

PIEDMONT COMMUNITY COLLEGE PERSON COUNTY CAMPUS

BUILDING F: LAB RENOVATIONS: 201, 204A, & 204B
1715 COLLEGE DRIVE, ROXBORO, NORTH CAROLINA
SCO ID#: 23-26709-01A



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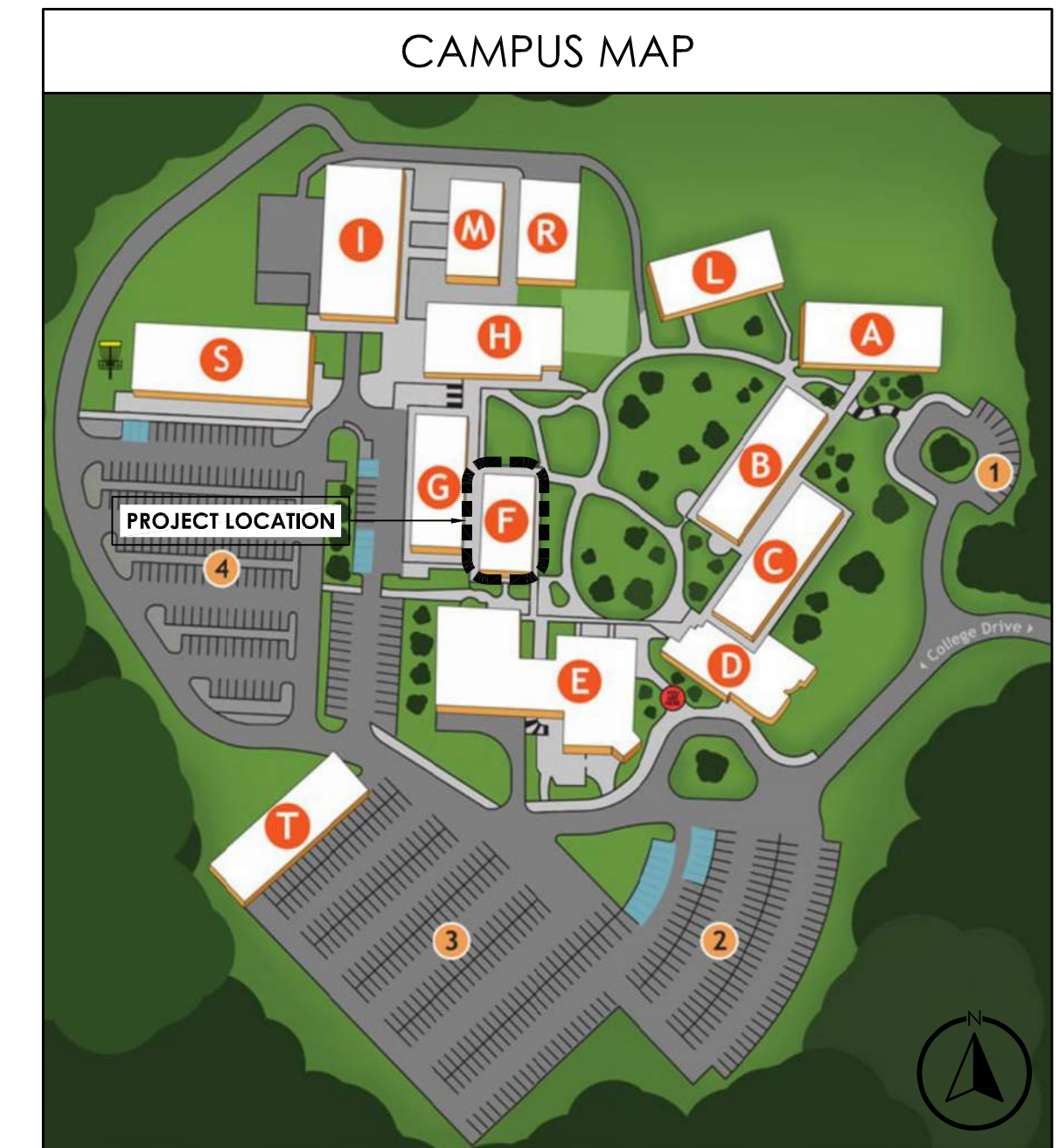
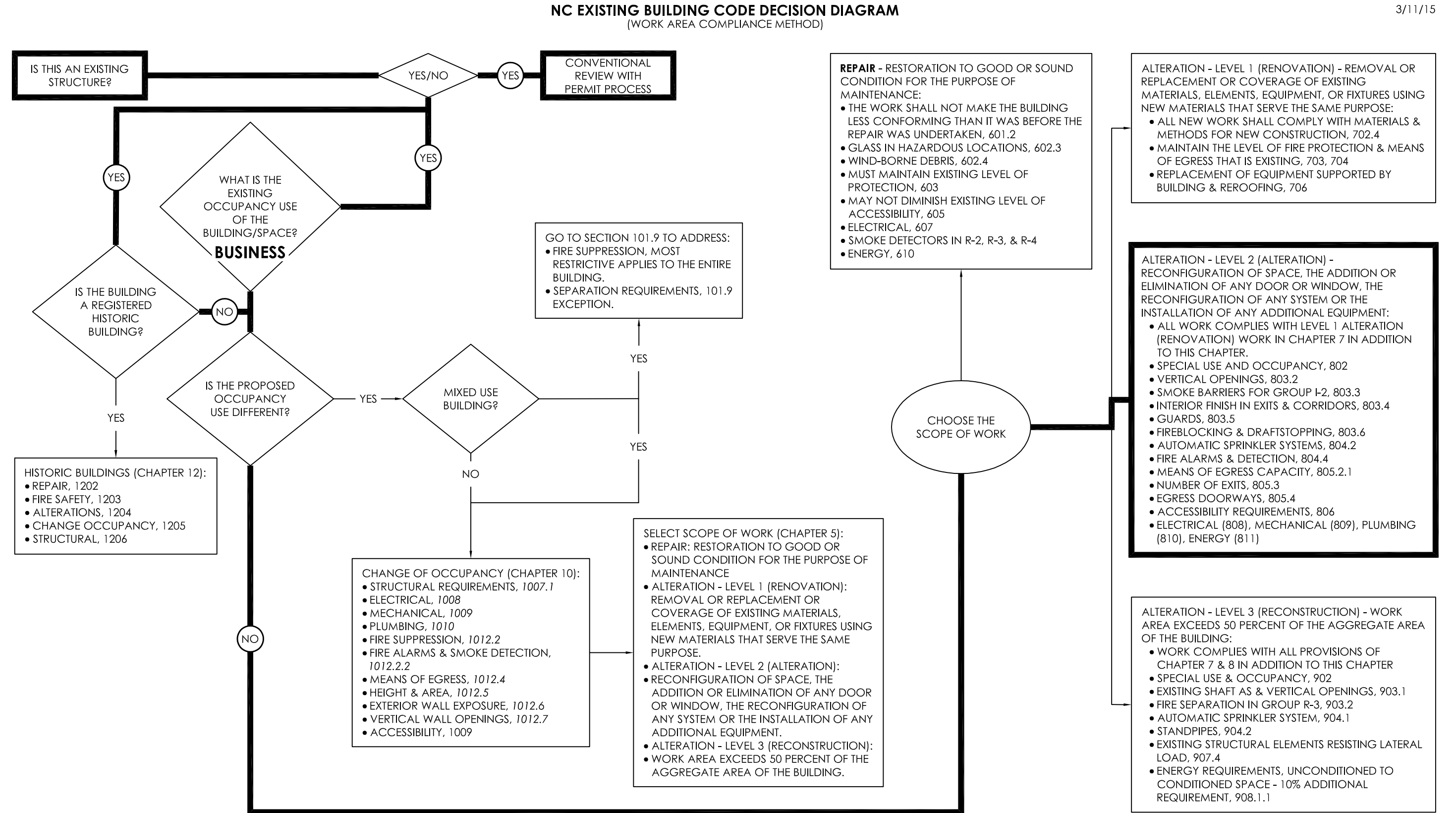


CONTACTS			
OWNER: PCC PERSON COUNTY CAMPUS 1715 COLLEGE DRIVE ROXBORO, NORTH CAROLINA T: 919.672.3910	ARCHITECT OF RECORD: MHAworks, PA 800 TAYLOR STREET, SUITE 9A-154 DURHAM, NC 27701 T: 919.682.2870	PLUMBING & MECHANICAL ENGINEER: WEST KEY CONSULTING 4008 BARRETT DRIVE, SUITE 204 RALEIGH, NORTH CAROLINA T: 919.881.8020	ELECTRICAL ENGINEER: ANGUS CLARK ENGINEERING 543 KEISLER DRIVE, SUITE 101 CARY, NORTH CAROLINA T: 919.859.2674
CONTACT: ED MORRAH ED.MORRAH@PIEDMONTCC.EDU	CONTACT: BARRY HILL BHILL@MHAWORKS.COM	CONTACT: JASON RIVENBARK JASONR@WESTKEYCONSULTING.COM	CONTACT: ANGUS CLARK ANGUS@ANGUSCLARKENGINEERING.COM

PROJECT SCOPE	
LOCATION:	1715 COLLEGE DRIVE, ROXBORO, NORTH CAROLINA
BUILDING CODE:	2018 NC BUILDING CODE
CONSTRUCTION TYPE:	IIB
STORIES:	2
TOTAL BUILDING AREA:	10,166
BUILDING OCCUPANCY:	BUSINESS
PROJECT CONSISTS OF RENOVATING 3 SCIENCE LAB CLASSROOMS.	

INDEX OF DRAWINGS			
SHEET NO.	SHEET NAME	ISSUED	REVISION: NO DATE
01 - GENERAL			
G000	SHEET INDEX, NC DECISION DIAGRAM, CAMPUS MAP	19 SEP 2024	
G100	2018 APPENDIX B BUILDING CODE SUMMARY	19 SEP 2024	
G110	LIFE SAFETY PLAN	19 SEP 2024	
02 - ARCHITECTURAL			
A001	DEMOLITION FLOOR PLAN	19 SEP 2024	
A002	DEMOLITION REFLECTED CEILING PLAN	19 SEP 2024	
A100	RENOVATION FLOOR PLAN & DOOR SCHEDULE	19 SEP 2024	
A120	RENOVATION REFLECTED CEILING PLAN	19 SEP 2024	
A400	ENLARGED FLOOR PLANS & INTERIOR ELEVATIONS	19 SEP 2024	
A401	ENLARGED FLOOR PLANS & INTERIOR ELEVATIONS	19 SEP 2024	
A402	ENLARGED FLOOR PLANS & INTERIOR ELEVATIONS	19 SEP 2024	
A403	ENLARGED FLOOR PLANS & INTERIOR ELEVATIONS	19 SEP 2024	
A404	ENLARGED FLOOR PLANS & INTERIOR ELEVATIONS	19 SEP 2024	
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A430	CASEWORK SECTIONS	19 SEP 2024	
A431	CASEWORK SECTIONS	19 SEP 2024	
03 - FIRE ALARM			
FA001	FIRE ALARM COVER SHEET	19 SEP 2024	
FA101	FIRE ALARM DEMO PLAN	19 SEP 2024	
FA201	FIRE ALARM PLAN	19 SEP 2024	
04 - PLUMBING			
P001	PLUMBING DEMO PLAN	19 SEP 2024	
P101	S, W, & V FLOOR PLAN	19 SEP 2024	
P102	WATER FLOOR PLAN	19 SEP 2024	
P103	GA'S FLOOR PLAN	19 SEP 2024	
P201	PLUMBING RISER	19 SEP 2024	
P202	PLUMBING DETAILS	19 SEP 2024	
05 - MECHANICAL			
M001	HVAC DEMO	19 SEP 2024	
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M201	HVAC DETAILS	19 SEP 2024	
06 - ELECTRICAL			
E001	ELECTRICAL COVER SHEET	19 SEP 2024	
E101	ELECTRICAL DEMO PLAN	19 SEP 2024	
E201	LIGHTING PLAN	19 SEP 2024	
E301	POWER PLAN	19 SEP 2024	
E401	RISER, SCHEDULES, & DETAILS	19 SEP 2024	

PLAN SYMBOLS		PLAN SYMBOLS - CONT.	
LOBBY ### ### # ### SF RT01 RB01 PT01	ROOM NAME ROOM NUMBER OCCUPANCY LOAD SQUARE FOOTAGE FUNCTION OF SPACE	FE	FIRE EXTINGUISHER
LOBBY ### ### SF RT01 RB01 PT01	ROOM NAME ROOM NUMBER OCCUPANCY LOAD SQUARE FOOTAGE WALL FINISH BASE FINISH FLOOR FINISH	HD	HEAT DETECTOR
LOBBY ### ### SF ACT #'-#"	ROOM NAME ROOM NUMBER OCCUPANCY LOAD CEILING HEIGHT CEILING FINISH	HSD	HORN/STROBE DEVICE
2-HEAD EMERGENCY EXIT LIGHT		HVAC	HVAC EXHAUST GRILLE
2X4 LIGHT FIXTURE (SEE ELEC.)		HVAC	HVAC RETURN GRILLE
ACTUAL EXIT DOOR OCCUPANT LOAD		HVAC	HVAC SUPPLY GRILLE
CAMERA		---	MAX. TRAVEL DISTANCE
CLEAR EXIT WIDTH (INCHES)		(M)	MICROPHONE
DEMOLITION NOTE TAG		---	NEW GWB PARTITION
DIRECTION OF DISCHARGE		(NL)	NIGHT LIGHT
DOOR TAG		(OS)	OCCUPANCY SENSOR
EXISTING CMU WALL		(P)	PROJECTOR
EXISTING GWB WALL		(R)	RECESSED LIGHT FIXTURE
EXIT DOOR CAPACITY		(E#)	RENOVATION NOTE TAG (ELEVATIONS)
FIRE ALARM PULL STATION		(F#)	RENOVATION NOTE TAG (PLAN)
		(R#)	RENOVATION NOTE TAG (RCP)
		(?)	SMOKE DETECTOR
		(S)	SPEAKER
		(TS)	TRANSITION STRIP
		(W)	WIFI ROUTER
		(A)	WALL TYPE
		(W)	WIFI ROUTER



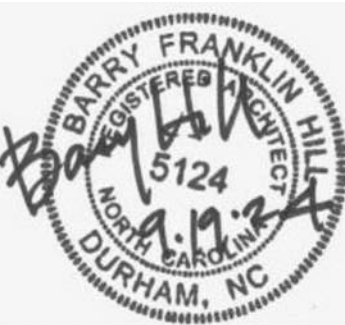
PIEDMONT COMMUNITY COLLEGE
1715 COLLEGE DRIVE
ROXBORO, NORTH CAROLINA 27573
SCO ID#: 23-26709-01A

REVISIONS:		
#	DESCRIPTION:	DATE

SHEET NAME:
SHEET INDEX, NC DECISION DIAGRAM, & CAMPUS MAP
PHASE:
BID SET

ISSUE DATE: 19 SEP 2024
PROJECT #: 23030
DRAWN BY: KNG

SHEET NUMBER
G000



**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 PLAN SHEET 1 OR 2)**

NAME OF PROJECT: **PIEDMONT COMMUNITY COLLEGE PERSON COUNTY CAMPUS - BUILDING F SCIENCE LABS' RENOVATIONS**
 ADDRESS: **1715 COLLEGE DRIVE** ZIP CODE: **27573**
 PROPOSED USE: **BUSINESS**
 OWNER OR AUTHORIZED AGENT: **ED MORRAH** PHONE #: **919.672.3910** E-MAIL: **ED.MORRAH@PIEDMONTCC.EDU**
 OWNED BY: CITY/COUNTY PRIVATE COUNTY: **PERSON COUNTY** STATE: **NORTH CAROLINA**

LEAD DESIGN PROFESSIONAL ARCHITECTURAL
 DESIGNER: **MHAworks, PA** NAME: **BARRY F. HILL, AIA** LICENSE# **5124** TELEPHONE **919.682.2870** E-MAIL **bhill@mhaworks.com**
 ARCHITECTURAL: **ANGUS CLARK ENGINEERING** NAME: **ANGUS CLARK** LICENSE# **13719** TELEPHONE **919.859.2674** E-MAIL **angus@angusclarkengineering.com**
 CIVIL: **ANGUS CLARK ENGINEERING** NAME: **ANGUS CLARK** LICENSE# **13719** TELEPHONE **919.859.2674** E-MAIL **angus@angusclarkengineering.com**
 FIRE ALARM: **WEST KEY CONSULTING** NAME: **JASON RIVENBARK** LICENSE# **31987** TELEPHONE **919.881.8020** E-MAIL **jason@westkeyconsulting.com**
 PLUMBING: **WEST KEY CONSULTING** NAME: **JASON RIVENBARK** LICENSE# **31987** TELEPHONE **919.881.8020** E-MAIL **jason@westkeyconsulting.com**
 MECHANICAL: **WEST KEY CONSULTING** NAME: **JASON RIVENBARK** LICENSE# **31987** TELEPHONE **919.881.8020** E-MAIL **jason@westkeyconsulting.com**
 SPRINKLER/STANDPIPE:
 STRUCTURAL:
 RETAINING WALLS > 4' HIGH:
 OTHER:

2018 NC BUILDING CODE: NEW CONSTRUCTION ADDITION RENOVATION NOT THE INTERIOR COMPLETIONS SHELL/CORE PHASE CONSTRUCTION - SHELL CORE
2018 NC EXISTING BUILDING CODE: PRESERVATIVE ALTERATION LEVEL I HISTORIC PROPERTY (CHECK ALL THAT APPLY) REPAIR ALTERATION LEVEL II CHANGE OF USE CHAPTER 14 ALTERATION LEVEL III

CONSTRUCTED (DATE): **1977** CURRENT OCCUPANCY(S) (CH. 3): **BUSINESS**
 RENOVATED (DATE): PROPOSED OCCUPANCY(S) (CH. 3): **BUSINESS**

RISK CATEGORY (TABLE 1604.5): CURRENT: **II** PROPOSED: **II**

BASIC BUILDING DATA:
 CONSTRUCTION TYPE: IA IB IIA IIB IIB-A IIB-B IIV IIA IIB IIV IIA IIB IIV
 SPRINKLERS: NO PARTIAL YES NFPA 13 NFPA 13R NFPA 13D
 STANDPIPES: NO YES CLASS: I II III WET DRY
 PRIMARY FIRE DISTRICT: NO YES (PRIMARY) FLOOD HAZARD AREA: NO YES
 SPECIAL INSPECTIONS REQUIRED: NO YES

GROSS BUILDING AREA TABLE:

FLOOR	EXISTING BUILDING F (SQ FT)	ROOM #	PROJECT SCOPE (SQ FT)
1ST LEVEL:	5,083	201	904
		204A	957
		204B	743
GROUND LEVEL:	5,083		
TOTAL:	10,166		2,604

ALLOWABLE AREA:
 PRIMARY OCCUPANCY:
 ASSEMBLY: A-1 A-2 A-3 A-4 A-5
 BUSINESS: B-1 B-2 B-3 B-4 B-5
 EDUCATIONAL: E-1 E-2 E-3 E-4
 FACTORY: F-1 MODERATE F-2 LOW F-3 HIGH
 HAZARDOUS: H-1 DETONATE H-2 DEFLAGRATE H-3 COMBUST H-4 HEALTH H-5 HPM
 INSTITUTIONAL: I-1 I-2 I-3 I-4
 I-1 CONDITION: 1 2
 I-2 CONDITION: 1 2
 I-3 CONDITION: 1 2 3 4 5
 MERCANTILE: M-1 M-2 M-3 M-4
 RESIDENTIAL: R-1 R-2 R-3 R-4
 STORAGE: S-1 MODERATE S-2 LOW HIGH-PILED
 UTILITY & MISC.: PARKING GARAGE OPEN ENCLOSED REPAIR GARAGE

ACCESSORY OCCUPANCY CLASSIFICATIONS:
 INCIDENTAL USES (TABLE 508):
 SPECIAL USES (CHAPTER 4 - LIST CODE SECTION):
 SPECIAL PROVISIONS (CHAPTER 5 - LIST CODE SECTION):
 MIXED OCCUPANCY: YES NO 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.
 ACTUAL AREA OF OCCUPANCY A / ALLOWABLE AREA OF OCCUPANCY A + ACTUAL AREA OF OCCUPANCY B / ALLOWABLE AREA OF OCCUPANCY B = < 1.00

STORY NUMBER	DESCRIPTION AND USE	(A) BUILDING AREA PER STORY (ACTUAL)	(B) TABLE 506.2 AREA	(C) AREA FOR FRONTAGE INCREASE ¹	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ¹
G	GROUND LEVEL - BUSINESS - CLASSROOMS	5,083	23,000	-	-
1	FIRST LEVEL - BUSINESS - CLASSROOMS	5,083	23,000	-	-

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) = _____ (R)
 D. MIN. MINIMUM WIDTH OF PUBLIC WAY = _____ (W)
 E. PERCENT OF FRONTAGE INCREASE I¹ = 100 (F/P-0.25) x W/30 = _____ (%)
¹ UNLIMITED AREA APPLICABLE UNDER CONDITIONS OF SECTION 507.
² MAXIMUM BUILDING AREA = TOTAL NUMBER OF STORIES IN THE BUILDING x D (506.2).
³ THE MAXIMUM AREA OF OPEN PARKING GARAGES MUST COMPLY WITH 406.5.4. THE MAXIMUM AREA OF AIR TRAFFIC CONTROL TOWERS MUST COMPLY WITH TABLE 412.3.1.
⁴ FRONTAGE INCREASE IS BASED ON THE UNSPRINKLERED AREA VALUE IN TABLE 506.2

ALLOWABLE HEIGHT:

	ALLOWABLE (TABLE 503)	SHOWN ON PLANS	CODE REFERENCE
BUILDING HEIGHT IN FEET (TABLE 504.3)	FEET: 55	FEET: 20	504.3
BUILDING HEIGHT IN STORES (TABLE 504.6)	STORES: 3	STORES: 2	504.4

FIRE PROTECTION REQUIREMENTS:

BUILDING ELEMENT	FIRE SEPARATION (DISTANCE (FEET))	RATING (HOURS)		DETAIL # & SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
		REQD	PROVIDED (W/ REDUCTION)				
STRUCTURAL FRAME INCLUDING COLUMNS, GIRDERS, TRUSSES		0					
BEARING WALLS							
EXTERIOR							
NORTH		0					
EAST		0					
WEST		0					
SOUTH		0					
INTERIOR		0					
NON-BEARING WALLS & PARTITIONS							
EXTERIOR WALLS							
NORTH		0					
EAST		0					
WEST		0					
SOUTH		0					
INTERIOR WALLS AND PARTITIONS		0					
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS & JOISTS							
FLOOR CEILING ASSEMBLY		0					
COLUMNS SUPPORTING FLOORS		0					
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS & JOISTS							
ROOF CEILING ASSEMBLY		0					
COLUMNS SUPPORTING ROOF		0					
SHAFT ENCLOSURES - EXIT		N/A					
SHAFT ENCLOSURES - OTHER		N/A					
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					

* INDICATED SECTION NUMBER PERMITTING REDUCTION.

PERCENTAGE OF WALL OPENING CALCULATIONS: NO CHANGE

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.6)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLAN (%)

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: **G110**
 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 (705.6)
 OCCUPANCY USE 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 (TABLES 1006.2.1 & 1006.3.2(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 (1006.3)
 NOTE ANY CODE EXCEPTIONS OR TABLE NOTES THAT MAY HAVE BEEN UTILIZED REGARDING THE ITEMS ABOVE
 ACTUAL OCCUPANT LOAD FOR EACH EXIT DOOR
 A SEPARATE SCHEMATIC PLAN INDICATING WHERE FIRE RATE FLOOR/CEILING AND/OR ROOF STRUCTURE IS PROVIDED FOR PURPOSES OF OCCUPANCY SEPARATION
 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

ACCESSIBLE DWELLING UNITS (SECTION 1107): N/A

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

ACCESSIBLE PARKING (SECTION 1106): NO CHANGE

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED			TOTAL # OF ACCESSIBLE SPACES PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 8' ACCESSIBLE	VAN SPACES WITH 13' ACCESSIBLE	VAN SPACES WITH 8' ACCESSIBLE	
TOTAL:						

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1): NOT APPLICABLE - NOTE: OCCUPANCY HAS NOT CHANGED

SPACE	EXISTING	REQUIRED	WATER CLOSETS		URINALS	LAVATORIES		SHOWERS/TUBS	DRINKING FOUNTAINS	
			MALE	FEMALE		MALE	FEMALE		REGULAR	ACCESSIBLE

SPECIAL APPROVALS: SPECIAL APPROVAL: LOCAL JURISDICTION, DEPARTMENT OF INSURANCE, OSC, DPL, DHS, ICC, ETC. (DESCRIBE BELOW)
LOCAL JURISDICTION

ENERGY SUMMARY: NO CHANGE

ENERGY REQUIREMENTS:
 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
 (# "OTHER" SPECIFY SOURCE HERE)

THERMAL ENVELOPE:
ROOF/CEILING ASSEMBLY (EACH ASSEMBLY): DESCRIPTION OF ASSEMBLY:
 U-VALUE OF TOTAL ASSEMBLY:
 R-VALUE OF TOTAL INSULATION:
 SKYLIGHT IN EACH ASSEMBLY:
 U-VALUE OF SKYLIGHT:
 TOTAL SQUARE FOOTAGE OF SKYLIGHTS IN EACH ASSEMBLY:
EXTERIOR WALLS (EACH ASSEMBLY): DESCRIPTION OF ASSEMBLY:
 U-VALUE OF TOTAL ASSEMBLY:
 R-VALUE OF INSULATION:
 OPENING (WINDOWS OR DOORS WITH GLAZING):
 U-VALUE OF ASSEMBLY:
 SOLAR HEAT GAIN COEFFICIENT:
 PROJECTION FACTOR:
 DOOR R-VALUES:
WALLS BELOW GRADE (EACH ASSEMBLY): DESCRIPTION OF ASSEMBLY:
 U-VALUE OF TOTAL ASSEMBLY:
 R-VALUE OF INSULATION:
FLOORS OVER UNCONDITIONED SPACE (EACH ASSEMBLY): DESCRIPTION OF ASSEMBLY:
 U-VALUE OF TOTAL ASSEMBLY:
 R-VALUE OF INSULATION:
FLOORS SLAB ON GRADE: DESCRIPTION OF ASSEMBLY:
 U-VALUE OF TOTAL ASSEMBLY:
 R-VALUE OF INSULATION:
 HORIZONTAL / VERTICAL REQUIREMENTS:
 SLAB HEATED? (Y/N):

STRUCTURAL DESIGN: NO CHANGE

DESIGN LOADS:
IMPORTANCE FACTORS: SNOW (LS) _____ (LB)
 SEISMIC (LE) _____
LIVE LOADS: ROOF _____ PSF
 MEZZANINE _____ PSF
 FLOOR _____ PSF
GROUND SNOW LOAD: _____ PSF
WIND LOAD: ULTIMATE WIND SPEED _____ MPH (ASCE-7)
 EXPOSURE CATEGORY _____
BASIC STRUCTURAL SYSTEM (CHECK ONE):
 BEARING WALL DUAL WITH SPECIAL MOMENT FRAME
 BUILDING FRAME DUAL WITH INTERMEDIATE R/C OR SPECIAL STEEL
 MOMENT FRAME INVERTED PENDULUM
ANALYSIS PROCEDURE: UNPLANNED EQUIVALENT LATERAL FORCE DYNAMIC
 ARCHITECTURAL MECHANICAL COMPONENTS ANCHORED? YES NO
LATERAL DESIGN CONTROL: EARTHQUAKE WIND
SOIL BEARING CAPACITIES:
 FIELD TEST (PROVIDE COPY OF TEST REPORT): _____ PSF
 PRESUMPTIVE BEARING CAPACITY: _____ PSF
 FILE SITE TYPE AND CAPACITY: _____

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: S₁ _____ %g S_{0.1} _____ %g
SITE CLASSIFICATION (ASCE 7): A B C D E F
 DATA SOURCE: FIELD TEST PRESUMPTIVE HISTORICAL DATA

MECHANICAL SUMMARY: NO CHANGE

MECHANICAL SYSTEMS, SERVICE SYSTEMS, AND EQUIPMENT
THERMAL ZONE: 4A
 WINTER DRY BULB: 16°F
 SUMMER DRY BULB: 90°F
INTERIOR DESIGN CONDITIONS:
 WINTER DRY BULB: 70°F
 SUMMER DRY BULB: 75°F
 RELATIVE HUMIDITY: 50%
BUILDING HEATING LOAD: N/A
BUILDING COOLING LOAD: N/A
MECHANICAL SPACING CONDITIONING SYSTEM
 UNITARY: _____
 DESCRIPTION OF LINE: _____
 HEATING EFFICIENCY: _____
 COOLING EFFICIENCY: _____
 SEE CATEGORY OF LINE: _____
NO CHANGE TO EXISTING AIR HANDLING SYSTEM SERVING AREA OF WORK. EFFICIENCIES & OUTPUTS FOR HEATING & COOLING ARE LISTED IN THE SCHEDULES WHERE APPLICABLE - SEE DRAWINGS.
 BOILER: _____
 SEE CATEGORY: IF OVERSEED, STATE REASON: N/A
 CHILLER: _____
 SEE CATEGORY: IF OVERSEED, STATE REASON: N/A
LIST EQUIPMENT EFFICIENCIES: EFFICIENCIES ARE LISTED ON EQUIPMENT SCHEDULES - SEE DRAWINGS.

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 FUTURE:
 NUMBER OF LAMPS IN FUTURE:
 BALLAST TYPE USED IN THE FUTURE:
 NUMBER OF BALLASTS IN FUTURE:
 TOTAL WATTAGE PER FIXTURE:
 TOTAL INTERIOR WATTAGE SPECIFIED VS. ALLOWED: 1.5 KW VS 2.4KW
 TOTAL EXTERIOR WATTAGE SPECIFIED VS. ALLOWED: N/A - EXISTING
SEE LIGHTING FIXTURE SCHEDULE
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

**PIEDMONT COMMUNITY
COLLEGE
1715 COLLEGE DRIVE
ROXBORO, NORTH CAROLINA 27573
SCO ID#: 23-26709-01A**

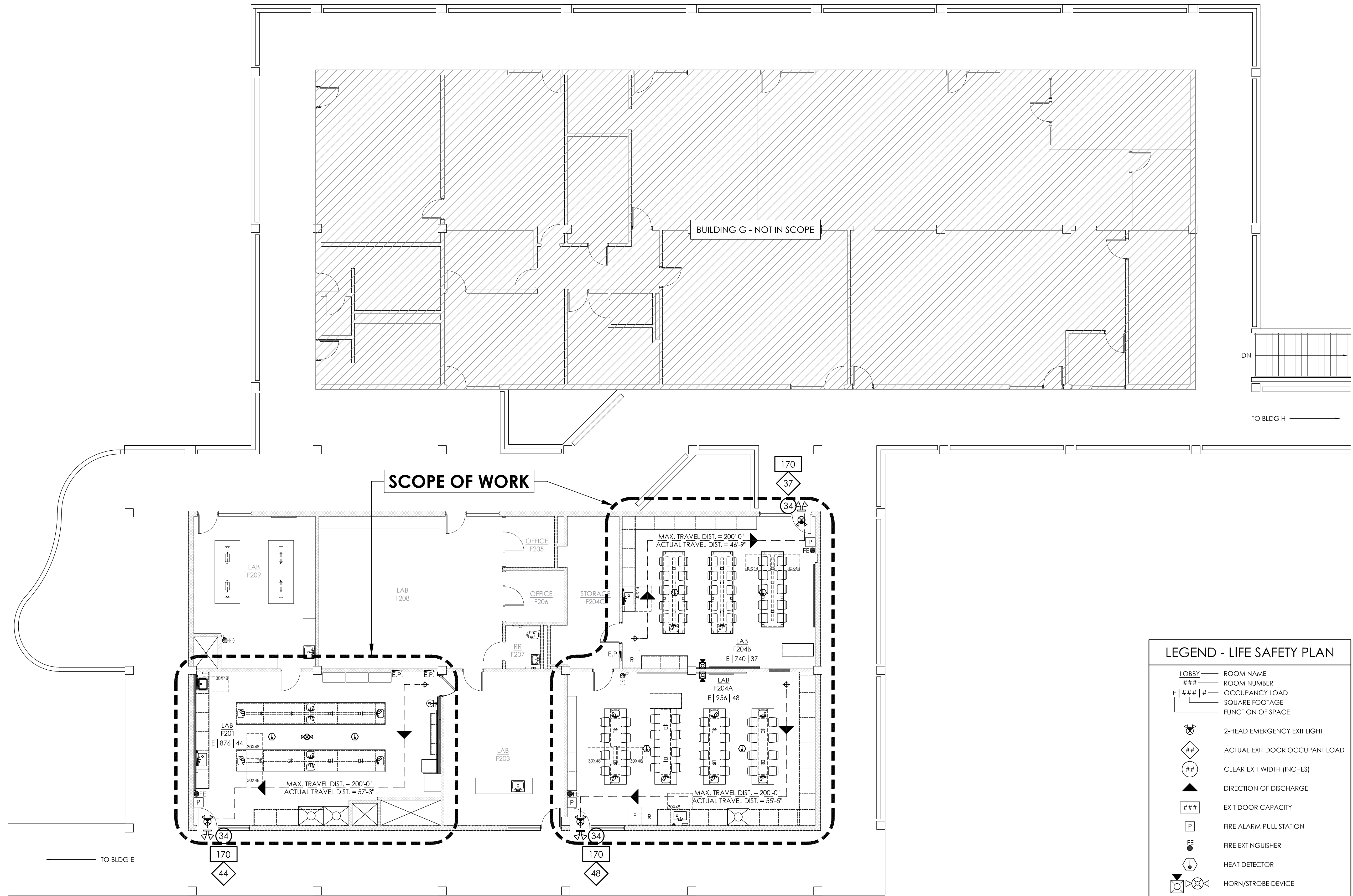
REVISIONS:

#	DESCRIPTION:	DATE

SHEET NAME:
2018 APPENDIX B - BUILDING CODE SUMMARY
 PHASE:
BID SET

ISSUE DATE: **19 SEP 2024**
 PROJECT #: **23030**
 DRAWN BY: **KNG**

SHEET NUMBER
G100



LIFE SAFETY PLAN 1
1/8" = 1'-0"

LEGEND - LIFE SAFETY PLAN

- LOBBY --- ROOM NAME
- ### --- ROOM NUMBER
- E|###| --- OCCUPANCY LOAD
- --- SQUARE FOOTAGE
- --- FUNCTION OF SPACE
- 2-HEAD EMERGENCY EXIT LIGHT
- ACTUAL EXIT DOOR OCCUPANT LOAD
- CLEAR EXIT WIDTH (INCHES)
- DIRECTION OF DISCHARGE
- EXIT DOOR CAPACITY
- FIRE ALARM PULL STATION
- FIRE EXTINGUISHER
- HEAT DETECTOR
- HORN/STROBE DEVICE
- MAX. TRAVEL DISTANCE
- NIGHT LIGHT
- REMOTE POINT

PIEDMONT COMMUNITY COLLEGE
1715 COLLEGE DRIVE
ROXBORO, NORTH CAROLINA 27573
SCO ID#: 23-26709-01A

REVISIONS:

#	DESCRIPTION:	DATE

SHEET NAME:
LIFE SAFETY PLAN

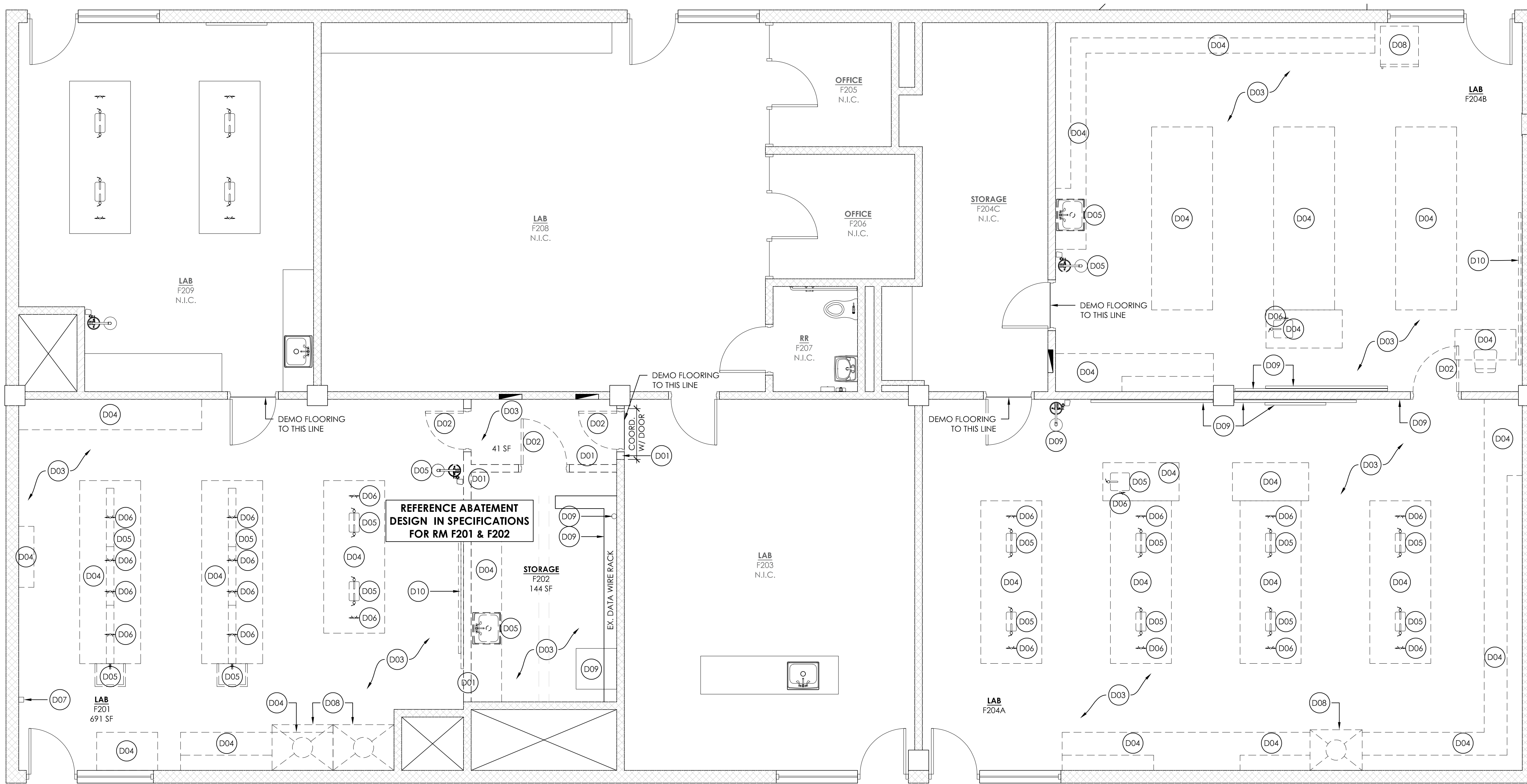
PHASE:
BID SET

ISSUE DATE: **19 SEP 2024**
PROJECT #: **23030**
DRAWN BY: **KNG**

SHEET NUMBER
G110



PIEDMONT COMMUNITY COLLEGE
1715 COLLEGE DRIVE
ROXBORO, NORTH CAROLINA 27573
SCO ID#: 23-26709-01A



LEGEND - DEMOLITION

- (C) CAMERA
- (D##) DEMOLITION NOTE TAG
- EXISTING ITEM/WALL TO BE REMOVED
- ==== EXISTING CMU WALL TO REMAIN
- ==== EXISTING GWB WALL TO REMAIN
- ⬇️ HEAT DETECTOR
- ⬇️ HORN/STROBE DEVICE
- ⊠ HVAC EXHAUST GRILLE
- ⊠ HVAC RETURN GRILLE
- ⊠ HVAC SUPPLY GRILLE
- (M) MICROPHONE
- (OS) OCCUPANCY SENSOR
- (P) PROJECTOR
- (2) SMOKE DETECTOR
- (S) SPEAKER
- (W) WIFI ROUTER

GENERAL NOTES - DEMOLITION

- DEMOLISH ALL WALL BASE IN PROJECT SCOPE AREA, U.N.O.
- PREP CONCRETE SLAB FOR NEW FLOORING AS REQUIRED.
- SEE PLUMBING, MECHANICAL, & ELECTRICAL DRAWINGS FOR DEMOLITION OF PME ITEMS.
- OWNER TO REMOVE ALL ITEMS TO BE SAVED PRIOR TO CONSTRUCTION. ANY ITEMS LEFT IN CLASSROOMS WILL BE DISPOSED OF PROPERLY, U.N.O. BY OWNER.
- EXISTING DATA WIRE RACK TO BE SUPPORTED FROM CEILING. COORDINATE WITH OWNER.
- ROOM F201: SEE SPECIFICATIONS FOR ABATEMENT DESIGN.

SHEET NOTES - DEMOLITION

- D01 DEMOLISH EXISTING RUBBER BASE & PARTITION. PATCH & REPAIR DAMAGED SURFACES AS REQUIRED FOR NEW WORK.
- D02 DEMOLISH EXISTING DOOR, HARDWARE, & FRAME.
- D03 DEMOLISH EXISTING FLOORING & WALL BASE (SEE PLAN FOR LIMITS).
- D04 DEMOLISH EXISTING CASEWORK (BASE & UPPER CABINETS) & COUNTERTOP.
- D05 DEMOLISH EXISTING PLUMBING FIXTURE (SEE PLUMBING DRAWINGS FOR MORE INFO.).
- D06 DEMOLISH GAS CONNECTION (SEE PLUMBING FOR EXACT DIRECTION).
- D07 DISPOSE OF THERMOMETER APPROPRIATELY.
- D08 SALVAGE EXISTING EQUIPMENT, APPLIANCE, ACCESSORY. STORE ITEM(S) IN A LOCKED SPACE FOR REINSTALL AFTER CONSTRUCTION.
- D09 EQUIPMENT/FIXTURE TO REMAIN IN PLACE; PROTECT DURING CONSTRUCTION. REPAIR/REPLACE IF DAMAGED DURING CONSTRUCTION.
- D10 REMOVE WHITE BOARD, SAFELY STORE, & REINSTALL IN NEW LOCATION. SEE A100 FOR MORE INFO.
- D11 DEMOLISH EXISTING LIGHT FIXTURE (SEE ELECTRICAL FOR MORE INFO.).
- D12 DEMOLISH EXISTING CEILING &/OR SOFFIT.
- D13 DEMOLISH EXISTING HVAC (SEE MECHANICAL FOR MORE INFO.).
- D14 EX. HORN/STROBE DEVICE TO REMAIN IN PLACE DURING CONSTRUCTION.
- D15 DEMOLISH HORN/STROBE DEVICE.
- D16 SALVAGE CAMERAS, MICROPHONES, PROJECTORS, WIFI ROUTERS, SPEAKERS, TELEVISIONS, OCCUPANCY SENSORS, ETC. RETURN TO OWNER.
- D17 DEMO POWER POLE.

REVISIONS:

#	DESCRIPTION:	DATE

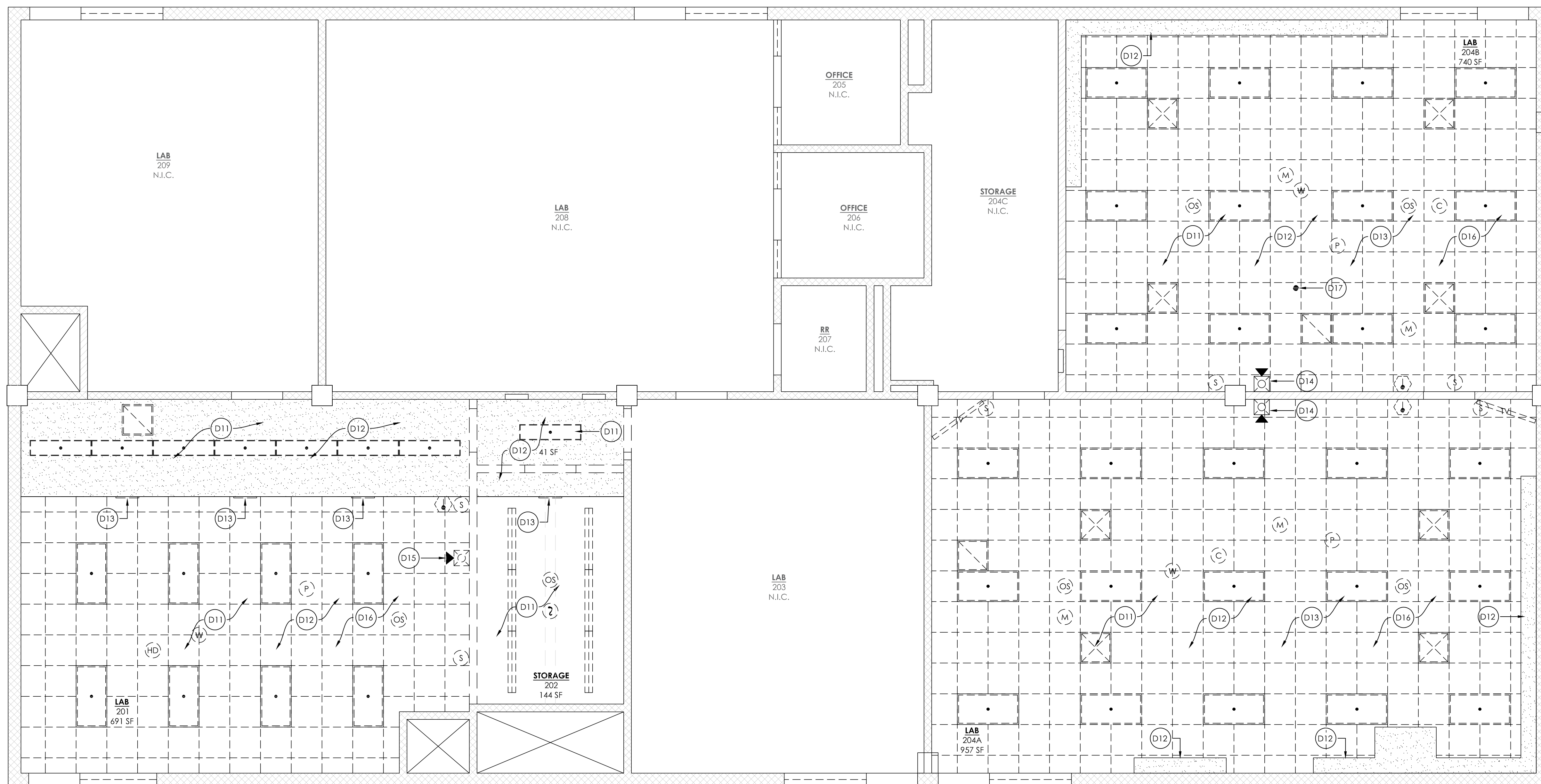
SHEET NAME:
DEMOLITION FLOOR PLAN

PHASE:
BID SET

ISSUE DATE: 19 SEP 2024
PROJECT #: 23030
DRAWN BY: KNG

SHEET NUMBER
A001

DEMOLITION FLOOR PLAN 1
1/4" = 1'-0"



LEGEND - DEMOLITION

- (C) CAMERA
- (D##) DEMOLITION NOTE TAG
- EXISTING ITEM/WALL TO BE REMOVED
- ==== EXISTING CMU WALL TO REMAIN
- ==== EXISTING GWB WALL TO REMAIN
- ⬇️ HEAT DETECTOR
- ⊠ HORN/STROBE DEVICE
- ⊠ HVAC EXHAUST GRILLE
- ⊠ HVAC RETURN GRILLE
- ⊠ HVAC SUPPLY GRILLE
- (M) MICROPHONE
- (OS) OCCUPANCY SENSOR
- (P) PROJECTOR
- (S) SMOKE DETECTOR
- (S) SPEAKER
- (W) WIFI ROUTER

GENERAL NOTES - DEMOLITION

- DEMOLISH ALL WALL BASE IN PROJECT SCOPE AREA, U.N.O.
- PREP CONCRETE SLAB FOR NEW FLOORING AS REQUIRED.
- SEE PLUMBING, MECHANICAL, & ELECTRICAL DRAWINGS FOR DEMOLITION OF PME ITEMS.
- OWNER TO REMOVE ALL ITEMS TO BE SAVED PRIOR TO CONSTRUCTION. ANY ITEMS LEFT IN CLASSROOMS WILL BE DISPOSED OF PROPERLY, U.N.O. BY OWNER.
- EXISTING DATA WIRE RACK TO BE SUPPORTED FROM CEILING. COORDINATE WITH OWNER.
- ROOM F201: SEE SPECIFICATIONS FOR ABATEMENT DESIGN.

SHEET NOTES - DEMOLITION

- D01 DEMOLISH EXISTING RUBBER BASE & PARTITION. PATCH & REPAIR DAMAGED SURFACES AS REQUIRED FOR NEW WORK.
- D02 DEMOLISH EXISTING DOOR, HARDWARE, & FRAME.
- D03 DEMOLISH EXISTING FLOORING & WALL BASE (SEE PLAN FOR LIMITS).
- D04 DEMOLISH EXISTING CASEWORK (BASE & UPPER CABINETS) & COUNTERTOP.
- D05 DEMOLISH EXISTING PLUMBING FIXTURE (SEE PLUMBING DRAWINGS FOR MORE INFO.).
- D06 DEMOLISH GAS CONNECTION (SEE PLUMBING FOR EXACT DIRECTION).
- D07 DISPOSE OF THERMOMETER APPROPRIATELY.
- D08 SALVAGE EXISTING EQUIPMENT, APPLIANCE, ACCESSORY. STORE ITEM(S) IN A LOCKED SPACE FOR REINSTALL AFTER CONSTRUCTION.
- D09 EQUIPMENT/FIXTURE TO REMAIN IN PLACE; PROTECT DURING CONSTRUCTION. REPAIR/REPLACE IF DAMAGED DURING CONSTRUCTION.
- D10 REMOVE WHITE BOARD, SAFELY STORE, & REINSTALL IN NEW LOCATION. SEE A100 FOR MORE INFO.
- D11 DEMOLISH EXISTING LIGHT FIXTURE (SEE ELECTRICAL FOR MORE INFO.).
- D12 DEMOLISH EXISTING CEILING &/OR SOFFIT.
- D13 DEMOLISH EXISTING HVAC (SEE MECHANICAL FOR MORE INFO.).
- D14 EX. HORN/STROBE DEVICE TO REMAIN IN PLACE DURING CONSTRUCTION.
- D15 DEMOLISH HORN/STROBE DEVICE.
- D16 SALVAGE CAMERAS, MICROPHONES, PROJECTORS, WIFI ROUTERS, SPEAKERS, TELEVISIONS, OCCUPANCY SENSORS, ETC. RETURN TO OWNER.
- D17 DEMO POWER POLE.

