00 AM, the BAS shall record the KW demand every 10 minutes. Records shall be maintained for the previous 30 days.
 - At 12:00 AM, the BAS shall record the KWH used in the previous 24 hours. This record shall be kept for two years.
 - At 12:02 AM, the BAS shall record the highest KW demand for the previous 24 hours. This record shall include the date and time. This record shall be kept for two years.
 - Weekly:
 - The following records shall be maintained for the building:
 - On the 1st day of the week at 12:01 AM, the BAS shall record the KWH used that week. This record shall be kept for the life of the building.
 - On the 1st day of the week at 12:01 AM, the BAS shall record the highest KW demand for the previous week. This record shall include the date and time. This record shall be kept for the life of the building.
 - Monthly:
 - The following records shall be maintained for the building:
 - On the 1st of the month at 12:01 AM, the BAS shall record the KWH used that month. This record shall be kept for the life of the building.
 - On the 1st of the month at 12:01 AM, the BAS shall record the highest KW demand for the previous month. This record shall include the date and time. This record shall be kept for the life of the building.
 - Annually:
 - The following records shall be maintained for the building:
 - On January 1st of each year at 12:01 AM, the BAS shall record the highest KW demand for the previous year. This record shall include the date and time. This record shall be kept for the life of the building.
 - On January 1st of each year at 12:01 AM, the BAS shall record the total KWH used during the previous year. This record shall be kept for the life of the building.



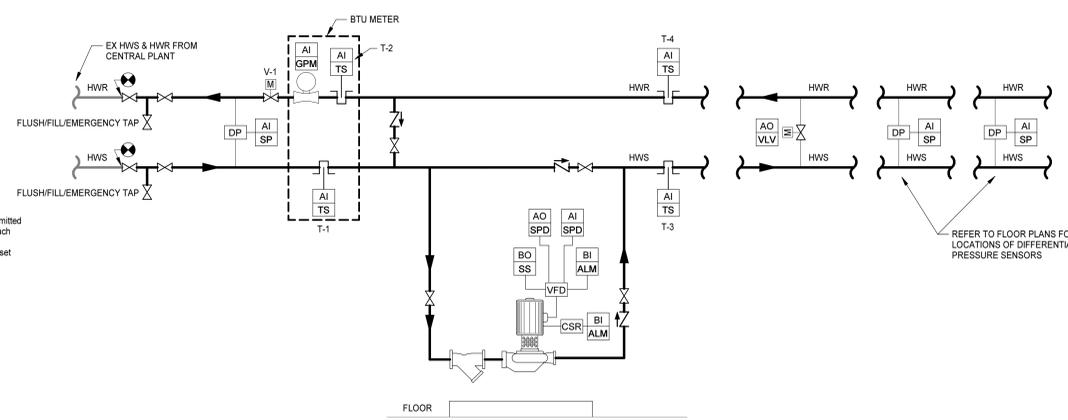
3 POWER METERING
NO SCALE

- SEQUENCES OF CONTROL: THERMAL ENERGY MONITORING:**
- A. Chilled Water Use Monitoring: The BAS shall monitor chilled water flow in GPM continuously and building supply and return chilled water temperatures in °F to calculate BTU/HR and of chilled water continuously. BAS records shall be archived as indicated.
- B. Hot Water Use Monitoring: The BAS shall monitor heating hot water flow in GPM continuously and building supply and return chilled water temperatures in °F to calculate BTU/HR and of chilled water continuously. BAS records shall be archived as indicated.
- C. Records: For the chilled water and heating hot water, records shall be maintained for each function as follows or as otherwise directed by the owner:
- Daily:
 - The following records shall be maintained for the building:
 - At 12:00 AM, the BAS shall record the KBTUs used in the previous 24 hours. This record shall be kept for two years.
 - Weekly:
 - The following records shall be maintained for the building:
 - On the 1st day of the week at 12:01 AM, the BAS shall record the KBTU's used that week. This record shall be kept for the life of the building.
 - Monthly:
 - The following records shall be maintained for the building:
 - On the 1st of the month at 12:01 AM, the BAS shall record the KBTU's used that month. This record shall be kept for the life of the building.
 - Annually:
 - The following records shall be maintained for the building:
 - On January 1st of each year at 12:01 AM, the BAS shall record the total KBTU's used during the previous year. This record shall be kept for the life of the building.



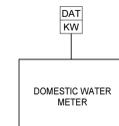
4 THERMAL ENERGY MONITORING
NO SCALE

- SEQUENCES OF CONTROL: CENTRAL HEATING HOT WATER:**
- A. General: Hot water shall be produced by existing campus hot water plant. Hot water supply and return shall be piped from the existing loop to the mechanical room on the first floor. Hot water is pumped to coils throughout the building and then returned to the campus hot water loop.
- B. Initial Set points:
- Hot Water Return Temperature: 100°F
 - Hot Water Supply Temperature: 130°F
- C. Modes of Operation:
- Standard Operation:
 - Hot water return control valve V-1 shall modulate to maintain the loop leaving water temperature, as measured by T-2, back to the plant at 100°F (adj).
 - Failure and Alarms:
 - When a valve fails to open or fails to close an alarm shall be generated to the BAS
 - Pump Failure:
 - Should the hot water pump fail, or it be off for any reason, the loop return control valve V-1 shall open fully. Each coil valve shall operate under its normal operation to provide heating as required.
 - System Startup: On a call for heating by any hot water coil, the hot water system shall be started.
 - System Shutdown: Upon a closure of all hot water valves, the hot water pump shall be disabled.
- D. Hot Water Pump Operation
- On a call for heating, the hot water pump shall be started. The hot water pump shall be controlled as follows.
 - Hot water pump control: The BAS shall start and stop the hot water pump and modulate its speed as required by system demands. The system shall maintain differential pressure as transmitted by remote pressure differential transmitters. The BAS shall have field programmable independent set points, the value of which shall be the optimum differential pressure as designed for each remote location. Minimum pump run time shall be 15 minutes.
 - Minimum flow control: The system minimum flow shall be maintained by a 2-way bypass valve. If the pump is at minimum speed, and the differential pressure in the loop increases above set point, then the bypass valve shall be modulated open to maintain the system differential pressure sensors at set point.
 - If the pump is at the minimum speed and the bypass valve is open for 15 minutes (adj), then the pump shall be disabled, and the bypass valve closed. The building shall run on plant pressure alone.
 - If the differential pressure drops below setpoint for 15 minutes (adj), then the pump shall restart and shall follow the sequence above.
 - The control system shall include a failure alarm for the hot water pump. Pump failure alarm shall be a high level alarm to the BAS.
- E. System shutdown: On a fall in demand and there are no heating coils calling for hot water, the hot water system shall be deactivated.
- F. Temperatures for building hot water supply/return and loop supply/return as sensed by temperature sensors shall be indicated on the BAS head end graphics.
- G. Control Points / Set points
- Control Points
 - Hot water supply temperature, campus loop (T-1)
 - Hot water return temperature, campus loop (T-2)
 - Hot water supply temperature, building (T-3)
 - Hot water return temperature, building (T-4)
 - Hot water flow, loop
 - Hot water pump speed
 - Hot water pump on/off status
 - Hot water differential pressure, campus loop
 - Hot water zone differential pressure 1
 - Hot water zone differential pressure 2



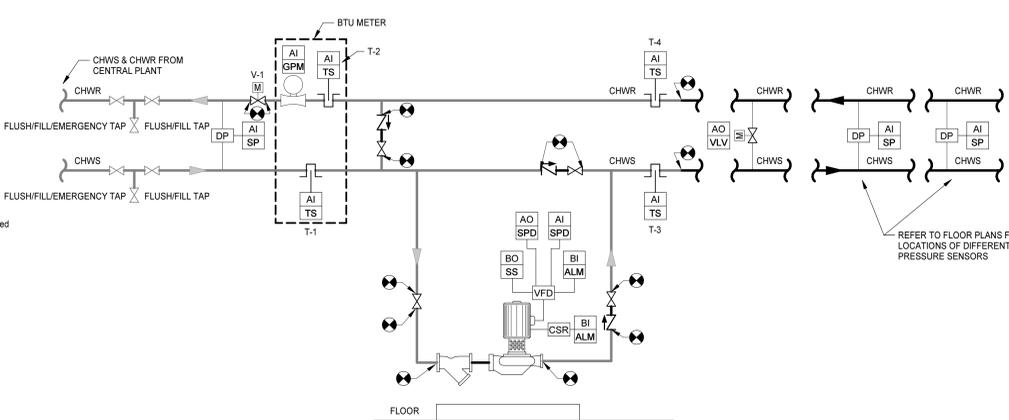
2 HOT WATER SYSTEM SCHEMATIC
NO SCALE

- SEQUENCES OF CONTROL: DOMESTIC WATER USE MONITORING:**
- A. General: The BAS shall monitor domestic water flow in total volume and instantaneous flow rate continuously. A communication interface shall be used. The BAS shall communicate with this device and be capable of receiving and sending data to be viewed at the head end graphics. The communication interface shall have direct Modbus by the meter manufacturer. The BAS shall record the following parameters:
- Totalized Volume
 - Instantaneous Flowrate
- B. Records: For the chilled water and heating hot water, records shall be maintained for each function as follows or as otherwise directed by the owner:
- Daily:
 - The following records shall be maintained for the building:
 - At 12:00 AM, the BAS shall record the gallons used in the previous 24 hours. This record shall be kept for two years.
 - Weekly:
 - The following records shall be maintained for the building:
 - On the 1st day of the week at 12:01 AM, the BAS shall record the gallons used that week. This record shall be kept for the life of the building.
 - Monthly:
 - The following records shall be maintained for the building:
 - On the 1st of the month at 12:01 AM, the BAS shall record the gallons used that month. This record shall be kept for the life of the building.
 - Annually:
 - The following records shall be maintained for the building:
 - On January 1st of each year at 12:01 AM, the BAS shall record the total gallons used during the previous year. This record shall be kept for the life of the building.



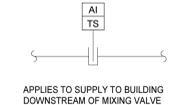
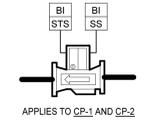
7 DOMESTIC WATER USE MONITORING
NO SCALE

- SEQUENCES OF CONTROL: CENTRAL CHILLED WATER:**
- A. General: Chilled water shall be produced by existing campus chilled water plant. Chilled water supply and return shall be piped from the existing loop to the mechanical room on the first floor. Chilled water is pumped to coils throughout the building and then returned to the campus chilled water loop.
- B. Initial Set points:
- Chilled Water Return Temperature: 60°F
 - Chilled Water Supply Temperature: 42°F
- C. Modes of Operation:
- Standard Operation:
 - Chilled water return control valve V-1 shall modulate to maintain the loop leaving water temperature, as measured by T-2, back to the plant at 60°F (adj).
 - Failure and Alarms:
 - When a valve fails to open or fails to close, or when a pump fails, an alarm shall be generated to the BAS.
 - System Startup: On a call for cooling by any chilled water coil, the chilled water system shall be started.
 - Pump Failure:
 - Should the chilled water pump fail, or it be off for any reason, the loop return control valve V-1 shall open fully. Each coil valve shall operate under its normal operation to provide cooling as required.
- D. Chilled Water Pump Operation
- On a call for cooling the chilled water pump shall be started. The chilled water pump shall be controlled as follows.
 - Chilled water pump control: The BAS shall start and stop the chilled water pump and modulate its speed as required by system demands. The system shall maintain differential pressure as transmitted by remote pressure differential transmitters. The BAS shall have field programmable independent set points, the value of which shall be the optimum differential pressure as designed for each remote location. Minimum pump run time shall be 15 minutes.
 - Minimum flow control: The system minimum flow shall be maintained by a 2-way bypass valve. If the pump is at minimum speed, and the differential pressure in the loop increases above set point, then the bypass valve shall be modulated open to maintain the system differential pressure sensors at set point.
 - If the pump is at the minimum speed and the bypass valve is open for 15 minutes (adj), then the pump shall be disabled, and the bypass valve closed. The building shall run on plant pressure alone.
 - If the differential pressure drops below setpoint for 15 minutes (adj), then the pump shall restart and shall follow the sequence above.
 - The control system shall include a failure alarm for the chilled water pump. Pump failure alarm shall be a high level alarm to the BAS.
- E. System shutdown: On a fall in demand so no cooling coil is calling for chilled water, the chilled water system shall be deactivated and the building chilled water isolation valve shall be closed.
- F. Temperatures for building chilled water supply/return and loop supply/return as sensed by temperature sensors shall be indicated on the BAS head end graphics.
- G. Control Points / Set points
- Control Points
 - Chilled water supply temperature, campus loop (T-1)
 - Chilled water return temperature, campus loop (T-2)
 - Chilled water supply temperature, building (T-3)
 - Chilled water return temperature, building (T-4)
 - Chilled water flow, campus loop
 - Chilled water pump speed
 - Chilled water pump on/off status
 - Chilled water differential pressure, campus loop
 - Chilled water zone differential pressure 1
 - Chilled water zone differential pressure 2



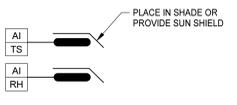
1 CHILLED WATER SYSTEM SCHEMATIC
NO SCALE

- SEQUENCES OF OPERATION: DOMESTIC CIRCULATING PUMPS**
- A. Initial Set Points:
- Occupied hours: Pump On
 - Unoccupied hours: Pump Off
- C. During occupied and unoccupied hours the BAS shall command the pump to set point. A separate schedule should be adjustable at the head end graphics to vary circulating pump operation hours.
- SEQUENCES OF OPERATION: DOMESTIC HOT WATER TEMPERATURE**
- A. Description: The domestic hot temperature shall be monitored downstream of the thermostatic mixing valve. If the temperature rises above the high limit set point an alarm should be indicated on the head end graphics.
- B. Initial Set Point:
- Alarm: 140°F (Adjustable)



6 DOMESTIC WATER PUMP AND TEMPERATURE MONITORING
NO SCALE

- SEQUENCES OF OPERATION: OUTSIDE AIR SENSORS**
- A. Graphics:
- A system graphic similar to control diagram shall be developed and readable from the BAS head end.
- B. Temperature: The BAS shall monitor outside air temperature as sensed by the outside air temperature sensor.
- C. Relative Humidity: The BAS shall monitor outside air relative humidity as sensed by the outside air humidity sensor.
- D. Wet Bulb:
- Wet bulb temperature shall be calculated based on outside dry bulb temperature and relative humidity.



