

ETSU BUILDING 2 RENOVATION

EAST TENNESSEE STATE UNIVERSITY

BUILDING #2 DOGWOOD AVE
VA MEDICAL CENTER CAMPUS
MOUNTAIN HOME, TN 37684

SCHEMATIC DESIGN
01.07.2021

PROJECT SCOPE

RENOVATION OF LEVEL 1 OF BUILDING NO.2 OF THE JAMES H. QUILLEN COLLEGE OF MEDICINE AT EAST TENNESSEE STATE UNIVERSITY. SPACES INCLUDE CLASSROOMS, FACULTY OFFICES, LABORATORY SPACE, AND STUDY/MEETING ROOMS. THIS BUILDING IS LOCATED ON THE CAMPUS OF THE 'MOUNTAIN BRANCH HOME FOR DISABLED VOLUNTEER SOLDIERS', A U.S. NATIONAL HISTORIC LANDMARK.

APPLICABLE CODES -- TENNESSEE STATE FIRE MARSHAL'S OFFICE.

INTERNATIONAL BUILDING CODE 2012
INTERNATIONAL ENERGY CONSERVATION CODE 2012
INTERNATIONAL GAS CODE 2012
INTERNATIONAL MECHANICAL CODE 2012
INTERNATIONAL PLUMBING CODE 2012
INTERNATIONAL FIRE CODE 2012
INTERNATIONAL EXISTING BUILDING CODE 2012
LIFE SAFETY CODE (NFPA 101) 2012

BUILDING CLASSIFICATIONS

IBC OCCUPANCY: BUSINESS
IBC CONSTRUCTION TYPE: TYPE IIB, SPRINKLERED
NFPA OCCUPANCY: EXISTING BUSINESS (LSC CHAPTER 39)
NFPA CONSTRUCTION TYPE: TYPE III (2-1-1)

FIRE PROTECTION

INTERIOR BEARING WALLS: NO RATING
COLUMNS: NO RATING
BEAMS: NO RATING
FLOOR-CEILING ASSEMBLY: NO RATING
EXTERIOR BEARING WALL: 2 HR RATED
SHAFT ENCLOSURES: 2 HR RATED
OCCUPANCY SEPARATIONS: (NOT APPLICABLE)
SMOKE PARTITIONS: NO RATING, SMOKE TIGHT
*HAZARDOUS SPACE PROTECTION: SMOKE TIGHT (≥50SF) OR 1HR (≥100 SF)
SMOKE BARRIERS: (NOT APPLICABLE)
HORIZONTAL EXITS: (NOT APPLICABLE)

RATED ASSEMBLIES

FLOOR-CEILING (N/A): NO RATING
ROOF-CEILING (N/A): NO RATING
COLUMNS (N/A): NO RATING
EXTERIOR BEARING WALLS (EXISTING SOLID BRICK): 2 HOUR
SEE IBC TABLE 721.1(2), ITEM 1-1.2.

ZONING

ZONING JURISDICTION: JOHNSON CITY, TENNESSEE
EXISTING BUILDING ZONING: R-4, MEDIUM-DENSITY RESIDENTIAL DISTRICT

BUILDING DATA

ALLOWABLE HEIGHTS AND AREAS

BUILDING HEIGHT (STORIES) 4
BUILDING HEIGHT (FEET) 75 FEET
AREA PER STORY 37,000 SF
TOTAL BUILDING AREA (3 STORIES PLUS BASEMENT) 128,000 SF
NOTE: SEE IBC TABLE 503, SECTION 503.4.2, AND SECTION 508.3

ACTUAL HIEIGHTS

BUILDING HEIGHT (STORIES) 3 PLUS BASEMENT
BUILDING HEIGHT (FEET) 746 FEET
LEVEL 1 - RENOVATED AREA 13,400 SF
TOTAL BUILDING AREA (3 STORIES PLUS BASEMENT) APPROX 55,000 SF

SHEET NUMBER	SHEET NAME
GENERAL	
G-001	COVER SHEET
GI101	FIRST FLOOR LIFE SAFETY PLAN
ARCHITECTURAL	
A-001	ARCHITECTURAL LEGENDS AND NOTES
AD101	DEMOLITION PLANS
AE100	BASEMENT FLOOR PLAN
AE101	FIRST FLOOR PLAN
AE111	FIRST FLOOR REFLECTED CEILING PLAN
AE410	INTERIOR ELEVATIONS
AE411	INTERIOR ELEVATIONS
Mechanical	
M-001	MECHANICAL LEGEND
M-601	SCHEDULES
MD101	FIRST FLOOR DEMOLITION PLAN - HVAC
MD102	FIRST FLOOR DEMOLITION PLAN - PIPING
MH100	BASEMENT FLOOR NEW WORK PLAN - HVAC
MH101	FIRST FLOOR NEW WORK PLAN - HVAC
MP101	FIRST FLOOR NEW WORK PLAN - PIPING

SITE MAP



PROJECT TEAM

OWNER

EAST TENNESSEE STATE UNIVERSITY

ARCHITECT

CLARK NEXSEN
210 EAST WATAUGA AVENUE,
JOHNSON CITY , TN 37601
T: 423.929.2191
F: 757.455.5638

STRUCTURAL ENGINEER

LYNCH MYKINS
301 N WEST STREET, SUITE 105
RALEIGH, NC 27603
T: 919.782.1833

MECHANICAL, PLUMBING, ELECTRICAL AND FIRE PROTECTION ENGINEER

CLARK NEXSEN
210 EAST WATAUGA AVENUE,
JOHNSON CITY , TN 37601
T: 423.929.2191
F: 757.455.5638

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JOHNSON CITY, TN 37601
423.929.2191

PROFESSIONAL SEAL

SUBMITTAL

01.07.2021

SCHEMATIC DESIGN

REVISIONS

KEY PLAN

SHEET

COVER SHEET

G-001

DESIGN: Designer
DRAWN: Author
REVIEW: Checker

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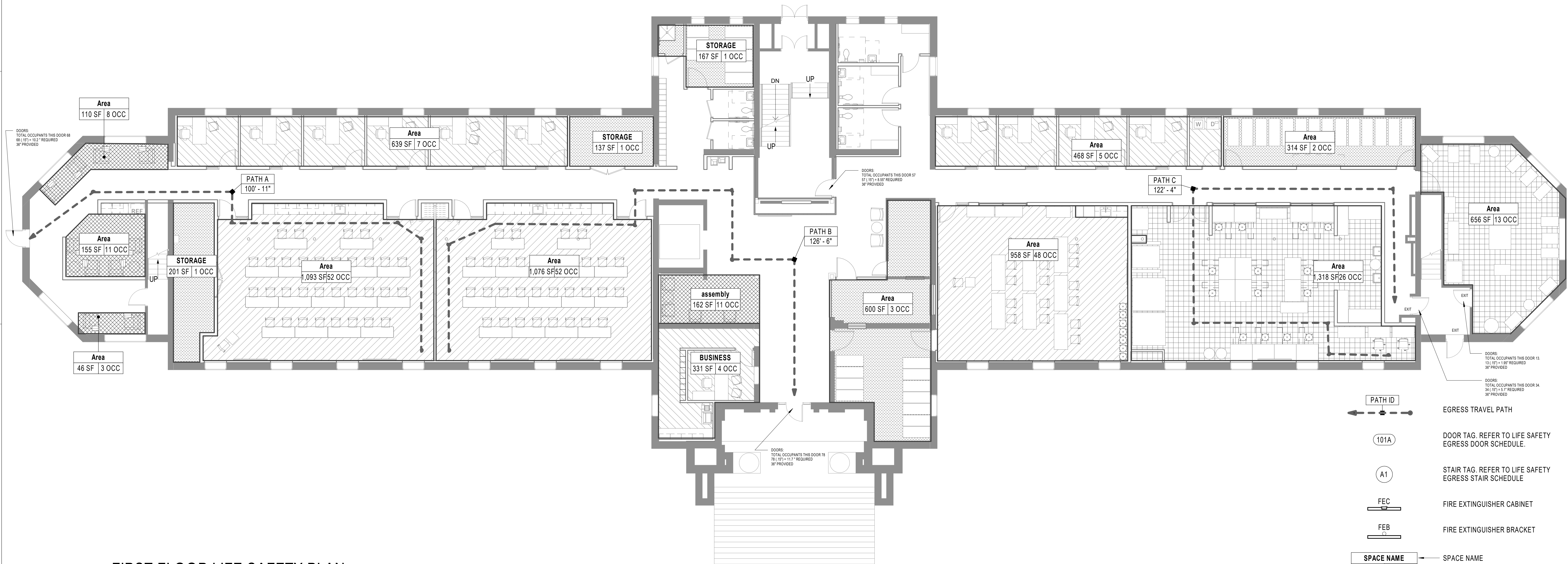
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6



A1 FIRST FLOOR LIFE SAFETY PLAN

1/8" = 1'-0"

LIFE SAFETY - OCCUPANT CALCULATION - FIRST FLOOR							
LEVEL	PATTERN	OCCUPANCY	SF PER PERSON	OCCUPANCY SF TYPE	AREA	PEOPLE	*NUMBER OF OCCUPANTS
FIRST FLOOR		ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	GROSS	1,419 SF	7	8
FIRST FLOOR		ASSEMBLY UNCONCENTRATED TABLES AND CHAIRS	15	NET	473 SF	34	33
FIRST FLOOR		BUSINESS AREAS	100	GROSS	1,439 SF	16	16
FIRST FLOOR		EDUCATIONAL CLASSROOM AREA	20	NET	3,126 SF	157	152
FIRST FLOOR		EDUCATIONAL SHOPS & OTHER VOCATIONAL	50	NET	1,974 SF	41	39
FIRST FLOOR TOTALS:					8,430 SF	255	248

* NUMBER OF OCCUPANTS IS AN AGGREGATE AND IS A RESULT OF ROUNDING UP INDIVIDUAL AREAS

LIFE SAFETY - STAIR SCHEDULE					
TOP LEVEL	STAIR MARK	CLEAR STAIR WIDTH PROVIDED	EGRESS WIDTH FACTOR	OCCUPANT LOAD MAX PROVIDED	OCCUPANT LOAD REQUIRED

LIFE SAFETY - EGRESS DOOR SCHEDULE - FIRST FLOOR							
DOOR NO.	CLEAR EGRESS WIDTH PROVIDED	EGRESS WIDTH FACTOR	OCCUPANT LOAD MAX PROVIDED	OCCUPANT LOAD REQUIRED	DELAYED EGRESS (SECONDS)	ELECTROMAGNETIC LOCK	HOLD OPEN DEVICE

PATH OF TRAVEL SCHEDULE	
MARK	LENGTH
PATH A	100'-11"
PATH B	126'-6"
PATH C	122'-4"

	ONE HALF HOUR FIRE RATING
	ONE HOUR FIRE RATING
	TWO HOUR FIRE RATING
	THREE HOUR FIRE RATING
	FOUR HOUR FIRE RATING
	SMOKE BARRIER (SB), SMOKE PARTITION (SP), OR PARTITION CAPABLE OF RESISTING THE PASSAGE OF SMOKE (S)

- COORDINATE ALL FIRE EXTINGUISHERS LOCATIONS SHOWN ON PLANS W/ LOCAL FIRE OFFICIAL'S REQUIREMENTS.
 - GC TO PROVIDE & INSTALL ALL BLOCKING IN WALLS AS REQUIRED FOR MOUNTING FIRE EXTINGUISHERS.
 - GC TO COORDINATE INSTALLATION REQUIREMENTS OF EXIT SIGNS, ALL ASSOCIATED HARDWARE, JUNCTION BOXES, WIRING & REQUIRED EXIT DEVICES W/ ELECTRICAL DRAWINGS & LOCAL INSPECTOR.
 - RATED WALLS AND PARTITIONS REQUIRED TO HAVE PROTECTED OPENINGS SHALL BE PERMANENTLY STENCILED EVERY 10'-0" ABOVE THE CEILING OR CONCEALED SPACE.
- EXAMPLE:
- 1-HOUR RATED BARRIER - PROTECT ALL OPENINGS

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FIRST FLOOR LIFE SAFETY PLAN

