



# LOWRY HALL

## RENOVATE FIRST FLOOR

FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

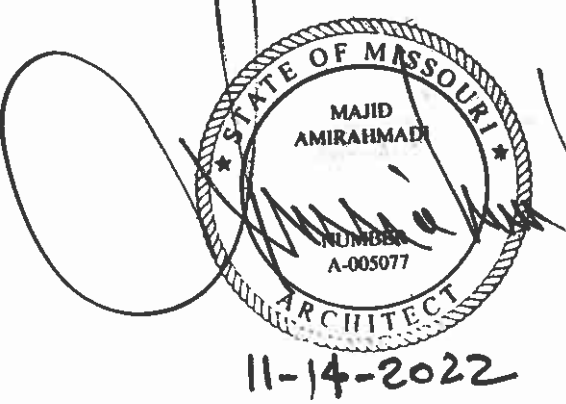
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11/14/2022

CP220811

**INTERNATIONAL ARCHITECTS ATELIER**

I HEREBY CERTIFY THAT DRAWINGS AND/OR SPECIFICATIONS HAVE BEEN PREPARED BY ME,  
OR UNDER MY SUPERVISION. I FURTHER CERTIFY THAT TO THE BEST OF MY KNOWLEDGE  
THESE DRAWINGS AND/OR SPECIFICATIONS ARE AS REQUIRED BY AND IN COMPLIANCE WITH  
BUILDING CODES OF THE UNIVERSITY OF MISSOURI.

  
11-14-2022  
MAJID AMIRAHMADI, AIA  
INTERNATIONAL ARCHITECTS ATELIER

11/11/2022 4:52:12 PM

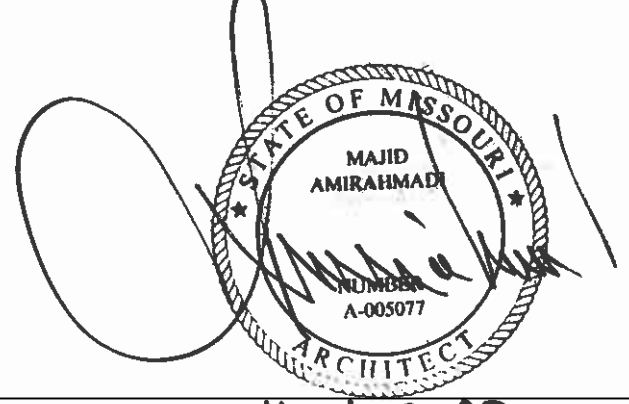
1. ALL WORK SHALL COMPLY WITH FEDERALLY MANDATED ADA, ALL APPLICABLE CODES, AND STANDARDS.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS, ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND DRAWINGS SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ARCHITECT PRIOR TO CONSTRUCTION. ALL DIMENSIONS OF EXISTING CONSTRUCTION ARE TO PROVIDE THE CONTRACTOR WITH APPROXIMATE SIZES AND ARE NOT INTENDED TO BE USED FOR CONSTRUCTION PURPOSES. ALL DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
3. CONTRACTOR SHALL USE EXTREME CARE AND TAKE PRECAUTION DURING CONSTRUCTION SO AS NOT TO DAMAGE EXISTING ADJACENT FACILITIES. ANY DAMAGE DONE TO EXISTING FACILITIES DURING CONSTRUCTION SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER WITHOUT ADDITIONAL COST TO THE OWNER.
4. ALL DIMENSIONS ARE NOMINAL AND ARE FINISH TO FINISH OR FACE TO FACE OF CONSTRUCTION UNLESS OTHERWISE NOTED.
5. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL PATCH OR REPAIR, PAINT OR RESTORE AND REFINISH (AS APPLIES) ALL ADJACENT SURFACES AFFECTED BY NEW CONSTRUCTION OR DEMOLITION.
6. CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS. COORDINATE DUMPSTER LOCATION AND ACCESS WITH THE OWNER AS REQUIRED.
7. SHOULD ANY DOUBT OR QUESTION ARISE WITH RESPECT TO THE TRUE MEANING OF THE DRAWINGS OR SPECIFICATIONS, REFERENCE SHALL BE MADE TO THE ARCHITECT WHOSE DECISIONS THEREON SHALL BE FINAL AND CONCLUSIVE.
8. CONTRACTOR SHALL NOT ENGAGE IN ANY ACTIVITY WHICH MAY ENDANGER THE PUBLIC.
9. CONTRACTOR IS REQUIRED, PRIOR TO THE START OF CONSTRUCTION, TO SURVEY THE AREAS WHICH WOULD BE AFFECTED BY THE CONSTRUCTION FOR DOCUMENTATION OF EXISTING DAMAGES.
10. CONTRACTOR IS ALLOWED TO STORE MATERIALS ONLY IN DESIGNATED LOCATIONS AS APPROVED BY THE OWNER REPRESENTATIVE.
11. CONTRACTOR IS REQUIRED TO PROVIDE EQUIPMENT AND TOOLS REQUIRED OR NECESSARY FOR THE OWNER, ARCHITECT, AND ENGINEER TO REVIEW THE CONSTRUCTION IN PROGRESS AND DURING INSPECTIONS.
12. CONTRACTOR SHALL PROVIDE TEMPORARY LIGHTS DURING THE CONSTRUCTION OF THE PROJECT AS REQUIRED FOR THE SAFETY AND SECURITY OF THE PUBLIC FOR ALL AREAS AFFECTED BY CONSTRUCTION AS REQUIRED TO ACHIEVE MIN 1/2 FOOT CANDLE LIGHT LEVEL.
13. CONTRACTOR IS RESPONSIBLE TO MAINTAIN AND PROTECT THE REQUIRED FIRE EXITS AND ROUTE TO THOSE EXITS AT ALL TIMES.

## GENERAL NOTES | X27

1. PRIOR TO COMMENCING DEMOLITION WORK, THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EXISTING UTILITIES AND MAKE PROVISION THAT NO INTERRUPTION OF SERVICES OCCUR TO OTHER BUILDING TENANTS. COORDINATE ANY SERVICE INTERRUPTIONS WITH OWNER.
2. ALL MATERIALS NOT REQUIRED TO BE REMOVED FOR THE EXECUTION OF THE PROJECT SHALL BE LEFT IN PLACE AND PROTECTED FROM DAMAGE DURING DEMOLITION. ANY ITEMS DAMAGED DURING DEMOLITION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
3. THE OWNER ASSUMES NO RESPONSIBILITY FOR ACTUAL CONDITIONS OF ITEMS TO BE DEMOLISHED.
4. CUT AND REMOVE/REPLACE ALL PORTIONS OF EXISTING CONSTRUCTION AS REQUIRED TO ALLOW ACCESS TO ITEMS NOTED FOR DEMOLITION AND FOR PROPER INSTALLATION OF NEW CONSTRUCTION.
5. AT ANY TIME DURING DEMOLITION, IF ANY CONTRACTOR DISCOVERS HAZARDOUS MATERIALS, STOP WORK AND NOTIFY THE OWNER AND ARCHITECT IMMEDIATELY.
6. LEAVE ALL MAJOR STRUCTURAL COLUMNS AND BEAMS UNDISTURBED. CONTRACTOR SHALL SURVEY THE CONDITION OF THE BUILDING TO DETERMINE WHETHER REMOVING ANY ELEMENT MIGHT RESULT IN STRUCTURAL DEFICIENCY OR UNPLANNED COLLAPSE OF ANY PORTION OF THE STRUCTURE REMAINING. IF ANY SUCH CONDITION EXISTS, OR RESULTS DURING THE PROCESS OF DEMOLITION, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AND ARCHITECT IMMEDIATELY.
7. ALL DASHED LINES ON DRAWINGS INDICATE ITEMS TO BE REMOVED, U.N.O.
8. ALL DEMOLITION MUST REMAIN INSIDE CONSTRUCTION LIMITS, U.N.O.
9. RETAIN AND PROTECT ALL SALVAGEABLE MATERIALS SELECTED BY OWNER AND ARCHITECT FOR REUSE ELSEWHERE. CONTRACTOR SHALL CATALOG ALL MATERIAL REMOVED FOR SALVAGE WITH ORIGINAL LOCATION AND LOCATION OF STORAGE. ALL SALVAGED MATERIALS SHALL BE CLEANED AND STORED IN A DRY PLACE ON THE SITE, ELEVATED OFF THE GROUND WITH ADEQUATE AIR FLOW AND PROTECTION FROM THE WEATHER AS NECESSARY.
10. NEATLY CUT OPENINGS AND HOLES PLUMB, SQUARE AND TRUE TO DIMENSIONS REQUIRED. USE CUTTING METHODS LEAST LIKELY TO DAMAGE CONSTRUCTION TO REMAIN/ADJOINING CONSTRUCTION.
11. CONTRACTOR SHALL COMPLETELY REMOVE ALL DEMOLISHED MATERIALS FROM SITE. ALL DEMOLISHED MATERIALS WILL BECOME PROPERTY OF THE CONTRACTOR UNLESS THEY ARE TO BE REUSED, OR AS OTHERWISE NOTED OR INSTRUCTED, AND TO BE DISPOSED OF LEGALLY. REMOVE DEBRIS, RUBBISH, AND OTHER MATERIALS DAILY FROM CONSTRUCTION SITE.
12. CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK REQUIRED FOR ONE TRADE WITH OTHER TRADES THAT WILL BE AFFECTED BY THAT WORK.

## GENERAL DEMOLITION NOTES | Q27

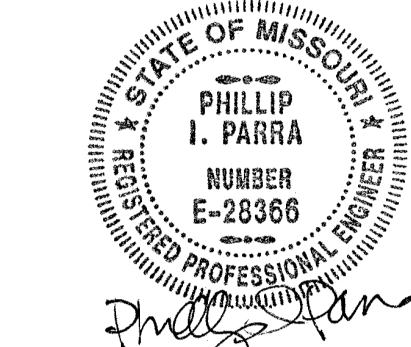
I, MAJID AMIRAHMADI, MISSOURI REGISTERED ARCHITECT, DO HEREBY ACCEPT PROFESSIONAL RESPONSIBILITY FOR THE ATTACHED ARCHITECTURAL DRAWINGS. I HEREBY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER DRAWINGS INCLUDED IN THIS SET OF CONSTRUCTION DOCUMENTS, THEY BEING THE RESPONSIBILITY OF OTHER PROFESSIONALS.



MAJID AMIRAHMADI, AIA  
INTERNATIONAL ARCHITECTS ATELIER

## PROFESSIONAL DISCLAIMER | H27

I, PHILLIP I. PARRA, MISSOURI REGISTERED ENGINEER, DO HEREBY ACCEPT PROFESSIONAL RESPONSIBILITY FOR THE ATTACHED MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. I HEREBY DISCLAIM ANY RESPONSIBILITY FOR ALL OTHER DRAWINGS INCLUDED IN THIS SET OF CONSTRUCTION DOCUMENTS, THEY BEING THE RESPONSIBILITY OF OTHER PROFESSIONALS.



PHILLIP I. PARRA, PE  
IMEG CORP.

## PROFESSIONAL DISCLAIMER | B27

### SHEET INDEX - GENERAL

G000 COVER SHEET  
G001 GENERAL INFORMATION  
G002 LIFE SAFETY PLAN / CODE ANALYSIS

### SHEET INDEX - ARCHITECTURAL

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D400 1ST FLOOR CEILING DEMOLITION PLAN  
D800 DEMOLITION PHOTOGRAPHS  
A001 WALL TYPES  
A100 1ST FLOOR PLAN  
A400 1ST FLOOR CEILING PLAN  
A420 CEILING DETAILS  
A600 INTERIOR ELEVATIONS  
A610 CASEWORK DETAILS  
A620 FINISH SCHEDULE & DETAILS  
A700 DOOR SCHEDULE & DETAILS  
A710 WINDOW SCHEDULE & DETAILS

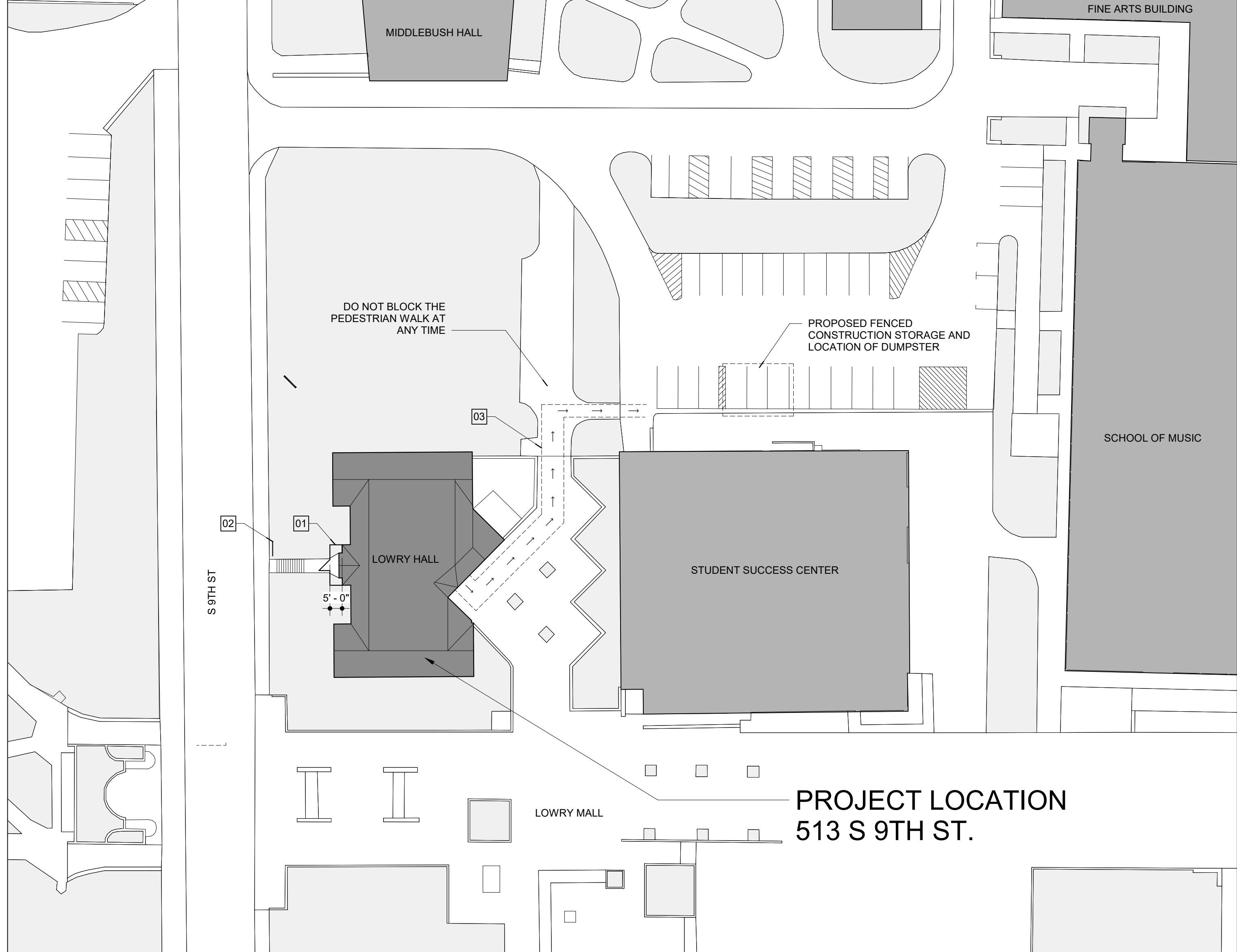
### SHEET INDEX - MECHANICAL & PLUMBING

M000 MECHANICAL COVERSHEET  
P200 LEVEL 00 PLAN - PLUMBING  
P201 LEVEL 01 PLAN - PLUMBING  
P600 PLUMBING MATERIALS LIST AND DETAILS  
M101 LEVEL 01 DEMOLITION PLAN - MECHANICAL  
M201 LEVEL 01 PLAN - PIPING  
M202 LEVEL 02 PLAN - PIPING  
M211 LEVEL 01 PLAN - VENTILATION  
M400 MECHANICAL DETAILS  
M500 MECHANICAL DIAGRAMS  
M600 MECHANICAL SCHEDULES

### SHEET INDEX - ELECTRICAL

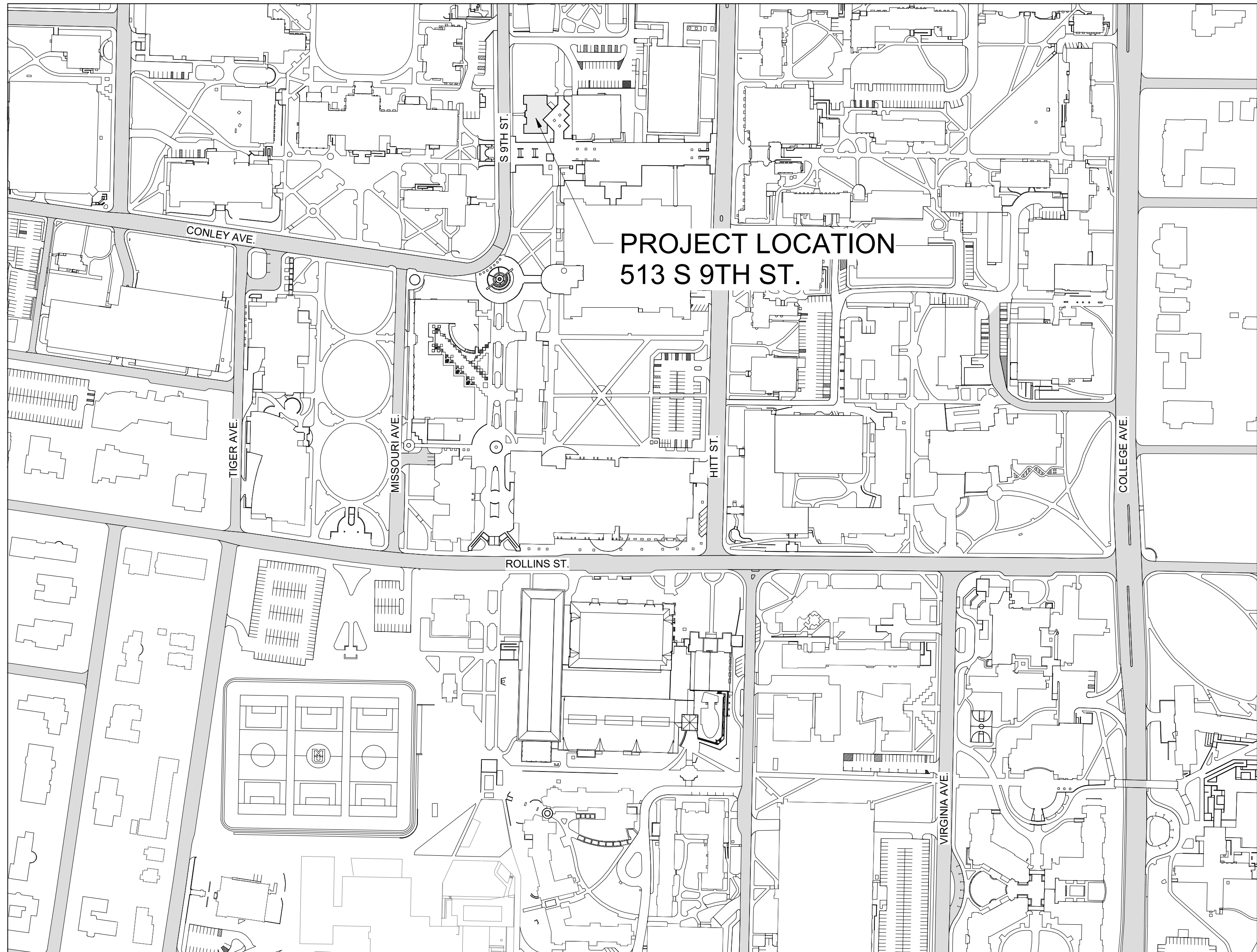
E000 ELECTRICAL COVERSHEET  
E101 LEVEL 01 DEMOLITION PLAN - LIGHTING  
E111 LEVEL 01 DEMOLITION PLAN - POWER  
E121 LEVEL 01 DEMOLITION PLAN - SYSTEMS  
E201 LEVEL 01 PLAN - LIGHTING  
E211 LEVEL 01 PLAN - POWER  
E221 LEVEL 01 PLAN - SYSTEMS  
E400 ELECTRICAL DETAILS  
E600 ELECTRICAL SCHEDULES

## SHEET INDEX | X17



- 01 INSTALL 8'-0" TALL CHAIN LINK CONSTRUCTION FENCE AND CONSTRUCTION GATE WITH LOCKSET. ALIGN WITH BUILDING LINE.
- 02 INSTALL TEMPORARY SIGNAGE AT BOTTOM OF STAIRS DIRECTING PEDESTRIAN TRAFFIC AWAY FROM CONSTRUCTION PER IBC 3306.1.
- 03 PATH FOR DEMOLITION DEBRIS REMOVAL. CONTRACTOR SHALL PROTECT ALL EXISTING INTERIOR AND EXTERIOR FLOORING FINISHES AND ADJACENT FINISHED TO REMAIN ALONG PATH TO DUMPSTER.