5 OUTDOOR AIR SENSORS
NO SCALE

PROJECT NO:	620589
DATE:	FEBRUARY 10, 2023
REVISIONS	
DATE	DESCRIPTION



PROJECT NO:	620589
DATE:	FEBRUARY 10, 2023
REVISIONS	
DATE	DESCRIPTION

GENERAL NOTES

- A. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.
- B. FOLLOW MOUNTING HEIGHTS INDICATED IN THE ELECTRICAL LEGEND UNLESS OTHERWISE INDICATED. MEASURE ALL MOUNTING HEIGHTS FROM THE DEVICE CENTER LINE UNLESS OTHERWISE INDICATED.
- C. FIELD VERIFY EXACT FEEDER LOCATIONS FOR MECHANICAL EQUIPMENT PRIOR TO ROUGH-IN.
- D. EQUIPMENT CONNECTIONS ARE INDICATED IN THEIR APPROXIMATE LOCATIONS. VERIFY EXACT LOCATIONS OF ALL CONNECTIONS WITH OTHER TRADES SUPPLYING EQUIPMENT TO AVOID CONFLICTS AT INSTALLATION.
- E. LOCATED ALL SWITCHES FOR LOCAL CONTROL OF LIGHTING ON STRIKE SIDE OF SINGLE DOORS UNLESS OTHERWISE INDICATED.
- F. PROVIDE SPECIFIC BREAKER ARRANGEMENT FOR THE PANEL BOARDS WHEREVER PHYSICALLY POSSIBLE. PROVIDE AS-BUILT DRAWINGS INDICATING ACTUAL BRANCH CIRCUIT ARRANGEMENT. PROVIDE TYPE WRITTEN PANELBOARD DIRECTORIES INDICATING ACTUAL BRANCH CIRCUIT ARRANGEMENT.
- G. PROVIDE AS-BUILT DRAWINGS INDICATING ACTUAL BRANCH CIRCUIT ARRANGEMENT. PROVIDE TYPEWRITTEN PANELBOARD DIRECTORIES INDICATING ACTUAL BRANCH CIRCUIT ARRANGEMENT. HAND WRITTEN SCHEDULES ARE NOT ACCEPTABLE. CONTRACTOR SHALL FIELD VERIFY EXISTING CIRCUIT SPACE NAMES AND NUMBERS AND PROVIDE FINAL DESCRIPTION IN TYPED PANELBOARD DIRECTORY.
- H. ALL CONDUIT RUNS INDICATED ARE DIAGRAMMATIC. COORDINATE ROUTING IN ALL SPACES WITH OTHER TRADES.
- I. ALL PANELBOARDS INDICATED ARE HOUSED IN A SINGLE WIDTH ENCLOSURE. UNO, THE CONTRACTOR SHALL FIELD VERIFY ROOM LAYOUT AND ADJUST ACCORDINGLY, AT NO COST TO THE OWNER, IF PROVIDING ANY PANELBOARD ENCLOSURES.
- J. WHERE POWER AND COMMUNICATION OUTLETS ARE INDICATED IN CLOSE PROXIMITY ON THE DRAWINGS, FIELD COORDINATE THE LOCATIONS TO PLACE THE OUTLETS ADJACENT TO EACH OTHER.
- K. ALL EXTERIOR RECEPTACLES SHALL BE LABELED "WIR" - WEATHER RESISTANT.
- L. WHEN GROUPING MULTIPLE LINE TO NEUTRAL BRANCH CIRCUITS IN A CONDUIT, PROVIDE DEDICATED COLOR CODED NEUTRAL CONDUCTORS FOR EACH CIRCUIT. DO NOT USE BREAKER TIES AND SHARED NEUTRALS EVEN THOUGH PERMITTED BY NEC.
- M. PROVIDE A 2" WIDE YELLOW LINE PAINTED ON THE FLOOR INDICATING THE ELECTRICAL WORKING SPACE IN FRONT OF ALL ELECTRICAL PANELS IN ELECTRICAL ROOMS. REFER TO PLANS FOR ELECTRICAL WORKING SPACE DETAILS. STENCIL "NO STORAGE" IN 2" HIGH, YELLOW LETTERS CENTERED IN THE OUTLINED AREA.
- N. ALL ELECTRICAL INSPECTIONS WITH THE STATE CONSTRUCTION OFFICE INSPECTOR SHALL BE MONDAY THRU FRIDAY UNLESS SPECIFICALLY EXEMPTED AND APPROVED BY THE STATE CONSTRUCTION OFFICE.
- O. ALL VOICE, DATA AND CATV CABLE DEMOLITION AND INSTALLATION SHALL BE PERFORMED BY A CERTIFIED COMMSCOPE SYSTEMAX CONTRACTOR.

ABBREVIATIONS

1P	SINGLE PHASE
3P	THREE PHASE
3R	WEATHERPROOF (NEMA 3R)
A	AMPS
AFF	ABOVE FINISHED FLOOR
AL	ALUMINUM
BFC	BELOW FINISHED CEILING
BKR	BREAKER
BOT	BOTTOM OF TRAY (CABLE TRAY)
C	CONDUIT
CATV	COMMUNITY ANTENNA TELEVISION (CABLE)
CB	CIRCUIT BREAKER
CBL	CABLE
CCTV	CLOSED CIRCUIT TELEVISION
CXT	CIRCUIT
CLG	CEILING
CLR	CLEAR
CO	COMPANY
COMB	COMBINATION
COMM	COMMUNICATIONS
CU	COPPER
DIA	DIAMETER
DISC	DISCONNECT
DIV	DIVISION
DWG	DRAWING
EBH	ELECTRIC BASEBOARD HEATER
EC	EMPTY CONDUIT
ECS	EMERGENCY COMMUNICATIONS STATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EPO	EMERGENCY POWER OFF
EQ	EQUIPMENT
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EX	EXISTING
EXT	EXTERIOR
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPS
G	GROUND
GE	GROUND FAULT PROTECTION FOR EQUIPMENT, 6-50mA PER NEC 427.22 (PROVIDE ACCESSORY FOR INDICATED BREAKER)
GFI	GROUND FAULT CIRCUIT INTERRUPT
GFP	GROUND FAULT PROTECTION FOR PERSONNEL, 4-6mA (PROVIDE ACCESSORY FOR INDICATED BREAKER)
HKP	HOUSEKEEPING PAD
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
Hz	HERTZ
IAW	IN ACCORDANCE WITH
IG	ISOLATED GROUND
J-BOX	JUNCTION BOX
KHFS	KITCHEN HOOD FIRE SUPPRESSION SYSTEM
KHz	KILOHERTZ
KVA	KILOVOLT AMPS
KW	KILOWATTS
KWH	KILOWATT HOURS
L	LOCKOUT TO PREVENT UNAUTHORIZED SWITCHING (PROVIDE ACCESSORY FOR INDICATED BREAKER)
LC	ROUTE CIRCUIT TO LOAD VIA LIGHTING CONTACTOR. REFER TO LC SCHEDULE
LED	LIGHT EMITTING DIODE
LTD	LIGHTING
LTS	LIGHTS
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MH	METAL HALIDE
MHz	MEGAHERTZ
MIN	MINIMUM
ML	MAINTENANCE LOCK (PROVIDE ACCESSORY FOR INDICATED BREAKER)
MLO	MAIN LUG ONLY
MNS	MASS NOTIFICATION SYSTEM
MOCP	MAXIMUM OVER CURRENT PROTECTION
MTD	MOUNTED
N	NEUTRAL
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NO	NUMBER
NOFCI	OWNER FURNISHED CONTRACTOR INSTALLED
P	PILOT LIGHT (AT THE SWITCH HANDLE)
PBD	PANELBOARD
PD	PROTECTIVE DEVICE
RCPT	RECEPTACLE
REC	RECEPTACLE
SEC	SECURITY
SPD	SURGE PROTECTIVE DEVICE
SPEC.	SPECIFICATION(S)
ST	SHUNT TRIP, 120V COIL (PROVIDE ACCESSORY FOR INDICATED BREAKER)
SW	SWITCH
SWBD	SWITCHBOARD
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TC	TELECOMMUNICATIONS CLOSET
TELECOM	TELECOMMUNICATIONS
TGB	TELECOMMUNICATIONS GROUNDING BUS BAR
TMBG	TELECOMMUNICATIONS MAIN GROUNDING BUS BAR
TYP	TYPICAL
UNO	UNLESS NOTED (INDICATED) OTHERWISE
V	VOLTS
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS
W	WITH
WG	WIRE GUARD
WP	WEATHERPROOF
XFER	TRANSFER
XFR	TRANSFORMER

LIGHTING LEGEND

- SYMBOL DESCRIPTION**
- 5 LIGHT SWITCH, RATED 120/277 VOLTS, 20-AMPS, MOUNT AT +3'-10" AFF. SUBSCRIPT/SUPERSCRIPT LETTERS, NUMBERS, AND SYMBOLS INDICATES SWITCH TYPE AS FOLLOWS:
 - 3 INDICATES 3-WAY LIGHT SWITCH
 - 4 INDICATES 4-WAY LIGHT SWITCH
 - D INDICATES DIMMER SWITCH
 - P INDICATES PILOT LIGHT, ON WHEN SWITCH IS ON
 - K INDICATES KEY OPERATED LIGHT SWITCH
 - OS INDICATES SWITCH WITH INTEGRAL OCCUPANCY SENSOR
 - OD INDICATES DIMMER SWITCH WITH INTEGRAL OCCUPANCY SENSOR
 - OS² INDICATES DUAL RELAY INTEGRAL OCCUPANCY SENSOR, WIRED FOR MULTI-LEVEL SWITCHING
 - LOWER CASE LETTER INDICATES LIGHT FIXTURE CONTROL DESIGNATION
 - INDICATES SWITCHES WIRED FOR INBOARD/OUTBOARD SWITCHING.
 - OMNI-DIRECTIONAL LIGHTING CONTROL OCCUPANCY DETECTOR, CEILING MOUNT.
 - DIRECTIONAL LIGHTING CONTROL OCCUPANCY DETECTOR, WALL MOUNT AT 6" BELOW FINISHED CEILING.
 - PHOTOELECTRIC CELL FOR LIGHTING CONTROL, WALL MOUNT AT +10'-0" AFF. AIM NORTH.
 - LIGHT FIXTURE, CEILING MOUNT.
 - LIGHT FIXTURE ON EMERGENCY POWER, CEILING MOUNT.
 - LIGHTING FIXTURE.
 - LIGHTING FIXTURE ON EMERGENCY POWER.
 - WALL WASHER LIGHTING FIXTURE.
 - LIGHT FIXTURE, WALL MOUNT, HEIGHT AS INDICATED.
 - EMERGENCY EGRESS LIGHTING FIXTURE, WITH BATTERY PACK, WALL MOUNT AT +8'-0" AFF.
 - EXIT SIGN, CEILING MOUNT, DIRECTIONAL ARROWS AS INDICATED. SHADING INDICATES FACE(S) OF SIGN.
 - EXIT SIGN, WALL MOUNT, DIRECTIONAL ARROWS AS INDICATED. SHADING INDICATES FACE(S) OF SIGN.
 - TRACK LIGHTS.
 - LIGHT FIXTURE, POLE MOUNT.
 - SPORTS LIGHTING POLE.

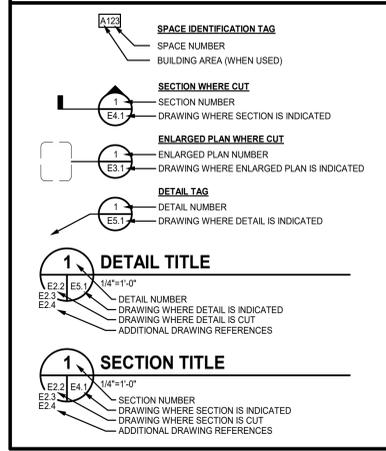
DEMOLITION LEGEND

- SYMBOL DESCRIPTION**
- REMOVE DEVICES, EQUIPMENT, IN ACCORDANCE WITH THE GENERAL DEMOLITION NOTES.
 - DEVICES ARE EXISTING TO REMAIN.
 - WITHIN HATCHED AREAS, DISCONNECT AND REMOVE ALL ELECTRICAL MATERIALS INCLUDING BUT NOT LIMITED TO LIGHTS, DEVICES, EQUIPMENT, SPEAKERS, FIRE ALARM, COMMUNICATIONS, AND CIRCUITRY.

GENERAL DEMOLITION NOTES

- A. PROVIDE ALL ELECTRICAL DEMOLITION WORK REQUIRED TO INSTALL THE WORK INDICATED. REMOVE, REROUTE, AND RECONNECT ALL BRANCH CIRCUITS THAT WILL REMAIN IN USE BUT INTERFERES WITH THE WORK.
- B. REMOVE ALL EXISTING CONDUITS THAT WILL NOT BE REUSED AND WHERE THEY WILL BE EXPOSED AFTER COMPLETION, ABANDON ALL OTHERS IN THE WALLS ONLY. DISCONNECT ALL WIRING INDICATED AND/OR REQUIRED TO BE REMOVED FROM ALL POWER SOURCES. REMOVE ALL WIRING FROM ABANDONED CONDUITS AND PROVIDE BLANK COVER PLATES FOR BOXES NOT UTILIZED FOR THE WORK.
- C. MAINTAIN CONTINUITY OF ALL EXISTING CIRCUITS TO REMAIN OR PORTIONS THEREOF AFFECTED BY THE WORK.
- D. BEFORE DEMOLITION, VERIFY WITH THE OWNER ALL EQUIPMENT TO BE SALVAGED TO OWNER AND NOT REMOVED FROM THE SITE. FOR ALL REMAINING EQUIPMENT INDICATED FOR REMOVAL (AND NOT RELOCATED), REMOVE AND DISPOSE IN A LEGAL MANNER.
- E. EXERCISE CARE IN REMOVING DEMOLITION ITEMS. REPAIR OR REPLACE ALL DAMAGE CAUSED TO EXISTING CONSTRUCTION AND EQUIPMENT TO REMAIN.
- F. DRAWINGS ARE BASED UPON EXISTING PLANS AND FIELD INVESTIGATION WITHOUT DEMOLITION. VISIT THE EXISTING BUILDING AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AND EXAMINE ALL DRAWINGS TO AVOID CONFLICTS.
- G. WHERE DEMOLITION OF TELECOMMUNICATIONS DEVICES OCCUR, REMOVE CABLING NOT INDICATED TO REMAIN BACK TO POINT OF ORIGIN.
- H. DEMOLITION FLOOR PLANS ARE PROVIDED FOR REFERENCE ONLY TO AID IN DEFINING THE SCOPE OF DEMOLITION WORK.