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E	MECHANICAL	<div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>SUPPLY GRILLE / RETURN GRILLE</div></div>	<div><div><div>#</div></div><div>NEW WORK KEYNOTE</div></div>	<div><div><div>#</div></div><div>DEMOLITION KEYNOTE</div></div>	<div>1. PLAN DIMENSIONS SHOWN ARE TO FACE OF FRAMING MEMBERS, FACE OF MASONRY, FACE OF EXISTING WALL AND TO CENTERLINE OF COLUMNS.</div> <div>2. ALL NOTES, DETAILS, AND FEATURES DRAWN AS APPLICABLE FOR ONE CONDITION ARE APPLICABLE TO SIMILAR CONDITIONS, WHETHER OR NOT SPECIFICALLY INDICATED.</div> <div>3. IN STUD WALLS, LOCATE ALL INTERIOR DOOR FRAMES A DISTANCE OF 4" (FOUR) INCHES FROM THE THROAT RETURN TO THE CLOSEST ADJACENT PERPENDICULAR PARTITION, UON. IN CMU WALLS, LOCATE MASONRY OPENING AT DOORS 8" (EIGHT) FROM THE PERPENDICULAR WALL.</div> <div>4. ALL ELEVATIONS ARE MEASURED FROM THE REFERENCE ELEVATION +0'-0", WHICH IS THE TOP OF THE FIRST FLOOR SLAB, UON.</div> <div>5. DO NOT SCALE DRAWINGS TO DETERMINE DIMENSIONS OR SIZES OF BUILDING ELEMENTS.</div> <div>6. ALL WOOD BLOCKING AND MISCELLANEOUS STEEL SHOWN IN DETAILS AND SECTIONS SHALL BE CONTINUOUS, UON.</div> <div>7. USE FIRE-RETARDANT TREATED WOOD PRODUCTS FOR ALL CONCEALED WOOD BLOCKING, UON.</div> <div>8. USE PRESERVATIVE-TREATED WOOD PRODUCTS FOR ALL WOOD BLOCKING IN CONTACT WITH EXTERIOR MASONRY OR CONCRETE WALLS, AND FOR ALL WOOD BLOCKING IN CONTACT WITH CONCRETE SLABS ON GRADE.</div> <div>9. VERIFY ALL DIMENSIONS. BRING ANY DISCREPANCIES TO THE IMMEDIATE ATTENTION OF THE ARCHITECT.</div> <div>10. NOTIFY ARCHITECT OF ANY DISCREPANCY BETWEEN DRAWINGS, SPECIFICATIONS AND/OR EXISTING CONDITIONS.</div> <div>11. PROVIDE WOOD OR METAL BLOCKING BEHIND GWB AT THE FOLLOWING LOCATIONS:<div>A. ALL WALL-MOUNTED OR CEILING-MOUNTED DOOR STOPS, DOOR HOLD-OPEN DEVICES, AND OTHER HARDWARE.</div><div>B. ALL WALL-MOUNTED TOILET ACCESSORIES, AT GRAB BARS, PROVIDE BLOCKING CAPABLE OF RESISTING A MINIMUM LOAD OF 250 POUNDS APPLIED VERTICALLY OR HORIZONTALLY AT ANY POINT ON THE GRAB BAR.</div><div>C. ALL WALL-MOUNTED PLUMBING FIXTURES, INCLUDING BUT NOT LIMITED TO LAVATORIES, SINKS, URINALS, WATER CLOSETS, AND WATER COOLERS. PROVIDE BLOCKING CAPABLE OF RESISTING A MINIMUM LOAD OF 400 POUNDS APPLIED VERTICALLY AT ANY POINT ON THE PLUMBING FIXTURE.</div><div>D. ALL WALL-MOUNTED CABINETRY, SHELVING, AND SIMILAR ITEMS.</div><div>E. ALL WALL-MOUNTED VIDEO MONITORS, AND SIMILAR ITEMS.</div></div> <div>12. ALL MATERIALS USED IN THE PROJECT SHALL BE NEW AND PROVIDED BY THE CONTRACTOR, UON.</div> <div>13. USE BITUMINOUS MEMBRANE TO SEPARATE PRESERVATIVE-TREATED WOOD PRODUCTS FROM CONTACT WITH ANY METAL SURFACE.</div>
		<div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>EXHAUST FAN</div></div>	<div><div><div><div><div>W1</div></div><div><div>L1</div></div><div><div>C1</div></div><div><div>S1</div></div></div><div>WINDOW / LOUVER / CURTAIN WALL / STOREFRONT DESIGNATION</div></div></div>	<div><div><div>A</div></div><div>SPECIALTY ITEM DESIGNATION</div></div>	
	ELECTRICAL	<div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>INDICATES BRACKET, WALL MOUNTED ELECTRICAL LIGHT / FIXTURE / EQUIPMENT, ETC</div></div>	<div><div><div><div></div><div></div></div><div>FLOOR DRAIN</div></div></div>	<div><div><div><div>1</div></div><div>REVISION TAG</div></div></div>	
		<div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>LIGHT FIXTURE</div></div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>EMERGENCY EGRESS LIGHT FIXTURE</div></div></div>	<div><div><div><div>1</div><div></div><div></div></div><div>COLUMN GRID LINE</div></div></div>	<div><div><div><div>E1</div><div></div><div></div></div><div>EXISTING COLUMN GRID LINE</div></div></div>	
		<div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>CEILING MOUNTED EXIT LIGHT</div></div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>CEILING MOUNTED EXIT LIGHT W/ ARROW</div></div></div>	<div><div><div><div><div>ROOM NAME</div><div>101</div></div><div>ROOM DESIGNATION</div></div></div></div>	<div><div><div><div><div>FIRST FLOOR</div><div>+12'-0"</div></div><div>ELEVATION DATUM</div></div></div></div>	
		<div><div><div><div><div>OS</div></div><div>CEILING MOUNTED OCCUPANCY SENSOR</div></div></div></div>	<div><div><div><div><div></div><div></div></div><div>DIRECTION OF SLOPE</div></div></div></div>	<div><div><div><div><div>4</div><div>12</div></div><div>ROOF SLOPE</div></div></div></div>	
		<div><div><div><div><div></div><div></div></div><div>CEILING MOUNTED RECEPTACLE</div></div></div></div>	<div><div><div><div><div>FEC</div></div><div>FIRE EXTINGUISHER CABINET</div></div></div></div>	<div><div><div><div><div>FEB</div></div><div>FIRE EXTINGUISHER BRACKET</div></div></div></div>	
		<div><div><div><div><div></div><div></div></div><div>CEILING MOUNTED SECURITY CAMERA</div></div></div></div>	<div><div><div><div><div></div><div></div></div><div>ACCESSIBLE BEDROOMS - MOBILITY FEATURES</div></div></div></div>	<div><div><div><div><div></div><div></div></div><div>ACCESSIBLE BEDROOMS - COMMUNICATION FEATURES</div></div></div></div>	
	D	FIRE PROTECTION	<div><div><div><div></div><div></div></div><div>INDICATES BRACKET, WALL MOUNTED FIRE PROTECTION FIXTURE / EQUIPMENT, ETC</div></div></div>	<div><div><div><div><div>A1 / AE101</div><div></div></div><div>ADJACENT AREA REFERENCE MATCHLINE</div></div></div></div>	<div><div><div><div><div>CJ</div><div>CONTROL JOINT</div></div><div><div>BSJ</div><div>BUILDING SEPARATION JOINT</div></div><div><div>EJ</div><div>EXPANSION JOINT</div></div></div></div></div>
			<div><div><div><div><div></div><div></div></div><div>SPRINKLER HEAD</div></div></div></div>	<div><div><div><div><div>A1</div><div>NAME</div><div>SCALE:</div></div><div>DETAIL, SECTION, ELEVATION TITLE</div></div></div></div>	
<div><div><div><div><div>V</div><div></div></div><div>FIRE ALARM STROBE / FIRE ALARM HORN STROBE</div></div><div><div><div>F</div><div></div></div></div></div></div>			<div><div><div><div><div></div><div></div></div><div>PLAN NORTH INDICATOR TRUE NORTH INDICATOR</div></div><div><div><div><div><div>A1</div><div>NAME</div><div>SCALE:</div></div><div>PLAN TITLE AND NORTH ARROW</div></div></div></div></div></div>		
<div><div><div><div><div>S</div><div></div></div><div>SMOKE DETECTOR</div></div></div></div>			<div><div><div><div><div>A1</div><div>DETAIL / PLAN NUMBER</div></div></div></div></div>		
<div><div><div><div><div>S</div><div></div></div><div>DETAIL / ENLARGED PLAN</div></div><div><div><div></div><div></div></div><div>SHEET WHERE SHOWN</div></div></div></div>			<div><div><div><div><div>A1</div><div>ELEVATION NUMBER</div></div></div></div></div>		
<div><div><div><div><div>S</div><div></div></div><div>SPEAKER / SPEAKER W/ STROBE</div></div></div></div>			<div><div><div><div><div>A4</div><div>AE201</div><div>A2</div></div><div>INTERIOR ELEVATION</div></div><div><div><div></div><div></div></div><div>SHEET WHERE SHOWN</div></div></div></div>		
<div><div><div><div><div>CO</div></div><div>CARBON MONOXIDE SENSOR</div></div></div></div>			<div><div><div><div><div>A1</div><div>ELEVATION NUMBER</div></div></div></div></div>		
<div><div><div><div><div>H</div><div>P</div></div><div>HEAT SENSOR / PHOTO SENSOR</div></div></div></div>			<div><div><div><div><div>A1</div><div>AE201</div></div><div>EXTERIOR ELEVATION</div></div><div><div><div></div><div></div></div><div>SHEET WHERE SHOWN</div></div></div></div>		
C		ARCHITECTURAL	<div><div><div><div><div>EXP</div></div><div>EXPOSED CEILING</div></div></div></div>	<div><div><div><div><div>A1</div><div>AE301</div><div>A1</div><div>AE301</div></div><div>BUILDING SECTION</div></div><div><div><div></div><div></div></div><div>SHEET WHERE SHOWN</div></div></div></div>	
			<div><div><div><div><div>8'-0"</div></div><div>CEILING HEIGHT</div></div></div></div>	<div><div><div><div><div>A1</div><div>AE301</div></div><div>DETAIL / WALL SECTION</div></div><div><div><div></div><div></div></div><div>SHEET WHERE SHOWN</div></div></div></div>	
	<div><div><div><div><div></div><div></div></div><div>ACCESS PANEL</div></div></div></div>		<div><div><div><div><div>A1</div><div>DETAIL NUMBER</div></div><div>DETAIL SECTION</div></div><div><div><div></div><div></div></div><div>SHEET NUMBER NOTED IN GENERAL NOTES ON SHEET</div></div></div></div>		
	<div><div><div><div><div></div><div></div></div><div>CEILING FAN</div></div></div></div>		<div><div><div><div><div>A1</div><div>AE301</div></div><div>PHOTOGRAPH / 3D VIEW REFERENCE</div></div><div><div><div></div><div></div></div><div>A1 / AE101</div></div></div></div>		
	<div><div><div><div><div></div><div></div></div><div>2' x 2' ACOUSTICAL TILE LAY-IN CEILING</div></div><div><div><div></div><div></div></div><div>2' x 4' ACOUSTICAL TILE LAY-IN CEILING</div></div><div><div><div></div><div></div></div><div>4' x 4' ACOUSTICAL TILE LAY-IN CEILING</div></div></div><div><div><div><div></div><div></div></div><div>GWB CEILING / SOFFIT</div></div><div><div><div></div><div></div></div><div>WOOD CEILING / SOFFIT</div></div><div><div><div></div><div></div></div><div>METAL PANEL CEILING / SOFFIT</div></div></div></div>		<div><div><div><div><div>XX.X</div></div><div>PARTITION / WALL TYPE</div></div></div></div>		
			<div><div><div><div><div>120</div></div><div>DOOR NUMBER</div></div></div></div>		
	B	ARCHITECTURAL			
MECHANICAL					
ELECTRICAL					
FIRE PROTECTION					
ARCHITECTURAL					
A	ARCHITECTURAL				
	MECHANICAL				
	ELECTRICAL				
	FIRE PROTECTION				
	ARCHITECTURAL				