PIEDMONT COMMUNITY COLLEGE
1715 COLLEGE DRIVE
ROXBORO, NORTH CAROLINA 27573
SCO ID#: 23-26709-01A

REVISIONS:

#	DESCRIPTION:	DATE

SHEET NAME:
DEMOLITION REFLECTED CEILING PLAN
PHASE:
BID SET

ISSUE DATE: 19 SEP 2024
PROJECT #: 23030
DRAWN BY: KNG

SHEET NUMBER
A002

DEMOLITION REFLECTED CEILING PLAN 1
1/4" = 1'-0"

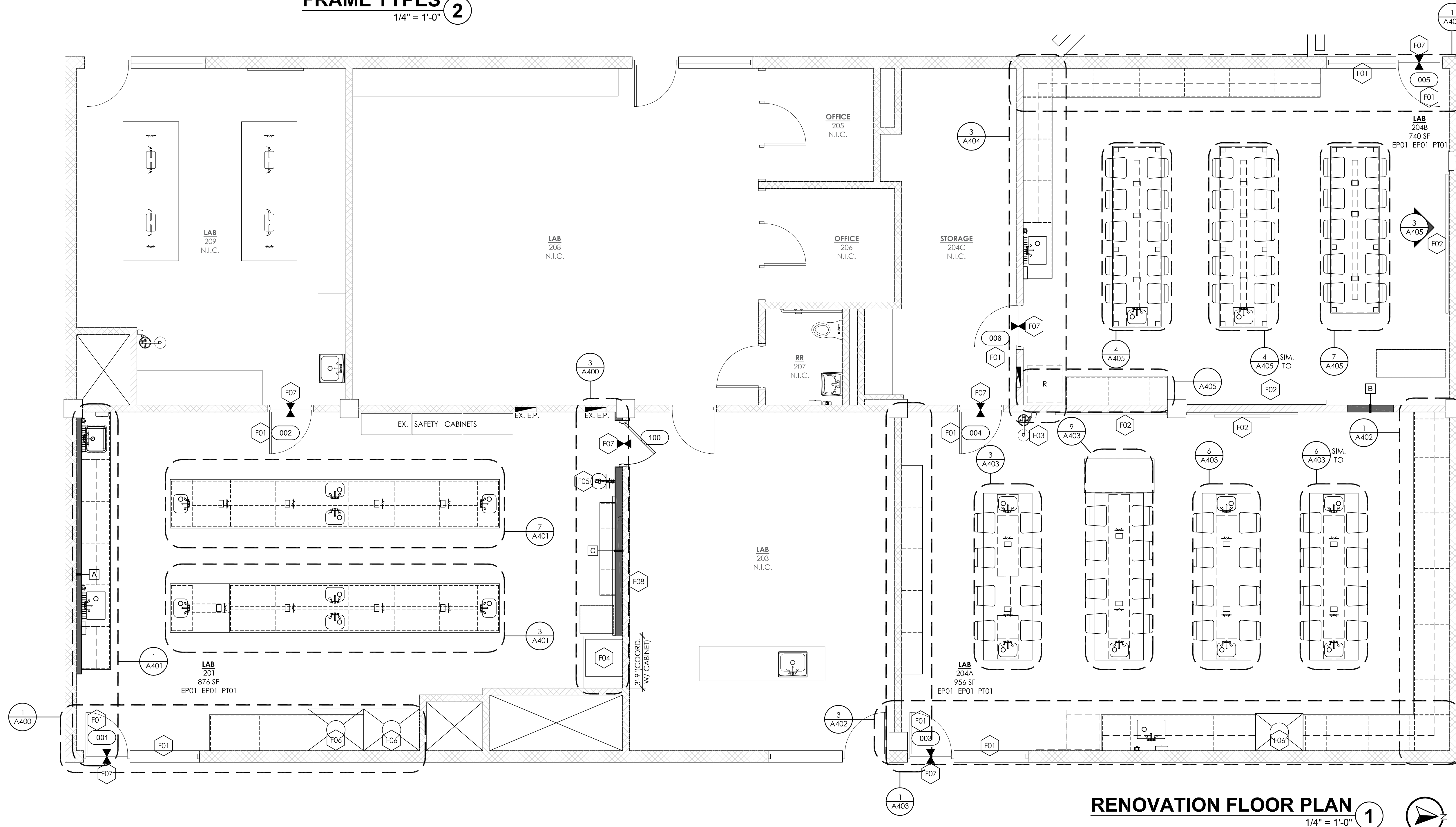
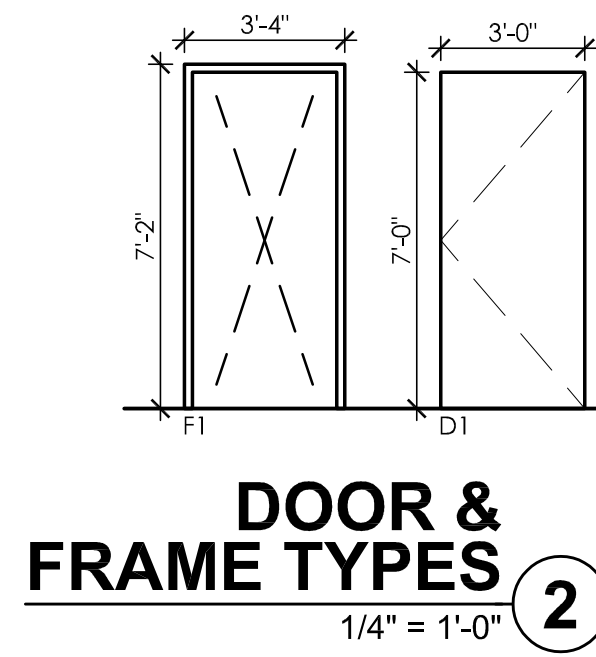
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FINISH SCHEDULE - BASIS-OF-DESIGN						
CSI DIV.	CODE	MATERIAL	MANUFACTURER	STYLE NAME / NUMBER / COLOR	LOCATION	EQUAL MANUFACTURES
DIVISION 6 - WOOD, PLASTICS, & COMPOSITES						
064023	PL01	PLASTIC LAMINATE	NEVAMAR	TRANQUILITY WA3000-VE	201, 204A, & 204B	WILSONART, FORMICA
DIVISION 9 - FINISHES						
095123	ACT01	ACOUSTICAL CEILING TILE	ARMSTRONG CEILINGS	ULTIMA 15/16" SQUARE LAY-IN # 1910 24"X24" W/ 15/16" PRELUDE SUSPENSION SYSTEM BLIZZARD WHITE	201, 204A, & 204B	USG CEILINGS, CHICAGO METALLIC CORPORATION
095123	ACT02	ACOUSTICAL CEILING TILE	ARMSTRONG CEILINGS	ULTIMA 15/16" SQUARE LAY-IN # 1943 24"X48" W/ 15/16" PRELUDE SUSPENSION SYSTEM BLIZZARD WHITE	201	USG CEILINGS, CHICAGO METALLIC CORPORATION
096500	RB01	RESILIENT BASE	TARKETT/ROPPE	BLACK	FURNITURE/CASEWORK	FLEXCO, INC., MANNINGTON
099123	PT01	PAINT (INTERIOR)	SHERWIN WILLIAMS	ALABASTER SW7008 255-C2	WALLS	BEHR, GLIDDEN
099123	PT02	PAINT (INTERIOR)	SHERWIN WILLIAMS	WHITE	CEILING/SOFFIT, INT. DOOR FRAMES, & INTERIOR OF EXTERIOR DOOR	BEHR, GLIDDEN
099123	PT03	PAINT (INTERIOR)	SHERWIN WILLIAMS	RHUMBA ORANGE SW6642 121-C6	EXTERIOR SIDE OF EXTERIOR DOOR	BEHR, GLIDDEN
099123	PT04	PAINT (EXTERIOR)	SHERWIN WILLIAMS	VOGUE GREEN SW0065	EXTERIOR SIDE EXTERIOR DOOR FRAME	BEHR, GLIDDEN
099656	EP01	EPOXY COATINGS	SHERWIN WILLIAMS	RESUFLO DECOR FLAKE BC: 1/8" FLAKE; GROUND HAZELNUT	FLOORS & BASE	C.A. REED, STONHARD

DOOR & FRAME SCHEDULE										
DOOR #	OPENING SIZE (W X H)	DOOR				FRAME			HARDWARE SET	ROOM
		DOOR TYPE	THICKNESS	MATERIAL	FINISH	FRAME ELEVATION	MATERIAL	FINISH		
100	3'-0" X 7'-0"	D1	1.75"	SWC	CLR	F1	HM	PT02	1	F201/F202
001	3'-0" X 8'-0"	EX.	-	HM	PT02/PT03	-	EX.	*PT02 & PT04	2	F201
002	3'-0" X 7'-0"	EX.	-	SWC	CLR	-	EX.	PT02	-	F201/F209
003	3'-0" X 8'-0"	EX.	-	HM	PT02/PT03	-	EX.	*PT02 & PT04	2	F204A
004	3'-0" X 7'-0"	EX.	-	SWC	CLR	-	EX.	PT02	-	F20A/F204C
005	3'-0" X 8'-0"	EX.	-	HM	PT02/PT03	-	EX.	*PT02 & PT04	2	F204B
006	3'-0" X 7'-0"	EX.	-	SWC	CLR	-	EX.	PT02	-	F204B/F204C

* SEE FINISH SCHEDULE FOR PT02 & PT04 LOCATIONS.



RENOVATION FLOOR PLAN
1/4" = 1'-0" 1

DOOR HARDWARE

HARDWARE SET #1:

- MEDIUM DUTY HINGES, PASSAGE LOCKSET W/LEVER HANDLES, SILENCERS, & FLOOR STOP.

HARDWARE SET #2:

- METAL THRESHOLD & METAL DOOR SWEEP

LEGEND - FLOOR PLAN

LOBBY ROOM NAME
ROOM NUMBER
SF SQUARE FOOTAGE
RT01 RB01 PT01 WALL FINISH
BASE FINISH
FLOOR FINISH

B###: ##X##X## WIDTH
DEPTH
HEIGHT
MODEL #

DETAIL NUMBER
A### SHEET NUMBER

DOOR TAG
F## RENOVATION NOTE TAG

TRANSITION STRIP

WALL TYPE

WALL TYPES - FLOOR PLAN

- WALL TYPE A: 3-5/8" METAL STUD @ 16" O.C. W/ 1 LAYER OF 5/8" GYPSUM WALL BOARD ON ONE SIDE, TO 4" ABOVE CEILING GRID.
- WALL TYPE B: 3-5/8" METAL STUD @ 16" O.C. W/ 1 LAYER OF 5/8" GYPSUM WALL BOARD ON BOTH SIDES IN OPENING.
- WALL TYPE C: 6" METAL STUD @ 16" O.C. W/ 1 LAYER OF 5/8" GYPSUM WALL BOARD TO 4" ABOVE CEILING.

GENERAL NOTES - FLOOR PLAN

- SWC DOOR #100 TO MATCH EXISTING DOOR (WOOD SPECIES & FINISH) IN RM F204A INTO STORAGE F204C.
- SWC DOOR #002 TO MATCH EXISTING DOOR (WOOD SPECIES & FINISH) IN RM F204A INTO STORAGE F204C.
- PREP EXISTING WALLS FOR NEW PAINT.

SHEET NOTES - FLOOR PLAN

F01 PAINT EXISTING HM DOOR FRAMES & WINDOW FRAMES, BOTH SIDES (SEE SCHEDULE).

F02 EXISTING WHITE BOARD, PROJECTOR SCREEN, SMART BOARD TO BE CLEANED.

F03 EXISTING EYEWASH STATION TO REMAIN, CLEAN UNIT.

F04 EXISTING I.T. CABINET TO REMAIN.

F05 INSTALL EXISTING SHOWER/EYEWASH STATION FROM ROOM 204B. ADD ALT: NEW DRENCH SHOWER/EYEWASH STATION. **BASIS-OF-DESIGN:** BRADLEY: COMBINATION DRENCH SHOWER & EYE/FACE WASH UNIT S19-312.

F06 PROVIDE DUCT TO VENT EXISTING FUME HOOD.

F07 PROVIDE THRESHOLD (EXTERIOR DOORS) & TRANSITION STRIPS (INTERIOR DOORS).

F08 PAINT WALL (PT01) & INSTALL NEW BASE (RB01).

PIEDMONT COMMUNITY COLLEGE
1715 COLLEGE DRIVE
ROXBORO, NORTH CAROLINA 27573
SCO ID#: 23-26709-01A

REVISIONS:

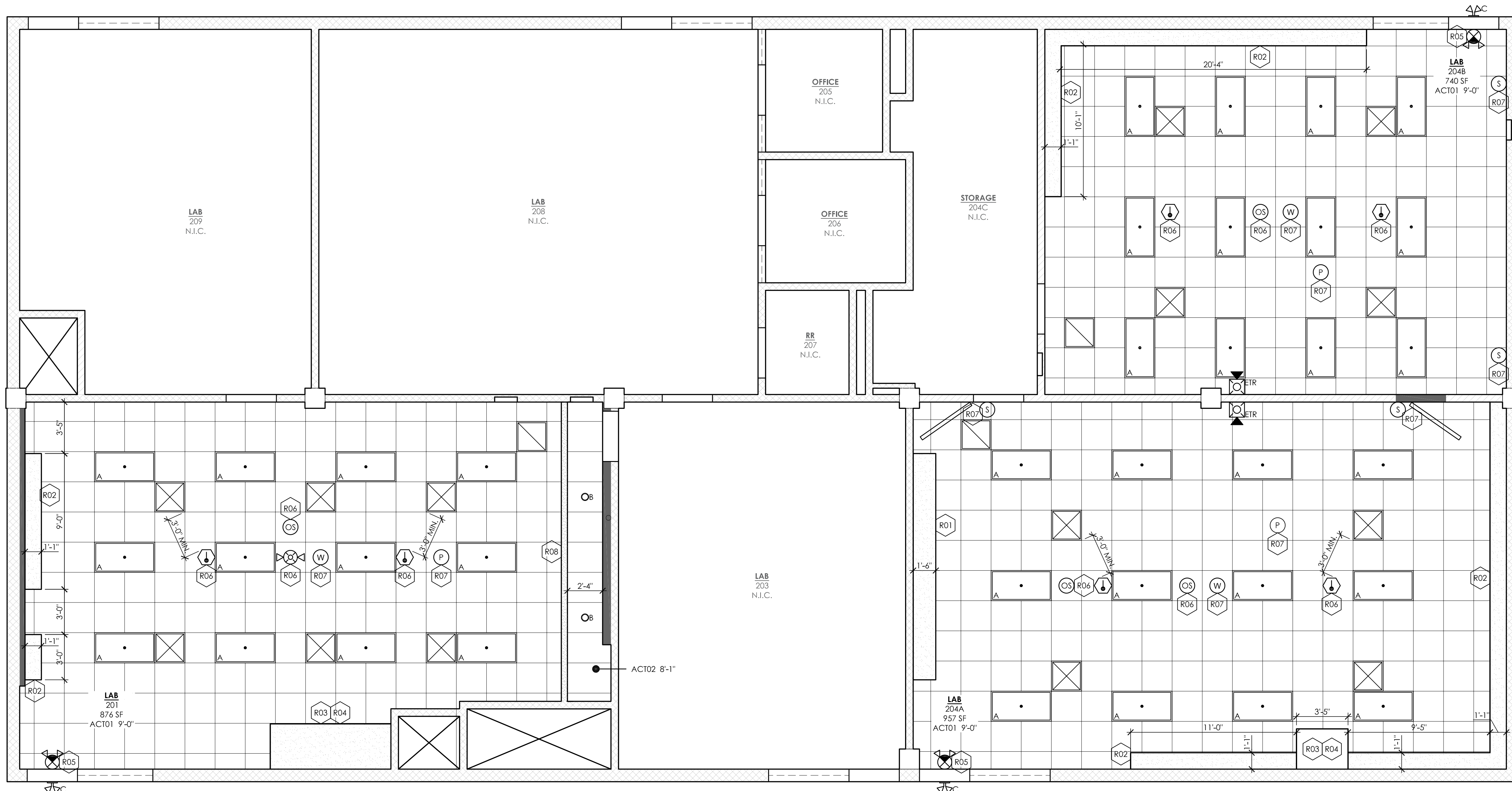
#	DESCRIPTION:	DATE

SHEET NAME:
RENOVATION FLOOR PLAN

PHASE:
BID SET

ISSUE DATE: **19 SEP 2024**
PROJECT #: **23030**
DRAWN BY: **KNG**

SHEET NUMBER
A100



LEGEND - RCP	
LOBBY	ROOM NAME
###	ROOM NUMBER
ACT #'-#"	CEILING HEIGHT
	CEILING FINISH
	2-HEAD EMERGENCY EXIT LIGHT
	HEAT DETECTOR
	HORN/STROBE DEVICE
	HVAC EXHAUST GRILLE
	HVAC RETURN GRILLE
	HVAC SUPPLY GRILLE
	MICROPHONE
	NEW 2X4 LIGHT FIXTURE (A)
	NIGHT LIGHT (C)
	OCCUPANCY SENSOR
	PROJECTOR
	RECESSED LIGHT FIXTURE (B)
	RENOVATION NOTE TAG
	SPEAKER
	WIFI ROUTER

GENERAL NOTES - RCP

- SUPPORT LIGHT FIXTURES & AIR DIFFUSERS DIRECTLY BY WIRES TO THE STRUCTURE ABOVE.
- LOCATE REGISTERS & LIGHT FIXTURES WITHIN GRID LINES.
- CENTER RECESSED FIXTURES, SMOKE DETECTORS, & SIMILAR CEILING ELEMENTS IN ACOUSTICAL CEILING UNITS, U.N.O.
- MORE INFORMATION & LOCATION OF ELECTRICAL, MECHANICAL, & PLUMBING FIXTURES INDICATED ON ARCHITECTURAL BACKGROUNDS ARE FOR LOCATIONS PURPOSES ONLY. REFER TO ENGINEERING DRAWINGS FOR FINAL TYPES & QUANTITIES.

SHEET NOTES - RCP

R01	GYPSUM WALL BOARD SOFFIT @ 7'-6" A.F.F., PT02. COORDINATE W/ CASEWORK.
R02	GYPSUM WALL BOARD SOFFIT @ 8'-0" A.F.F., PT02. COORDINATE W/ CASEWORK.
R03	GYPSUM WALL BOARD SOFFIT (PT02). COORDINATE DIMENSIONS WITH EXISTING FUME HOODS.
R04	EXISTING FUME HOOD.
R05	PROVIDE NEW 2-HEAD EMERGENCY EXIT LIGHT.
R06	PROVIDE HEAT SENSOR, HORN/STROBE DEVICE, OCCUPANCY SENSOR (SEE ELEC./FA FOR MORE INFO.)
R07	WIFI ROUTER, SPEAKERS, PROJECTOR, & TV PROVIDED & INSTALLED BY OWNER.
R08	GWB BULKHEAD 1" BELOW ACT02 (COORD. HT. W/ CASEWORK).

PIEDMONT COMMUNITY COLLEGE
1715 COLLEGE DRIVE
ROXBORO, NORTH CAROLINA 27573
SCO ID#: 23-26709-01A

REVISIONS:

#	DESCRIPTION:	DATE

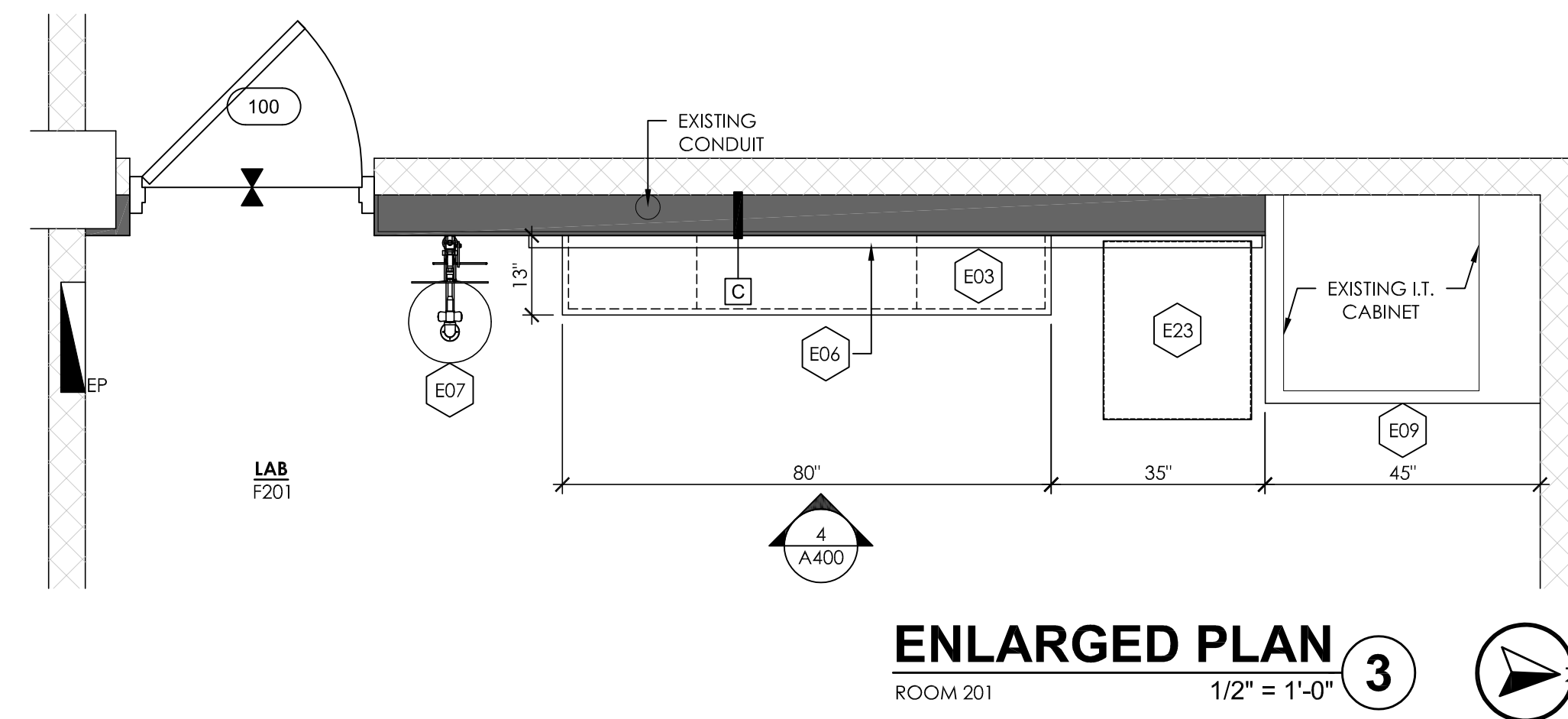
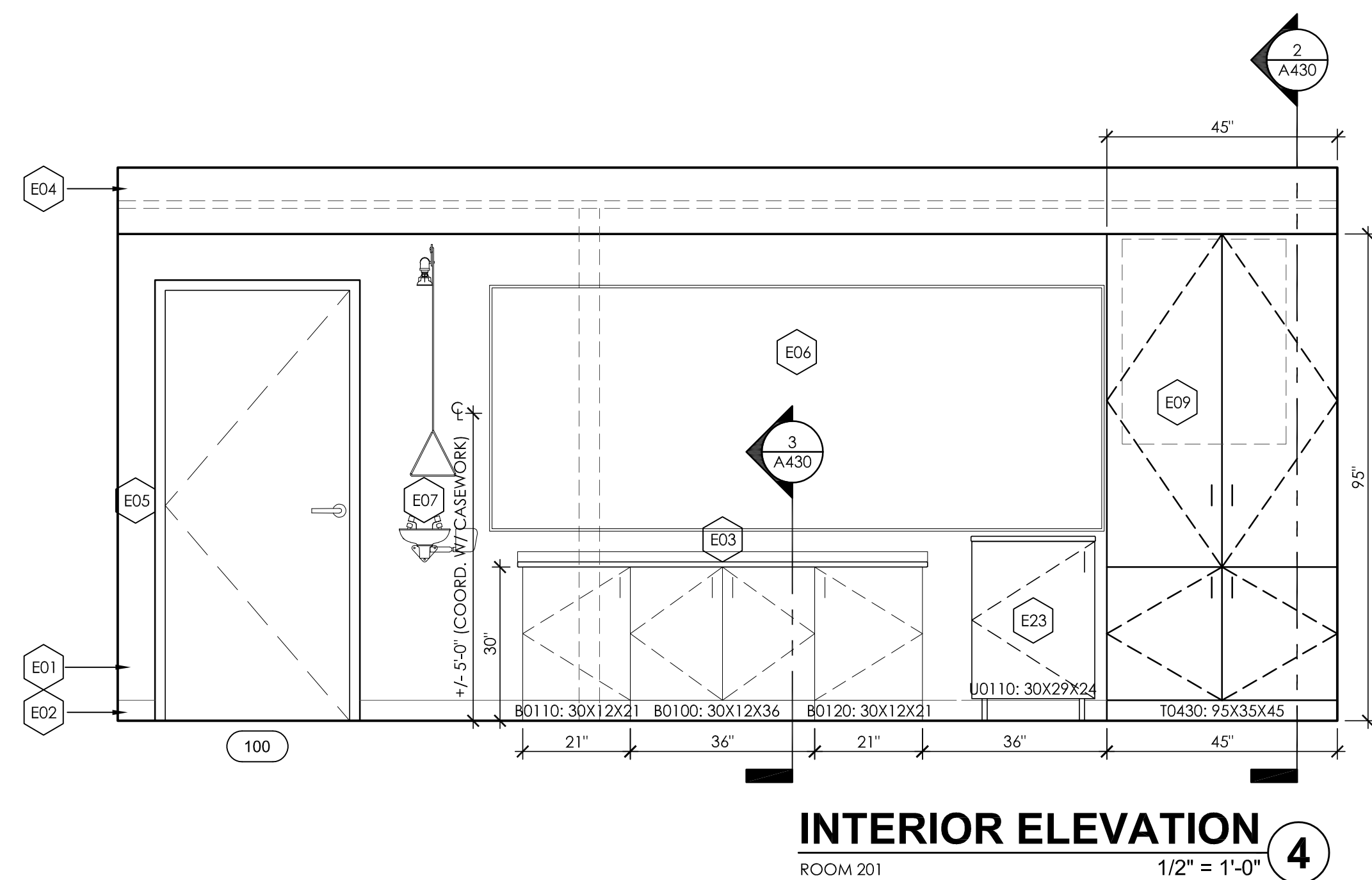
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RENOVATION REFLECTED CEILING PLAN
PHASE:
BID SET
ISSUE DATE: **19 SEP 2024**
PROJECT #: **23030**
DRAWN BY: **KNG**

SHEET NUMBER
A120

RENOVATION REFLECTED CEILING PLAN ①
1/4" = 1'-0"



PIEDMONT COMMUNITY COLLEGE
1715 COLLEGE DRIVE
ROXBORO, NORTH CAROLINA 27573
SCO ID#: 23-26709-01A



LEGEND - ELEVATIONS

B###: ###X##X## WIDTH
DEPTH
HEIGHT
MODEL #

DETAIL NUMBER
A### SHEET NUMBER
DOOR TAG
E# RENOVATION NOTE TAG
TRANSITION STRIP
WALL TYPE

GENERAL NOTES - PLANS/ELEV

- EQUAL MANUFACTURER'S FOR CASEWORK: KEWAUNNE, NYCOM, INC.
- PL01 (SEE FINISH SCHEDULE) FOR ALL CASEWORK FACES.

SHEET NOTES - PLANS & ELEV.

- E01 PT01.
- E02 EP01.
- E03 BLACK RESIN COUNTERTOP & BACKSPASH (WHERE REQUIRED).
- E04 GWB SOFFIT; PT02.
- E05 PAINT EXISTING/NEW DOOR &/OR WINDOW FRAME; PT02.
- E06 EXISTING WHITE BOARD. CLEAN AFTER INSTALL.
- E07 REUSE SHOWER/EYEWASH STATION FROM CLASSROOM 204B. PROVIDE NEW SHOWER PULL-HANDLE BE NO MORE THAN 48" A.F.F. IF UNABLE TO REUSE EXISTING PROVIDE (ADD ALTERNATE): **BASIS-OF-DESIGN: BRADLEY; COMBINATION DRENCH SHOWER & EYE/FACE WASH UNIT S19-312.**
- E08 EXISTING FUME HOOD UNIT.
- E09 I.T. CABINET. REMOVE ALL SHELVES.
- E10 RESIN SINK (CASE SYSTEMS: S5520) & FAUCET (CASE SYSTEMS: SF853).
- E11 ADA SINK (ELKAY ELUHAD211545PD) & FAUCET (CASE SYSTEMS: SF853).
- E12 SINK (CASE SYSTEMS: S5510) & FAUCET (CASE SYSTEMS: SF603).
- E13 SINK (CASE SYSTEMS: S5510) & FAUCET (CASE SYSTEMS: SF853).
- E14 GAS CHECK VALVE (CASE SYSTEMS: SF022).
- E15 POWER TOMBSTONE W/ USB.
- E16 PAPER TOWEL DISPENSER.
- E17 SOAP DISPENSER.
- E18 FIRE PULL STATION.
- E19 DRYING RACK (OWNER PROVIDED & INSTALLED).
- E20 METAL POWER RACEWAY.
- E21 FRIDGE &/OR FREEZER (OWNER PROVIDED & INSTALLED).
- E22 GAS SHUT OFF (SEE PLUMBING).
- E23 TEACHING STATION.
- E24 EXISTING FIRE EXTINGUISHER.
- E25 SPEAKER (OWNER PROVIDED & INSTALLED).
- E26 DUPLEX OUTLET & DATA OUTLET.
- E27 PAINT EXTERIOR SIDE OF EXTERIOR DOOR; PT03.
- E28 TV - OWNER PROVIDED & INSTALLED.
- E29 EXISTING GAS SHUT-OFF.

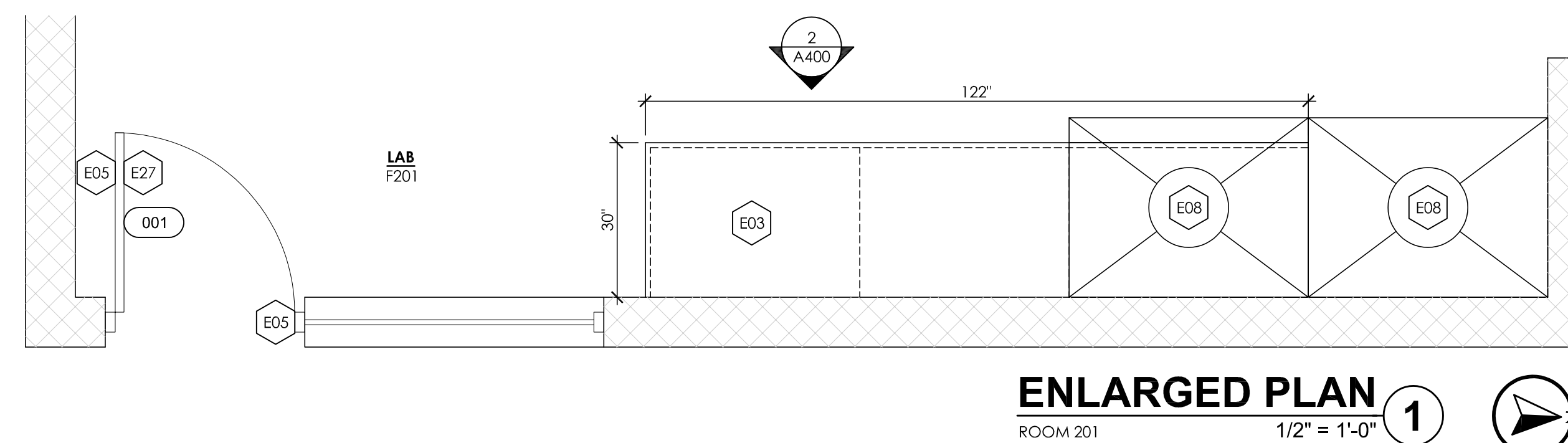
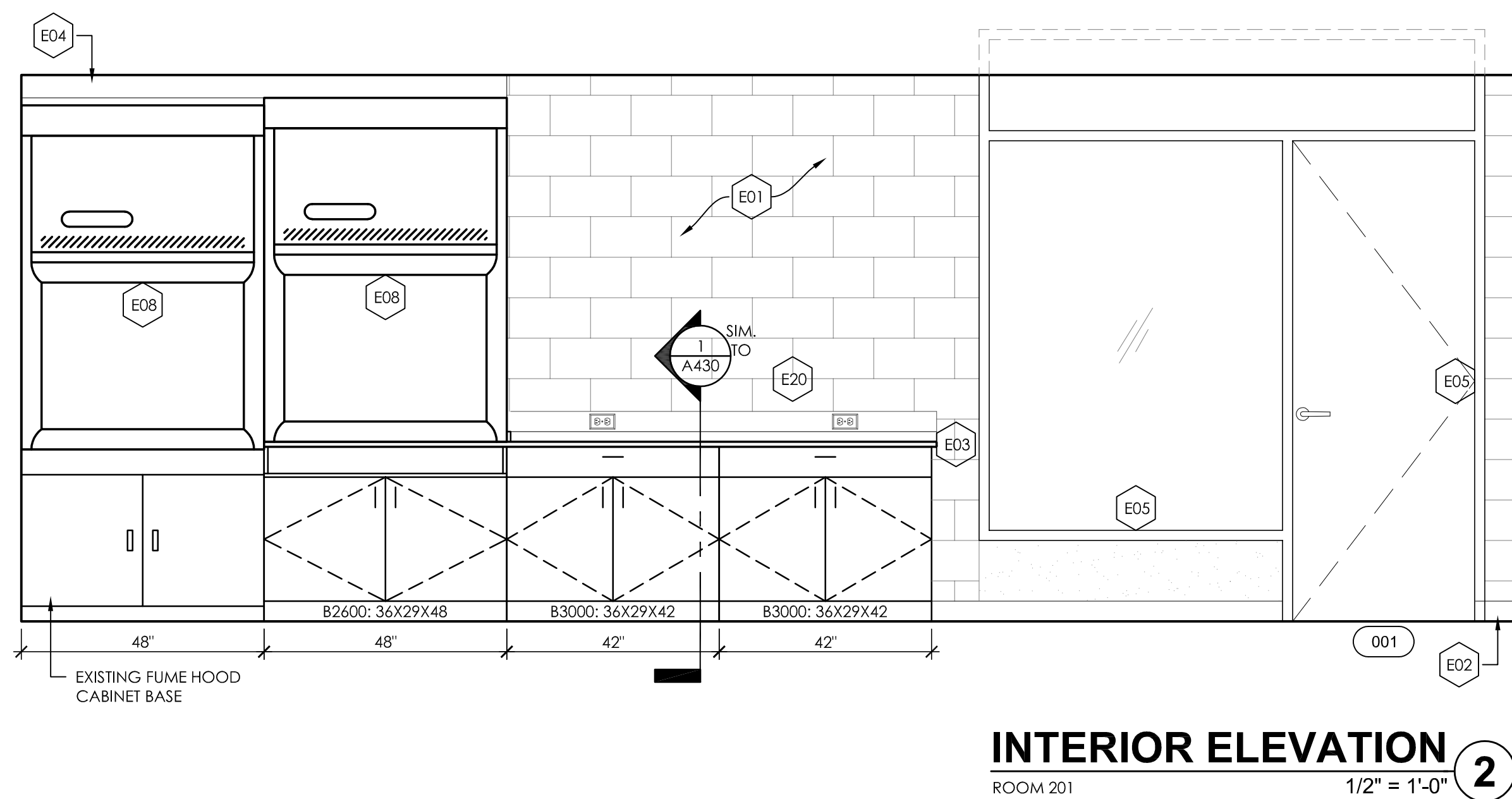
REVISIONS:

#	DESCRIPTION:	DATE

SHEET NAME:
LAB 201 - ENLARGED PLANS & INTERIOR ELEVATIONS
PHASE:
BID SET

ISSUE DATE: 19 SEP 2024
PROJECT #: 23030
DRAWN BY: KNG

SHEET NUMBER
A400



BASIS-OF-DESIGN: CASE SYSTEMS



PIEDMONT COMMUNITY COLLEGE
1715 COLLEGE DRIVE
ROXBORO, NORTH CAROLINA 27573
SCO ID#: 23-26709-01A

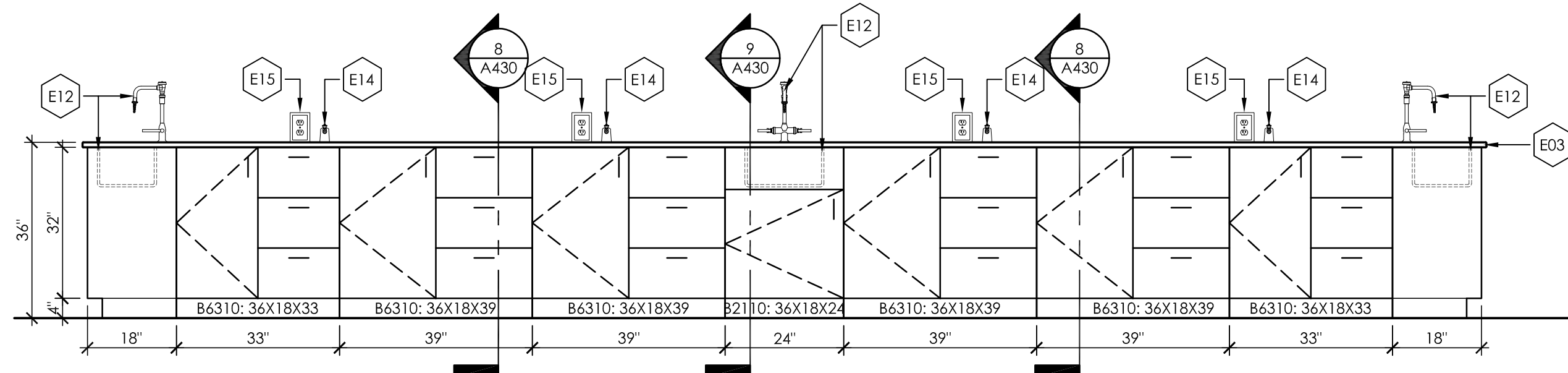
REVISIONS:

#	DESCRIPTION:	DATE

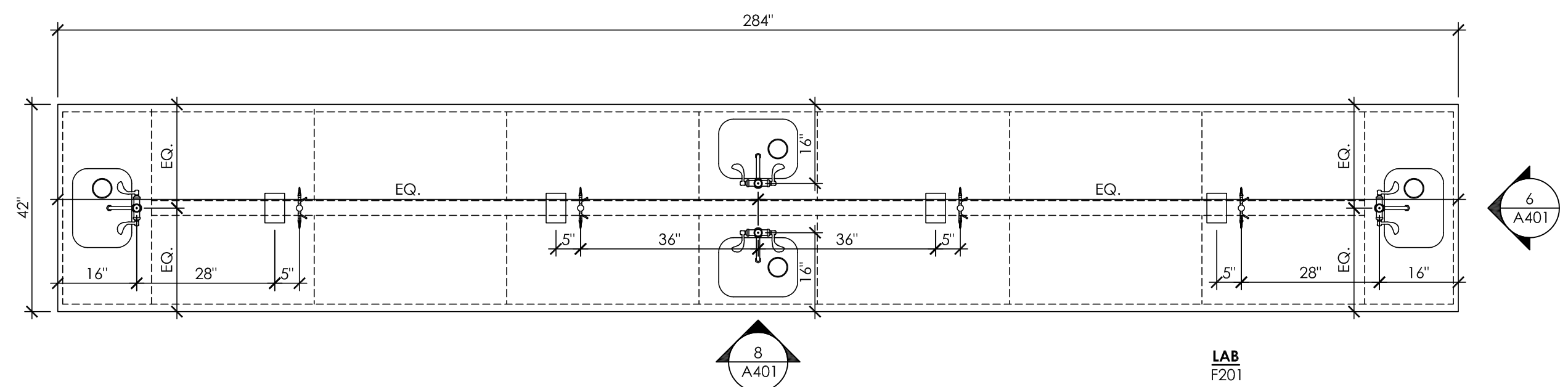
SHEET NAME:
LAB 201 - ENLARGED PLANS & INTERIOR ELEVATIONS
PHASE:
BID SET

ISSUE DATE: **19 SEP 2024**
PROJECT #: **23030**
DRAWN BY: **KNG**

SHEET NUMBER
A401



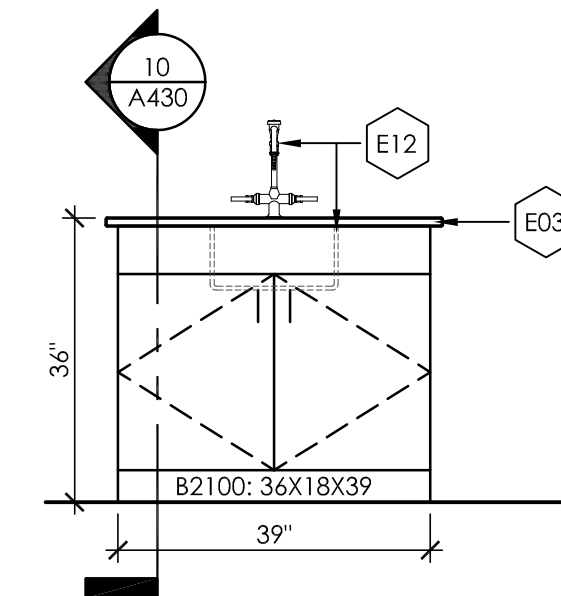
INTERIOR ELEVATION 8
ROOM 201
1/2" = 1'-0"



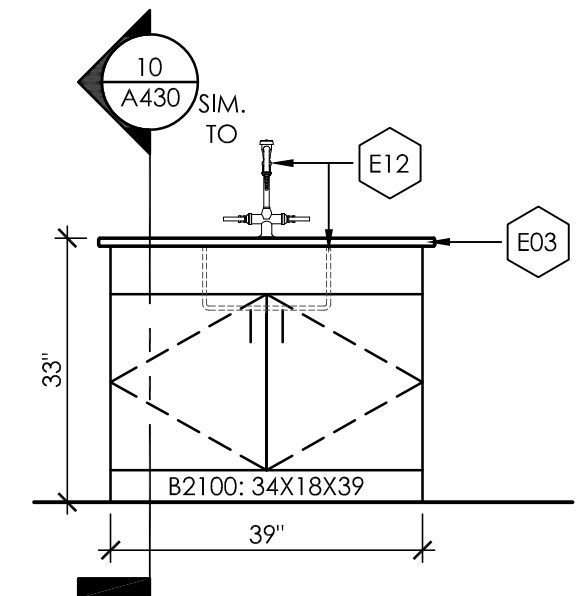
ENLARGED PLAN 7
ROOM 201
1/2" = 1'-0"

LEGEND - ELEVATIONS

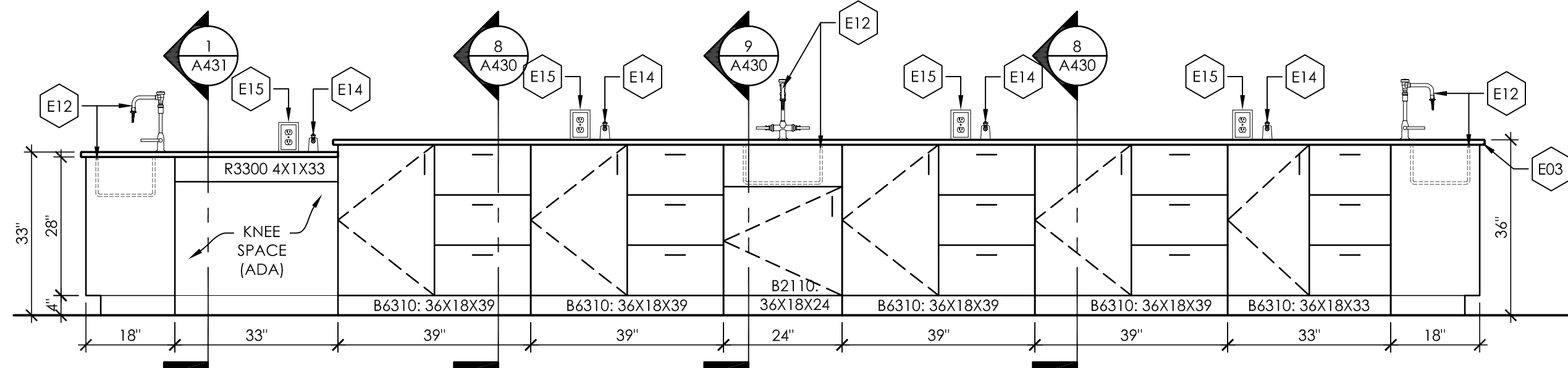
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	DEPTH
	HEIGHT
	MODEL #
#	DETAIL NUMBER
A###	SHEET NUMBER
###	DOOR TAG
E##	RENOVATION NOTE TAG
	TRANSITION STRIP
A	WALL TYPE



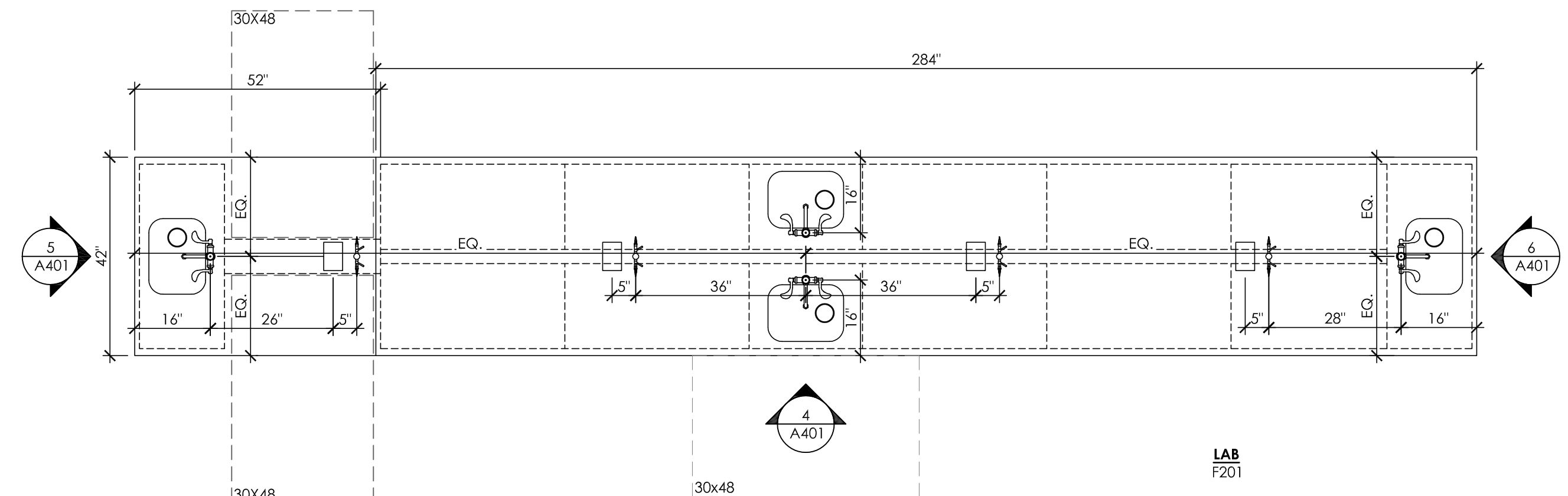
INTERIOR ELEVATION 6
ROOM 201
1/2" = 1'-0"



INTERIOR ELEVATION 5
ROOM 201
1/2" = 1'-0"



INTERIOR ELEVATION 4
ROOM 201
1/2" = 1'-0"

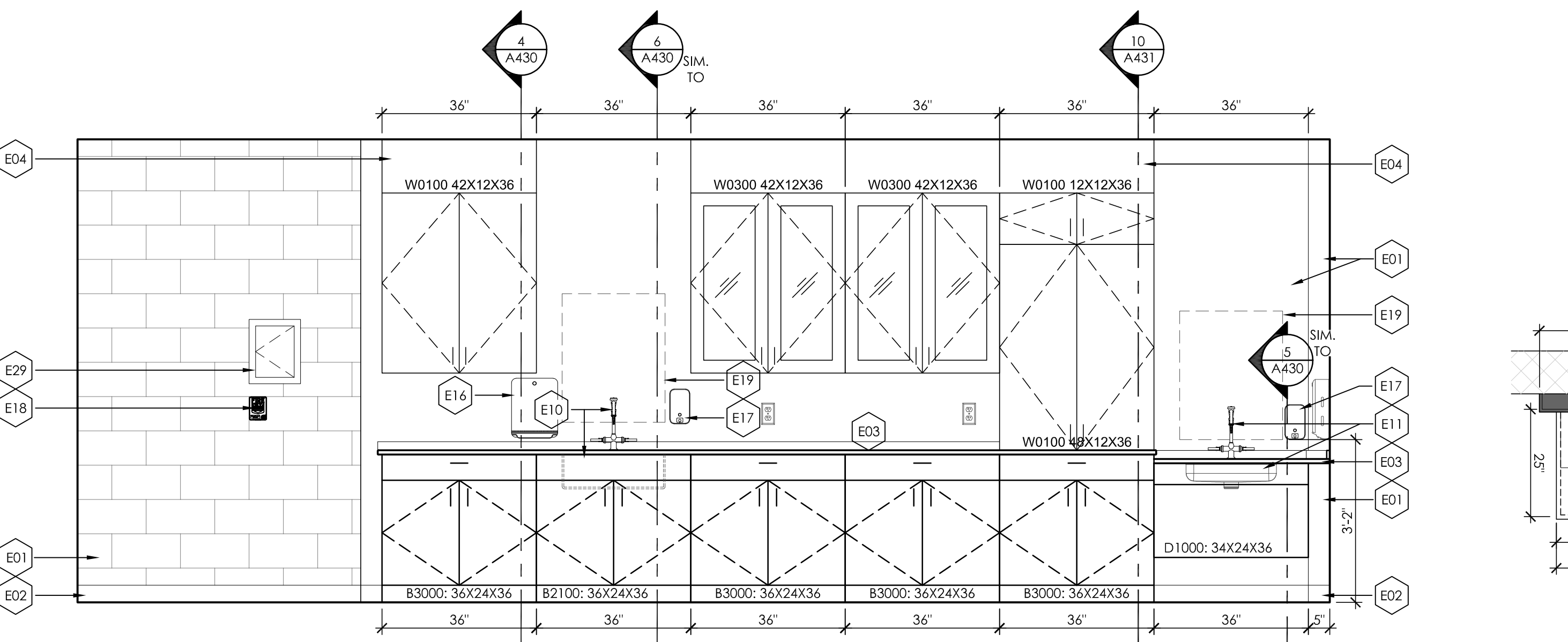


ENLARGED PLAN 3
ROOM 201
1/2" = 1'-0"

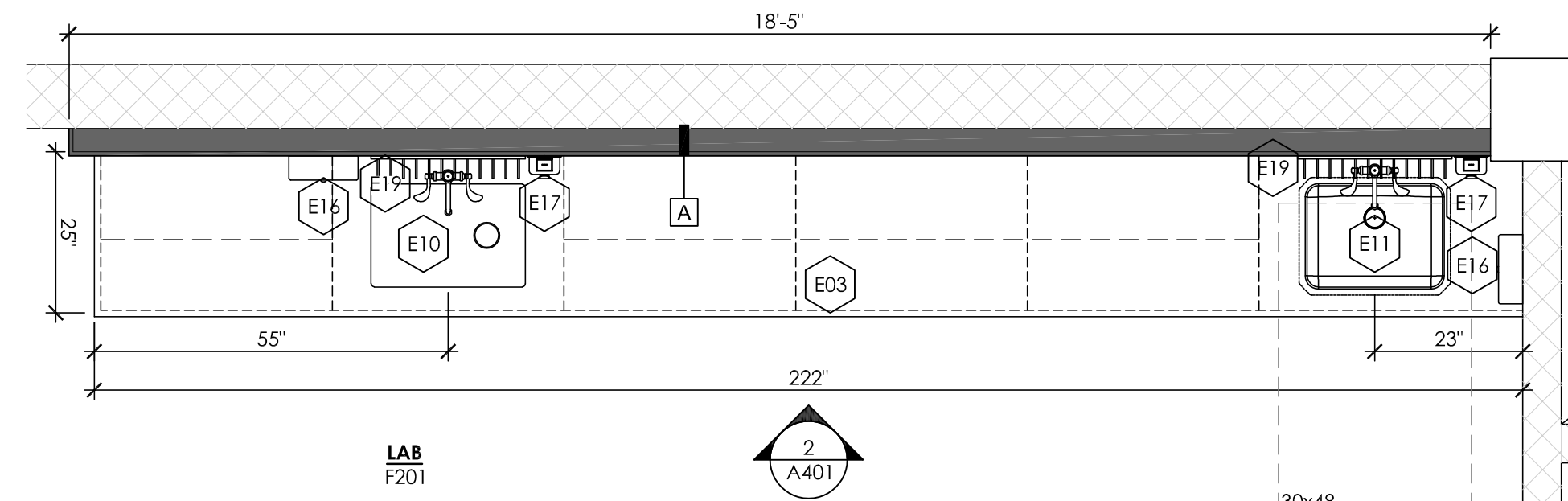
GENERAL NOTES - PLANS/ELEV

- EQUAL MANUFACTURER'S FOR CASEWORK: KEWAUNNE, NYCOM, INC.
- PL01 (SEE FINISH SCHEDULE) FOR ALL CASEWORK FACES.

SHEET NOTES - PLANS & ELEV.



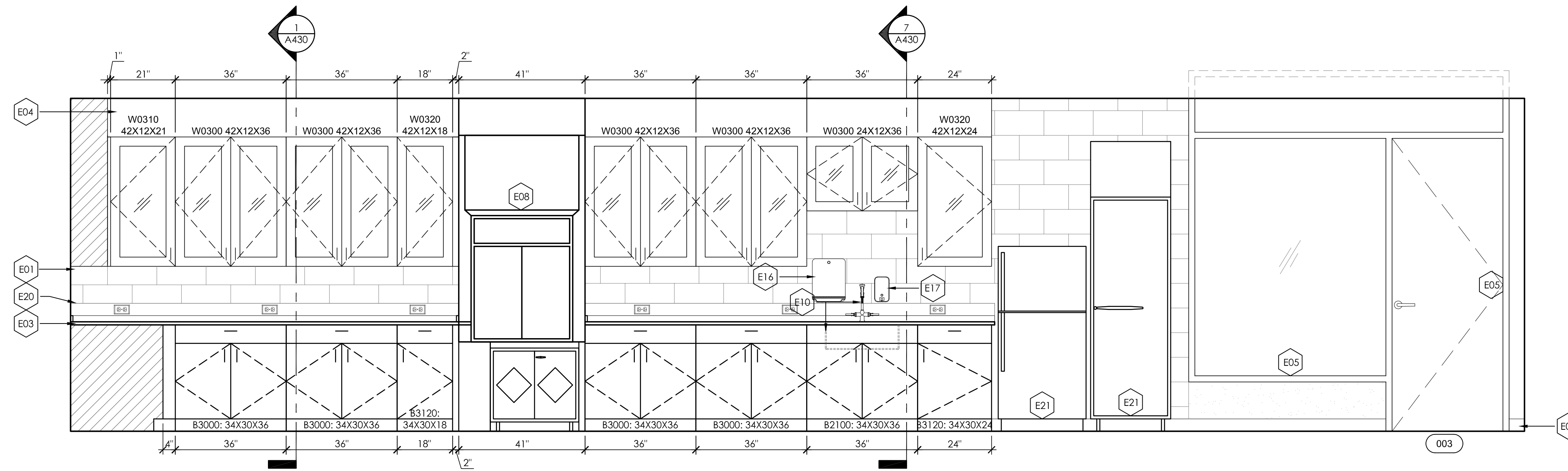
INTERIOR ELEVATION 2
ROOM 201
1/2" = 1'-0"



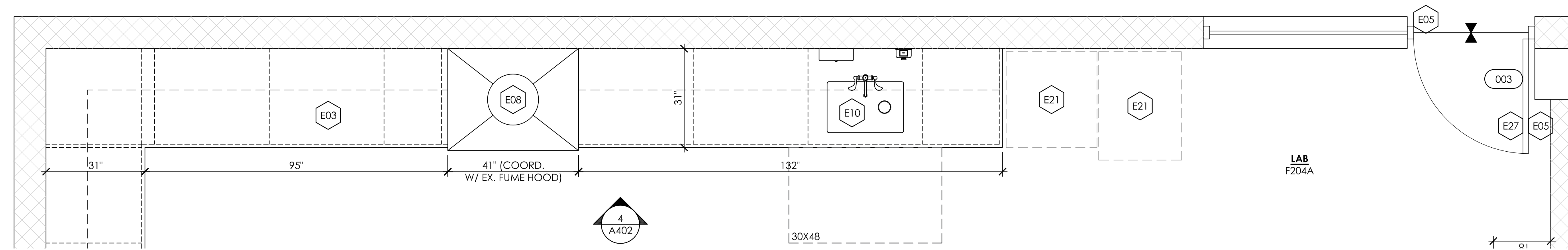
ENLARGED PLAN 1
ROOM 201
1/2" = 1'-0"

BASIS-OF-DESIGN: CASE SYSTEMS

E01	PT01.
E02	EP01.
E03	BLACK RESIN COUNTERTOP & BACKSPASH (WHERE REQUIRED).
E04	GWB SOFFIT; PT02.
E05	PAINT EXISTING/NEW DOOR &/OR WINDOW FRAME; PT02.
E06	EXISTING WHITE BOARD. CLEAN AFTER INSTALL.
E07	REUSE SHOWER/EYEWASH STATION FROM CLASSROOM 204B. PROVIDE NEW SHOWER PULL-HANDLE BE NO MORE THAN 48" A.F.F. IF UNABLE TO REUSE EXISTING PROVIDE (ADD ALTERNATE): BASIS-OF-DESIGN: BRADLEY; COMBINATION DRENCH SHOWER & EYE/FACE WASH UNIT S19-312.
E08	EXISTING FUME HOOD UNIT.
E09	I.T. CABINET. REMOVE ALL SHELVES.
E10	RESIN SINK (CASE SYSTEMS: S5520) & FAUCET (CASE SYSTEMS: SF853).
E11	ADA SINK (ELKAY ELUHAD211545PD) & FAUCET (CASE SYSTEMS: SF853).
E12	SINK (CASE SYSTEMS: S5510) & FAUCET (CASE SYSTEMS: SF603).
E13	SINK (CASE SYSTEMS: S5510) & FAUCET (CASE SYSTEMS: SF853).
E14	GAS CHECK VALVE (CASE SYSTEMS: SF022).
E15	POWER TOMBSTONE W/ USB.
E16	PAPER TOWEL DISPENSER.
E17	SOAP DISPENSER.
E18	FIRE PULL STATION.
E19	DRYING RACK (OWNER PROVIDED & INSTALLED).
E20	METAL POWER RACEWAY.
E21	FRIDGE &/OR FREEZER (OWNER PROVIDED & INSTALLED).
E22	GAS SHUT OFF (SEE PLUMBING).
E23	TEACHING STATION.
E24	EXISTING FIRE EXTINGUISHER.
E25	SPEAKER (OWNER PROVIDED & INSTALLED).
E26	DUPLEX OUTLET & DATA OUTLET.
E27	PAINT EXTERIOR SIDE OF EXTERIOR DOOR; PT03.
E28	TV - OWNER PROVIDED & INSTALLED.
E29	EXISTING GAS SHUT-OFF.