GRAPHICS SYMBOLS LEGEND



AVERAGE MAINTAINED ILLUMINATION LEVELS

TASK	FOOTCANDLES
CLASSROOMS	55
OFFICES	50
ELECTRICAL ROOMS	30
MECHANICAL ROOMS	30
LOBBIES/CORRIDORS	15
TOILETS	20

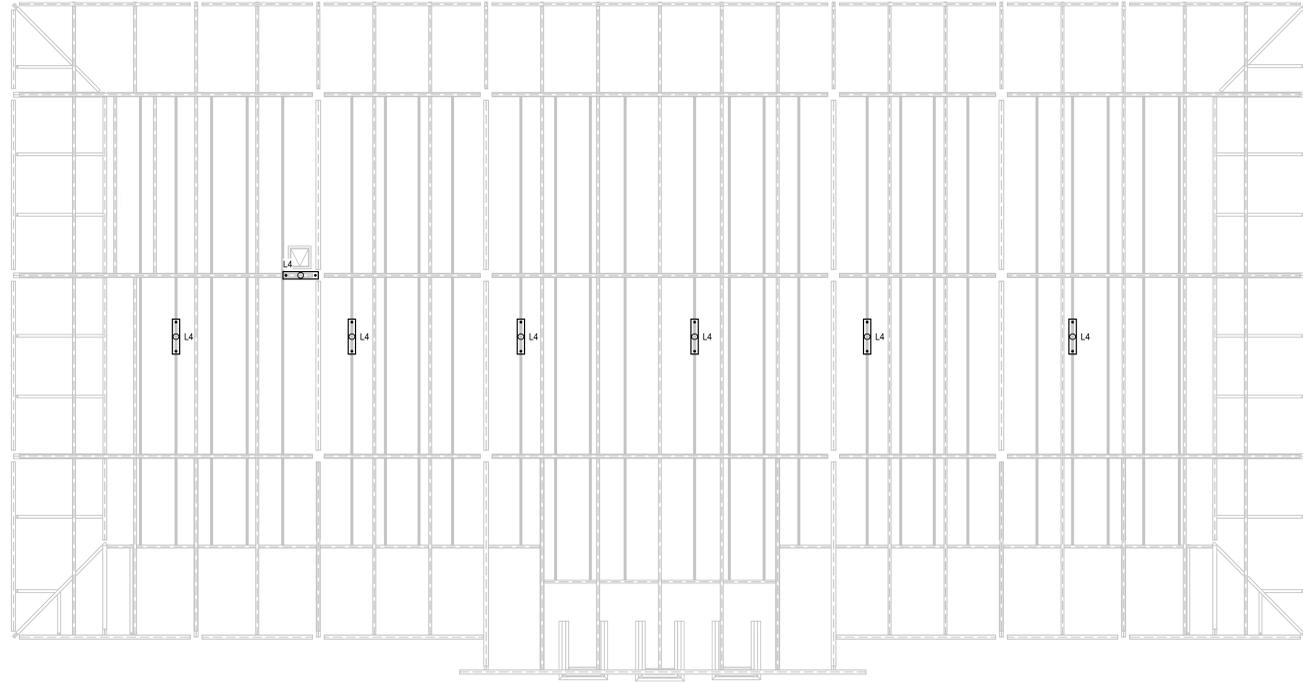
POWER LEGEND

- SYMBOL DESCRIPTION**
- APPLIANCE RECEPTACLE, MOUNT AT +1'-6" AFF. PROVIDE NEMA CONFIGURATION TO MATCH PLUG FOR EQUIPMENT SERVED.
 - APPLIANCE RECEPTACLE, MOUNT AT +1'-6" AFF. PROVIDE NEMA CONFIGURATION TO MATCH PLUG FOR EQUIPMENT SERVED. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICE.
 - DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6" AFF.
 - DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6" AFF. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICE.
 - DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10" AFF.
 - DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10" AFF. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICE.
 - DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +7'-6" AFF.
 - DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +7'-6" AFF. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICE.
 - SIMPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6" AFF.
 - GFCI DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6" AFF. PROVIDE NEMA 3R "WHILE IN USE" ENCLOSURE.
 - GFCI DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6" AFF.
 - GFCI DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6" AFF. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICE.
 - GFCI DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10" AFF.
 - GFCI DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10" AFF. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICE.
 - DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6" AFF.
 - DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6" AFF. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICE.
 - DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10" AFF.
 - DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10" AFF. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICE.
 - RECEPTACLE MOUNTED BESIDE AN TELECOMMUNICATION OUTLET. PROVIDE RECEPTACLE BASED ON "P" IN LEFT SYMBOL BOX. "P" INSIDE LEFT SYMBOL BOX SHALL BE ONE OF THE FOLLOWING RECEPTACLE SYMBOLS ABOVE. "T" IN RIGHT SYMBOL BOX MAY DIFFER.
 - ELEVATOR TWO-WAY COMMUNICATION SYSTEM INTERCOM. REFER TO DETAIL ON E4.1
 - POWER/COMMUNICATIONS/AV RECESSED FLOOR BOX. REFER TO "TELECOMMUNICATIONS OUTLET CONDUIT DETAIL" FOR BOX AND CONDUIT REQUIREMENTS.
 - POWER/COMMUNICATIONS/AV RECESSED POKE-THRU. REFER TO "POKE-THRU DETAIL" FOR BOX AND CONDUIT REQUIREMENTS.
 - SYSTEM FURNITURE FLEX POWER CABLE CONNECTION VIA FLOOR BOX. COORDINATE W/ SYSTEM FURNITURE PROVIDER PRIOR TO ROUGH-IN.
 - SYSTEM FURNITURE FLEX POWER CABLE CONNECTION VIA FLUSH WALL BOX MOUNTED 6" AFF. COORDINATE W/FURNITURE PROVIDER PRIOR TO ROUGH-IN.
 - OVERHEAD DOOR CONTROLLER
 - METALLIC SURFACE RACEWAY, DEVICES AS INDICATED, MOUNT AT +1'-6" AFF, UNO.
 - JUNCTION BOX, CONCEALED ABOVE CEILING, UNO.
 - POWER FOR POWER TOWEL DISPENSER. REFER TO ARCHITECTURAL PLANS FOR HEIGHT.
 - MUSHROOM SWITCH, HEAVY DUTY WITH LEGEND PLATE. MOUNT W/HANDLE AT +3'-10" AFF, UNO.
 - MANUAL MOTOR STARTER, OVERLOAD PROTECTION AS REQUIRED PER NAME PLATE RATINGS, WITH 'ON' INDICATOR PILOT LIGHT. FLUSH MOUNT W/HANDLE AT +3'-10" AFF, UNO.
 - DISCONNECT SWITCH, FUSIBLE OR NON-FUSIBLE AS INDICATED. MOUNT W/HANDLE AT +4'-6" AFF, UNO.
 - MAGNETIC MOTOR STARTER, WITH OVERLOAD RELAYS AS REQUIRED TO SERVE MANUFACTURER REQUIREMENTS OF EQUIPMENT SERVED. PROVIDE WITH HAND-OFF-AUTOMATIC SELECTOR SWITCH AND INDICATOR LIGHTS. MOUNT W/HANDLE AT +4'-6" AFF, UNO.
 - COMBINATION MAGNETIC STARTER AND DISCONNECT SWITCH, WITH OVERLOAD ELEMENTS AND FUSING AS REQUIRED TO SERVE MANUFACTURER REQUIREMENTS OF EQUIPMENT SERVED. PROVIDE WITH HAND-OFF-AUTOMATIC SELECTOR SWITCH AND INDICATOR LIGHTS. MOUNT W/HANDLE AT +4'-6" AFF, UNO.
 - EQUIPMENT POWER CONNECTION.
 - MOTOR CONNECTION.
 - CONNECTION TO DIV 23 MOTORIZED DAMPER, VERIFY LOCATION.
 - POWER FOR ELECTRIC DOOR LOCK CONNECTION.
 - EMERGENCY GENERATOR.
 - BRANCH CIRCUIT RUN CONCEALED, UNO. DASHED INDICATES CIRCUITRY REQUIRED TO BE RUN BELOW SLAB.
 - BRANCH CIRCUIT HOME RUN TO PANELBOARD AND CIRCUIT INDICATED.
 - PANELBOARD.
 - TRANSFORMER, PROVIDE CONCRETE HOUSEKEEPING PAD UNLESS NOTED OTHERWISE.
 - RELAY, NORMALLY OPEN.
 - RELAY, NORMALLY CLOSED.
 - FEEDER TAG. REFER TO FEEDER SCHEDULE ON DWG E5.1.

ONE LINE DIAGRAM LEGEND

- SYMBOL DESCRIPTION**
- CIRCUIT BREAKER
 - FUSED SWITCH
 - TRANSFORMER
 - TRANSFER SWITCH
 - FEEDER DESIGNATION
 - CT CURRENT TRANSFORMER
 - POTENTIAL TRANSFORMER

 **ATTIC PLAN - LIGHTING**
1/8" = 1'-0"

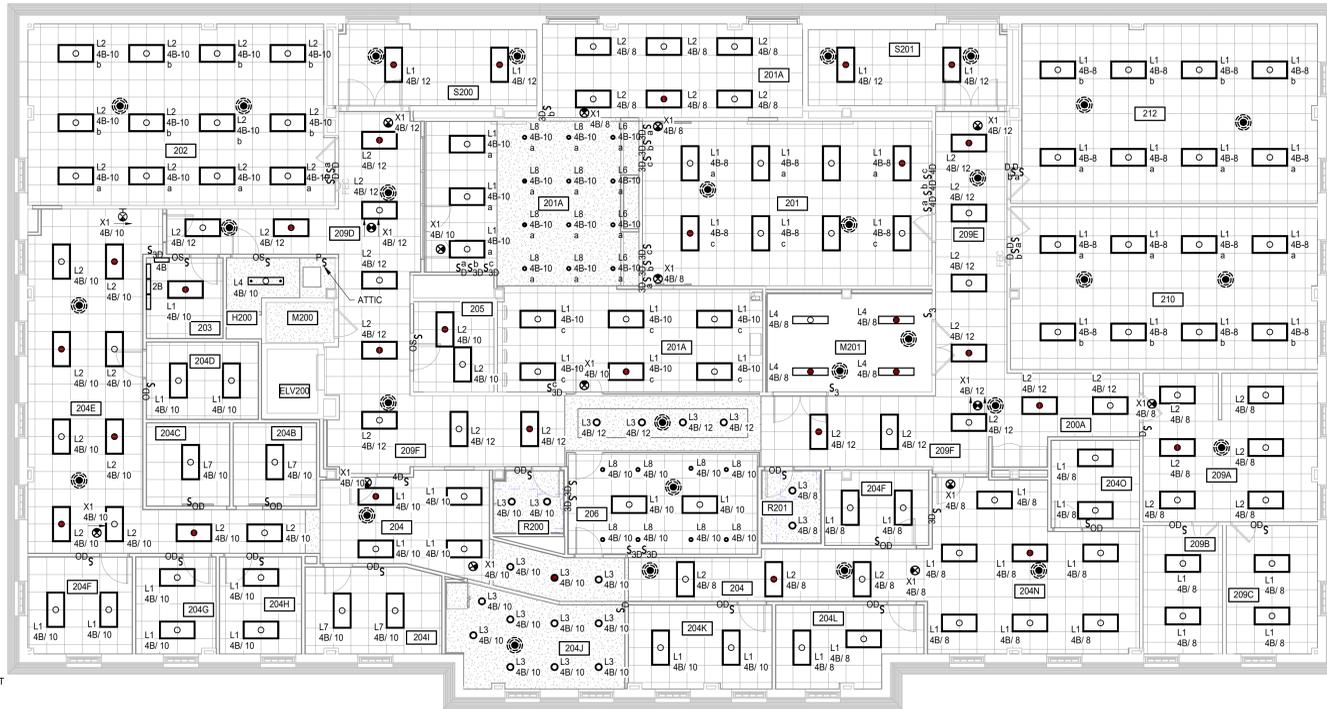


**PROGRESS
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CONSTRUCTION**

ALDERMAN AND KING HALL RENOVATIONS - KING HALL

University of North Carolina Wilmington
SC0#22-24639-01A
601 Hamilton Drive, Wilmington, NC 28403

PROJECT NO:	620589
DATE:	September 2, 2022
REVISIONS	
DATE	DESCRIPTION

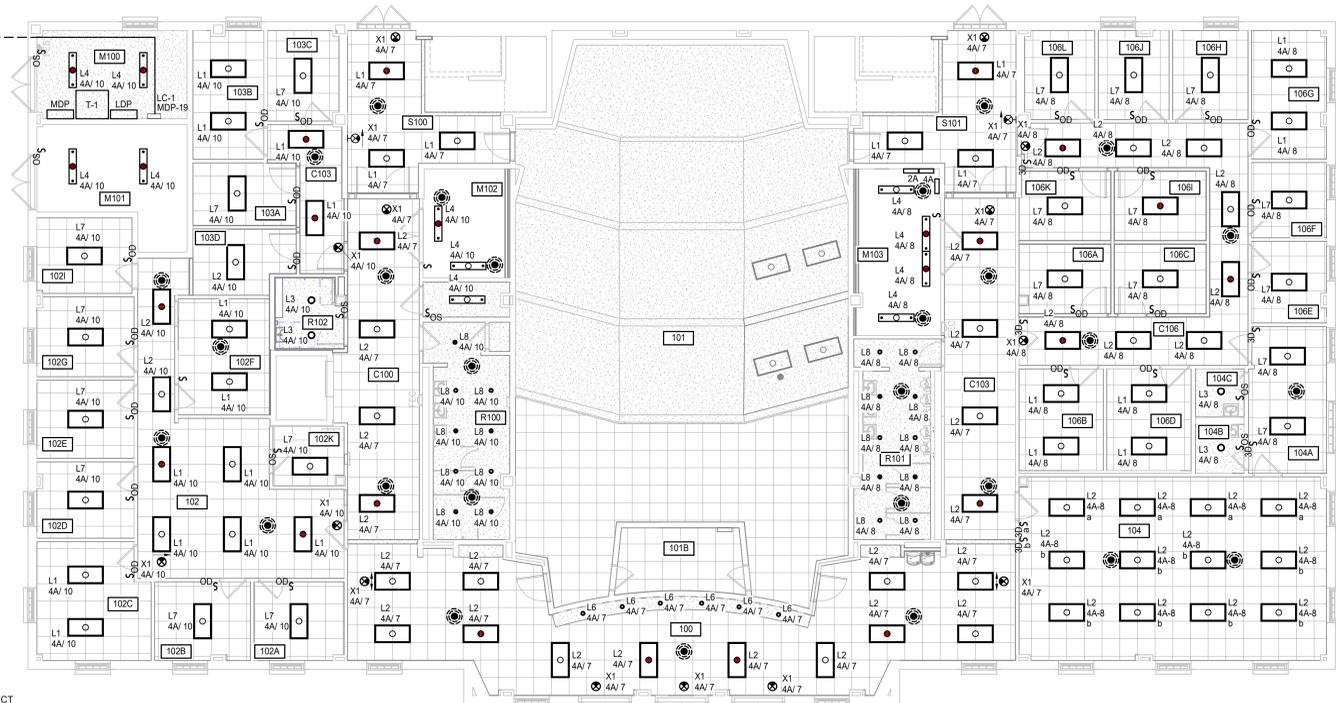
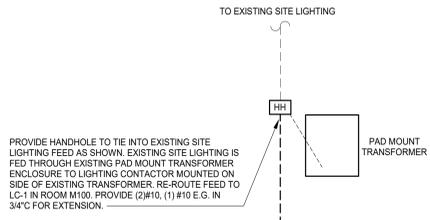


PROJECT N
POLAR
SECOND FLOOR PLAN - LIGHTING
1/8" = 1'-0"

LIGHT FIXTURE SCHEDULE													
TYPE	DESCRIPTION	MANUFACTURER	FIXTURE	SERIES NO.	VOLTAGE	WATTAGE	LUMENS	TYPE	LAMP	COLOR TEMP.	MOUNTING	OPTIONS	COMMENTS
L1	2X4 ARCHITECTURAL TROFFER	HUBBELL	LCAT 24	277 V	40	5786 lm	LED	4000 K	RECESSED	1	RECESSED	1	
L2	2X4 ARCHITECTURAL TROFFER	HUBBELL	LCAT 24	277 V	26	3626 lm	LED	4000 K	RECESSED	1	RECESSED	1	
L3	4" DOWNLIGHT	ALPHABET	NJARD	277 V	22	1730 lm	LED	4000 K	RECESSED	1, 2	RECESSED	1, 2	
L4	5" TROFFER FIXTURE	HUBBELL	LC1	277 V	42	5411 lm	LED	4000 K	SURFACE	1	RECESSED	1	
L6	4" WALL WASH DOWNLIGHT	ALPHABET	NJARD	277 V	11	1460 lm	LED	4000 K	RECESSED	1	RECESSED	1	
L7	2X4 ARCHITECTURAL TROFFER	HUBBELL	LCAT 24	277 V	59	7321 lm	LED	4000 K	RECESSED	1	RECESSED	1	
L8	4" DOWNLIGHT	ALPHABET	NJARD	277 V	15	1130 lm	LED	4000 K	RECESSED	1, 2	RECESSED	1, 2	
X1	EXIT SIGN	HUBBELL	CE	277 V	1		LED	4000 K	UNIVERSAL	3	UNIVERSAL	3	

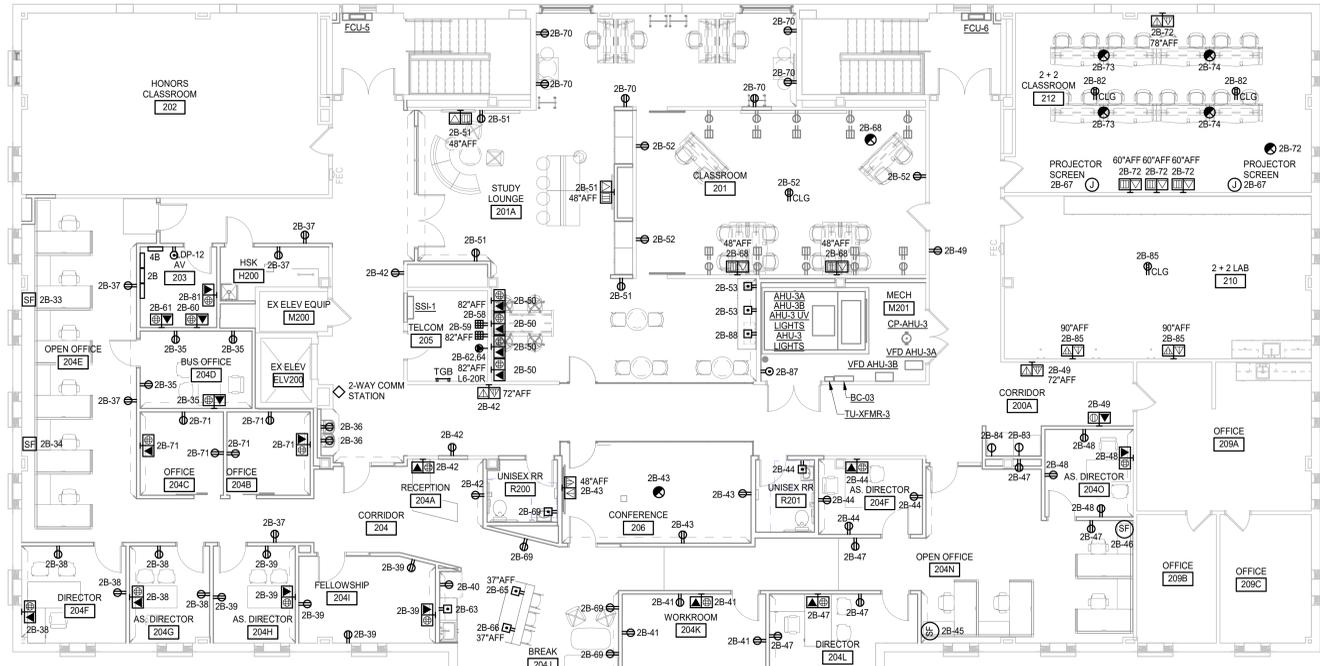
OPTIONS:
1. SELF-DIAGNOSTIC EMERGENCY BATTERY PACKS WHERE INDICATED ON FLOOR PLANS.
2. HYPERBOLIC REFLECTOR.
3. SELF-DIAGNOSTIC.