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ARCHITECTURAL LEGENDS AND NOTES
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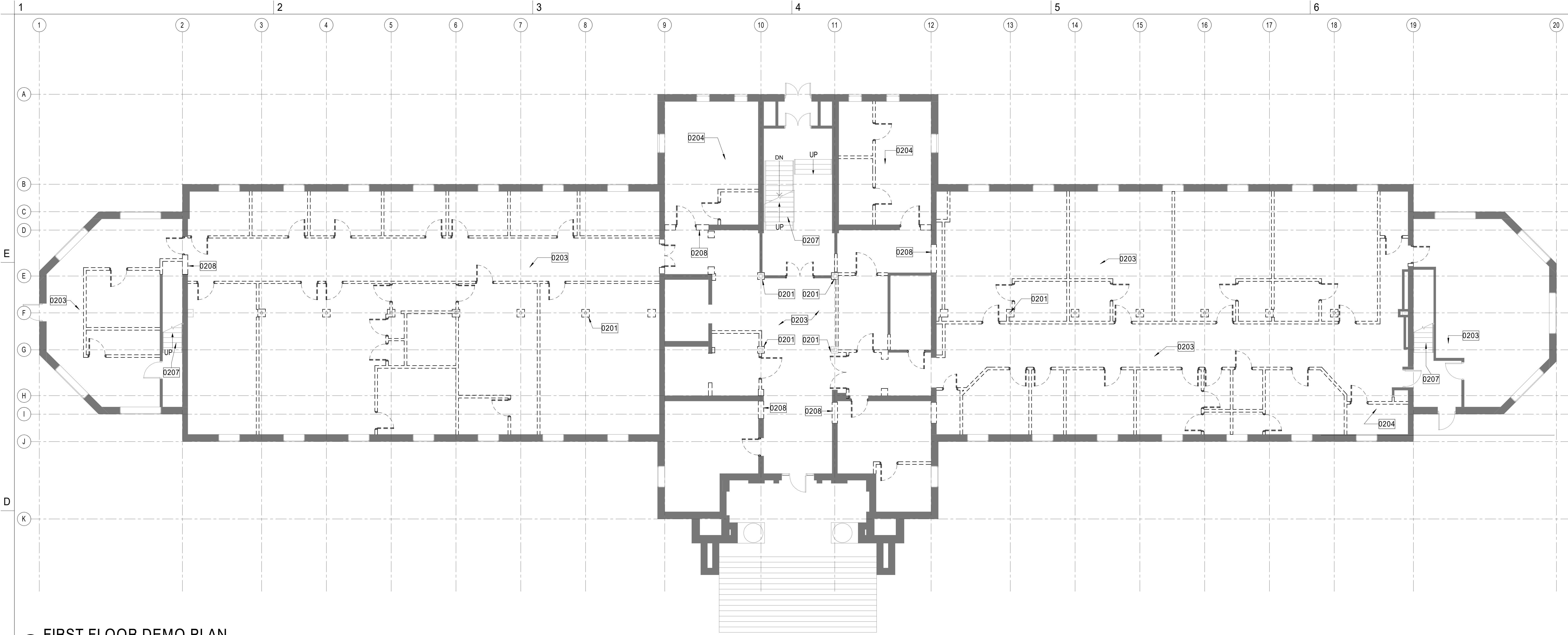
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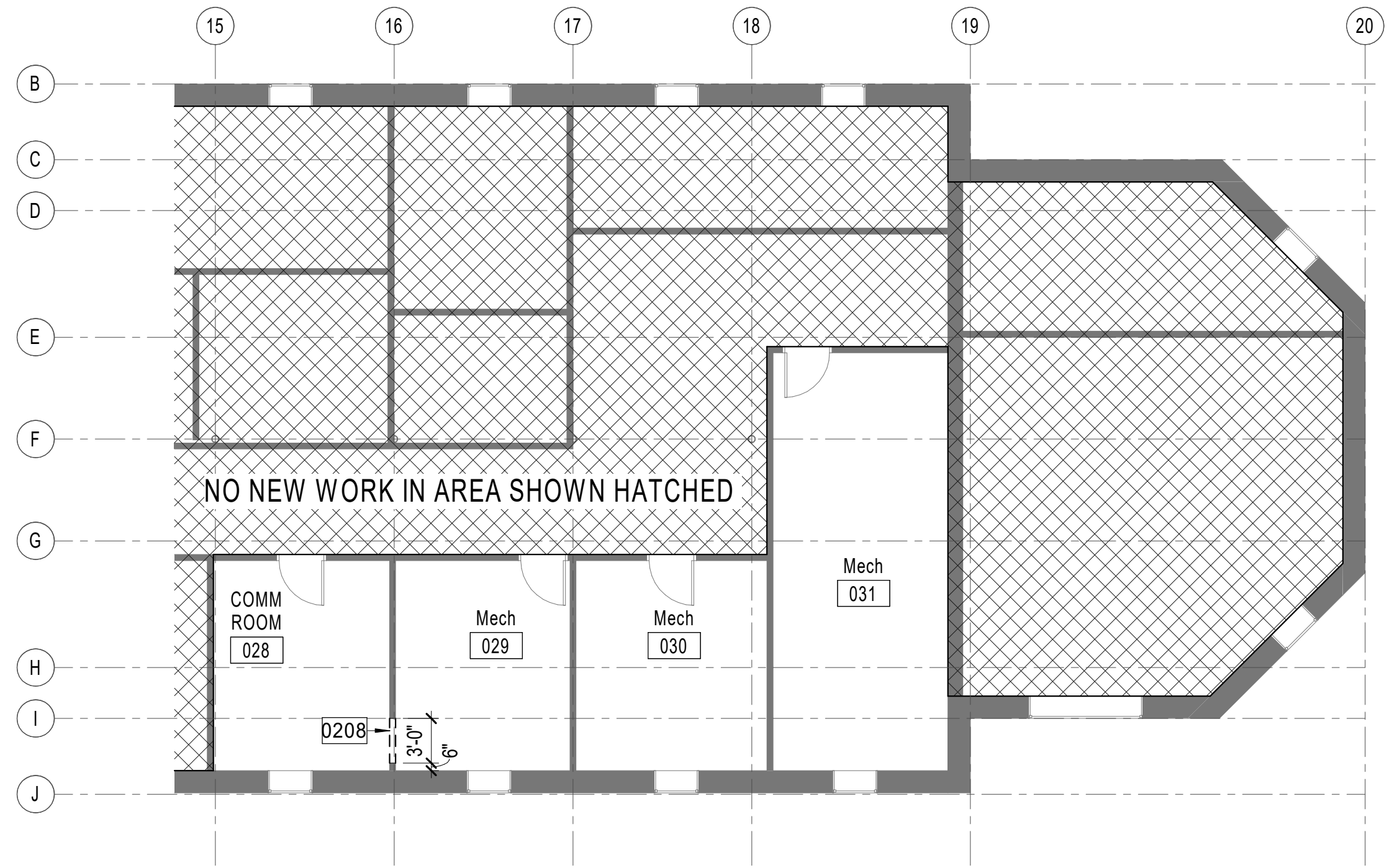
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C1 FIRST FLOOR DEMO PLAN
1/8" = 1'-0"



B5 PARTIAL BASEMENT DEMO PLAN
1/8" = 1'-0"

GENERAL NOTES

- ALL ITEMS SALVAGED FOR OWNER SHALL BE PRESENTED TO THE OWNER FOR THE FIRST RIGHT OF REFUSAL. IF OWNER CHOOSES TO RETAIN ITEMS, THE CONTRACTOR WILL MOVE ITEMS TO THE LOCATION OF THE OWNERS CHOOSING ON SITE. IF OWNER CHOOSES TO NOT RETAIN ITEMS, CONTRACTOR IS TO DISPOSE OF ITEMS LEGALLY OFF SITE.
- ALL ITEMS SALVAGED FOR REINSTALLATION SHALL BE PROTECTED FROM DAMAGE AND STORED ON SITE IN A SECURE LOCATION. ITEMS TO BE REINSTALLED WILL BE CLEANED PRIOR TO INSTALLATION. IF ITEM IS DAMAGED IN ACT OF REMOVAL FROM ITS CURRENT LOCATION, NOTIFY OWNER AND ARCHITECT IMMEDIATELY.

- EXISTING WALL TO REMAIN
- EXISTING WALL TO BE REMOVED IN ITS ENTIRETY
- PORTION OF EXISTING WALL TO BE DEMOLISHED TO RECEIVE NEW WORK (REFER TO NEW FLOOR PLANS)
- EXISTING DOOR TO REMAIN
- EXISTING DOOR AND HARDWARE TO BE REMOVED. FRAME TO REMAIN IN PLACE. REFER TO NEW WORK FLOOR PLANS FOR DOOR TAGS.
- EXISTING WALL, DOOR, FRAME AND HARDWARE TO BE REMOVED IN THEIR ENTIRETY
- EXISTING PLUMBING FIXTURES TO BE REMOVED
- DENOTES NEW OPENING IN EXISTING FLOOR SLAB (REFER TO STRUCTURAL)

KEY NOTES

0201	DEMOLISH AND REMOVE EXISTING STRUCTURAL COLUMN FINISHES. PREP COLUMN FOR NEW WORK. VERIFY CONDITION OF COLUMN PRIOR TO ANY WORK. TYPICAL AT GRID LINE "F"
0203	DEMOLISH AND REMOVE EXISTING FLOOR FINISHES THROUGHOUT. PREP AREA FOR NEW WORK.
0204	DEMOLISH AND REMOVE ALL PLUMBING FIXTURES & ACCESSORIES WITHIN INDICATED SPACE
0207	EXISTING STAIR AND FINISHES TO REMAIN.
0208	CUT MASONRY WALL TO CREATE OR ENLARGE OPENING, SEE STRUCTURAL DWGS FOR DETAILS

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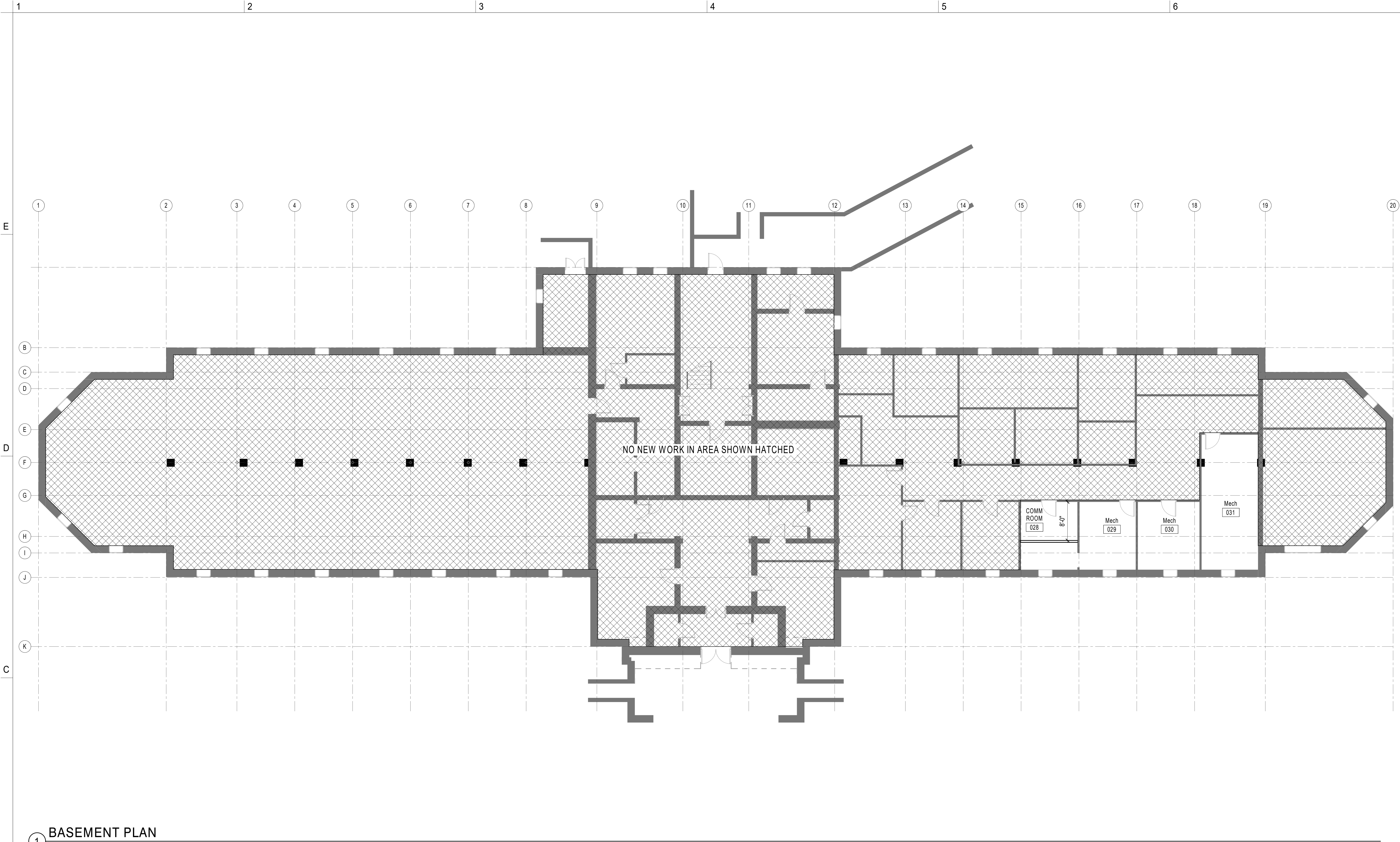
DEMOLITION PLANS

DESIGN: Designer
DRAWN: Author
REVIEW: Checker

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AD101

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

GENERAL NOTES

1. PLAN DIMENSIONS SHOWN ARE TO FACE OF FRAMING MEMBERS, FACE OF MASONRY, FACE OF EXISTING WALL, AND TO CENTER LINE OF COLUMNS, EXCLUSIVE OF INTERIOR WALLS.
2. ALL INTERIOR DIMENSIONS ARE TO FACE OF PARTITION ASSEMBLY AS DEFINED BY THE PARTITION SCHEDULE AND IS EXCLUSIVE OF ANY APPLIED FINISH.
3. ALL FURNITURE AND LAB EQUIPMENT SHOWN GRAY ON PLANS TO BE BY OWNER
4. ALL DIMENSIONS TO BE FIELD VERIFIED PRIOR TO INSTALLATION OF EQUIPMENT / SHELVING / CASEWORK.
5. ANY CONFLICTING INFORMATION BETWEEN THE ARCHITECTURAL DRAWINGS AND THE CIVIL, LANDSCAPE, STRUCTURAL, FIRE PROTECTION, PLUMBING, HVAC, AUDIO VISUAL OR ELECTRICAL DRAWINGS SHALL BE NOTED IN WRITING TO THE ARCHITECT FOR REVIEW AND MUST BE CLARIFIED PRIOR TO COMMENCING THE CONSTRUCTION IN QUESTION.
6. PROVIDE FIRE RETARDANT TREATED WOOD BLOCKING IN METAL STUD PARTITIONS FOR MOUNTING FIXTURES, MILLWORK, SHELVING, HARDWARE, DOOR STOPS AND OTHER EQUIPMENT.
7. VERIFY AND COORDINATE PENETRATIONS THROUGH FLOOR SLABS, ROOF DECK AND PARTITIONS WITH PM&E AND FP DRAWINGS.
8. VERIFY AND COORDINATE FINISH FLOOR ELEVATIONS WITH CIVIL AND STRUCTURAL PRIOR TO COMMENCING CONSTRUCTION. NOTIFY ARCHITECT IN WRITING BEFORE CONSTRUCTION OF ANY CONFLICTS.
9. REFER TO SHEET AE601 FOR DOOR SCHEDULE. REFER TO SHEET AE611 - AE612 FOR CURTAIN WALL, LOUVER, AND STOREFRONT ELEVATIONS.

KEY NOTES

EAST TENNESSEE STATE UNIVERSITY

ETSU BUILDING 2
RENOVATION

BUILDING #2 DOGWOOD AVE
VA MEDICAL CENTER CAMPUS
MOUNTAIN HOME, TN 37684

DESIGNER



CLARK NEXSEN

210 E. WATAUGA AVENUE
JOHNSON CITY, TN 37601
423.929.2191

PROFESSIONAL SEAL

SUBMITTAL

01.07.2021

SCHEMATIC DESIGN

REVISIONS

KEY PLAN

SHEET

BASEMENT FLOOR PLAN

AE100

DESIGN: Designer
DRAWN: Author
REVIEW: Checker

CN 9195

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B1 FIRST FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES

1. PLAN DIMENSIONS SHOWN ARE TO FACE OF FRAMING MEMBERS, FACE OF MASONRY, FACE OF EXISTING WALL, AND TO CENTER LINE OF COLUMNS, EXCLUSIVE OF INTERIOR WALLS.
2. ALL INTERIOR DIMENSIONS ARE TO FACE OF PARTITION ASSEMBLY AS DEFINED BY THE PARTITION SCHEDULE AND IS EXCLUSIVE OF ANY APPLIED FINISH.
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4. ALL DIMENSIONS TO BE FIELD VERIFIED PRIOR TO INSTALLATION OF EQUIPMENT / SHELVING / CASEWORK.
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9. REFER TO SHEET AE601 FOR DOOR SCHEDULE. REFER TO SHEET AE611 - AE612 FOR CURTAIN WALL, LOUVER, AND STOREFRONT ELEVATIONS.