INTERIOR ELEVATION 4
ROOM 204A 1/2" = 1'-0"



ENLARGED PLAN 3
ROOM 204A 1/2" = 1'-0"

LEGEND - ELEVATIONS

- B###: ###X##X## WIDTH
DEPTH
HEIGHT
MODEL #
- # DETAIL NUMBER
- A### SHEET NUMBER
- ### DOOR TAG
- E## RENOVATION NOTE TAG
- Transition Strip
- WALL TYPE

GENERAL NOTES - PLANS/ELEV

- EQUAL MANUFACTURER'S FOR CASEWORK: KEWAUNNE, NYCOM, INC.
- PLO1 (SEE FINISH SCHEDULE) FOR ALL CASEWORK FACES.

SHEET NOTES - PLANS & ELEV.

- E01 PT01.
- E02 EP01.
- E03 BLACK RESIN COUNTERTOP & BACKSPASH (WHERE REQUIRED).
- E04 G/WB SOFFIT; PT02.
- E05 PAINT EXISTING/NEW DOOR &/OR WINDOW FRAME; PT02.
- E06 EXISTING WHITE BOARD. CLEAN AFTER INSTALL.
- E07 REUSE SHOWER/EYEWASH STATION FROM CLASSROOM 204B. PROVIDE NEW SHOWER PULL-HANDLE BE NO MORE THAN 48" A.F.F. IF UNABLE TO REUSE EXISTING PROVIDE (ADD ALTERNATE): **BASIS-OF-DESIGN:** BRADLEY; COMBINATION DRENCH SHOWER & EYE/FACE WASH UNIT S19-312.
- E08 EXISTING FUME HOOD UNIT.
- E09 I.T. CABINET. REMOVE ALL SHELVES.
- E10 RESIN SINK (CASE SYSTEMS: S5520) & FAUCET (CASE SYSTEMS: SF853).
- E11 ADA SINK (ELKAY ELUHAD211545PD) & FAUCET (CASE SYSTEMS: SF853).
- E12 SINK (CASE SYSTEMS: S5510) & FAUCET (CASE SYSTEMS: SF603).
- E13 SINK (CASE SYSTEMS: S5510) & FAUCET (CASE SYSTEMS: SF853).
- E14 GAS CHECK VALVE (CASE SYSTEMS: SF022).
- E15 POWER TOMBSTONE W/ USB.
- E16 PAPER TOWEL DISPENSER.
- E17 SOAP DISPENSER.
- E18 FIRE PULL STATION.
- E19 DRYING RACK (OWNER PROVIDED & INSTALLED).
- E20 METAL POWER RACEWAY.
- E21 FRIDGE &/OR FREEZER (OWNER PROVIDED & INSTALLED).
- E22 GAS SHUT OFF (SEE PLUMBING).
- E23 TEACHING STATION.
- E24 EXISTING FIRE EXTINGUISHER.
- E25 SPEAKER (OWNER PROVIDED & INSTALLED).
- E26 DUPLEX OUTLET & DATA OUTLET.
- E27 PAINT EXTERIOR SIDE OF EXTERIOR DOOR; PT03.
- E28 TV - OWNER PROVIDED & INSTALLED.
- E29 EXISTING GAS SHUT-OFF.

PIEDMONT COMMUNITY COLLEGE
1715 COLLEGE DRIVE
ROXBORO, NORTH CAROLINA 27573
SCO ID#: 23-26709-01A

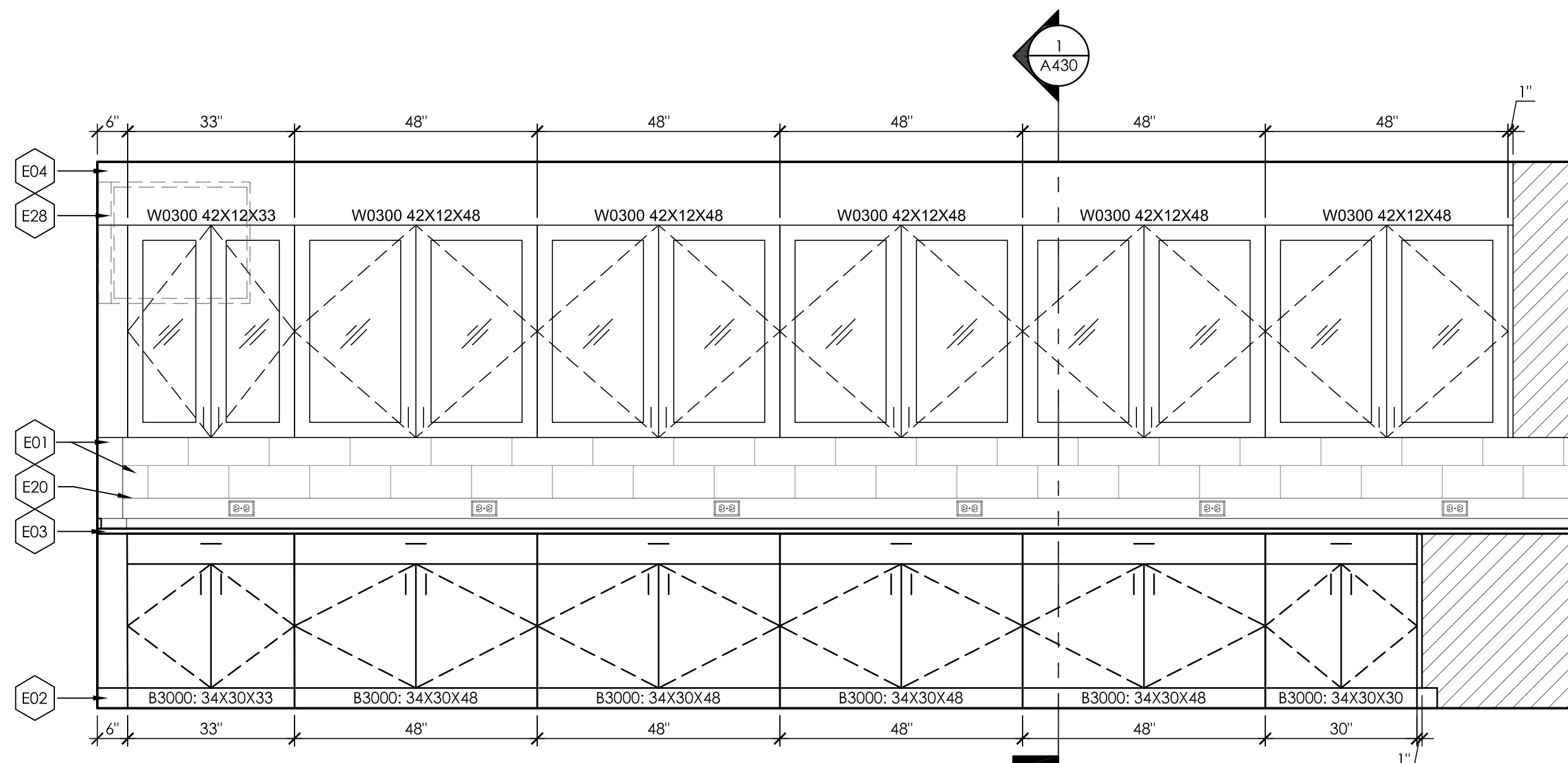
REVISIONS:

#	DESCRIPTION:	DATE

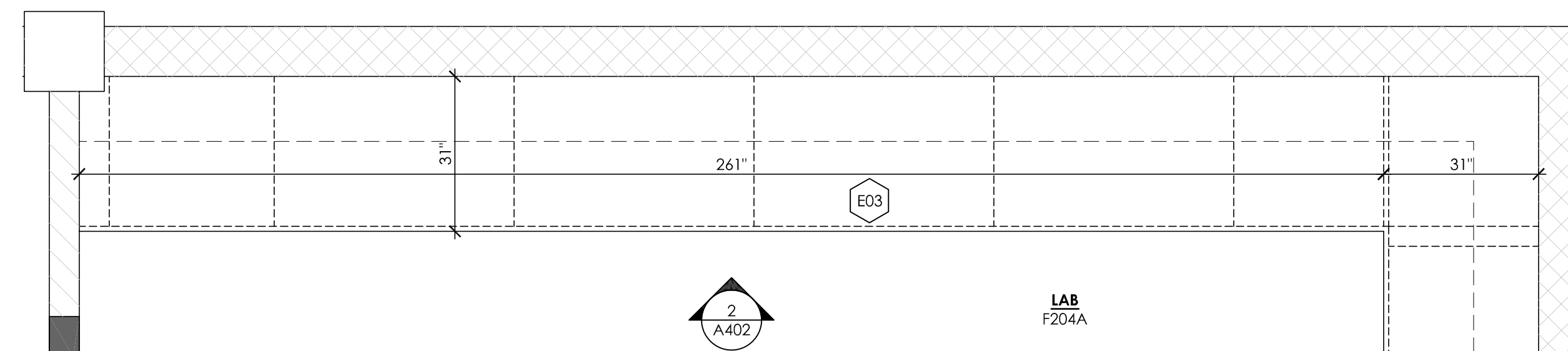
SHEET NAME:
LAB 204A - ENLARGED PLANS & INTERIOR ELEVATIONS
PHASE:
BID SET

ISSUE DATE: 19 SEP 2024
PROJECT #: 23030
DRAWN BY: KNG

SHEET NUMBER
A402



INTERIOR ELEVATION 2
ROOM 204A 1/2" = 1'-0"



ENLARGED PLAN 1
ROOM 204A 1/2" = 1'-0"

BASIS-OF-DESIGN: CASE SYSTEMS



PIEDMONT COMMUNITY COLLEGE
1715 COLLEGE DRIVE
ROXBORO, NORTH CAROLINA 27573
SCO ID#: 23-26709-01A

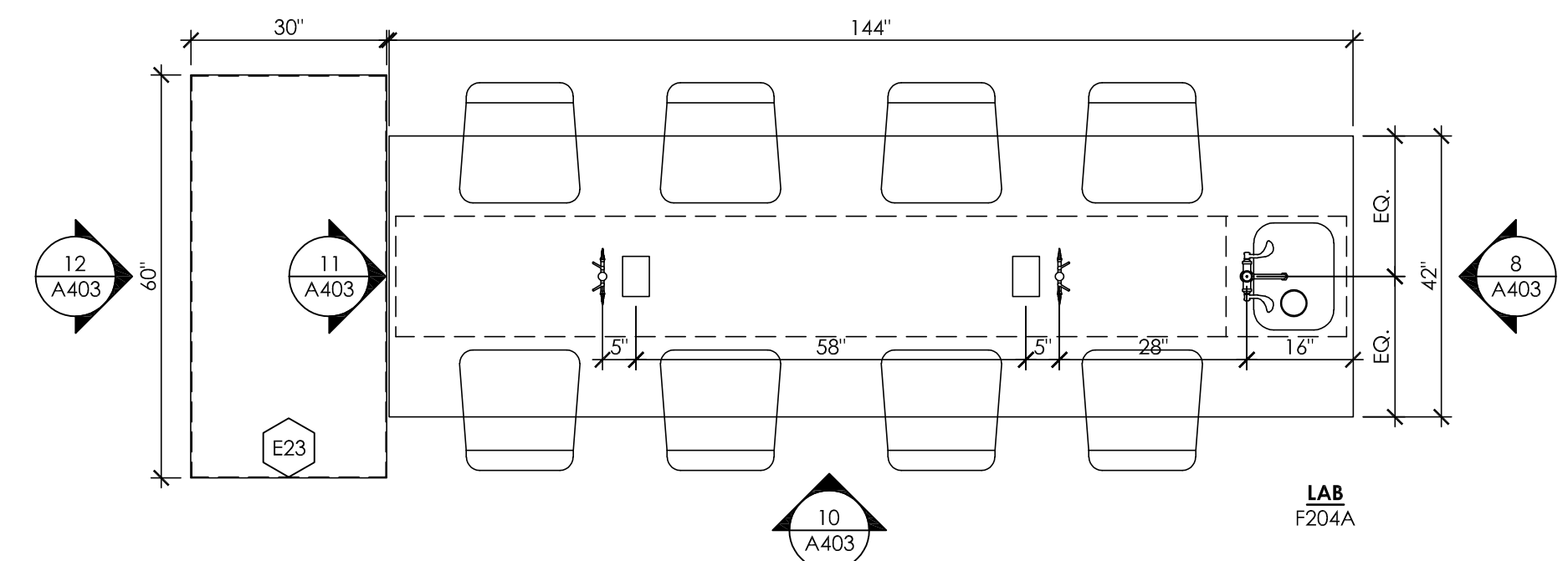
REVISIONS:

#	DESCRIPTION:	DATE

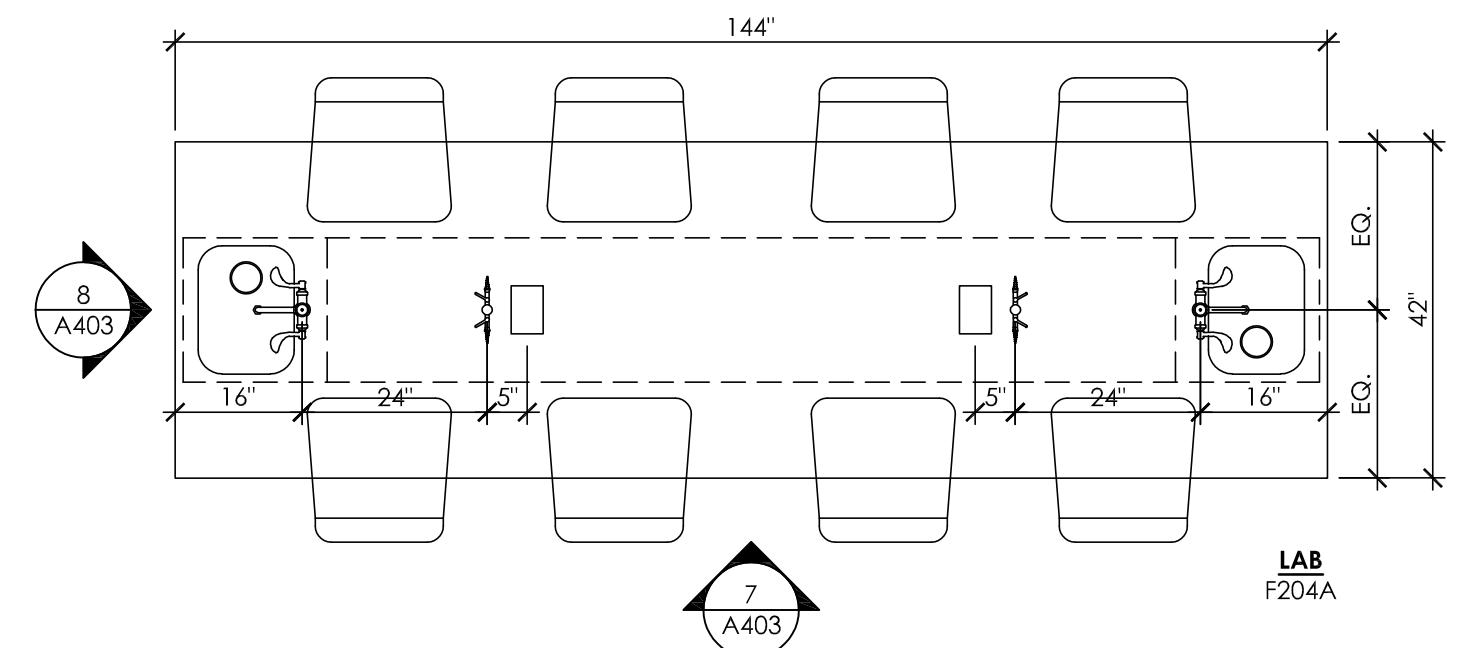
SHEET NAME:
LAB 204A - ENLARGED PLANS & INTERIOR ELEVATIONS
PHASE:
BID SET

ISSUE DATE: **19 SEP 2024**
PROJECT #: **23030**
DRAWN BY: **KNG**

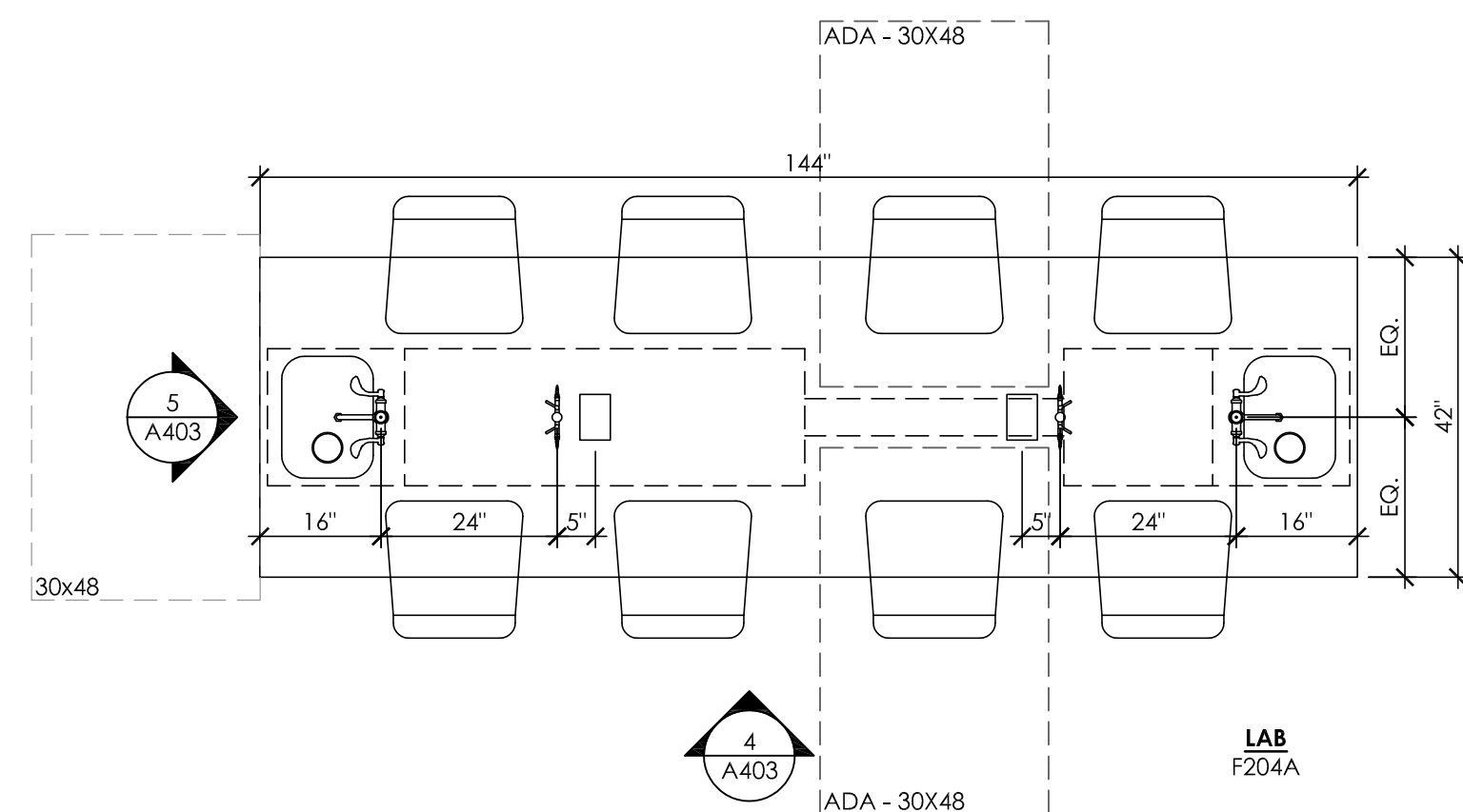
SHEET NUMBER
A403



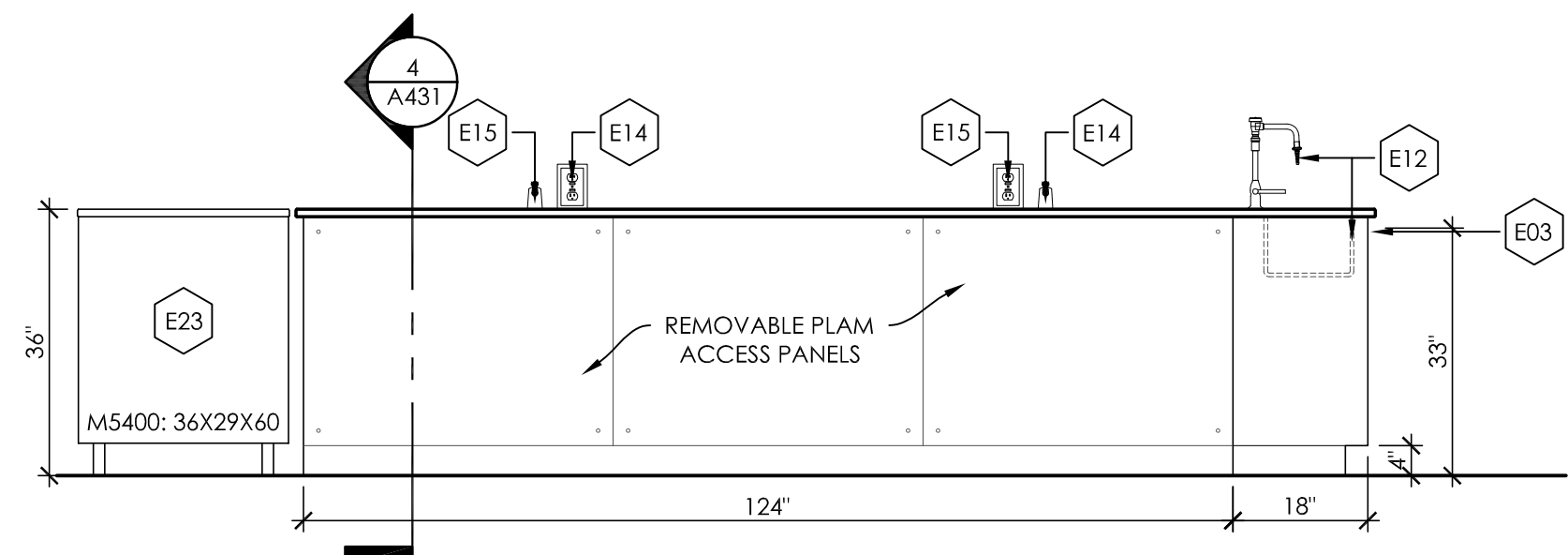
ENLARGED PLAN 9
ROOM 204A 1/2" = 1'-0"



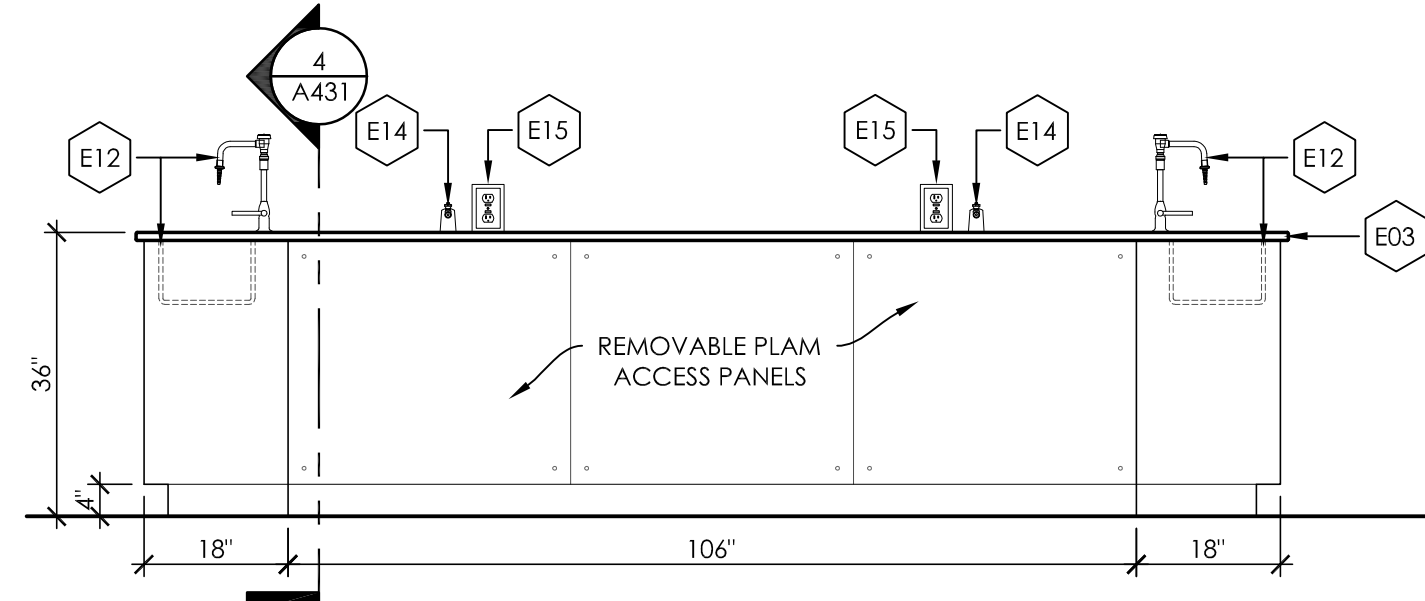
ENLARGED PLAN 6
ROOM 204A 1/2" = 1'-0"



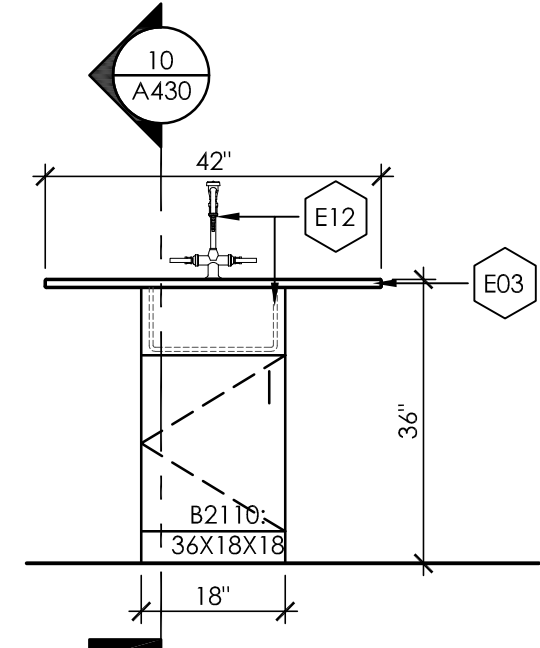
ENLARGED PLAN 3
ROOM 204A 1/2" = 1'-0"



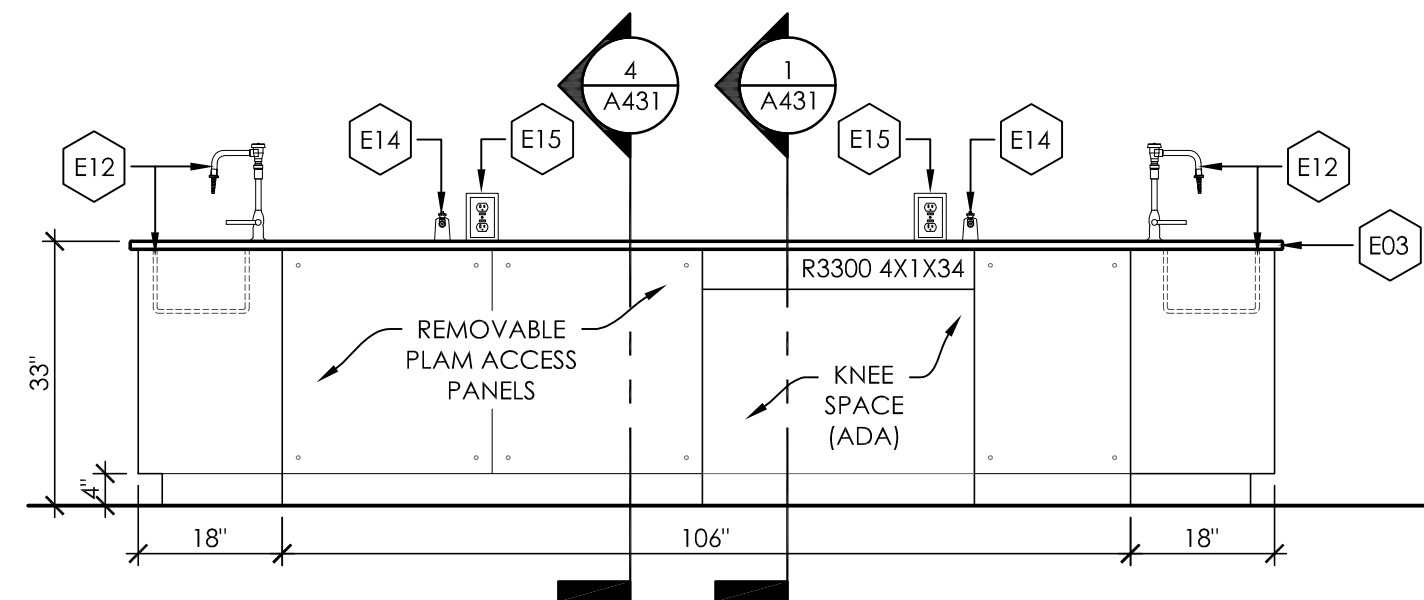
INTERIOR ELEVATION 10
ROOM 204A 1/2" = 1'-0"



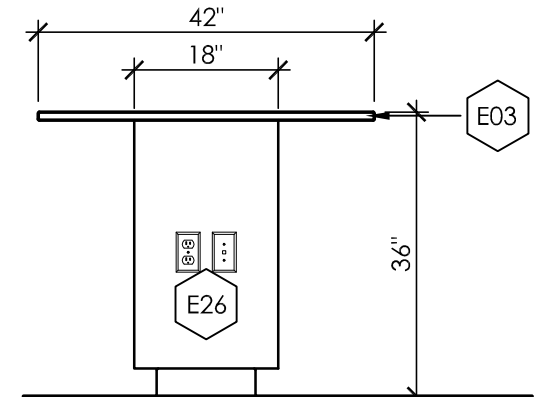
INTERIOR ELEVATION 7
ROOM 204A 1/2" = 1'-0"



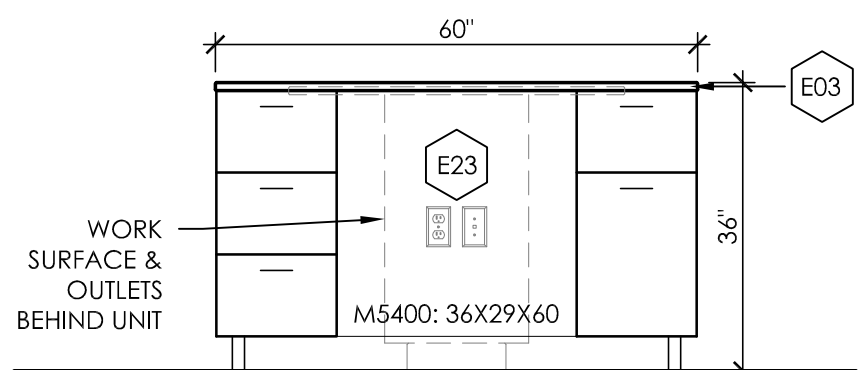
INTERIOR ELEVATION 8
ROOM 204A 1/2" = 1'-0"



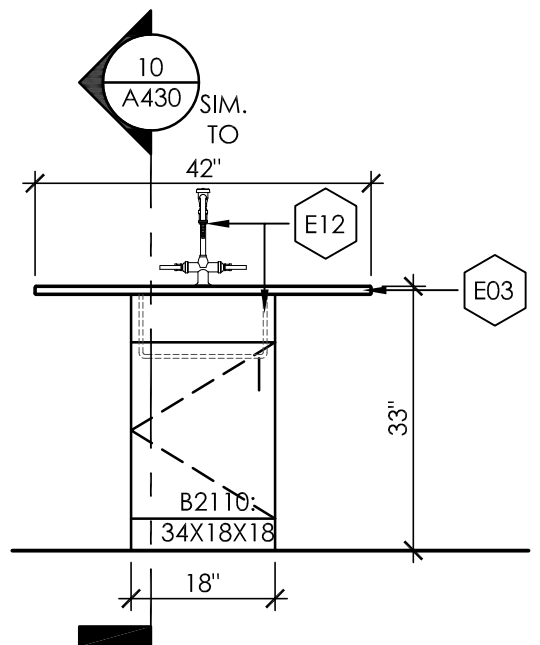
INTERIOR ELEVATION 4
ROOM 204A 1/2" = 1'-0"



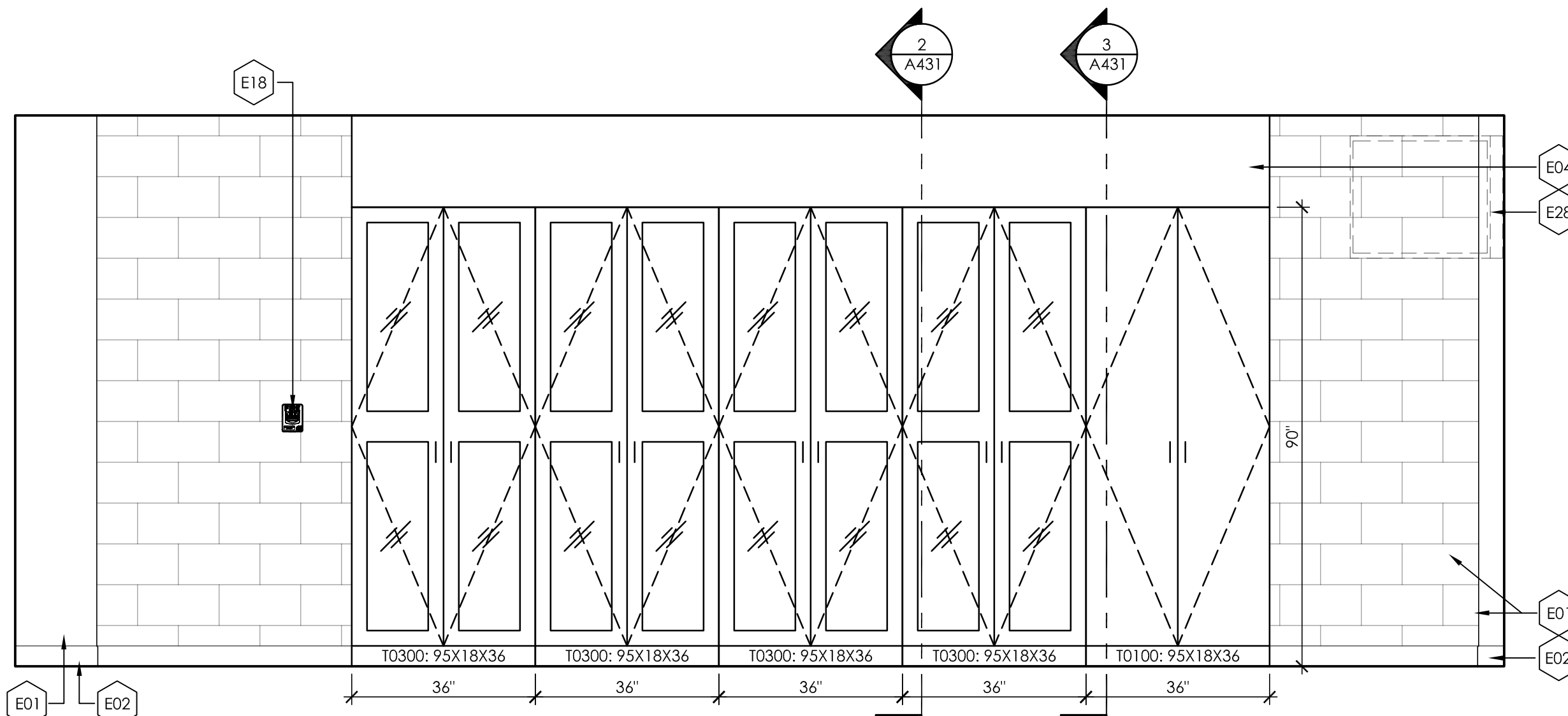
INTERIOR ELEVATION 11
ROOM 204A 1/2" = 1'-0"



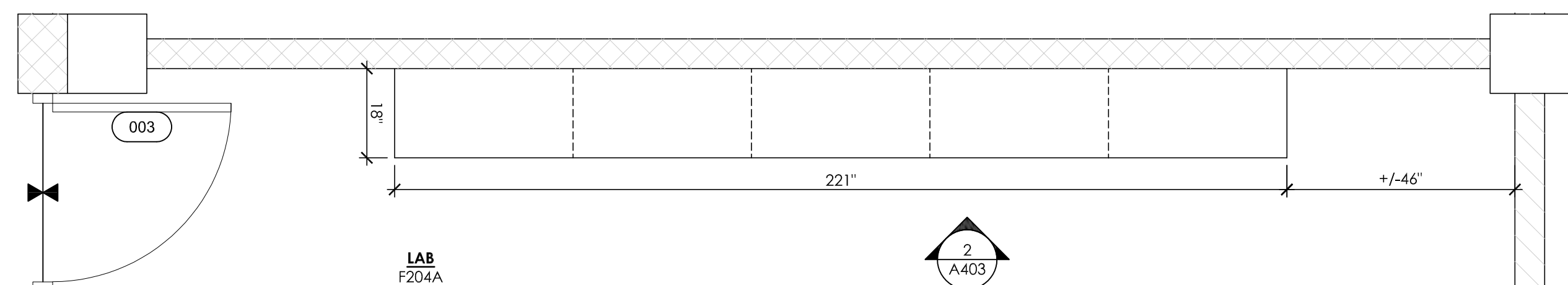
INTERIOR ELEVATION 12
ROOM 204A 1/2" = 1'-0"



INTERIOR ELEVATION 5
ROOM 204A 1/2" = 1'-0"



INTERIOR ELEVATION 2
ROOM 204A 1/2" = 1'-0"



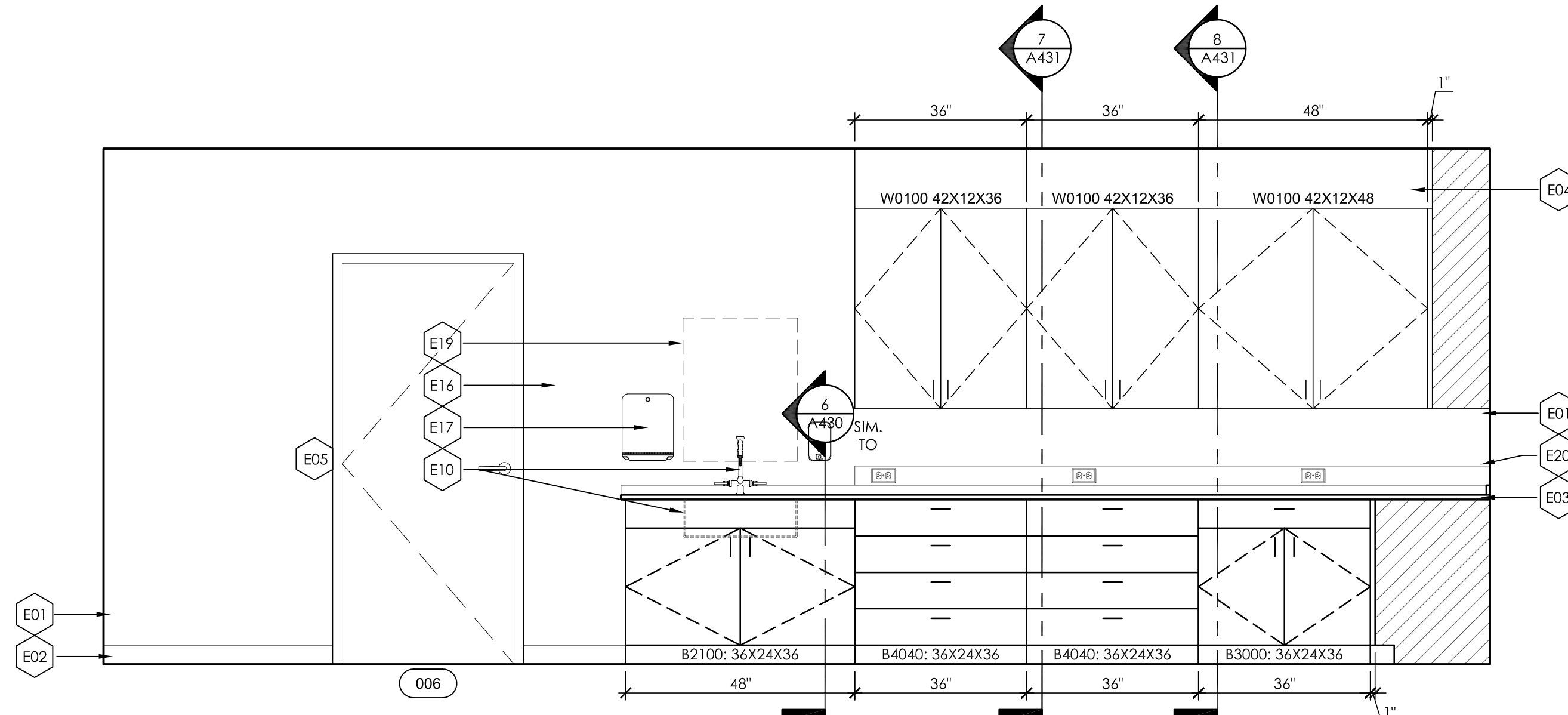
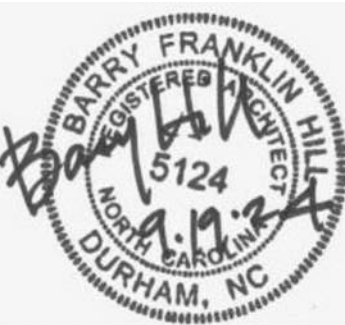
ENLARGED PLAN 1
ROOM 204A 1/2" = 1'-0"

BASIS-OF-DESIGN: CASE SYSTEMS

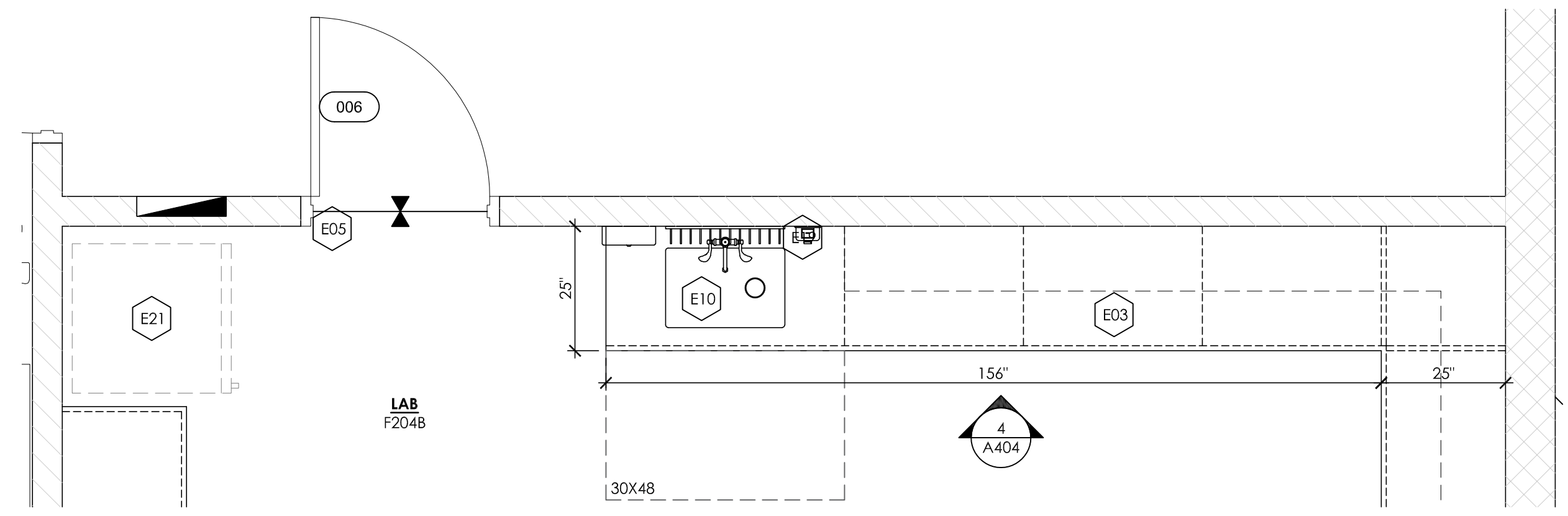
LEGEND - ELEVATIONS	
B##: ##X##X##	WIDTH DEPTH HEIGHT MODEL #
#	DETAIL NUMBER
A##	SHEET NUMBER
##	DOOR TAG
E#	RENOVATION NOTE TAG
— —	TRANSITION STRIP
— —	WALL TYPE

GENERAL NOTES - PLANS/ELEV	
•	EQUAL MANUFACTURER'S FOR CASEWORK: KEWAUNNE, NYCOM, INC.
•	PL01 (SEE FINISH SCHEDULE) FOR ALL CASEWORK FACES.

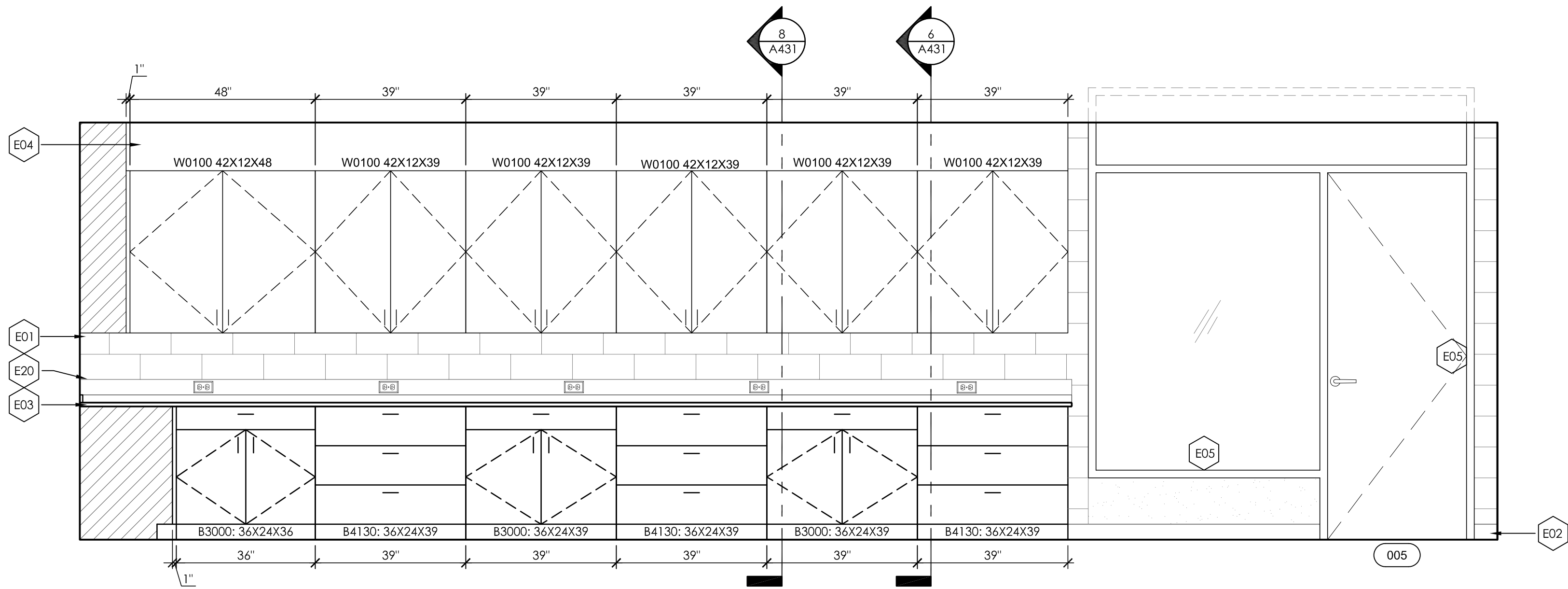
SHEET NOTES - PLANS & ELEV.	
E01	PT01.
E02	EP01.
E03	BLACK RESIN COUNTERTOP & BACKSPASH (WHERE REQUIRED).
E04	GWB SOFFIT; PT02.
E05	PAINT EXISTING/NEW DOOR &/OR WINDOW FRAME; PT02.
E06	EXISTING WHITE BOARD. CLEAN AFTER INSTALL.
E07	REUSE SHOWER/EYEWASH STATION FROM CLASSROOM 204B. PROVIDE NEW SHOWER PULL-HANDLE BE NO MORE THAN 48" A.F.F. IF UNABLE TO REUSE EXISTING PROVIDE (ADD ALTERNATE): BASIS-OF-DESIGN: BRADLEY: COMBINATION DRENCH SHOWER & EYE/FACE WASH UNIT S19-312.
E08	EXISTING FUME HOOD UNIT.
E09	I.T. CABINET. REMOVE ALL SHELVES.
E10	RESIN SINK (CASE SYSTEMS: S5520) & FAUCET (CASE SYSTEMS: SF853).
E11	ADA SINK (ELKAY ELUHAD211545PD) & FAUCET (CASE SYSTEMS: SF853).
E12	SINK (CASE SYSTEMS: S5510) & FAUCET (CASE SYSTEMS: SF603).
E13	SINK (CASE SYSTEMS: S5510) & FAUCET (CASE SYSTEMS: SF853).
E14	GAS CHECK VALVE (CASE SYSTEMS: SF022).
E15	POWER TOMBSTONE W/ USB.
E16	PAPER TOWEL DISPENSER.
E17	SOAP DISPENSER.
E18	FIRE PULL STATION.
E19	DRYING RACK (OWNER PROVIDED & INSTALLED).
E20	METAL POWER RACEWAY.
E21	FRIDGE &/OR FREEZER (OWNER PROVIDED & INSTALLED).
E22	GAS SHUT OFF (SEE PLUMBING).
E23	TEACHING STATION.
E24	EXISTING FIRE EXTINGUISHER.
E25	SPEAKER (OWNER PROVIDED & INSTALLED).
E26	DUPLEX OUTLET & DATA OUTLET.
E27	PAINT EXTERIOR SIDE OF EXTERIOR DOOR; PT03.
E28	TV - OWNER PROVIDED & INSTALLED.
E29	EXISTING GAS SHUT-OFF.



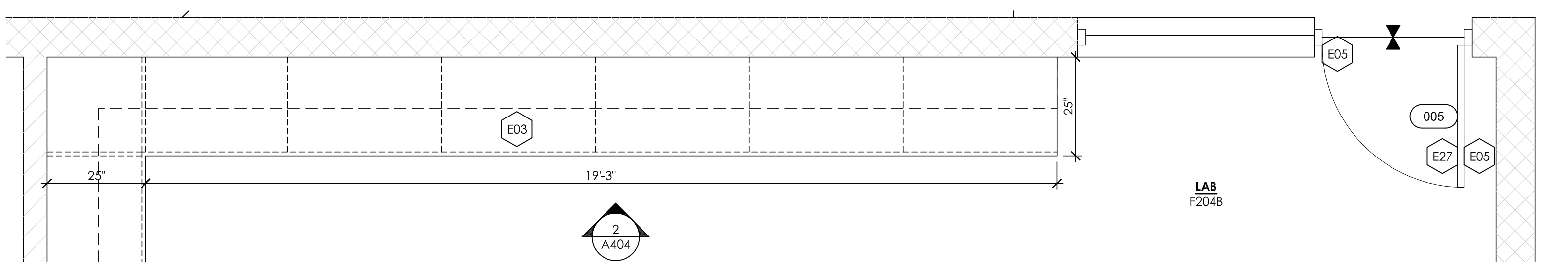
INTERIOR ELEVATION 4
ROOM 204B 1/2" = 1'-0"



ENLARGED PLAN 3
ROOM 204B 1/2" = 1'-0"



INTERIOR ELEVATION 2
ROOM 204B 1/2" = 1'-0"



ENLARGED PLAN 1
ROOM 204B 1/2" = 1'-0"

BASIS-OF-DESIGN: CASE SYSTEMS

LEGEND - ELEVATIONS

- B###: ####X## WIDTH
- DEPTH
- HEIGHT
- MODEL #
- # DETAIL NUMBER
- A### SHEET NUMBER
- ### DOOR TAG
- E## RENOVATION NOTE TAG
- TRANSITION STRIP
- WALL TYPE

GENERAL NOTES - PLANS/ELEV

- EQUAL MANUFACTURER'S FOR CASEWORK: KEWAUNNE, NYCOM, INC.
- PLOT1 (SEE FINISH SCHEDULE) FOR ALL CASEWORK FACES.

SHEET NOTES - PLANS & ELEV.