GENERAL NOTES:
A. MANUFACTURERS AND SERIES SPECIFIED IN FIXTURE SCHEDULE ARE SPECIFIED AS OR EQUAL.

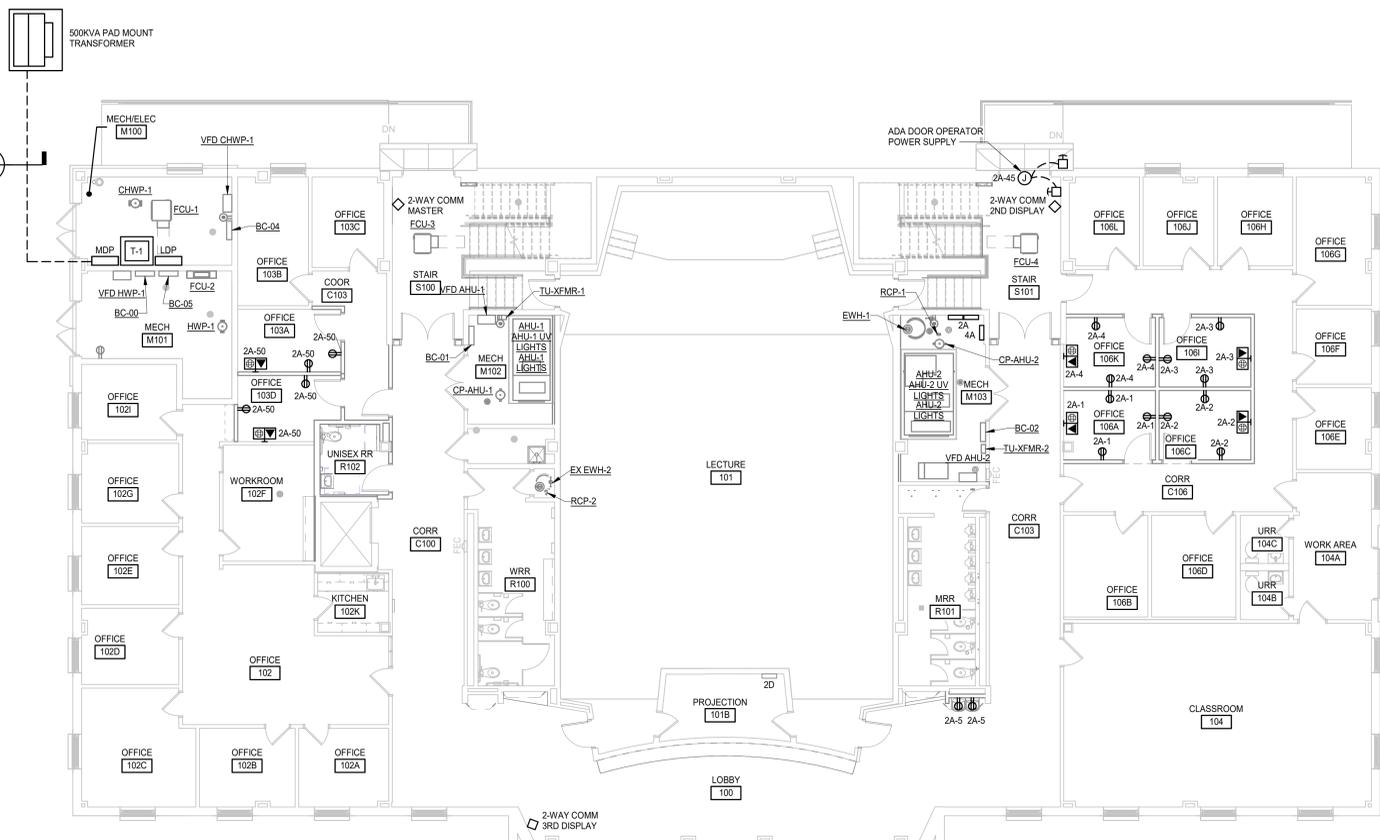


PROJECT N
POLAR
FIRST FLOOR PLAN - LIGHTING
1/8" = 1'-0"

LIGHTING CALCULATION SCHEDULE		
ROOM NUMBER	ROOM NAME	AVERAGE ILLUMINANCE (FC)
100	LOBBY	34 fc
101	OFFICE	51 fc
102A	OFFICE	36 fc
102B	OFFICE	34 fc
102C	OFFICE	37 fc
102D	OFFICE	34 fc
102E	OFFICE	34 fc
102F	WORKROOM	43 fc
102G	OFFICE	34 fc
102I	OFFICE	35 fc
102K	KITCHEN	50 fc
103A	OFFICE	37 fc
103B	OFFICE	46 fc
103C	OFFICE	38 fc
103D	OFFICE	18 fc
104	CLASSROOM	43 fc
104A	WORK AREA	50 fc
104B	URR	31 fc
104C	URR	31 fc
106A	OFFICE	37 fc
106B	OFFICE	50 fc



PROJECT
N
POLAR
SECOND FLOOR PLAN - POWER
1/8" = 1'-0"



PROJECT
N
POLAR
FIRST FLOOR PLAN - POWER
1/8" = 1'-0"

DIV 23 ELECTRICAL CONNECTION SCHEDULE E2.2

TAG	VOLTAGE	# POLES	LOAD	PANEL	CCT#	WIRE	DISCONNECTING MEANS	REMARKS
AHU-1	480 V	3	5.6 KVA	2A	1,3,5	(4) #12, (1) #12 E.G. IN 3/4"	VIA VFD BY DIV 23	ROUTE FEED THROUGH VFD
AHU-1 LIGHTS	120 V	1	0.3 KVA	2A	40	(2) #12, (1) #12 E.G. IN 3/4"	BY DIV 23	
AHU-1 UV LIGHTS	120 V	1	0.4 KVA	2A	42	(2) #12, (1) #12 E.G. IN 3/4"	BY DIV 23	
AHU-2	480 V	3	8.2 KVA	4A	2,4,6	(4) #12, (1) #12 E.G. IN 3/4"	VIA VFD BY DIV 23	ROUTE FEED THROUGH VFD
AHU-2 LIGHTS	120 V	1	0.3 KVA	2A	42	(2) #12, (1) #12 E.G. IN 3/4"	BY DIV 23	
AHU-2 UV LIGHTS	120 V	1	0.4 KVA	2A	41	(2) #12, (1) #12 E.G. IN 3/4"	BY DIV 23	
AHU-3 LIGHTS	120 V	1	0.3 KVA	2B	90	(2) #12, (1) #12 E.G. IN 3/4"	BY DIV 23	
AHU-3 UV LIGHTS	120 V	1	0.4 KVA	2B	89	(2) #12, (1) #12 E.G. IN 3/4"	BY DIV 23	
AHU-3A	480 V	3	9.1 KVA	4B	1,3,5	(4) #12, (1) #12 E.G. IN 3/4"	VIA VFD BY DIV 23	ROUTE FEED THROUGH VFD. PROVIDE UNISTRUT RACK FOR VFD-AHU-3A
AHU-3B	480 V	3	9.1 KVA	4B	7,9,11	(4) #12, (1) #12 E.G. IN 3/4"	VIA VFD BY DIV 23	ROUTE FEED THROUGH VFD
BC-00	120 V	1	0.5 KVA	LDP	10	(2) #12, (1) #12 E.G. IN 3/4"	N/A	
BC-01	120 V	1	0.5 KVA	2A	35	(2) #12, (1) #12 E.G. IN 3/4"	N/A	
BC-02	120 V	1	0.5 KVA	2A	36	(2) #12, (1) #12 E.G. IN 3/4"	N/A	
BC-03	120 V	1	0.5 KVA	2B	77	(2) #12, (1) #12 E.G. IN 3/4"	N/A	
BC-04	120 V	1	0.5 KVA	LDP	8	(2) #12, (1) #12 E.G. IN 3/4"	N/A	
BC-05	120 V	1	0.5 KVA	LDP	8	(2) #12, (1) #12 E.G. IN 3/4"	N/A	
CHWP-1	480 V	3	2.8 KVA	MDP	13,15,17	(4) #12, (1) #12 E.G. IN 3/4"	VIA VFD BY DIV 23	ROUTE FEED THROUGH VFD
CP-AHU-1	208 V	2	1.1 KVA	2A	7,9	(2) #12, (1) #12 E.G. IN 3/4"	MOTOR RATED SWITCH	
CP-AHU-2	208 V	2	1.1 KVA	2A	10,12	(2) #12, (1) #12 E.G. IN 3/4"	MOTOR RATED SWITCH	
CP-AHU-3	208 V	2	1.1 KVA	2B	54,56	(2) #12, (1) #12 E.G. IN 3/4"	MOTOR RATED SWITCH	
EW-1	208 V	2	6.0 KVA	2A	6,8	(2) #8, (1) #10 E.G. IN 3/4"	60ANF NEMA 1	ALT #8 - PROVIDE 30A2P BREAKER IN LIEU OF 40A2P
EX EW-2	208 V	2	2A	2A	47,49	(2) #10, (1) #10 E.G. IN 3/4"	30ANF NEMA 1	
FCU-1	277 V	1	0.4 KVA	MDP	20	(2) #12, (1) #12 E.G. IN 3/4"	BY DIV 23	
FCU-2	277 V	1	0.4 KVA	MDP	21	(2) #12, (1) #12 E.G. IN 3/4"	BY DIV 23	
FCU-3	277 V	1	0.4 KVA	MDP	22	(2) #12, (1) #12 E.G. IN 3/4"	BY DIV 23	
FCU-4	277 V	1	0.4 KVA	4A	9	(2) #12, (1) #12 E.G. IN 3/4"	BY DIV 23	
FCU-5	277 V	1	0.4 KVA	4B	2	(2) #12, (1) #12 E.G. IN 3/4"	BY DIV 23	
FCU-6	277 V	1	0.4 KVA	4B	4	(2) #12, (1) #12 E.G. IN 3/4"	BY DIV 23	
HWP-1	480 V	3	2.8 KVA	MDP	14,16,18	(4) #12, (1) #12 E.G. IN 3/4"	VIA VFD BY DIV 23	ROUTE FEED THROUGH VFD
RCP-1	120 V	1	0.1 KVA	2A	46	(2) #12, (1) #12 E.G. IN 3/4"	MANUAL MOTOR STARTER	
RCP-2	120 V	1	0.1 KVA	2A	48	(2) #12, (1) #12 E.G. IN 3/4"	MANUAL MOTOR STARTER	
SSL-1	208 V	2	0.5 KVA	2B	55,57	(2) #12, (1) #12 E.G. IN 3/4"	MOTOR RATED SWITCH	FED FROM OUTDOOR UNIT SSO-1
TU-XFMR-1	120 V	1	0.5 KVA	2A	43	(2) #12, (1) #12 E.G. IN 3/4"	N/A	
TU-XFMR-2	120 V	1	0.5 KVA	2A	44	(2) #12, (1) #12 E.G. IN 3/4"	N/A	
TU-XFMR-3	120 V	1	0.5 KVA	2B	79	(2) #12, (1) #12 E.G. IN 3/4"	N/A	

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ALDERMAN AND KING HALL RENOVATIONS - KING HALL
University of North Carolina Wilmington
SC0422-24639-01A
601 Hamilton Drive, Wilmington, NC 28403

PROJECT NO:	620589
DATE:	FEBRUARY 10, 2023
REVISIONS	
DATE	DESCRIPTION

POWER PLANS

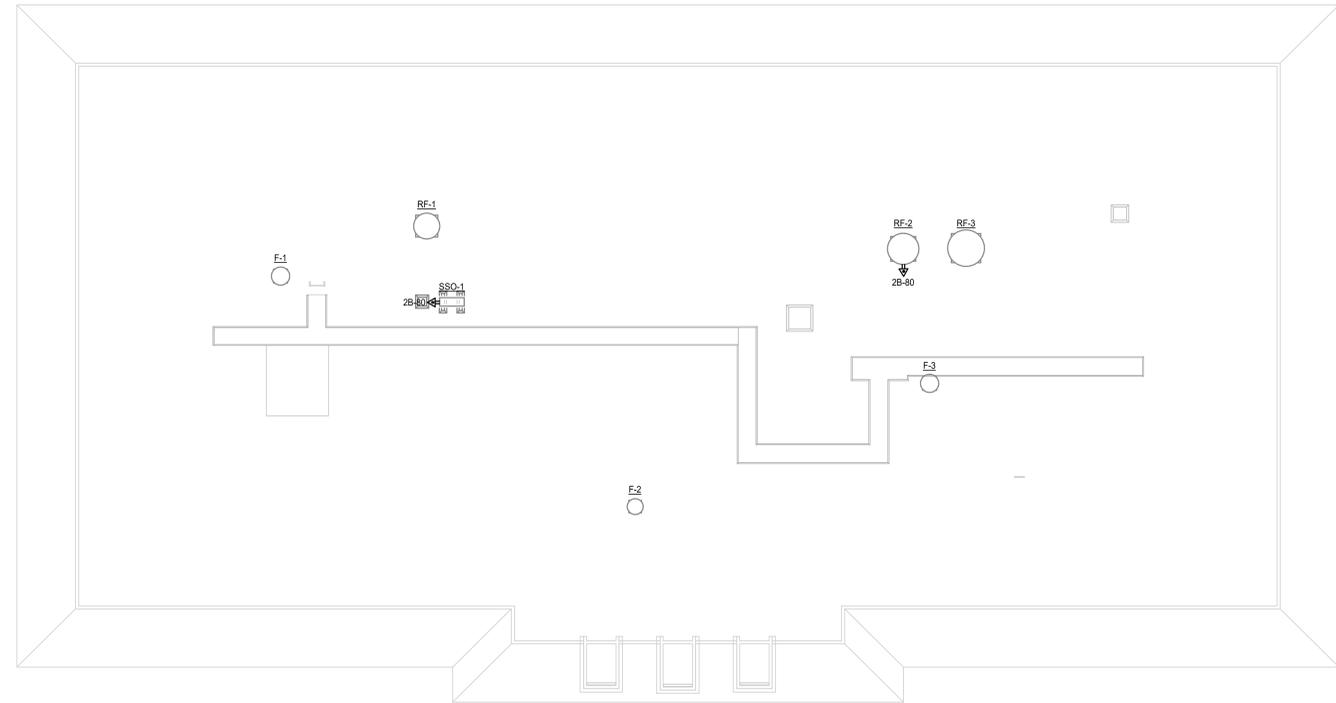
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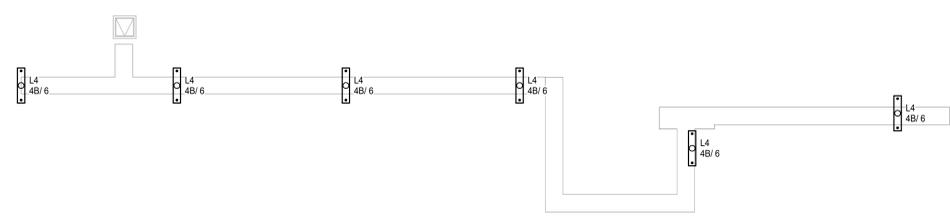
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DIV 23 ELECTRICAL CONNECTION SCHEDULE E2.3								
TAG	VOLTAGE	#	LOAD	PANEL	CCT#	WIRE	DISCONNECTING MEANS	REMARKS
F-1	120 V	1	0.7 KVA	2B	76	(2) #12, (1) #12 E.G IN 3/4"C	MOTOR RATED SWITCH	
F-2	120 V	1	0.3 KVA	2B	75	(2) #12, (1) #12 E.G IN 3/4"C	MOTOR RATED SWITCH	
F-3	120 V	1	0.7 KVA	2B	78	(2) #12, (1) #12 E.G IN 3/4"C	MOTOR RATED SWITCH	
RF-1	120 V	1	1.5 KVA	2A	38	(2) #12, (1) #12 E.G IN 3/4"C	BY DIV 23	
RF-2	208 V	2	2.9 KVA	2A	37,39	(2) #10, (1) #10 E.G IN 3/4"C	BY DIV 23	
RF-3	480 V	3	6.3 KVA	4B	13,15,17	(4) #12, (1) #12 E.G IN 3/4"C	BY DIV 23	
SSO-1	208 V	2	3.2 KVA	2B	55,57	(2) #10, (1) #10 E.G IN 3/4"C	30ANF NEMA 3R	