KEY NOTES

0503	EXISTING STEEL COLUMN, PAINTED, TYPICAL ALONG GRID LINE "F"
0601	BUILT-IN CASEWORK
0604	BUILT-IN MAILBOXES, P-LAM ON 3/4" PLYWOOD
0605	CUSTOM WOOD DISPLAY CASE
0607	PHENOLIC LOCKERS
0608	EXISTING WOOD COLUMN, SANDED AND FINISHED
0609	PLYWOOD WALL TO MATCH ADJ. DISPLAY CASE
0802	ACOUSTICALLY SEALED FOLDING PARTITION WALL
0805	EXISTING EXTERIOR WINDOW TO REMAIN, PAINT EXISTING WOOD TRIM
0807	PAINTED ALUMINUM COILING DOOR
0808	ALUMINUM SLIDING WINDOW
0907	GYPSUM BOARD, PAINTED
1102	WALL MOUNTED T.V., OFCI.
1103	EQUIPMENT, NIC
1104	MOBILE STORAGE RACK, NIC
1201	FURNITURE, NIC
1202	WORK BENCH, NIC
1203	OFFICE FURNITURE, NIC

1204	DRY ERASE BOARD
2102	EXISTING FIRE SPRINKLER RISER
2301	EXHAUST HOOD, SEE MECHANICAL DRAWINGS
2601	CARDKEY READER, SEE ELECTRICAL DRAWINGS
2606	NEW ELECTRICAL PANEL, SEE ELECTRICAL DRAWINGS
2612	EXISTING ELECTRICAL PANELS- SEE ELECTRICAL SHEETS
2801	FIRE ALARM CONTROL PANEL

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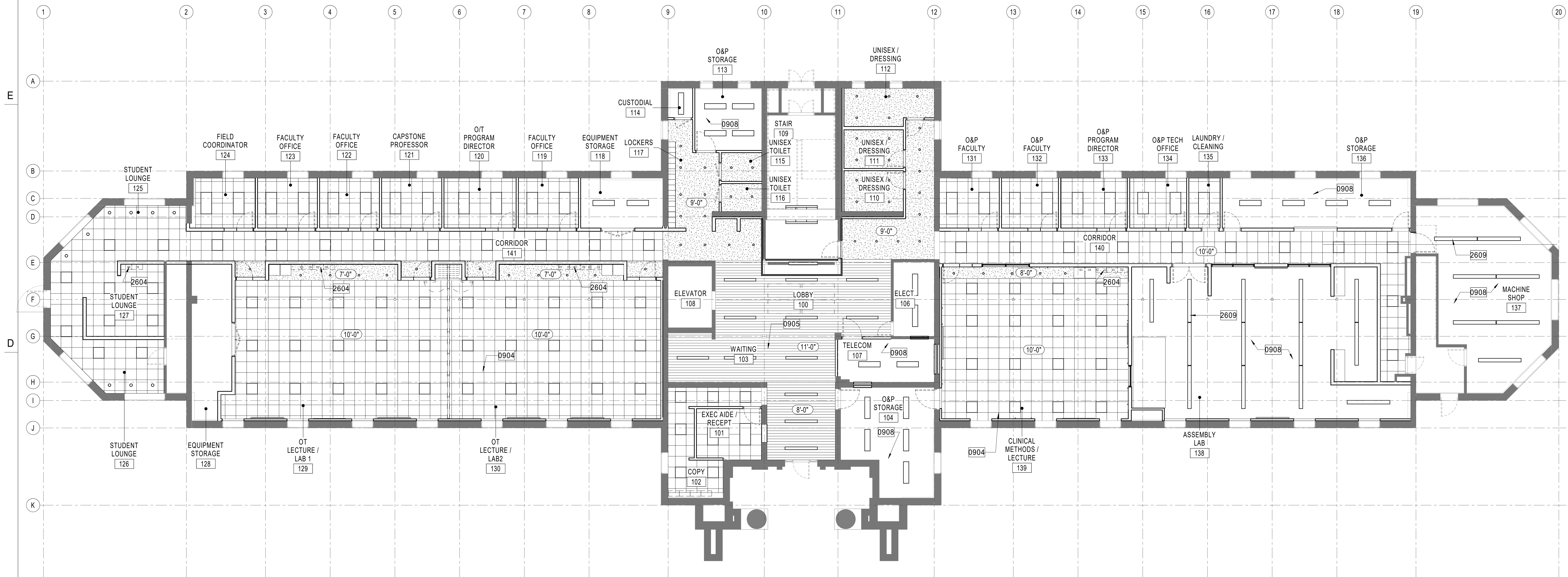
SHEET

FIRST FLOOR PLAN








AE101

DESIGN: Designer
DRAWN: Author
REVIEW: Checker

CN 9195



(C1) $1/8" = 1'-0"$

	2 X 4 LAY IN TROFFER FIXTURE
	2 X 2 LAY IN TROFFER FIXTURE
	UTILITY CLOSET PENDANT FIXTURE
	RECESSED LINEAR 4" X 48" FIXTURE
	4" ROUND RECESSED CAN FIXTURE
	8" X 96" LINEAR PENDANT FIXTURE (DIRECT / INDIRECT)
	LINEAR UNDER CABINET MOUNTED FIXTURE

$$\frac{1}{8}'' = 1'-0''$$

2 X 2 ACT

GYPSUM WALL BOARD

WOOD CEILING

$$\frac{1}{8}'' = 1'-0''$$

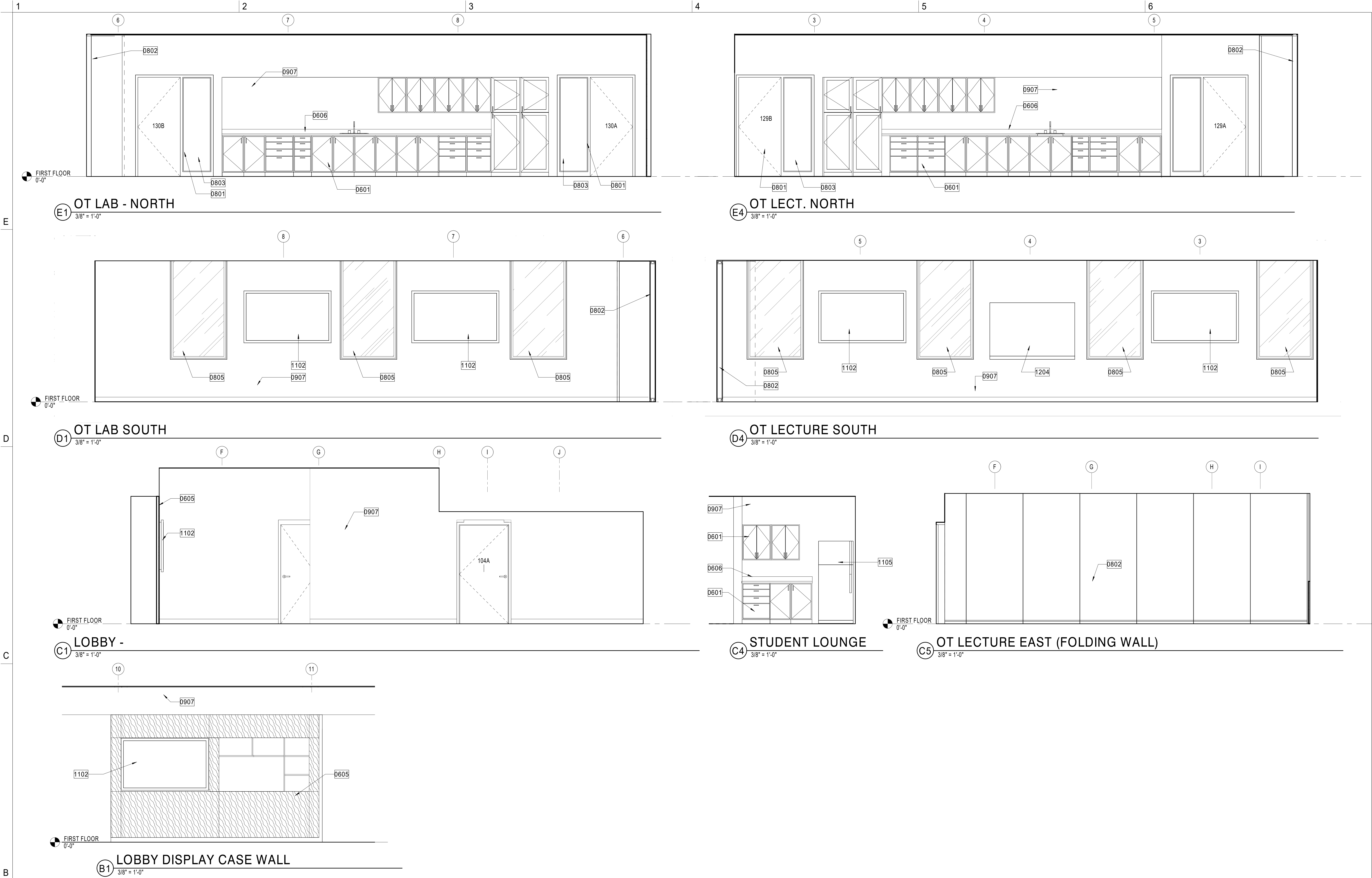
GENERAL NOTES

1. REFER TO SHEET A-001 FOR RCP LEGEND
2. REFER TO SHEETS AExxx - AExxx FOR CEILING DETAILS.
3. ALL CEILINGS ARE X"x" AFF, UON.
4. HVAC & LIGHTING FIXTURES SHOWN ARE FOR GRAPHICAL PURPOSES ONLY. GC TO REFER TO PME DRAWINGS AND SPRINKLER PIPING SHOP DRAWINGS AND SHOULD NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICTS OR DISCREPANCIES.
5. GENERAL CONTRACTOR TO COORDINATE ALL SOFFIT/ BULKHEAD FRAMING WITH FINAL LIGHTING FIXTURES & HVAC DIFFUSER LOCATIONS.
6. GENERAL CONTRACTOR TO FIELD VERIFY CEILING HEIGHTS SHOWN ON RCP DRAWINGS PRIOR TO INSTALLATION OF ALL MECHANICAL DUCTWORK, SPRINKLER PIPING, ELECTRICAL EQUIPMENT, CONDUITS, ETC. ARCHITECT TO BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
7. GENERAL CONTRACTOR TO INSTALL WIRE HANGERS @ ALL CORNERS OF LIGHT FIXTURES, REGISTERS, & GRILLES.
8. REFER TO INTERIOR & EXTERIOR SECTIONS FOR ADDITIONAL CEILING DETAILS NOT NOTED ON THIS SHEET.
9. ALL RECESSED LIGHTING SHALL BE CENTERED WITHIN THE SOFFIT DIMENSIONS, UON.
10. WHERE ACT IS LOCATED, ALL FIXTURES INCLUDING BUT NOT LIMITED TO MOTION DETECTORS, FIRE ALARM DEVICES, & SPRINKLER HEADS, ARE TO BE LOCATED IN THE CENTER OF THE TILE.
11. WHERE GWB SOFFITS SPAN LONGER THAN 30'-0", CONTROL JOINTS SHOULD BE LOCATED IN GWB SOFFIT EVERY 30'-0". ALIGN WITH CONTROL JOINTS IN GWB WALLS WHERE PRESENT.