- E01 PT01.
- E02 EP01.
- E03 BLACK RESIN COUNTERTOP & BACKSPASH (WHERE REQUIRED).
- E04 GWB SOFFIT; PT02.
- E05 PAINT EXISTING/NEW DOOR &/OR WINDOW FRAME; PT02.
- E06 EXISTING WHITE BOARD. CLEAN AFTER INSTALL.
- E07 REUSE SHOWER/EYEWASH STATION FROM CLASSROOM 204B. PROVIDE NEW SHOWER PULL-HANDLE BE NO MORE THAN 48" A.F.F. IF UNABLE TO REUSE EXISTING PROVIDE (ADD ALTERNATE): **BASIS-OF-DESIGN: BRADLEY: COMBINATION DRENCH SHOWER & EYE/FACE WASH UNIT S19-312.**
- E08 EXISTING FUME HOOD UNIT.
- E09 I.T. CABINET. REMOVE ALL SHELVES.
- E10 RESIN SINK (CASE SYSTEMS: S5520) & FAUCET (CASE SYSTEMS: SF853).
- E11 ADA SINK (ELKAY ELUHAD211545PD) & FAUCET (CASE SYSTEMS: SF853).
- E12 SINK (CASE SYSTEMS: S5510) & FAUCET (CASE SYSTEMS: SF603).
- E13 SINK (CASE SYSTEMS: S5510) & FAUCET (CASE SYSTEMS: SF853).
- E14 GAS CHECK VALVE (CASE SYSTEMS: SF022).
- E15 POWER TOMBSTONE W/ USB.
- E16 PAPER TOWEL DISPENSER.
- E17 SOAP DISPENSER.
- E18 FIRE PULL STATION.
- E19 DRYING RACK (OWNER PROVIDED & INSTALLED).
- E20 METAL POWER RACEWAY.
- E21 FRIDGE &/OR FREEZER (OWNER PROVIDED & INSTALLED).
- E22 GAS SHUT OFF (SEE PLUMBING).
- E23 TEACHING STATION.
- E24 EXISTING FIRE EXTINGUISHER.
- E25 SPEAKER (OWNER PROVIDED & INSTALLED).
- E26 DUPLEX OUTLET & DATA OUTLET.
- E27 PAINT EXTERIOR SIDE OF EXTERIOR DOOR; PT03.
- E28 TV - OWNER PROVIDED & INSTALLED.
- E29 EXISTING GAS SHUT-OFF.

PIEDMONT COMMUNITY COLLEGE
1715 COLLEGE DRIVE
ROXBORO, NORTH CAROLINA 27573
SCO ID#: 23-26709-01A

REVISIONS:

#	DESCRIPTION:	DATE

SHEET NAME:
LAB 204B - INTERIOR ELEVATIONS
PHASE:
BID SET

ISSUE DATE: 19 SEP 2024
PROJECT #: 23030
DRAWN BY: KNG

SHEET NUMBER
A404



PIEDMONT COMMUNITY COLLEGE
1715 COLLEGE DRIVE
ROXBORO, NORTH CAROLINA 27573
SCO ID#: 23-26709-01A

REVISIONS:

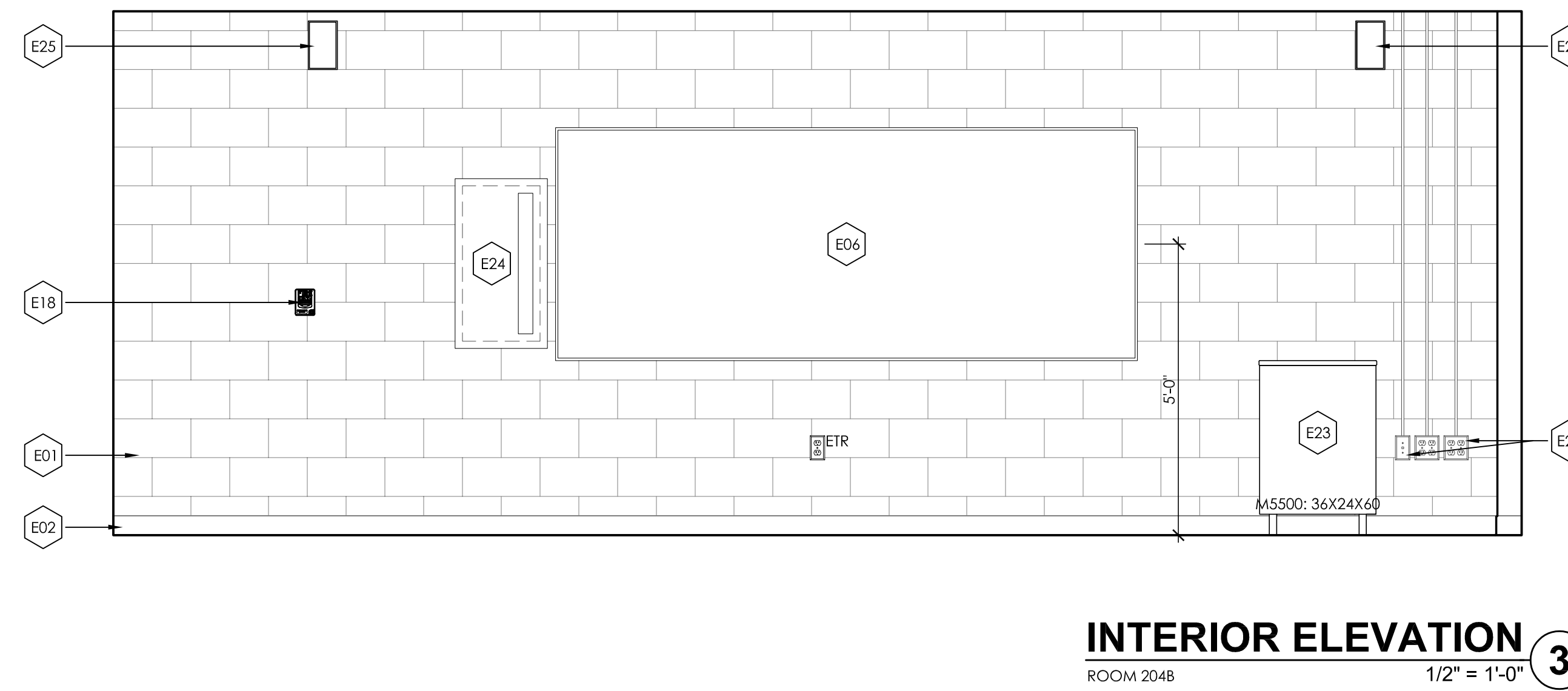
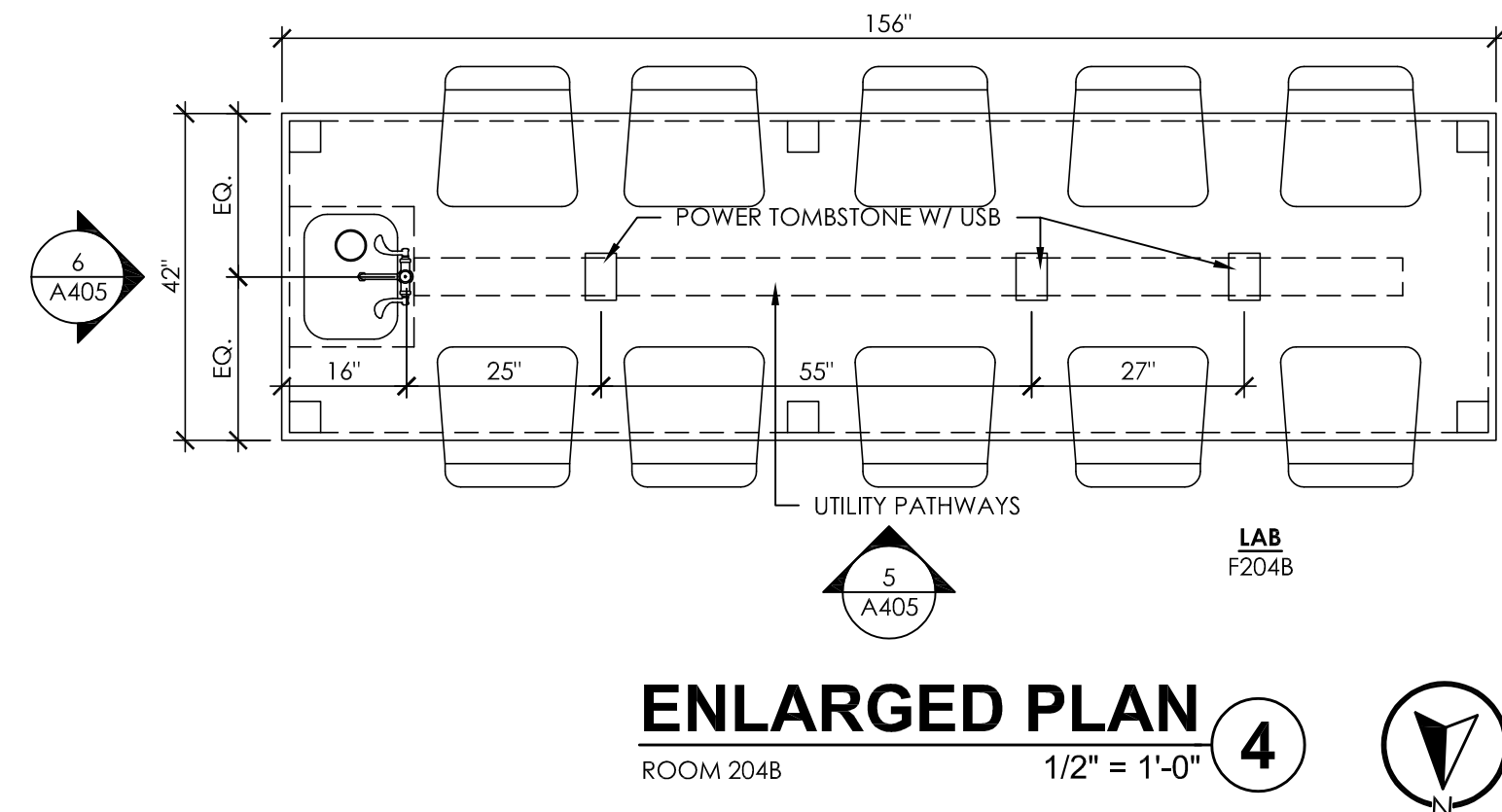
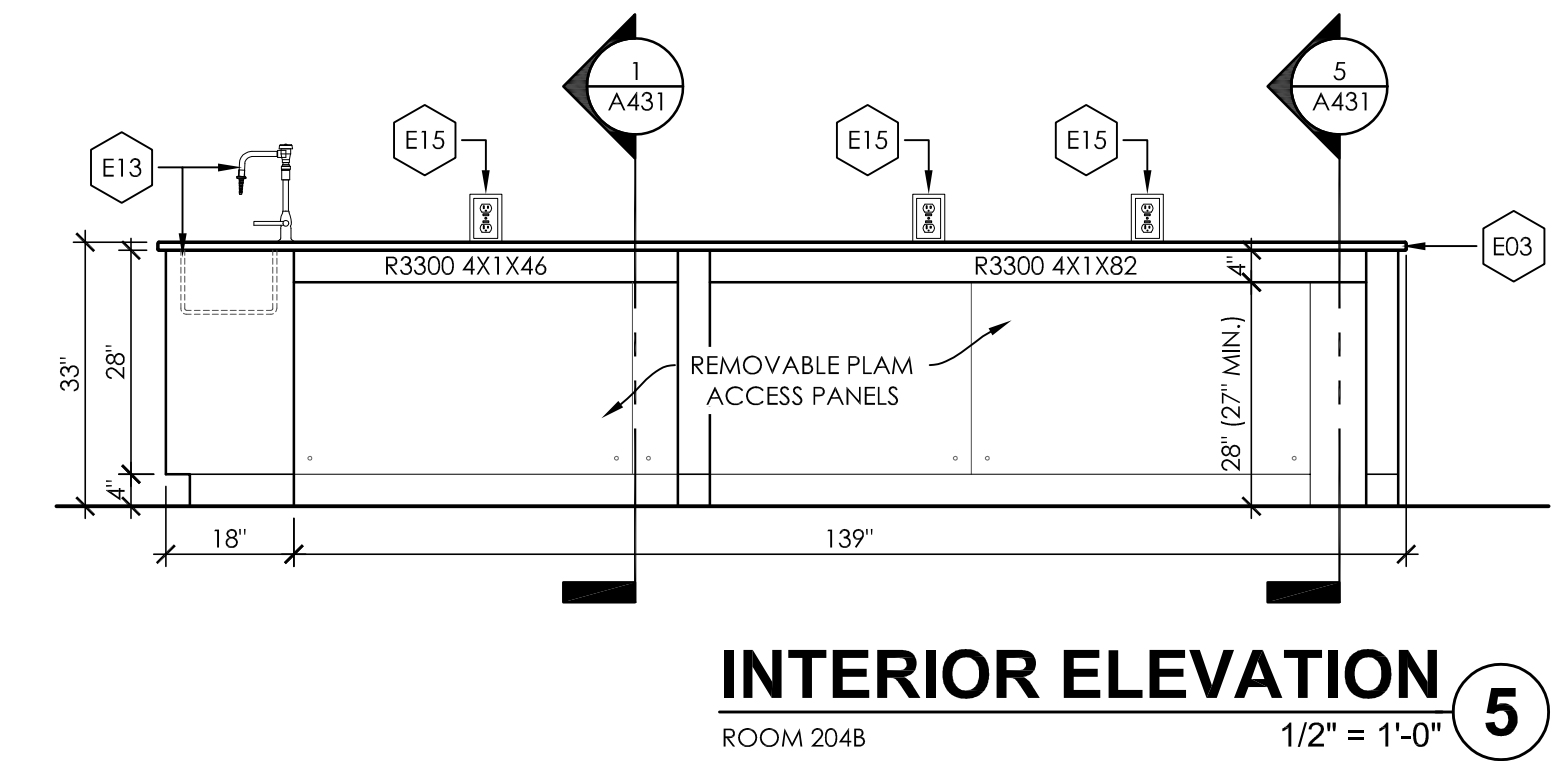
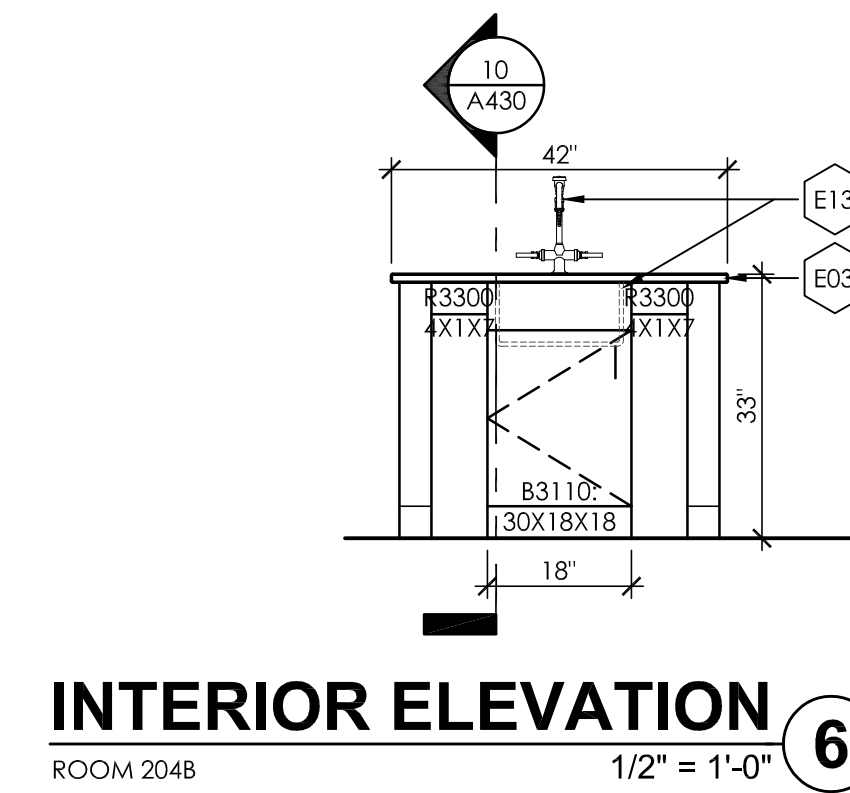
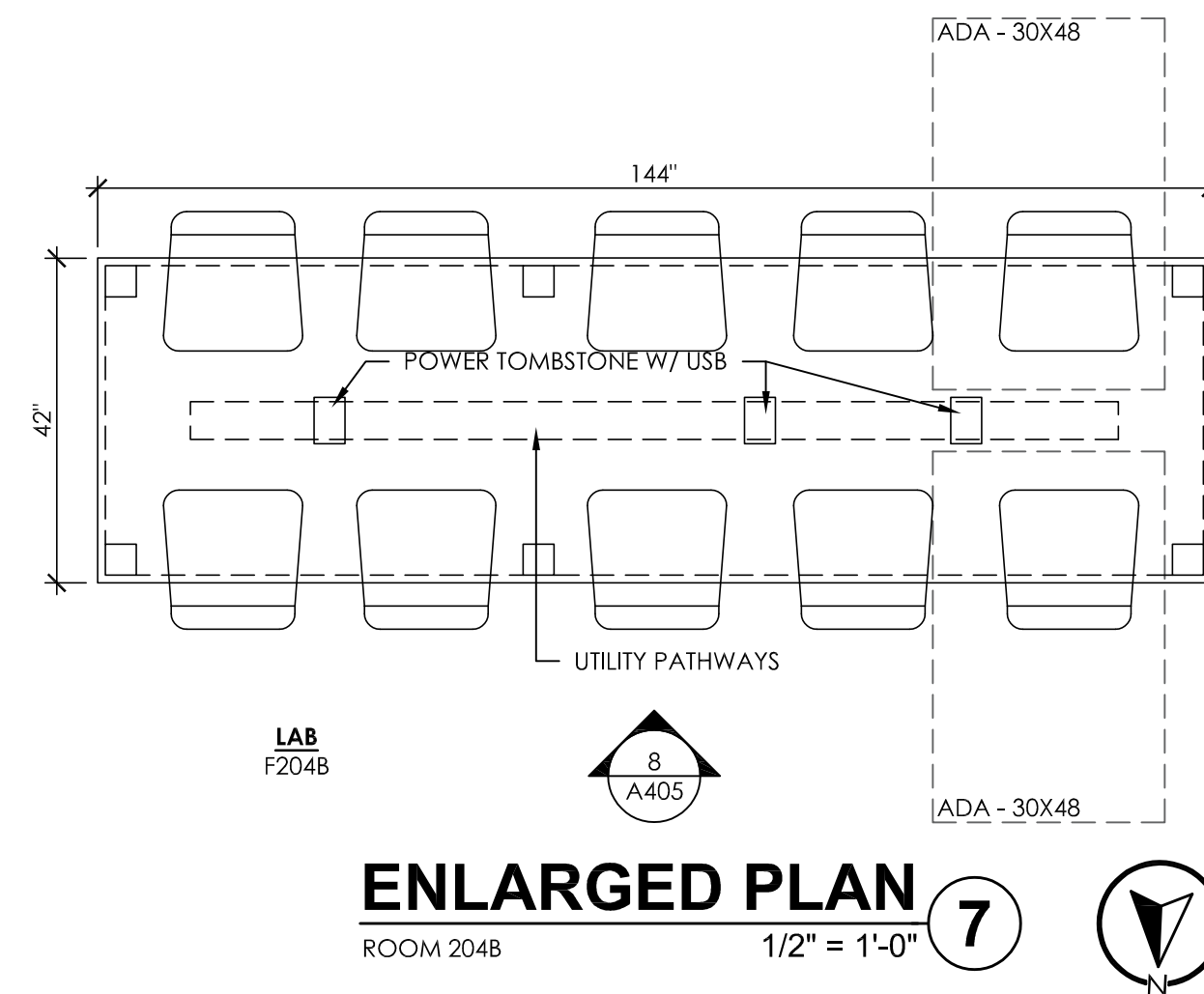
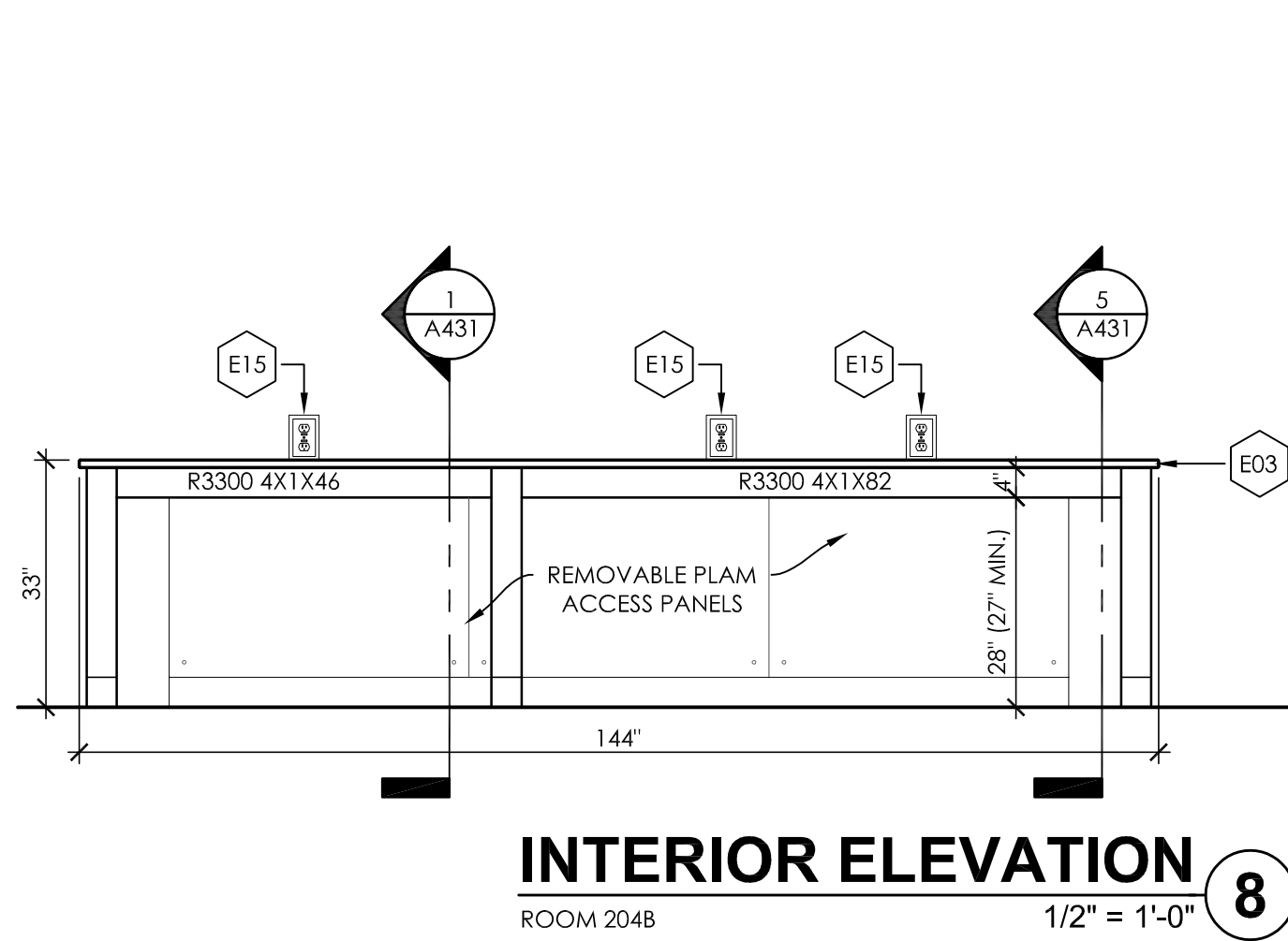
#	DESCRIPTION:	DATE

SHEET NAME:
LAB 204B - ENLARGED PLANS & INTERIOR ELEVATIONS

PHASE:
BID SET

ISSUE DATE: **19 SEP 2024**
PROJECT #: **23030**
DRAWN BY: **KNG**

SHEET NUMBER
A405



LEGEND - ELEVATIONS

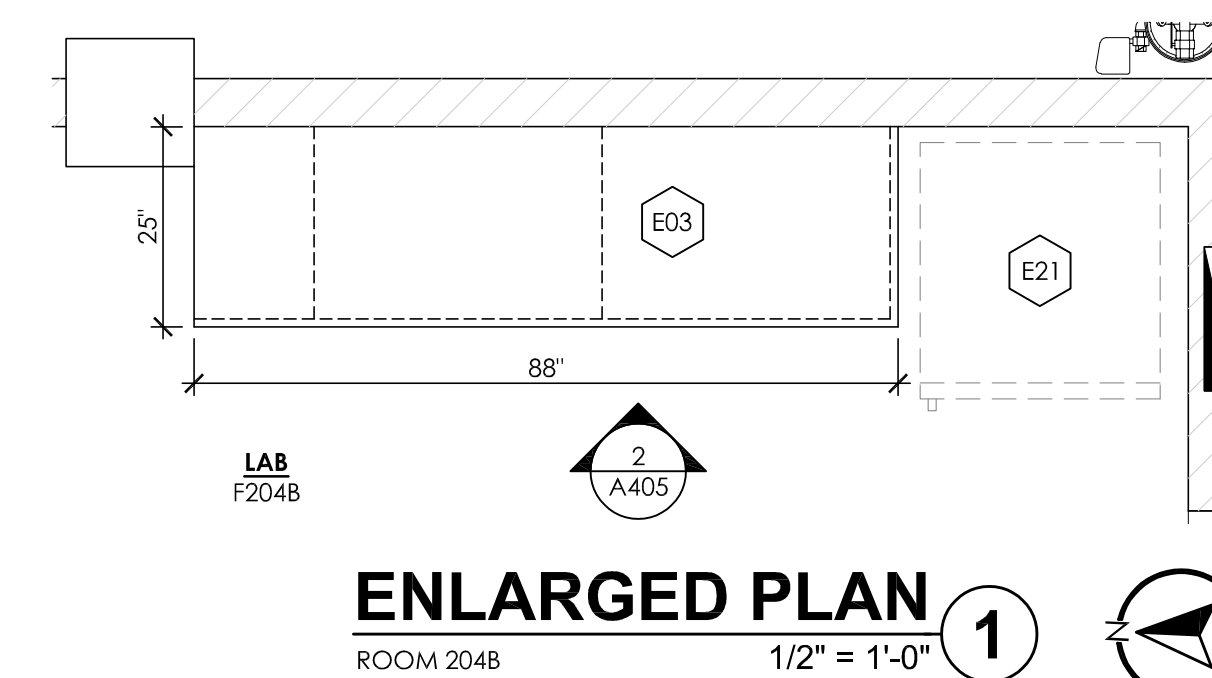
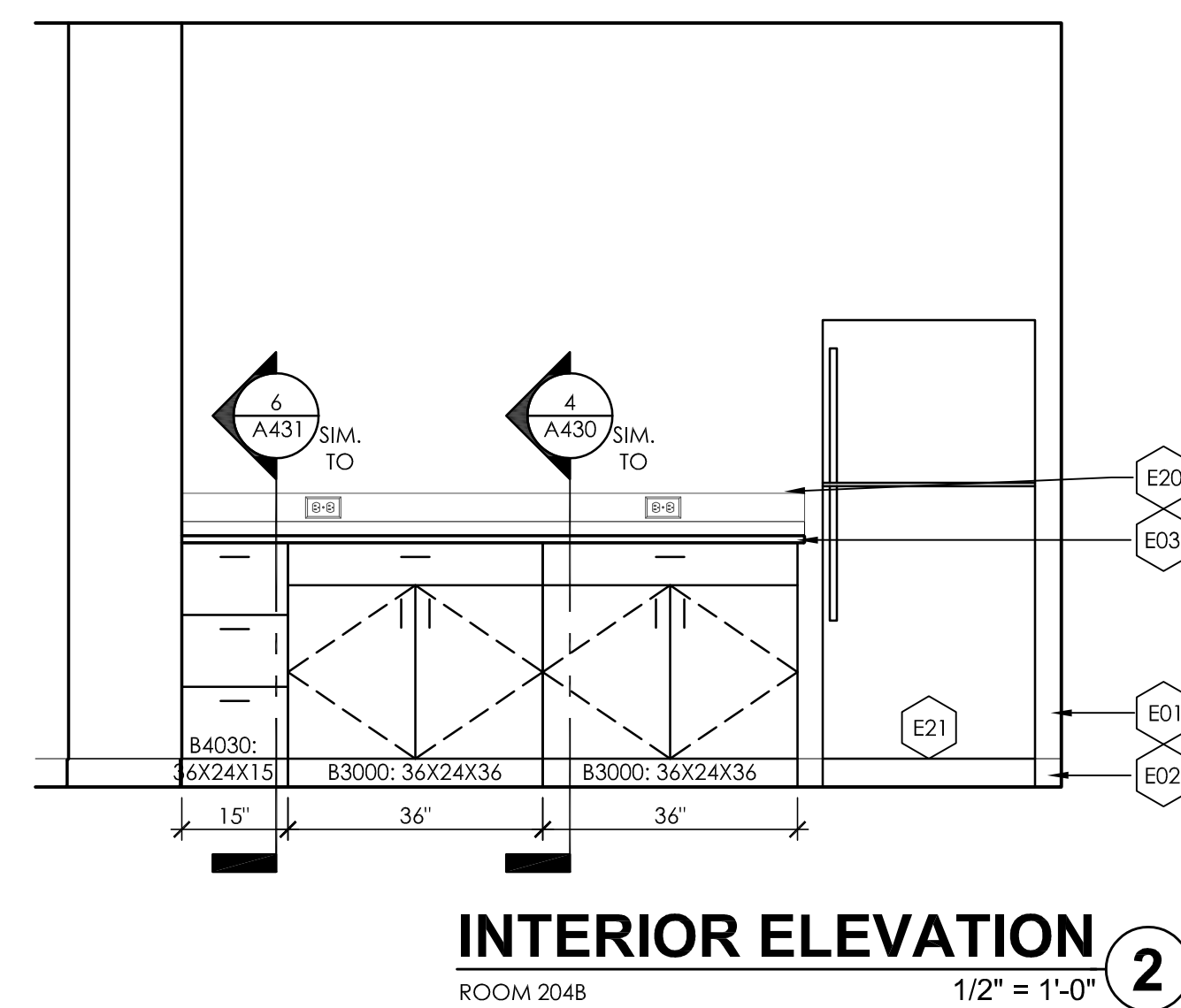
- B###: ###X###X### WIDTH
DEPTH
HEIGHT
MODEL #
- # DETAIL NUMBER
- A### SHEET NUMBER
- ### DOOR TAG
- E# RENOVATION NOTE TAG
- Transition Strip
- WALL TYPE

GENERAL NOTES - PLANS/ELEV

- EQUAL MANUFACTURER'S FOR CASEWORK: KEWAUNNE, NYCOM, INC.
- PLO1 (SEE FINISH SCHEDULE) FOR ALL CASEWORK FACES.

SHEET NOTES - PLANS & ELEV.

- E01 PT01.
- E02 EP01.
- E03 BLACK RESIN COUNTERTOP & BACKSPASH (WHERE REQUIRED).
- E04 GWB SOFFIT; PT02.
- E05 PAINT EXISTING/NEW DOOR &/OR WINDOW FRAME: PT02.
- E06 EXISTING WHITE BOARD. CLEAN AFTER INSTALL.
- E07 REUSE SHOWER/EYEWASH STATION FROM CLASSROOM 204B. PROVIDE NEW SHOWER PULL-HANDLE BE NO MORE THAN 48" A.F.F. IF UNABLE TO REUSE EXISTING PROVIDE (ADD ALTERNATE): **BASIS-OF-DESIGN: BRADLEY; COMBINATION DRENCH SHOWER & EYE/FACE WASH UNIT S19-312.**
- E08 EXISTING FUME HOOD UNIT.
- E09 I.T. CABINET. REMOVE ALL SHELVES.
- E10 RESIN SINK (CASE SYSTEMS: S5520) & FAUCET (CASE SYSTEMS: SF853).
- E11 ADA SINK (ELKAY ELUHAD211545PD) & FAUCET (CASE SYSTEMS: SF853).
- E12 SINK (CASE SYSTEMS: S5510) & FAUCET (CASE SYSTEMS: SF603).
- E13 SINK (CASE SYSTEMS: S5510) & FAUCET (CASE SYSTEMS: SF853).
- E14 GAS CHECK VALVE (CASE SYSTEMS: SF022).
- E15 POWER TOMBSTONE W/ USB.
- E16 PAPER TOWEL DISPENSER.
- E17 SOAP DISPENSER.
- E18 FIRE PULL STATION.
- E19 DRYING RACK (OWNER PROVIDED & INSTALLED).
- E20 METAL POWER RACEWAY.
- E21 FRIDGE &/OR FREEZER (OWNER PROVIDED & INSTALLED).
- E22 GAS SHUT OFF (SEE PLUMBING).
- E23 TEACHING STATION.
- E24 EXISTING FIRE EXTINGUISHER.
- E25 SPEAKER (OWNER PROVIDED & INSTALLED).
- E26 DUPLEX OUTLET & DATA OUTLET.
- E27 PAINT EXTERIOR SIDE OF EXTERIOR DOOR; PT03.
- E28 TV - OWNER PROVIDED & INSTALLED.
- E29 EXISTING GAS SHUT-OFF.



BASIS-OF-DESIGN: CASE SYSTEMS



PIEDMONT COMMUNITY COLLEGE
1715 COLLEGE DRIVE
ROXBORO, NORTH CAROLINA 27573
SCO ID#: 23-26709-01A

REVISIONS:

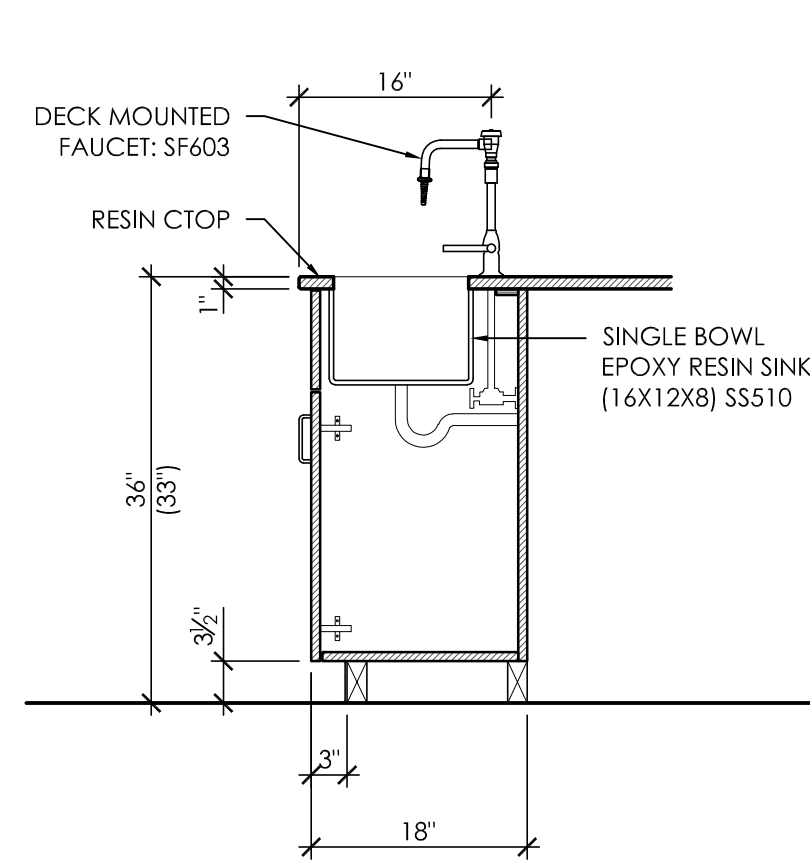
#	DESCRIPTION:	DATE

SHEET NAME:
CASEWORK SECTIONS

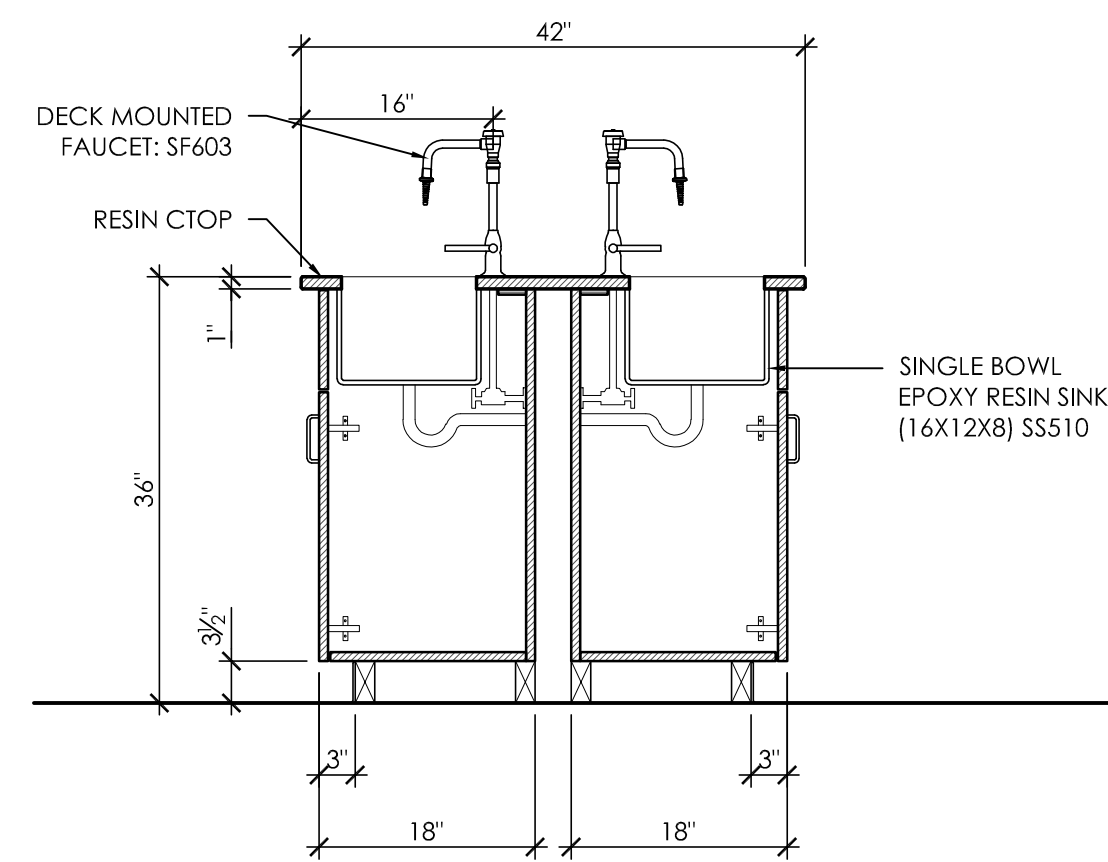
PHASE:
BID SET

ISSUE DATE: **19 SEP 2024**
PROJECT #: **23030**
DRAWN BY: **KNG**

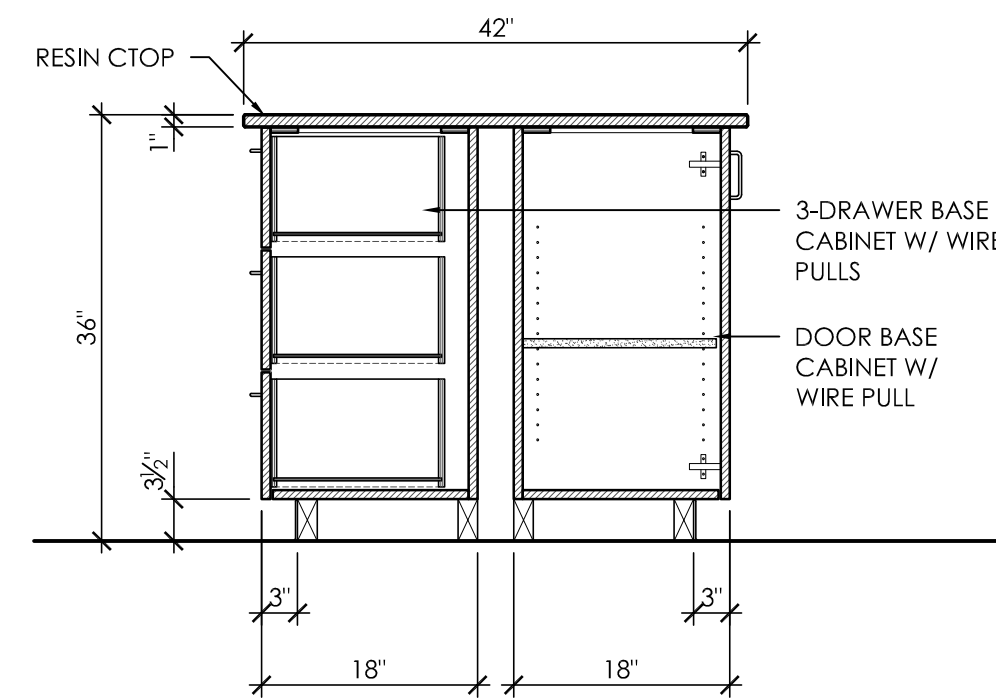
SHEET NUMBER
A430



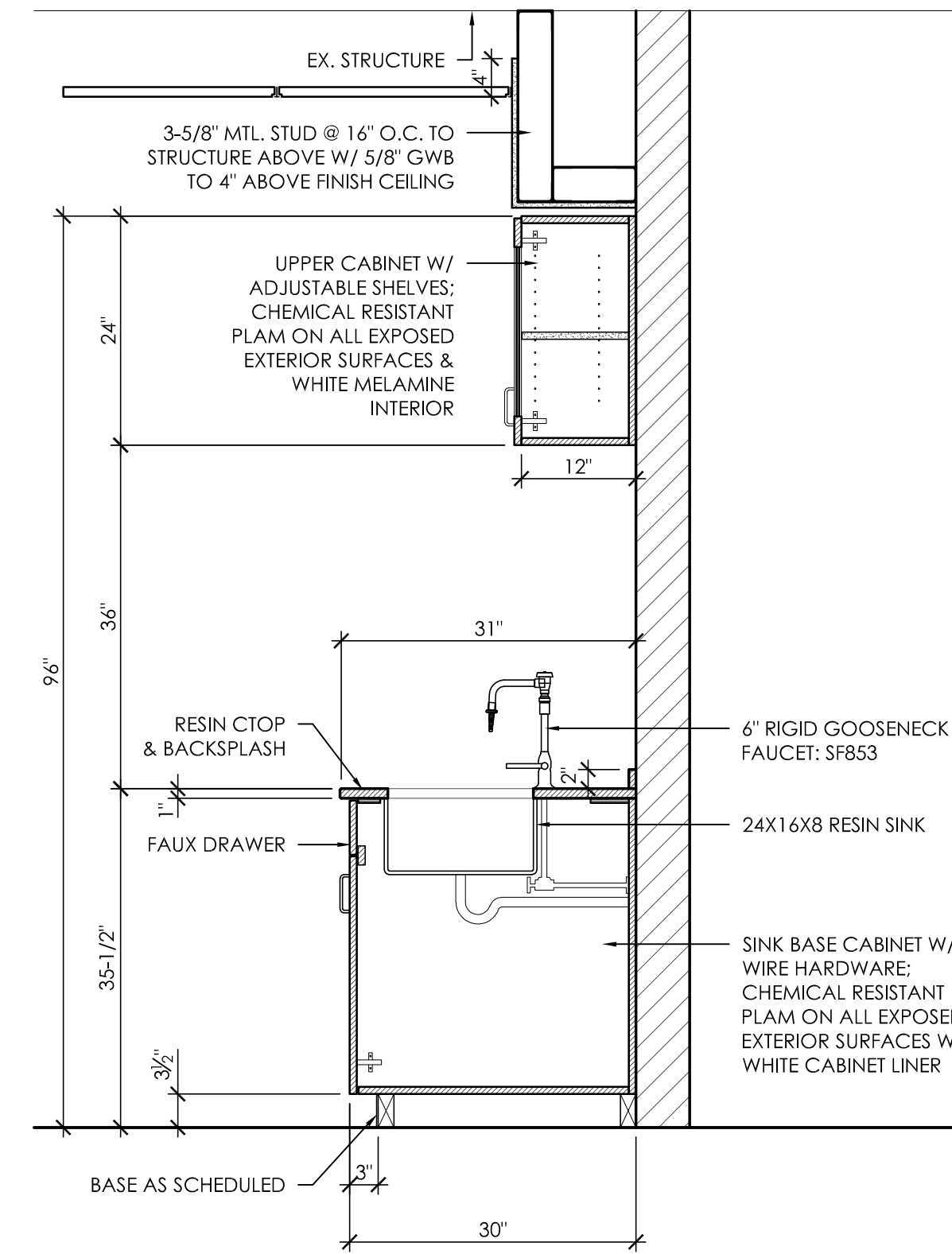
CASEWORK SECTION 10
3/4" = 1'-0"



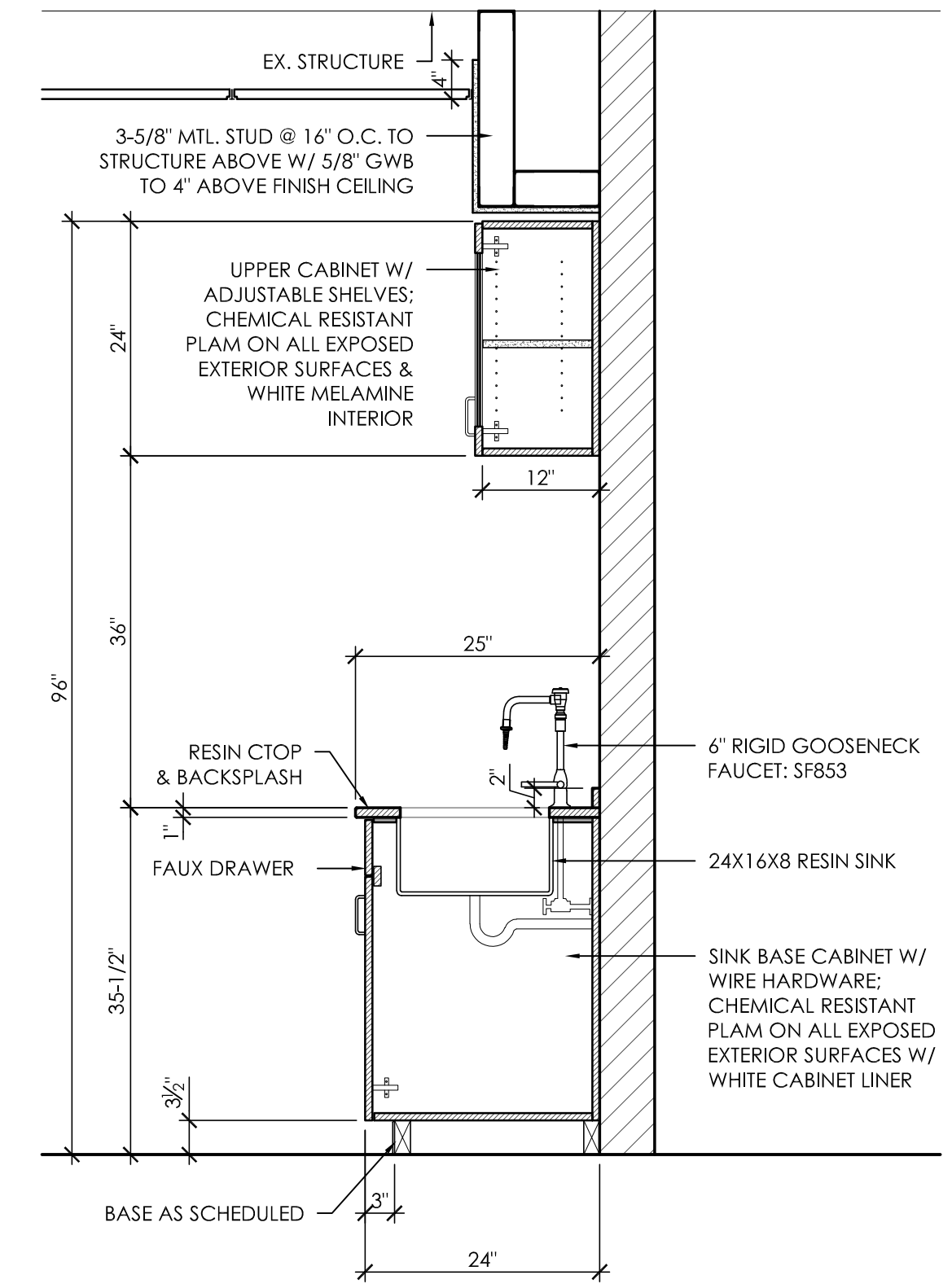
CASEWORK SECTION 9
3/4" = 1'-0"



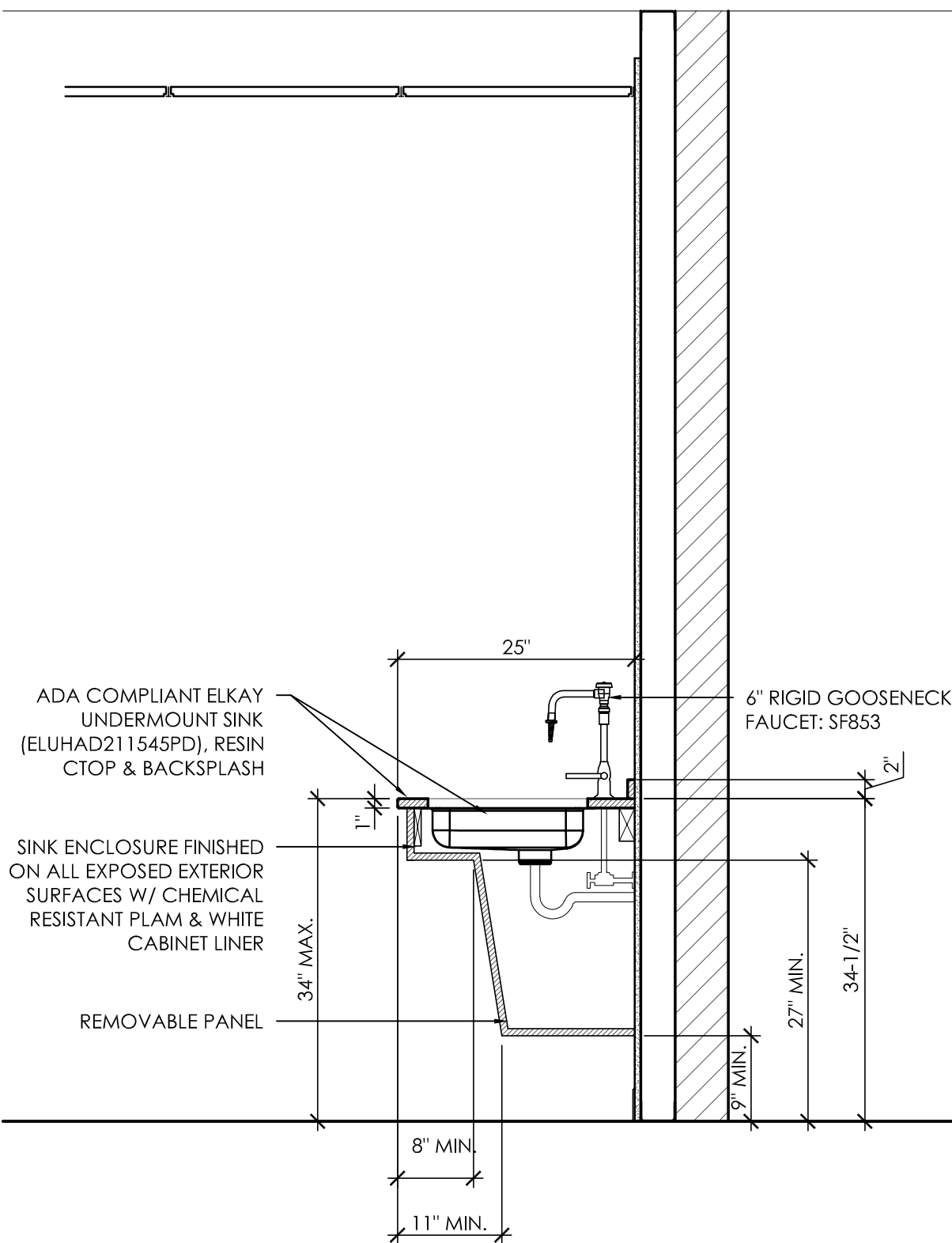
CASEWORK SECTION 8
3/4" = 1'-0"



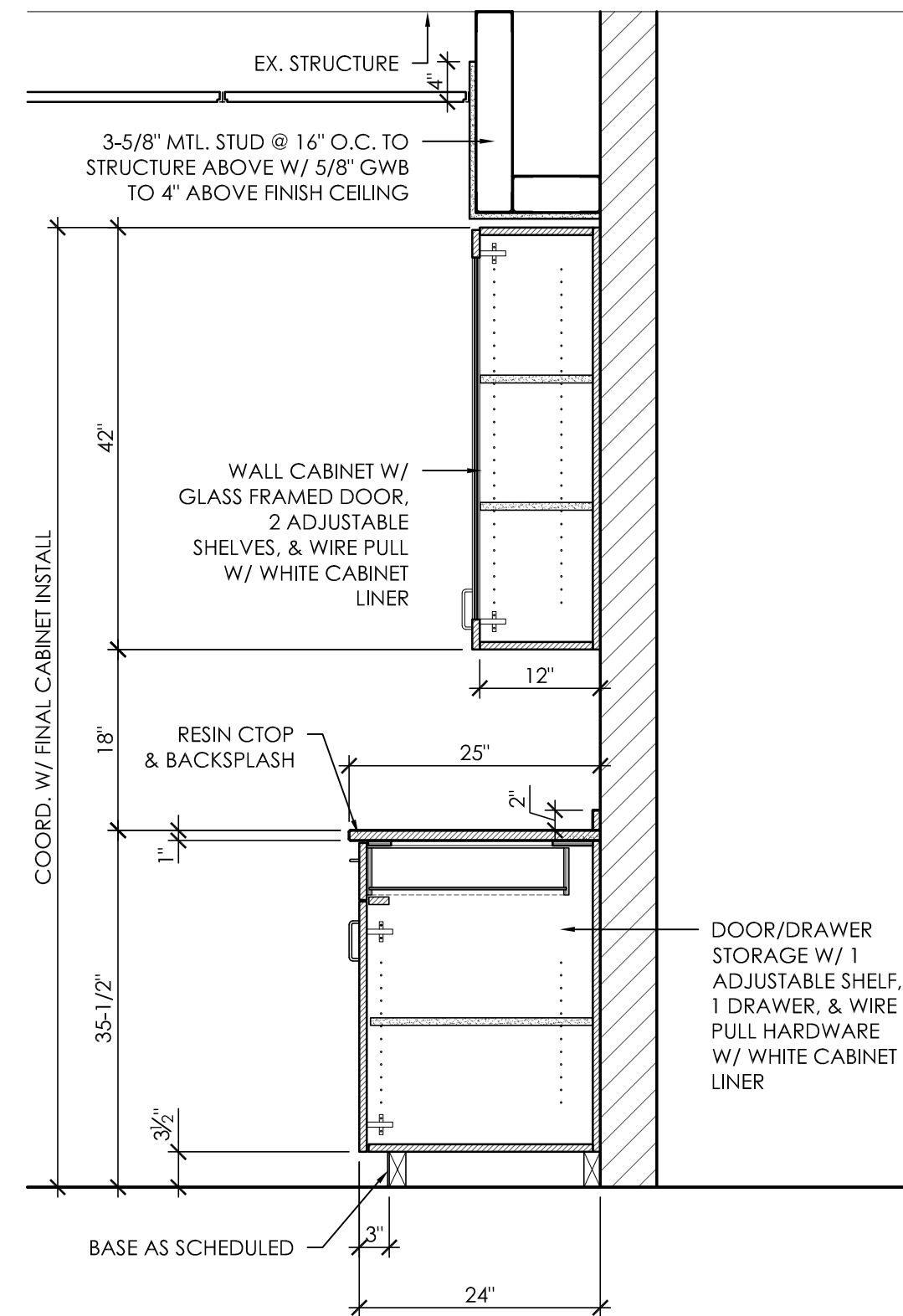
CASEWORK SECTION 7
3/4" = 1'-0"