PROJECT
N
ROOF PLAN - POWER
1/8" = 1'-0"
POLAR



PROJECT
N
ATTIC PLAN - LIGHTING
1/8" = 1'-0"
POLAR

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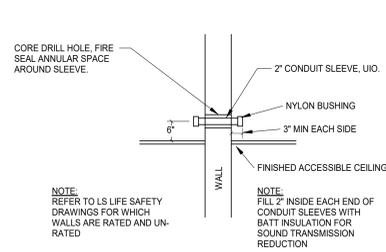
PROJECT NO:	620589
DATE:	FEBRUARY 10, 2023

DATE	REVISIONS	DESCRIPTION

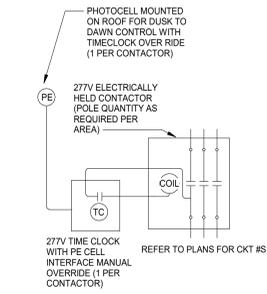
ATTIC & ROOF PLANS

E2.3

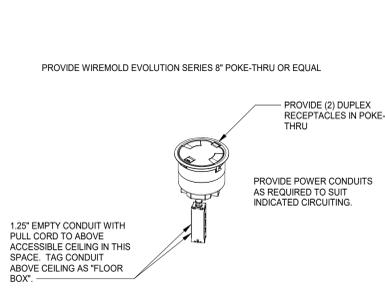
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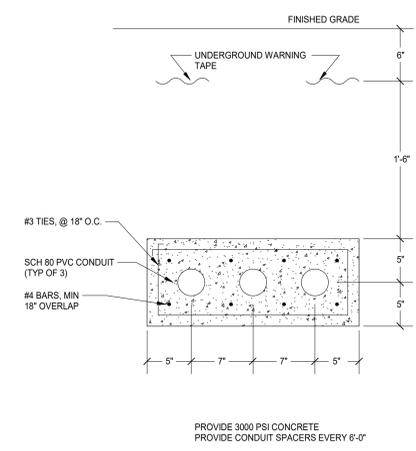
1 UN-RATED WALL CONDUIT SLEEVE DETAIL
NO SCALE



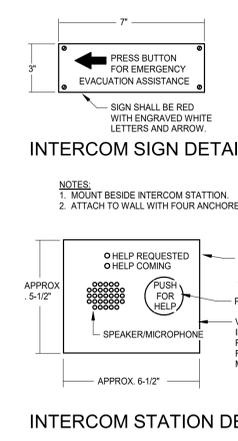
2 EXTERIOR LIGHTING CONTACTOR DETAIL LC-1
NO SCALE



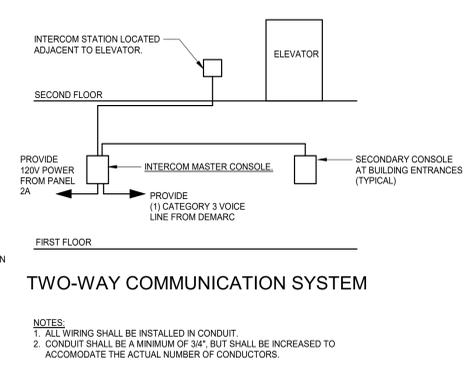
3 POKE-THRU DETAIL - POWER
NO SCALE



4 DUCTBANK SECTION - CONCRETE ENCASED
NO SCALE



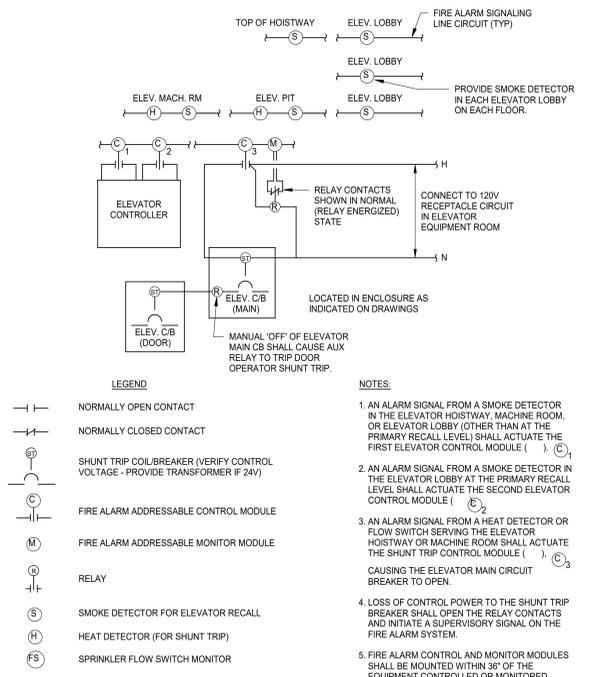
5 INTERCOM STATION DETAIL
NO SCALE



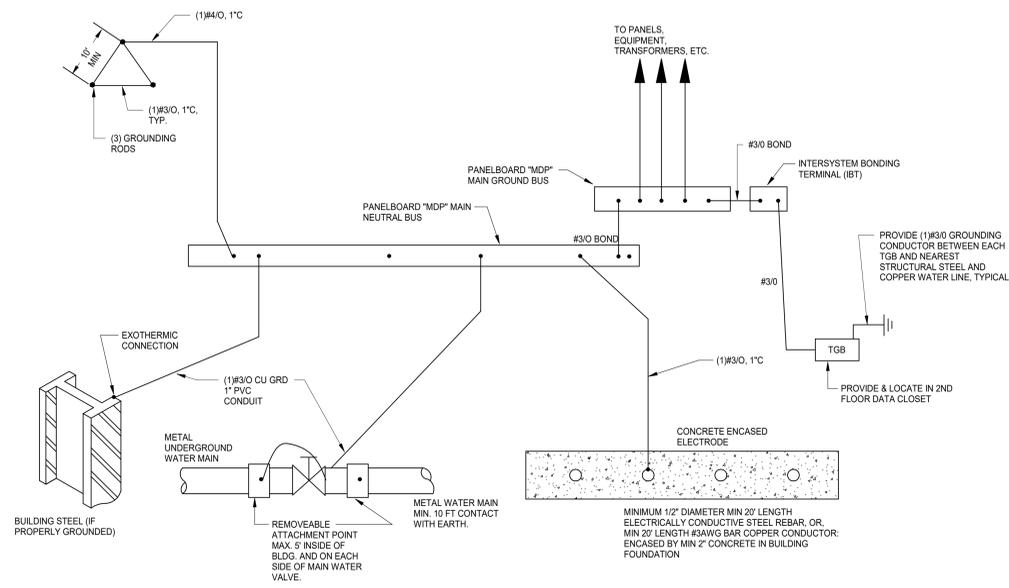
5 ELEVATOR TWO-WAY COMMUNICATION RESCUE ASSISTANCE INTERCOM
NO SCALE



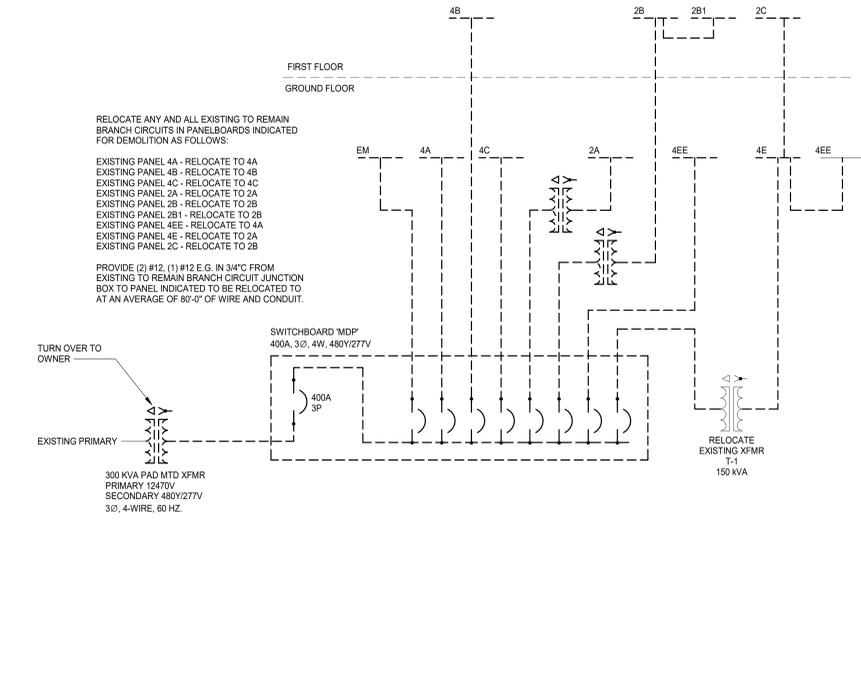
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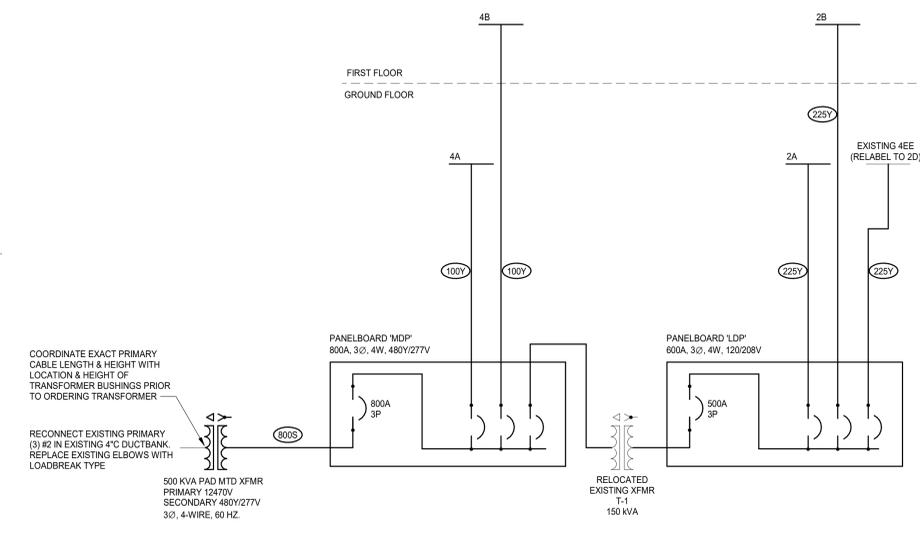
3 ELEVATOR RECALL & SHUNT TRIP DIAGRAM
NO SCALE



4 GROUNDING SYSTEM DIAGRAM
NO SCALE



1 ONE LINE DIAGRAM - DEMOLITION
NO SCALE



2 ONE LINE DIAGRAM - PROPOSED
NO SCALE

COPPER FEEDER SCHEDULE							
FEEDER ID	# OF SETS	BUILDING WIRE QUANTITY & SIZE TYPE THWN - DRY TYPE THWN - WET	MINIMUM CONDUIT SIZE	FEEDER ID	# OF SETS	BUILDING WIRE QUANTITY & SIZE TYPE THWN - DRY TYPE THWN - WET	MINIMUM CONDUIT SIZE
30	1	3#10, #10 G	3/4"	35Y	1	4#10, #10 G	3/4"
35	1	3#8, #10 G	3/4"	35Y	1	4#8, #10 G	3/4"
40	1	3#8, #10 G	3/4"	40Y	1	4#8, #10 G	3/4"
45	1	3#6, #10 G	1"	45Y	1	4#6, #10 G	1"
50	1	3#6, #10 G	1"	50Y	1	4#6, #10 G	1"
60	1	3#4, #10 G	1"	60Y	1	4#4, #10 G	1"
70	1	3#4, #8 G	1 1/4"	70Y	1	4#4, #8 G	1 1/4"
80	1	3#3, #8 G	1 1/4"	80Y	1	4#3, #8 G	1 1/4"
90	1	3#2, #8 G	1 1/4"	90Y	1	4#2, #8 G	1 1/4"
100	1	3#1, #8 G	1 1/4"	100Y	1	4#1, #8 G	1 1/4"
110	1	3#2, #6 G	1 1/2"	110Y	1	4#2, #6 G	1 1/2"
125	1	3#1, #6 G	1 1/2"	125Y	1	4#1, #6 G	1 1/2"
150	1	3#10, #6 G	2"	150Y	1	4#10, #6 G	2"
175	1	3#20, #6 G	2"	175Y	1	4#20, #6 G	2"
200	1	3#30, #6 G	2"	200Y	1	4#30, #6 G	2"
225	1	3#40, #4 G	2 1/2"	225Y	1	4#40, #4 G	2 1/2"
250	1	3-250KCM, #4 G	2 1/2"	250Y	1	4-250KCM, #4 G	2 1/2"
300	1	3-350KCM, #4 G	2 1/2"	300Y	1	4-350KCM, #4 G	2 1/2"
350	2	3#20, #3 G	2"	350Y	2	4#20, #3 G	2"
400	2	3#30, #3 G	2"	400Y	2	4#30, #3 G	2"
450	2	3#40, #2 G	2 1/2"	450Y	2	4#40, #2 G	2 1/2"
500	2	3-250KCM, #2 G	2 1/2"	500Y	2	4-250KCM, #2 G	2 1/2"
600	2	3-350KCM, #1 G	3"	600Y	2	4-350KCM, #1 G	3"
700	2	3-500KCM, #1/0 G	4"	700Y	2	4-500KCM, #1/0 G	4"
800S	3	4-350KCM	3"	800Y	3	4-350KCM, #1/0 G	3"
1000	3	3-500KCM, #2/0 G	4"	1000Y	3	4-500KCM, #2/0 G	4"
1200	4	3-350KCM, #3/0 G	3"	1200Y	4	4-350KCM, #3/0 G	3"
1600	5	3-500KCM, #4/0 G	4"	1600Y	5	4-500KCM, #4/0 G	4"
2000	6	3-500KCM, #250 G	4"	2000Y	6	4-500KCM, #250 G	4"
2500	7	3-500KCM, #350 G	4"	2500Y	7	4-500KCM, #350 G	4"

NOTES:

- ELECTRICAL CONTRACTOR TO VERIFY CONDUIT SIZE REQUIRED IF WIRE TYPES OTHER THAN THOSE LISTED ABOVE ARE USED.
- FEEDER SIZES BASED ON TABLE 310.15(B)(16), 75° C.
- SIZES ADJUSTED PER NEC 110.14.