KEY NOTES

0904	ACT CEILING
0905	WOOD SLAT CEILING WITH ACCESS PANELS DIVISION 09-FINISHES
0907	GYPSUM BOARD, PAINTED
0908	OPEN TO PAINTED STRUCTURE
2604	LIGHTING FIXTURE, UNDER CABINET MOUNTED, SEE ELECTRICAL DRAWINGS.
2609	LINEAR PENDANT LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS

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GENERAL NOTES

KEY NOTES

0601	BUILT-IN CASEWORK
0605	CUSTOM WOOD DISPLAY CASE
0606	SOLID SURFACE COUNTERTOP
0801	ALUMINUM STOREFRONT SYSTEM
0802	ACCOUSTICALLY SEALED FOLDING PARTITION WALL
0803	INTERIOR SIDELITE GLAZING
0805	EXISTING EXTERIOR WINDOW TO REMAIN, PAINT EXISTING WOOD TRIM
0907	GYPSUM BOARD, PAINTED
1102	WALL MOUNTED T.V., OFCI.
1105	RERIDGERATOR, OFOI
1204	DRY ERASE BOARD

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SCHEMATIC DESIGN

REVISIONS

KEY PLAN

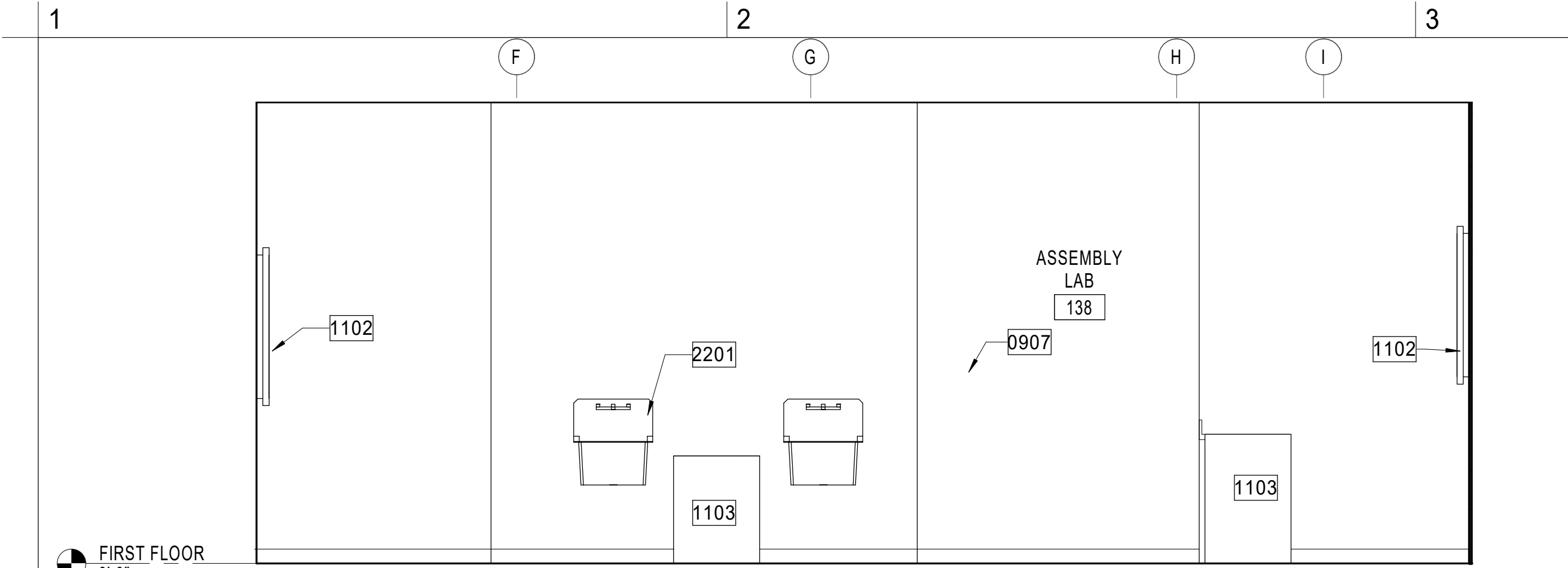
INTERIOR ELEVATIONS

AE410

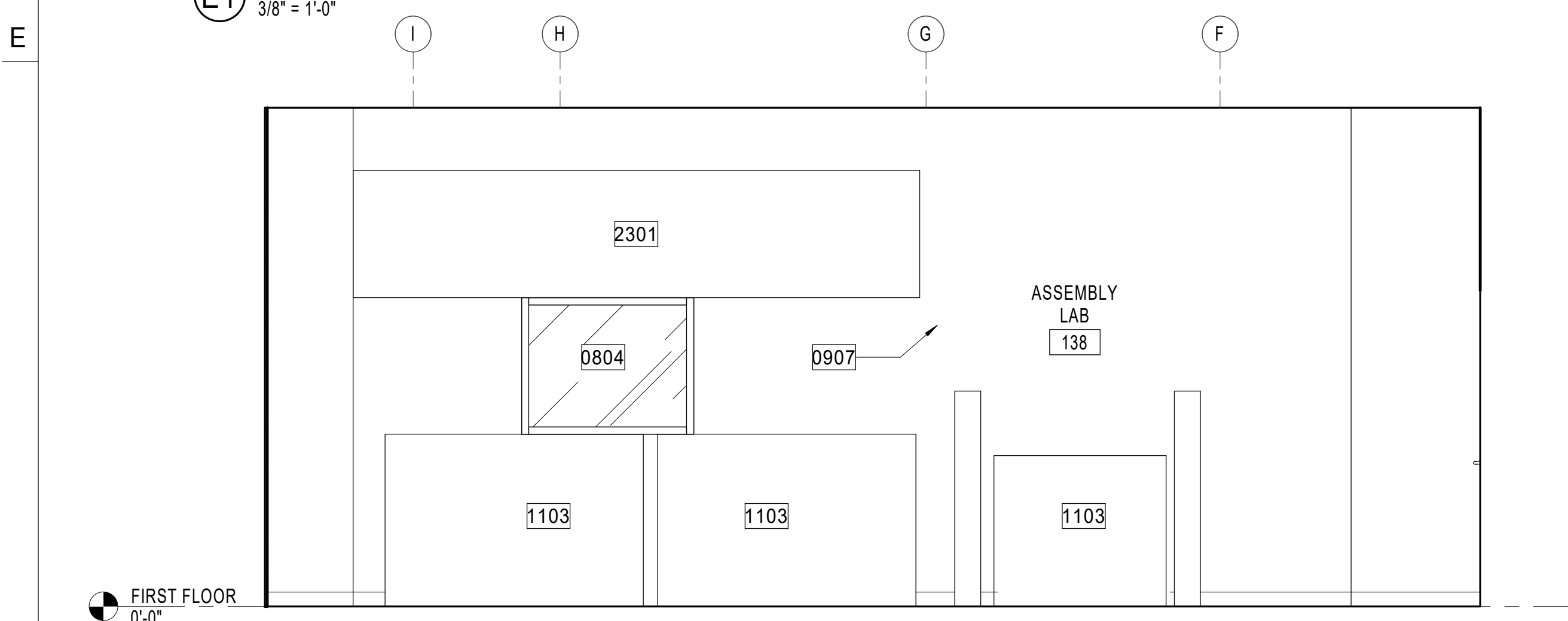
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DRAWN: Author
REVIEW: Checker

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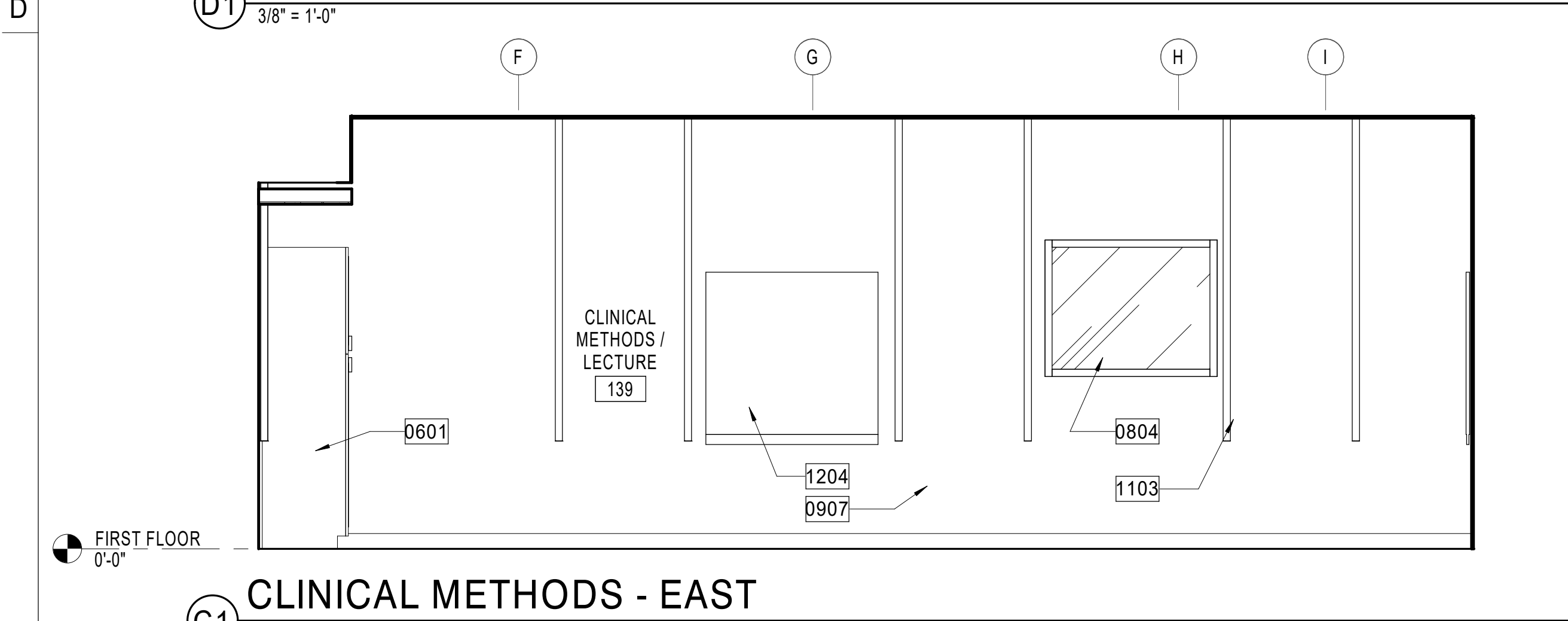
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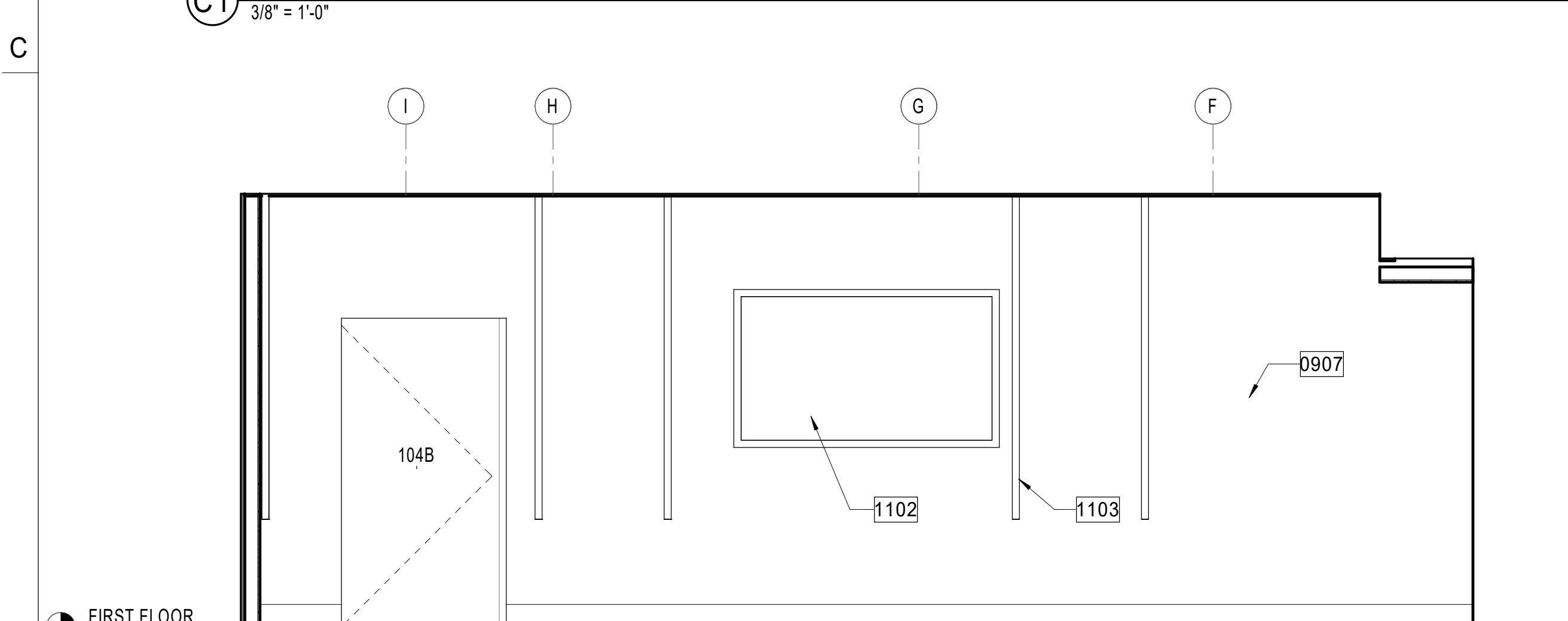
E1 ASSEMBLY LAB - EAST
3/8" = 1'-0"



D1 ASSEMBLY LAB - WEST
3/8" = 1'-0"

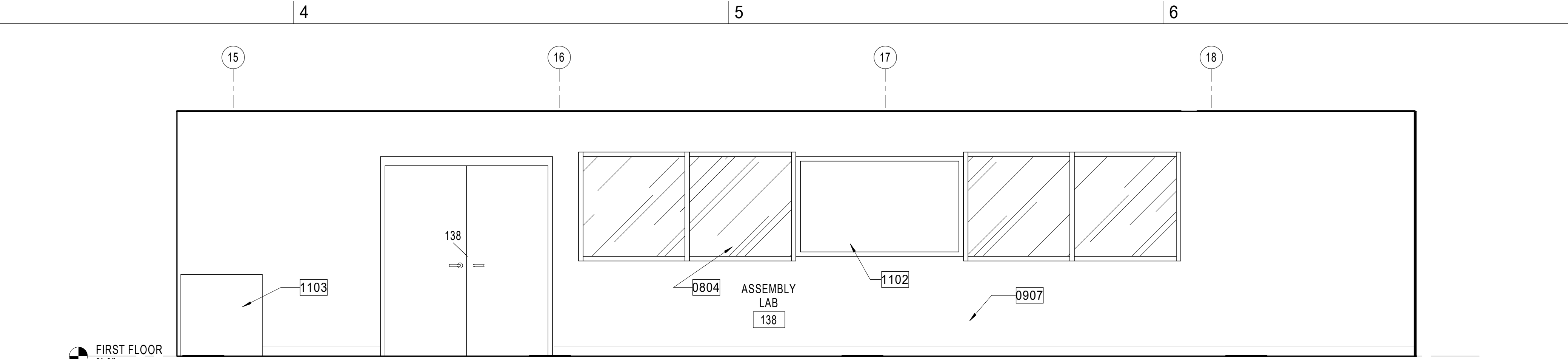


C1 CLINICAL METHODS - EAST
3/8" = 1'-0"