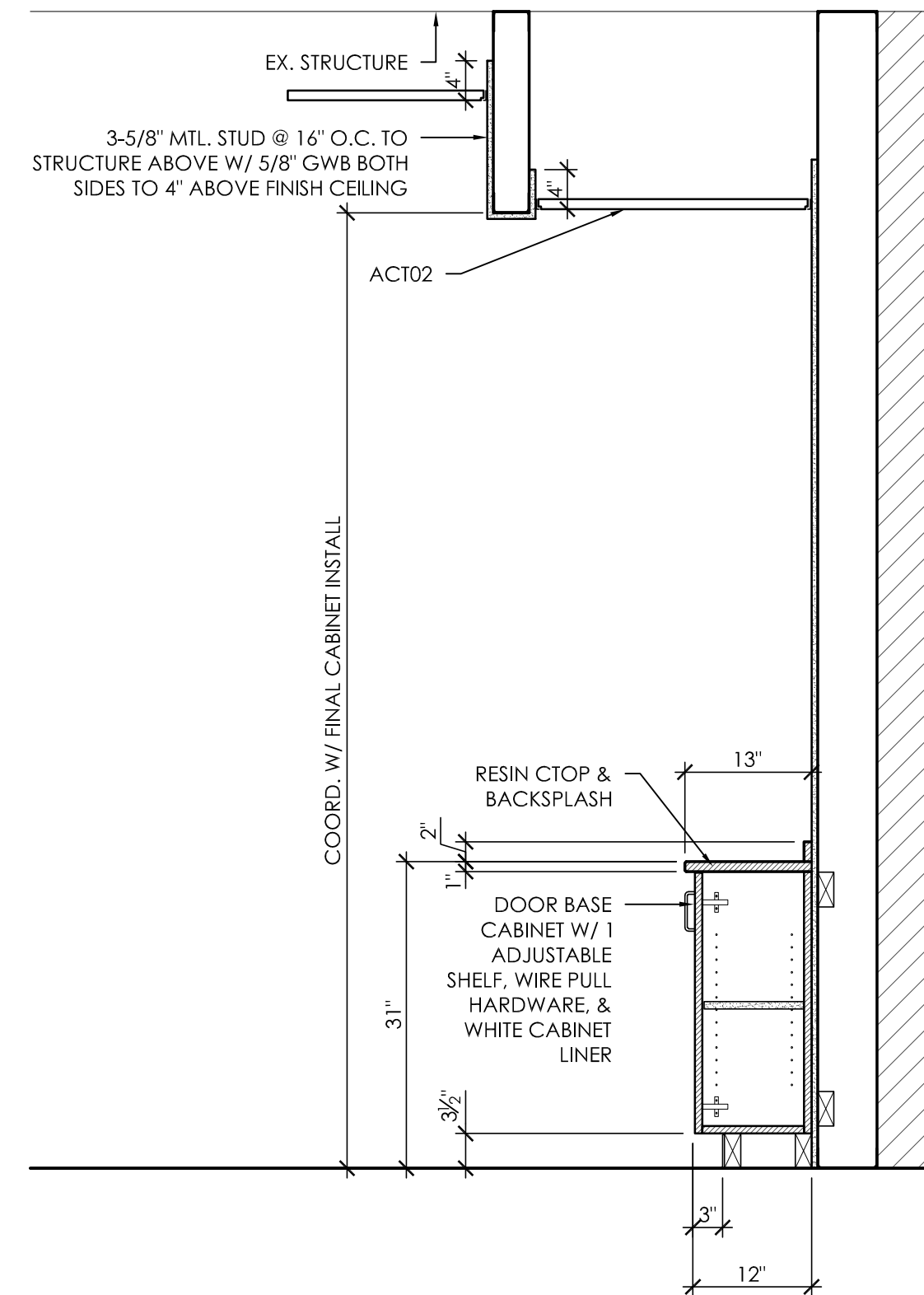
CASEWORK SECTION 6
3/4" = 1'-0"



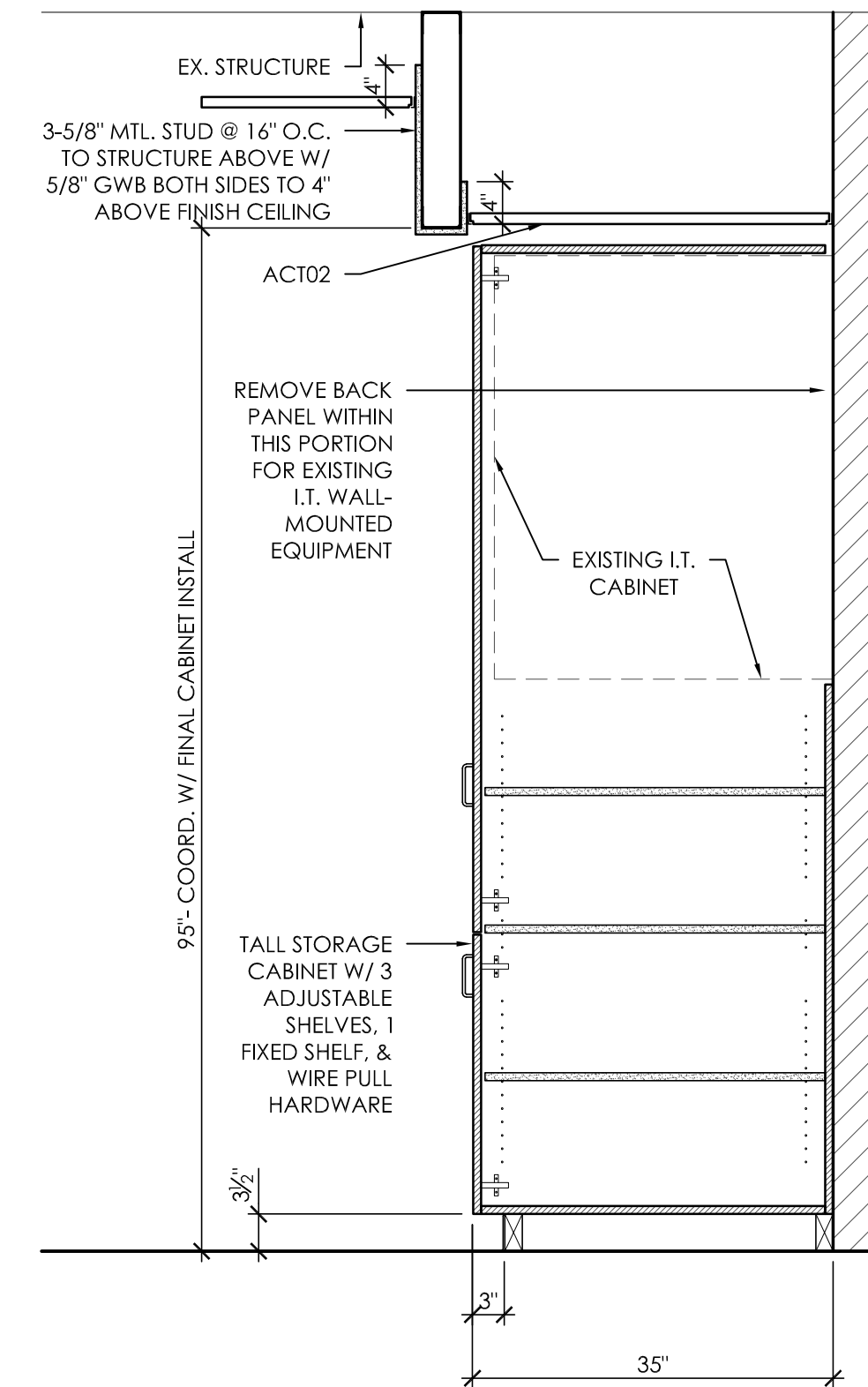
CASEWORK SECTION 5
3/4" = 1'-0"



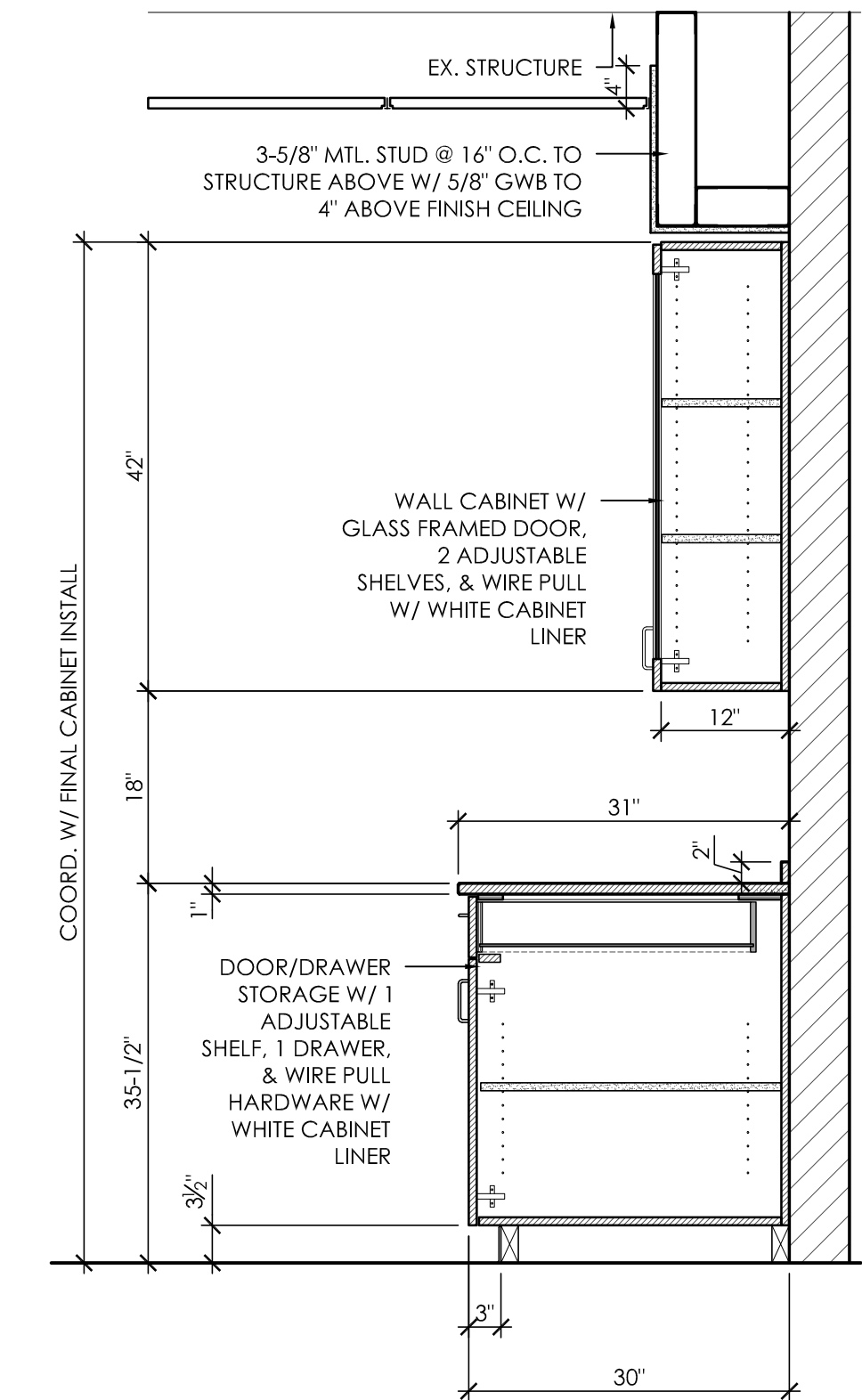
CASEWORK SECTION 4
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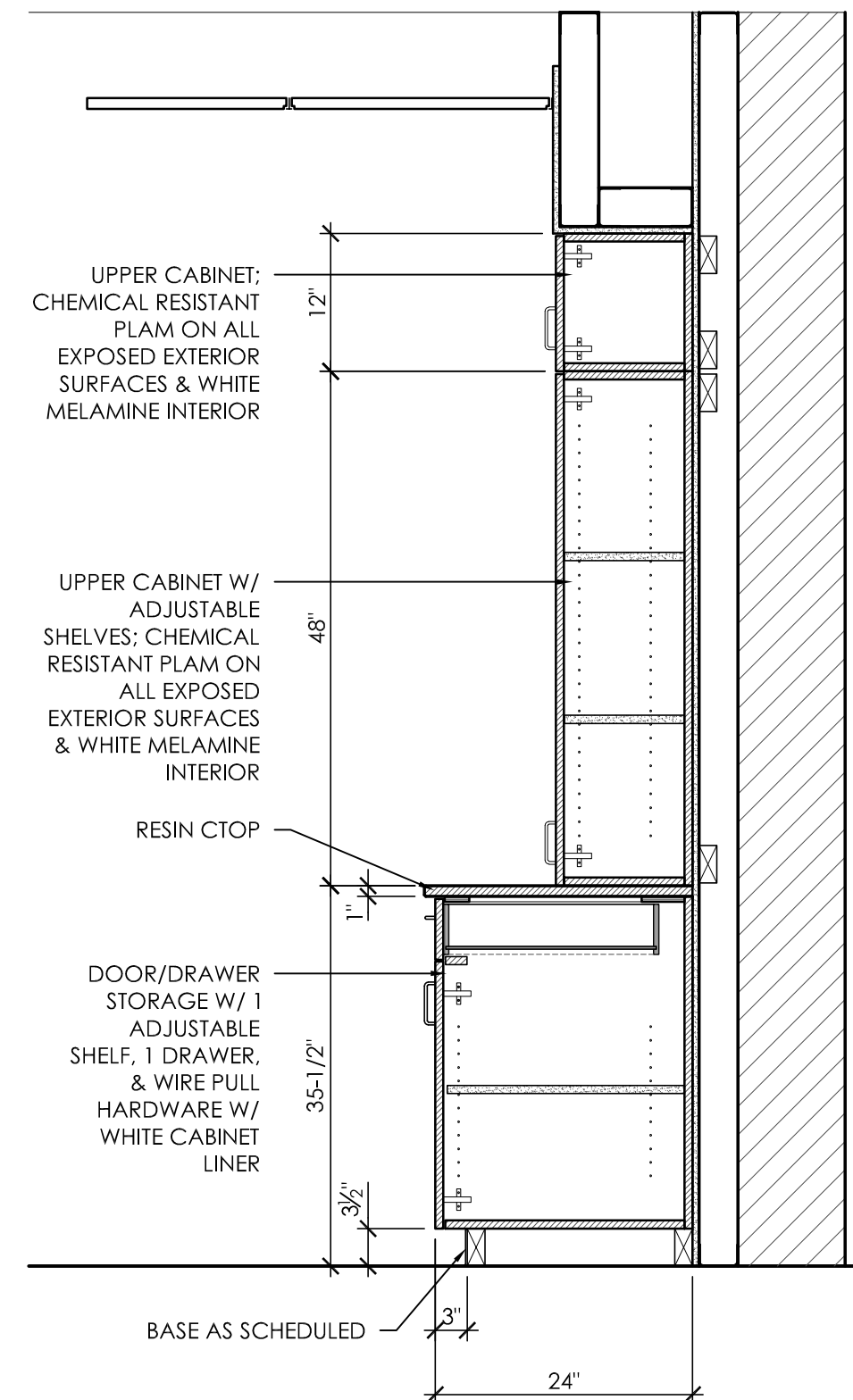
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3/4" = 1'-0"



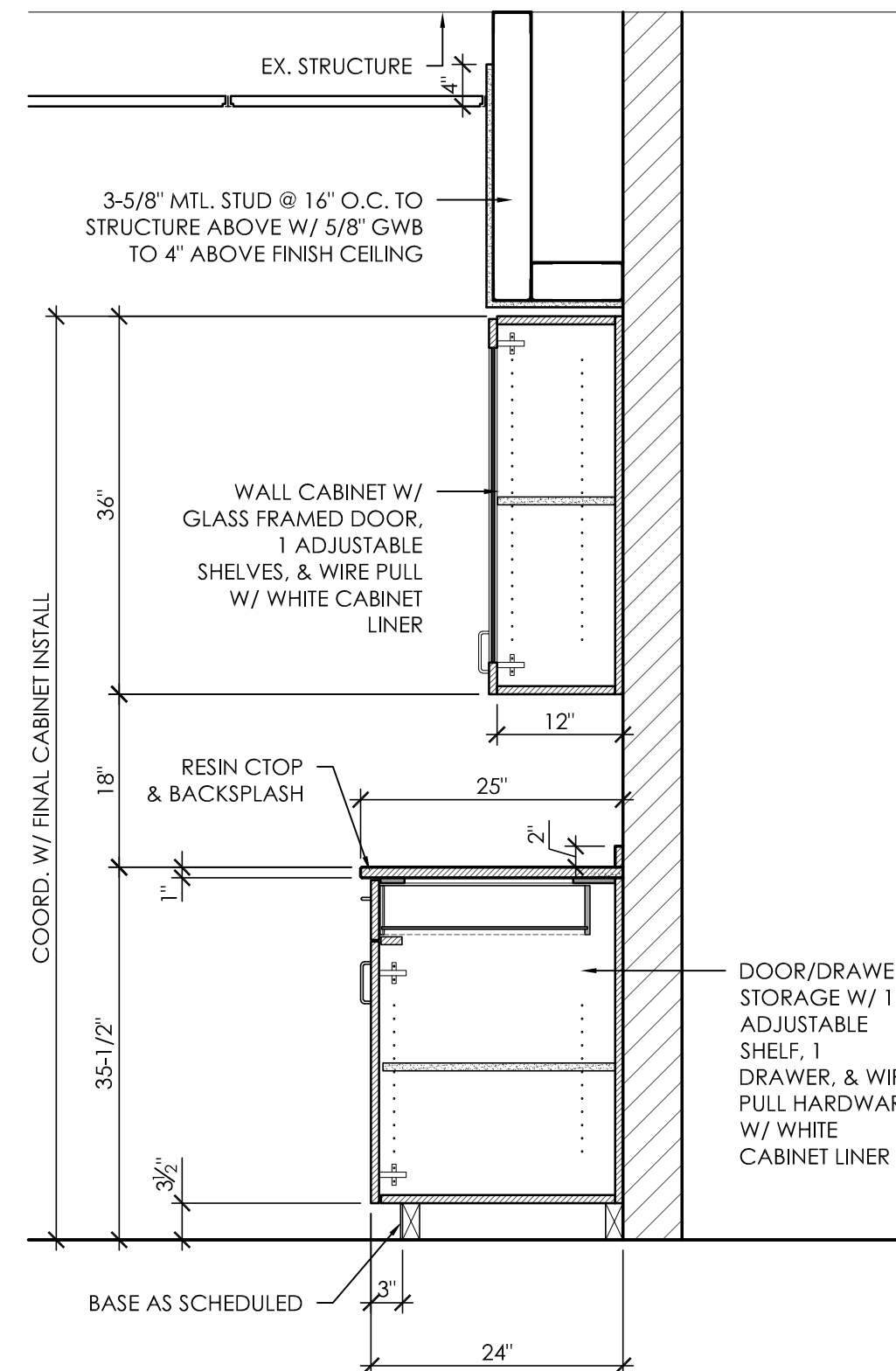
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3/4" = 1'-0"



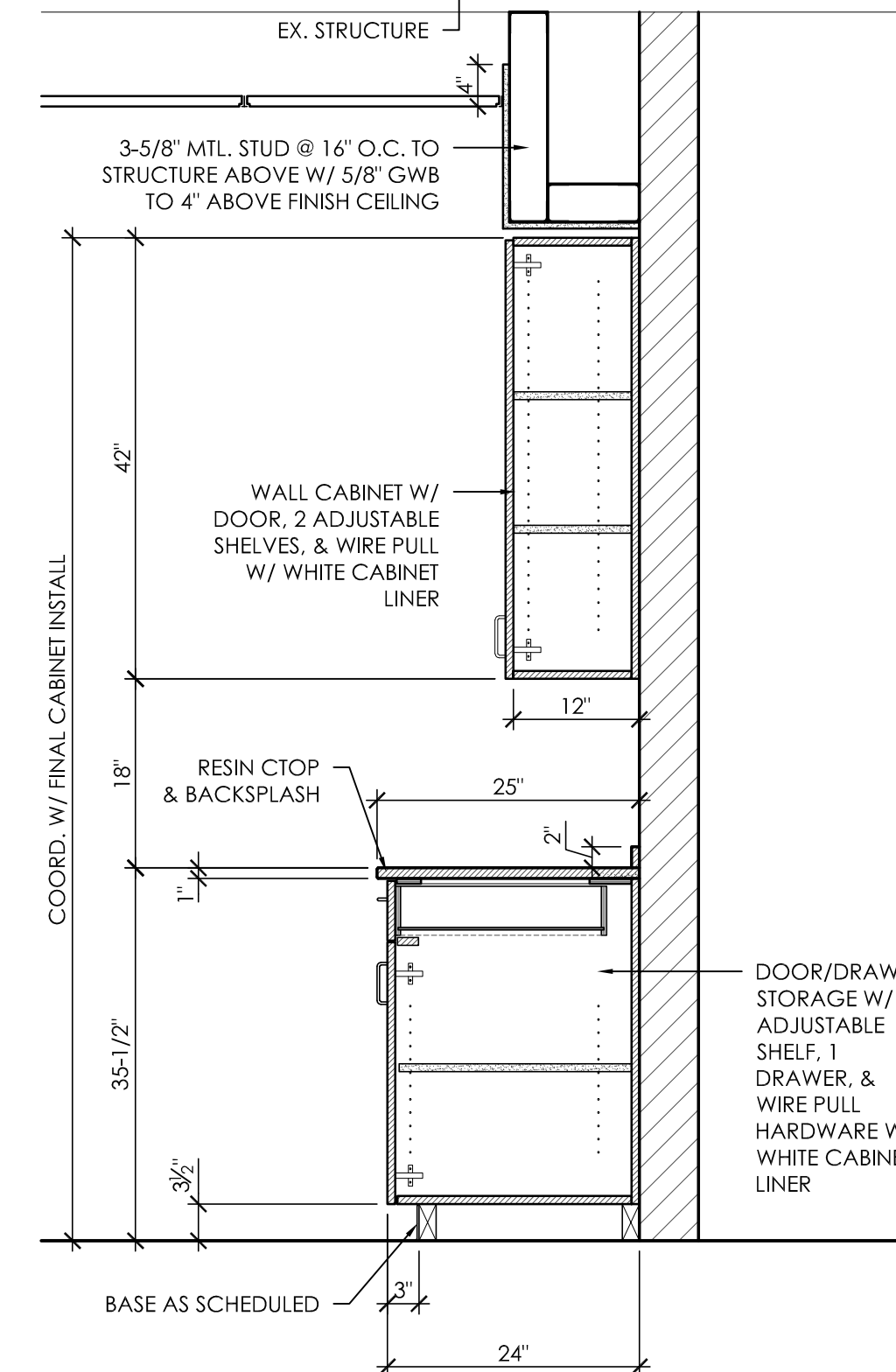
CASEWORK SECTION 1
3/4" = 1'-0"



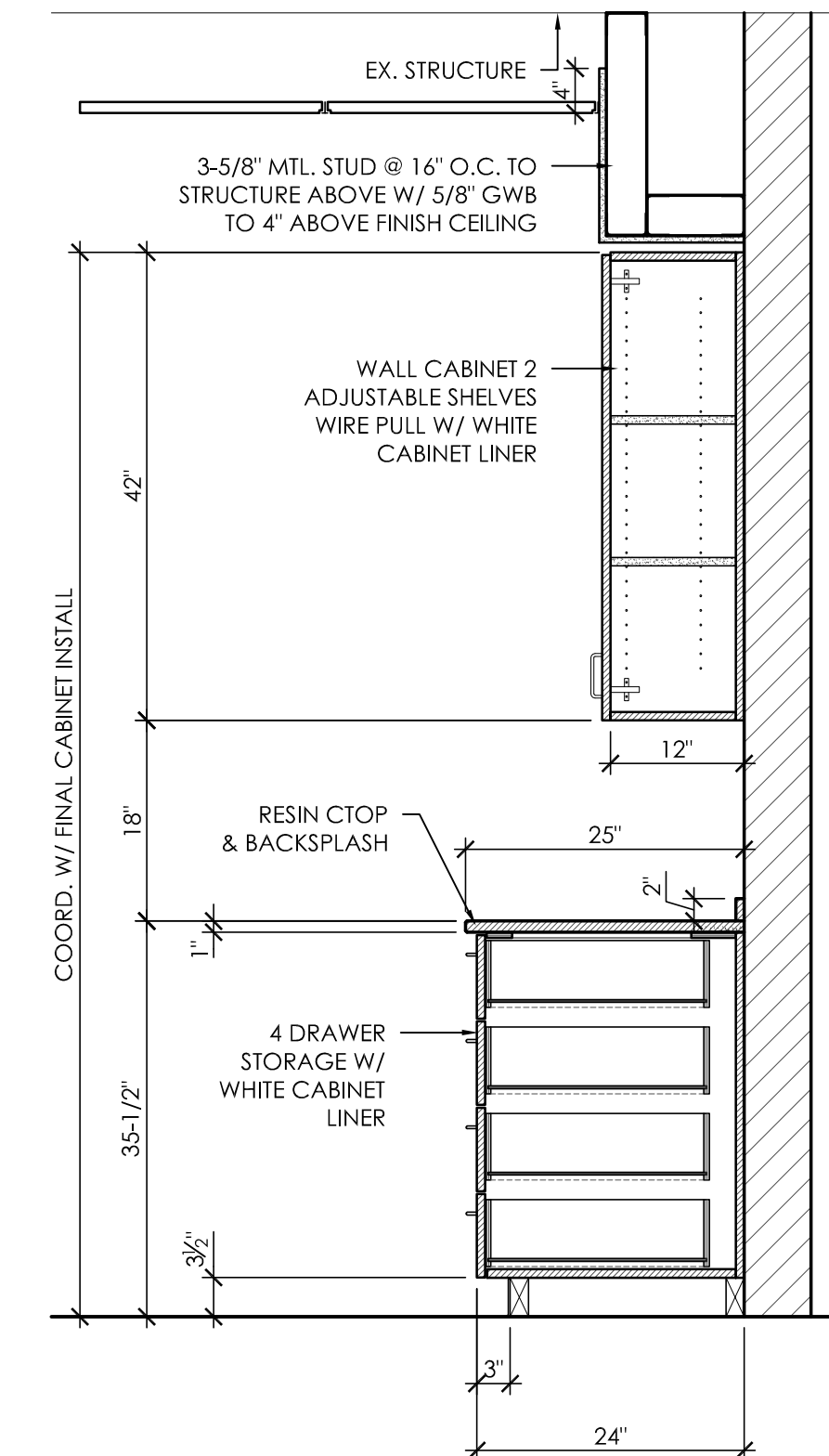
CASEWORK SECTION 10
3/4" = 1'-0"



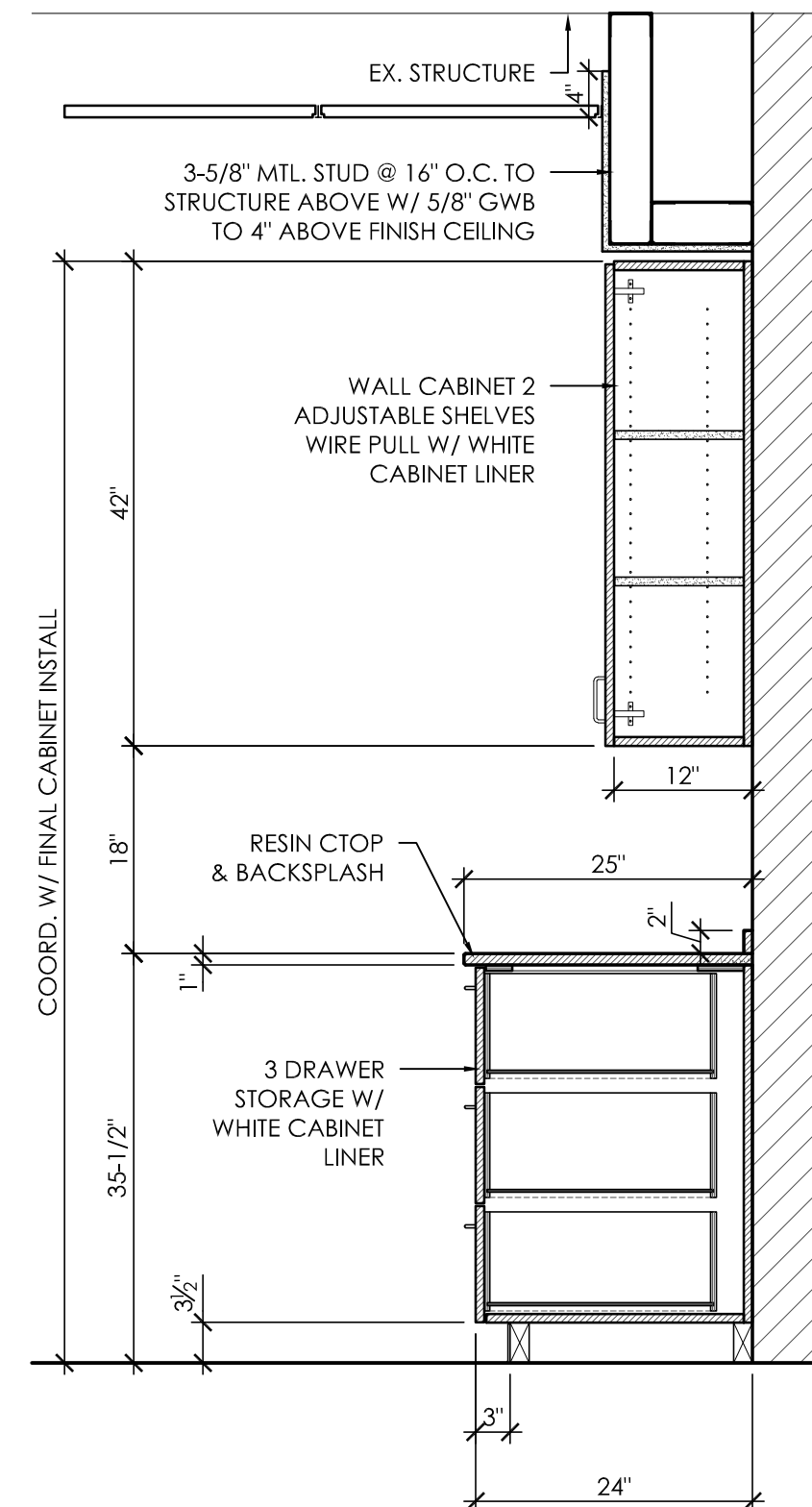
CASEWORK SECTION 9
3/4" = 1'-0"



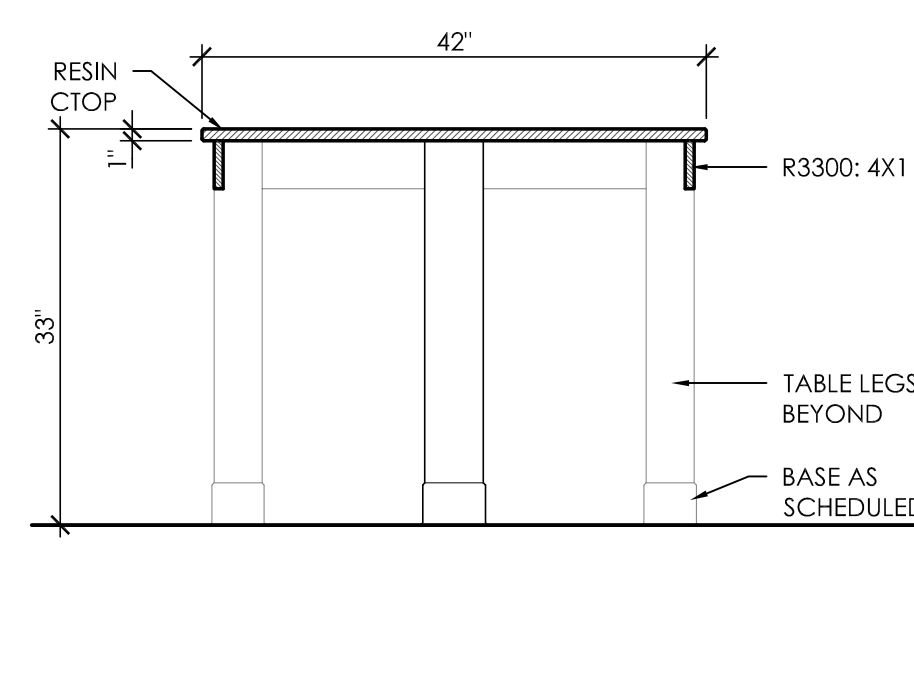
CASEWORK SECTION 8
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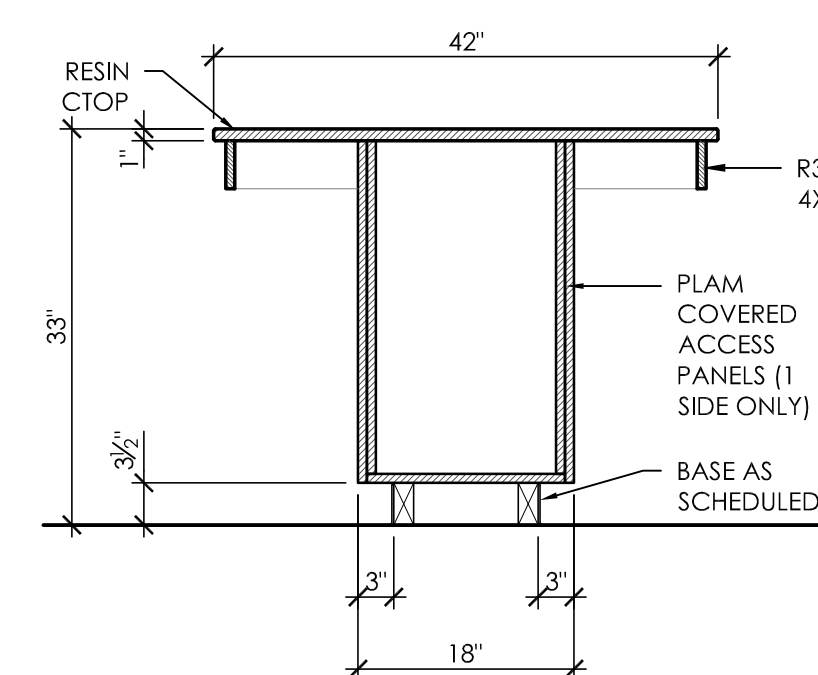
CASEWORK SECTION 7
3/4" = 1'-0"



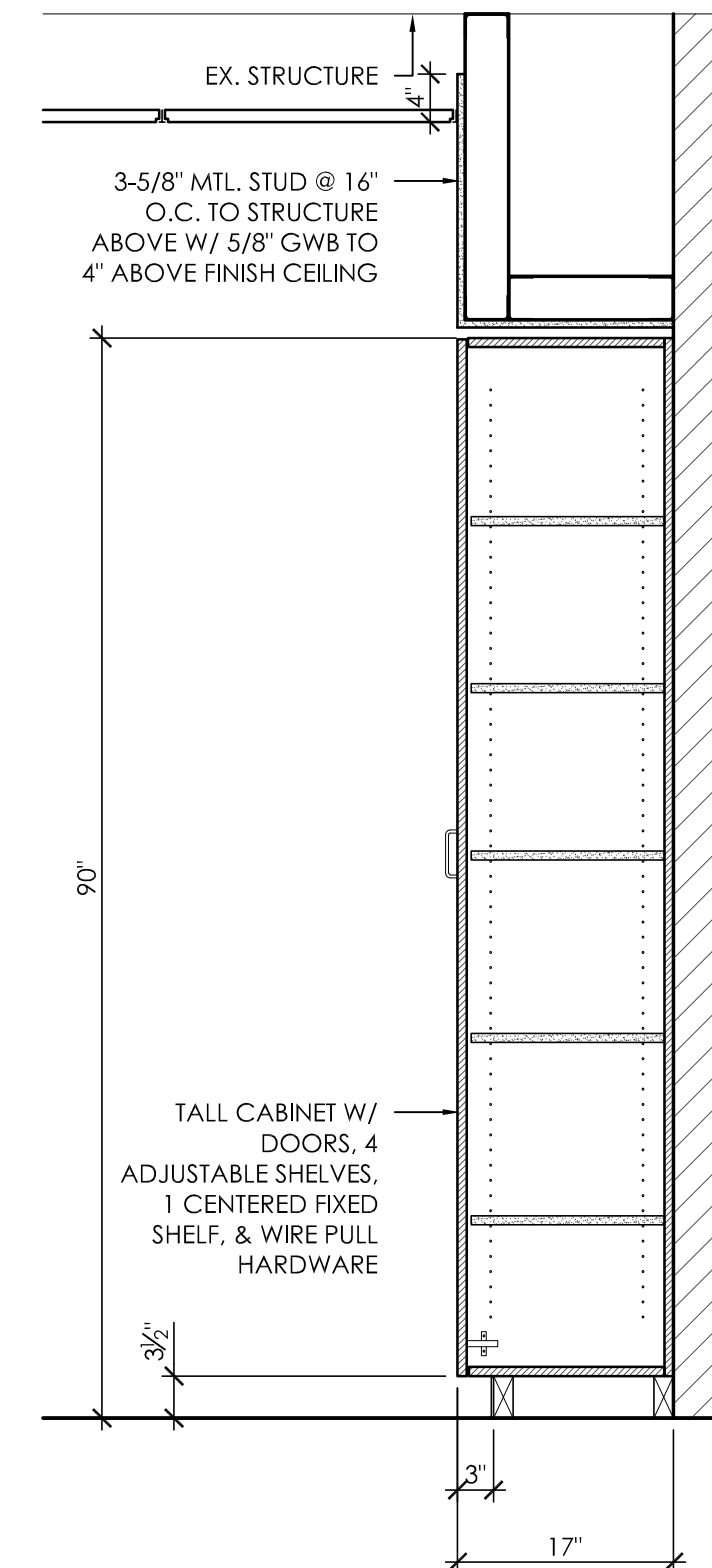
CASEWORK SECTION 6
3/4" = 1'-0"



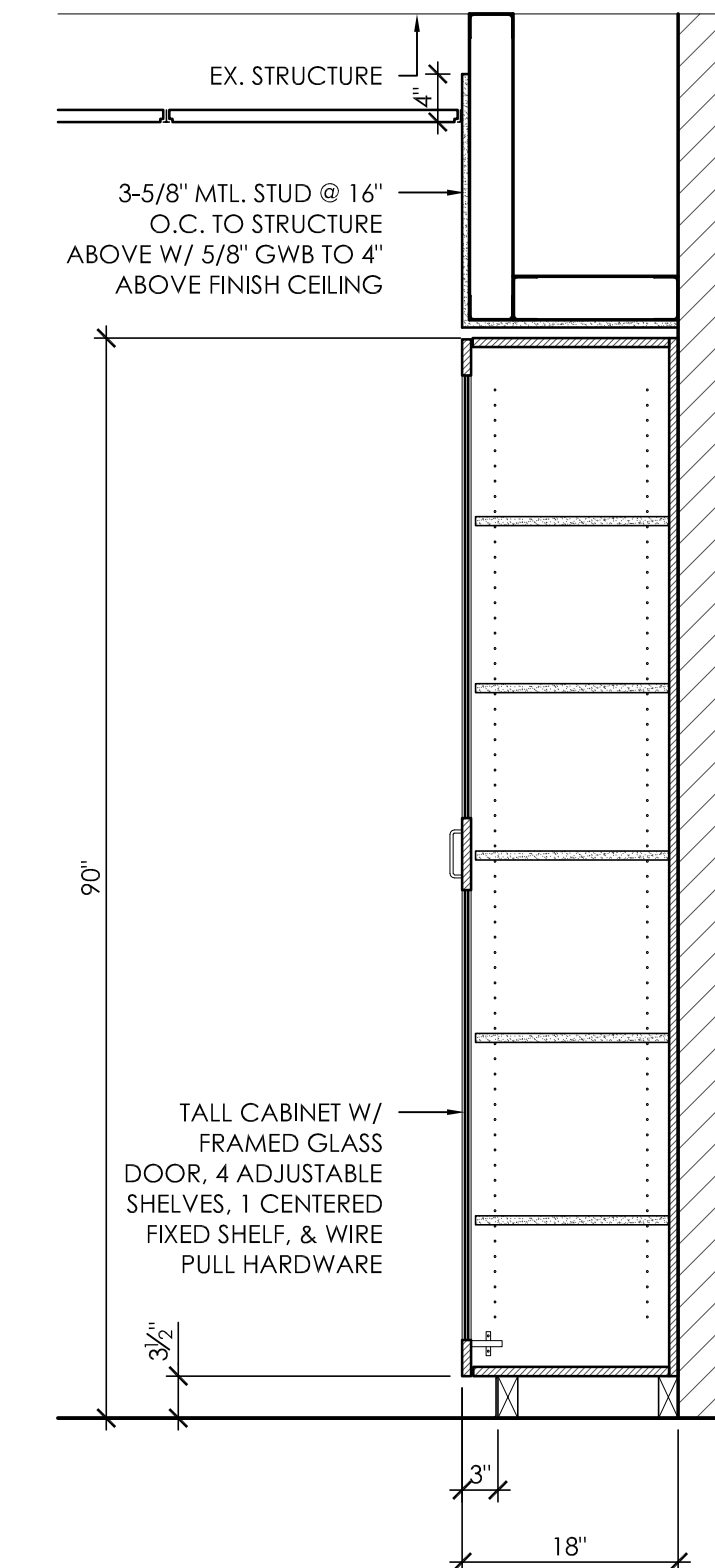
CASEWORK SECTION 5
3/4" = 1'-0"



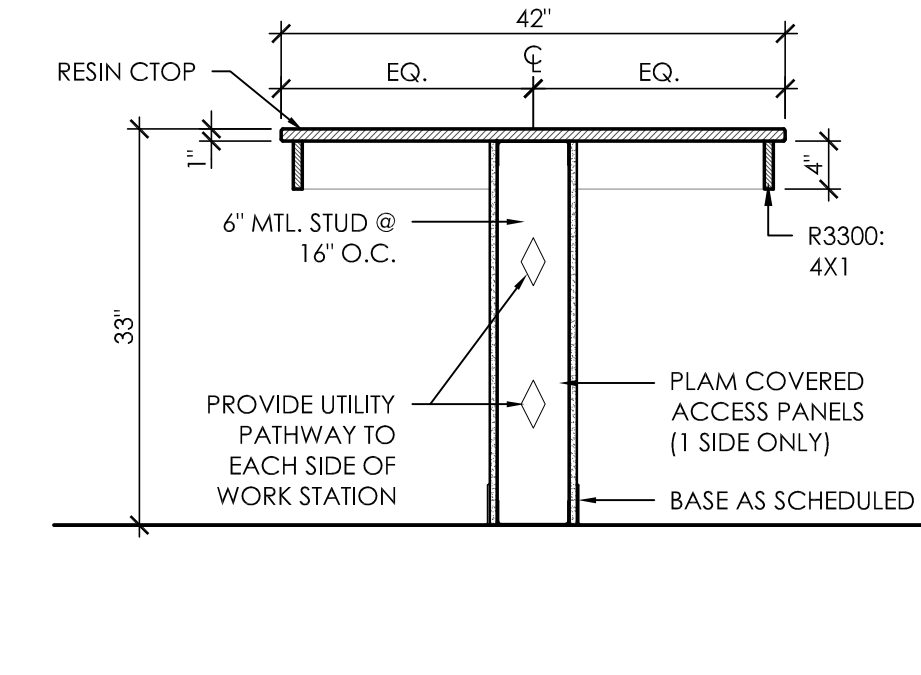
CASEWORK SECTION 4
3/4" = 1'-0"



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



CASEWORK SECTION 2
3/4" = 1'-0"



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

PIEDMONT COMMUNITY COLLEGE
1715 COLLEGE DRIVE
ROXBORO, NORTH CAROLINA 27573
SCO ID#: 23-26709-01A

REVISIONS:

#	DESCRIPTION:	DATE

SHEET NAME:
CASEWORK SECTIONS

PHASE:
BID SET

ISSUE DATE: **19 SEP 2024**
PROJECT #: **23030**
DRAWN BY: **KNG**

SHEET NUMBER
A431

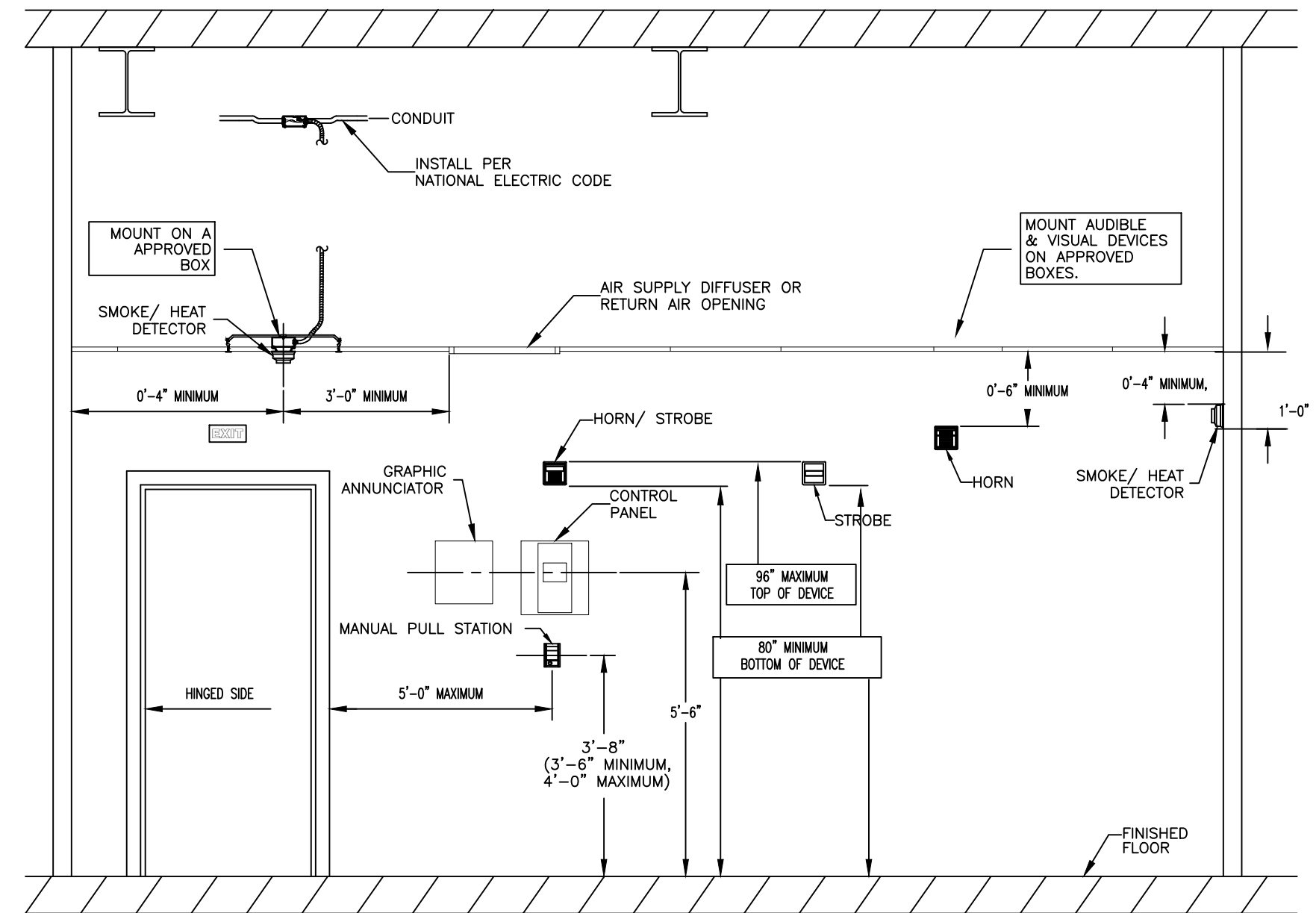
FIRE ALARM SYSTEM INPUT/OUTPUT MATRIX

SYSTEM INPUTS	SYSTEM OUTPUTS																										
	FACP ANNUNCIATION						NOTIFICATION						REQUIRED FIRE SAFETY CONTROL														
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	
1 FIRE ALARM SYSTEM AC POWER FAILURE																											
2 FIRE ALARM SYSTEM LOW BATTERY																											
3 OPEN CIRCUIT																											
4 GROUND FAULT																											
5 NOTIFICATION APPLIANCE CIRCUIT SHORT																											
6 BUILDING MANUAL PULL STATIONS																											
7 CORRIDOR SMOKE DETECTORS																											
8 AREA SMOKE DETECTORS																											
9 HVAC AIR DUCT SMOKE DETECTORS																											
10 AREA HEAT DETECTORS																											
11 HOOD OR ROOM FIRE SUPPRESSION SYSTEM ALARM																											
12 SPRINKLER TAMPER SWITCH																											
13 SPRINKLER WATER FLOW IN BUILDING																											
14 SPRINKLER WATER FLOW IN ELEV EQUIP RM OR SHAFT																											
15 ELEV EQUIP RM AREA SMOKE DETECTOR																											
16 ELEV SHAFT AND ELEV EQUIP RM HEAT DETECTORS																											
17 ELEV LOBBY SMOKE DETECTORS - UPPER FLOORS																											
18 ELEV LOBBY SMOKE DETECTOR - RECALL FLOOR																											
19 ELEV CONTROLLER POWER SHUNT TRIP STATUS																											
20 FIRE PUMP POWER FAILURE/PHASE REVERSAL																											
21 FIRE PUMP RUNNING																											
22 FIRE PUMP SYSTEM NOT IN AUTOMATIC																											
23 LEGALLY REQUIRED GENERATOR SYSTEM LOW FUEL																											
24 LEGALLY REQUIRED GENERATOR NOT IN AUTOMATIC																											
25 AREA OF REFUGE TWO-WAY COMMUNICATIONS STATUS																											
26 -																											
27 -																											

ABBREVIATIONS

AFC ABOVE FINISHED CEILING	NA NOT APPLICABLE
AFF ABOVE FINISHED FLOOR	NAC NOTIFICATION APPLIANCE CIRCUIT
AFC ABOVE FINISHED GRADE	NCSCB NORTH CAROLINA STATE BUILDING CODE
AHJ AUTHORITY HAVING JURISDICTION	NEC NATIONAL ELECTRICAL CODE
BLDG BUILDING	NEMA NATIONAL ELECTRICAL MANUFACTURER'S ASSOC.
C CONDUIT	NFPA NATIONAL FIRE PROTECTION ASSOCIATION
CLG CEILING	NTC NOT IN CONTRACT
EC ELECTRICAL CONTRACTOR	NTS NOT TO SCALE
EM EMERGENCY	MC MECHANICAL CONTRACTOR
EMT ELECTRICAL METALLIC TUBING	R RELOCATED
EX EXISTING TO REMAIN	SLC SIGNAL LINE CIRCUIT
FA FIRE ALARM	UL UNDERWRITER'S LABORATORIES
FAA FIRE ALARM ANNUNCIATOR	UN UNLESS OTHERWISE NOTED
FACP FIRE ALARM CONTROL PANEL	W WIRE
GC GENERAL CONTRACTOR	W/ WITH
G GROUND	W/O WITHOUT
IMC INTERMEDIATE METAL CONDUIT	WP WEATHERPROOF
JB JUNCTION BOX	

NFPA 72 AND ADA DEVICE INSTALLATION REQUIREMENTS



2 FIRE ALARM DEVICE MOUNTING DETAIL
FA001 SCALE: NTS

FIRE ALARM GENERAL NOTES

- AS USED ON THESE DOCUMENTS, THE WORD "PROVIDE" SHALL MEAN TO FURNISH AND INSTALL THE ITEM OR EQUIPMENT AND MAKE THE FINAL CONNECTION AS REQUIRED.
- FIRE ALARM CONTRACTOR TO ENSURE CANDELA RATINGS OF EXISTING DEVICES MATCH THOSE INDICATED. ADJUST OR REPLACE EXISTING DEVICES AS REQUIRED TO ACHIEVE PROPER RATINGS AND COVERAGE. ALL FIRE ALARM NOTIFICATION DEVICES SHALL SYNC.
- A SOUND PRESSURE LEVEL OF 75db or 15db ABOVE AVERAGE AMBIENT NOISE LEVEL, WHICHEVER IS GREATER, IS REQUIRED IN ALL ROOMS (WITH DOORS CLOSED). ADJUST HORN OUTPUT LEVELS TO MEET THIS REQUIREMENT PRIOR TO FIRE MARSHALL INSPECTION.
- EXISTING NOTIFICATION DEVICES SHALL BE FIELD INSPECTED BY FIRE ALARM CONTRACTOR TO ENSURE SYNCHRONIZATION CAPABILITY PRIOR TO PRICING. EXISTING DEVICES SHALL BE REMOVED & REPLACED AS REQUIRED.