## STAGING AND SITE PLAN | Q1



## CAMPUS MAP | B1

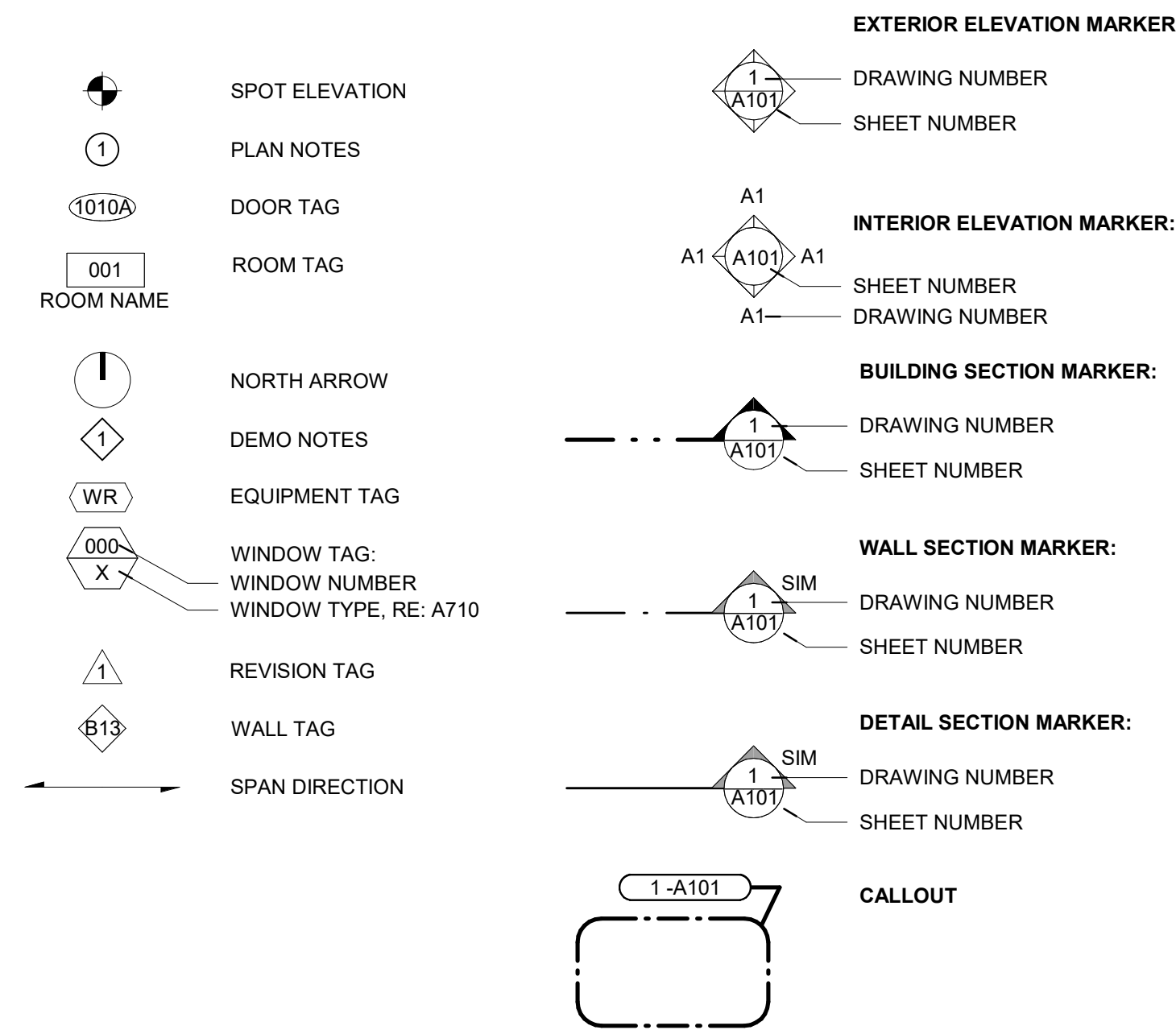
### DEFERRED SUBMITTAL ITEMS:

DIGITAL, ADDRESSABLE FIRE ALARM SYSTEMS RE: 283111

### SPECIAL INSPECTIONS:

CAST-IN-PLACE CONCRETE  
1. REINFORCING PLACEMENT FOR CONCRETE SLABS  
2. CONCRETE PLACEMENT AND MATERIAL TESTING  
PENETRATION FIRESTOPPING

## DEFERRED SUBMITTALS & SPECIAL INSP. | K17



## ARCHITECTURAL SYMBOLS | B17



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MISSOURI STATE CERTIFICATE OF AUTHORITY #000582

### MEP CONSULTANT



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FOR THE CURATORS OF  
THE UNIVERSITY OF MISSOURI

## LOWRY HALL RENOVATE FIRST FLOOR

PROJECT NUMBER: CP220811

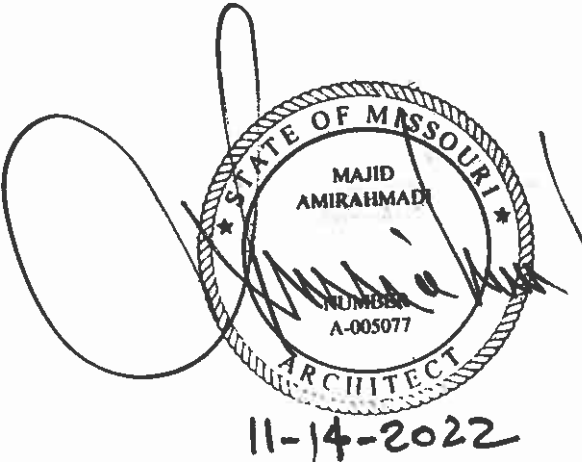
## THE UNIVERSITY OF MISSOURI

### ISSUED FOR BID

513 S 9th St. (at Lowry Mall)  
Columbia, MO 65211  
United States

DATE: 11/14/2022  
PROJ. NO.: CP220811  
DESIGNED BY: IC, JL  
DRAWN BY: IC, JL  
CHECKED BY: JL, MA  
APPROVED BY: MA

SEAL:



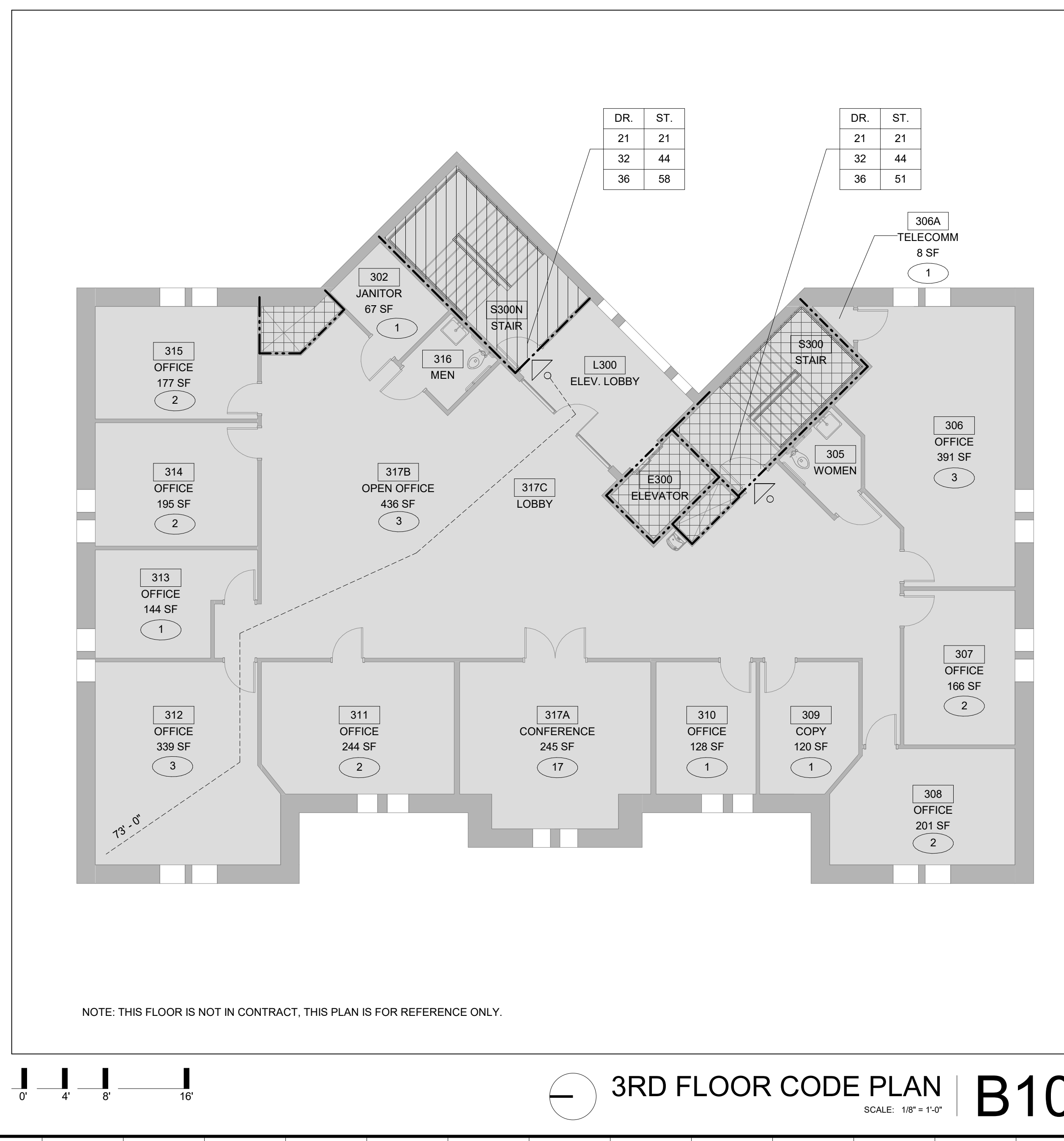
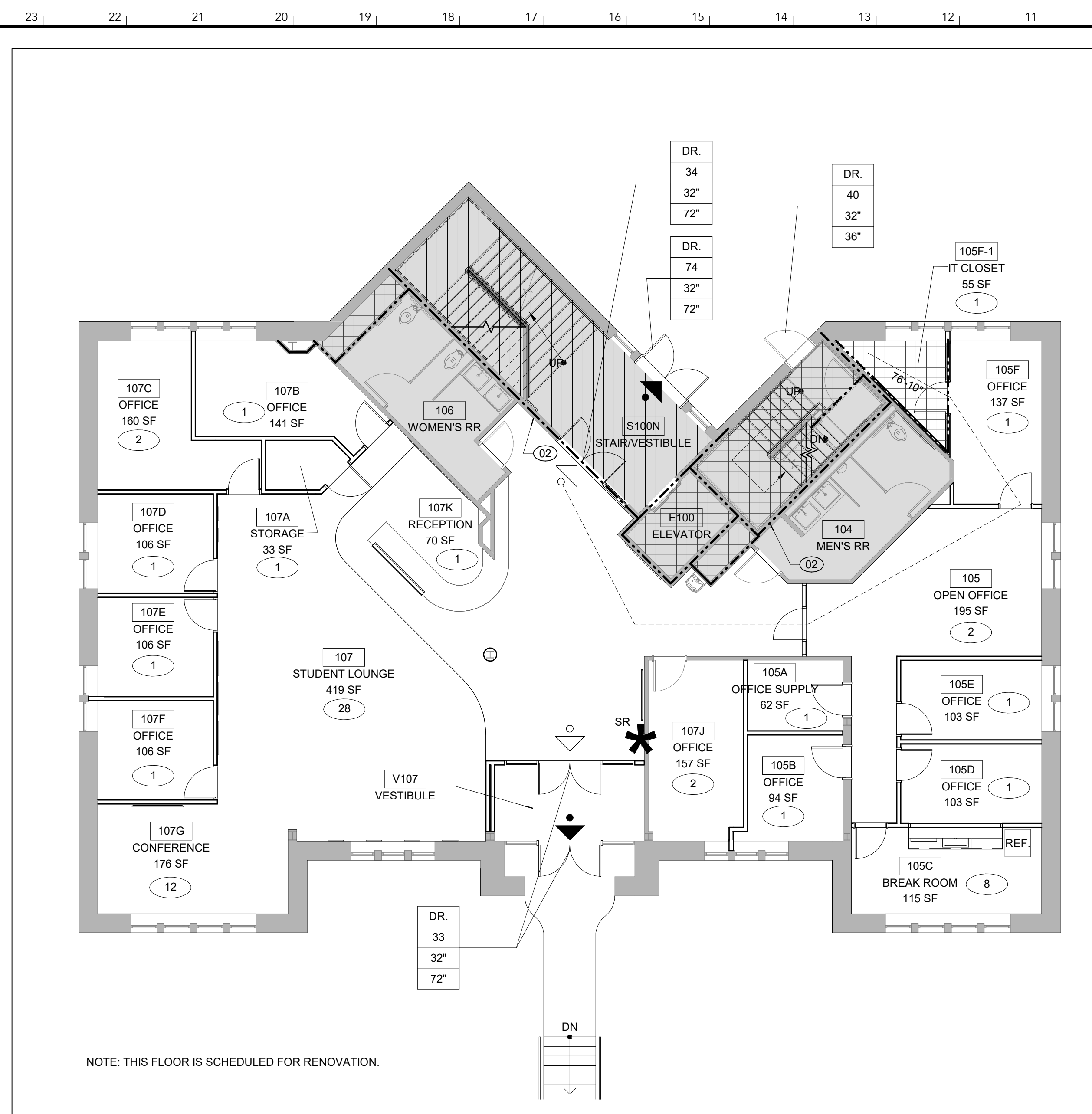
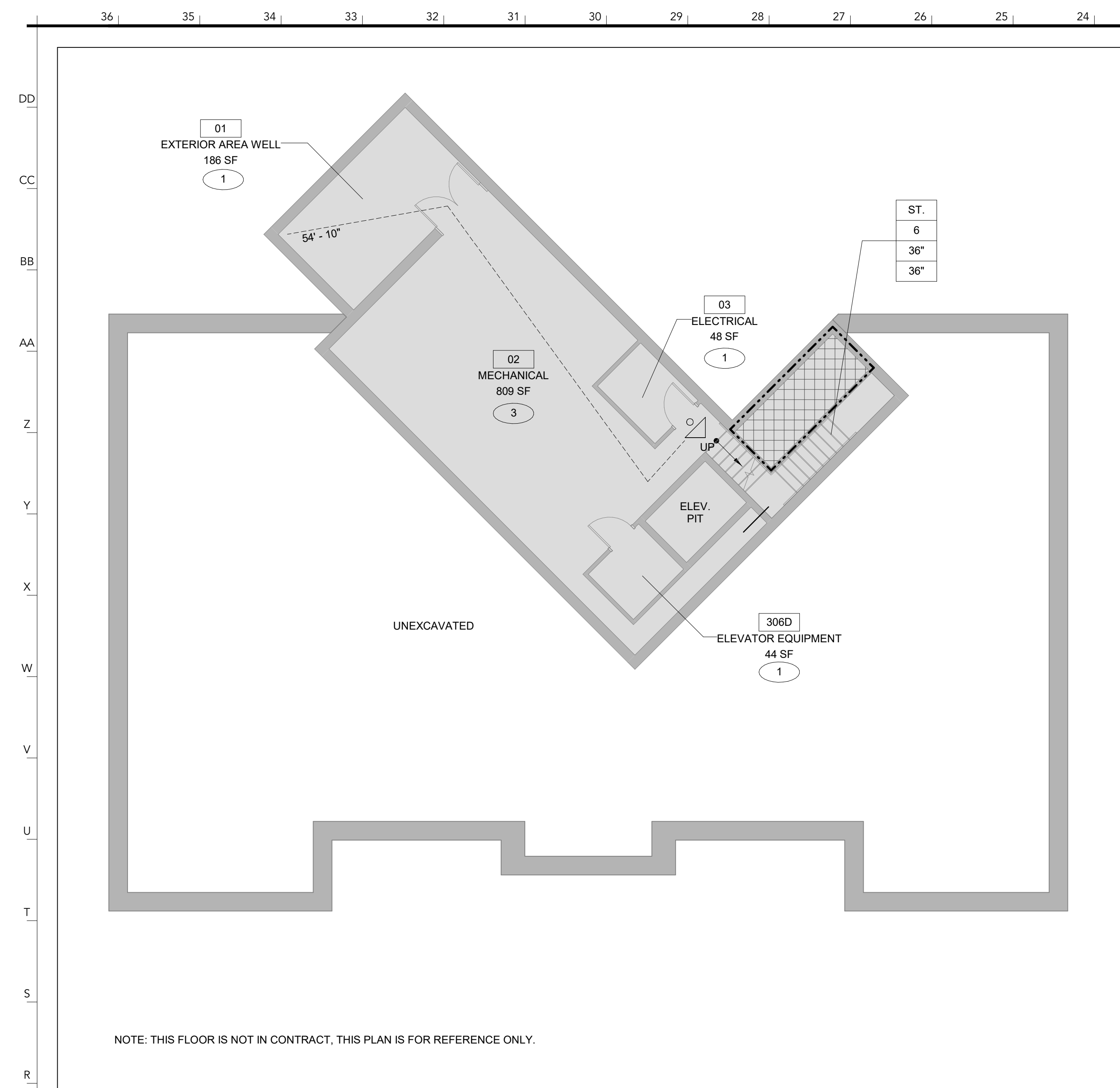
The Professional Architect's seal affixed to this sheet applies only to the material and items shown on this sheet. All drawings, instruments, or other documents not exhibiting this seal shall not be considered prepared by this architect, and this architect expressly disclaims any and all responsibility for such plans, drawings, or documents not exhibiting this seal.