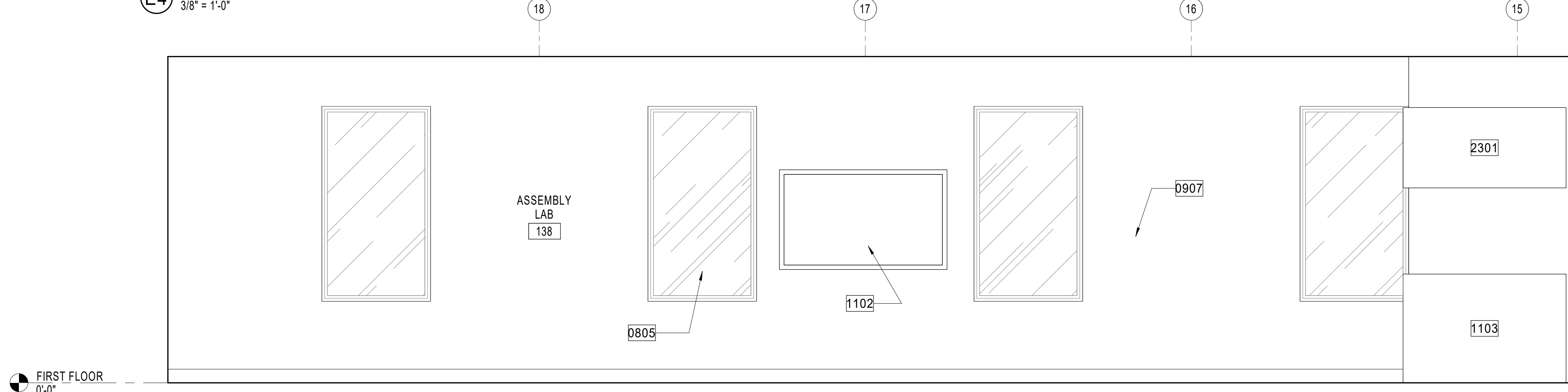


B1 CLINICAL METHODS - WEST
3/8" = 1'-0"

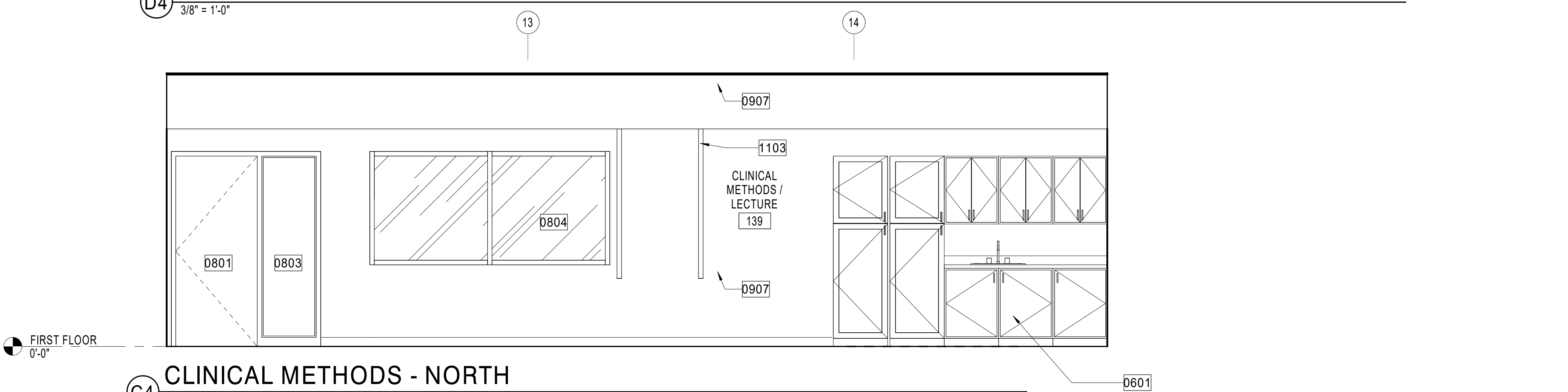
GENERAL NOTES



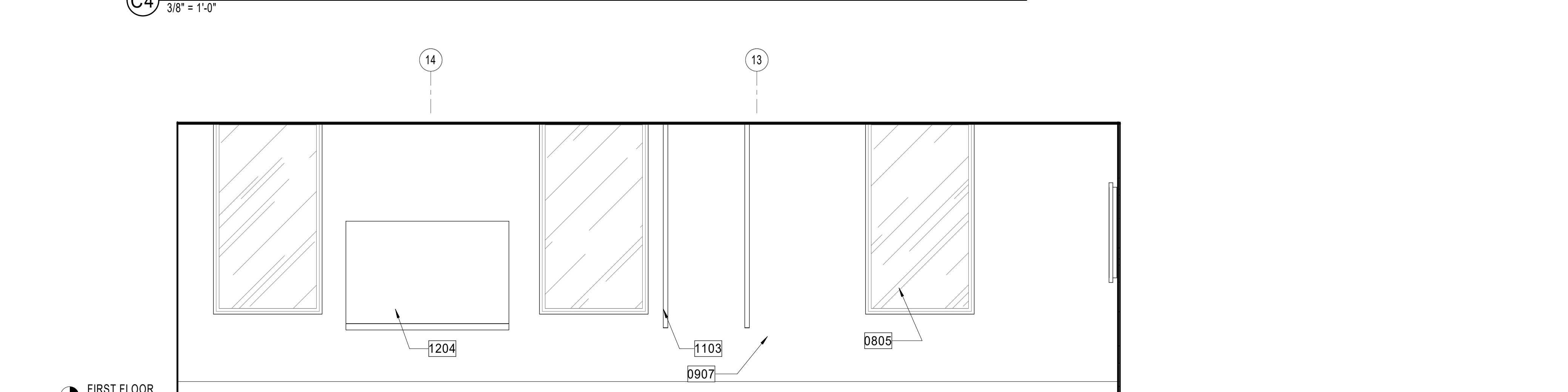
E4 ASSEMBLY LAB - NORTH
3/8" = 1'-0"



D4 ASSEMBLY LAB - SOUTH
3/8" = 1'-0"



C4 CLINICAL METHODS - NORTH
3/8" = 1'-0"



B4 CLINICAL METHODS - SOUTH
3/8" = 1'-0"

# KEY NOTES	
0601	BUILT-IN CASEWORK
0801	ALUMINUM STOREFRONT SYSTEM
0803	INTERIOR SIDELITE GLAZING
0804	INTERIOR HOLLOW METAL WINDOW
0805	EXISTING EXTERIOR WINDOW TO REMAIN, PAINT EXISTING WOOD TRIM
0907	GYPSUM BOARD, PAINTED
1102	WALL MOUNTED T.V., OFCI.
1103	EQUIPMENT, NIC
1204	DRY ERASE BOARD
2201	WALL MOUNTED SINK
2301	EXHAUST HOOD, SEE MECHANICAL DRAWINGS

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INTERIOR ELEVATIONS

AE411

DESIGN: Designer
DRAWN: Author
REVIEW: Checker

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LEGEND

GENERAL

	DEMOLITION NOTE IDENTIFICATION
	CONSTRUCTION NOTE IDENTIFICATION
	INDICATES EXISTING ITEM
	INDICATES NEW ITEM
	INDICATES ITEM TO BE REMOVED
	REMOVE TO THIS POINT
	CONNECT NEW TO EXISTING
	ROOM NUMBER IDENTIFICATION
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ALUM	ALUMINUM
ARCH	ARCHITECTURAL
DIA	DIAMETER
DWG	DRAWING
EX	EXISTING
EXR	EXISTING TO REMAIN
GA	GAUGE
GALV	GALVANIZED
MISC	MISCELLANEOUS
NIC	NOT IN CONTRACT
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
F10/6 (CFM)	EXHAUST GRILLE DESIGNATION WITH CFM INDICATED
A6 (CFM)	CEILING DIFFUSER DESIGNATION WITH CFM INDICATED
G20/20	RETURN GRILLE DESIGNATION

DUCTWORK

	SUPPLY DUCT TURNING UP (ROUND OR RECTANGULAR)
	SUPPLY DUCT TURNING DOWN (ROUND OR RECTANGULAR)
	SUPPLY DUCT TURNING UP (OVAL)
	SUPPLY DUCT TURNING DOWN (OVAL)
	RETURN DUCT TURNING UP
	RETURN DUCT TURNING DOWN
	EXHAUST DUCT TURNING UP
	EXHAUST DUCT TURNING DOWN
	CEILING RETURN, EXHAUST OR TRANSFER REGISTER
	CEILING SUPPLY DIFFUSER
	MITERED ELBOW WITH TURNING VANES
	SQUARE OR RECTANGULAR DUCTWORK
	OVAL DUCTWORK
	FLEXIBLE DUCT CONNECTION
	FLEXIBLE DUCT CONNECTION
	VERTICAL FIRE DAMPER
	VOLUME DAMPER
	MOTORIZED CONTROL DAMPER
	INDICATES ROUND DUCTWORK
	FLEXIBLE CONNECTION
	RETURN, EXHAUST OR TRANSFER AIR FLOW
	SUPPLY AIR FLOW
	DUCT SMOKE DETECTOR

VALVES AND ACCESSORIES

	AUTOMATIC AIR VENT
	AUTOMATIC FLOW CONTROL VALVE
	BACKFLOW PREVENTER
	BALL VALVE
	BOTTOM CONNECTION
	BUTTERFLY VALVE
	CAPPED PIPE
	CHECK VALVE
	CLEAN OUT
	CONCENTRIC REDUCER
	DIRECTION OF FLOW
	ECCENTRIC REDUCER
	FLANGED CONNECTION
	FLEXIBLE CONNECTION
	FLOW METER
	BALL VALVE FOR 2" & UNDER
	BUTTERFLY FOR 2.5" AND LARGER
	GLOBE VALVE
	MANUAL AIR VENT
	METERED BALANCING VALVE W/PRESSURE TAPS
	PRESSURE/TEMPERATURE TEST PLUG
	PIPE TURNING UP
	PIPE TURNING DOWN
	PITCH
	PRESSURE REDUCING VALVE
	PRESSURE RELIEF VALVE
	PRESSURE GAUGE WITH GAUGE COCK
	PUMP
	STEAM TRAP
	STRAINER
	TWO WAY CONTROL VALVE
	THREE WAY CONTROL VALVE
	THERMOMETER
	TOP CONNECTION
	UNION
	VACUUM BREAKER
	VALVE IDENTIFICATION

CONTROLS

AI	ANALOG INPUT (TO PANEL)
AO	ANALOG OUTPUT (OUT OF PANEL)
BI	BINARY INPUT (TO PANEL)
BO	BINARY OUTPUT (OUT OF PANEL)
	TWO WAY CONTROL VALVE
	THREE WAY CONTROL VALVE
	BYPASS TIMER SWITCH
C	COMMON
	CONTROL WIRING (SIGNAL PATH)
	DATA TERMINAL CABINET
	DIFFERENTIAL PRESSURE SWITCH
	DIFFERENTIAL PRESSURE SENSOR
	DUCT SMOKE DETECTOR
	FAN ON-OFF SWITCH
	FAN VARIABLE SPEED SWITCH
	FLOW MEASURING SYSTEM
	FIRESTAT
	FREEZESTAT
	HUMIDISTAT
	LOCAL TEMPERATURE CONTROL PANEL
	LOW LIMIT TEMPERATURE SENSOR
	MOTOR
	MOTORIZED CONTROL DAMPER
	MOTOR STARTER
NC	NORMALLY CLOSED
NO	NORMALLY OPENED
EP	POWER WIRING
	SENSOR
	STATIC PRESSURE SENSOR
	STATIC TOTALIZER STATION
	SWITCH
	ZONE TEMPERATURE SENSOR
	TEMPERATURE TRANSMITTER
	THERMOSTAT (C=COOLING, H=HEATING, H,C=HEATING AND COOLING)
	CURRENT SENSING RELAY
	NORMALLY OPEN CONTROLS
	NORMALLY CLOSED CONTROLS

PIPING

	CHILLED WATER SUPPLY
	CHILLED WATER RETURN
	DIRECTION OF FLOW
	CONDENSATE DRAIN LINE
	NATURAL GAS PIPING
	HOT WATER SUPPLY
	HOT WATER RETURN
	LOW PRESSURE CONDENSATE
	LOW PRESSURE STEAM
	MEDIUM PRESSURE CONDENSATE
	MEDIUM PRESSURE STEAM
	PUMPED CONDENSATE
	REFRIGERANT LIQUID
	REFRIGERANT SUCTION
	STEAM VENT LINE

GENERAL NOTES

1. GENERAL NOTES ON THIS DRAWING ARE APPLICABLE TO EACH MECHANICAL DRAWING OF THIS SET. NOTES SPECIFIC TO INDIVIDUAL MECHANICAL DRAWINGS WILL BE SHOWN ON THE RESPECTIVE MECHANICAL DRAWING.

2. PROVIDE A COMPLETE HVAC SYSTEM TO INCLUDE ALL LABOR, MATERIALS, TOOLS, AND EQUIPMENT FOR A COMPLETE AND FUNCTIONAL SYSTEM INCLUDING ALL NECESSARY APPURTENANCES CUSTOMARILY INCLUDED IF NOT SPECIFICALLY CALLED OUT.

3. CONFORM WITH ALL APPLICABLE LAWS, CODES, AND REGULATIONS OF MUNICIPAL, STATE AND FEDERAL AUTHORITIES.

4. CONFORM TO APPLICABLE ASHRAE, NFPA, AND SMACNA STANDARDS AND OTHER REGULATORY BODIES HAVING JURISDICTION OVER THE CLASS OF WORK.