TRANSFORMER SCHEDULE						
kVA	TYPE	PRIMARY	SECONDARY	COPPER PRIMARY FEEDER	COPPER SECONDARY FEEDER	BONDING CONDUCTOR
15 kVA	LINEAR	480V-3Ø	208Y/120V	3#10, #10 G, 3/4" C.	4#4, #8 G, 1-1/4" C.	#8
30 kVA	LINEAR	480V-3Ø	208Y/120V	3#8, #10 G, 1" C.	4#1, #6 G, 1-1/2" C.	#6
45 kVA	LINEAR	480V-3Ø	208Y/120V	3#4, #8 G, 1-1/4" C.	4#10, #6 G, 2" C.	#6
75 kVA	LINEAR	480V-3Ø	208Y/120V	3#1, #6 G, 1-1/2" C.	4-250KCM, #2 G, 2-1/2" C.	#2
112.5 kVA	LINEAR	480V-3Ø	208Y/120V	3#20, #6 G, 2" C.	(2 SETS) 4-3Ø, #2 G, 2-1/2" C.	#2
150 kVA	LINEAR	480V-3Ø	208Y/120V	3#40, #4 G, 2-1/2" C.	(2 SETS) 4-250KCM, #2/0 G, 3" C.	#2/0
225 kVA	LINEAR	480V-3Ø	208Y/120V	(2 SETS) 3#20, #3 G, 2" C.	(3 SETS) 4-350KCM, #2/0 G, 3" C.	#2/0
300 kVA	LINEAR	480V-3Ø	208Y/120V	(2 SETS) 3#40, #2 G, 2-1/2" C.	(4 SETS) 4-350KCM, #4/0 G, 4" C.	#3/0
500 kVA	LINEAR	480V-3Ø	208Y/120V	(3 SETS) 3-350KCM, #1/0 G, 4" C.	(6 SETS) 4-350KCM, 300KCM G, 4" C.	#3/0

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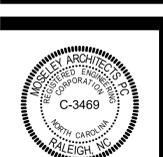
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601 Hamilton Drive, Wilmington, NC 28403

PROJECT NO:	620589
DATE:	FEBRUARY 10, 2023
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DIAGRAMS

E5.1

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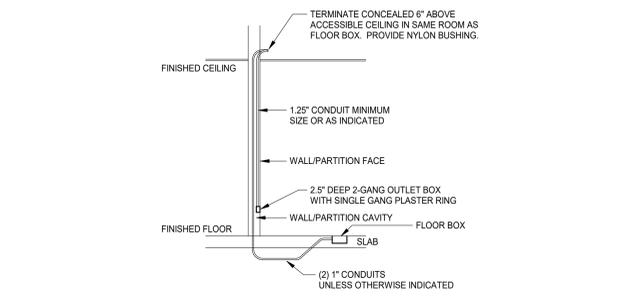
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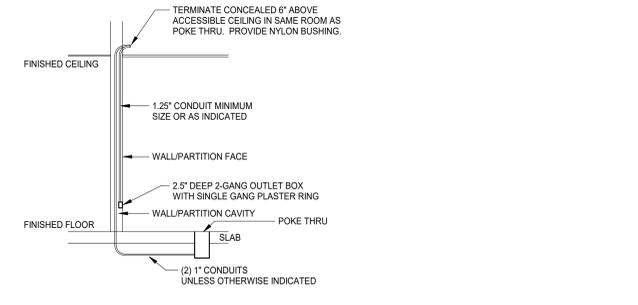
PROJECT NO:	620589
DATE:	September 2, 2022
REVISIONS	
DATE	DESCRIPTION

DETAILS

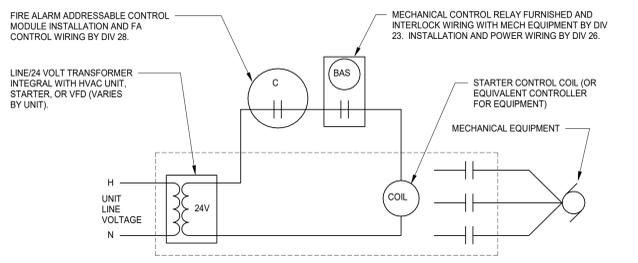
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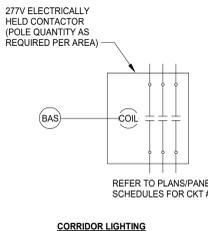
5 TELECOMMUNICATIONS OUTLET CONDUIT DETAIL - FLOOR BOX & WALL
NO SCALE



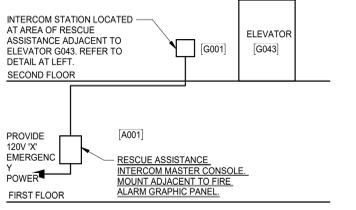
6 TELECOMMUNICATIONS OUTLET CONDUIT DETAIL - POKE THRU & WALL
NO SCALE



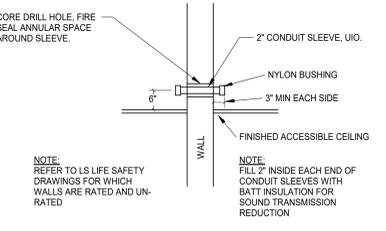
9 FIRE ALARM HVAC UNIT SHUTDOWN WIRING DIAGRAM
NO SCALE



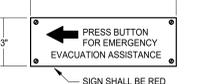
4 EXTERIOR & INTERIOR LIGHTING CONTACTOR DETAIL
NO SCALE



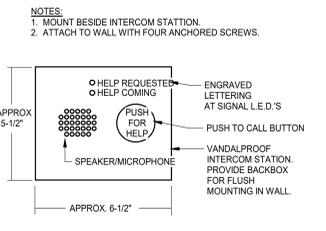
RESCUE ASSISTANCE INTERCOM SYSTEM
 NOTES:
 1. ALL WIRING SHALL BE INSTALLED IN CONDUIT.
 2. CONDUIT SHALL BE A MINIMUM OF 3/4", BUT SHALL BE INCREASED TO ACCOMMODATE THE ACTUAL NUMBER OF CONDUCTORS.
 3. COORDINATE EXACT LOCATION OF AREAS OF RESCUE ASSISTANCE WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.



3 UN-RATED WALL CONDUIT SLEEVE DETAIL
NO SCALE

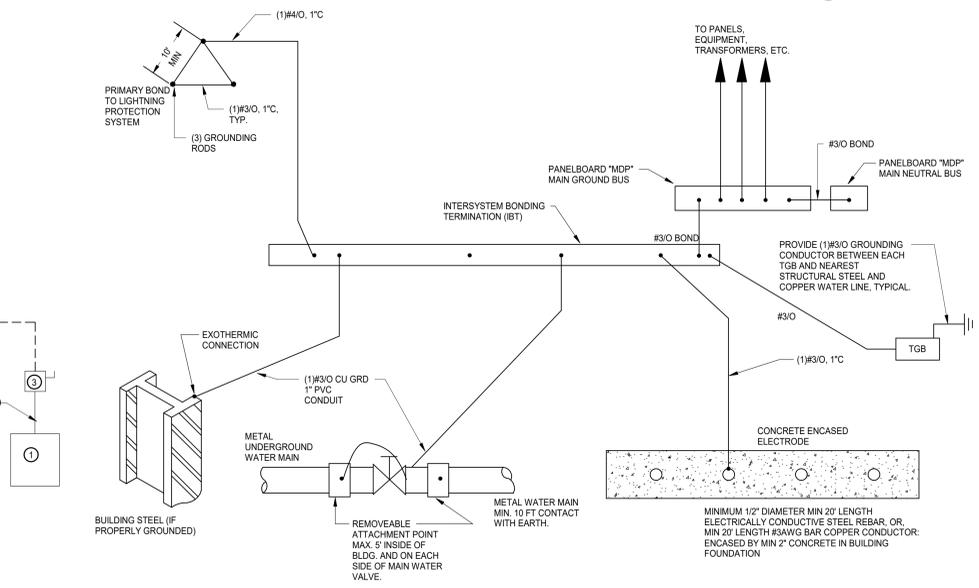


INTERCOM SIGN DETAIL

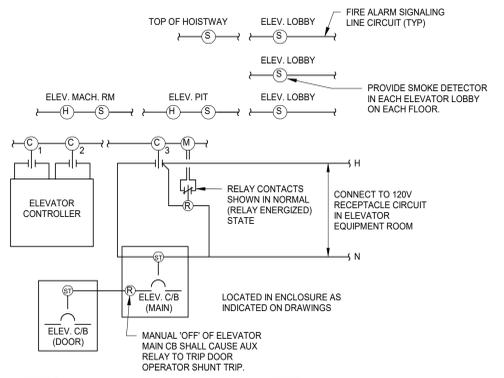


INTERCOM STATION DETAIL

2 ELEVATOR RESCUE ASSISTANCE INTERCOM
NO SCALE



8 GROUNDING SYSTEM DIAGRAM
NO SCALE



1 ELEVATOR RECALL & SHUNT TRIP DIAGRAM
NO SCALE

- MECHANICAL EQUIPMENT
- CONDUIT AND WIRING BY MECHANICAL CONTRACTOR.
- IF AN ADDITIONAL DISCONNECT IS REQUIRED BY NEC, IT SHALL BE PROVIDED AND INSTALLED BY THE EQUIPMENT CONTRACTOR.
- A COMBINATION STARTER OR VFD MAY BE USED IN LIEU OF A SEPARATE DISCONNECT SWITCH AND STARTER. LOCATE ADJACENT TO EQUIPMENT.
- FEEDER CIRCUIT WIRING AND CONDUIT IN ELECTRICAL WORK. SEE ELECTRICAL DRAWINGS.
- JUNCTION BOX MAY BE SHOWN ON ELECTRICAL PLANS FOR SOME EQUIPMENT. IF NO STARTER OR DISCONNECT IS SUPPLIED, A JUNCTION BOX SHALL BE INSTALLED ADJACENT TO EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE LINE SIDE WIRING TO THE JUNCTION BOX. LOAD SIDE WIRING WILL BE PROVIDED BY MECHANICAL CONTRACTOR.
- PROJECTS UTILIZING AN MCC, THE STARTER, JB, OR VFD IN THE MCC ARE PROVIDED BY THE ELECTRICAL DRAWINGS.
- IN ALL CASES, THE EQUIPMENT CONTRACTOR SHALL MAKE FINAL CONNECTIONS, START UP, AND TEST EQUIPMENT.
- IF THE ROOFTOP FAN IS NOT PROVIDED WITH A BUILT-IN SWITCH, THE ELECTRICAL CONTRACTOR SHALL PROVIDE A DISCONNECT SWITCH.
- IN A SINGLE PRIME CONTRACT, IT IS THE RESPONSIBILITY OF THE PRIME CONTRACTOR TO COORDINATE BETWEEN THE ELECTRICAL AND OTHER TRADES.

7 DIVISION 23 AND 26 COORDINATION DETAIL
NO SCALE

- LEGEND**
- NORMALLY OPEN CONTACT
 - NORMALLY CLOSED CONTACT
 - SHUNT TRIP COIL/BREAKER (VERIFY CONTROL VOLTAGE - PROVIDE TRANSFORMER IF 24V)
 - FIRE ALARM ADDRESSABLE CONTROL MODULE
 - FIRE ALARM ADDRESSABLE MONITOR MODULE
 - RELAY
 - SMOKE DETECTOR FOR ELEVATOR RECALL
 - HEAT DETECTOR (FOR SHUNT TRIP)
 - SPRINKLER FLOW SWITCH MONITOR
- NOTES:**
- AN ALARM SIGNAL FROM A SMOKE DETECTOR IN THE ELEVATOR HOISTWAY, MACHINE ROOM, OR ELEVATOR LOBBY (OTHER THAN AT THE PRIMARY RECALL LEVEL) SHALL ACTUATE THE FIRST ELEVATOR CONTROL MODULE (C1).
 - AN ALARM SIGNAL FROM A SMOKE DETECTOR IN THE ELEVATOR LOBBY AT THE PRIMARY RECALL LEVEL SHALL ACTUATE THE SECOND ELEVATOR CONTROL MODULE (C2).
 - AN ALARM SIGNAL FROM A HEAT DETECTOR OR FLOW SWITCH SERVING THE ELEVATOR HOISTWAY OR MACHINE ROOM SHALL ACTUATE THE SHUNT TRIP CONTROL MODULE (C3).
 - LOSS OF CONTROL POWER TO THE SHUNT TRIP BREAKER SHALL OPEN THE RELAY CONTACTS AND INITIATE A SUPERVISORY SIGNAL ON THE FIRE ALARM SYSTEM.
 - FIRE ALARM CONTROL AND MONITOR MODULES SHALL BE MOUNTED WITHIN 36" OF THE EQUIPMENT CONTROLLED OR MONITORED.
 - A HEAT DETECTOR FOR ELEVATOR SHUNT TRIP SHALL BE PROVIDED WITHIN 24" OF EACH SPRINKLER IN THE ELEVATOR HOISTWAY AND MACHINE ROOM.
- CONNECT TO 120V RECEPTACLE CIRCUIT IN ELEVATOR EQUIPMENT ROOM**
- LOCATED IN ENCLOSURE AS INDICATED ON DRAWINGS**
- MANUAL 'OFF' OF ELEVATOR MAIN CB SHALL CAUSE AUX RELAY TO TRIP DOOR OPERATOR SHUNT TRIP.**



EXISTING PANELBOARD 2D LOCATION: PROJECTION 1018 FED FROM: LDP
225 AMP MCB 120/208 Wye 3 PH 4 W MOUNT: SURFACE PANEL ASSEMBLY RATED (KAIC): 10 KAIC

CKT	BRKR	POLE	LOAD	A	B	C	LOAD	POLE	BRKR	CKT
1	20 A	1	PROJECTOR RECPT	0.5	0.8		SOUNDS RACK RECPT	1	20 A	2
3	--	1	SPACE ONLY				SOUND RACK RECPT	1	20 A	4
5							RECESSED CAN LTS	1	20 A	6
7	15 A	3	SURGE SUPPRESSOR	0.0	0.6		RECESSED CAN LTS	1	20 A	8
9							RECESSED CAN LTS ROOM 104	1	20 A	10
11							SPARE	2	60 A	12
13	30 A	2	30A OUTLET	1.2	0.0		SPARE	1	--	14
15							SPACE ONLY	1	--	16
17	30 A	2	SPARE				SPACE ONLY	1	--	18

ALL LOADS ARE EXISTING TO REMAIN

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
INTERIOR LIGHTING	0 VA	0.00%	0 VA	Total Conn. Load: 5.6 kVA Total Est. Demand: 5.6 kVA Total Conn. Current: 16 A Total Est. Demand: 16 A
EXTERIOR LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLES	0 VA	0.00%	0 VA	
AC / HEAT PUMP	0 VA	0.00%	0 VA	
ELECTRIC HEAT	0 VA	0.00%	0 VA	
KITCHEN	0 VA	0.00%	0 VA	
MISCELLANEOUS	0 VA	0.00%	0 VA	

PANELBOARD SCHEDULE LDP LOCATION: MECHELEC M100 FED FROM: T-1
500 AMP MCB 120/208 Wye 3 PH 4 W MOUNT: SURFACE PANEL ASSEMBLY RATED (KAIC): 22 KAIC

CKT	BRKR	POLE	LOAD	A	B	C	LOAD	POLE	BRKR	CKT
1										
3	225 A	3	2A	17.6	24.5		2B	3	225 A	2
5										
7				3.1	1.0		BAS BC-04 & 05	1	20 A	8
9	225 A	3	2D		0.7	0.5	BAS BC-00	1	20 A	10
11							REC AV 203	1	20 A	12
13	20 A	1	SPARE	0.0	0.0		SPARE	1	20 A	14
15	20 A	1	SPARE				SPARE	1	20 A	16
17	20 A	1	SPARE				SPARE	1	20 A	18
19	20 A	1	SPARE	0.0	0.0		SPARE	1	20 A	20
21	20 A	1	SPARE				SPARE	1	20 A	22
23	--	1	SPACE ONLY				SPACE ONLY	1	--	24
25	--	1	SPACE ONLY				SPACE ONLY	1	--	26
27	--	1	SPACE ONLY				SPACE ONLY	1	--	28
29	--	1	SPACE ONLY				SPACE ONLY	1	--	30
31	--	1	SPACE ONLY				SPACE ONLY	1	--	32
33	--	1	SPACE ONLY				SPACE ONLY	1	--	34
35	--	1	SPACE ONLY				SPACE ONLY	1	--	36
37	--	1	SPACE ONLY				SPACE ONLY	1	--	38
39	--	1	SPACE ONLY				SPACE ONLY	1	--	40
41	--	1	SPACE ONLY				SPACE ONLY	1	--	42

(GE) = PROVIDE GFCI BREAKER FOR EQUIPMENT, 6-50mA PER NEC 427.22. DED. NEUTRAL.
(GP) = PROVIDE GFCI BREAKER FOR PERSONNEL, 4-6mA PER NEC 210.8. DED. NEUTRAL.
(L) = PROVIDE LOCKOUT BREAKER TO PREVENT UNAUTHORIZED SWITCHING.
(LC) = ROUTE TO LOAD VIA LIGHTING CONTACTOR, REF DETAIL ON DWG E4.X.
(ML) = PROVIDE BREAKER WITH MAINTENANCE LOCKOUT, LOCKABLE OFF.