NO.	REVISION SUBMISSION	DATE
0	ISSUED FOR BID	11/14/2022

### GENERAL INFORMATION

## G001

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01

EXISTING FLOOR SLAB IS 3-1/2" REINFORCED CAST-IN-PLACE CONCRETE ON TOP OF CORRUGATED STEEL DECK AND STEEL JOISTS WITH SUSPENDED DRYWALL CEILING WHICH EXCEEDS 1/2 HOUR RATING PER TABLE 721 1.(3).

02

EXISTING WALL IS 7-5/8" C.M.U. W/ 1/2" GYPSU BOARD ON EACH SIDE WHICH EXCEEDS 1 HOUR AND 1 HOUR RATING PER TABLE 721.1(2)

03

EXISTING WALL IS 45 MINUTE RATED PER UL DESIGN NO. U425

04

EXISTING DOOR IS LABELED AND RATED FOR 1 HOUR FIRE RESISTANCE

X

OCCUPANTS PER ROOM

NOT IN CONTRACT

DR.

ST.

DR. = MAX WIDTH ST. = STAIR WIDTH

X

X

OCCUPANCY

-----

EGRESS TRAVEL PATH

X

X

REQUIRED EXIT WIDTH (INCHES)

X

X

PROVIDED EXIT WIDTH (INCHES)

X

X

INDICATES 1/2-HOUR FIRE RESISTIVE CONSTRUCTION

△

INDICATES POINT OF EGRESS ACCESS

▲

INDICATES POINT OF EGRESS DISCHARGE

INDICATES 1-HOUR FIRE RESISTIVE CONSTRUCTION

INDICATES 1-HOUR RATED ENCLOSURE

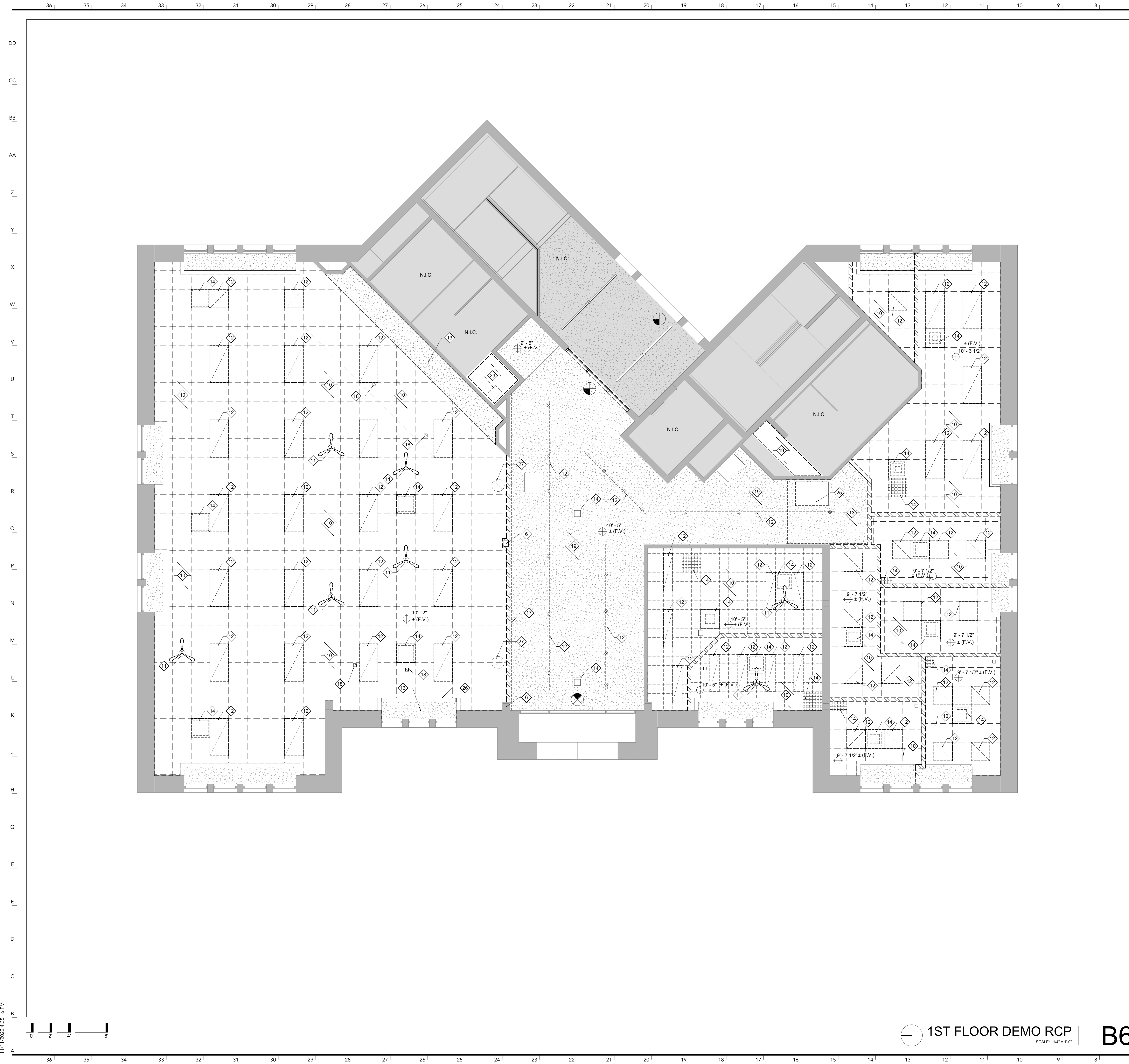
INDICATES 1-HOUR RATED ENCLOSURE

INDICATES 1-HOUR RATED ENCLOSURE

	LIFE SAFETY LEGEND	Z1
Applicable Codes:	2021 International Building Code (IBC) 2021 International Existing Building Code (IEBC), Level 2 Automation 2021 International Plumbing Code (IPC) 2021 International Mechanical Code (IMC) 2021 International Fire Code 2020 National Electrical Code (NFPA 70 NEC) 2021 Installation of Air Conditioning and Ventilating Systems (NFPA 90A) 2022 National Fire Alarm Code (NFPA 72) 2019 ASHRAE 90.1 – Energy Standard for Buildings 2010 ADA Standards of Accessible Design University of Missouri Consultation Procedures and Design Guidelines	
Work Area:	Basement: 0 sq ft Work Area / 1,315 sq ft Level Area = 0% Level 1: 3,730 sq ft Work Area / 5,315 sq ft Level Area = 70% Level 2: 0 sq ft Work Area / 5,315 sq ft Level Area = 0% Level 3: 0 sq ft Work Area / 5,315 sq ft Level Area = 0% <b>Total: 3,730 sq ft Work Area / 17,260 sq ft Level Area = 21.6% Work to Building Area</b>	
Occupancy:	B: Offices, Student Lounges under 50 Occupants	
Type of Construction:	Type III-B	
Building Height (Stories):	3 stories with a basement	
Allowable Building Height:	3 stories above grade plane (IBC Table 504.4)	
Building Height:	47'-8 ½" above grade plane	
Allowable Building Height:	55'-0" above grade plane (IBC Table 504.3)	
Building Area:	Basement – Approx. 1,315 gross square feet First Floor – Approx. 5,315 gross square feet Second Floor – Approx. 5,315 gross square feet Third Floor – Approx. 5,315 gross square feet	
Allowable Building Area:	19,000 gross square feet per story (IBC Table 506.2)	
Mixed Use Group Approach:	Non-Separated (IBC 508.3)	
Passive Fire Resistive Requirements:	<ul style="list-style-type: none"> <li>-Exterior Bearing Walls      2-hour (IBC Table 601)</li> <li>-Interior Bearing Walls      0-hour (IBC Table 601)</li> <li>-Exterior Non-Bearing Walls    0-hour, greater than 30 feet fire separation distance (IBC Table 705.5)</li> <li>-Structural Frame                0-hour (IBC Table 601)</li> <li>-Floors                                0-hour (IBC Table 601)</li> <li>-Roof                                  0-hour (IBC Table 601)</li> <li>-Shafts                                1-hour at shafts exceeding three stories (IEBC 802.2.1)</li> <li>-Exit Stair Enclosures          0.5-hour minimum at enclosures not exceeding three stories (IEBC 802.2.1, Exception R5)</li> <li>   1-hour at enclosures exceeding three stories (IEBC 802.2.1)</li> <li>-Exit Stair Openings             0.75-hour (IBC Table 716.1(2) "Other fire barriers")</li> </ul>	
Interior Finishes (IBC Table 803.13):	Interior exit stairways and ramps and exit passageways: Class A Corridors and enclosure for exit access stairways: Class B Rooms and enclosed spaces: Class C	

<b>Active Fire Protection:</b>				
-Automatic Sprinkler System	Existing at Level 1 Exit Access Glass Storefront Only; Not Required (IBC 903 & IECB 803.2.2, Item #1)			
-Fire Extinguishers	Required (IEC 806.1)			
-Fire Alarm	Existing in Building, Required in Work Area (IBC 907.2 and IECB 803.4.2)			
<b>Egress:</b>				
-Stairs - Exit Width	0.3 inches per person (IBC 1005.3.1)			
	44 inches minimum (IBC 1011.2)			
	36 inches minimum serving occupant load less than 50 (IBC 1011.2 Exc. 1)			
-Doors - Exit Width	0.2 inches per person (IBC 1005.3.2)			
	32 inches minimum clear width (IBC 1010.1.1)			
-Corridors - Exit Width	44 inches minimum (IBC 1020.2)			
Common Path of Egress Travel (IBC Table 1006.2.1)	B: 100 feet when Occupant Load is ≤ 30. 75 feet when Occupant Load is >30.			
Exit Access Travel Distance (IBC Table 1017.2)	B: 200 feet			
Dead End Corridors	B: 35 feet or less than 2.5 times least width of dead-end corridor. (IBC 1020.5, Exception #3 and IECB 804.7)			
Number of Exits Required from Spaces	1 existing exit required and provided at Basement Level, (IECB 804.4) 2 existing exits required and provided at Levels 1-3. (IECB 804.4)			
Accessible Entrances	1 required, 1 provided (IECB 306.7.5)			
<b>Emergency Power:</b>				
Exit Signs (IBC 1013)	Required			
Emergency Lighting (IBC 1008.2)	Required at means of egress (IBC 1008.2 and 1008.3)			
<b>Plumbing Fixtures:</b>				
<b>Basement Floor – Occupancy B – 66 Occupants</b>				
3 Men / 3 Women				
Required	Water Closets / Urinals 0.08 Men / 0.08 Women	Lavatories 0.04 Men/0.04 Women	D.F. 0.06	
<b>1<sup>st</sup> Floor – Occupancy B – 66 Occupants</b>				
33 Men / 33 Women				
Required	Water Closets / Urinals 1.32 Men / 1.32 Women	Lavatories 0.825 Men/0.825 Women	D.F. 0.06	
Provided Total:	2 Men (1 ADA) / 2 Women (1 ADA) 1 Unisex at 3 <sup>rd</sup> Floor	2 Men / 2 Women 1 Unisex at 3 <sup>rd</sup> Floor		1 @ 1 <sup>st</sup> Floor 1 @ 3 <sup>rd</sup> Floor





**DEMOLITION NOTES:**

INDICATES AREAS OF BUILDING NOT IN CONTRACT

INDICATES EXISTING ITEMS TO REMAIN.

INDICATES ITEMS TO BE DEMOLISHED.

OR

- REFER TO G001 FOR GENERAL NOTES AND GENERAL DEMOLITION NOTES.
- ALL REMOVABLE FURNISHINGS TO BE REMOVED BY OWNER PRIOR TO START OF CONSTRUCTION
- PREPARE ALL EXISTING WALLS WITHIN PROJECT SCOPE TO RECEIVE NEW PAINT. REMOVE AND PATCH ALL NAIL HOLES AND DAMAGED AREAS IN GYPSUM. REMOVE ALL ADHESIVES AND OTHER MATERIALS THAT WILL AFFECT THE APPLICATION OF NEW PAINT.
- SALVAGE ANY ROOM SIGNAGE LOCATED ON WALLS TO BE DEMOLISHED AND TURN OVER TO THE OWNER'S REPRESENTATIVE. REMOVE NUMBER SIGNS AT METAL DOOR FRAME HEAD AND PATCH SMOOTH.

- PLAN NOTES**
- REMOVE EXISTING GYPSUM BOARD WALL INCLUDING WALL BASE, ALL ASSOCIATED FRAMING, AND ANY ELECTRICAL DEVICES, RECEPTACLES, CONDUIT, ETC. RE: ELECTRICAL DRAWINGS FOR ELECTRICAL DEMOLITION REQUIREMENTS.
  - REMOVE EXISTING WALL BASE AND ADHESIVE WITHIN ROOM INDICATED ON PLANS.
  - REMOVE EXISTING DOOR, DOOR FRAME, HARDWARE, AND ALL ASSOCIATED FRAME ANCHORAGE MATERIALS.
  - REMOVE STOREFRONT WALL AND DOOR INCLUDING ALL ASSOCIATED ANCHORS.
  - REMOVE EXISTING CASEWORK AND ALL ASSOCIATED HARDWARE.
  - PROTECT EXISTING STRUCTURAL COLUMN DURING DEMOLITION. TYP. NO STRUCTURAL ELEMENTS ARE BEING DEMOLISHED IN THIS PROJECT.
  - SAWCUT AND REMOVE EXISTING CONCRETE SLAB, AGGREGATE AND FILL FOR NEW UNDERSLAB UTILITIES. COORDINATE WIDTH, DEPTH AND ROUTING OF DEMO WITH PLUMBING DRAWINGS.
  - REMOVE EXISTING QUARRY TILE 3/4" MORTAR BED DOWN TO EXISTING CONCRETE STRUCTURAL SLAB. PREPARE FLOOR TO RECEIVE NEW SELF-LEVELING AND FLOOR FINISH. REMOVE ALL BASE AND ASSOCIATED ADHESIVES.
  - REMOVE ALL EXISTING CARPET, BASE, AND ASSOCIATED ADHESIVES DOWN TO STRUCTURAL SLAB. PREPARE FLOOR TO RECEIVE NEW FLOOR FINISH.
  - REMOVE EXISTING ACoustICAL CEILING TILE, GRID AND ASSOCIATED HARDWARE AND SUSPENSION SYSTEM.
  - REMOVE EXISTING CEILING FAN AND ASSOCIATED HARDWARE.
  - REMOVE EXISTING LIGHT FIXTURE AND ASSOCIATED HARDWARE.
  - REMOVE EXISTING GYPSUM CEILING AND FRAMING TO THE EXTENTS INDICATED.
  - REMOVE EXISTING DIFFUSER OR GRILLE. REFER: MECHANICAL DRAWINGS.
  - REMOVE AND SALVAGE EXISTING FIRE EXTINGUISHER TO BE RELOCATED TO NEW LOCATION IN FIRE CABINET SHOWN ON NEW CONSTRUCTION FLOOR PLANS.
  - REMOVE EXISTING ADA ACTUATOR SENSOR FROM EXTERIOR STONE WALL. PREPARE SURFACES EXISTING LOW VOLTAGE WIRING TO RECEIVE NEW ADA ACTUATOR. RE: ELECTRICAL.
  - REMOVE AND TURN OVER ARTWORK TO OWNER'S REPRESENTATIVE.
  - REMOVE EXISTING POWER POLE AND ALL ASSOCIATED ELECTRICAL WIRING BACK TO THE NEAREST JUNCTION BOX.
  - NEATLY CUT AND REMOVE PORTIONS OF EXISTING GYPSUM BOARD CEILING AS REQUIRED TO INSTALL AND ROUTE PLUMBING LINES OR POWER TO NEW LIGHT FIXTURES AND MECHANICAL COMPONENTS. PATCH GYPSUM BOARD CEILING TO MATCH ADJACENT SURFACES AND PREPARE CEILING TO RECEIVE NEW FINISHES. RE: MEP DRAWINGS.
  - NEATLY COREDRILL EXISTING EXTERIOR MASONRY WALL AS REQUIRED FOR NEW CONDUIT AND LOW VOLTAGE WIRING FOR NEW CARD READER ACCESS. RE: ELECTRICAL.
  - REMOVE EXISTING RUBBER WALL CHAIR RAIL AND/OR CORNER GUARD AND ALL ASSOCIATED ADHESIVES. PATCH GYPSUM WALL BOARD AND PREPARE SURFACE TO RECEIVE NEW FINISHES.
  - REMOVE HOOK AND ASSOCIATED BLOCKING/FASTENERS. PATCH GYPSUM WALL BOARD AND PREPARE SURFACE TO RECEIVE NEW FINISHES.
  - REMOVE EXISTING CERAMIC FLOOR TILE AND MORTAR BED DOWN TO EXISTING CONCRETE STRUCTURAL SLAB. PREPARE FLOOR TO RECEIVE NEW FLOOR FINISH.
  - REMOVE PORTION OF EXISTING METAL STUD PARTITION, INCLUDING BASE AND FINISHES FOR INSTALLATION OF NEW DOOR AND FRAME OR FIRE EXTINGUISHER CABINET. PROVIDE ADDITIONAL METAL STUD FRAMING AS REQUIRED FOR INSTALLATION OF NEW CONSTRUCTION. REFER TO NEW FLOOR PLAN SHEETS FOR LOCATIONS OF DOORS.
  - REMOVE EXISTING CEILING ACCESS PANEL AND ALL ASSOCIATED HARDWARE.
  - REMOVE EXISTING GYPSUM BOARD BULKHEAD AND ASSOCIATED METAL FRAMING AT EXTENTS SHOWN.
  - REMOVE EXISTING EXIT SIGN AND RETURN TO OWNER'S REPRESENTATIVE.
  - REMOVE PORTION OF EXISTING WALL TILE AND GYPSUM BOARD AS REQUIRED TO INSTALL NEW FURRED OUT BLOCKING AND GYPSUM BOARD FINISH FOR INSTALLATION OF NEW VERTICAL GRAB BAR.
  - REMOVE PORTION OF EXISTING GYPSUM BOARD CEILING AND ASSOCIATED FRAMING AS REQUIRED TO ACCESS EXISTING MECHANICAL EQUIPMENT TO BE REPLACED. REMOVE AND SALVAGE EXISTING ACCESS DOOR FOR REINSTALLATION IN NEW GYPSUM BOARD CEILING AFTER MECHANICAL SYSTEMS ARE REPLACED TO ACCESS NEW EQUIPMENT.
  - REMOVE EXISTING DOOR ONLY. EXISTING FRAME TO REMAIN. PREPARE FRAME TO RECEIVE NEW DOOR.
  - REMOVE AND TURN OVER MONITOR TO OWNER'S REPRESENTATIVE.