5. MATERIALS AND EQUIPMENT SHALL HAVE STAMPS OR SEALS OF ARI, ASME, UL, AND ASTM.

6. MAKE TESTS FOR ACCEPTANCE AND APPROVAL AS REQUIRED BY CODE AND THE REQUIREMENTS OF APPLICABLE REGULATORY AGENCIES. REQUIRED TESTS SHALL BE PERFORMED IN THE PRESENCE OF THE OWNER UNLESS OTHERWISE WAIVED IN WRITING.

7. OBTAIN AND PAY FOR ALL PERMITS, LICENSES, DOCUMENTS, AND SERVICES RELATED TO INSTALLATION OF THE WORK.

8. COORDINATE WORK WITH THE OTHER TRADES IN ORDER TO RESOLVE ANY CONFLICT THAT MIGHT ARISE DUE TO THE LOCATION OF EQUIPMENT OR THE USE OF SPACE.

9. EQUIPMENT OF HIGHER ELECTRICAL CHARACTERISTICS MAY BE SUBSTITUTED PROVIDED SUCH PROPOSED EQUIPMENT IS APPROVED IN WRITING AND CONNECTING ELECTRICAL SERVICE, CIRCUIT BREAKERS AND CONDUIT SIZES ARE APPROPRIATELY MODIFIED AT NO COST TO THE OWNER.

10. RUN ALL HORIZONTAL PIPING AND DUCTWORK ABOVE CEILING UNLESS OTHERWISE NOTED.

11. CUT OPENINGS, AS REQUIRED, IN THE EXISTING CONSTRUCTION FOR THE INSTALLATION OF PIPING, DUCTWORK, AND EQUIPMENT. PATCH AND REPAIR TO MATCH THE EXISTING ADJACENT CONSTRUCTION.

12. MAKE DUCT PENETRATIONS OF ALL WALLS WITH SHEET METAL DUCTS. FLEXIBLE DUCT PENETRATIONS OF WALLS ARE NOT ACCEPTABLE.

13. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF DIFFUSERS, REGISTERS, AND GRILLES. FINISH AND COLOR TO BE SELECTED BY GOVERNMENT FROM MANUFACTURER'S STANDARD PALETTE.

14. DUCTWORK SIZES ARE INSIDE CLEAR DIMENSIONS.

15. ALL ELBOWS IN DUCTWORK SHALL BE RADIUS ELBOWS UNLESS OTHERWISE NOTED. WHERE SQUARE ELBOWS ARE SHOWN, INSTALL DOUBLE WALL TURNING VANES. RADIUS ELBOWS SHALL HAVE A MINIMUM CENTERLINE RADIUS OF CURVATURE OF 1.5 TIMES DUCT WIDTH OR DIAMETER

16. PROVIDE DYNAMIC FIRE AND SMOKE DAMPERS IN ACCORDANCE WITH THEIR U.L. LISTING AND THE REQUIREMENTS OF NFPA-90A.

17. DO NOT INSTALL EQUIPMENT, PIPING OR DUCTWORK OVER ANY ELECTRICAL EQUIPMENT OR ELECTRICAL SERVICE SPACE.

18. LAYOUT OF PIPING AND DUCTWORK IS DIAGRAMMATIC. RUN ALL EXPOSED PIPING AND DUCTWORK AS HIGH AS POSSIBLE UNLESS OTHERWISE NOTED. ALLOW FOR RISES, DROPS AND OFFSETS AS REQUIRED.

19. PROVIDE ACCESS PANELS WHERE COMPONENTS REQUIRING ACCESS ARE INSTALLED BEHIND WALLS OR ABOVE INACCESSIBLE CEILINGS. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.

20. INSTALL MECHANICAL EQUIPMENT TO FACILITATE SERVICING, MAINTENANCE, AND REPAIR OR REPLACEMENT OF EQUIPMENT COMPONENTS. CONNECT EQUIPMENT FOR EASE OF DISCONNECTING. WITH A MINIMUM OF INTERFERENCE WITH OTHER INSTALLATIONS. PIPING SHALL NOT INTERFERE WITH FILTER PULL. MAINTAIN EQUIPMENT MANUFACTURER'S RECOMMENDED MINIMUM SERVICE CLEARANCE.
21. MECHANICAL CONTRACTOR SHALL PROVIDE AUTOMATIC CONTROL DEVICES, SUCH AS TEMPERATURE SENSORS, RELAYS, PRESSURE SWITCHES WHICH ARE ASSOCIATED WITH MECHANICAL EQUIPMENT AND ASSOCIATED CONTROL WIRING FROM STARTER TO THE CONTROL DEVICE. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT AND WIRING FROM POWER SOURCE TO DISCONNECT SWITCH, FROM DISCONNECT SWITCH TO STARTER, AND FROM STARTER TO THE EQUIPMENT.

22. ALL CONTROL WIRING EXCEPT IN EQUIPMENT ROOMS SHALL BE RUN CONCEALED. WIRING IN WALLS SHALL BE IN CONDUIT. ALL WIRING SHALL BE PLENUM RATED. CONTROL WIRING IN EXPOSED AREAS SHALL BE BUNDLED AND SECURED OR RUN IN CONDUIT. NO WIRING MUST BE SURFACE MOUNTED IN FINISHED SPACES. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE.

23. LOCATE THERMOSTATS 48" ABOVE FINISHED FLOOR OR AS NOTED ON THE PLANS.

24. FOR EQUIPMENT WITH WATER OR STEAM CONNECTIONS, OR ANY COOLING EQUIPMENT, PROVIDE AUXILIARY DRAIN PANS UNDER EQUIPMENT LOCATED ABOVE CEILINGS.

25. ALL VALVES ARE FULL LINE SIZE EXCEPT CONTROL AND BALANCING VALVES. SIZE CONTROL VALVES TO OPERATE ACROSS THE FULL RANGE OF FLOW AT THE COIL SERVED.

26. FOR BALANCING 3-WAY VALVES, BALANCE BY-PASS WITH VALVE AT 50% POSITION SUCH THAT TOTAL FLOW DOES NOT EXCEED 100%.

27. PROVIDE PRESSURE/TEMPERATURE (PT) PLUGS, WITH CAPS UP AND DOWNSTREAM OF ALL EQUIPMENT. AT THE SUPPLY AND RETURN TAPS OF ALL PIPING BRANCHES AND WHERE INDICATED, PROVIDE EXTENDED PLUGS AND LABELS WHERE PIPING IS INSULATED. PROVIDE REMOVABLE INSULATION PLUG.

28. PROVIDE MANUAL AIR VENTS AT ALL HIGH POINTS AND THE ENDS OF ALL PIPING LOOPS. PROVIDE 1/2" DRAIN VALVES AT LOW POINTS IN PIPING. PROVIDE MINIMUM PITCH SUFFICIENT TO INSURE ADEQUATE VENTING AND DRAINING.

29. PROVIDE FLUSHING VALVES AND TEES AT BOTH SIDES OF ALL PIPING LOOPS. TAPS SHALL MATCH EQUIPMENT PIPING UP TO 1". FOR LARGER EQUIPMENT AND PIPE LOOPS PROVIDE 1 1/2" TAPS AND VALVES.

30. LOCATE AND SIZE 5 1/2" THICK CONCRETE HOUSEKEEPING PADS AND CURBS IN ACCORDANCE WITH ACTUAL EQUIPMENT PURCHASED. EXTEND PAD BEYOND EQUIPMENT FOR 6" IN ALL DIRECTIONS.

31. ALL EQUIPMENT REMOVED FROM THE BUILDING, DURING DEMOLITION, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE UNLESS OTHERWISE NOTED.

32. EXISTING DUCT, PIPE AND EQUIPMENT SIZES NOTED ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY AND ARE NOT WARRANTED TO BE CORRECT. FIELD VERIFY ALL EXISTING DUCT, PIPE AND EQUIPMENT SIZES AND THEIR RESPECTIVE LOCATIONS BEFORE PROCEEDING WITH ANY ASSOCIATED WORK.

33. PRIOR TO SUBMITTING A PROPOSAL THE CONTRACTOR IS STRONGLY ENCOURAGED TO VISIT THE SITE AND THOROUGHLY INSPECT ALL EXISTING CONDITIONS TO INSURE THAT THE WORK REPRESENTED ON THE DRAWINGS CAN BE INSTALLED AS INDICATED.

34. UNLESS OTHERWISE NOTED, FLEXIBLE CONNECTORS AND RIGID DUCT RUNOUTS SERVING A SINGLE GRILLE/REGISTER/DIFFUSER MUST BE THE SAME SIZE AS THE GRILLE/REGISTER/DIFFUSER NECK. REFER TO SCHEDULES FOR NECK SIZES.

35. REFER TO ELECTRICAL DRAWINGS FOR VOLTAGE AND PHASE REQUIREMENTS FOR ALL EQUIPMENT REQUIRING AN ELECTRICAL CONNECTION.

36. ALL REFRIGERANT PIPING MUST BE SIZED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.

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REVISIONS

SHEET

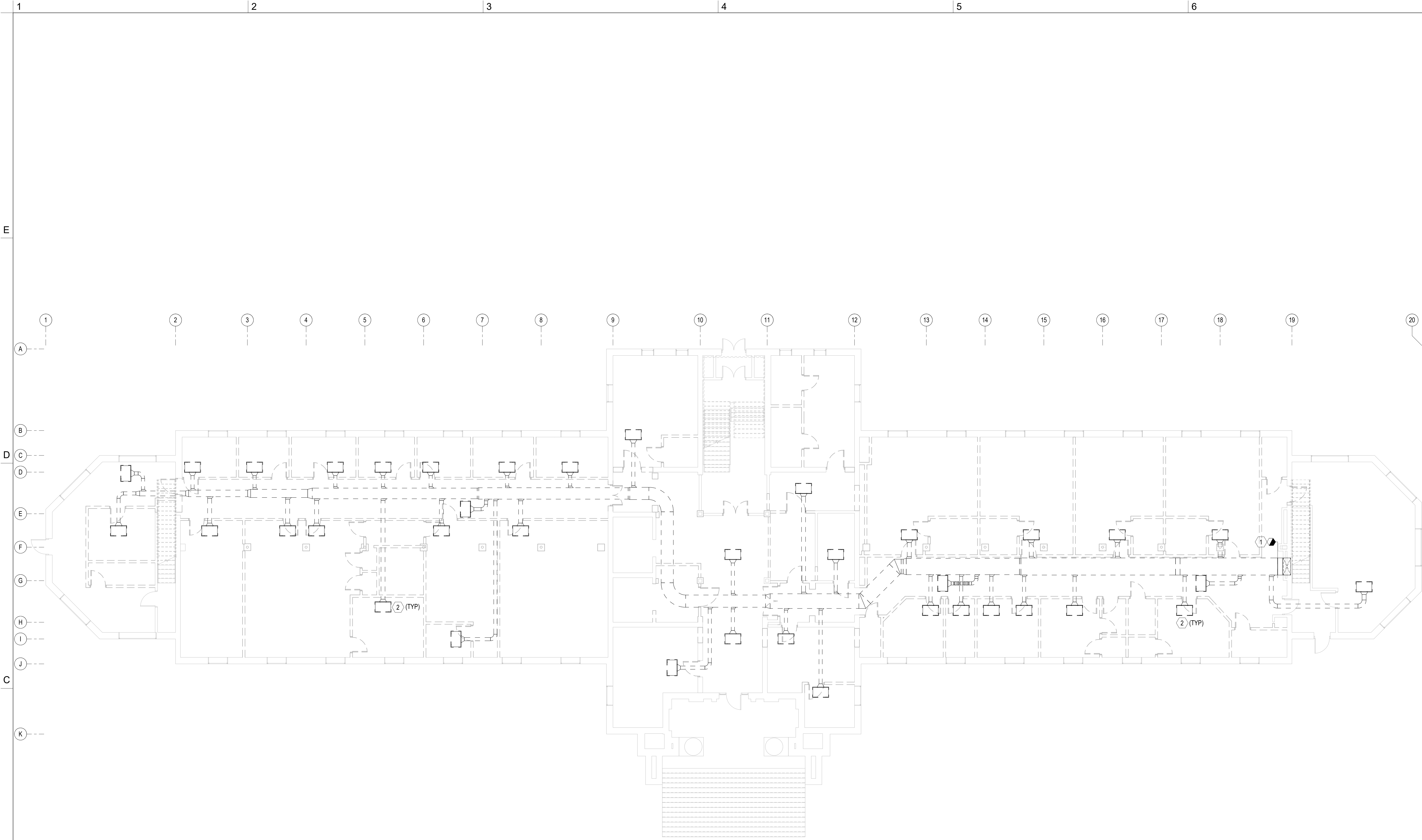
MECHANICAL LEGEND

M-001

DESIGN: WAW
DRAWN: JD
REVIEW: WAW

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

GENERAL NOTES		# DEMOLITION NOTES	
1. FOR LEGEND AND GENERAL NOTES SEE SHEET M-001.		1	REMOVE OUTDOOR AIR DUCT BACK TO LOCATION INDICATED.
		2	REMOVE CEILING MOUNTED FAN COIL UNIT.