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
INTERIOR LIGHTING	0 VA	0.00%	0 VA	Total Conn. Load: 115.2 kVA Total Est. Demand: 100.6 kVA Total Conn. Current: 320 A Total Est. Demand: 279 A
EXTERIOR LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLES	39372 VA	62.70%	24686 VA	
AC / HEAT PUMP	3371 VA	100.00%	3371 VA	
ELECTRIC HEAT	0 VA	0.00%	0 VA	
KITCHEN	0 VA	0.00%	0 VA	
MISCELLANEOUS	11170 VA	100.00%	11170 VA	

PANELBOARD SCHEDULE 2A LOCATION: MECH M103 FED FROM: LDP
225 AMP MCB 120/208 Wye 3 PH 4 W MOUNT: SURFACE PANEL ASSEMBLY RATED (KAIC): 10 KAIC

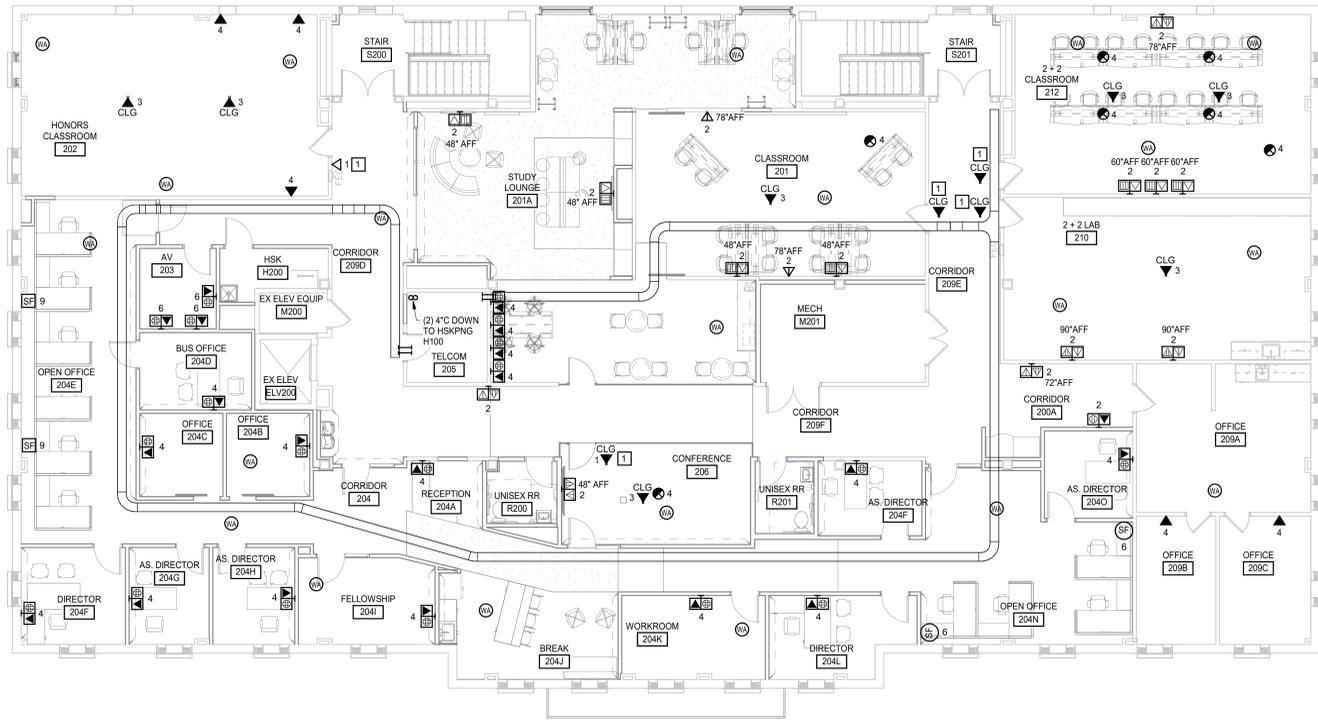
CKT	BRKR	POLE	LOAD	A	B	C	LOAD	POLE	BRKR	CKT	
1	20 A	1	REC OFFICE 106K	0.9	0.9		REC OFFICE 106A	1	20 A	2	
3	20 A	1	REC OFFICE 106L		0.9	0.9	REC OFFICE 106M	1	20 A	4	
5	20 A	1	EWG (GP)			0.4	3.0			6	
7	15 A	2	CP-AHU-1	0.6	3.0		CP-AHU-2	2	40 A	8	
9	20 A	1	EXIST RECEPTACLE (E)		0.6	0.6				10	
11	20 A	1	EXIST RECEPTACLE (E)		0.6	0.6				12	
13	20 A	1	EXIST RECEPTACLE (E)	0.8	0.2		EXIST CLOCK CABINET (E)	1	20 A	14	
15	20 A	1	EXIST RECEPTACLE (E)		0.8	0.6				16	
17	20 A	1	EXIST RECEPTACLE (E)			1.0	0.3	EXIST LTS, EXT. FLOOD (E)	1	20 A	18
19	20 A	1	EXIST RECEPTACLE (E)	1.2	0.8		EXIST RECEPTACLE (E)	1	20 A	20	
21	20 A	1	EXIST RECEPTACLE (E)		0.8	0.1	EXIST ELEVATOR PIT LIGHT (E)	1	20 A	22	
23	20 A	1	EXIST RECEPTACLE (E)			1.0	1.5	EXIST EWH WOMENS BATH (E)	1	30 A	24
25	20 A	1	EXIST RECEPTACLE (E)	1.2	0.2		EXIST LTG OBSERVATION (E)	1	20 A	26	
27	20 A	1	EXIST RECEPTACLE (E)			1.0	0.8	EXIST RECEPTACLE (E)	1	20 A	28
29	20 A	1	EXIST REC SUMP PUMP (E)			0.1	1.0	EXIST RECEPTACLE (E)	1	20 A	30
31	20 A	1	EXIST RECEPTACLE (E)	0.8	0.1		EXIST LTG. RAMP & ENTRY (E)	1	20 A	32	
33	20 A	1	EXIST RECEPTACLE (E)		1.2	0.0	FACP (L)	1	20 A	34	
35	20 A	1	BAS BC-01			0.5	0.5	BAS BC-02	1	20 A	36
37	30 A	2	RF-2	1.5	1.5		RF-1	1	20 A	38	
39	20 A	1	SPARE		1.5	0.3	AHU-1 UV LIGHT	1	20 A	40	
41	20 A	1	AHU-2 UV LIGHT			0.4	0.7	AHU-1 & 2 LIGHTS	1	20 A	42
43	20 A	1	TERMINAL UNITS AHU-1	0.5	0.5		TERMINAL UNITS AHU-2	1	20 A	44	
45	20 A	1	ADA POWER SUPPLY			0.5	0.1	RCP-1	1	15 A	46
47	30 A	2	EX-EWH-2	1.7	1.4		RCP-2	1	15 A	48	
49	20 A	1	SPARE			0.0	0.0	REC OFFICE 103A, 103D	1	20 A	50
51	20 A	1	SPARE			0.0	0.0	SPARE	1	20 A	52
53	20 A	1	SPARE			0.0	0.0	SPARE	1	20 A	54
55	20 A	1	SPARE	0.0	0.0		SPARE	1	20 A	56	
57	20 A	1	SPARE			0.0	0.0	SPARE	1	20 A	58
59	20 A	1	SPARE			0.0	0.0	SPARE	1	20 A	60
61	20 A	1	SPARE	0.0	0.0		SPARE	1	20 A	62	
63	20 A	1	SPARE			0.0	0.0	SPARE	1	20 A	64
65	20 A	1	SPARE			0.0	0.0	SPARE	1	20 A	66
67	20 A	1	SPARE	0.0	0.0		SPARE	1	20 A	68	
69	20 A	1	SPARE			0.0	0.0	SPARE	1	20 A	70
71	20 A	1	SPARE			0.0	0.0	SPARE	1	20 A	72
73	20 A	1	SPARE	0.0	0.0		SPARE	1	20 A	74	
75	20 A	1	SPARE			0.0	0.0	SPARE	1	20 A	76
77	20 A	1	SPARE			0.0	0.0	SPARE	1	20 A	78
79	20 A	1	SPARE	0.0	0.0		SPARE	1	20 A	80	
81	20 A	1	SPARE			0.0	0.0	SPARE	1	20 A	82
83	20 A	1	SPARE			0.0	0.0	SPARE	1	20 A	84

(E) = EXISTING CIRCUIT RELOCATED FROM PANEL 2A. PROVIDE (2) #12, #12 E.G EXTENSION TO EXISTING CIRCUIT JUNCTION BOX
(GE) = PROVIDE GFCI BREAKER FOR EQUIPMENT, 6-50mA PER NEC 427.22. DED. NEUTRAL.
(GP) = PROVIDE GFCI BREAKER FOR PERSONNEL, 4-6mA PER NEC 210.8. DED. NEUTRAL.
(L) = PROVIDE LOCKOUT BREAKER TO PREVENT UNAUTHORIZED SWITCHING. PROVIDE RED CIRCUIT BREAKER IN ACCORDANCE WITH NEC 706.41
(LC) = ROUTE TO LOAD VIA LIGHTING CONTACTOR, REF DETAIL ON DWG E4.X...

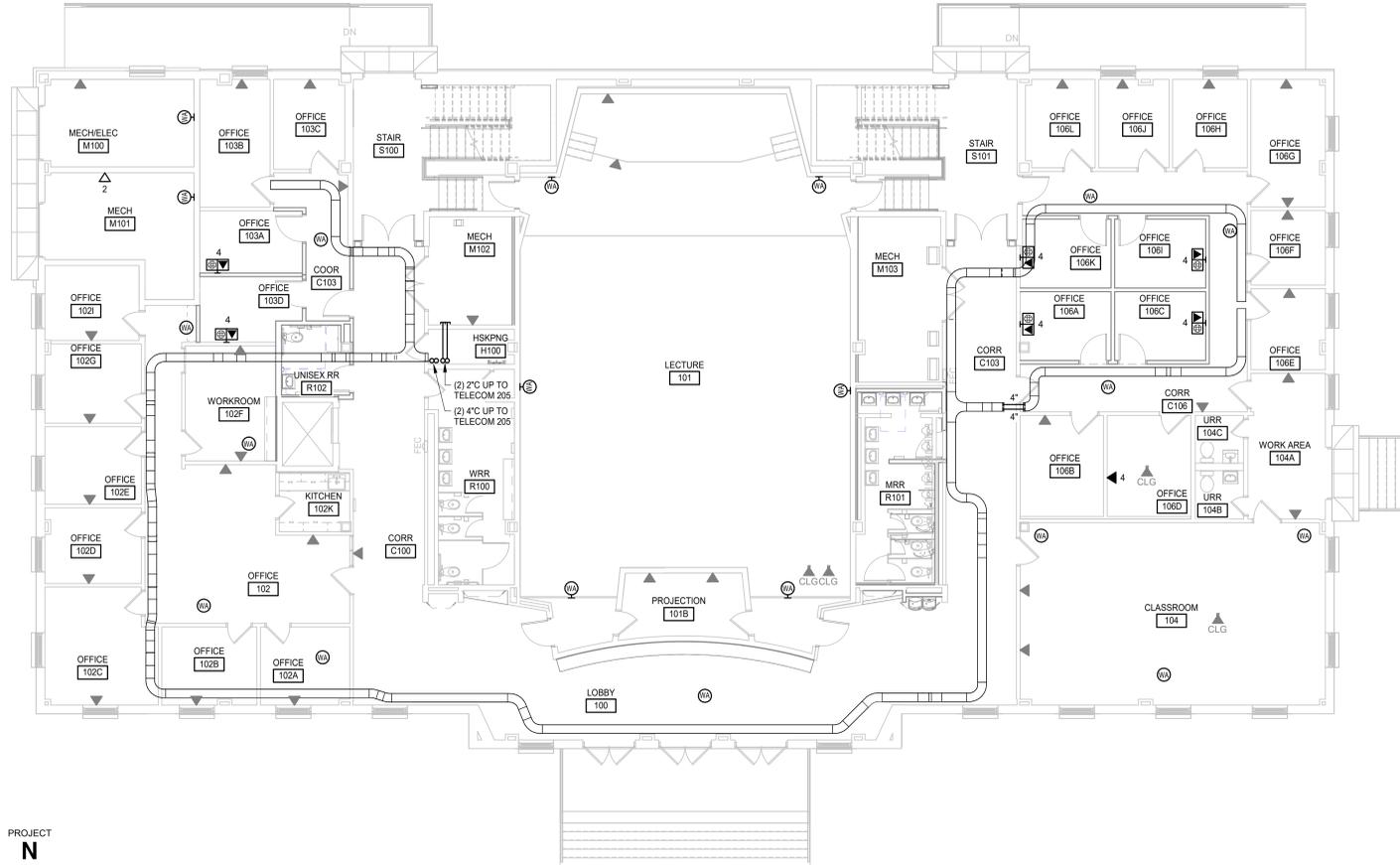
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
INTERIOR LIGHTING	0 VA	0.00%	0 VA	Total Conn. Load: 41.4 kVA Total Est. Demand: 41.4 kVA Total Conn. Current: 115 A Total Est. Demand: 115 A
EXTERIOR LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLES	5400 VA	100.00%	5400 VA	
AC / HEAT PUMP	0 VA	0.00%	0 VA	
ELECTRIC HEAT	0 VA	0.00%	0 VA	
KITCHEN	0 VA	0.00%	0 VA	
MISCELLANEOUS	7270 VA	100.00%	7270 VA	

PANELBOARD SCHEDULE 2B LOCATION: AV 203 FED FROM: LDP
225 AMP MCB 120/208 Wye 3 PH 4 W MOUNT: SURFACE PANEL ASSEMBLY RATED (KAIC): 10 KAIC