INTERNATIONAL ARCHITECTS ATELIER  
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FOR THE CURATORS OF  
THE UNIVERSITY OF MISSOURI

**LOWRY HALL  
RENOVATE FIRST  
FLOOR**

PROJECT NUMBER: CP220811

**THE UNIVERSITY OF  
MISSOURI**

**ISSUED FOR BID**

513 S 9th St. (at Lowry Mall)  
Columbia, MO 65211  
United States

DATE:	11/14/2022
PROJ. NO.:	CP220811
DESIGNED BY:	CM, IC, JL
DRAWN BY:	CM, IC, JL
CHECKED BY:	JL, MA
APPROVED BY:	MA

SEAL:

NO.	REVISION SUBMISSION	DATE
0	ISSUED FOR BID	11/14/2022

**1ST FLOOR CEILING  
DEMOLITION PLAN**

**D400**

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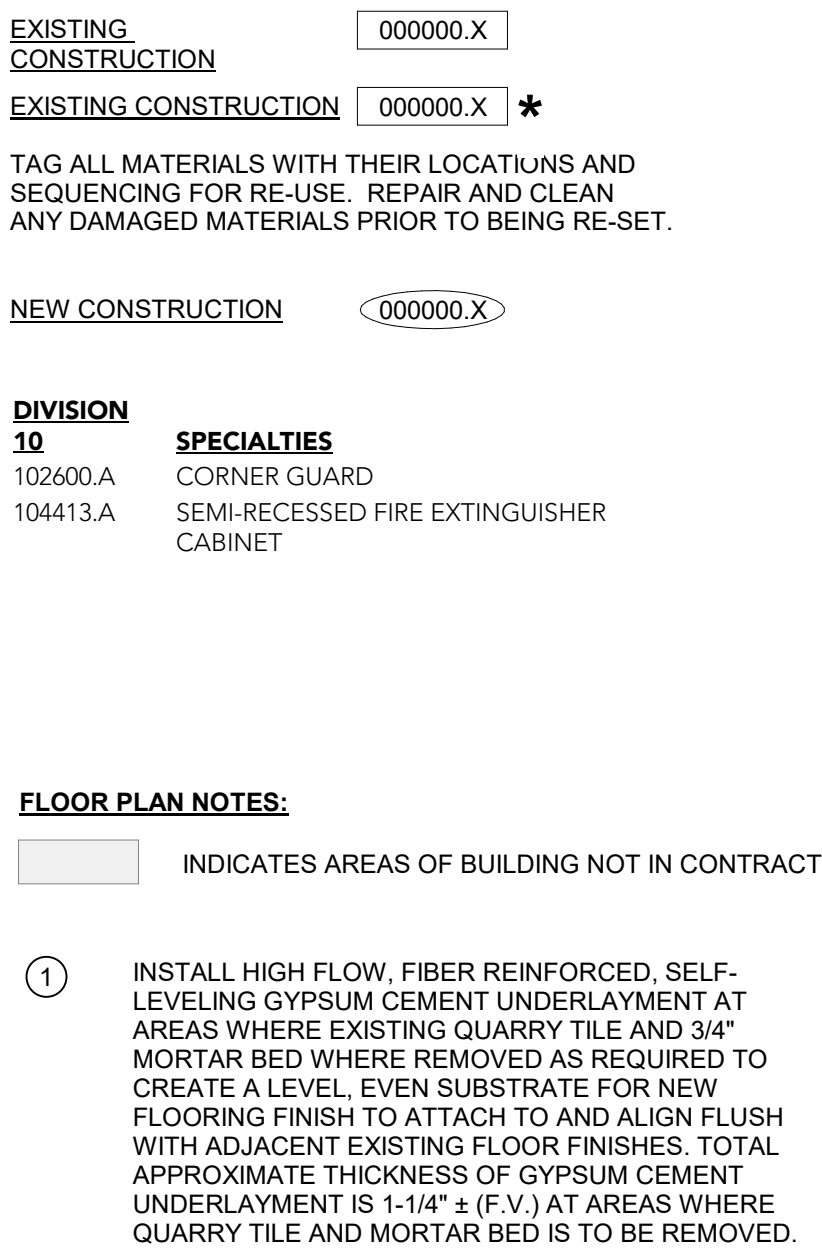


THIS CHARACTER DENOTES MODIFICATION(S) TO THE SERIES ASSEMBLY. REFER TO THE PARTITION MODIFIER KEY FOR MODIFICATION(S).

1. SERIES
2. STUD/MASONRY DESIGNATOR
3. MODIFIER

DIVISION 10	SPECIALTIES
DIVISION 11	EQUIPMENT
DIVISION 12	FURNISHINGS
DIVISION 22	CONVEYING EQUIPMENT
DIVISION 23	PLUMBING
DIVISION 26	HVAC
DIVISION 31	ELECTRICAL
DIVISION 32	EARTHWORK
	EXTERIOR IMPROVEMENTS

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2. POUR NEW FLOOR SLAB AFTER DRAIN PIPING IS INSTALLED. REFER TO DETAIL BS1 A620
3. INSTALL CUSTOM SHOP FABRICATED BREAK METAL END CAPS TO MATCH EXISTING RADIATOR CABINETS. RE: MECHANICAL PIPING PLANS.
4. INSTALL CUSTOM SHOP FABRICATED BREAK METAL EXTENSION COVERS ALONG RADIATOR CABINETS AT LOCATIONS WHERE EXISTING WALLS WERE REMOVED. MATERIAL TO BE MINIMUM 18 GAUGE AND FINISH TO MATCH EXISTING AIR CABINET. FASTENERS TO BE CONCEALED.
5. LOCATION OF NEW CARD READER ACCESS. REFER TO ELECTRICAL DRAWINGS AND DOOR HARDWARE SCHEDULE FOR ADDITIONAL INFORMATION.
6. LOCATION OF NEW ADA DOOR ACTUATOR. REFER TO ELECTRICAL DRAWINGS AND DOOR HARDWARE SCHEDULE FOR ADDITIONAL INFORMATION.
7. WRAP 5/8" TYPE X GYPSUM BOARD AROUND END OF SHAFT WALL. SHAFT WALL TO OVERLAP 1-HOUR CMU WALL CONSTRUCTION AND TERMINATE PRIOR TO HITTING EXISTING IT/EV EQUIPMENT INSTALLED AT CMU WALL.
8. PATCH EXISTING WALLS WHERE WALLS WERE DEMOLISHED. PREPARE SURFACES TO RECEIVE NEW FINISHES.

**COORDINATION NOTES:**


1. PROVIDE BLOCKING CONCEALED IN WALLS FOR ALL WALL-MOUNTED WOODWORK, FINISH CARPENTRY, ACCESSORIES, CASEWORK, HARDWARE, AND OTHER SIMILARLY MOUNTED ITEMS.


**FINISH NOTES:**

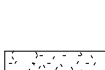
1. ALL WALLS TO BE PAINTED PT-1 U.N.O.


PT-1	BENJAMIN MOORE: STEAM AF-15
PT-2	SHERWIN WILLIAMS SW 5691 GLITZ GOLD
PT-3	BENJAMIN MOORE: BEYOND BLUE 167
PT-4	BENJAMIN MOORE: WILLOW SPRINGS GREEN 418
PT-5	BENJAMIN MOORE: THUNDER AF-165
PT-6	BENJAMIN MOORE: CLOUD WHITE OC-130

(AT ALL GYPSUM BOARD CEILINGS, U.N.O.)

 CPT-1: CARPET TILE FLOORING  
RE: 096813

 CPT-2: WALK-OFF CARPET TILE FLOORING  
RE: 096813

 LVT-1: RESILIENT TILE FLOORING  
RE: 096519

 CFT-1: NEW CERAMIC TILE FLOORING  
MATCH EXISTING ADJACENT TILE FLOOR  
IN RESTROOM  
RE: 093013

**I A A**  
INTERNATIONAL ARCHITECTS ATELIER

912 BROADWAY BLVD, SUITE 300 | KANSAS CITY, MO 64105  
P: 816 471 6522 | F: 816 471.3755 | W: I.A.A.COM

MISSOURI STATE CERTIFICATE OF AUTHORITY #00050582

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**MEP CONSULTANT**

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**IMEG**

IMEG CORP.

1600 BALTIMORE  
KANSAS CITY, MO 64108  
PH: 816.842.837



# LOWRY HALL RENOVATE FIRST FLOOR

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APPROVED BY:	MA

SEAL:



11-14-2022

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### 1ST FLOOR PLAN

# A100

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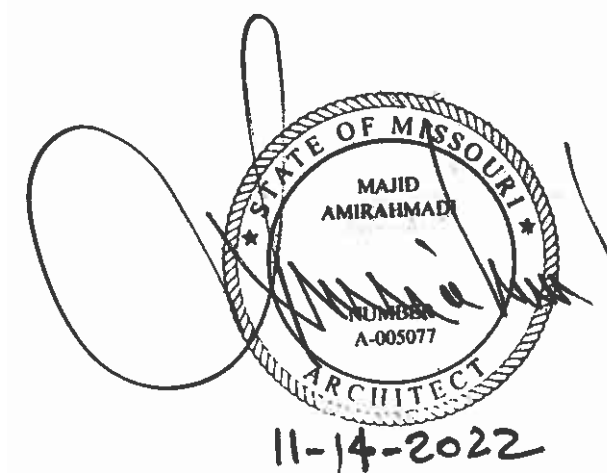
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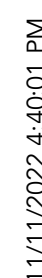


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1ST FLOOR CEILING  
PLAN

# A400



1ST FLOOR RCP  
SCALE: 1/4" = 1'-0"

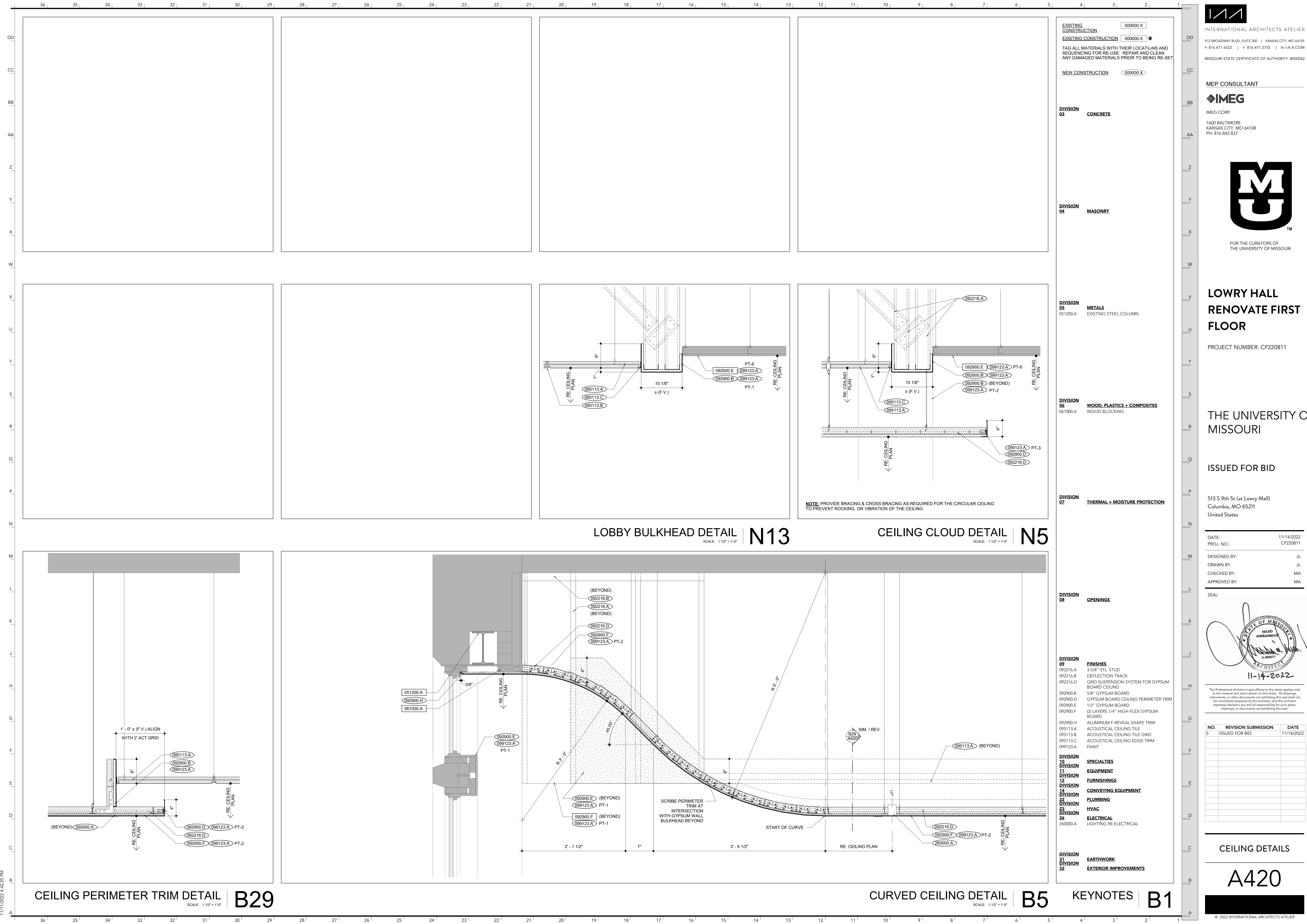
SCALE: 1/4" = 1'-0"

**B7**

## CEILING PLAN NOTES

# B1

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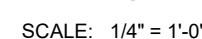
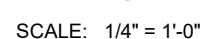
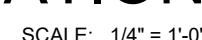
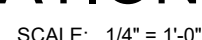
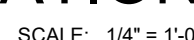
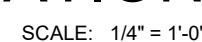
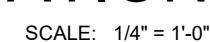
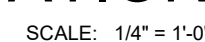
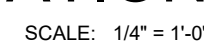
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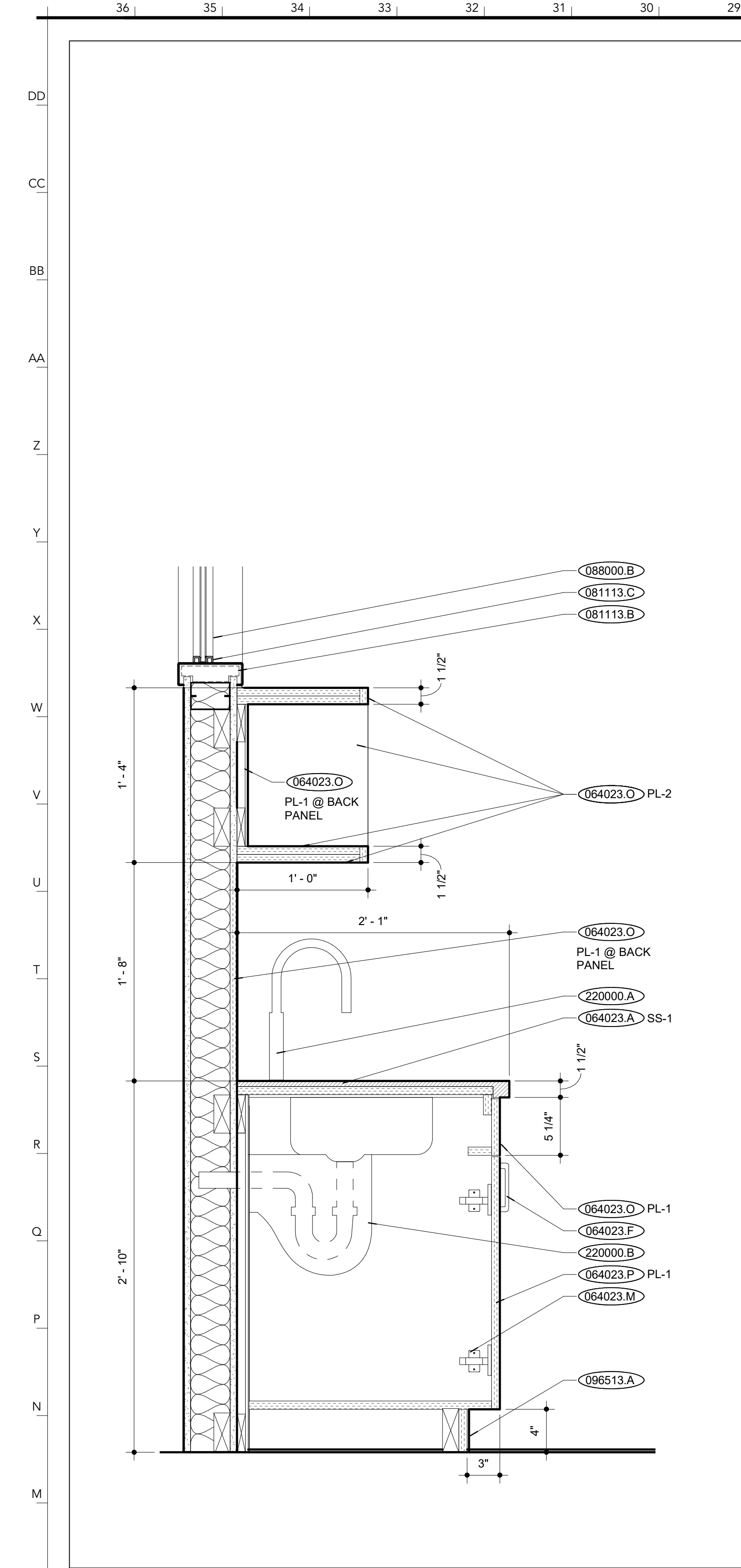