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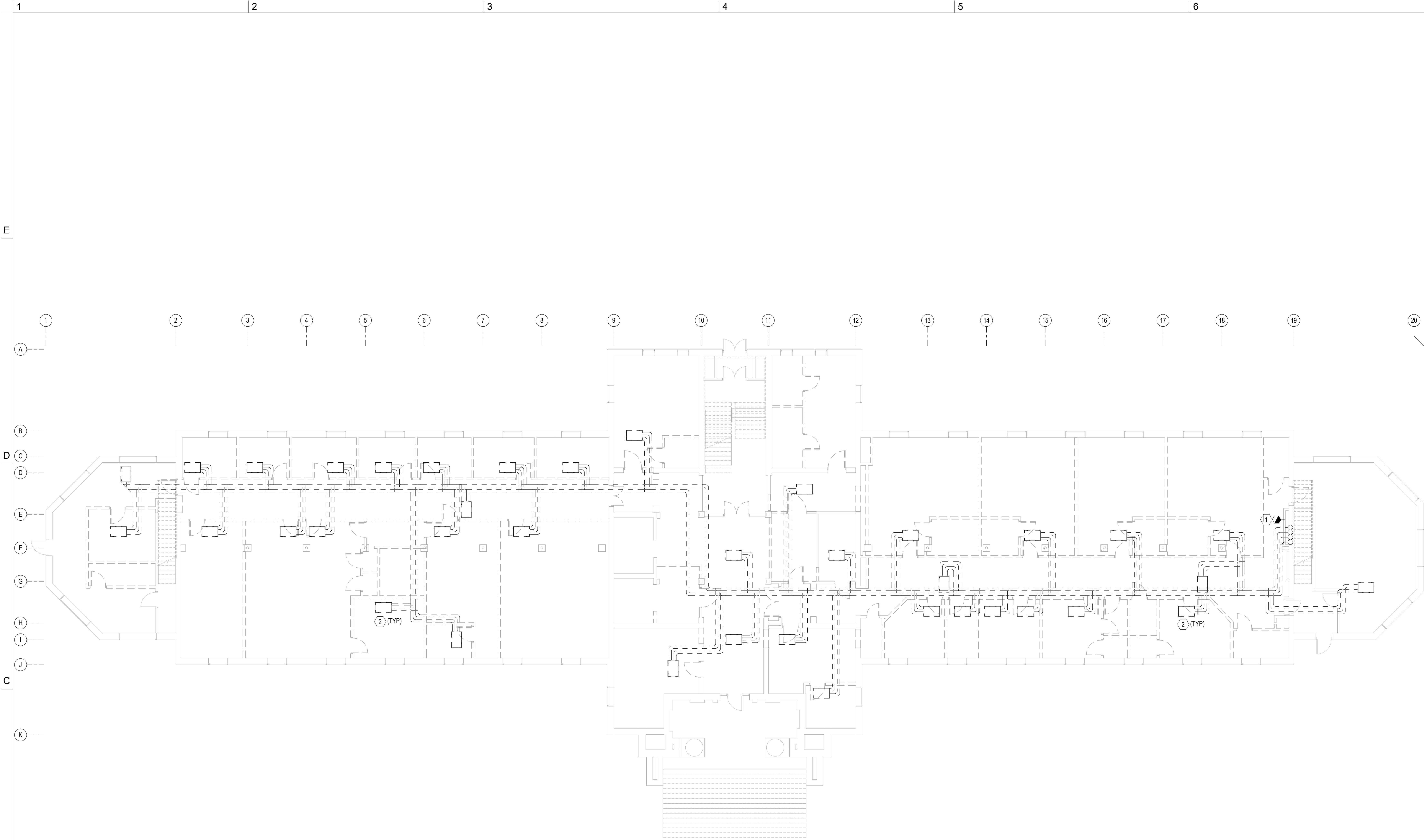
FIRST FLOOR DEMOLITION
PLAN - HVAC

MD101

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REVIEW: WAW

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

GENERAL NOTES		# DEMOLITION NOTES	
1. FOR LEGEND AND GENERAL NOTES SEE SHEET M-001.		1	REMOVE HWS/HWR AND CWS/CWR BACK TO RISER. MAKE READY FOR RECONNECTION. COORDINATE SYSTEM OUTAGES WITH ETSU AND VA. INSTALL ISOLATION VALVES AT RISER TAKEOFFS.
		2	REMOVE CEILING MOUNTED FCU, CONTROLS, SUPPORT, AND CONDENSATION DRAIN.

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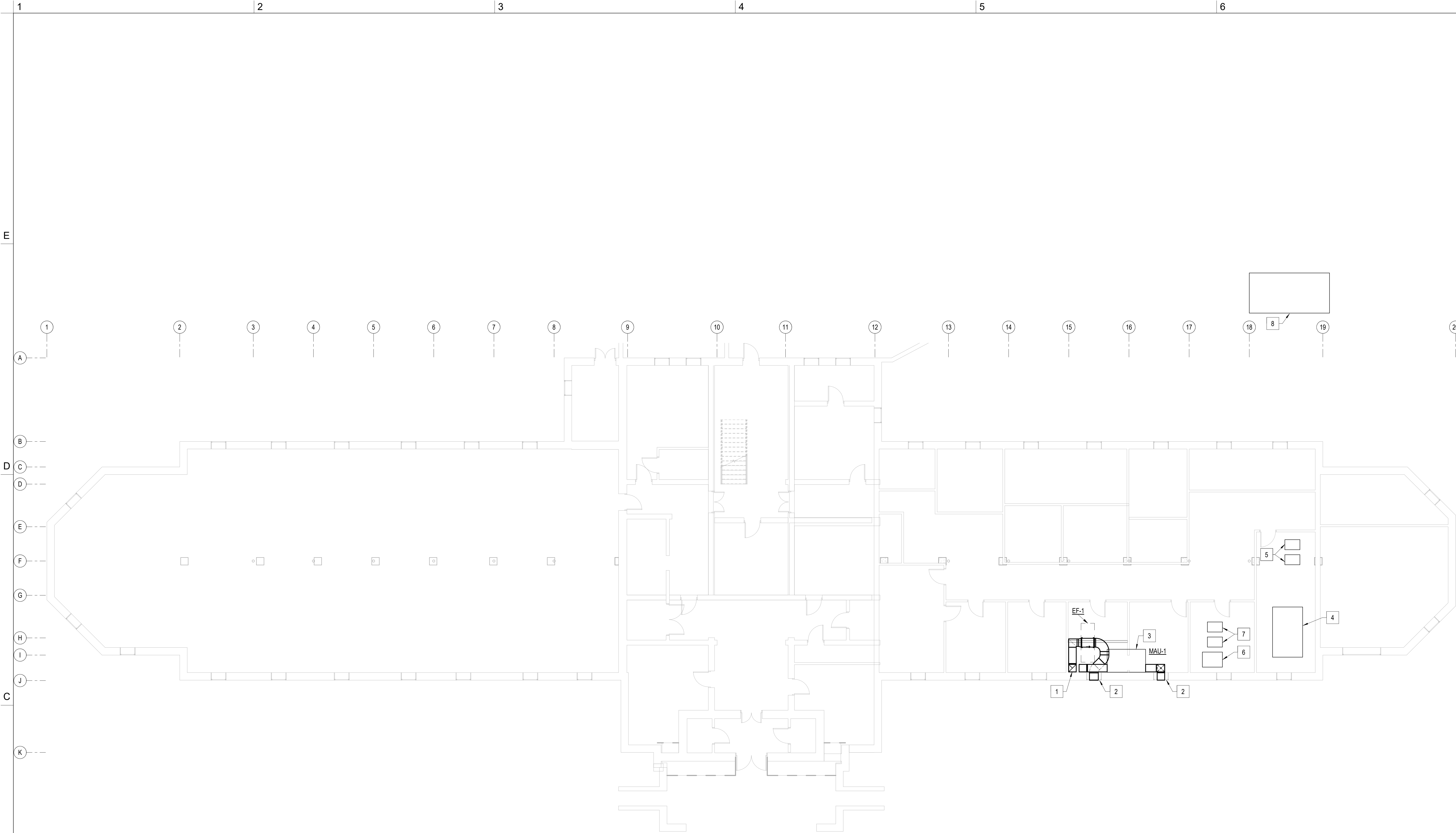
FIRST FLOOR DEMOLITION
PLAN - PIPING

MD102

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DRAWN: JD
REVIEW: WAW

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1 BASEMENT FLOOR - NEW - DUCT
1/8" = 1'-0"

GENERAL NOTES		# KEY NOTES
1. FOR LEGEND AND GENERAL NOTES SEE SHEET M-001.		1 OVEN HOOD EXHAUST DOWN FROM FIRST FLOOR. 2 REMOVE WINDOW AND INSTALL LOUVER. 3 MAKE UP AIR UNIT FOR OVEN HOOD. CONNECT TO CHILLED WATER AND HOT WATER FROM ADJACENT MECHANICAL ROOM. 4 EXISTING DOAS UNIT. 5 EXISTING CHILLED WATER PUMPS. 6 EXISTING STEAM TO WATER HEAT EXCHANGER. 7 EXISTING HOT WATER PUMPS. 8 EXISTING AIR COOLED CHILLER.

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BASEMENT FLOOR NEW WORK
PLAN - HVAC

MH100

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1 FIRST FLOOR NEW WORK PLAN - HVAC
1/8" = 1'-0"

GENERAL NOTES

1. FOR LEGEND AND GENERAL NOTES SEE SHEET M-001.

KEY NOTES

- 1 EXPOSED CEILING MOUNTED FAN COIL UNIT.
- 2 DUCTED FAN COIL UNIT.
- 3 EXPOSED DUCT WORK.
- 4 EXPOSED FLOOR MOUNTED FAN COIL UNIT.
- 5 DUCTLESS SPLIT SYSTEM.
- 6 CONNECT TO EXISTING EXHAUST RISER.
- 7 TO DIFFUSER IN SOFFIT.
- 8 TO LINEAR SLOT DIFFUSER.
- 9 PROVIDE 4" DRYER EXHAUST AND WALL CAP.
- 10 EXHAUST HOOD OVER OVENS. CONTROL VIA FACE MOUNTED SWITCH.
- 11 DOWN TO GROUND FLOOR.
- 12 SUPPLY DUCT UP FROM BASEMENT. MAKE UP AIR FOR OVEN HOOD.
- 13 O.A. DUCT TO BE EXTENDED TO FCUS.

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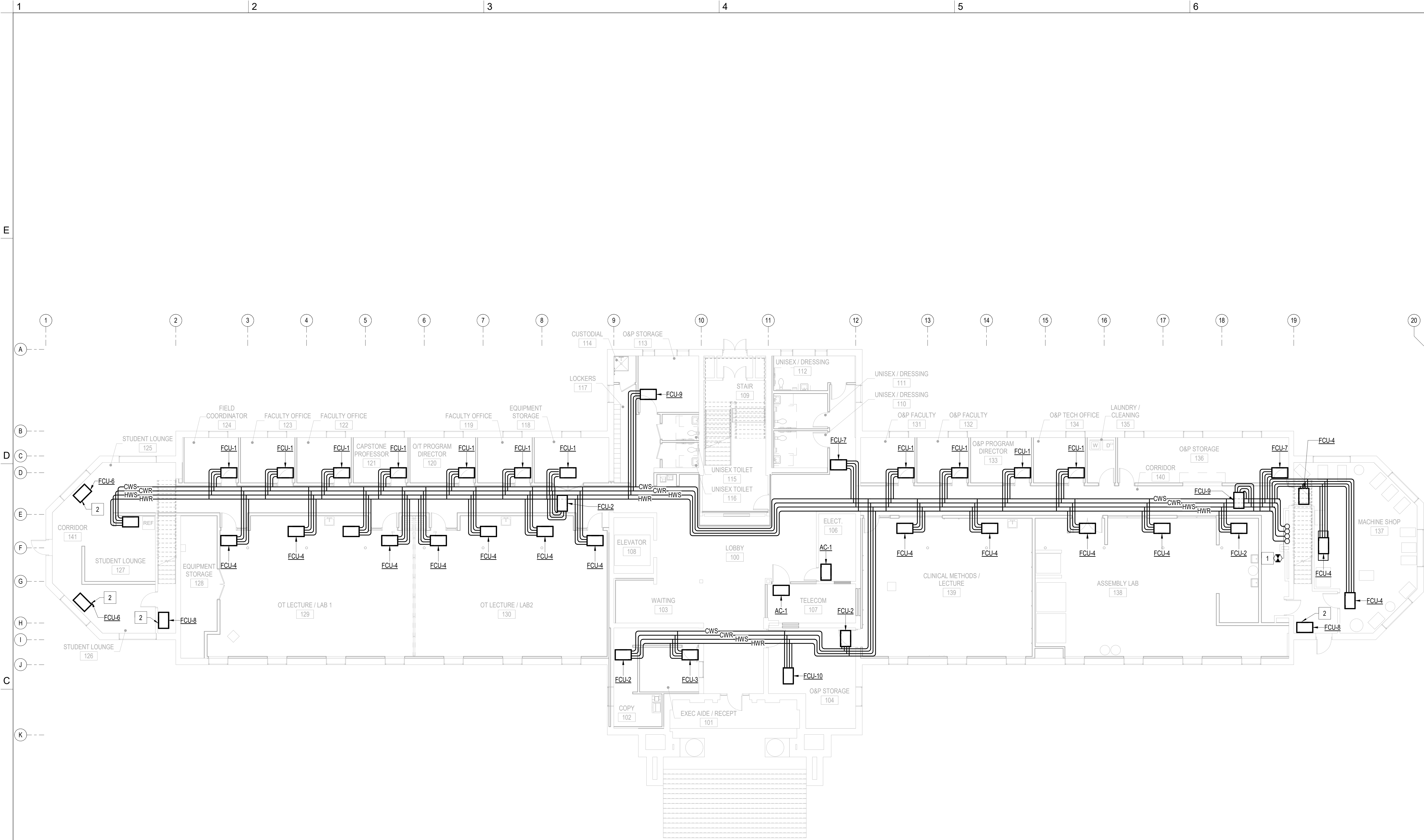
FIRST FLOOR NEW WORK PLAN
- HVAC

MH101

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

GENERAL NOTES		#	KEY NOTES
1. FOR LEGEND AND GENERAL NOTES SEE SHEET M-001.		1	CONNECT TO EXISTING CWS/CWR AND HWS/HWR PIPES.
		2	FCU FED FROM BELOW.

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- PIPING

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