FIRE ALARM RISER NOTES

- PROVIDE "ADDRESSABLE" FIRE ALARM SYSTEM AS SHOWN. ALL WORK SHALL BE IN ACCORDANCE WITH NFPA 72. ALL WIRING SHALL BE SIZED AS REQUIRED BY THE MANUFACTURER.
- SEE FIRE ALARM PLAN FOR LOCATION AND NUMBER OF DEVICES. THE DRAWINGS INDICATE THE SUGGESTED LOCATIONS FOR INITIATING, NOTIFICATION, AND OTHER MISCELLANEOUS DEVICES INDIRECTLY CONNECTED TO THE FIRE ALARM SYSTEM. MISCELLANEOUS REQUIREMENTS ARE FOR THE GENERAL INFORMATION OF THE CONTRACTOR EXACT LOCATIONS, INSTALLATIONS, AND CONNECTIONS SHALL BE PER FIRE ALARM MANUFACTURERS INSTRUCTIONS AND DIRECTIONS FOR A COMPLETED SYSTEM. CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT, PULL BOXES, JUNCTION BOXES, AND MISCELLANEOUS REQUIREMENTS AS REQUIRED BY FIRE ALARM EQUIPMENT SUPPLIER.
- PROVIDE BATTERY CALCULATIONS FOR THE DEVICES REQUIRED. ALLOW 25% ADDITIONAL CAPACITY FOR FUTURE DEVICES.
- FIRE SEAL ALL CONDUIT PENETRATIONS.
- PROVIDE GRAPHIC ANNUNCIATOR CHART AT THE MAIN LOBBY TO INDICATE ALL DEVICE POINT ASSIGNMENTS AND LOCATIONS.
- ALL COMPONENTS SHALL BE COMPATIBLE. PROVIDE ALL NECESSARY CONTROL WIRING AND CONDUIT PER MANUFACTURERS REQUIREMENTS.
- INITIATION OF FIRE ALARM SHALL CAUSE ALL AIR HANDLING UNITS TO SHUT DOWN.
- ALL DEVICES/SUBMITTALS SHALL BE APPROVED BY THE FIRE MARSHALL PRIOR TO ORDERING/INSTALLATION.
- COORDINATE WITH ELEVATOR CONTRACTOR/GC AND PROVIDE ALL CONTROL MODULES/RELAYS TO ACCOMPLISH ELEVATOR RECALL.
- COORDINATE QUANTITY AND LOCATION OF TAMPER AND FLOW SWITCHES WITH SPRINKLER CONTRACTOR.
- COORDINATE QUANTITY, LOCATION AND VOLTAGE OF FIRE DAMPERS WITH MECHANICAL CONTRACTOR. THE FIRE ALARM INSTALLER SHALL BE RESPONSIBLE FOR ALL WIRING REQUIRED TO FACILITATE DAMPER CONTROL FUNCTIONS AS INITIATED BY THE FACP.

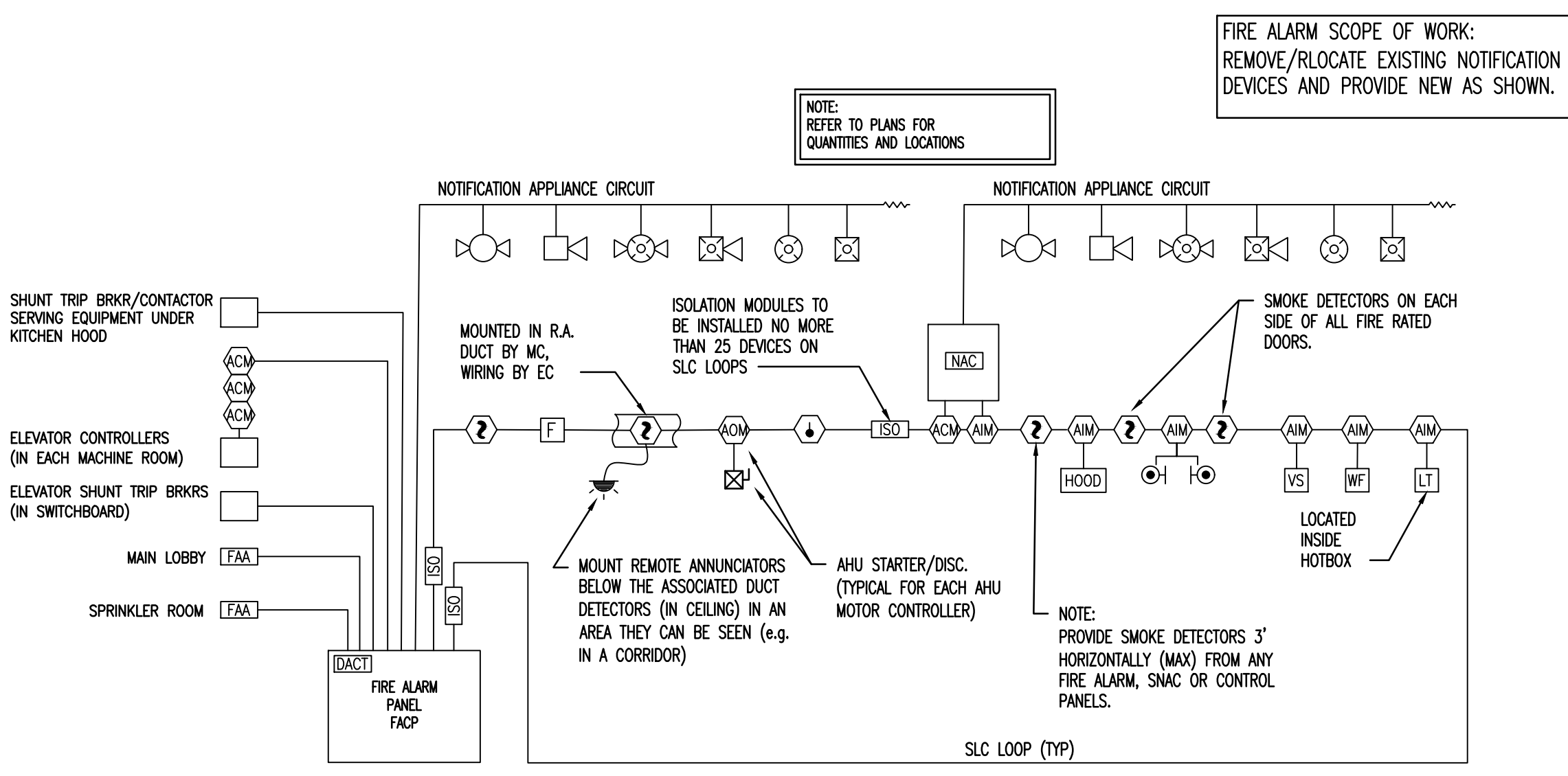
FIRE ALARM SCHEDULE - EXISTING

SYMBOL	CALLOUT	NOTE
[Symbol]	HEAT DETECTOR - SENSOR	TYPE AS INDICATED
[Symbol]	PULL STATION - FIRE ALARM	
[Symbol]	SMOKE DETECTOR SENSOR - PHOTOELECTRIC TYPE	
[Symbol]	VISUAL ONLY APPLIANCE (WALL MOUNTED)	CANDELA RATING AS NOTED

FIRE ALARM SCHEDULE - NEW

SYMBOL	CALLOUT	NOTE
[Symbol]	AUDIBLE-VISUAL APPLIANCE (CEILING MOUNTED)	CANDELA RATING AS NOTED
[Symbol]	AUDIBLE-VISUAL APPLIANCE (WALL MOUNTED)	CANDELA RATING AS NOTED

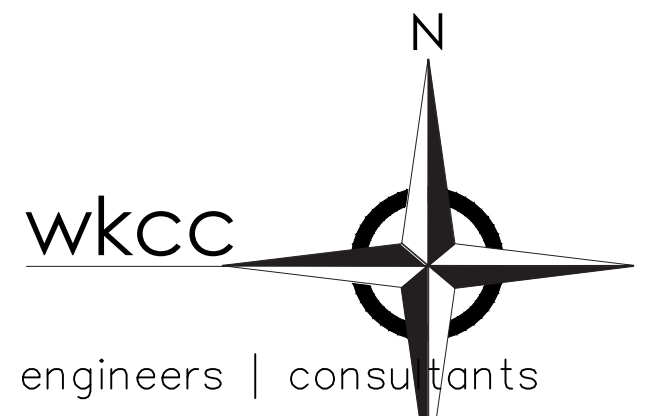
X - INDICATES DEVICE TO BE REMOVED
E - INDICATES DEVICE TO REMAIN
R - INDICATES DEVICE TO BE RELOCATED



1 FIRE ALARM RISER DIAGRAM
FA001 SCALE: NTS

WIRE LEGEND:

NAC CIRCUITS: 2 CONDUCTOR, #12AWG, BLUE+, BLACK-
CLASS 30 LOOP: 1 PHR, #18AWG TWISTED, OVERALL SHIELD, RED+, BLACK-, RED- JACKET.



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9/19/2024

PIEDMONT COMMUNITY COLLEGE
1715 COLLEGE DRIVE
ROXBORO, NORTH CAROLINA 27573
SCO ID#: 25-26709-01A

REVISIONS

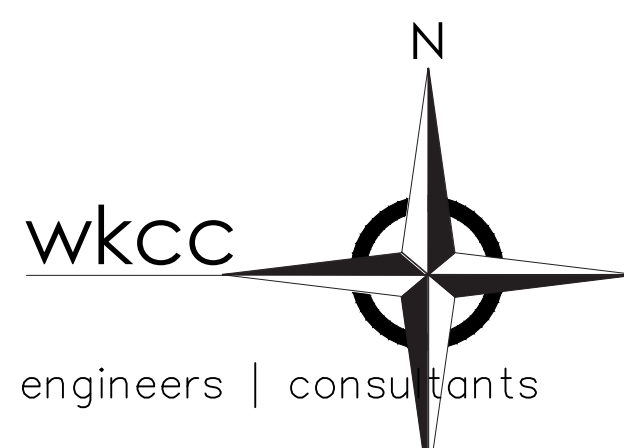
#	DESCRIPTION:	DATE

SHEET NAME:
FIRE ALARM COVER SHEET

PHASE:
BID SET

ISSUE DATE: 19 SEPT 2024
PROJECT #: 23030
DRAWN BY: CG

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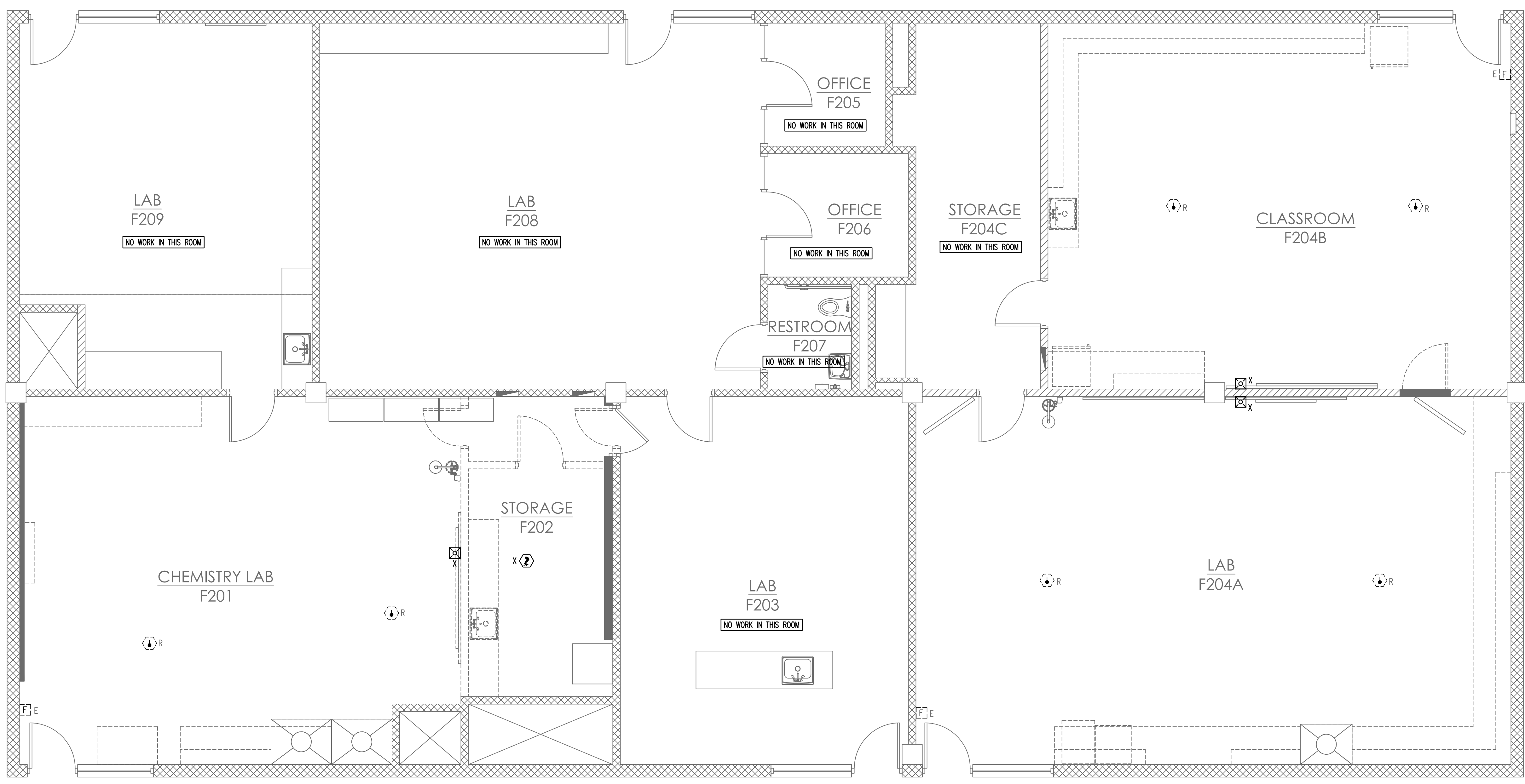
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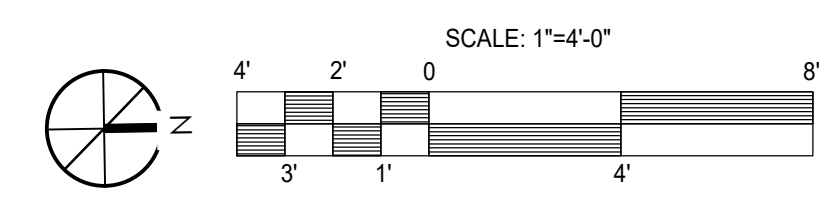


9/19/2024



1 FIRE ALARM DEMO PLAN
 FA101 SCALE: 1/4" = 1'-0"

KEY PLAN



PIEDMONT COMMUNITY COLLEGE
 1715 COLLEGE DRIVE
 ROXBORO, NORTH CAROLINA 27573
 SCO ID#: 23-26709-01A

REVISIONS		
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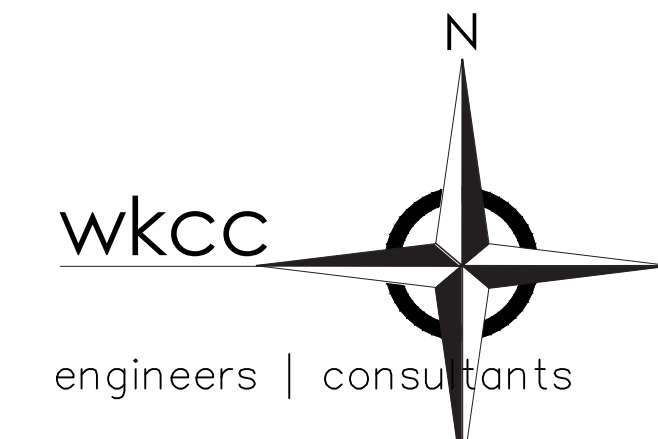
SHEET NAME:
 FIRE ALARM DEMO PLAN

PHASE:
 BID SET

ISSUE DATE: 19 SEPT 2024
 PROJECT #: 23030
 DRAWN BY: CG

SHEET NUMBER

FA101



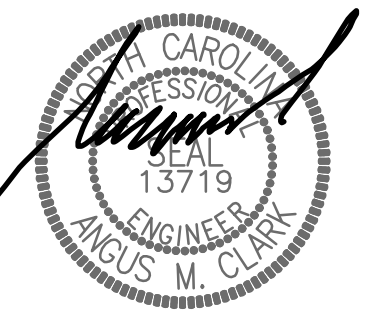
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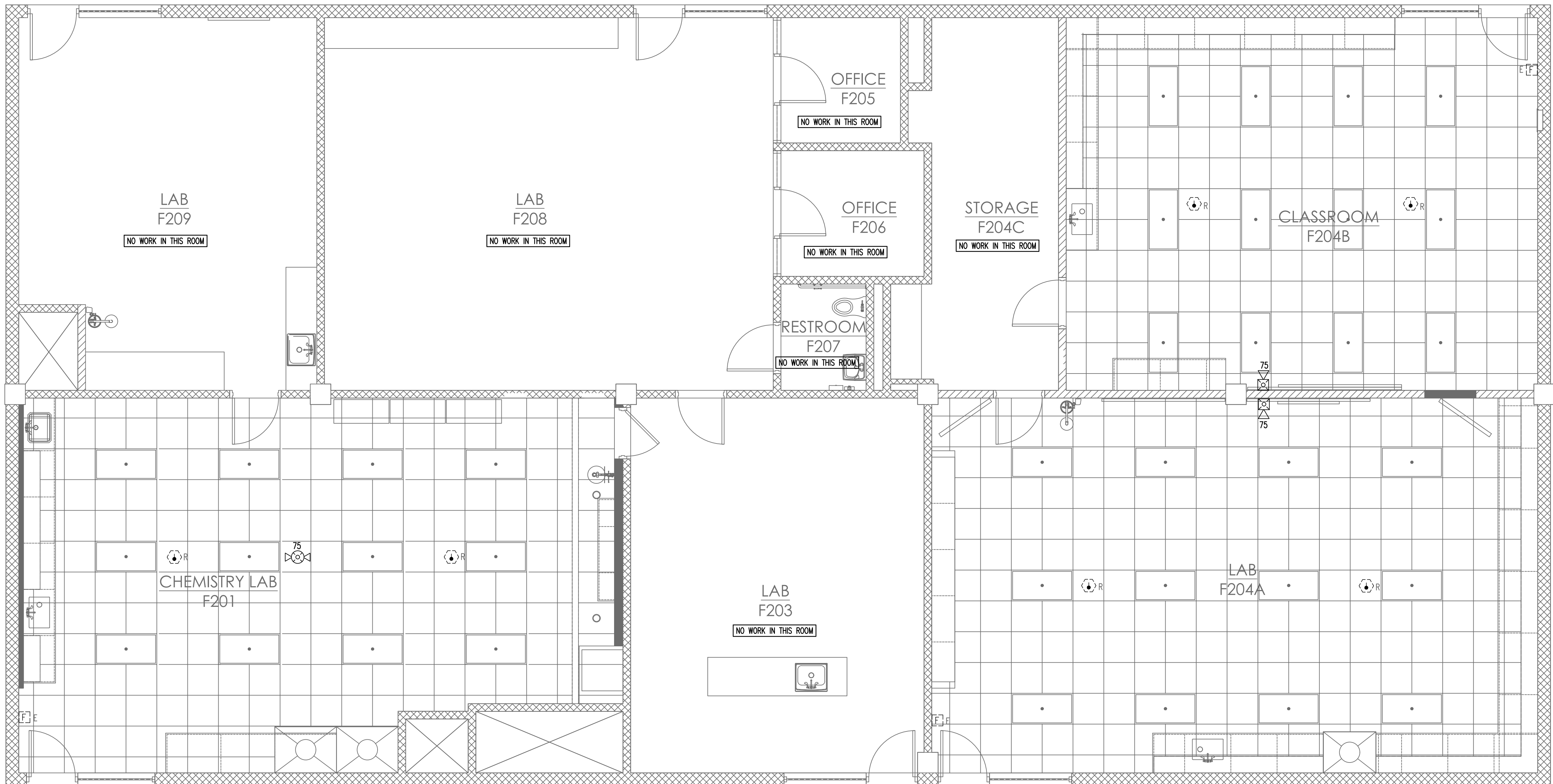
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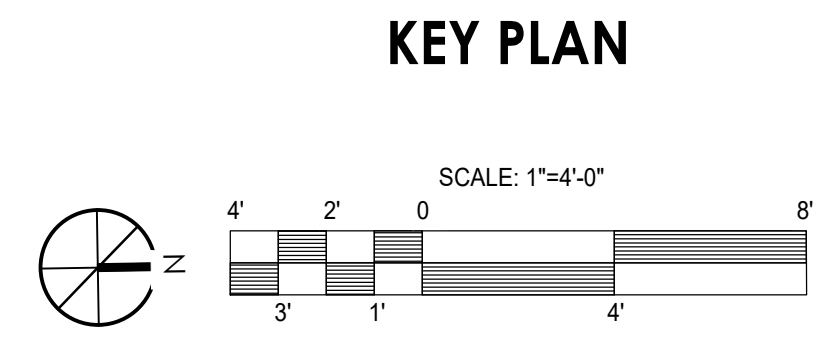
9/19/2024



PIEDMONT COMMUNITY COLLEGE
 1715 COLLEGE DRIVE
 ROXBORO, NORTH CAROLINA 27573
 SCO ID#: 23-26709-01A

#	REVISIONS DESCRIPTION	DATE

1 FIRE ALARM PLAN
 FA201 SCALE: 1/4" = 1'-0"



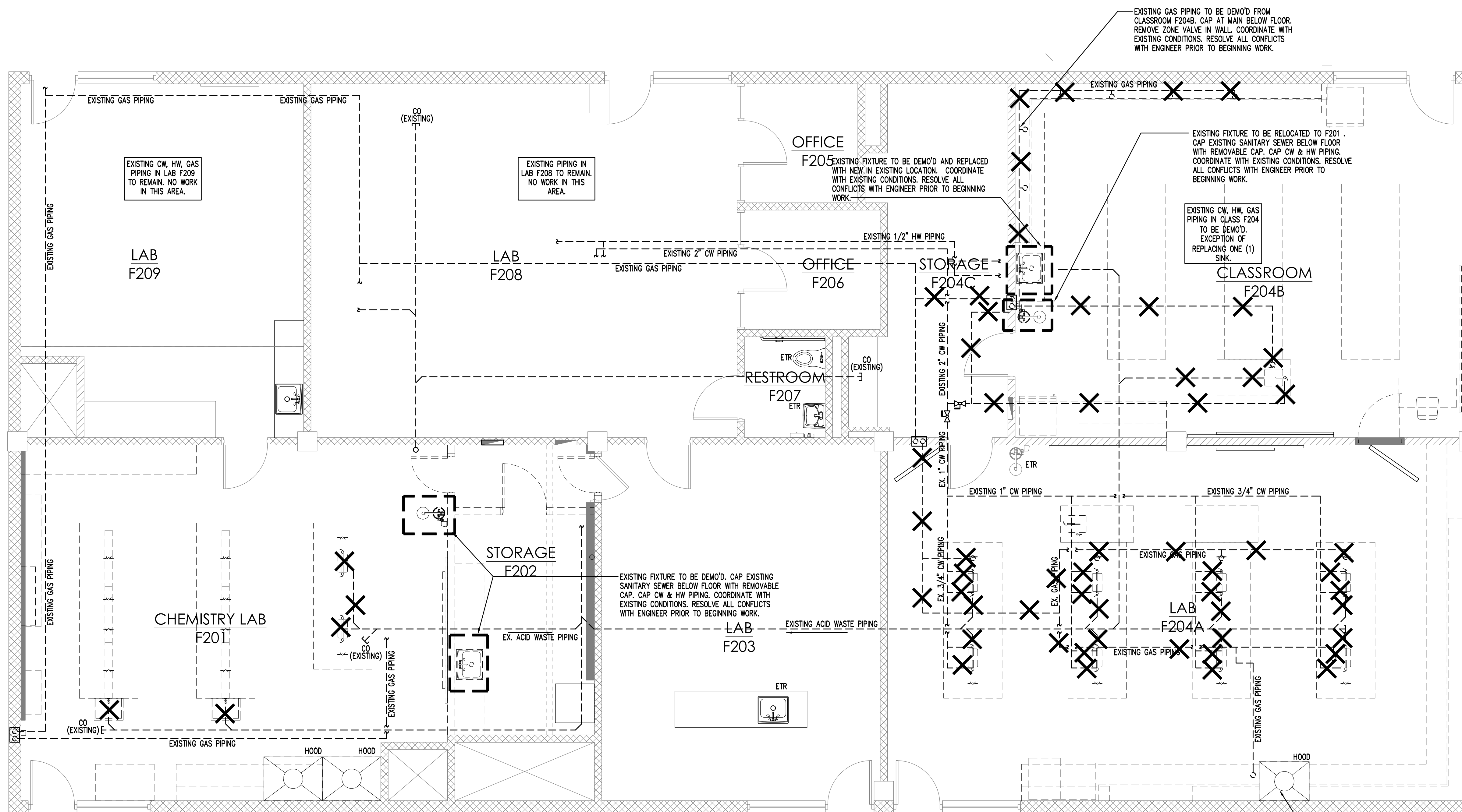
SHEET NAME:
 FIRE ALARM PLAN

PHASE:
 BID SET

ISSUE DATE: 19 SEPT 2024
 PROJECT #: 23030
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SHEET NUMBER
FA201

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1 DEMO PLAN - PLUMBING
PO01 / SCALE: 1/4" = 1' - 0"

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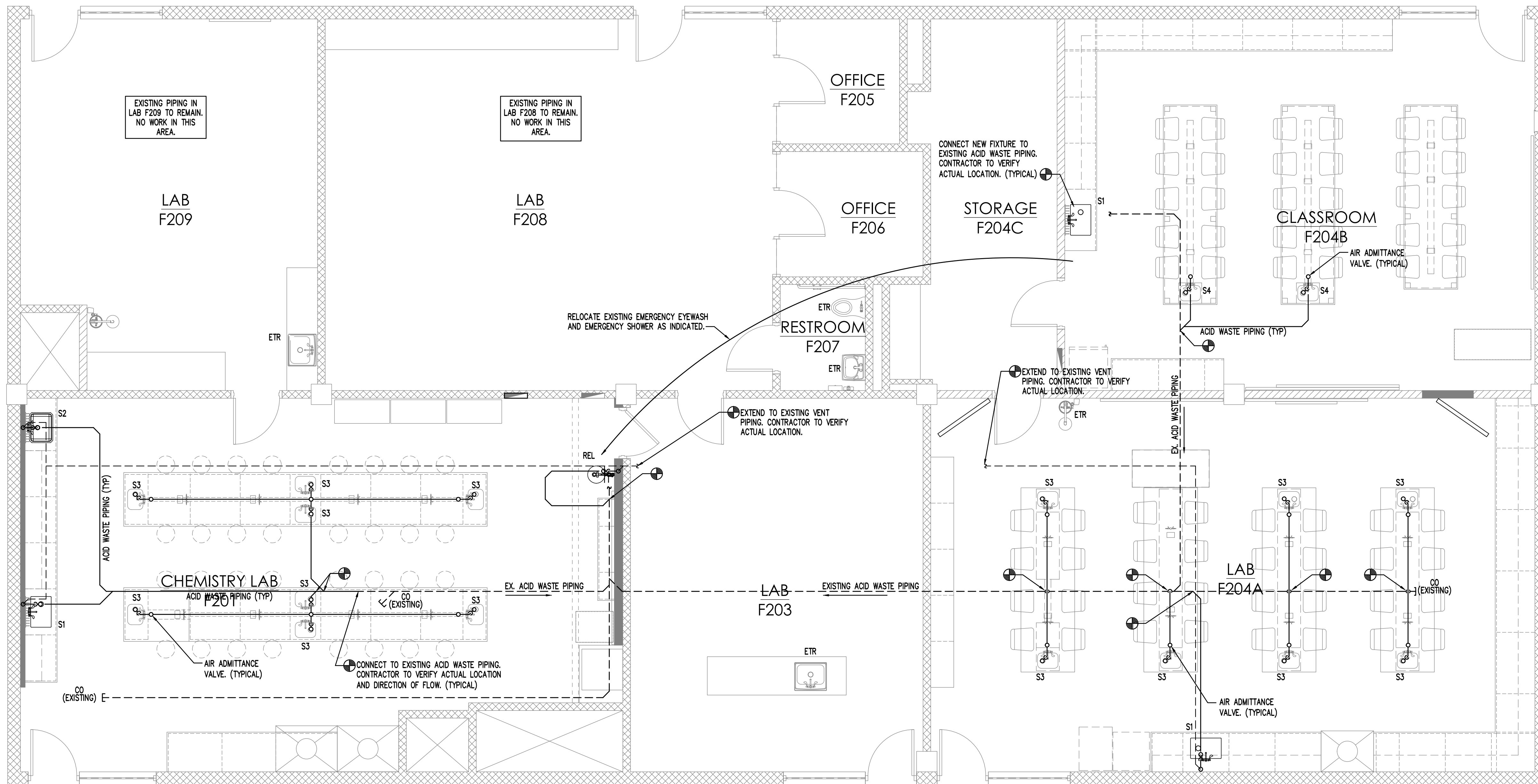
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PLUMBING DEMO PLAN

PHASE:
BID SET

ISSUE DATE: 19 SEPT 2024
PROJECT #: #23030
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SHEET NUMBER
PO01

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1715 COLLEGE DRIVE
ROXBORO, NORTH CAROLINA 27573
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1 FLOOR PLAN - S,W,+V
P101 SCALE: 1/4" = 1' - 0"

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1715 COLLEGE DRIVE
ROXBORO, NORTH CAROLINA 27573
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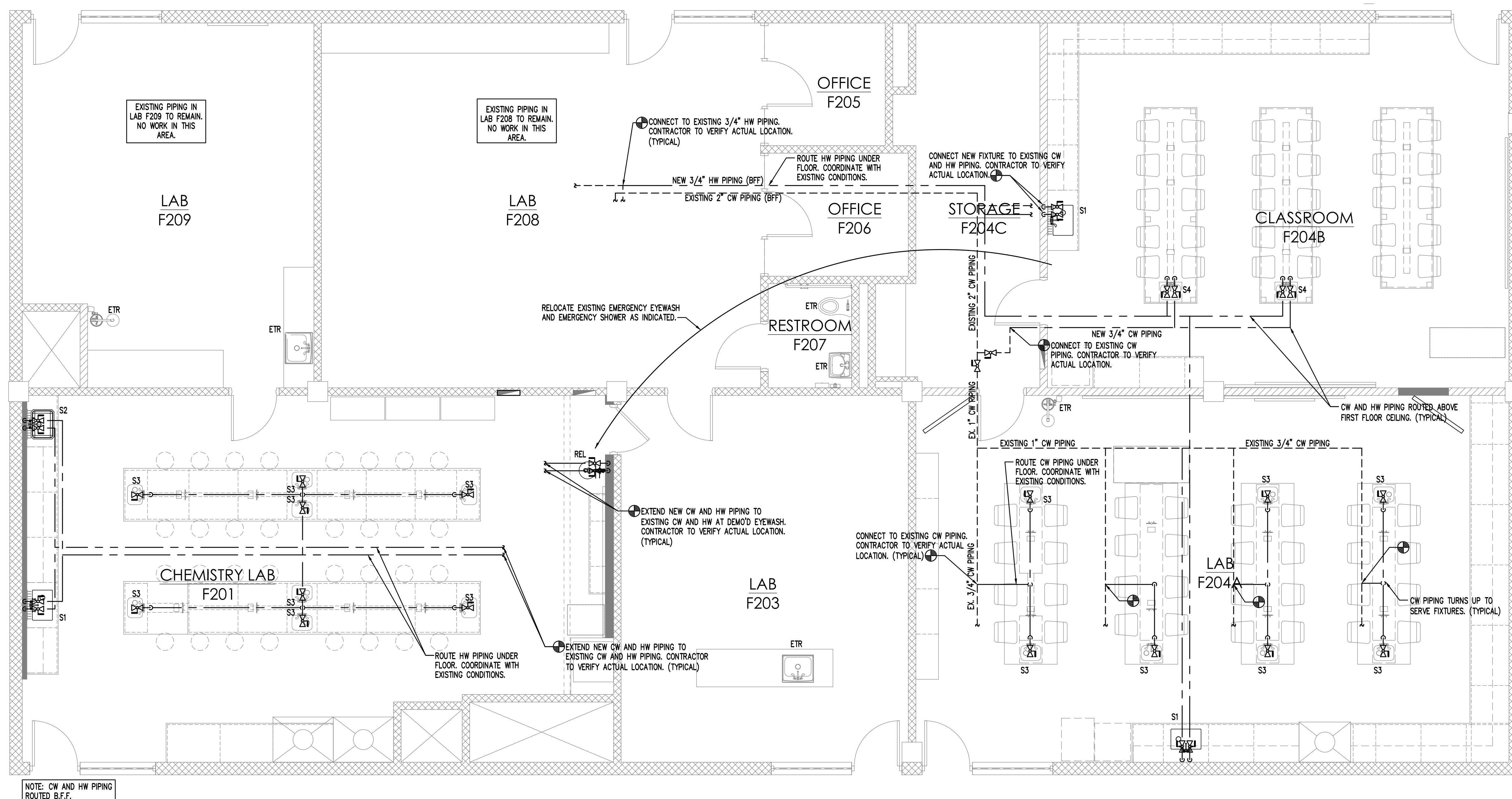
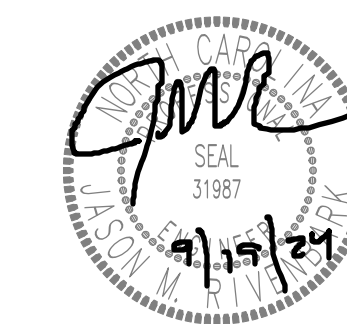
SHEET NAME:
S,W,&V FLOOR PLAN

PHASE:
BID SET

ISSUE DATE: 19 SEPT 2024
PROJECT #: #23030
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SHEET NUMBER

P101



1 FLOOR PLAN - WATER
P102 SCALE: 1/4" = 1' - 0"

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ROXBORO, NORTH CAROLINA 27573
SCO ID#: 23-26709-01A

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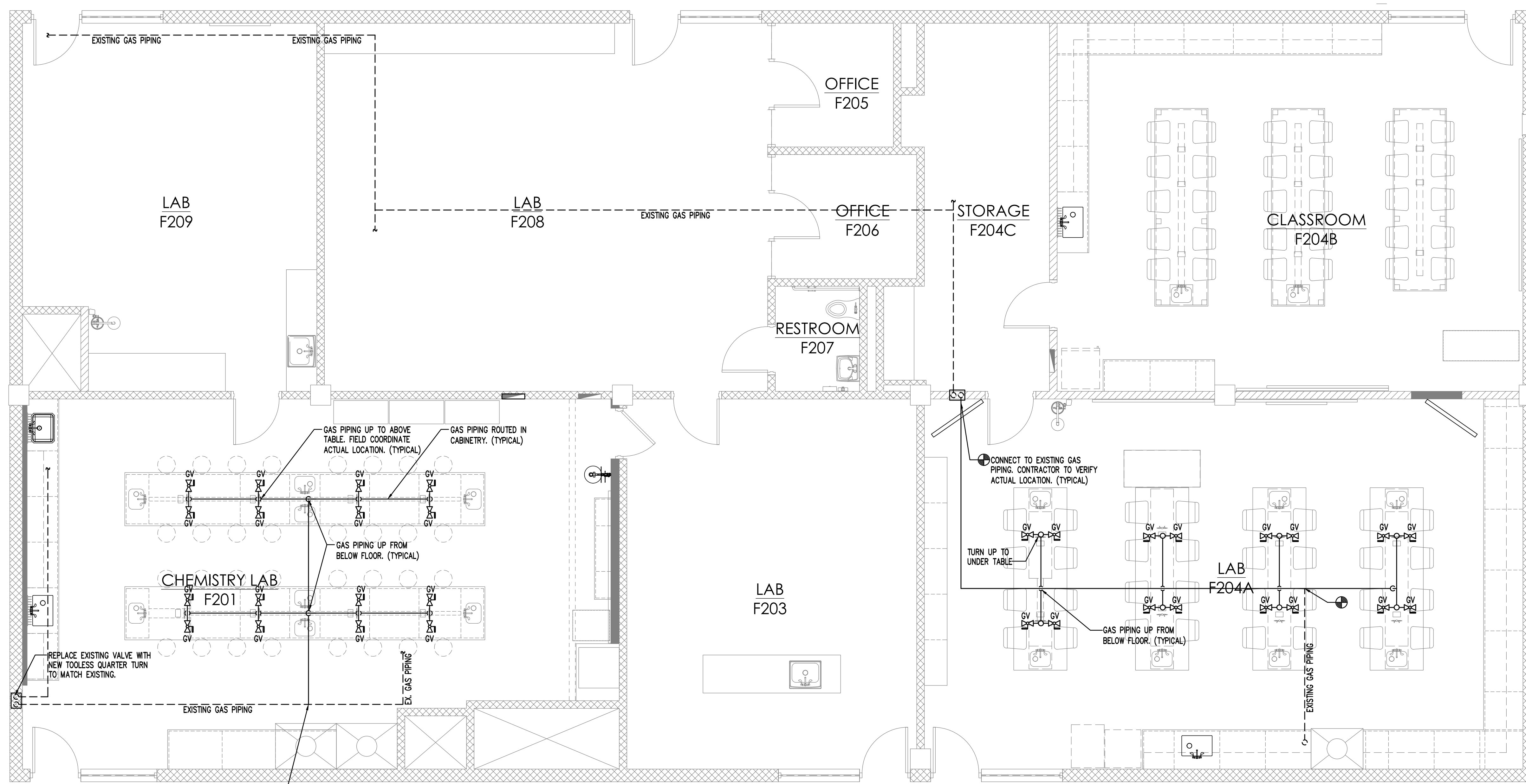
#	DESCRIPTION:	DATE

SHEET NAME:
WATER FLOOR PLAN

PHASE:
BID SET

ISSUE DATE: 19 SEPT 2024
PROJECT #: #23030
DRAWN BY: JR

SHEET NUMBER
P102



NOTE: GAS PIPING ROUTED B.F.F.

NOTE: ALL GAS PIPING INDICATED IS FOR LIQUID PROPANE GAS

NOTE: GAS VALVE (GV) TO BE CASE SYS. SF022. COORDINATE WITH ARCHITECT.

CONNECT TO EXISTING GAS PIPING CONTRACTOR TO VERIFY ACTUAL LOCATION.

1 FLOOR PLAN - GAS
P103 SCALE: 1/4" = 1' - 0"

REVISIONS:

#	DESCRIPTION:	DATE

SHEET NAME:
PLUMBING RISERS

PHASE:
BID SET

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PROJECT #: #23030
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SHEET NUMBER
P103

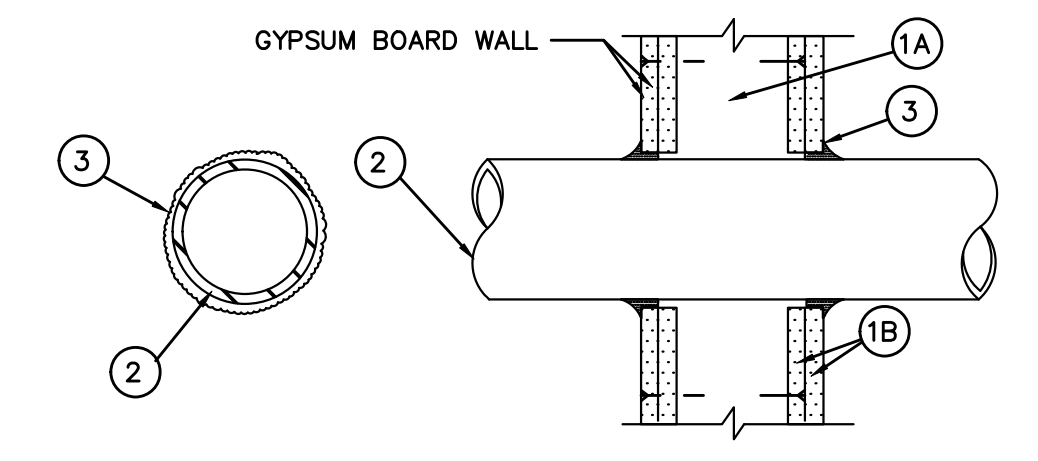
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1715 COLLEGE DRIVE
ROXBORO, NORTH CAROLINA 27573
SCO ID#: 23-26709-01A

PLUMBING SPECIFICATIONS

- PLUMBING SPECIFICATIONS:
- THE ENTIRE PLUMBING SYSTEM SHALL BE IN ACCORDANCE WITH 2018 NORTH CAROLINA PLUMBING CODE AND LOCAL PLUMBING INSPECTOR.
 - ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION. CONTRACTOR SHALL COORDINATE ROUTING OF ALL PIPING WITH EXISTING CONDITIONS AND SHALL PROVIDE ANY NECESSARY OFFSETS, REROUTING, ETC. REQUIRED FOR A COMPLETE AND COORDINATED INSTALLATION.
 - THESE PLANS ARE DIAGRAMMATIC. CONTRACTOR SHALL PROVIDE ALL NECESSARY OFFSET, TEES, ELBOWS, ETC. FOR A COMPLETE WORKING PLUMBING SYSTEM.
 - THE CONTRACTOR SHALL OBTAIN AND PAY ALL FEES RELATED TO PERMITTING, INSPECTIONS, TAPS, ETC.
 - CONTRACTOR SHALL COORDINATE ANY PLUMBING SYSTEM REQUIRING SHUTDOWN WITH THE OWNER 48 HOURS PRIOR TO BEGINNING WORK.
 - ALL DOMESTIC WATER PIPING SHOWN IS ABOVE CEILING/WITHIN WALLS UNLESS NOTED OTHERWISE.
 - ALL DOMESTIC WATER PIPING (ABOVE SLAB) SHALL BE TYPE "L" COPPER WITH 95/5 LEAD FREE SOLDER. ABOVE SLAB, OUTSIDE OF PLENUM SPACES, ~~PEX PIPING IS ACCEPTABLE.~~ ALL WATER PIPING (BELOW SLAB) SHALL BE TYPE "K" SOFT COPPER. COMPLY W/ ASTM B-88-88A.
 - ALL WATER PIPING SHALL BE INSULATED WITH CLOSED CELL (ARMAFLEX) TYPE INSULATION WITH THE FLAME DENSITY RATING NOT EXCEEDING 25 & THE SMOKE DENSITY RATING NOT EXCEEDING 50. THICKNESS FOR COLD WATER PIPING SHALL BE 1/2" THICK. THICKNESS FOR HOT WATER & RETURN PIPING SHALL BE 1" THICK.
 - ALL BRANCH LINES SHALL HAVE SHUT-OFF VALVES. ALL DOMESTIC WATER BALL VALVES SHALL BE BRASS BODY, FULL PORT, CHROME PLATED BALL, TEFLON SEATS, 150# WSP, FOR SIZES 1/2" THRU 2". SIZES ABOVE 2" SHALL BE BRONZE GATE VALVE, NRS SOLID DISC, SCREW OVER BONNET, 125# WSP. PROVIDE VALVE HANDLE EXTENSIONS AS REQUIRED FOR INSULATION.
 - ALL PLUMBING FIXTURES AND KITCHEN EQUIPMENT SHALL HAVE A PISTON TYPE WATER HAMMER ARRESTOR SIZED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS & PDI STANDARDS.
 - ALL SANITARY SEWER PIPING SHOWN IS BELOW SLAB/WITHIN WALLS UNLESS NOTED OTHERWISE. ALL SANITARY VENT PIPING SHOWN IS ABOVE CEILING/WITHIN WALLS UNLESS NOTED OTHERWISE.
 - ALL WASTE & VENT PIPING (ABOVE SLAB) SHALL BE PVC-DWV WITH PIPING AND FITTINGS CONFORMING TO ASTM D-2865. PLENUM SPACE WASTE & VENT PIPING (ABOVE SLAB) SHALL BE SERVICE WEIGHT CAST IRON WITH NO-HUB FITTINGS CONFORMING TO CISPI 301. JOINTS SHALL BE ONE-PIECE NEOPRENE GASKET WITH STAINLESS STEEL BAND AND BOLTS CONFORMING TO ASTM C564-85.
 - ALL WASTE & VENT PIPING (BELOW SLAB) SHALL BE PVC-DWV WITH PIPING AND FITTINGS CONFORMING TO ASTM D-2865.
 - ALL PIPING SYSTEMS SHALL BE SUPPORTED AS REQUIRED BY 2018 NORTH CAROLINA PLUMBING CODE & MANUFACTURER'S RECOMMENDATIONS.
 - ALL PIPING PENETRATIONS THRU NEW/EXISTING WALLS/FLOORS SHALL BE SEALED TO EQUAL THE RATING OF THE NEW/EXISTING WALL OR FLOOR.
 - ALL PLUMBING SYSTEMS SHALL BE TESTED AS REQUIRED BY 2018 NORTH CAROLINA PLUMBING CODE.
 - THE PLUMBING CONTRACTOR SHALL COORDINATE ALL UNDERSLAB PLUMBING PIPING WITH ALL STRUCTURAL FOUNDATIONS. P.C. SHALL COORDINATE ALL UNDERSLAB PLUMBING PIPING ELEVATION INVERTS WITH SITE UTILITY ELEVATION INVERTS.
 - P.C. SHALL COORDINATE ALL KITCHEN EQUIPMENT REQUIRING PLUMBING CONNECTIONS WITH KITCHEN EQUIPMENT VENDOR. PROVIDE ALL NECESSARY P-TRAPS, SUPPLY STOPS, INDIRECT PIPING, ETC. REQUIRED FOR COMPLETE HOOK-UP OF KITCHEN EQUIPMENT REQUIRING PLUMBING CONNECTIONS.
 - THE BACKFLOW PREVENTION DEVICE SHALL BE INSTALLED AS REQUIRED PER LOCAL AUTHORITY.
 - THE ENTIRE DOMESTIC WATER SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH 2018 NORTH CAROLINA PLUMBING CODE.
 - ALL VENT THRU THE ROOF PENETRATIONS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND SHALL BE CONCEALED BEHIND ROOF RIDGE WHERE POSSIBLE. P.C. SHALL PROVIDE ALL FLASHING MATERIAL REQUIRED FOR VENT THRU ROOF. ALL VENT'S SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ALL OUTSIDE AIR INTAKES.
 - ALL GAS PIPING AND GAS FLUE TO GAS WATER HEATER BY PLUMBING CONTRACTOR.
 - PLUMBING CONTRACTOR SHALL HAVE RECEIVED APPROVED SHOP DRAWINGS FROM THE ENGINEER PRIOR TO BEGINNING NEW WORK.

PLUMBING FIXTURES AND EQUIPMENT

MARK	DESCRIPTION	PIPE SERVICE AND CONN. SIZE			FIXTURE SPECIFICATIONS
		CW	HW	WASTE	
S1	SINK SINGLE BOWL TABLE MTD.	1/2"	1/2"	1-1/2"	CASE SYSTEMS SSS20 EPOXY RESIN, UNDERMOUNTED, DIM. 24" X 16" X 8" DEEP. TRAP & SUPPLIES: ACID-RESISTANT STRAINER WITH 1-1/2" X 4" TAILPIECE. 1-1/2" P-TRAP AND NIPPLE. FAUCET: CASE SYSTEMS SF853 DECK MOUNTED ONE HOLE MIXER WITH ADA FRIENDLY BLADE HANDLES, VACUUM BREAKER GOOSENECK AND DETACHABLE NOZZLE SUPPLIED BY MILLWORK PROVIDER.
S2	SINK SINGLE BOWL CTR. MTD.	1/2"	1/2"	1-1/2"	ELKAY ELUHAD211545PD 304 STAINLESS STEEL, 18 GAUGE, UNDERMOUNTED, DIM. 21" X 15" X 4-1/2" DEEP. TRAP & SUPPLIES: ACID-RESISTANT STRAINER WITH 1-1/2" X 4" TAILPIECE. 1-1/2" P-TRAP AND NIPPLE. 3/8"x12" FLEX RISER ANGLE SUPPLY STOPS. FAUCET: CASE SYSTEMS SF853 DECK MOUNTED ONE HOLE MIXER WITH ADA FRIENDLY BLADE HANDLES, VACUUM BREAKER 6" GOOSENECK AND DETACHABLE NOZZLE SUPPLIED BY MILLWORK PROVIDER.
S3	SINK SINGLE BOWL CTR. MTD.	1/2"	-	1-1/2"	CASE SYSTEMS SSS10 EPOXY RESIN, UNDERMOUNTED, DIM. 16" X 12" X 8" DEEP. TRAP & SUPPLIES: ACID-RESISTANT STRAINER WITH 1-1/2" X 4" TAILPIECE. 1-1/2" P-TRAP AND NIPPLE. 3/8"x12" FLEX RISER ANGLE SUPPLY STOPS. FAUCET: CASE SYSTEMS SF603 DECK MOUNTED ONE HOLE MIXER WITH ADA FRIENDLY BLADE HANDLE, VACUUM BREAKER 6" GOOSENECK AND DETACHABLE NOZZLE SUPPLIED BY MILLWORK PROVIDER.
S4	SINK SINGLE BOWL CTR. MTD.	1/2"	1/2"	1-1/2"	CASE SYSTEMS SSS10 EPOXY RESIN, UNDERMOUNTED, DIM. 16" X 12" X 8" DEEP. TRAP & SUPPLIES: ACID-RESISTANT STRAINER WITH 1-1/2" X 4" TAILPIECE. 1-1/2" P-TRAP AND NIPPLE. 3/8"x12" FLEX RISER ANGLE SUPPLY STOPS. FAUCET: CASE SYSTEMS SF853 DECK MOUNTED ONE HOLE MIXER WITH ADA FRIENDLY BLADE HANDLES, VACUUM BREAKER 6" GOOSENECK AND DETACHABLE NOZZLE SUPPLIED BY MILLWORK PROVIDER.
GV	GAS VALVE				CASE SYSTEMS GAS VALVE MODEL SF022
ETR	EXISTING TO REMAIN				EXISTING PLUMBING FIXTURE TO REMAIN
REL	RELOCATED FIXTURE				RELOCATED EXISTING PLUMBING FIXTURE.



System No. W-L-1001
June 15, 2005

- F Ratings - 1, 2, 3 and 4 Hr (See Items 2 and 3)
- T Ratings - 0, 1, 2, 3, and 4 Hr (See Item 3)
- L Rating At Ambient - less than 1 CFM/sq ft
- L Rating At 400 F - less than 1 CFM/sq ft

- Wall Assembly** - The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 - Sluds** - Wall framing may consist of either wood studs (max 2 h fire rated assemblies) 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 with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 3-5/8 in. (92 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.
 - Gypsum Board*** - Nom 1/2 or 5/8 in. (13 or 16 mm) thick, 4 ft. (122 cm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in. (660 mm).
- Through-Penetrant** - One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in. / (0 mm). (point contact) to max 2 in. (51 mm). 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 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
 - Iron Pipe** - Nom 24 in. (610 mm) diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in (305 mm) diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.
 - Conduit** - Nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 4 in (102 mm) diam (or smaller) steel electrical metallic tubing
 - Copper Tubing** - Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing
 - Copper Pipe** - Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
- Through Penetrating Product*** - Flexible Metal Piping The following types of steel flexible metal gas piping may be used:
 - Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

OMEGA FLEX INC

 - Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

GASTITE, DIV OF TITEXLEX

 - Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

WARD MFG INC
- Fill, Void or Cavity Material*** - Caulk or Sealant - Min 5/8, 1-1/4, 1-7/8 and 2-1/2 in. (16, 32, 48 and 64 mm) thickness of caulk for 1, 2, 3 and 4 hr rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min 1/4 in. (6 mm) diam bead of caulk applied to gypsum board/penetrant interface at point contact location on both sides of wall. The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

Max Pipe or Conduit Diam in (mm)	F Rating Hr	T Rating Hr
1 (25)	1 or 2	0+, 1 or 2
1 (25)	3 or 4	3 or 4
4 (102)	1 or 2	0
6 (152)	3 or 4	0
12 (305)	1 or 2	0

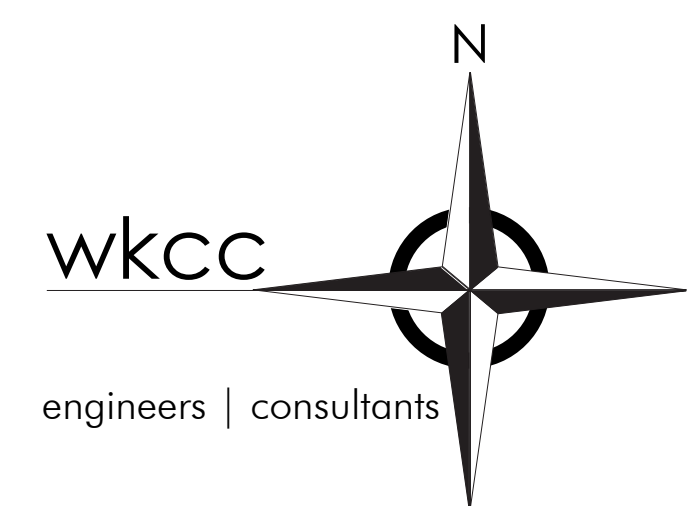
+When copper pipe is used, T Rating is 0 h.

3M COMPANY - CP 25MB+ or FB-3000 WT.