<u>VISION</u>	<u>EARTHWORK</u>
<u>VISION</u>	<u>EXTERIOR IMPROVEMENTS</u>

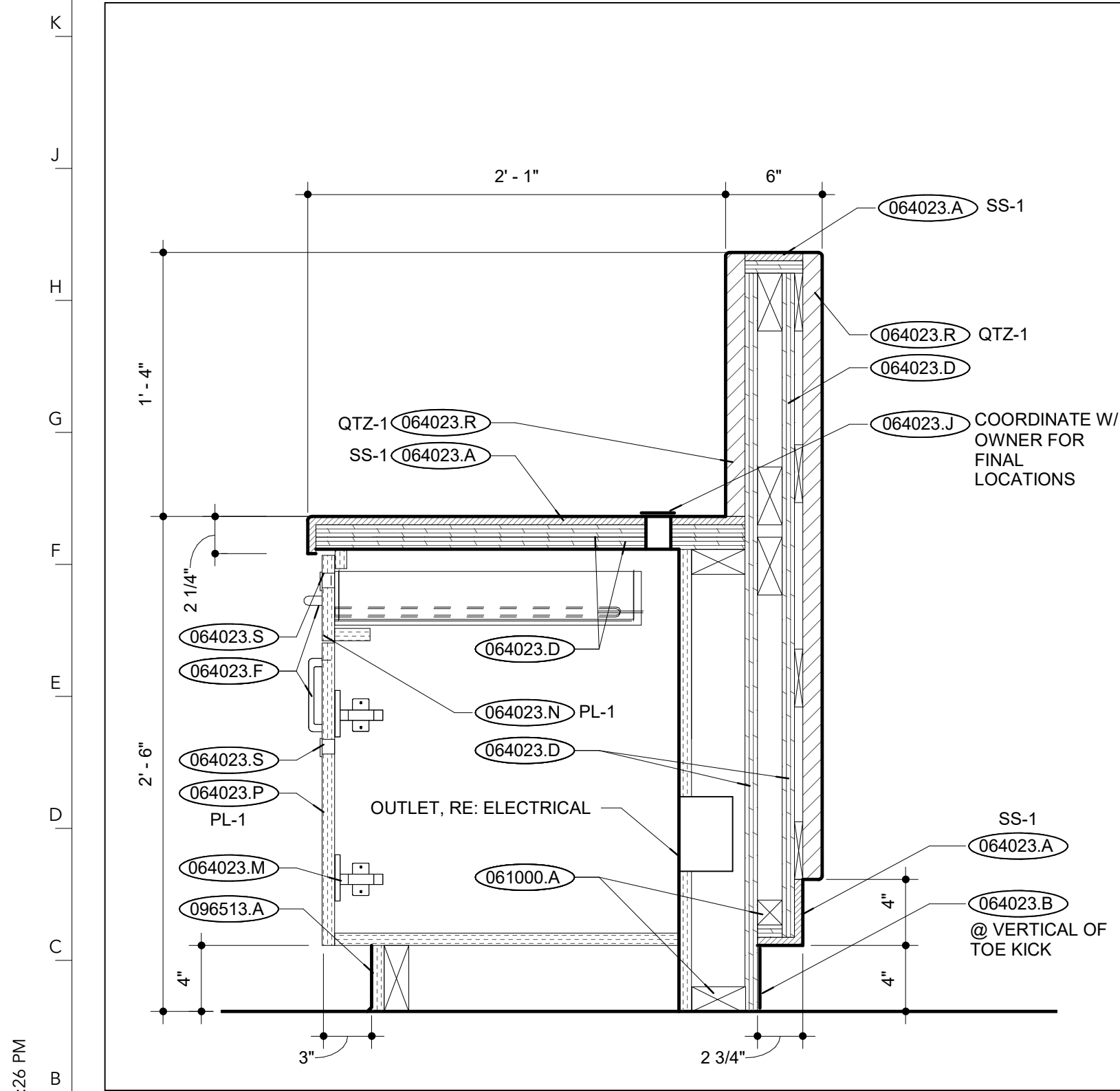
KEYNOTES | R1

KEYNOTES | R1

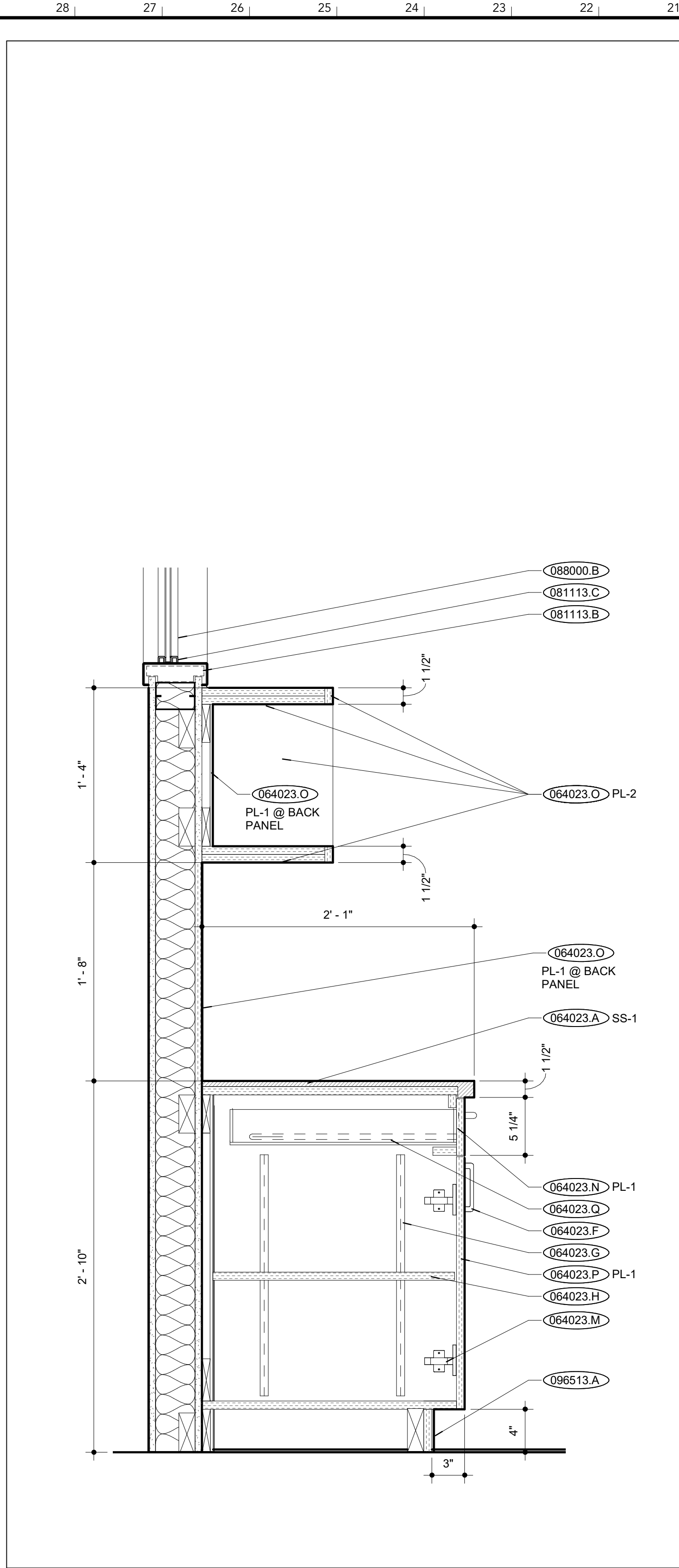
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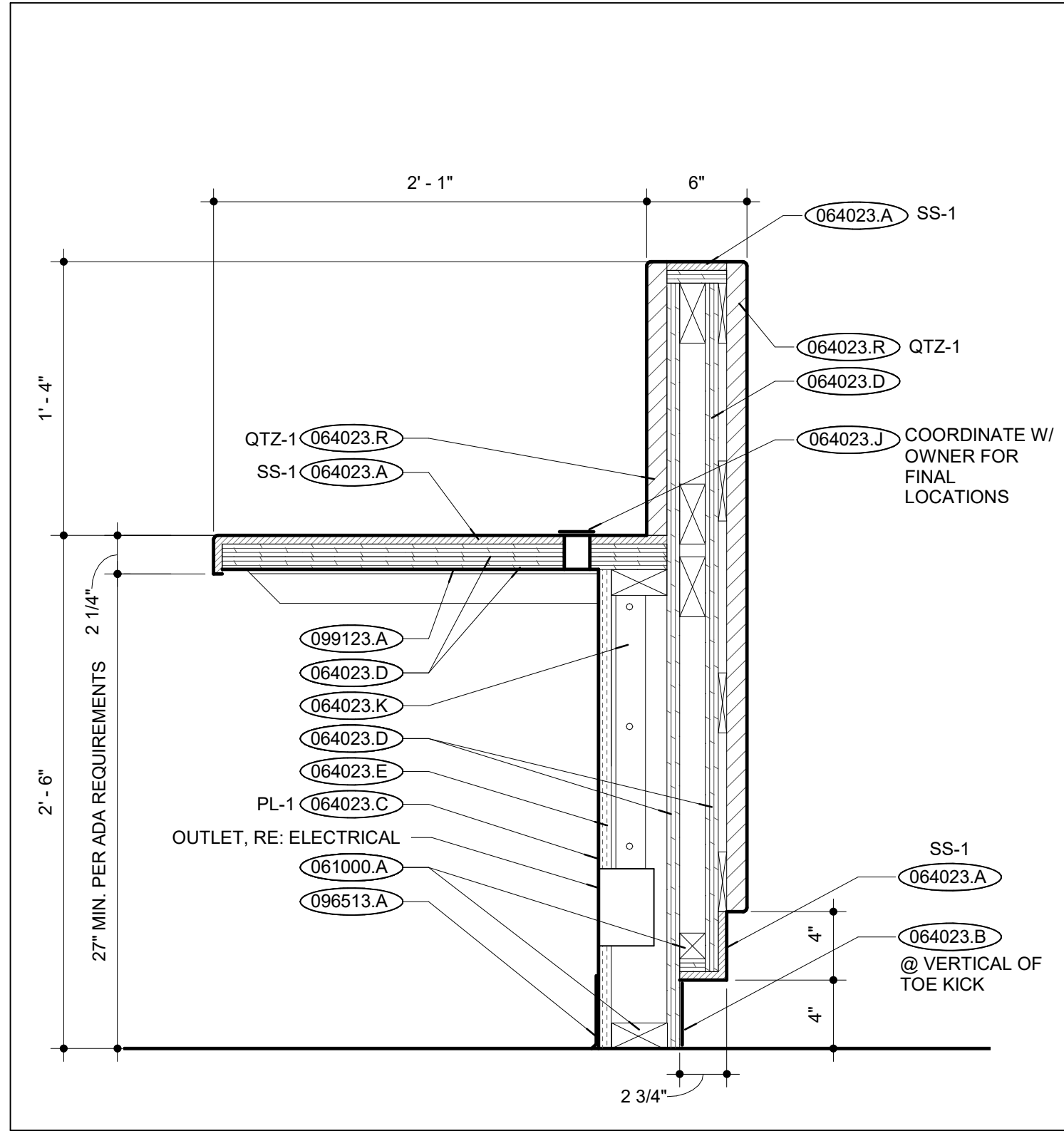
CASEWORK SECTION AT SINK | **L29**  
SCALE: 1 1/2" = 1'-0"



RECEPTION DESK SECTION | **R29**  
SCALE: 1 1/2" = 1'-0"



CASEWORK SECTION | **L21**  
SCALE: 1 1/2" = 1'-0"



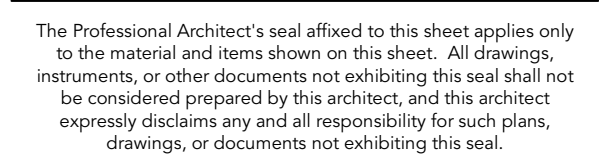
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CEILING FINISHES	
ACT	ACOUSTICAL CEILING TILE, RE: 095113
GBC	GYPSUM BOARD CEILING, PAINT RE: 099123

# V5

EXISTING CONSTRUCTION

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EXISTING CONSTRUCTION

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\*

TAG ALL MATERIALS WITH THEIR LOCATIONS AND SEQUENCING FOR RE-USE, REPAIR AND CLEAN ANY DAMAGED MATERIALS PRIOR TO BEING RE-SET

NEW CONSTRUCTION

000000.X

DIVISION 03

CONCRETE

033000.A

REINFORCED CONCRETE PATCH W/FIBER @ 1/5#/C.Y..TYP.

033000.B

DRILL & EPOXY #4 x 18" W/S' EMBEDMENT @ 18" O.C.

035413.A

HIGH FLOW, FIBER REINFORCED, SELF-LEVELING UNDERLAYMENT

DIVISION 04

MASONRY

DIVISION 05

METALS

051200.A

EXISTING STEEL COLUMN

DIVISION 06

WOOD, PLASTICS + COMPOSITES

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DIVISION 07

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DIVISION 08

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DIVISION 135

WOOD, PLASTICS + COMPOSITES

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WOOD BLOCKING

DIVISION 218

WOOD, PLASTICS + COMPOSITES



## KEYNOTES | B1



## PROJECT NUMBER: CP220811

ISSUED FOR BID

513 S 9th St (at Lowry Mall)  
Columbia, MO 65211  
United States

DATE:	11/14/2022
PROJ. NO.:	CP220811
<hr/>	
DESIGNED BY:	IC, JL
DRAWN BY:	IC, JL
CHECKED BY:	JL, MA
APPROVED BY:	MA

STATE OF MASSACHUSETTS  
MAJID AMIRAHMAD  
ARCHITECT  
A-005077  
11-14-2022

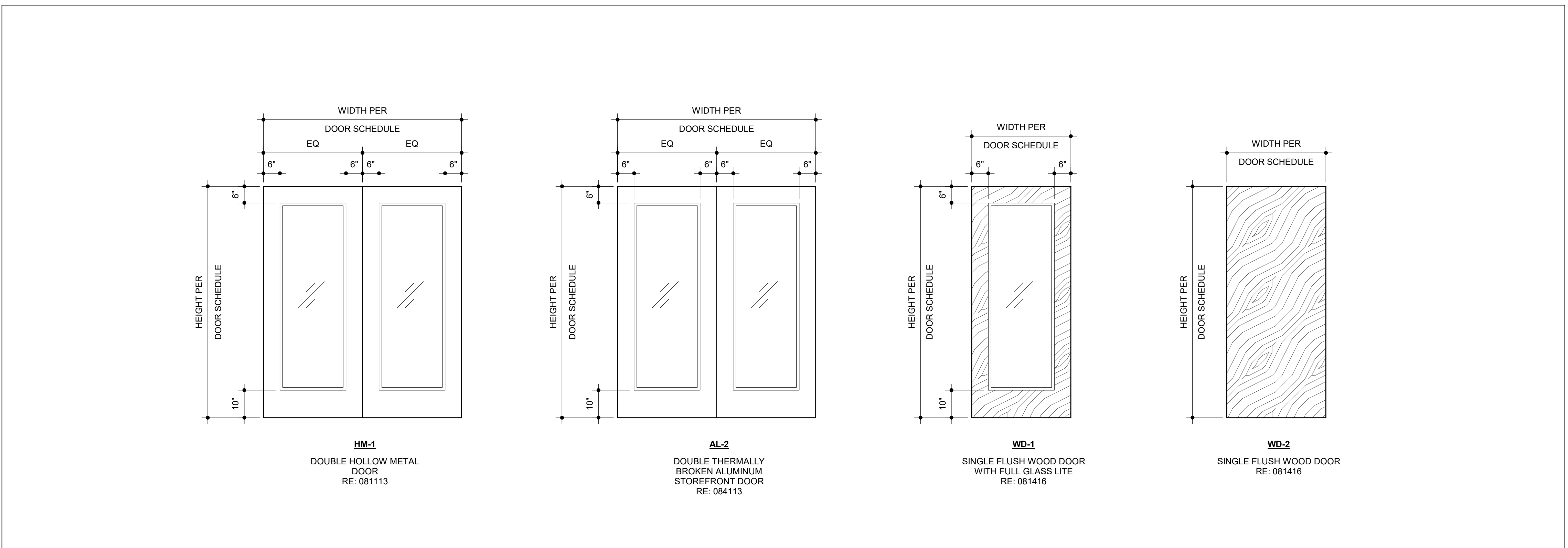
The Professional Architect's seal affixed to this sheet applies only to the material and items shown on this sheet. All drawings, instruments, or other documents not exhibiting this seal shall not be considered prepared by this architect, and this architect expressly disclaims any and all responsibility for such plans, drawings, or documents not exhibiting this seal.

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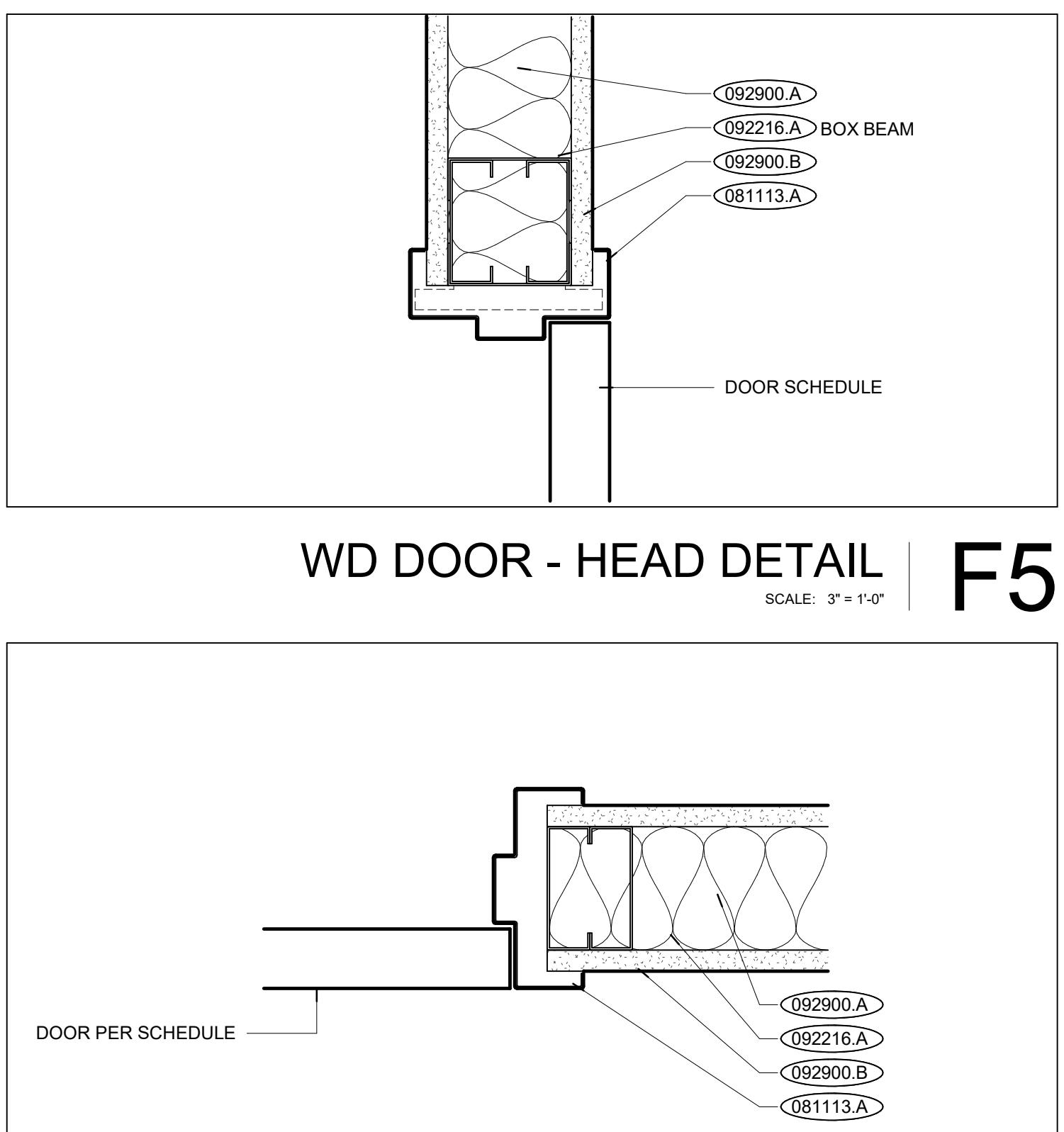
DOOR MATERIAL		FRAME MATERIAL		GLAZING TYPES:	
AL	ALUMINUM DOOR, RE: 084113	AL	WOOD FRAME, RE: 081416	GL-1	1/4" (6mm) CLEAR FULLY TEMPERED GLASS UNIT
WD	SOLID-CORE WOOD DOOR, RE: 081416	HM	ALUMINUM FRAME, RE: 084113		SURFACE: 1 - NONE 2 - NONE
DOOR / FRAME FINISHES		GENERAL DOOR COMMENTS		GL-2	1" INSULATING GLASS UNIT - LOW-E - 1/4" (6mm) LOW-E FULLY TEMPERED GLASS - 1/2" ALUMINUM AIRSPACER - 1/4" (6mm) CLEAR FULLY TEMPERED GLASS
HPOF	HIGH PERFORMANCE ORGANIC FINISH, COLOR TO MATCH EXISTING EXTERIOR FRAMES RE: 084113	1	APPLY FROSTED WINDOW FILM TO GLAZING, RE: 088000		SURFACE: 1 - NONE 2 - LOW-E COATING 3 - NONE 4 - NONE
PT	PAINT, RE: 099123	2	FIELD VERIFY EXISTING ROUGH OPENING TO CONFIRM DOOR SIZE		
ST	STAIN, RE: 099950	3	PROVIDE CARD READER ACCESS, RE: ELECTRICAL AND 087100		
		4	PAINT ALL EXPOSED SURFACES OF EXISTING DOOR AND FRAME	GL-3	3/16" FIRE RATED MONOLITHIC CERAMIC CLEAR AND WIRELESS GLAZING FIRE RATING: 45 MINUTES SURFACE APPLIED-FILM LISTED FOR USE IN IMPACT SAFETY RATED GLAZING