CKT	BRKR	POLE	LOAD	A	B	C	LOAD	POLE	BRKR	CKT	
1	20 A	1	EXIST RCPT RM 202 TABLES (E)	0.8	0.8		EXIST RCPT RM 202 TABLES (E)	1	20 A	2	
3	20 A	1	EXIST RCPT RM 202 TABLES (E)		0.8	0.8	EXIST RCPT RM 202 TABLES (E)	1	20 A	4	
5	20 A	1	EXIST RCPT RM 202 TABLES (E)			0.8	0.8	EXIST RCPT RM 202 TABLES (E)	1	20 A	6
7	20 A	1	EXIST PROJECTOR 202 (E)	0.5	0.5		EXIST PROJECTOR 202 (E)	1	20 A	8	
9	20 A	1	EXIST RCPT RM 202 (E)		0.6	0.1	EXIST CAMERA'S 202 (E)	1	20 A	10	
11	20 A	1	EXIST RCPT RM 202 (E)			0.6	1.0	EXIST PHONE SERVER (E)	1	20 A	12
13	20 A	1	EXIST RCPT RM 202 (E)	0.6	0.6		EXIST RCPT RM 210 (E)	1	20 A	14	
15	20 A	1	EXIST RCPT RM 210 (E)			1.0	0.8	EXIST RCPT RM 210 (E)	1	20 A	16
17	20 A	1	EXIST RCPT RM 210 (E)			1.0	1.0	EXIST RCPT RM 210 (E)	1	20 A	18
19	20 A	1	EXIST RCPT RM 210 (E)	0.8	0.8		EXIST RCPT RM 205 (E)	1	20 A	20	
21	20 A	1	EXIST RCPT RM 209 (E)			0.8	0.8	EXIST RCPT RM 209 (E)	1	20 A	22
23	20 A	1	EXIST RCPT RM 209 (E)			0.8	0.8	EXIST RCPT RM 207 (E)	1	20 A	24
25	20 A	1	EXIST RCPT RM 209 (E)	0.8	1.0		EXIST RCPT RM 207 (E)	1	20 A	26	
27	20 A	1	EXIST ELEVATOR LIGHTS (E)		0.3	0.8	EXIST RCPT RM 209 (E)	1	20 A	28	
29	20 A	1	EXIST RCPT RM 211 (E)			0.6	0.6	EXIST RCPT RM 211 (E)	1	20 A	30
31	20 A	1	EXIST RCPT RM 209 (E)	0.8	0.6		EXIST RCPT RM 209 (E)	1	20 A	32	
33	20 A	1	SYSTEM FURNITURE			0.5	0.5	SYSTEM FURNITURE	1	20 A	34
35	20 A	1	REC ROOM 203B, 203C			0.9	0.4	EWG (GP)	1	20 A	36
37	20 A	1	REC OPEN OFFICE HSK H200	0.9	1.4		REC ROOM 203D, 203E	1	20 A	38	
39	20 A	1	REC ROOM 203F, 204B			1.6	0.2	BREAK ROOM FRIDGE (GP)	1	20 A	40
41	20 A	1	REC ROOM 204D			0.9	1.1	REC 204A & CORRIDOR	1	20 A	42
43	20 A	1	REC CONFERENCE 205	0.9	1.1		REC ROOM 204F	1	20 A	44	
45	20 A	1	REC OPEN OFFICE 206			1.1	1.1	REC 206	1	20 A	46
47	20 A	1	REC ROOM 204E, 206			1.3	0.9	REC ROOM 206A	1	20 A	48
49	20 A	1	REC CORRIDOR	0.5	1.4		REC 201-1	1	20 A	50	
51	20 A	1	REC ROOM 201-1, 201-2, 211			0.9	0.7	REC 211, 201-2	1	20 A	52
53	20 A	1	REC 201-1			0.4	0.6	CP-AHU-3	2	15 A	54
55	25 A	2	SSH-1 & SSO-1	1.7	0.6		REC TELCOM 201A	1	20 A	56	
57	20 A	1	REC TELCOM 201A			1.7	0.4	REC AV 203A	1	20 A	58
59	20 A	1	REC AV 203A	0.4	2.5		REC 201A	2	20 A	62	
63	20 A	1	REC BREAK 204C			0.2	2.5	REC BREAK 204C	1	20 A	64
65	20 A	1	REC BREAK 204C			0.2	0.2	REC 211	1	20 A	66
67	20 A	1	RM 212 PROJECTOR SCREENS	1.0	0.7		REC 201-2	1	20 A	68	
69	20 A	1	REC 204, 204C, R200			0.7	1.1	REC 212	1	20 A	70
71	20 A	1	REC 203G, 203C			1.4	1.1	REC 212	1	20 A	72
73	20 A	1	REC 212	0.7	0.7		REC 212	1	20 A	74	
75	15 A	1	F-2			0.3	0.7	F-1	1	15 A	76
77	20 A	1	BAS BC-03			0.5	0.7	F-3	1	15 A	78
79	20 A	1	TERMINAL UNITS AHU-3	0.5	0.4		RECROOF	1	20 A	80	
81	20 A	1	REC AV 203			0.4	0.4	REC 212 PROJECTORS	1	20 A	82
83	20 A	1	REC 200A VENDING (GP)			0.2	0.2	REC 209F VENDING (GP)	1	20 A	84
85	20 A	1	REC ROOM 210	0.5				REC 209F VENDING (GP)	1	20 A	86
87	20 A	1	REC MECH M201			0.2	0.2	REC 201-1	1	20 A	88
89	20 A	1	AHU-3 LIGHTS			0.4	0.3	AHU-3 UV LIGHT	1	20 A	90
91	20 A	1									



PROJECT
N
POLAR
SECOND FLOOR PLAN - COMMUNICATIONS
1/8" = 1'-0"



PROJECT
N
POLAR
FIRST FLOOR PLAN - COMMUNICATIONS
1/8" = 1'-0"

GENERAL NOTES

- A. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.
- B. FOLLOW MOUNTING HEIGHTS INDICATED IN THE ELECTRICAL LEGEND UNLESS OTHERWISE INDICATED. MEASURE ALL MOUNTING HEIGHTS FROM THE DEVICE CENTER LINE UNLESS OTHERWISE INDICATED.
- C. EQUIPMENT CONNECTIONS ARE INDICATED IN THEIR APPROXIMATE LOCATIONS. VERIFY EXACT LOCATIONS OF ALL CONNECTIONS WITH OTHER TRADES SUPPLYING EQUIPMENT TO AVOID CONFLICTS AT INSTALLATION.
- D. ALL CONDUIT AND CABLE TRAY RUNS INDICATED ARE DIAGRAMMATIC. COORDINATE ROUTING IN ALL SPACES WITH OTHER TRADES.
- E. WHERE POWER AND COMMUNICATION OUTLETS ARE INDICATED IN CLOSE PROXIMITY ON THE DRAWINGS, FIELD COORDINATE THE LOCATIONS TO PLACE THE OUTLETS ADJACENT TO EACH OTHER.
- F. ALL ELECTRICAL INSPECTIONS WITH THE STATE CONSTRUCTION OFFICE INSPECTOR SHALL BE MONDAY THRU FRIDAY UNLESS SPECIFICALLY EXEMPTED AND APPROVED BY THE STATE CONSTRUCTION OFFICE.
- G. ALL VOICE, DATA AND CATV CABLE DEMOLITION AND INSTALLATION SHALL BE PERFORMED BY A CERTIFIED COMMSCOPE SYSTEMAX CONTRACTOR.
- H. PROVIDE RIGHT ANGLE BRACKET FOR ALL WALL MOUNTED WIRELESS ACCESS POINTS.
- I. PROVIDE REPLACEMENT FACEPLATES FOR ALL EXISTING DATA OUTLETS & RELABEL WITH NEW TERMINATION ID.

COMMUNICATIONS LEGEND

- NOTE: REFER TO TELECOMMUNICATIONS DETAILS ON T4.1. PROVIDE QUANTITY OF CATEGORY 6 OR CATEGORY 6A CABLES PER OUTLET LOCATION INDICATED ON FLOOR PLANS.
- SYMBOL DESCRIPTION**
- ▽ TELECOMMUNICATIONS OUTLET. MOUNT AT +3'-10" AFF.
 - ▼ TELECOMMUNICATIONS OUTLET. MOUNT AT +1'-6" AFF.
 - ▽ CLG TELECOMMUNICATIONS OUTLET ABOVE ACCESSIBLE CEILING. PROVIDE 15FT COILED LOOP ABOVE CEILING WITH BISCUIT BOX TYPE CONNECTION.
 - ▽ TELECOMMUNICATIONS OUTLET MOUNTED BESIDE AN ELECTRICAL OUTLET. MOUNT AT +1'-6" AFF. *9" IN LEFT SYMBOL BOX MAY DIFFER.
 - ▽ TELECOMMUNICATIONS OUTLET MOUNTED BESIDE AN ELECTRICAL OUTLET. MOUNT AT +3'-10" AFF. *9" IN LEFT SYMBOL BOX MAY DIFFER.
 - ▽ TELECOMMUNICATIONS OUTLET MOUNTED BESIDE AN ELECTRICAL OUTLET. MOUNT AT +7'-6" AFF. *9" IN LEFT SYMBOL BOX MAY DIFFER.
 - ☑ POWER/COMMUNICATIONS/AV RECESSED FLOOR BOX. REFER TO TELECOMMUNICATIONS OUTLET CONDUIT DETAIL FOR BOX AND CONDUIT REQUIREMENTS.
 - SF SYSTEM FURNITURE COMMUNICATIONS CONNECTIONS VIA FLOOR BOX. PROVIDE 1.25" CONDUIT BELOW SLAB TO STUD-UP AT NEAREST COMMUNICATION BACK BOARD. COORDINATE WITH FURNITURE PROVIDER PRIOR TO ROUGH-IN.
 - SF SYSTEM FURNITURE COMMUNICATIONS CONNECTION VIA FLUSH WALL BOX MOUNTED +6" AFF. PROVIDE 1.25" CONDUIT WITH BUSHING FROM BOX TO ABOVE CEILING. COORDINATE WITH FURNITURE PROVIDER PRIOR TO ROUGH-IN.
 - TELECOMMUNICATIONS EQUIPMENT RACK.
 - 2" EMT CONDUIT SLEEVE WITH NYLON BUSHING EACH END UNO, THRU WALL AT +6" ABOVE FINISHED CEILING.
 - TGB TELECOMMUNICATIONS GROUND BUS BAR, MOUNT AT +1'-6" AFF.
 - WA CEILING MOUNTED WIRELESS ACCESS POINT, FURNISHED BY OWNER, INSTALLED BY CONTRACTOR. PROVIDE (2) CATEGORY 6A CABLES.
 - WA WALL MOUNTED WIRELESS ACCESS POINT, FURNISHED BY OWNER, INSTALLED BY CONTRACTOR. PROVIDE (2) CATEGORY 6A CABLES. PROVIDE RIGHT ANGLE BRACKET.

GRAPHICS SYMBOLS LEGEND

- A123 SPACE IDENTIFICATION TAG
SPACE NUMBER
BUILDING AREA (WHEN USED)
- SECTION WHERE CUT
SECTION NUMBER
DRAWING WHERE SECTION IS INDICATED
- ENLARGED PLAN WHERE CUT
ENLARGED PLAN NUMBER
DRAWING WHERE ENLARGED PLAN IS INDICATED
- DETAIL TAG
DETAIL NUMBER
DRAWING WHERE DETAIL IS INDICATED
- DETAIL TITLE
DETAIL NUMBER
DRAWING WHERE DETAIL IS INDICATED
DRAWING WHERE DETAIL IS CUT
ADDITIONAL DRAWING REFERENCES
- SECTION TITLE
SECTION NUMBER
DRAWING WHERE SECTION IS INDICATED
DRAWING WHERE SECTION IS CUT
ADDITIONAL DRAWING REFERENCES

KEYNOTES

- APPLIES TO THIS DRAWING
- 1 PROVIDE TELECOMMUNICATIONS OUTLET ABOVE ACCESSIBLE CEILING, ADJACENT TO DOOR. PATCH CORD TO ROOM SCHEDULING EQUIPMENT TO BE PROVIDED BY OWNER.



PROJECT NO:	620589
DATE:	FEBRUARY 10, 2023
REVISIONS	
DATE	DESCRIPTION



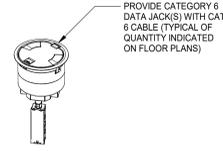
PROJECT NO:	620589
DATE:	FEBRUARY 10, 2023
REVISIONS	
DATE	DESCRIPTION

KEYNOTES
 APPLIES TO THIS DRAWING

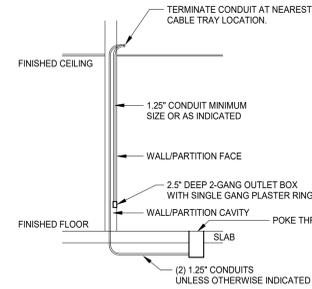
- CUT & RETERMINATE ALL EXISTING 1ST FLOOR VOICE CABLING (CAT 6). PROVIDE PATCH PANELS AS INDICATED. TERMINATE AND TEST AT BOTH ENDS AS T568B IN LIEU OF PREVIOUS UTI LIZE TERMINATION STANDARD. PROVIDE UPDATED LABEL ON FACEPLATE. PROVIDE REPLACEMENT FACEPLATE FOR END-POINT SIDE AND LABEL WITH UPDATED ID.
- CUT & RETERMINATE ALL EXISTING 1ST FLOOR DATA CABLING (CAT 6). PROVIDE PATCH PANEL AS INDICATED. TERMINATE AND TEST AT BOTH ENDS. PROVIDE REPLACEMENT FACEPLATE FOR END-POINT SIDE AND LABEL WITH UPDATED ID.
- PROVIDE #6 GROUNDING CONDUCTOR TO TGB. TYPICAL FOR EACH RACK.
- PROVIDE #6 GROUNDING CONDUCTOR TO TGB FROM EXISTING LADDER RACK.

GENERAL NOTES

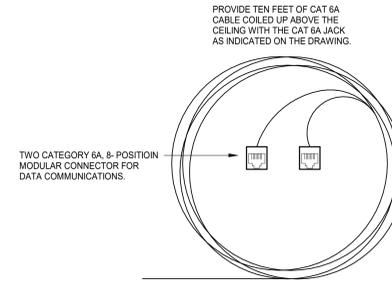
- PROVIDE QUANTITY OF PATCH PANELS TO PROVIDE CABLING TO ALL DATA JACKS PLUS 25% SPARE.
- REFER TO SPECIFICATIONS FOR PATCH CABLE REQUIREMENTS.



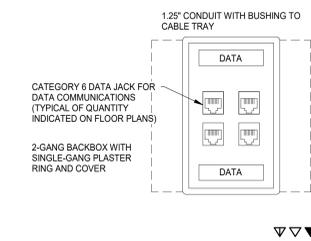
1 POKE-THRU DETAIL - TELECOMMUNICATIONS
 NO SCALE



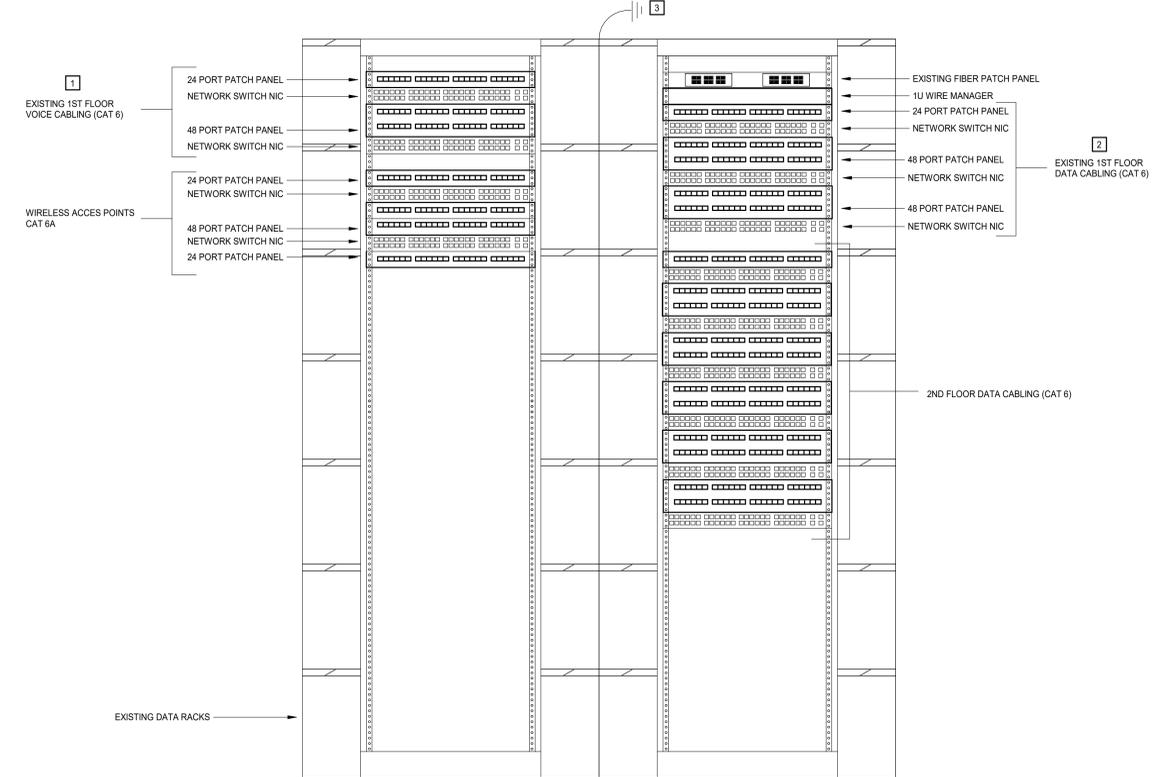
2 TELECOMMUNICATIONS OUTLET DETAIL - POKE THRU & WALL
 NO SCALE



3 WIRELESS ACCESS POINT CABLING DETAIL
 NO SCALE



4 TELECOMMUNICATION OUTLET DETAIL
 NO SCALE



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