FOR FRAMED WALL ONLY
1,2,3, OR 4 HOUR PENETRATION
FIRESTOP DETAIL
2
P202 SCALE: NTS

PLUMBING LEGEND AND ABBREVIATIONS

	SANITARY SEWER PIPING (W)
	VENT PIPING (V)
	COLD WATER PIPING (CW)
	HOT WATER PIPING (HW)
	HOT WATER RETURN PIPING (HWR)
	ELL TURNS UP
	ELL TURNS DOWN
	CHECK VALVE
	BALL VALVE
	GATE VALVE IN HORIZONTAL POSITION
	CLEANOUT IN GROUND (GCO)
	CLEANOUT IN FLOOR OR SLAB (FCO)
A.F.F.	ABOVE FINISH FLOOR
FD - A	FLOOR DRAIN - TYPE (SEE SCHEDULE)
H.B.	HOSE BIBB
FPWH	FREEZE PROOF WALL HYDRANT
H.D.	HUB DRAIN
INV. ELEV. OR I.E.	INVERT ELEVATION
P.C.	PLUMBING CONTRACTOR
V.T.R.	VENT THROUGH ROOF
CV	COMMON VENT
EOCV	END OF CIRCUIT VENT
BOCV	BEGINNING OF CIRCUIT VENT
	1 HOUR RATED BARRIER/PARTITION/WALL
	2 HOUR RATED BARRIER/PARTITION/WALL
	3 HOUR RATED BARRIER/PARTITION/WALL
	CONNECT TO EXISTING



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THESE DRAWINGS AND THE ACCOMPANYING SPECIFICATIONS ARE INSTRUMENTS OF SERVICE AND AS SUCH SHALL REMAIN THE PROPERTY OF THE ARCHITECT. THEY HAVE BEEN PREPARED FOR A SPECIFIC PROJECT AND SHALL NOT BE USED IN CONJUNCTION WITH ANY OTHER PROJECTS WITHOUT PRIOR WRITTEN PERMISSION OF THE ARCHITECT. ©MHAWORKS 2024



PIEDMONT COMMUNITY COLLEGE
1715 COLLEGE DRIVE
ROXBORO, NORTH CAROLINA 27573
SCO ID#: 23-26709-01A

REVISIONS:

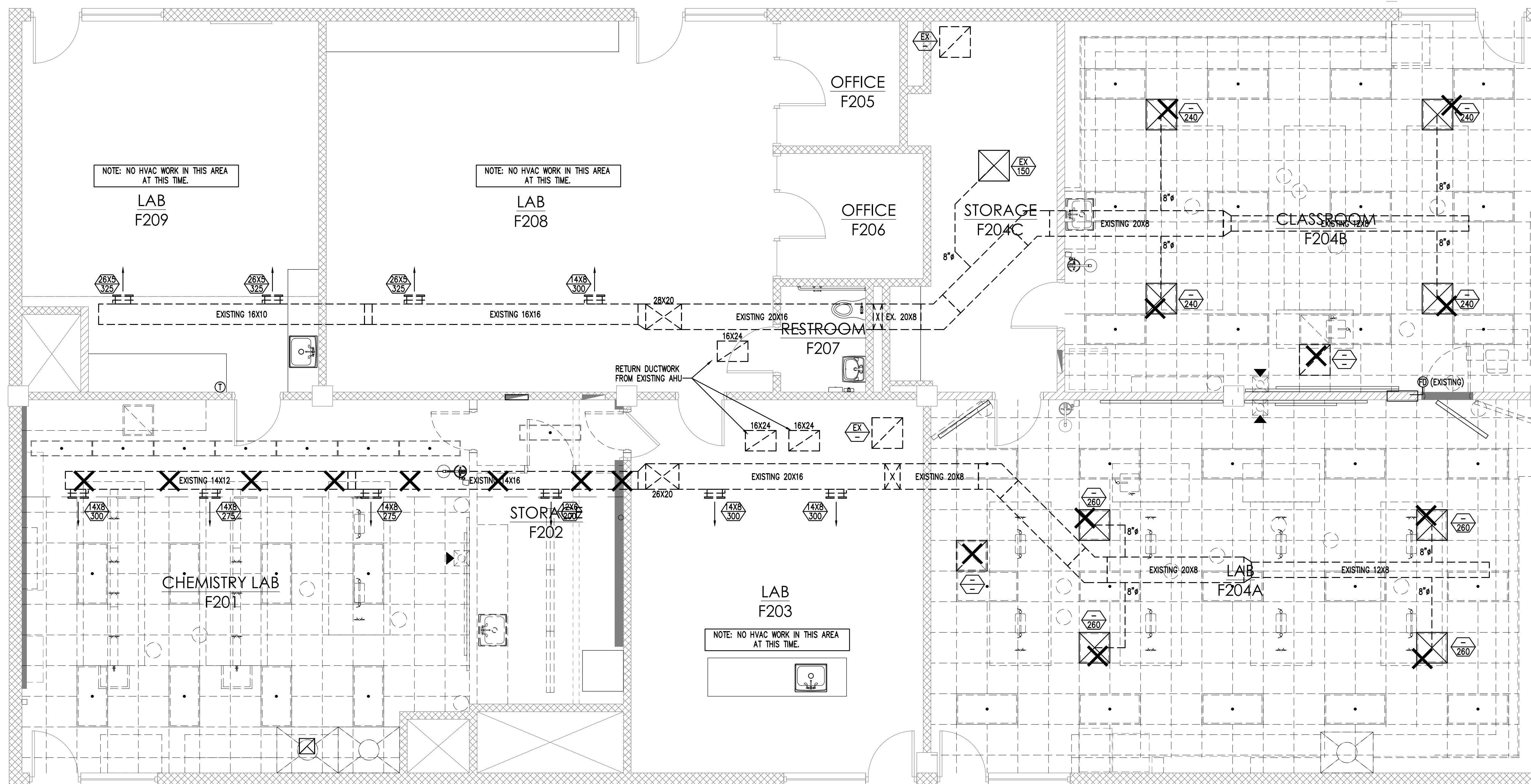
#	DESCRIPTION:	DATE

SHEET NAME:
PLUMBING DETAILS

PHASE:
BID SET

ISSUE DATE: 19 SEPT 2024
PROJECT #: #23030
DRAWN BY: JR

SHEET NUMBER
P202



1 DEMO PLAN - HVAC
M001 / SCALE: 1/4" = 1' - 0"

WEST KEY CONSULTING HAS REPRESENTED THE EXISTING CONDITIONS TO THE BEST OF OUR ABILITY BASED ON LIMITED VISUAL INSPECTION AND INFORMATION OBTAINED DURING OUR SITE VISIT. WE ASSUME NO RESPONSIBILITY OR LIABILITY FOR VARIATION FROM THIS REPRESENTATION OR FROM ANY NON-CODE COMPLYING EXISTING CONDITIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE PRIOR TO BIDDING AND FULLY FAMILIARIZE HIMSELF OF ALL EXISTING CONDITIONS THAT CAN IN ANY WAY AFFECT THE WORK OR COST THEREOF. SHOULD ANY DISCREPANCIES OR NON-CODE COMPLYING ISSUES BE FOUND, THE CONTRACTOR SHALL NOTIFY WEST KEY CONSULTING AT ONCE IN WRITING PRIOR TO SUBMITTING BID. LACK OF SUCH NOTIFICATION SHALL BE CONSTRUED TO INDICATE NO DISCREPANCIES OR CODE CONFLICTS. ADDITIONAL COMPENSATION WILL NOT BE GRANTED AFTER AWARD OF CONTRACT FOR ANY WORK REQUIRED TO COMPLY WITH THESE REQUIREMENTS.

CONTRACTOR SHALL PROVIDE VOLUME DAMPER AT DUCT TAP WHERE POSSIBLE AND ACCESSIBLE. WHERE NOT ACCESSIBLE, PROVIDE ADJUSTABLE OPPOSED BLADE DAMPER AT DIFFUSER/GRILLE. FIELD COORDINATE LOCATIONS AND SIZES. (TYPICAL)

1/M001 DEMO NARRATIVE:
DESIGN OF THIS SPACE INCLUDES THE FOLLOWING:
1. EXISTING TRUNK DUCTWORK TO REMAIN WITH EXCEPTION OF THAT INDICATED ABOVE TO BE DEMO'D.
2. ALL EXISTING LAY-IN DIFFUSERS AND GRILLES IN AREA OF WORK ARE TO BE REPLACED.
3. REUSE ALL EXISTING EXHAUST FANS. NO EXHAUST CHANGES AS PART OF THIS SCOPE OF WORK.
4. REUSE ALL EXISTING EXHAUST FANS. NO EXHAUST CHANGES AS PART OF THIS SCOPE OF WORK.
5. IF CONDITIONS VARY FROM THAT INDICATED ON DRAWINGS, COORDINATE WITH ENGINEER OR ARCHITECT PRIOR TO DEMO OF EQUIPMENT OR DUCTWORK. INSPECTION ABOVE CEILING WAS LIMITED AT TIME OF SITE VISIT.

HVAC LEGEND	
	EXISTING RECTANGULAR/ROUND DUCT
	NEW RECTANGULAR/ROUND DUCT
	DEMO'D DUCTWORK
	DEMO'D DUCTWORK

REVISIONS:		
#	DESCRIPTION:	DATE

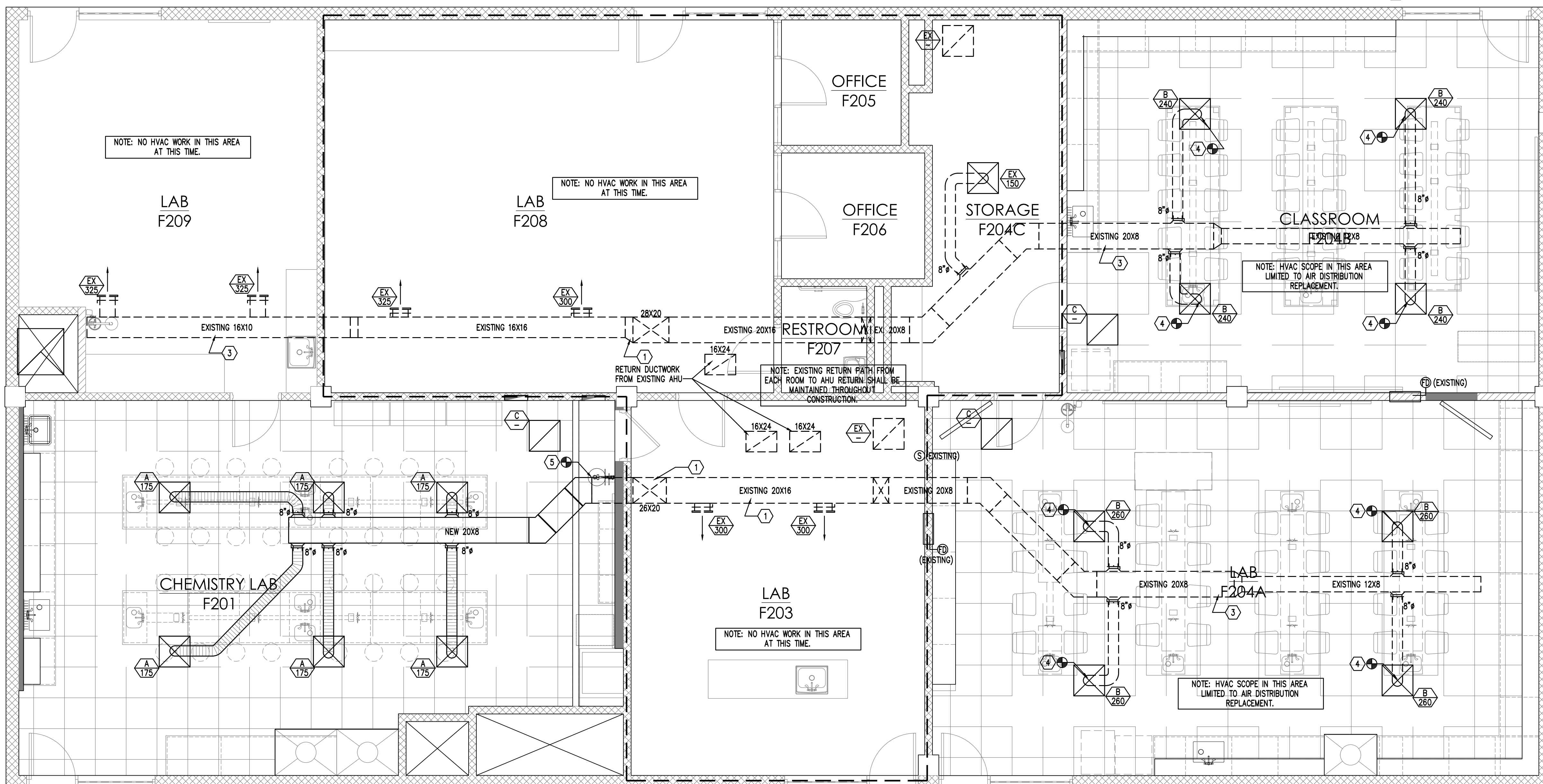
SHEET NAME:
HVAC DEMO

PHASE:
BID SET

ISSUE DATE: 19 SEPT 2024
PROJECT #: #23030
DRAWN BY: JR

SHEET NUMBER
M001

PIEDMONT COMMUNITY COLLEGE
1715 COLLEGE DRIVE
ROXBORO, NORTH CAROLINA 27573
SCO ID#: 23-26709-01A



PLAN KEY NOTES:

- EXISTING DUCTWORK ROUTED FROM EXISTING AIR HANDLING UNIT TO REMAIN.
- CONNECT NEW DUCTWORK TO EXISTING DUCTWORK AS INDICATED. COORDINATE WITH EXISTING CONDITIONS. CONFIRM SIZE PRIOR TO BEGINNING WORK. (TYPICAL)
- EXISTING PRIMARY SUPPLY DUCTWORK TO REMAIN. COORDINATE WITH EXISTING CONDITIONS. (TYPICAL)
- CONNECT NEW SUPPLY DIFFUSER TO EXISTING DUCTWORK AS INDICATED. TRANSITION AS REQUIRED. COORDINATE WITH EXISTING CONDITIONS. (TYPICAL)
- CONNECT NEW DUCTWORK TO EXISTING DUCTWORK AS INDICATED. NEW DUCTWORK TO BE ROUTED ABOVE NEW CEILING. COORDINATE WITH EXISTING CONDITIONS. CONFIRM SIZE PRIOR TO BEGINNING WORK. (TYPICAL)

NOTE: REFERENCE ARCHITECTURAL PLANS FOR WALL RATINGS.

NOTE: MECHANICAL CONTRACTOR SHALL COORDINATE DUCTWORK INSTALLATION WITH GENERAL CONTRACTOR PRIOR TO BEGINNING WORK. (TYPICAL)

CONTRACTOR TO VERIFY ALL EQUIPMENT CLEARANCES REQUIRED BY CODE AND RECOMMENDED BY MANUFACTURERS FOR ALL EQUIPMENT.

NOTE: MAINTAIN A MINIMUM OF 10 FEET CLEAR FROM ALL VENT/EXHAUST DISCHARGES TO NEAREST OUTSIDE AIR INTAKE.

NOTE: COORDINATE ALL EQUIPMENT LOCATIONS WITH GENERAL CONTRACTOR AND OWNER PRIOR TO BEGINNING WORK.

NOTE: ALL WORK SHALL BE COORDINATED BETWEEN TRADES PRIOR TO BEGINNING WORK.

NOTE: COORDINATE FINAL THERMOSTAT LOCATIONS WITH TENANT PRIOR TO BEGINNING WORK. COORDINATE WITH WALL SWITCHES.

CONTRACTOR SHALL PROVIDE VOLUME DAMPER AT DUCT TAP WHERE POSSIBLE AND ACCESSIBLE. WHERE NOT ACCESSIBLE, PROVIDE ADJUSTABLE OPPOSED BLADE DAMPER AT DIFFUSER/GRILLE. FIELD COORDINATE LOCATIONS AND SIZES. (TYPICAL)

NOTE: CONTRACTOR SHALL VERIFY ALL EXISTING RETURN AIR TRANSFERS REMAIN THROUGHOUT CONSTRUCTION.

1 FLOOR PLAN - HVAC
M101 SCALE: 1/4" = 1' - 0"

GENERAL NOTES:

- ANY NEW OR EXISTING DUCT (INCLUDING SUPPLY AND RETURN DUCTS) PENETRATING A FIRE RATED WALL SHALL BE EQUIPPED WITH A FIRE RATED DAMPER. MECHANICAL CONTRACTOR TO VERIFY THAT THE EXISTING SUPPLY AND RETURN DUCT IS OPEN BACK TO THE RETURN AIR OPENING ON THE AIR HANDLING UNIT. CONTRACTOR SHALL INCLUDE ALL FIRE DAMPERS (IF APPLICABLE) REQUIRED IN BASE PRICE.
- ALL EXISTING MAIN SUPPLY DUCTS ARE TO BE REUSED UNLESS INDICATED OTHERWISE.
- NOTE NOT USED.
- EXISTING AIR HANDLING UNITS ARE TO BE REUSED. VERIFY DUCT INSTALLED SMOKE DETECTOR IN RETURN DUCT. REBALANCE AIR DISTRIBUTION SYSTEM AS SHOWN.
- REBALANCE OUTSIDE AIR ON EACH OF THE AIR HANDLING UNITS WHICH SERVE THIS AREA TO PROVIDE OUTSIDE AIR CAPACITIES TO THE VAV BOXES SHOWN IN SCHEDULE. PROVIDE OUTSIDE AIR KITS FOR EXISTING UNIT AS REQUIRED.
- PRIOR TO BIDDING, MECHANICAL CONTRACTOR IS TO VISIT SITE TO FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS.
- SUPPLY AIR DIFFUSERS ARE TO BE ADJUSTED SUCH THAT THE DIFFUSER WILL NOT BLOW AIR DIRECTLY ON THE ROOM OCCUPANT'S DESK. DIFFUSERS IN EXTERIOR ROOMS ARE TO DIRECT SUPPLY AIR TOWARDS THE WINDOWS AND THE CENTER OF THE ROOMS AWAY FROM THE OCCUPANT.
- ALL ZONES AFFECTED BY CONSTRUCTION SHALL BE REBALANCED IN THEIR ENTIRETY.
- CONTRACTOR TO CAP ALL UNUSED EXISTING DUCT TAKE-OFFS AND SEAL AIRTIGHT.
- MECHANICAL CONTRACTOR SHALL VERIFY THAT ALL EXISTING DUCTWORK IS INSULATED IN COMPLIANCE WITH N.C. ENERGY CODE.
- PROVIDE RETURN BOOTS FOR ALL UN-DUCTED RETURN GRILLES. COORDINATE OTHER RETURN BOOT LOCATIONS WITH TENANT PRIOR TO ORDER.
- MECHANICAL CONTRACTOR SHALL INCLUDE ROOF PATCHING AND REPAIR AS PART OF HIS CONTRACT. ROOFING CONTRACTOR TO BE APPROVED BY BUILDING OWNER.
- COORDINATE FINAL ZONE SENSOR LOCATIONS WITH GENERAL CONTRACTOR AND TENANT PRIOR TO INSTALLATION.

AIR DISTRIBUTION SCHEDULE						
MARK	TYPE	PANEL SIZE	CEILING	NECK SIZE	TYPE	REMARKS
A	STEEL, PLAQUE FACE, ROUND NECK, W/ OBD	24X24	LAY-IN CEILING	8"	SUPPLY	COLOR: WHITE MAX NC: 32 MAX P.D. (IN H2O): 0.15
B	STEEL, PLAQUE FACE, ROUND NECK, W/ OBD	24X24	LAY-IN CEILING	10"	SUPPLY	COLOR: WHITE MAX NC: 32 MAX P.D. (IN H2O): 0.15
C	STEEL, PERFORATED, CONFIGURE FOR PLENUM RETURN	24X24	LAY-IN CEILING	22X22	RETURN	COLOR: WHITE MAX NC: 32 MAX P.D. (IN H2O): 0.10
EX	EXISTING DIFFUSER/GRILLE TO REMAIN					

REVISIONS:

#	DESCRIPTION:	DATE

SHEET NAME:
HVAC FLOORPLAN

PHASE:
BID SET

ISSUE DATE: 19 SEPT 2024
PROJECT #: #23030
DRAWN BY: JR

SHEET NUMBER
M101

PIEDMONT COMMUNITY COLLEGE
1715 COLLEGE DRIVE
ROXBORO, NORTH CAROLINA 27573
SCO ID#: 23-26709-01A

GENERAL NOTES:

1. THE HEATING AND AIR CONDITIONING CONTRACTOR (THE CONTRACTOR) SHALL PROVIDE ALL SPECIFIED AND MISCELLANEOUS MATERIAL AND LABOR AS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM AS DESCRIBED BY THESE PLANS AND SPECIFICATIONS.
2. NOT USED.
3. PROVIDE AN ELECTRONIC PROGRAMMABLE THERMOSTAT FOR EACH AIR HANDLING UNIT. THE HIGHEST OPERATING COMPONENT OF THE THERMOSTAT SHALL BE MOUNTED AT 48" MAX. A.F.F. AND IN COMPLIANCE WITH NC ACCESSIBILITY CODE.
4. THE MECHANICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF THE OTHER TRADES PRIOR TO THE INSTALLATION OF ANY OF HIS EQUIPMENT, DUCTWORK, OR PIPING.
5. ALL EQUIPMENT, MATERIALS, AND INSTALLATION OF SUCH SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND NATIONAL CODES. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS. IF THERE IS A CONFLICT IN THE ABOVE REQUIREMENTS, THE MORE STRINGENT SHALL BE USED. ACCESS TO ALL EQUIPMENT SHALL BE PROVIDED IN COMPLIANCE WITH CHAPTER 3 OF THE NORTH CAROLINA MECHANICAL CODE.
6. THE MECHANICAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES, AND INSPECTIONS REQUIRED FOR HIS WORK.
7. WORKMANSHIP SHALL BE FIRST-CLASS AND PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMEN.
8. REFER TO ARCHITECTURAL PLANS FOR FLOOR PLAN DIMENSIONS, DO NOT SCALE THESE DRAWINGS.
9. COORDINATE EXACT LOCATION OF ALL DIFFUSERS WITH LIGHTS, SPRINKLER HEADS, AND OTHER CEILING MOUNTED DEVICES.
10. THE MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL HIS OWN SUPPORT EQUIPMENT. LOCATIONS SHALL BE COORDINATED WITH ALL CONTRACTORS PRIOR TO INSTALLATION.
11. ALL EQUIPMENT SHALL BE LOCATED AND INSTALLED TO PROVIDE MAXIMUM SPACE FOR MAINTENANCE AND SERVICE. ALL EQUIPMENT INSTALLATIONS SHALL ALLOW FOR ALL CODE AND MANUFACTURER REQUIRED CLEARANCES.
12. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER CONNECTIONS TO THE EQUIPMENT PROVIDED UNDER HIS CONTRACT.
13. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONTROL WIRING FOR HIS EQUIPMENT.
14. ALL OUTSIDE AIR SUPPLY AND EXHAUST DUCTWORK, FANS, AND EXTERIOR OPENINGS SHALL BE PROVIDED WITH CLASS 1 MOTORIZED DAMPERS IN COMPLIANCE WITH SECTION C403.2.4.3 OF THE NC ENERGY CONSERVATION CODE. GRAVITY DAMPERS MAY BE PERMITTED IN BUILDING LESS THAN 3 STORIES IN HEIGHT OR FOR EXHAUST AIRFLOW OF 300 CFM OR LESS.
15. FOR SPACES LARGER THAN 500 SQUARE FEET, THE CONTRACTOR SHALL PROVIDE CO2 SENSORS AND MOTORIZED DAMPERS ON ALL HVAC SYSTEMS TO PROVIDE DEMAND CONTROLLED VENTILATION IN COMPLIANCE WITH SECTION C403.2.6 OF THE NC ENERGY CONSERVATION CODE UNLESS OTHERWISE NOTED.
16. NOT USED
17. DUCTWORK AS SHOWN ON THE DRAWINGS IS STRICTLY DIAGRAMMATIC. ALL DUCT SIZES SHOWN ARE FREE AREA. COORDINATE EXACT LOCATION OF ALL DUCTWORK WITH THE BUILDING STRUCTURE AND OTHER TRADES.
18. IT WILL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO ENSURE THAT ITEMS TO BE FURNISHED UNDER HIS CONTRACT WILL FIT THE SPACE AVAILABLE. HE SHALL MAKE NECESSARY FIELD MEASUREMENTS TO ASCERTAIN SPACE REQUIREMENTS, INCLUDING THOSE FOR CONNECTIONS AND SERVICE CLEARANCES, AND SHALL FURNISH AND INSTALL SUCH SIZES AND SHAPES OF EQUIPMENT THAT ARE THE TRUE INTENT AND MEANING OF THESE DRAWINGS AND SPECIFICATIONS.
19. PROVIDE BALANCING DAMPERS IN ALL DUCTS WHERE REQUIRED FOR SYSTEM BALANCING AS SHOWN ON PLANS OR AS REQUIRED.
20. INSTALL FLEXIBLE DUCT CONNECTIONS AT THE SUPPLY AND RETURN DUCTWORK CONNECTIONS OF ALL AIR HANDLING UNITS FOR VIBRATION ISOLATION.
21. PROVIDE FIRE DAMPERS AT ALL DUCT PENETRATIONS THROUGH THE FIRE-RATED WALLS AS SHOWN ON PLANS OR AS REQUIRED. PROVIDE RADIATION DAMPERS AT ALL DIFFUSERS/GRILLES MOUNTED IN FIRE-RATED CEILINGS AND CEILING ASSEMBLIES AS SHOWN ON PLANS OR AS REQUIRED.
22. PROVIDE ACCESS PANELS IN THE DUCTWORK FOR ALL FIRE DAMPERS OR OTHER DUCT MOUNTED EQUIPMENT. LOCATE ACCESS PANEL SO THAT ACCESS TO EQUIPMENT IS EASILY ATTAINED.
23. CONTRACTOR SHALL PROVIDE ENTHALPY CONTROLLED ECONOMIZERS FOR ANY AIR CONDITIONING UNIT OVER 65,000 BTUH OF COOLING UNLESS OTHERWISE NOTED. ECONOMIZER SHALL CONFORM TO REQUIREMENTS OF SECTION C403.3 OF THE NC ENERGY CONSERVATION CODE.
24. PRIOR TO BIDDING, MECHANICAL CONTRACTOR IS TO VISIT SITE TO FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS AND RESOLVE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND THESE PLANS WITH THE ENGINEER.
25. NOT USED
26. CONTRACTOR SHALL FURNISH A BOUND SET OF OPERATING AND MAINTENANCE MANUALS FOR ALL EQUIPMENT TO THE OWNER UPON COMPLETION OF PROJECT. MANUALS SHALL INCLUDE ALL ITEMS AS SPECIFIED IN SECTION C408.2.5 OF THE NORTH CAROLINA ENERGY CONSERVATION CODE.
27. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL SYSTEM COMMISSIONING REQUIREMENTS AS REQUIRED PER SECTION C408 OF THE NC ENERGY CONSERVATION CODE. ARCHITECT AND ENGINEER CAN PROVIDE STATEMENT OF SYSTEM COMMISSIONING (APPENDIX C1) AS REQUIRED IN SECTION 503.2.9.3 OF THE NORTH CAROLINA ENERGY CONSERVATION CODE. UPON NOTIFICATION THAT ALL REQUIREMENTS HAVE BEEN MET BY CONTRACTOR.
28. OUTSIDE AIR INTAKES SHALL BE LOCATED A MINIMUM OF 10 FEET FROM ALL EXHAUST DISCHARGE AND PLUMBING VENTS.
29. INSTALL ESCUTCHEONS IN ALL PLACES WHERE PIPING PENETRATES A WALL IN AN EXPOSED LOCATION.
30. REPLACE ALL FILTERS JUST PRIOR TO ACCEPTANCE BY THE OWNER.

31. THE MECHANICAL CONTRACTOR SHALL PROVIDE SMOKE DETECTORS PER SECTION 606 OF N.C. MECHANICAL CODE IN THE RETURN OF EACH UNIT TO DE-ENERGIZE UNIT IN THE EVENT OF FIRE. SMOKE DETECTORS SHALL BE U.L. LISTED FOR DUCT INSTALLATION. SUPERVISION OF DUCT DETECTOR SHALL BE PER SECTION 606.4.1. MECHANICAL CONTRACTOR SHALL PROVIDE VISUAL AND AUDIBLE ALARM FOR EACH DETECTOR.

32. MOUNT AIR HANDLING UNIT IN SUCH A WAY THAT ADEQUATE SLOPE IS PROVIDED FOR ALL DRAIN LINES. PIPE CONDENSATE FROM COIL AND DRAIN PAN FULL SIZE TO AN APPROVED PLACE OF DISPOSAL IN COMPLIANCE WITH NCMC, SECTION 307. PROVIDE FLOAT SWITCH IN CONDENSATE PANS TO STOP FAN UPON ACCUMULATION OF CONDENSATE IN PAN.

33. THE MECHANICAL CONTRACTOR SHALL MAKE A COMPLETE REVIEW OF THE MECHANICAL PLANS, INCLUDING THE SCHEDULES AND DETAILS PRIOR TO INSTALLATION OF ANY MECHANICAL SYSTEMS AND SHALL RESOLVE ANY CONFLICTS WITH THE ENGINEER.

34. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES. ALL DRAWINGS INDICATE THE GENERAL ARRANGEMENT DESIRED. THE EXACT LOCATIONS AND DETAILS OF CONSTRUCTION MAY BE SUCH THAT VARIANCES ARE REQUIRED. THE DRAWINGS DO NOT SHOW ALL BENDS, OFFSETS, AND FITTINGS THAT MAY BE REQUIRED FOR THE COMPLETE EXECUTION OF THIS CONTRACT. SUCH VARIANCES AND CONTINGENCIES SHALL BE ALLOWED FOR IN THE CONTRACTOR'S BID AND SHALL BE ACCOMPLISHED WITHOUT ADDITIONAL COST TO THE OWNER. PRIOR TO ORDERING EQUIPMENT, THE CONTRACTOR SHALL PREPARE COORDINATION DRAWINGS SHOWING HOW HIS EQUIPMENT IS TO BE LOCATED IN THE SPACE INDICATED. THIS DRAWING SHALL SHOW THE NEW AND EXISTING WORK OF ALL OTHER TRADES. THE CONTRACTOR SHALL CONTACT THE OTHER CONTRACTORS INVOLVED FOR DIMENSIONS, LOCATIONS, AND REQUIRED CLEARANCES OF THE EQUIPMENT THEY INTEND TO PROVIDE FOR THIS JOB. THE AFOREMENTIONED COORDINATION DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

35. ALL MATERIALS USED SHALL BE NEW AND FREE OF DEFECTS. IF TRADE NAMES ARE MENTIONED, THEY ARE GIVEN AS A REFERENCE TO THE QUALITY OF THE APPARATUS REQUIRED. ALL MATERIALS AND EQUIPMENT SHALL BEAR THE U.L. LABEL OR EQUIVALENT WHERE APPLICABLE. THE CONTRACTOR SHALL SUBMIT A COMPLETE LIST OF MATERIALS AND EQUIPMENT PROPOSED FOR USE IN THIS CONTRACT TO THE ENGINEER WITHIN TEN DAYS FOLLOWING THE AWARD OF CONTRACT. IF SUCH LIST IS NOT SUBMITTED, THE CONTRACTOR SHALL SUPPLY THE MATERIALS AND EQUIPMENT SPECIFIED OR AS DIRECTED BY THE ENGINEER.

36. NOT USED

37. NOT USED.

38. IF FIRE ALARM SYSTEM IS PROVIDED IN BUILDING, THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND WIRE ALL SMOKE DETECTORS. IF FIRE ALARM SYSTEM IS NOT PROVIDED IN BUILDING, THE MECHANICAL CONTRACTOR SHALL PROVIDE AND WIRE SMOKE DETECTORS. REGARDLESS OF WHO PROVIDES DETECTOR, IT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO INSTALL THE SMOKE DETECTORS IN THE RETURN OF REQUIRED UNITS TO DE-ENERGIZE UNIT IN THE EVENT OF FIRE. SMOKE DETECTORS SHALL BE U.L. LISTED FOR DUCT INSTALLATION. ELECTRICAL CONTRACTOR AND MECHANICAL CONTRACTOR SHALL COORDINATE SMOKE DETECTOR REQUIREMENTS FOR SYSTEM PRIOR TO INSTALLATION.

39. PRIOR TO BEGINNING WORK, CONTRACTOR SHALL PROVIDE A PRE-WORK TEST AND BALANCE FOR SYSTEMS IN THE AREA OF WORK TO VERIFY AIRFLOW IN AREAS SERVED BY COMMON SYSTEMS ARE NOT ADVERSELY IMPACTED BY THIS SCOPE OF WORK. UPON COMPLETION OF THE WORK, A TEST AND BALANCE SHALL BE PERFORMED IN ACCORDANCE WITH "TAB-C" REQUIREMENTS. AIR FLOW AND STATIC PRESSURE SHALL BE MEASURED AND RECORDED FOR ALL OUTLETS ON EACH SYSTEM. ONE WEEK AFTER THE OWNER HAS OCCUPIED THE BUILDING AND OPENED FOR BUSINESS, THE CONTRACTOR SHALL RE-BALANCE THE SYSTEM ACCORDING TO THE NEEDS OF THE OCCUPANTS. PROVIDE A COMPLETE TEST AND BALANCE REPORT TO THE ENGINEER. ACCEPTABLE TOLERANCE FOR AIR SIDE WORK: +/-10%.

40. AS APPLICABLE, THE CONTRACTOR SHALL VERIFY THE OPERATION OF ALL EXISTING MECHANICAL EQUIPMENT IN THE AREA OF WORK. ALL MEASUREMENTS SHALL BE RECORDED NECESSARY TO ASCERTAIN THE PROPER OPERATION OF THE EQUIPMENT INCLUDING, BUT NOT LIMITED TO, AMPERAGE, GPM FLOW, INLET AND OUTLET TEMPERATURES, AIR FLOW, AND INLET AND OUTLET STATIC PRESSURES. ANY DEFICIENCY IN THE RATED OUTPUT OF THE EQUIPMENT SHALL BE REPORTED TO THE ENGINEER AND BUILDING OWNER. IN ANY CASE, SAID REPORT SHALL BE SUBMITTED TO THE ENGINEER UPON REQUEST.

41. THE CONTRACTOR SHALL, AT THE COMPLETION OF THE WORK, CLEAN, POLISH, AND/OR WASH ALL EXPOSED ITEMS OF MATERIALS, EQUIPMENT, AND FIXTURES IN HIS CONTRACT TO LEAVE SUCH ITEMS BRIGHT AND CLEAN. THE CONTRACTOR SHALL KEEP THE PREMISES CLEAR OF DEBRIS FROM HIS WORK DURING CONSTRUCTION AND LEAVE THE AREA AND BUILDING CLEAN AT COMPLETION OF THE CONTRACT.

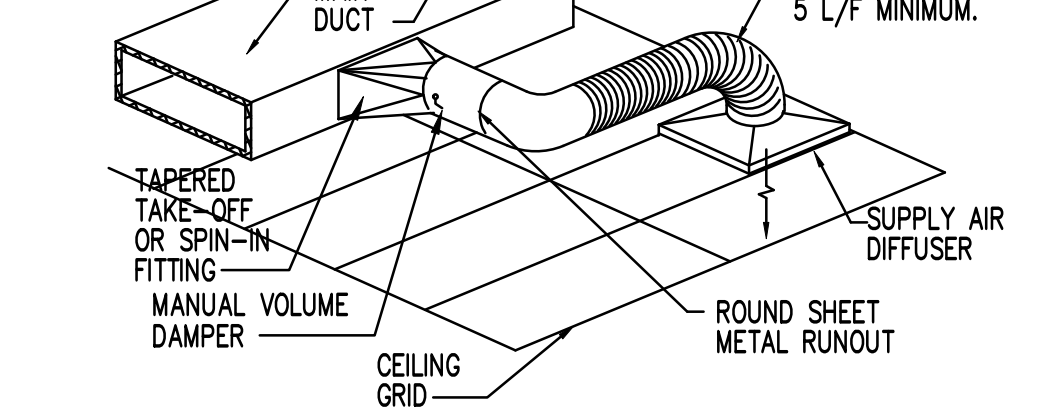
42. MECHANICAL AND ELECTRICAL EQUIPMENT SHALL OPERATE WITHOUT OBJECTIONABLE NOISE OR VIBRATION, AS DETERMINED BY THE ENGINEER. IF SUCH OBJECTIONABLE NOISE OR VIBRATION SHOULD BE PRODUCED AND TRANSMITTED TO OCCUPIED PORTIONS OF THE BUILDING, THE CONTRACTOR SHALL MAKE THE NECESSARY CHANGES TO CORRECT THE NOISE OR VIBRATION WITHOUT ADDITIONAL COST TO THE OWNER.

43. ALL AIR HANDLING UNIT SUPPLY FANS SHALL OPERATE CONTINUOUSLY DURING OCCUPIED HOURS.

44. MECHANICAL CONTRACTOR SHALL CONCEAL ALL EXTERIOR PENETRATIONS WHERE POSSIBLE. COORDINATE ALL EXTERIOR PENETRATIONS WITH BUILDING OWNER (TENANT) AND GENERAL CONTRACTOR.

45. ENGINEER SHALL NOT BE RESPONSIBLE FOR MISMATCHED OR INACCURATE PART NUMBERS. COORDINATE CLOSELY WITH ALL TRADES PRIOR TO MATERIAL/EQUIPMENT ORDERING.

46. CONTRACTOR SHALL PROVIDE SMOKE DETECTORS PER SECTION 606 OF N.C. MECHANICAL CODE IN THE RETURN OF EACH UNIT TO DE-ENERGIZE UNIT IN THE EVENT OF FIRE. SMOKE DETECTORS SHALL BE U.L. LISTED FOR DUCT INSTALLATION. SUPERVISION OF DUCT DETECTOR SHALL BE PER SECTION 606.4.1. MECHANICAL CONTRACTOR SHALL PROVIDE VISUAL AND AUDIBLE ALARM FOR EACH DETECTOR.



1 SUPPLY DIFFUSER INSTALLATION DETAIL
M201 SCALE: NTS

MECHANICAL SYSTEMS AND EQUIPMENT

METHOD OF COMPLIANCE:

- C401.2 Method 1 (ASHRAE 90.1)
- C401.2 Method 2 (Prescriptive)
- C401.2 Method 3 (Energy Cost Budget)

Thermal Zone 4A

Exterior Design Conditions

- winter dry bulb 16°F
- summer dry bulb 90°F
- summer wet bulb 75°F

Interior Design Conditions

- winter dry bulb 70°F
- summer dry bulb 75°F
- relative humidity 50%

Building Heating Load N/A

Building Cooling Load N/A

Mechanical Spacing Conditioning System

Unitary - No change to existing air handling systems serving area of work. Efficiencies and outputs for heating and cooling are listed in the schedules where applicable - See drawings.

Boiler - Not applicable to this project.
Chiller - Not applicable to this project.

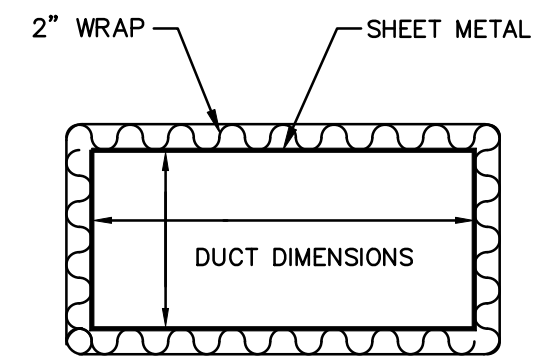
Equipment efficiencies
Efficiencies are listed on equipment schedules - See drawings.

Equipment schedules with motors.
Multispeed motors are used on this project and are included in the efficiency rating of the unit. See drawings for efficiencies.

NCSCB: ENERGY, Section C406 Compliance -

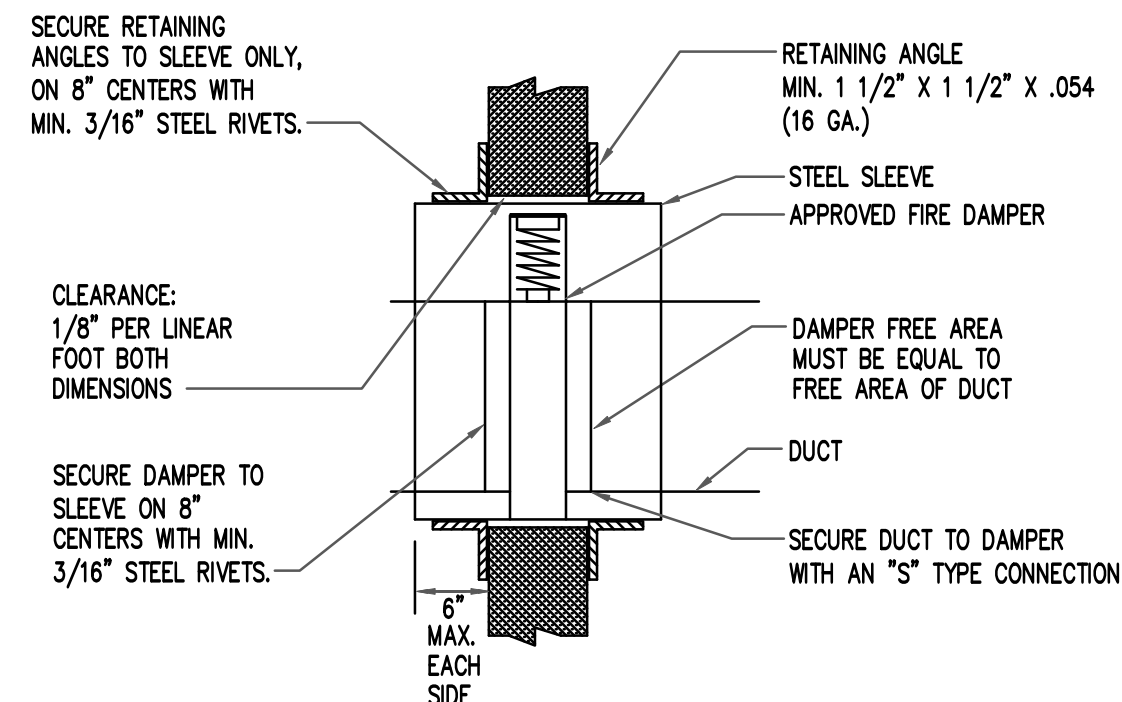
- C406.2 More Efficient Mechanical Equipment
- C406.3 Reduced LPD
- C406.4 Enhanced Digital Lighting Controls
- C406.5 On-site Renewable Energy
- C406.6 Dedicated Outdoor Air System
- C406.7 Reduced Energy Use in Service Water Heating
- C406.8 Load Fraction
- N/A

DESIGNER STATEMENT:
To the best of my knowledge and belief, the design of this building complies with the mechanical system and equipment requirements of the North Carolina State Building Code, Edition-Energy.

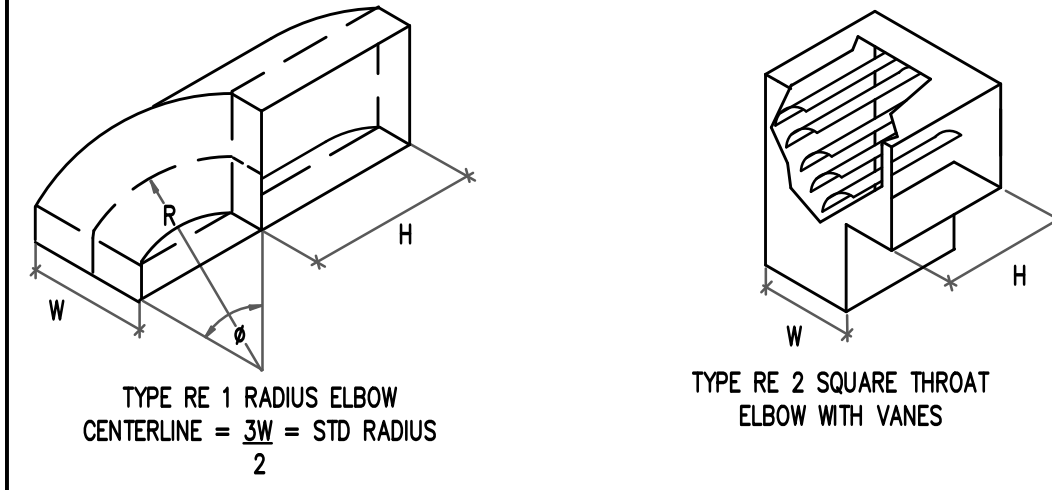


NOTE: ALL DUCT DIMENSIONS SHOWN ON THESE DRAWINGS ARE INSIDE CLEAR.

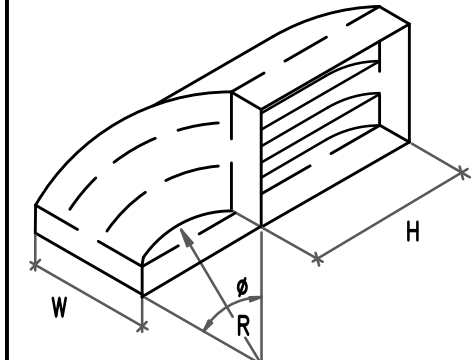
2 PRIMARY DUCT FABRICATION DETAIL
M201 SCALE: NTS



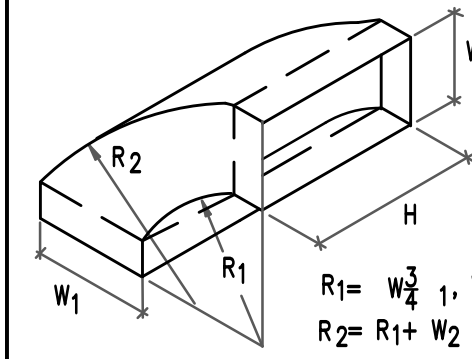
6 FIRE DAMPER DETAIL
M201 SCALE: NONE



TYPE RE 2 SQUARE THROAT ELBOW WITH VANES



TYPE RE 4 SQUARE THROAT ELBOW WITH OUT VANES



MITERED ELBOW

3 RECTANGULAR SHEETMETAL ELBOWS
M201 SCALE: NTS

HVAC LEGEND

- CEILING LOUVERED SUPPLY DIFFUSER
- CEILING RETURN GRILLE
- CEILING EXHAUST GRILLE/FAN
- ZONE SENSOR-RELOCATED
- THERMOSTAT
- ZONE SENSOR
- NEW RECTANGULAR/ROUND DUCT
- EXISTING RECTANGULAR/ROUND DUCT
- MANUAL VOLUME DAMPER
- DUCT TAP & FLEX
- SMOKE DETECTOR
- FIRE DAMPER
- FIRE/SMOKE DAMPER
- DIFFUSER MARK
- DIFFUSER CFM
- AHU-1 AIR HANDLER UNIT MARK
- QU-1 CONDENSING UNIT MARK
- DSS-1 DUCTLESS SPLIT SYSTEM MARK
- DCU-1 DUCTLESS CONDENSING UNIT MARK
- EF-1 EXHAUST FAN MARK
- HP-1 HEAT PUMP UNIT MARK
- ONE HOUR RATED BARRIER
- THREE HOUR RATED BARRIER
- O.A. OUTSIDE AIR
- RAT RETURN AIR TRANSFER
- RETURN AIR TRANSFER
- CONNECTION TO EXISTING
- GAS REGULATOR
- GAS VALVE
- GAS PIPING

1. **Wall Assembly** - The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs** - Wall framing may consist of either wood studs (max 2 hr fire rated assemblies) 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 with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 3-5/8 in. (92 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.

B. **Gypsum Board*** - Nom 1/2 or 5/8 in. (13 or 16 mm) thick, 4 ft. (122 cm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in. (660 mm).

2. **Through-Penetrant** - One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipes, conduit or tubing and periphery of opening shall be min of 0 in. / (0 mm), (point contact) to max 2 in. (51 mm) Pipes, 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:

- A. **Steel Pipe** - Nom 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
- B. **Iron Pipe** - Nom 24 in. (610 mm) diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in (305 mm) diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.
- C. **Conduit** - Nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 4 in (102 mm) diam (or smaller) steel electrical metallic tubing
- D. **Copper Tubing** - Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing
- E. **Copper Pipe** - Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

F. **Through Penetrating Product*** - Flexible Metal Pipe The following types of steel flexible metal gas piping may be used:

- 1. Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

OMEGA FLEX INC

- 2. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

GASTITE, DIV OF TITELFLEX

- 3. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

WARD MFG INC

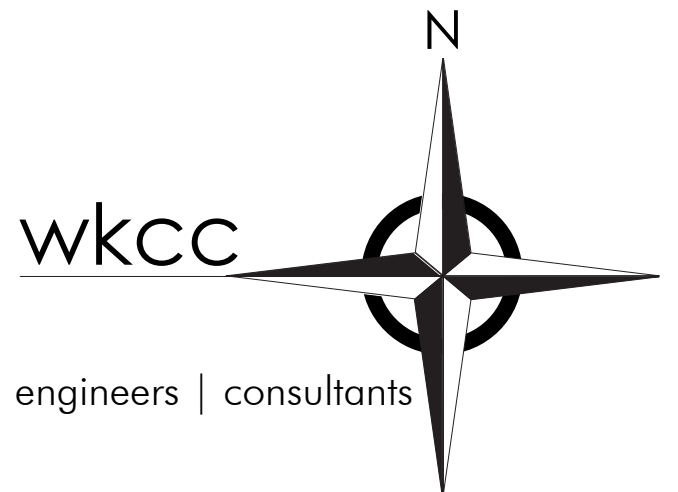
3. **Fill, Void or Cavity Material*** - Caulk or Sealant - Min 5/8, 1-1/4, 1-7/8 and 2-1/2 in. (16, 32, 48 and 64 mm) thickness of caulk for 1, 2, 3 and 4 hr rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min 1/4 in. (6 mm) diam bead of caulk applied to gypsum board/penetrant interface at point contact location on both sides of wall. The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

Max Pipe or Conduit Diam in (mm)	F Rating Hr	T Rating Hr
1 (25)	1 or 2	0+, 1 or 2
1 (25)	3 or 4	3 or 4
4 (102)	1 or 2	0
6 (152)	3 or 4	0
12 (305)	1 or 2	0

+When copper pipe is used, T Rating is 0 h.

3M COMPANY - CP 25WB+ or FB-3000 WT.

FOR FRAMED WALL ONLY
1,2,3, OR 4 HOUR PENETRATION
5 FIRESTOP DETAIL
M201 SCALE: NTS



WEST KEY CONSULTING CORPORATION
4008 BARRETT DR SUITE 204
RALEIGH NC 27609
919.881.8020
www.westkeyconsulting.com
C-1474



PIEDMONT COMMUNITY COLLEGE
1715 COLLEGE DRIVE
ROXBORO, NORTH CAROLINA 27573
SCO ID#: 23-26709-01A

REVISIONS:

#	DESCRIPTION:	DATE

SHEET NAME:
HVAC DETAILS

PHASE:
BID SET

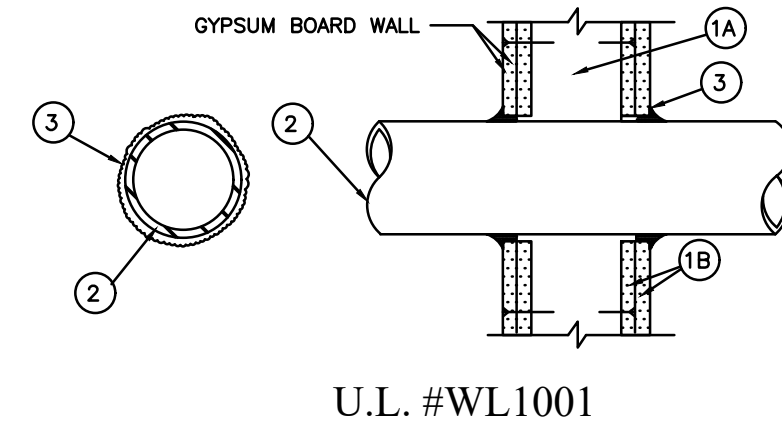
ISSUE DATE: 19 SEPT 2024
PROJECT #: #23030
DRAWN BY: JR

SHEET NUMBER

M201

GENERAL NOTES AND REQUIREMENTS.

- WORKMANSHIP SHALL CONFORM TO NECA PUBLICATION "STANDARDS OF INSTALLATION".
- INSTALLATION SHALL COMPLY WITH NATIONAL ELECTRICAL CODE, STATE BUILDING CODE, STATE CONSTRUCTION OFFICE ELECTRICAL GUIDELINES, THE ELECTRICAL SPECIFICATIONS, AND ALL REQUIREMENTS OF THE LOCAL INSPECTOR (FURNISH INSPECTION CERTIFICATE). ALL WORK SHALL BE BY LICENSED ELECTRICAL CONTRACTOR. FOR PROJECTS INVOLVING STATE AGENCIES INCLUDING THIS PROJECT, THE STATE CONSTRUCTION OFFICE HAS ELECTRICAL INSPECTION RESPONSIBILITY, AS NOTED IN NCGS 143-341(3)D. NO PROJECT IS EXEMPT FROM ELECTRICAL INSPECTION(S), REGARDLESS OF DOLLAR VALUE OR FUNDING SOURCE. ALL SCHEDULING OF ELECTRICAL INSPECTIONS WITH THE SCO ELECTRICAL INSPECTOR SHALL BE MONDAY THROUGH FRIDAY UNLESS SPECIFICALLY EXEMPTED AND APPROVED BY SCO.
- ALL MOUNTING HEIGHTS ARE GIVEN TO THE CENTERLINE OF THE DEVICE UNLESS OTHERWISE NOTED. RECEPTACLES, DATA AND TELEPHONE OUTLET TO BE MOUNTED 18" AFF UNLESS OTHERWISE NOTED. LIGHT SWITCHES TO BE MOUNTED 48" AFF UNLESS OTHERWISE NOTED.
- THE LOCATION OF ALL WALL MOUNTED DEVICES, INCLUDING MOUNTING HEIGHTS, SHALL BE FIELD VERIFIED WITH THE ENGINEER PRIOR TO INSTALLATION.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY DISCONNECTS, SWITCHES, AND RECEPTACLES UNDER THE ELECTRICAL BID AND SHALL INCLUDE ALL NECESSARY CIRCUITS TO AND FINAL CONNECTIONS TO THE EQUIPMENT PROVIDED BY ALL SUPPLIERS.
- ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED SO THAT ALL CODE-REQUIRED AND MANUFACTURER-RECOMMENDED SERVICING CLEARANCES ARE MAINTAINED. INSTALLATIONS SHALL FULLY COMPLY WITH NEC 110-26 FOR CLEARANCE REQUIREMENTS.
- COORDINATE LOCATIONS OF ALL LIGHT FIXTURES WITH THE REFLECTED CEILING PLANS. LIGHT FIXTURES INSTALLED IN MECHANICAL AREAS SHALL AVOID MECHANICAL PIPING, EQUIPMENT, DUCTWORK, ETC.
- GROUND SHALL BE PER N.E.C. PROVIDE SEPARATE GROUNDING CONDUCTOR FOR ALL CIRCUITS. PROVIDE DRYN AND COLD WATER GROUND FOR MAIN SERVICE.
- THE ELECTRICAL CONTRACTOR SHALL PATCH ANY WALL, CEILING, OR FLOOR OPENING AND PENETRATIONS RESULTING FROM DEMOLITION OR NEW WORK IN EXISTING AREAS.
- ALL WIRING SHALL BE CONCEALED IN METALLIC CONDUIT.
- ALL CIRCUITS SHALL BE TESTED WITH 500 VOLT TESTER PRIOR TO ENERGIZING.
- CONDUIT SHALL BE LABELED EVERY TEN FEET.
- ALL RECEPTACLE AND SWITCH PLATES SHALL BE LEGIBLY MARKED WITH LABEL MARKER TO CLEARLY INDICATE PANELBOARD ORIGIN AND CIRCUIT NUMBER. VERIFY IF LABEL SHOULD BE ON THE INSIDE OR OUTSIDE FACE OF COVERPLATE WITH OWNER/TENANT.
- PROVIDE PHENOLIC LABELS ON ALL MAJOR EQUIPMENT INCLUDING SWITCHBOARDS, MOTOR CONTROL CENTERS, PANELBOARDS, INDIVIDUAL STARTERS, SAFETY SWITCHES, AND TRANSFORMERS. PROVIDE ENGRAVED THREE-LAYER LAMINATED PLASTIC, WHITE LETTERS ON BLACK BACKGROUND.
- ALL CIRCUIT BREAKERS IN PANEL SHALL BE SERIES RATED WITH MAIN BREAKER OR FULLY RATED FOR THE SYSTEM.
- CONTRACTOR SHALL PROVIDE ENGINEER A MINIMUM OF 3 COPIES OF SHOP DRAWINGS FOR ALL ELECTRICAL COMPONENTS.
- AS USED ON THESE DOCUMENTS, THE WORD "PROVIDE" SHALL MEAN TO FURNISH AND INSTALL THE ITEM OR EQUIPMENT AND MAKE THE FINAL CONNECTION AS REQUIRED.
- OPERABLE DEVICES SHALL BE ACCESSIBLE IN COMPLIANCE WITH ANSI A117.1, SECTION 309, OPERABLE PARTS. WHERE GFI RECEPTACLES ARE NOT ACCESSIBLE, PROVIDE GFI BREAKER.
- UPON PROJECT COMPLETION, THE EC SHALL PROVIDE TYPED CIRCUIT DIRECTORIES FOR ALL NEW AND ALTERED PANELBOARDS WITH CIRCUIT DESIGNATIONS COMPLYING WITH THE REQUIREMENTS OF NEC 408.4(A).
- ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES AND EQUIPMENT SHALL BE LABELED AND LISTED BY A THIRD PARTY AGENCY. THE THIRD PARTY AGENCY SHALL BE AMONG THOSE ACCEPTABLE TO THE NC BUILDING CODE COUNCIL TO LABEL ELECTRICAL AND MECHANICAL EQUIPMENT.