# V5



# L29

## L5



B29

## B21

# B13

**B5**

# B1



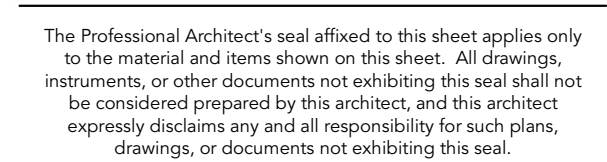
PROJECT NUMBER: CP220811

ISSUED FOR BID

513 S 9th St (at Lowry Mall)  
Columbia, MO 65211  
United States

DATE:	11/14/2022
PROJ. NO.:	CP220811
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DESIGNED BY:	IC, JL
DRAWN BY:	IC, JL
CHECKED BY:	JL, MA
APPROVED BY:	MA

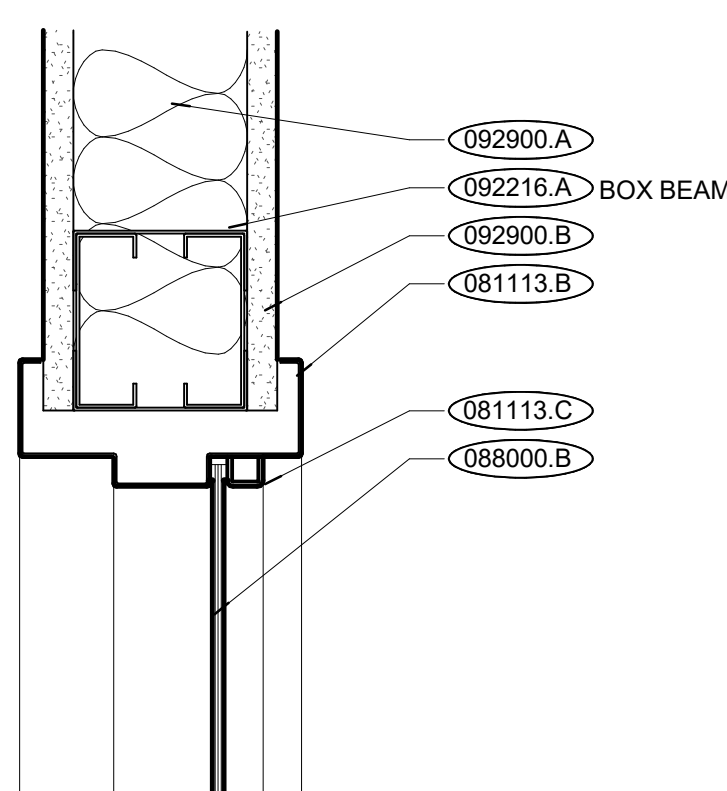
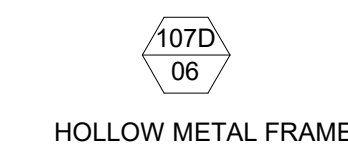
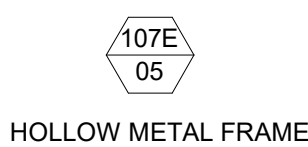
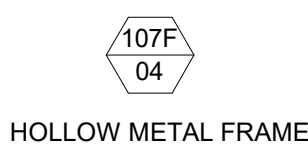
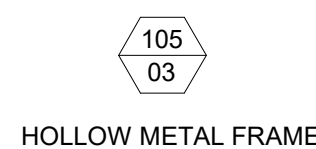
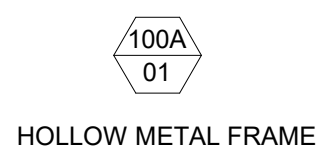
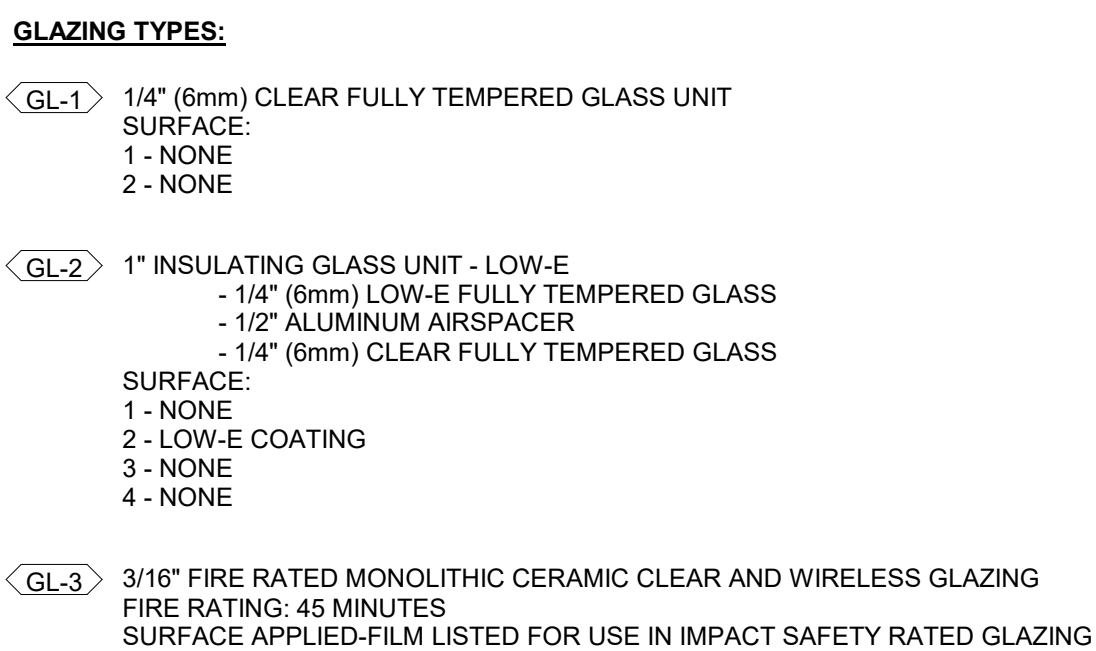
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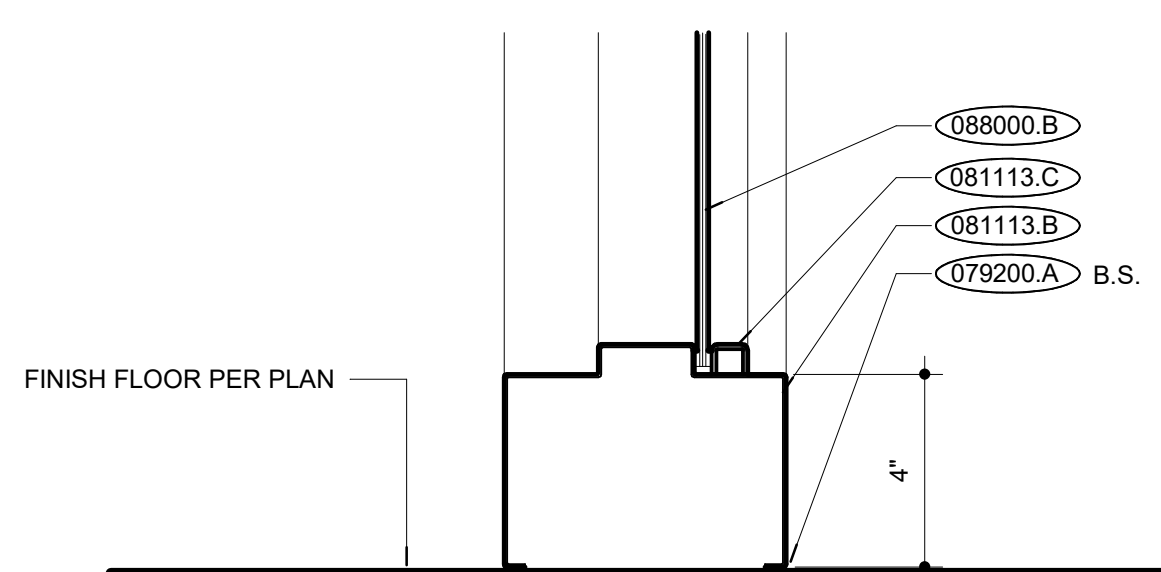
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WINDOW COMMENTS	
1	HOLLOW METAL FRAME AND WINDOW ASSEMBLY SHALL PROVIDE 45 MINUTE FIRE RESISTANCE RATING
2	APPLY FROSTED WINDOW FILM TO GLAZING, RE: 088000

## WINDOW SCHEDULE | Y5



HM FRAME - HEAD DETAIL | J29



HM FRAME - SILL DETAIL | B29

EXISTING CONSTRUCTION 000000.X

EXISTING CONSTRUCTION 000000.X \*

TAG ALL MATERIALS WITH THEIR LOCATIONS AND SEQUENCING FOR RE-USE. REPAIR AND CLEAN ANY DAMAGED MATERIALS PRIOR TO BEING RE-SET

NEW CONSTRUCTION 000000.X

**DIVISION**  
**03** **CONCRETE**

**DIVISION**  
**04**                      **MASONRY**

**DIVISION**  
**05**                      **METALS**

**DIVISION**  
**06**      **WOOD, PLASTICS + COMPOSITES**

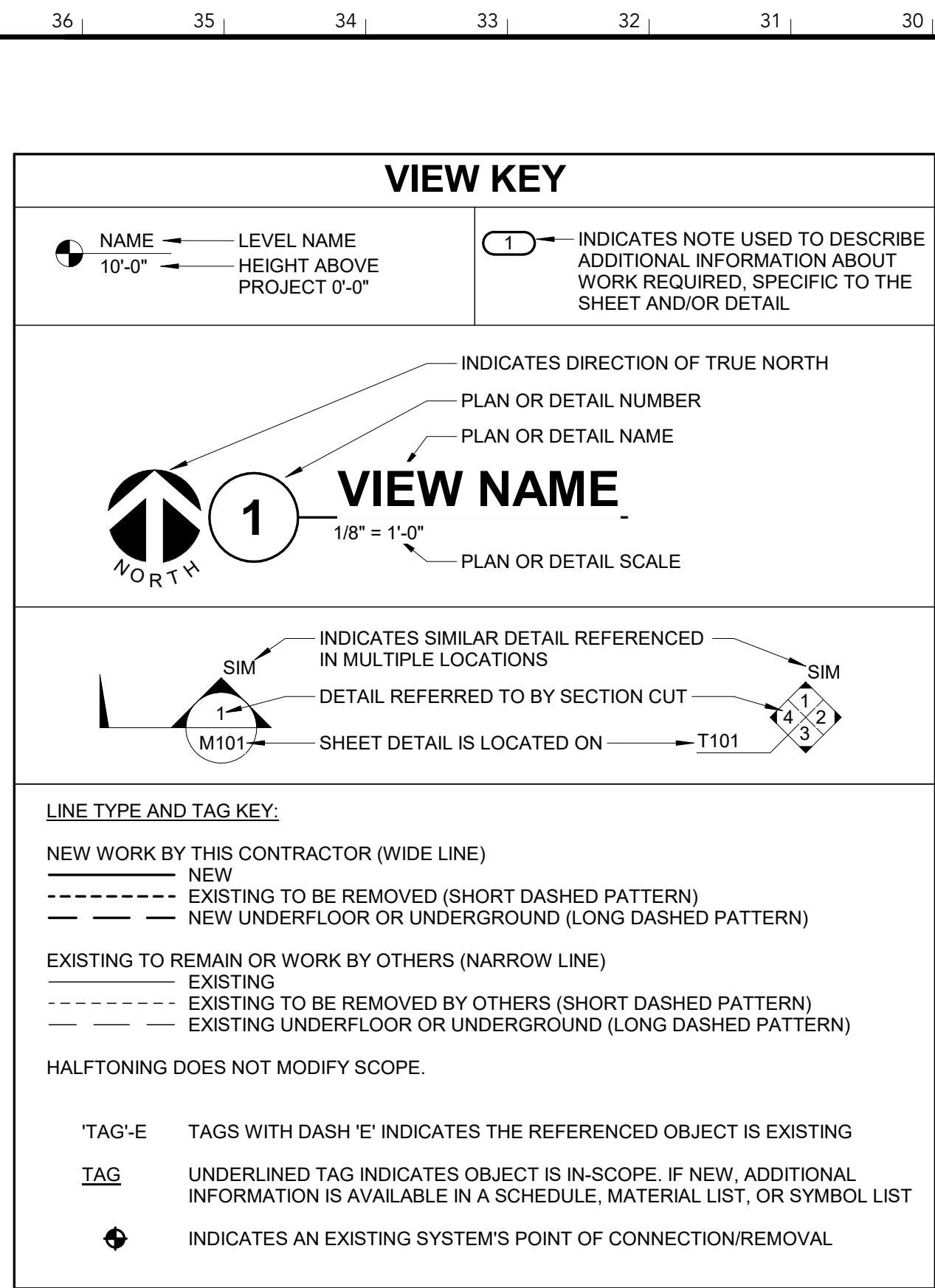
**DIVISION**  
**07**  
 079200.A

<b>DIVISION</b>	<b>OPENINGS</b>
08	
081113.B	HOLLOW METAL STOREFRONT FRAME
081113.C	GLASS STOPS
088000.A	WINDOW FILM
088000.B	GLAZING

<b><u>DIVISION</u></b>	<b><u>FINISHES</u></b>
<b>09</b>	
092216.A	3-5/8" STL. STUD
092900.A	SOUND ATTENUATION BLANKETS
092900.B	5/8" GYPSUM BOARD

<u>DIVISION</u>	<u>SPECIALTIES</u>
10 <u>DIVISION</u>	
11 <u>DIVISION</u>	<u>EQUIPMENT</u>
12 <u>DIVISION</u>	<u>FURNISHINGS</u>
13 <u>DIVISION</u>	
14 <u>DIVISION</u>	<u>CONVEYING EQUIPMENT</u>
22 <u>DIVISION</u>	<u>PLUMBING</u>
23 <u>DIVISION</u>	<u>HVAC</u>
26 <u>DIVISION</u>	<u>ELECTRICAL</u>
31 <u>DIVISION</u>	<u>EARTHWORK</u>
32	<u>EXTERIOR IMPROVEMENTS</u>

WINDOW TYPES | **B5** KEYNOTES | **B1**



MECHANICAL SYMBOL LIST	
NOT ALL SYMBOLS MAY APPLY.	
SYMBOL:	DESCRIPTION:
	COLD WATER - POTABLE
	CHILLED WATER RETURN
	CHILLED WATER SUPPLY
	DRAIN - PLUMBING
	NATURAL GAS
	HOT WATER - POTABLE
	HOT WATER CIRCULATING - POTABLE
	REHEAT WATER RETURN
	REHEAT WATER SUPPLY
	SANITARY DRAINAGE
	VENT
	PIPE CAP
	PIPE DOWN
	PIPE UP OR UP/DOWN
	PIPE SERVING FIXTURE ON FLOOR ABOVE (EXAMPLE: FD = FLOOR DRAIN)
	PITCH PIPE IN DIRECTION
	DIRECTION OF FLOW IN PIPE
	ROUTE TO DRAIN
	ROOF DRAIN PROPERTIES      SYMBOL SIZE (ROOF SQ. FT.)
	DIELECTRIC CONNECTION
	UNION/FLANGE
	SHUTOFF VALVE NORMALLY OPEN
	SHUTOFF VALVE NORMALLY CLOSED
	THROTTLING VALVE
	BALANCING VALVE (NUMBER INDICATES GPM)
	AUTOMATIC BALANCING VALVE
	MIXING VALVE
	CONTROL VALVE (THREE-WAY)
	CONTROL VALVE (TWO-WAY)
	SOLENOID VALVE
	CHECK VALVE
	SAFETY/RELIEF VALVE
	PRESSURE REDUCING VALVE (LIQUID/GAS)
	PRESSURE REDUCING VALVE (STEAM)
	TRIPLE DUTY VALVE (ANGLE TYPE)
	TRIPLE DUTY VALVE (IN-LINE TYPE)
	PUMP
	VACUUM BREAKER
	"WYE" - STRAINER
	"WYE" - STRAINER W/SHUTOFF VALVE AND HOSE      CONNECTION WITH CAP
	AUTOMATIC DRAIN VALVE
	ANGLE VALVE
	CHECK VALVE
	BACKFLOW PREVENTER
	SAFETY/RELIEF VALVE
	REDUCER - REFERENCE SPECIFICATION FOR CONCENTRIC/ECCENTRIC AND FOT/FOB
	ALIGNMENT GUIDE
	PIPE ANCHOR
	EXPANSION JOINT #\"#\" IS THE EXPANSION TRAVEL INCHES
	METER
	DIRECTION OF AIR FLOW
	FLEXIBLE DUCT
	MANUAL VOLUME DAMPER
	RISE IN DIRECTION OF AIR FLOW
	DROP IN DIRECTION OF AIR FLOW
	DUCT CAP
	DUCT DOWN
	DUCT UP
	SUPPLY/OUTSIDE AIR DUCT SECTION
	RETURN AIR DUCT SECTION
	EXHAUST/RELIEF AIR DUCT SECTION
	4-WAY DIFFUSER WITH BLANKOFF IN ONE DIRECTION
	AIR TERMINAL PROPERTIES      SYMBOL NECK SIZE/CFM
	TERMINAL AIR BOX (REFER TO SCHEDULE)
	TERMINAL AIR BOX w/REHEAT COIL (REFER TO SCHEDULE)
	THERMOSTAT
	NO HATCH
	ORDINARY GROUP 1
	ORDINARY GROUP 2
	DEMOLITION
	EXTRA GROUP 1
	EXTRA GROUP 2

MECHANICAL ABBREVIATION KEY	
ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BT	BATHTUB
C	COMMON
CB	CATCH BASIN
CFSD	CONTROL/FIRE/SMOKE DAMPER
CI	CAST IRON
CO	CLEANOUT
CS	CLINICAL SINK
DB	DIALYSIS BOX
DF	DRINKING FOUNTAIN
DI	DUCTILE IRON
DPG (0-2")	DIFFERENTIAL PRESSURE GAUGE (RANGE)
DPS	DIFFERENTIAL PRESSURE SWITCH
E	EXISTING
EA	EXHAUST/RELIEF AIR
ECFSD	EXISTING CONTROL FIRE SMOKE DAMPER
EE	EMERGENCY EYEWASH
EFD	EXISTING FIRE DAMPER
EFSD	EXISTING FIRE SMOKE DAMPER
EP	ELECTRICAL TO PNEUMATIC VALVE
ES	EMERGENCY SHOWER
ESD	EXISTING SMOKE DAMPER
ESE	EMERGENCY SHOWER/EYEWASH
EWC	ELECTRIC WATER COOLER
FCO	FLOOR CLEANOUT
FD	FIRE DAMPER
FM	FLOW METER
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FS	FLOOR SINK
FSD	FIRE/SMOKE DAMPER
GD	GARBAGE DISPOSER
GI	GREASE INTERCEPTOR
HB	HOSE BIBB
I.E.	INVERT ELEVATION (FOR REFERENCE ONLY)
LAV	LAVATORY
MA	MIXED AIR
MB	MOP BASIN
MH	MANHOLE
MV	MIXING VALVE
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NT	NEUTRALIZATION TANK
OA	OUTSIDE AIR
OS	OIL SEPARATOR
PS	PRESSURE SWITCH
RA	RETURN AIR
RD	ROOF DRAIN
SA	SUPPLY AIR
SCCR	SHORT CIRCUIT CURRENT RATING
SD	SMOKE DAMPER
SH	SHOWER
SK	SINK
SS	SERVICE SINK
TAB	TERMINAL AIR BOX
TD	TRANSFER DUCT
TP	TRAP PRIMER
TYP	TYPICAL
UB	UTILITY BOX
UC-1	DOOR UNDERCUT BY OTHERS (1" TYPICAL)
UON	UNLESS OTHERWISE NOTES
UR	URINAL
VTR	VENT THROUGH ROOF
WC	WATER CLOSET
WCO	WALL CLEANOUT
WF	WASH FOUNTAIN
WH	WATER HEATER
WMF	WASHING MACHINE FIXTURE
WM	WATER METER
WS	WATER SOFTENER
YCO	YARD CLEANOUT

**MECHANICAL GENERAL NOTES:**

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL.

1. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF EQUIPMENT, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.

1. DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. COORDINATE WITH THE CONTRACTOR AND THE ARCHITECT TO VERIFY THE LOCATION, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONDITIONS ALLOW.
2. DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
3. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES TO ALL EQUIPMENT, DUCTS, PIPING, ETC. PRIOR TO INSTALLATION TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES TO THE ARCHITECT AND THE CONTRACTOR IMMEDIATELY.
4. REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFICATIONS SUBMITTED AND MAKE SURE THERE IS SUFFICIENT SPACE AND CONDITIONS TO PROVIDE PROPER ACCESS.
5. CLEARANCES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
6. EACH TRADE IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
7. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIOVISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, CEILINGS, FLOORS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
9. IN AREAS WITH DRYWALL CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE ARCHITECT. COORDINATE WITH THE ARCHITECT TO VERIFY THE LOCATION, SIZE, AND PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
10. WATER, WASTE, AND AIR PIPING PENETRATIONS AIRTIGHT WHERE CONDUTTS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER.
11. CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, RAMP, AND ROOF PENETRATIONS TO PROVIDE THE SAME LEVELS WITH THE SURROUNDING ROOMS AND ROOFS TO PROVIDE THE DESIRED LEVELS WITHIN ROOMS.
12. WATER AND DUCTS ARE SHOWN TO PENETRATE FLOORS. PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RASING 2" MINIMUM ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO THE FLOOR.
13. EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS. VERIFY ALL EQUIPMENT PIPING, DUCTS, PIPING, DUCTWORK, ETC.
14. DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.
15. MAINTAIN CLEARANCE TO EQUIPMENT IN FRONT OF ALL ELECTRICAL PANELS, MOTOR STARTERS, SWITCHES, AND DISCONNECTS.
16. PROVIDE SUFFICIENT CLEARANCE TO ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT.
17. DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM MEAL, DECKING OR OTHER NON-STRUCTURAL BUILDING MATERIALS. ALL EQUIPMENT AND CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

**MECHANICAL RENOVATION NOTES:**

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL.

1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYING AND RECORD DRAWINGS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
2. NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS AND LOCATIONS OF WORK UNDERGROUND AND ABOVE GROUND.
3. FIELD VERIFY THE AVAILABLE CLEARANCES FOR DUCTWORK AND PIPING BEFORE FABRICATION, RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
4. EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF THEIR WORK AND THE LOCATION OF ALL EXISTING UTILITIES. ANY OBSTACLES TO THE WORK ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO THEIR AREA OF WORK. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVAL AND PATCHING OF EXISTING UTILITIES AND FILES. THE GENERAL CONTRACTOR SHALL NOTIFY THE GC OF AFFECTED AREAS PRIOR TO BIDDING. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF EXISTING UTILITIES AND FILES. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING.
5. EXISTING MECHANICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED. EACH CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ANY CONFLICTS PRIOR TO BIDDING. IF IT DOES NOT COMPLY WITH EXISTING SYSTEMS, OR REWORK EXISTING MECHANICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND REPAIR DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT MAY BE REQUIRED.
6. OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEM IS INSTALLED.
7. MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR OPERATION. MAINTAIN ACCESS TO ALL EXISTING MECHANICAL SYSTEMS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM. MAKE CHANGEOVER TO NEW SYSTEMS WITH MINIMUM OUTAGE. MAINTAIN ACCESS TO ALL EXISTING MECHANICAL DEVICES AND EQUIPMENT SERVING EQUIPMENT THAT HAS BEEN REMOVED.

## PLUMBING ROUGH-IN SCHEDULE

NOTES: (APPLIES TO ALL PLUMBING FIXTURES LISTED BELOW)  
1) SIZES SHOWN ARE MINIMUMS. LARGER SIZES SHOWN ON THE DRAWING SHALL DICTATE THE ROUGH-IN SIZE. 2) SANITARY RISERS UP IN WALL TO FIXTURES SHALL BE A MINIMUM OF 2". 3) DOMESTIC WATER BRANCH PIPING OUTSIDE OF THE WALL/CHASE SHALL BE A MINIMUM OF 3/4" UNLESS NOTED OTHERWISE. ONLY THE FINAL RISE-DROP SHALL BE SMALLER. 4) FINAL SANITARY SIZE SHALL MATCH P-TRAP SIZE (REFER TO MATERIAL LIST).

TAG NAME	DESCRIPTION	COLD WATER	HOT WATER	SANITARY	VENT
FD-1	FLOOR DRAIN			2"	1 1/2"
SK-1	SINK (ACCESSIBLE)	1/2"	1/2"	1 1/2"	1 1/2"

**VENTILATION GENERAL NOTES:**

- UNLESS NOTED OTHERWISE, THE SIZE OF EACH BRANCH DUCT TO A TERMINAL AIR BOX SHALL BE DETERMINED BY THE FOLLOWING: 1. THE LENGTH OF THE BRANCH DUCT SHALL BE 10 FEET. 2. THE LENGTH, IN WHICH CASE THE BRANCH DUCT SHALL BE SIZED AT A PRESSURE DROP OF 0.07"WC PER 100' OF DUCTWORK. 3. UNLESS NOTED OTHERWISE, THE SIZE OF EACH BRANCH DUCT TO AN AIR TERMINAL SHALL MATCH THE INLET SIZE. 4. ALL TEMPERATURE SENSORS SHALL BE LOCATED ON CHES AND WHEN IN CLOSE PROXIMITY TO EACH OTHER. 5. PROVIDE ACCESS DOORS AT ALL DUCT MOUNTED EQUIPMENT. 6. ALL DUCT SHALL BE IDENTIFIED WITH SIGHT SIGN ON CHES AND WHEN IN CLOSE PROXIMITY TO EACH OTHER. 7. DRAWINGS SHALL BE PROVIDED FOR ALL DUCTWORK. 8. DRAWINGS SHALL BE PROVIDED, AND ARE FOR REFERENCE ONLY. CONTRACTOR SHALL USE PRE-BALANCE VALVES, AND NOT EXISTING CM SHOW ON DRAWINGS. 9. ALL DUCTWORK SHALL BE PROVIDED SIZES AND PRESSURE CLASSES ARE CORRECT, DUCT IS THOROUGHLY CLEANED AND FREE OF DEFECTS, AND ALL DUCT JOINTS, SEAMS, AND DUCT WALL PENETRATIONS ARE SEALED AS SPECIFIED FOR NEW DUCTWORK.

**PIPING GENERAL NOTES:**

1. THE SIZE OF BRANCH PIPING TO TERMINAL HEATING DEVICES AND COILS SHALL BE 3/4" UNLESS NOTED OTHERWISE.
2. PIPE DRAIN LINES FROM EQUIPMENT TO NEAREST FLOOR DRAIN.

### PLUMBING GENERAL NOTES:

1. THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR COMPLETION OF THE WORK.
2. CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A DESCRIPTION OF MATERIALS FROM THE MANUFACTURER AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN.
3. CONTRACT SHALL VERIFY THAT FIXTURES SUPPLIED ARE APPROVED PER ALL APPLICABLE STATE, LOCAL AND GOVERNING AUTHORITIES.
4. ALL FIXTURES SHALL CONFORM TO FEDERAL ASTM S 3874
5. CONTRACTORS SHALL REFER TO THE DRAWINGS AND MAY NOT BE ACCURATE. VERIFY ALL ELEVATIONS BEFORE BEGINNING WORK.
6. VERIFY UNDERGROUND PIPE SIZES, INVERT ELEVATIONS, AND LOCATIONS PRIOR TO BEGINNING ANY WORK.
7. PLUMBING TO BE PERFORMED IN SCHEDULE FOR THE SIZES OF BRANCH PIPES TO PLUMBING FIXTURES.
8. FOR CLARITY, NOT ALL VALVES HAVE BEEN SHOWN. PROVIDE SHUTOFF VALVES IN DOWNSTREAM PLUMBING SERVING EACH ROOM WITH FIXTURES. SINGLE STOPS SHALL NOT BE CONSIDERED SHUTOFF VALVES.
9. EXISTING CONDITIONS ON DEMOLITION PLANS ARE PROVIDED TO INDICATE THE GENERAL SCOPE OF ITEMS TO BE REMOVED.
10. P.O. SHALL CUT AND PATCH EXISTING AS REQUIRED FOR NEW OR DEMOLITION WORK UNLESS NOTED OTHERWISE.



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FOR THE CURATORS OF  
THE UNIVERSITY OF MISSOURI

# LOWRY HALL RENOVATE FIRST FLOOR

PROJECT NUMBER: CP220811

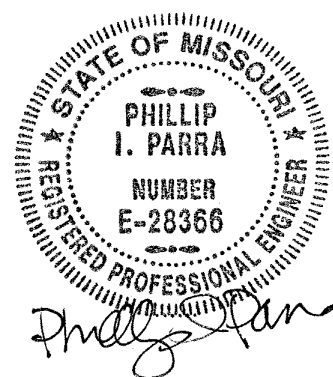
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MISSOURI

## ISSUED FOR BID

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United States

DATE:	11/14/2022
PROJ. NO.:	CP220811
DESIGNED BY:	CSB
DRAWN BY:	CSB
CHECKED BY:	SGB
APPROVED BY:	SGB

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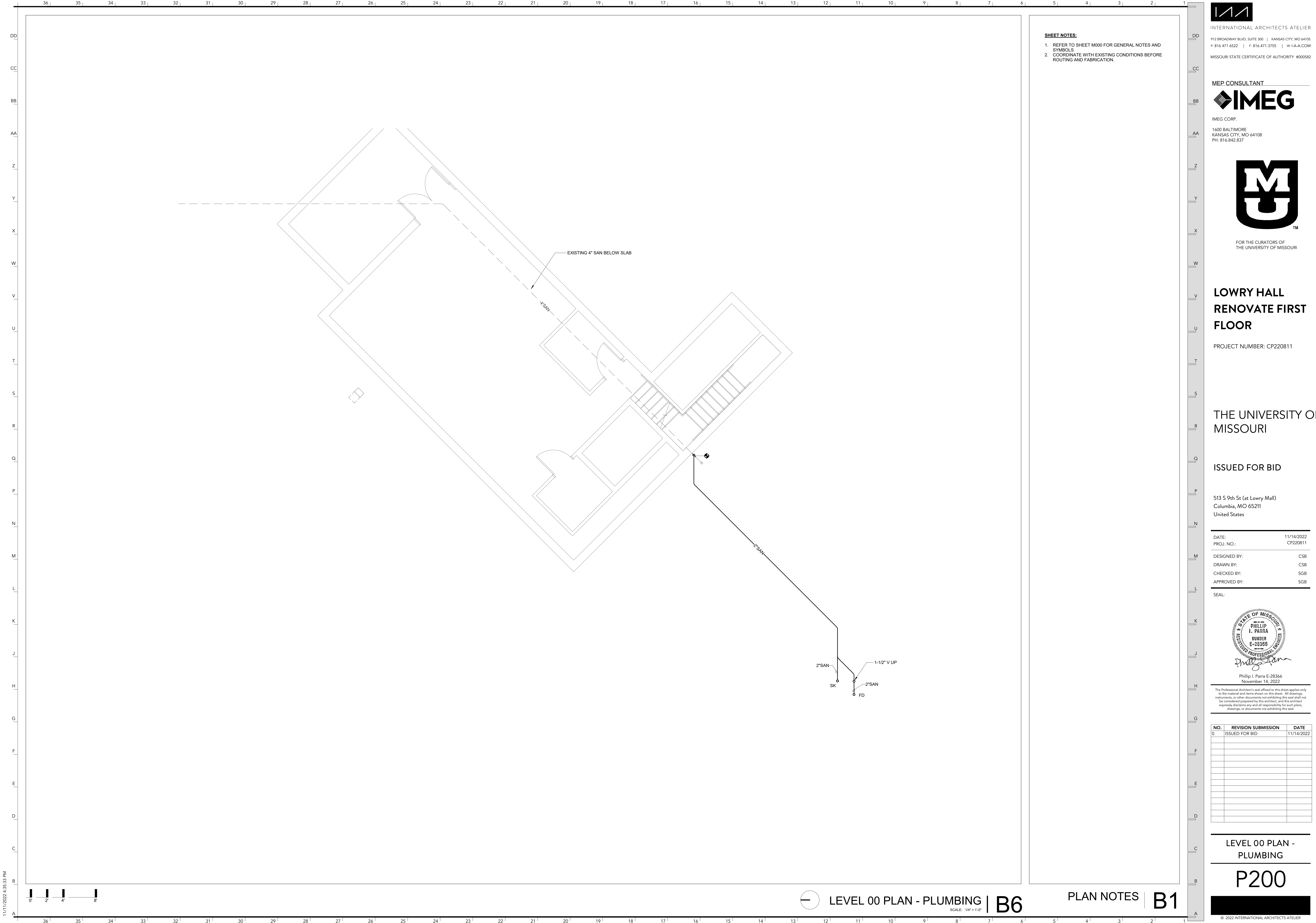


Phillip I. Parra E-28366

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[illegible]MECHANICAL  
COVERSHEET

M000



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RENOVATE FIRST  
FLOOR

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LEVEL 00 PLAN -  
PLUMBING

P200

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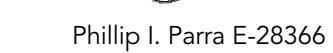
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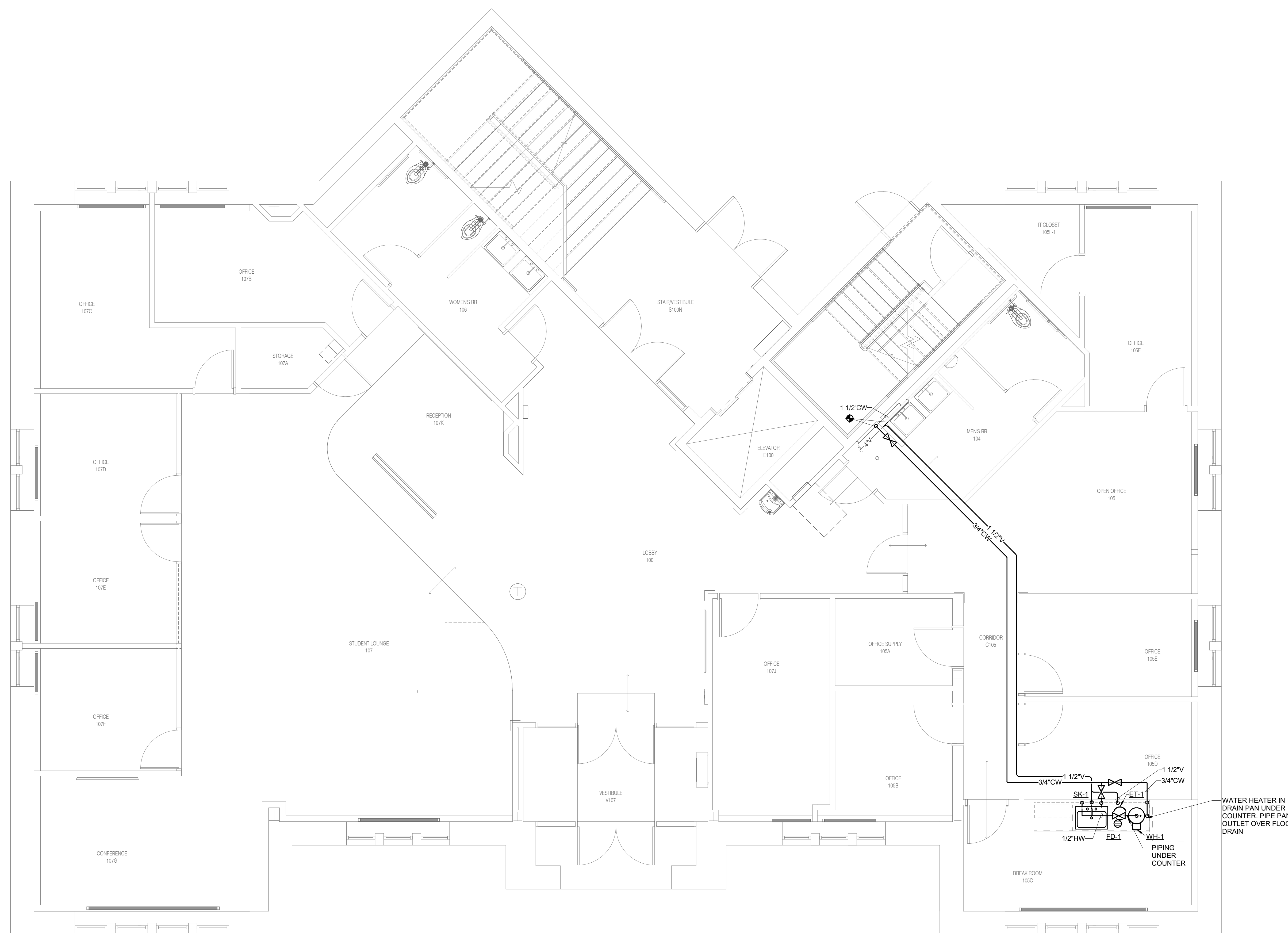