1. Wall Assembly - The 1,2,3, or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs** - Wall framing may consist of either wood studs (max 2 h fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC with nom 2 by 4 in. lumber end plates and cross braces. Steel studs to be min 3-5/8 in. wide by 1-3/8 in. deep channels spaced max 24 in. OC.

B. **Wallboard, Gypsum*** - Nom 1/2 or 5/8 in. thick, 4ft. wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 13-1/2 in.

2. **Pipe or Conduit** - Nom 12 in. diam (or smaller) Schedule 10 (or heavier) steel pipe, nom 12 in. diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in. diam (or smaller) Class 50 (or heavier) ductile iron pressure pipe, nom 6 in. diam (or smaller) steel conduit, nom 4 in. diam (or smaller) steel electrical metallic tubing or Type L or (or heavier) copper tubing or nom 1 in. (or smaller) flexible steel conduit. When copper pipe or flexible steel conduit is used, max F Rating of freestop system (Item 3) is 2h. Steel pipes or conduits larger than nom 4 in. diam may only be used in wall constructed using steel channel studs. A max of one pipe or conduit is permitted in the freestop system. Pipe or conduit to be installed near center of stud cavity width and to be rigidly supported on both sides of wall assembly.

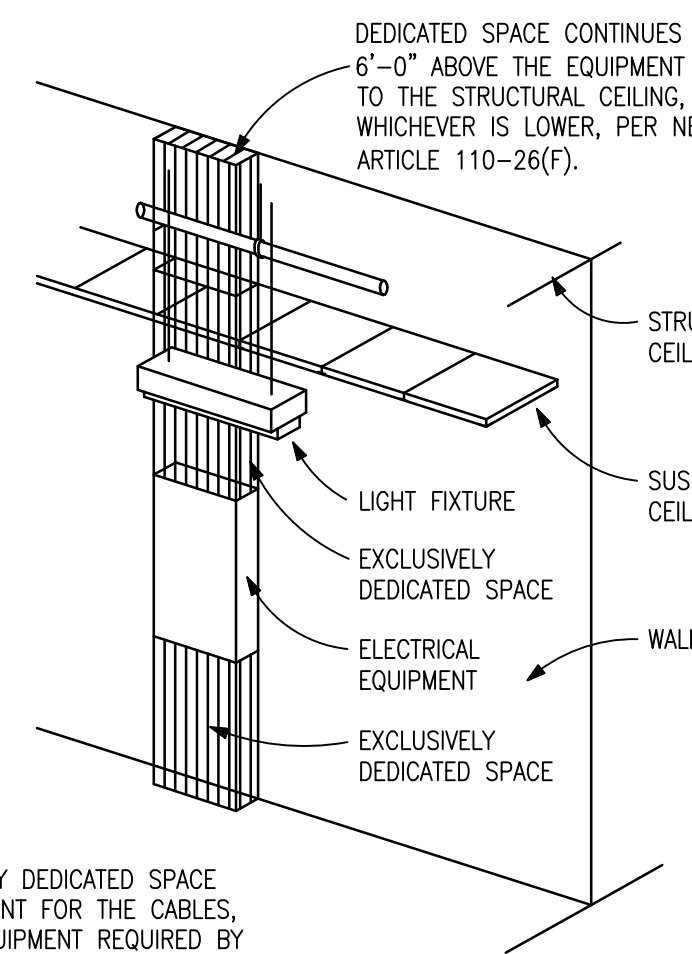
3. **Fill, Void or Cavity Material*** - Caulk - Caulk fill material installed to completely fill annular space between pipe or conduit and gypsum wallboard and with a min 1/4 in. diam bead of caulk applied to perimeter of pipe or conduit at its egress from the wall. Caulk installed symmetrically on both sides of wall assembly. The hourly F Rating of the freestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The T Rating of the freestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

Max Pipe or Conduit Diam, In	Annular Space, In	F Rating, Hr	T Rating, Hr
1	0 to 3/16	1 or 2	0+, 1 or 2
1	1/4 to 1/2	3 or 4	3 or 4
4	0 to 1/4	1 or 2	1 or 2
4	0 to 1-1/2#	1 or 2	0
6	1/4 to 1/2	3 or 4	0
12	3/16 to 3/8	1 or 2	0

+ When copper pipe is used, T Rating is 0 h
0 to 1-1/2 in. annular space applies only when Type CP-25 WB+ caulk is used.
Minnesota Mining & Mfg. Co. - Types CP-25 S/L, CP-25 N/S, CP-25 WB, CP-25 WB+.
(NOTE: L Rating apply only when Type CP-25 WB+ caulk is used.)
*Bearing the UL Classification Marking

5 RATED WALL PENETRATION DETAIL
E001 SCALE: NTS

ABBREVIATIONS	
A	AMPS, AMPERES
AIC	AMPS INTERRUPTING CURRENT
ATS	AUTOMATIC TRANSFER SWITCH
AF	AMP FUSE
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFC	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
BRKR	CIRCUIT BREAKER
BLDG	BUILDING
C	CONDUIT
CLG	CEILING
CTR	COUNTER — DEVICE MOUNTED ABOVE
DISC	DISCONNECT SWITCH
E	EXISTING TO REMAIN
EC	ELECTRICAL CONTRACTOR
ECB	ENCLOSED CIRCUIT BREAKER
EF	EXHAUST FAN
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ETR	EXISTING TO REMAIN
EX	EXISTING
FA	FIRE ALARM
GC	GENERAL CONTRACTOR
GFCI	GROUND FAULT CURRENT INTERRUPTER
G	GROUND
HP	HORSEPOWER
IMC	INTERMEDIATE METAL CONDUIT
JB	JUNCTION BOX
KW	KILOWATT
KVA	KILOVOLT-AMPERES
LTG	LIGHTING
MC	METAL CLAD CABLE
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
NA	NOT APPLICABLE
NCSCB	NORTH CAROLINA STATE BUILDING CODE
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOC.
NF	NON-FUSED
NL	NIGHT LIGHT — UNSWITCHED
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
MC	MECHANICAL CONTRACTOR
P	POLES
PC	PLUMBING CONTRACTOR
PH	PHASE
PNL	PANELBOARD
R	RELOCATED
SW	SHOW WINDOW RECEPT, 18" MAX ABOVE WINDOW
T	TAMPER RESISTANT RECEPTACLE
UL	UNDERWRITER'S LABORATORIES
USEUL	SERVICE ENTRANCE UNLESS OTHERWISE NOTED
V	VOLTS
W	WIRE
W/	WITH
W/O	WITHOUT
WP	WEATHERPROOF



NOTE: THIS FIGURE ILLUSTRATES THE ADDITIONAL EXCLUSIVELY DEDICATED SPACE REQUIRED OVER AND UNDER THE ELECTRICAL EQUIPMENT FOR THE CABLES, RACKWAYS, ETC., TO AND FROM THE ELECTRICAL EQUIPMENT REQUIRED BY SECTION 110.26(F) OF THE NATIONAL ELECTRICAL CODE.

1 DEDICATED SPACE FOR ELECTRICAL EQUIPMENT
E001 SCALE: NTS

TABLE "A" WORKING CLEARANCES

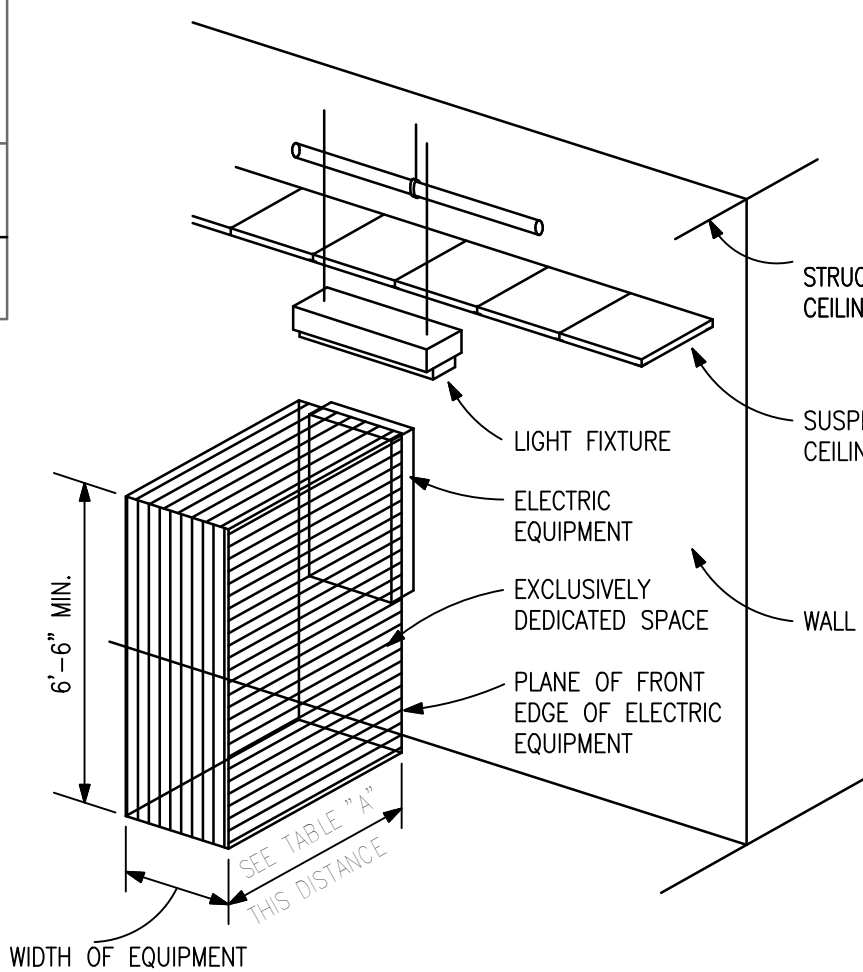
VOLTAGE TO GROUND, NOMINAL	MINIMUM CLEAR DISTANCE (FEET)		
	CONDITION: 1	2	3
0-150	3	3	3
151-600	3	3 1/2	4

WHERE THE "CONDITIONS" ARE AS FOLLOWS:

- EXPOSED LIVE PARTS ON ONE SIDE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES EFFECTIVELY GUARDED BY SUITABLE WOOD OR OTHER INSULATING MATERIALS. INSULATED WIRE OR INSULATED BUSBARS OPERATING AT NOT OVER 300 VOLTS SHALL NOT BE CONSIDERED LIVE PARTS.
- EXPOSED LIVE PARTS ON ONE SIDE AND GROUNDED PARTS ON THE OTHER SIDE.
- EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORK SPACE (NOT GUARDED AS PROVIDED IN CONDITION 1) WITH THE OPERATOR BETWEEN.

NOTE: THIS FIGURE ILLUSTRATES THE WORKING SPACE IN FRONT OF ELECTRICAL EQUIPMENT REQUIRED BY SECTION 110.26 OF THE NATIONAL ELECTRICAL CODE.

2 WORKING CLEARANCE FOR ELECTRICAL EQUIPMENT
E001 SCALE: NTS



ELECTRICAL SYSTEM AND EQUIPMENT (SECTION C405)

METHOD OF COMPLIANCE SECTION C405.1 ■

LIGHTING SCHEDULE

LAMP TYPE REQUIRED IN FIXTURE } SEE LIGHTING FIXTURE SCHEDULE
NUMBER OF LAMPS IN FIXTURE }
BALLAST TYPE USED IN FIXTURE }
NUMBER OF BALLASTS IN FIXTURE }
TOTAL WATTAGE PER FIXTURE }
TOTAL INTERIOR WATTAGE SPECIFIED VS ALLOWED: 1.5KW VS 2.4KW }
TOTAL EXTERIOR WATTAGE SPECIFIED VS ALLOWED: N/A-EXISTING }

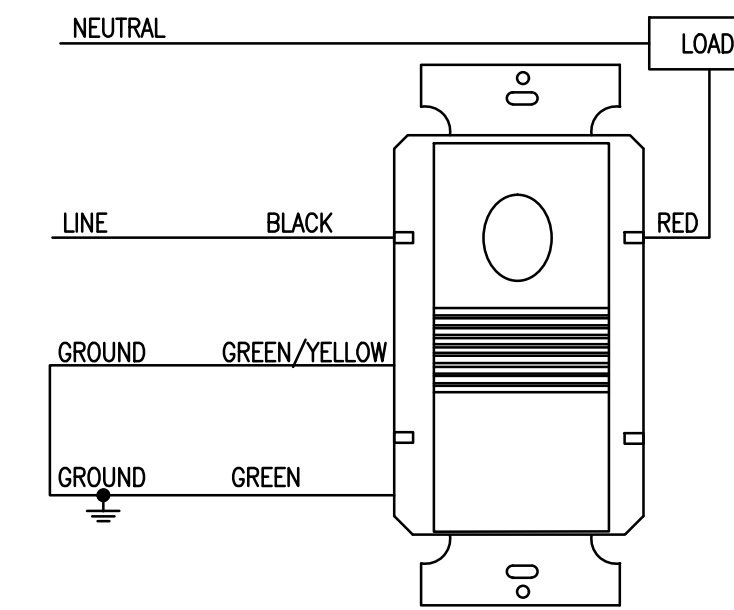
ADDITIONAL EFFICIENCY PACKAGE OPTIONS

C406.2 MORE EFFICIENT HVAC EQUIPMENT PERFORMANCE
 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

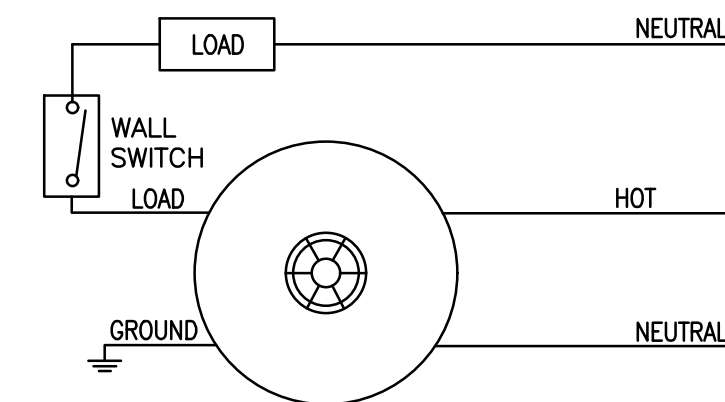
DESIGNER STATEMENT:

TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE ELECTRICAL SYSTEM AND EQUIPMENT REQUIREMENTS OF THE NORTH CAROLINA STATE BUILDING CODE, ENERGY CODE 2018 EDITION

NAME: _____ ANGUS M. CLARK PE
TITLE: _____ ELECTRICAL ENGINEER



4 OCC. SENSOR SWITCH WIRING DIAGRAM (TYP.)
E001 SCALE: NTS

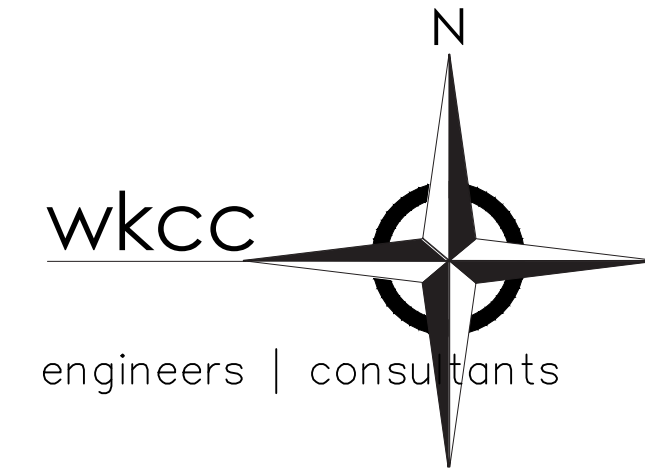


3 OCC. SENSOR SWITCH WIRING DIAGRAM (TYP.)
E001 SCALE: NTS

ELECTRICAL LEGEND

(ALL SYMBOLS MAY NOT BE USED ON THIS PROJECT)

- HOMERUN TO POWER SOURCE, 2#12, #12G 1/2" CU ON
- BRANCH CIRCUIT WIRING CONCEALED IN WALLS AND CEILINGS
- BRANCH CIRCUIT WIRING CONCEALED UNDER FLOOR OR GRND
- RECESSED LIGHT FIXTURE, REFER TO LUMINAIRE SCHEDULE
- DOWNLIGHT FIXTURE, REFER TO LUMINAIRE SCHEDULE
- WALL MOUNTED LIGHT FIXTURE, REFER TO LUMINAIRE SCHEDULE
- SURFACE MOUNTED LIGHT FIXTURE, REFER TO LUMINAIRE SCHEDULE
- EXIT SIGN, DIRECTIONAL ARROWS AS INDICATED. REFER TO SCHEDULE
- EMERGENCY LIGHT, REFER TO LUMINAIRE SCHEDULE
- EXIT/EMERGENCY LIGHT COMBINATION, REFER TO LUMINAIRE SCHEDULE
- DUPLEX RECEPTACLE
- QUADRUPLUX RECEPTACLE
- SIMPLEX RECEPTACLE, AMP RATING AS NOTED, OR MATCH BRKR SIZE
- GFCI RECEPTACLE
- WEATHERPROOF WHILE IN USE GFCI RECEPTACLE
- TAMPER RESISTANT RECEPTACLE
- SHOW WINDOW RECEPTACLE MOUNTED 18" MAX ABOVE WINDOW
- FLUSH MOUNTED FLOOR RECEPTACLE, CLOSED COVER WHILE-IN-USE
- FLUSH MOUNTED RECEPTACLE AND DATA, CLOSED COVER WHILE-IN-USE
- JUNCTION BOX FOR POWER CONNECTION
- EQUIPMENT POWER CONNECTION
- FUSED DISCONNECT SWITCH
- NON-FUSED DISCONNECT SWITCH
- PANELBOARD
- DRY TYPE TRANSFORMER
- SINGLE POLE SWITCH
- THREE WAY SWITCH
- FOUR WAY SWITCH
- WALL MOUNTED DUAL TECH OCCUPANCY SENSOR SWITCH (LINE VOLTAGE)
- CEILING OR WALL MOUNTED DUAL TECH OCCUPANCY SENSOR (LINE VOLTAGE)
- LOW VOLTAGE LIGHTING CONTROL SWITCH
- DIMMER SWITCH. 1500W SLIDER TYPE
- DIMMER SWITCH WITH DUAL TECHNOLOGY OCCUPANCY SENSOR
- WALL MOUNTED DECORATOR DIGITAL TIMER SWITCH WITH ON/OFF BUTTON, 48" AFF, 120/277V PROGRAMMABLE. INTERMATIC E1400 SERIES OR EQUAL.
- LIGHTING CONTACTOR, MECHANICALLY HELD
- LIGHTING CONTROL PANEL
- COMBINATION TELEPHONE/DATA OUTLET, EMPTY SINGLE GANG BOX WITH 3/4" C STUBBED ABOVE CEILING.
- CABLE TV OUTLET, EMPTY SINGLE GANG BOX WITH 3/4" C STUBBED ABOVE CEILING. COORDINATE EXACT MOUNTING HEIGHT WITH GC PRIOR TO ROUGH-IN.
- CARD READER ROUGH-IN, WITH EMPTY 3/4" C STUBBED ABOVE CEILING
- BUILDING GROUND CONNECTION POINT, 3/8" COPPER STUD WITH #6G WIRE ROUTED TO GROUND BUS AT SERVICE DISCONNECT
- PHOTOCELL, MOUNT WITH SENSOR FACING NORTH, EXACT LOCATION TO BE DETERMINED
- (X) EXISTING EQUIPMENT TO BE REMOVED
- (E) EXISTING EQUIPMENT TO REMAIN
- (R) EXISTING EQUIPMENT TO BE RELOCATED



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9/19/2024

PIEDMONT COMMUNITY COLLEGE
1715 COLLEGE DRIVE
ROXBORO, NORTH CAROLINA 27573
SCO ID#: 23-26709-01A

REVISIONS

#	DESCRIPTION:	DATE

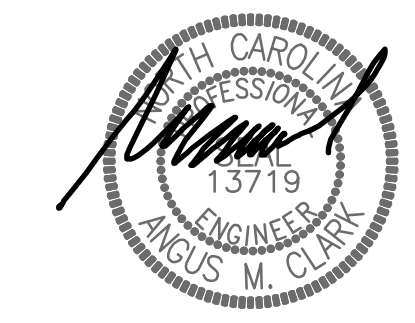
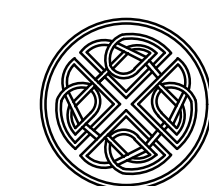
SHEET NAME:
ELECTRICAL COVER SHEET

PHASE:
BID SET

ISSUE DATE: 19 SEPT 2024
PROJECT #: 23030
DRAWN BY: CG

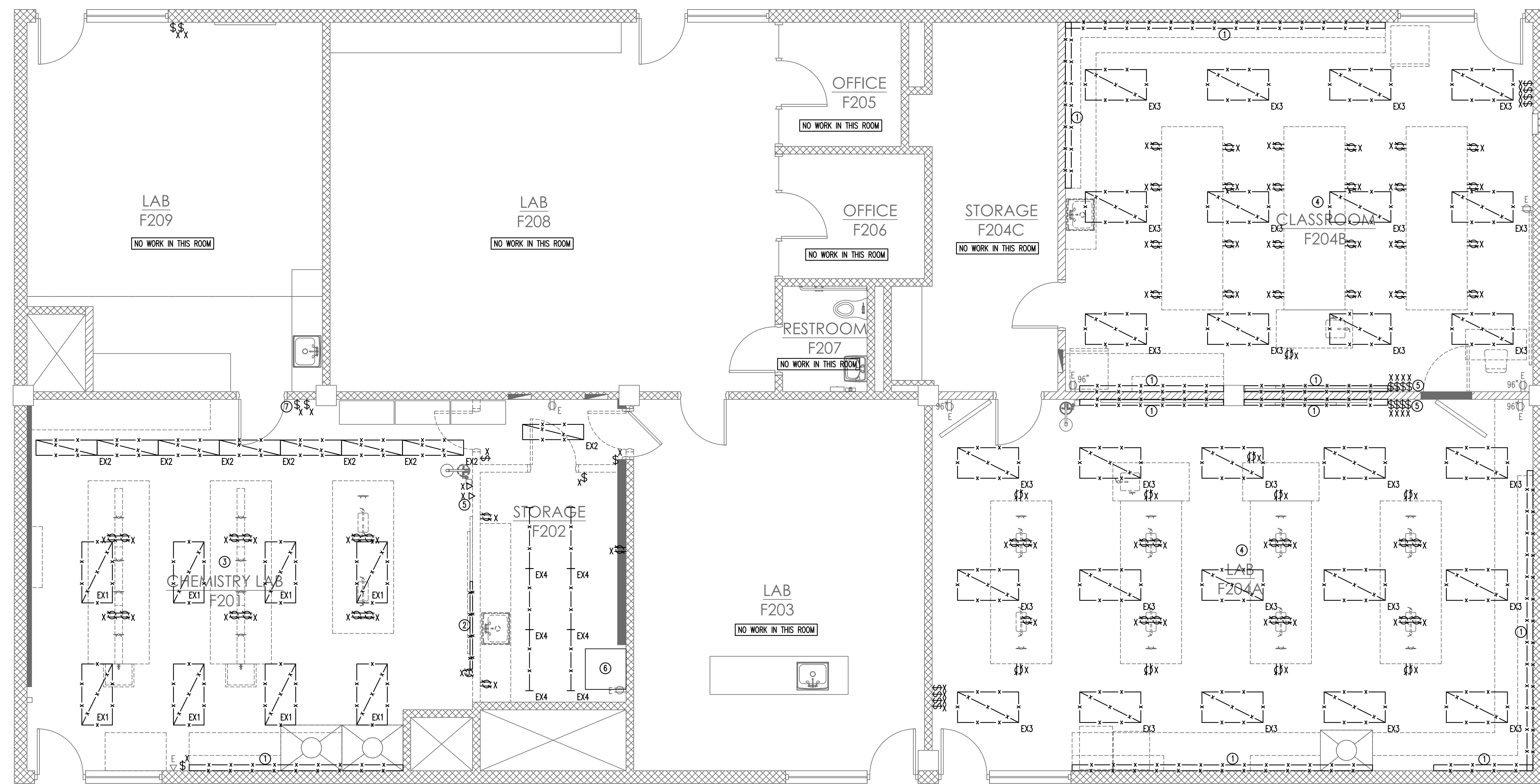
SHEET NUMBER

E001



9/19/2024

THE EXISTING INFORMATION SHOWN IS BASED ON PREVIOUS AS-BUILT DOCUMENTS AND FIELD INVESTIGATION. THERE ARE SOME ADDITIONAL DEVICES AND EQUIPMENT THAT IS EXISTING TO REMAIN. THE EC SHALL FIELD VERIFY EXISTING CONDITIONS AND EXISTING EQUIPMENT WITH OWNER PRIOR TO REMOVAL PROCESS. (TYPICAL FOR ALL LIGHTING AND POWER COMPONENTS)



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SHEET NAME:
ELECTRICAL DEMO PLAN

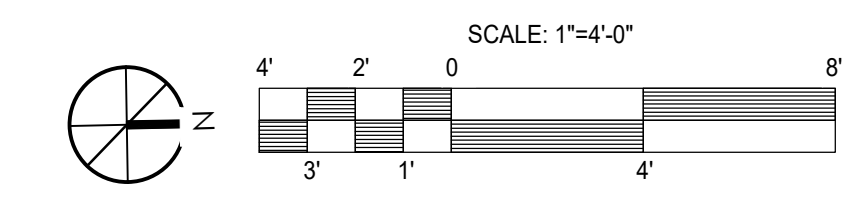
PHASE:
BID SET

ISSUE DATE: 19 SEPT 2024
PROJECT #: 23030
DRAWN BY: CG

SHEET NUMBER

1 ELECTRICAL DEMO PLAN
E101 SCALE: 1/4" = 1'-0"

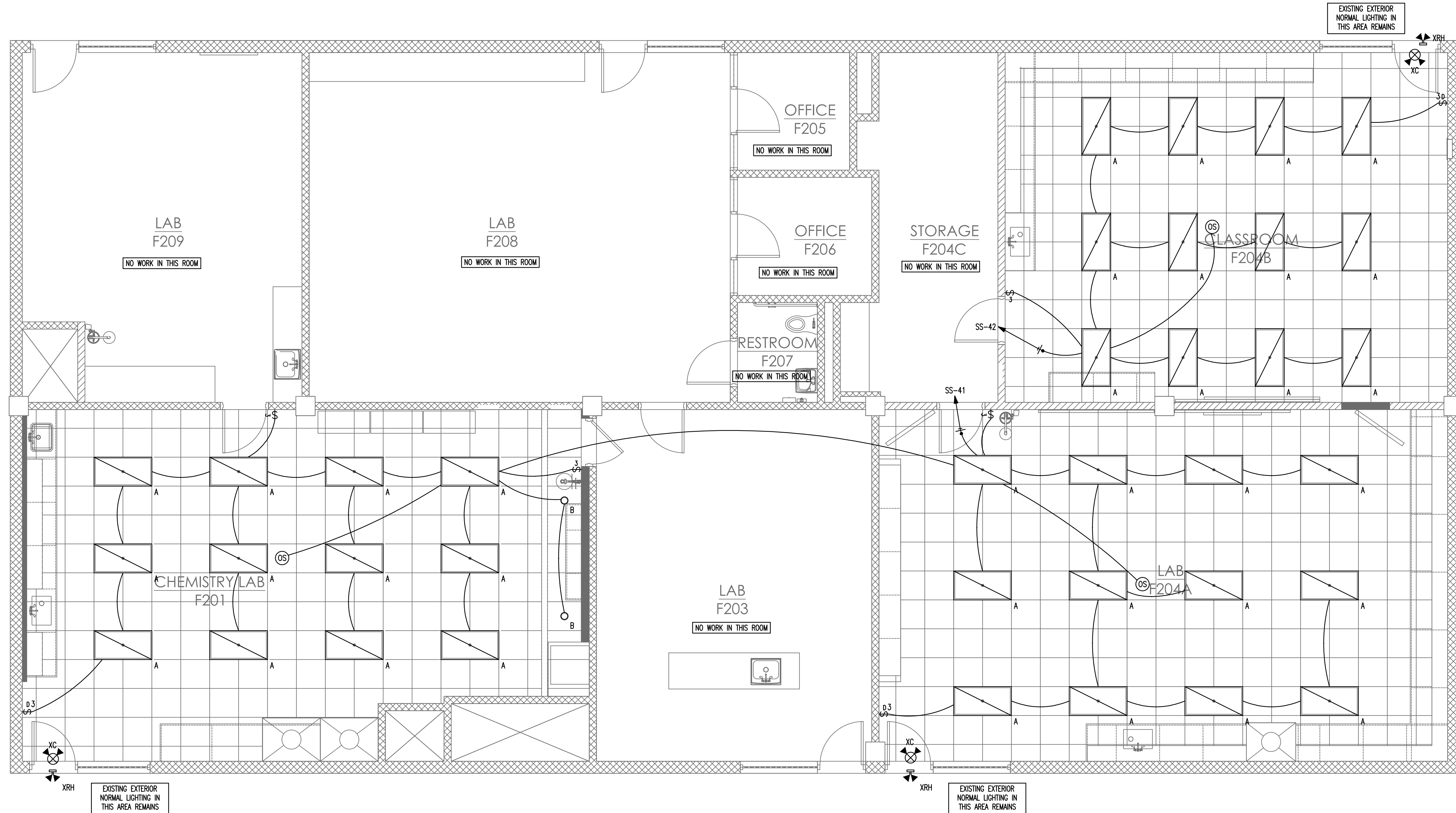
- KEY NOTES:
- 1 DEMOLISH EXISTING SURFACE DIVIDED RACEWAY (POWER/COMM).
 - 2 DEMOLISH EXISTING PLUGMOLD.
 - 3 DEMOLISH 20 EXISTING ABANDONED 4' FLUORESCENT STRIP LIGHTS ABOVE EXISTING LAY-IN CEILING IN THIS ROOM. REMOVED ALL EXISTING ABANDONED DEVICES, CONDUIT AND WIRING BACK TO SOURCE.
 - 4 REMOVE ALL EXISTING RECEPTACLES ABOVE EXISTING LAY-IN CEILING IN THIS ROOM (INCLUDING ASSOCIATED WIRING/CONDUIT). TWO RECEPTACLES WERE FOUND DURING NON-INVASIVE FIELDWORK, BUT ADDITIONAL DEVICES MAY BE PRESENT AND VISIBLE AS CEILING IS REMOVED.
 - 5 EXISTING GAS ALARM IN THIS LOCATION REMAINS, INCLUDING ASSOCIATED WIRING/CONDUIT.
 - 6 EXISTING DATA CABINET, CABLE TRAY & ASSOCIATED COMM. CONDUITS/CABLES SHALL REMAIN IN PLACE AND BE PROTECTED DURING CONSTRUCTION. ATTACH THE CABLE TRAY TO THE STRUCTURE ABOVE DURING DEMOLITION AND COORDINATE ALL WORK WITH THE GC AND OWNER TO ENSURE NO WIRING, CONDUIT OR EQUIPMENT IS DAMAGED DURING CONSTRUCTION.
 - 7 CONFIRM IF EXISTING MOTOR CONTROL SWITCH LOCATED NEAR CEILING IS IN USE. REMOVE IF NO LONGER NEEDED.



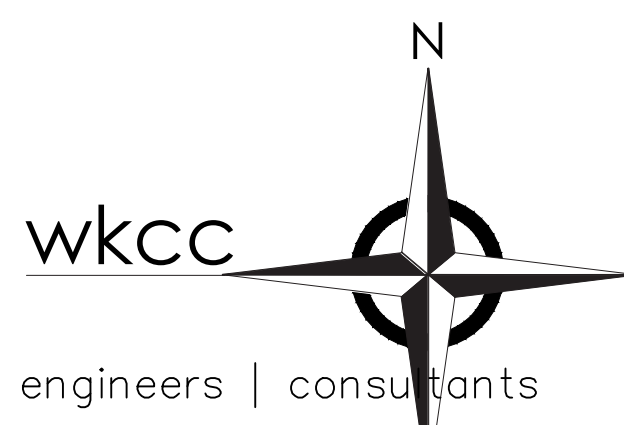
E101

GENERAL NOTES:

- EXIT, EMERGENCY AND NIGHT LIGHTS (NL) SHALL BE CONNECTED "UNSWITCHED" TO LIGHTING CIRCUIT SERVING ROOM WHERE THEY ARE LOCATED (TYPICAL)



1 LIGHTING PLAN
E201 SCALE: 1/4" = 1'-0"



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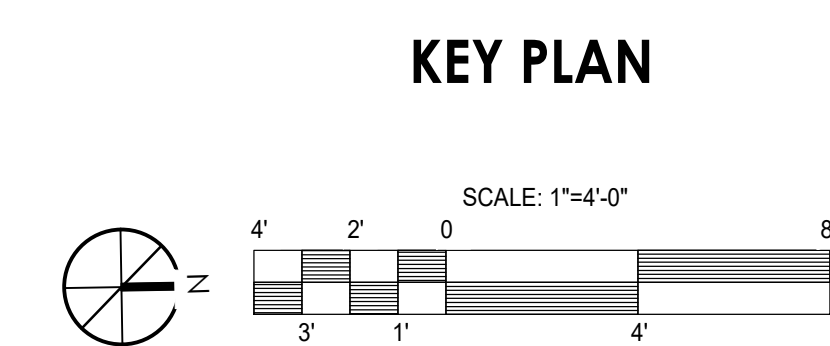
SHEET NAME:
LIGHTING PLAN

PHASE:
BID SET

ISSUE DATE: 19 SEPT 2024
PROJECT #: 23030
DRAWN BY: CG

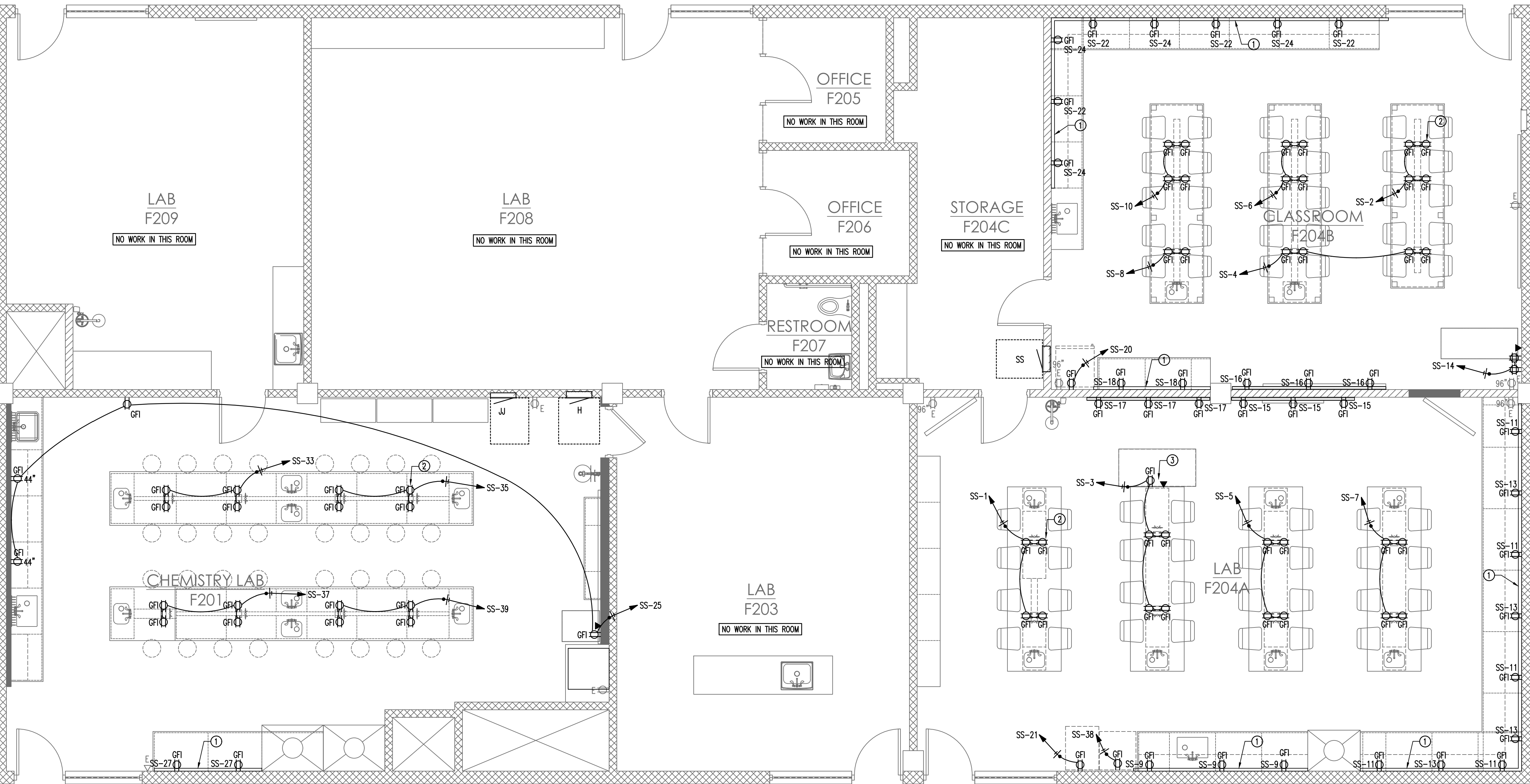
SHEET NUMBER

E201



GENERAL NOTES:

- COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF ALL DEVICES WITH OWNER PRIOR TO ROUGH-IN (TYPICAL).

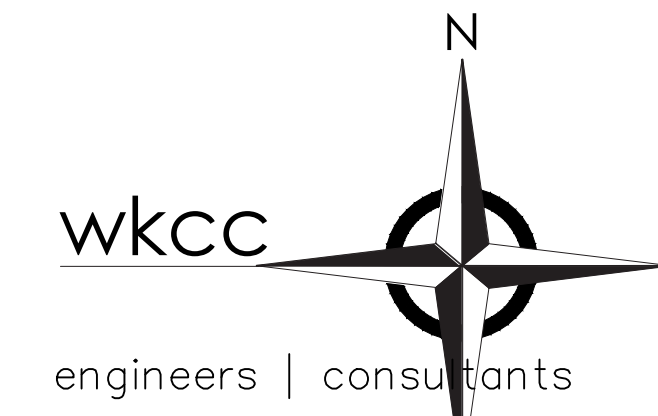
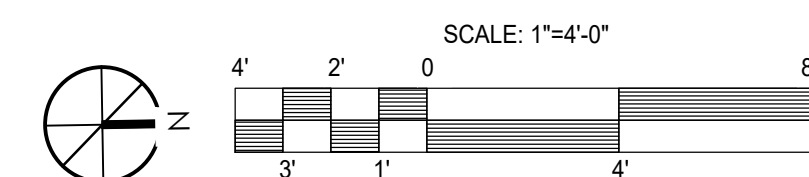


KEY NOTES:

- SURFACE METAL POWER RACEWAY, 2.75" HIGH X 1.5" DEEP X (LENGTH AS SHOWN), WHITE FINISH, STEEL, WITH RECESSED RECEPTACLES AS SHOWN. (WIREMOLD 3000 SERIES, OR EQUAL BY THOMAS & BETTS, OR HOFFMAN).
- RECEPTACLES AT LAB TABLES SHALL BE MOUNTED ON TOP OF TABLES, TOMBSTONE TYPE, GFI DUPLEX RECEPTACLES WITH TWO USB CHARGER PORTS (TYPICAL).
- DEVICES AT END OF LAB TABLES SHALL BE RECESS MOUNTED IN CASEWORK (TYPICAL). RECEPTACLE SHALL BE GFI DUPLEX TYPE WITH TWO USB CHARGER PORTS.

1 POWER PLAN
E301 SCALE: 1/4" = 1'-0"

KEY PLAN



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SCO ID#: 23-26709-01A

REVISIONS		
#	DESCRIPTION	DATE

SHEET NAME:
POWER PLAN

PHASE:
BID SET

ISSUE DATE: 19 SEPT 2024
PROJECT #: 23030
DRAWN BY: CG

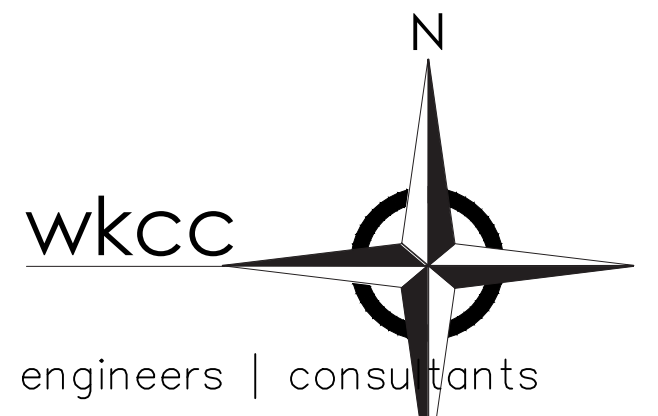
SHEET NUMBER

E301

CALLOUT	SYMBOL	DESCRIPTION	MODEL	LAMP	BALLAST	MOUNTING	INPUT WATTS	VOLTS	NOTE 1
A		2'x4' ARCHITECTURAL TROFFER	COLUMBIA #LCAT24-35-ML-G-ED-U, LITHONIA AVANTE #2AVL4-50LSE-MDR-GZ10-LP835, WILLIAMS #WGS24-L50-8-35	(1) LED		RECESSED	39	120V 1P 2W	
B		6" ROUND LED DOWNLIGHT	PRESCOLITE #LFR-6RDS-M-15L-35K-8-MD-DM01-S-WT-H, LITHONIA #LDN615LM-SWW1-35K-L06-AR-LSS-MVOLT-UGZ, WILLIAMS #6DR-TL-L15-8-35K-DIM1-UNV-O-M-OF-CS-MWT-N-F1	(1) LED		RECESSED	19	120V 1P 2W	
EX1		EXISTING 2'x4' LENSED TROFFER	EXISTING TO BE REMOVED	(2) T12 F40		RECESSED	85	MULTIPLE	
EX2		1' LENSED TROFFER	EXISTING TO BE REMOVED	(2) T12 F40		RECESSED	85	MULTIPLE	
EX3		EXISTING 2'x4' PARABOLIC TROFFER	EXISTING TO BE REMOVED	(4) T8 F32		RECESSED	128	MULTIPLE	
EX4		4' STRIP LIGHT	EXISTING TO BE REMOVED	(2) T12 F40		RECESSED	85	MULTIPLE	
XC		EXIT / EMERGENCY LIGHT	COMPASS #CCR, LITHONIA #LHOMLEDRM6, PROGRESS LIGHTING #PECUEUR30	LED	BATTERY	WALL/CEILING	4	MULTIPLE	UNSWITCHED
XRH		EMERGENCY LIGHT (REMOTE HEAD)	COMPASS #CORD, LITHONIA #EREGYTPRD, PROGRESS LIGHTING #PERHDBD30	LED	BATTERY	WALL/CEILING	2	MULTIPLE	UNSWITCHED, COMPATIBLE WITH & CONNECTED TO INTERIOR UNIT

GENERAL LIGHTING FIXTURE SCHEDULE NOTES:

1. FIXTURES OF EQUAL QUALITY MAY BE SUBMITTED. ALL FINAL FIXTURE TYPES, FINISHES AND ANY SUBSTITUTIONS SHALL BE REVIEWED/APPROVED BY ARCHITECT PRIOR TO RELEASE.
2. ALL EXIT, EMERGENCY & NIGHT LIGHTS (NL) SHALL BE CONNECTED "UNSWITCHED" TO LIGHTING CIRCUIT SERVING ROOM WHERE THEY ARE LOCATED.
3. COORDINATE EXACT LOCATION & MOUNTING HEIGHT WITH PLUMBING & MECHANICAL CONTRACTORS SO THAT FIXTURE IS SUSPENDED BELOW PIPING & DUCTWORK.
4. SEE ARCHITECTURAL ELEVATIONS & COORDINATE WITH GC FOR MOUNTING HEIGHTS.



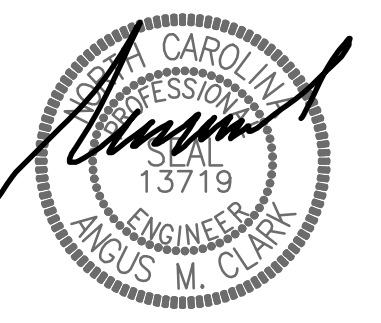
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#	DESCRIPTION	DATE

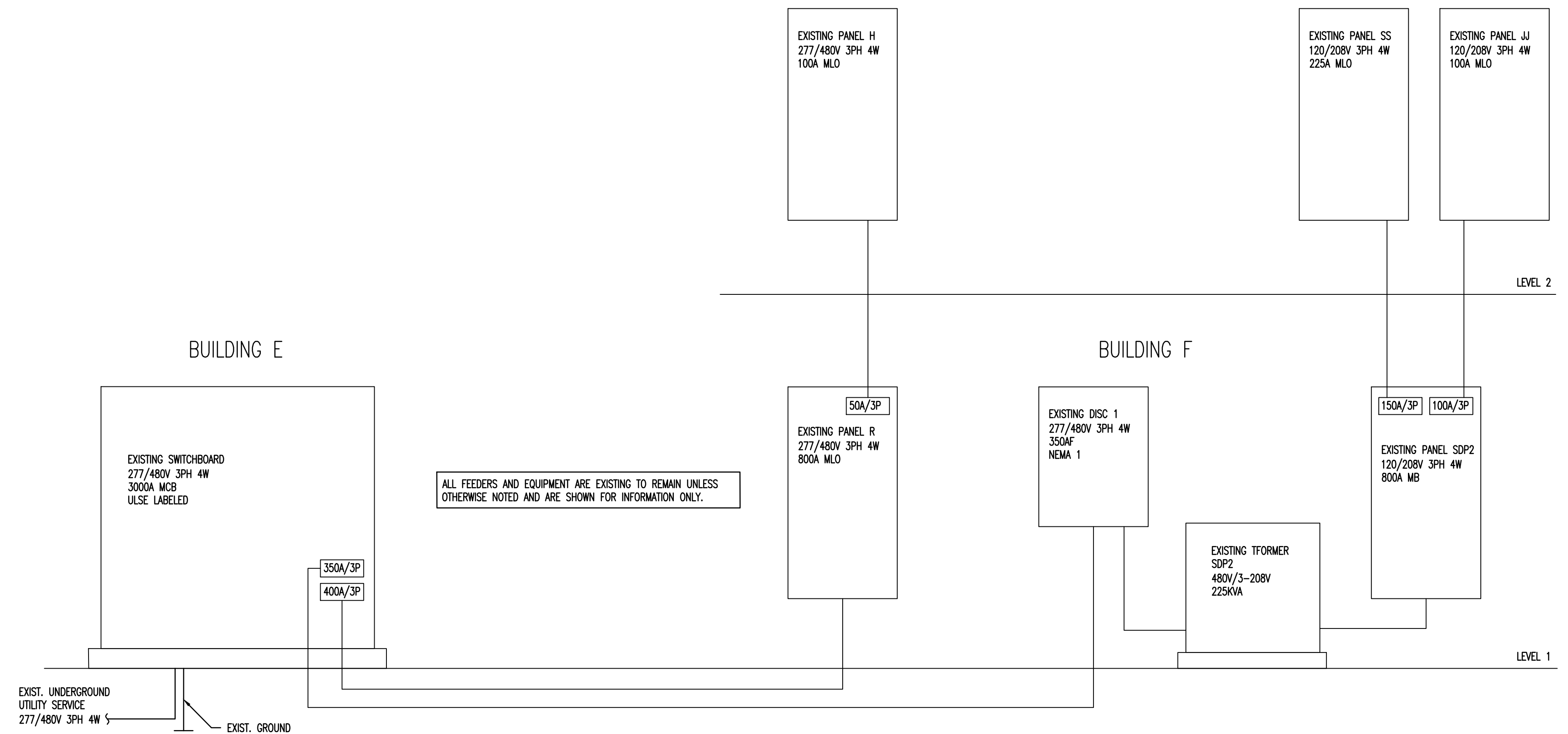
SHEET NAME:
 RISER, SCHEDULES & DETAILS

PHASE:
 BID SET

ISSUE DATE: 19 SEPT 2024
 PROJECT #: 23030
 DRAWN BY: CG

SHEET NUMBER

E401



1 PARTIAL RISER DIAGRAM
 E401 SCALE: NTS

SS		ROOM MOUNTING SURFACE			VOLTS 208Y/120V 3P 4W			AIC EXISTING									
FED FROM SDP2		BUS AMPS 225			NEUTRAL 100%			MAIN BKR MLO									
NOTE					LUGS STANDARD												
CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA			CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA								
			A	B	C				A	B	C						
1	20/1	RECEPTACLE	0.72			2	20/1	RECEPTACLE	0.72								
3	20/1	RECEPTACLE		0.90		4	20/1	RECEPTACLE		0.72							
5	20/1	RECEPTACLE			0.72	6	20/1	RECEPTACLE			0.72						
7	20/1	RECEPTACLE	0.72			8	20/1	RECEPTACLE	0.36								
9	20/1	RECEPTACLE		0.54		10	20/1	RECEPTACLE		0.72							
11	20/1	RECEPTACLE			0.90	12	-/1	SPACE			0.00						
13	20/1	RECEPTACLE	0.72			14	20/1	RECEPTACLE	0.72								
15	20/1	RECEPTACLE		0.54		16	20/1	RECEPTACLE		0.54							
17	20/1	RECEPTACLE			0.54	18	20/1	RECEPTACLE			0.36						
19	20/1	EXIST. RECEPT RM 203	0.72			20	20/1	REFRIGERATOR	1.20								
21	20/1	REFRIGERATOR		1.20		22	20/1	RECEPTACLE		0.72							
23	20/1	EXIST. RECEPT RM 203			0.72	24	20/1	RECEPTACLE			0.72						
25	20/1	RECEPTACLE	0.72			26	-/1	SPACE	0.00								
27	20/1	RECEPTACLE		0.36		28	-/1	SPACE		0.00							
29	50/2	EXIST. STERILIZER			4.15	30	-/1	SPACE			0.00						
31			4.15			32	-/1	SPACE	0.00								
33	20/1	RECEPTACLE		0.72		34	20/1	EXIST. DATA RACK RECEPTACLE		0.18							
35	20/1	RECEPTACLE			0.72	36	20/1	EXIST. DATA RACK RECEPTACLE			0.18						
37	20/1	RECEPTACLE	0.72			38	20/1	REFRIGERATOR	1.20								
39	20/1	RECEPTACLE		0.72		40	20/1	EXIST. GAS ALARM LIGHTING		0.20							
41	20/1	LIGHTING			0.97	42	20/1				0.47						
TOTAL CONNECTED KVA BY PHASE									12.67	8.06	11.17						
LIGHTING			CONN KVA 1.44			CALC KVA 1.80 (125%)			RECEPTACLES NONCONTINUOUS 18.36			CONN KVA 14.18			CALC KVA 12.10 (50%>10) (100%)		
									TOTAL LOAD 28.08			BALANCED 3-PHASE LOAD 77.95 A					

GENERAL PANELBOARD NOTES:

1. *EXIST. - INDICATES BREAKER/CIRCUIT IS EXISTING TO REMAIN. ALL OTHER BREAKERS/CIRCUITS SHOWN ARE NEW.
2. PROVIDE BLANK FILLER COVERS OVER EMPTY BREAKER SLOTS.
3. ALL UNUSED BREAKERS SHALL BE TURNED TO THE "OFF" POSITION & LABELED AS "SPARES" ACCORDINGLY.
4. ALL 120V SINGLE-PHASE, 15- & 20- AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS OR DEVICES SHALL BE PROTECTED BY ARC-FAULT CIRCUIT-INTERRUPTER PER NEC 210.12.

NOTE: UPON PROJECT COMPLETION, THE EC SHALL PROVIDE TYPED CIRCUIT DIRECTORIES FOR ALL NEW AND ALTERED PANELBOARDS WITH CIRCUIT DESIGNATIONS COMPLYING WITH THE REQUIREMENTS OF NEC 408.4(A).