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LEVEL 01 PLAN -  
PLUMBING

P201



WATER HEATER IN  
DRAIN PAN UNDER  
COUNTER. PIPE PAN  
OUTLET OVER FLOOR  
DRAIN

LEVEL 01 PLAN - PLUMBING | B6

SCALE: 1/4" = 1'

PLAN NOTES | B1

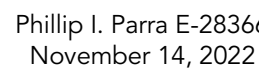
B-



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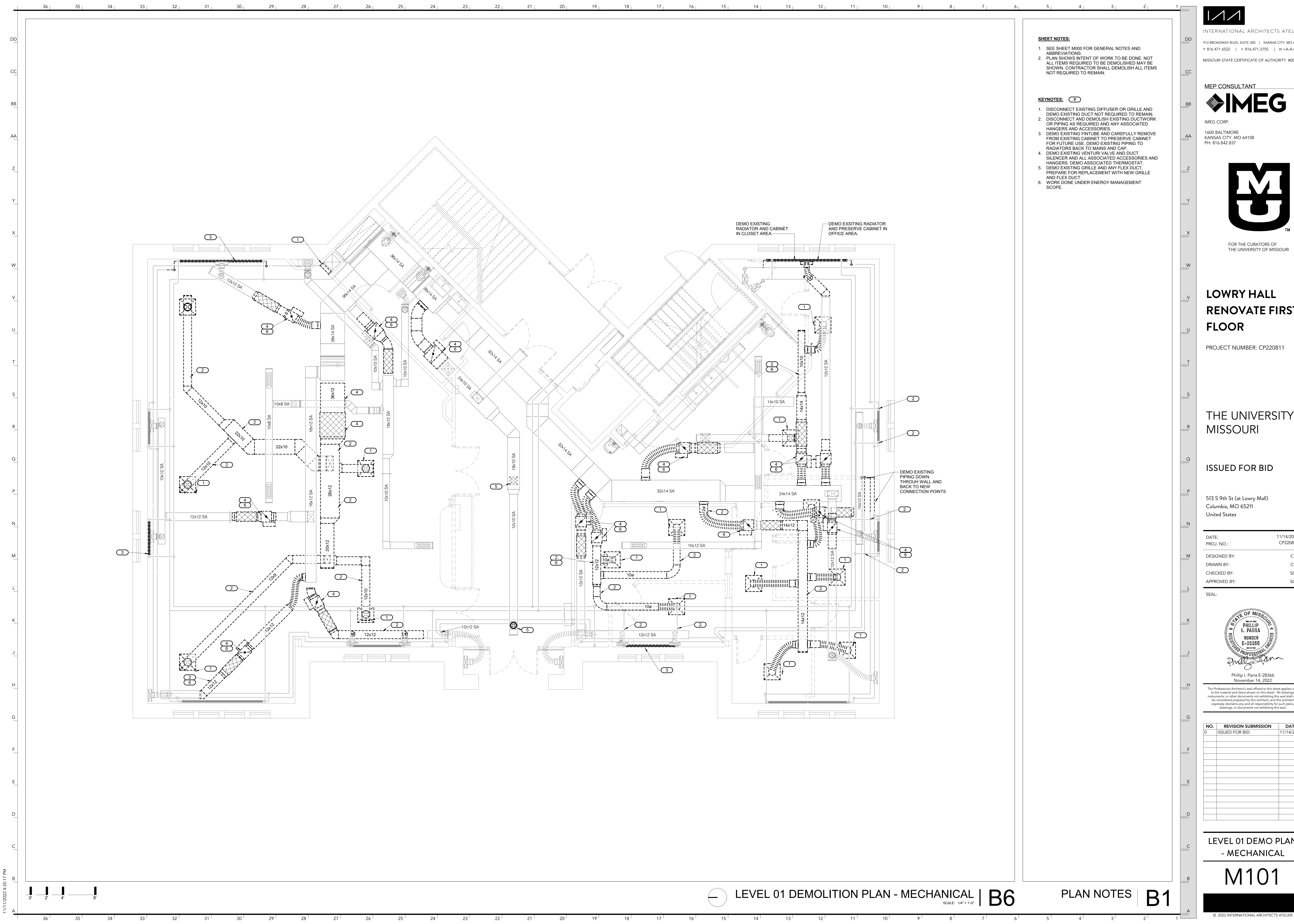
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## 1 WATER HEATER DETAIL



- SHEET NOTES:**
- SEE SHEET M000 FOR GENERAL NOTES AND ABBREVIATIONS.
  - PLAN SHOWS INTENT OF WORK TO BE DONE. NOT ALL ITEMS REQUIRED TO BE DEMOLISHED MAY BE SHOWN. CONTRACTOR SHALL DEMOLISH ALL ITEMS NOT REQUIRED TO REMAIN.

- KEYNOTES:** #
- DISCONNECT EXISTING DIFFUSER OR GRILLE AND DEMO EXISTING DUCT NOT REQUIRED TO REMAIN. DISCONNECT AND DEMOLISH EXISTING DUCTWORK OR PIPING AS REQUIRED AND ANY ASSOCIATED HANGERS AND ACCESSORIES.
  - DEMO EXISTING FINITUBE AND CAREFULLY REMOVE FROM EXISTING CABINET TO PRESERVE CABINET FOR FUTURE USE. DEMO EXISTING PIPING TO RADIATORS BACK TO MAINS AND CAP.
  - DEMO EXISTING VENTURI VALVE AND DUCT SILENCER AND ALL ASSOCIATED ACCESSORIES AND HANGERS. DEMO ASSOCIATED THERMOSTAT.
  - DEMO EXISTING GRILLE AND ANY FLEX DUCT. PREPARE FOR REPLACEMENT WITH NEW GRILLE AND FLEX DUCT.
  - WORK DONE UNDER ENERGY MANAGEMENT SCOPE.



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FOR THE CURATORS OF  
THE UNIVERSITY OF MISSOURI

**LOWRY HALL  
RENOVATE FIRST  
FLOOR**

PROJECT NUMBER: CP220811

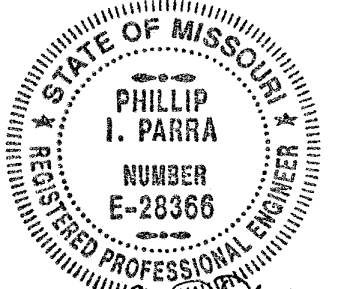
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CHECKED BY:	SGB
APPROVED BY:	SGB

SEAL:



Phillip I. Parra E-28366  
November 14, 2022

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**LEVEL 01 DEMO PLAN  
- MECHANICAL**

**M101**



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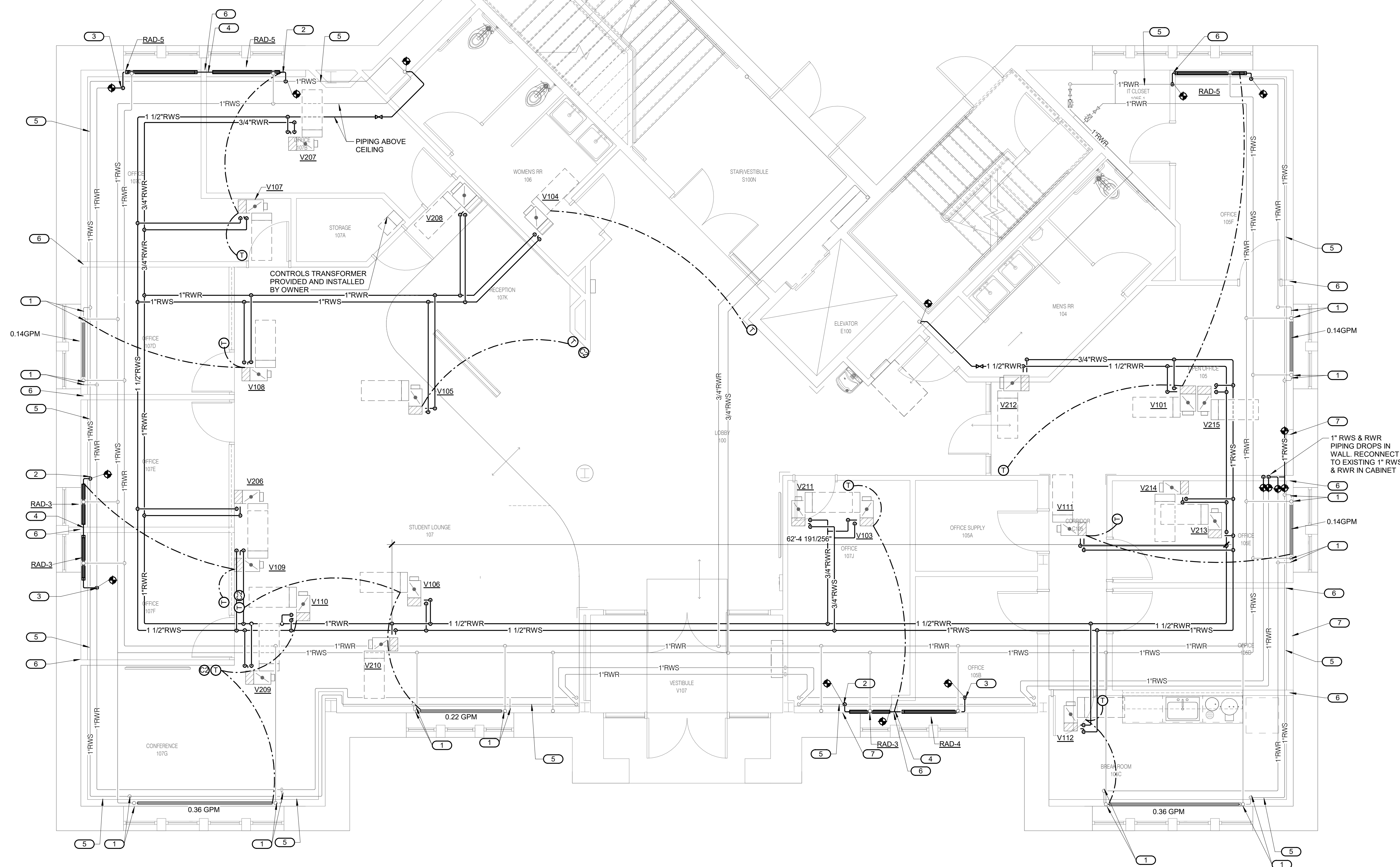


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LEVEL 01 PLAN -  
PIPING

# M201

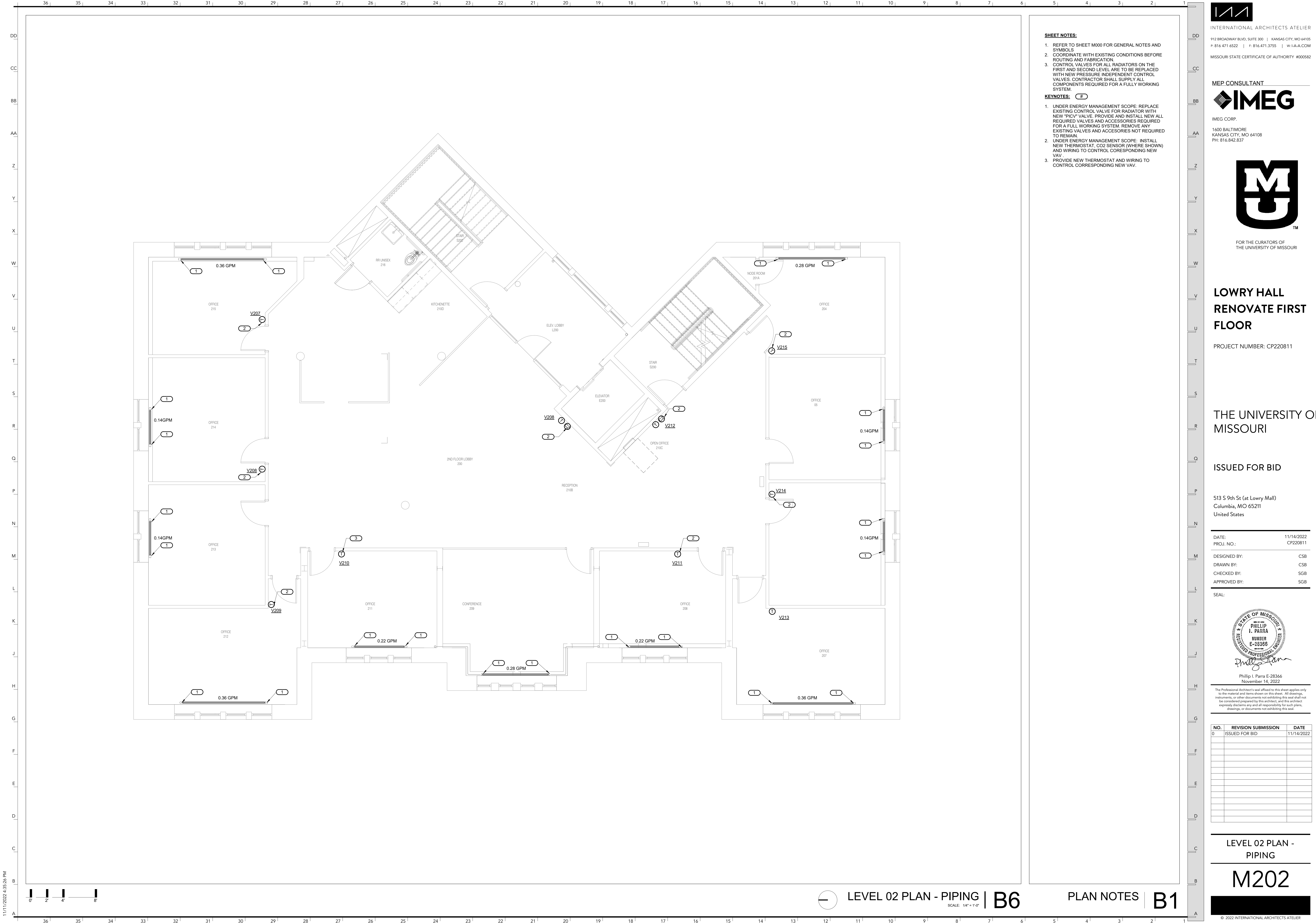


**SHEET NOTES:**

1. REFER TO SHEET M000 FOR GENERAL NOTES AND SYMBOLS
2. COORDINATE WITH EXISTING CONDITIONS BEFORE ROUTING AND FABRICATION.
3. CONTROL VALVES FOR ALL RADIATORS ON THE FIRST AND SECOND LEVEL ARE TO BE REPLACED WITH NEW PRESSURE INDEPENDENT CONTROL VALVES. CONTRACTOR SHALL SUPPLY ALL COMPONENTS REQUIRED FOR A FULLY WORKING SYSTEM.

**KEYNOTES:** #

1. UNDER ENERGY MANAGEMENT SCOP, REPLACE EXISTING CONTROL VALVE FOR RADIATOR WITH NEW "PICV" VALVE. PROVIDE AND INSTALL NEW ALL REQUIRED VALVES AND ACCESSORIES REQUIRED FOR THE WORK. PROVIDE AND INSTALL ALL EXISTING VALVES AND ACCESSORIES NOT REQUIRED TO REMAIN.
2. 3/4" R/W/3" FROM RADIATOR TO EXISTING PIPING. SEE DETAIL FOR REQUIRED CONNECTIONS AND ACCESSORIES.
3. 3/4" R/W/3" FROM RADIATOR TO EXISTING PIPING. SEE DETAIL FOR REQUIRED CONNECTIONS AND ACCESSORIES.
4. ROUTE 3/4" R/W/3" THROUGH WALL AND CONNECT TO SECOND RADIATOR IN ADJACENT ROOM. INSULATE PIPING THROUGH WALL, AND SEAL PIPE PENETRATIONS.
5. EXISTING R/W/3" AND R/W/1" PIPING IN CABINET.
6. CAREFULLY CUT EXISTING RADIATOR CABINET AS REQUIRED TO CLEAR NEW WALL FABRICATE AND INSTALL END CAPS FOR EXISTING RADIATOR CABINET. END CAPS TO BE MIN 18GA MINIMUM WITH CONCEALED FASTENERS. PROVIDE MOCK-UP BEFORE FABRICATING AND INSTALLING END CAPS.



- SHEET NOTES:**
- REFER TO SHEET M000 FOR GENERAL NOTES AND SYMBOLS.
  - COORDINATE WITH EXISTING CONDITIONS BEFORE ROUTING AND FABRICATION.
  - CONTROL VALVES FOR ALL RADIATORS ON THE FIRST AND SECOND LEVEL ARE TO BE REPLACED WITH NEW PRESSURE INDEPENDENT CONTROL VALVES. CONTRACTOR SHALL SUPPLY ALL COMPONENTS REQUIRED FOR A FULLY WORKING SYSTEM.
- KEYNOTES:**
- UNDER ENERGY MANAGEMENT SCOPE: REPLACE EXISTING CONTROL VALVE FOR RADIATOR WITH NEW "PICV" VALVE. PROVIDE AND INSTALL NEW ALL REQUIRED VALVES AND ACCESSORIES REQUIRED FOR A FULL WORKING SYSTEM. REMOVE ANY EXISTING VALVES AND ACCESSORIES NOT REQUIRED TO REMAIN.
  - UNDER ENERGY MANAGEMENT SCOPE: INSTALL NEW THERMOSTAT, CO2 SENSOR (WHERE SHOWN) AND WIRING TO CONTROL CORRESPONDING NEW VAV.
  - PROVIDE NEW THERMOSTAT AND WIRING TO CONTROL CORRESPONDING NEW VAV.

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**THE UNIVERSITY OF MISSOURI**  
FOR THE CURATORS OF THE UNIVERSITY OF MISSOURI

**LOWRY HALL  
RENOVATE FIRST  
FLOOR**

PROJECT NUMBER: CP220811

**THE UNIVERSITY OF  
MISSOURI**

**ISSUED FOR BID**

513 S 9th St. (at Lowry Mall)  
Columbia, MO 65211  
United States

DATE:	11/14/2022
PROJ. NO.:	CP220811
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DRAWN BY:	CSB
CHECKED BY:	SGB
APPROVED BY:	SGB

SEAL:

**THE UNIVERSITY OF MISSOURI**  
PHILLIP I. PARRA  
NUMBER E-28366  
November 14, 2022

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**LEVEL 02 PLAN -  
PIPING**

**M202**

# LOWRY HALL RENOVATE FIRST FLOOR

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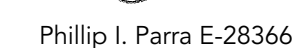
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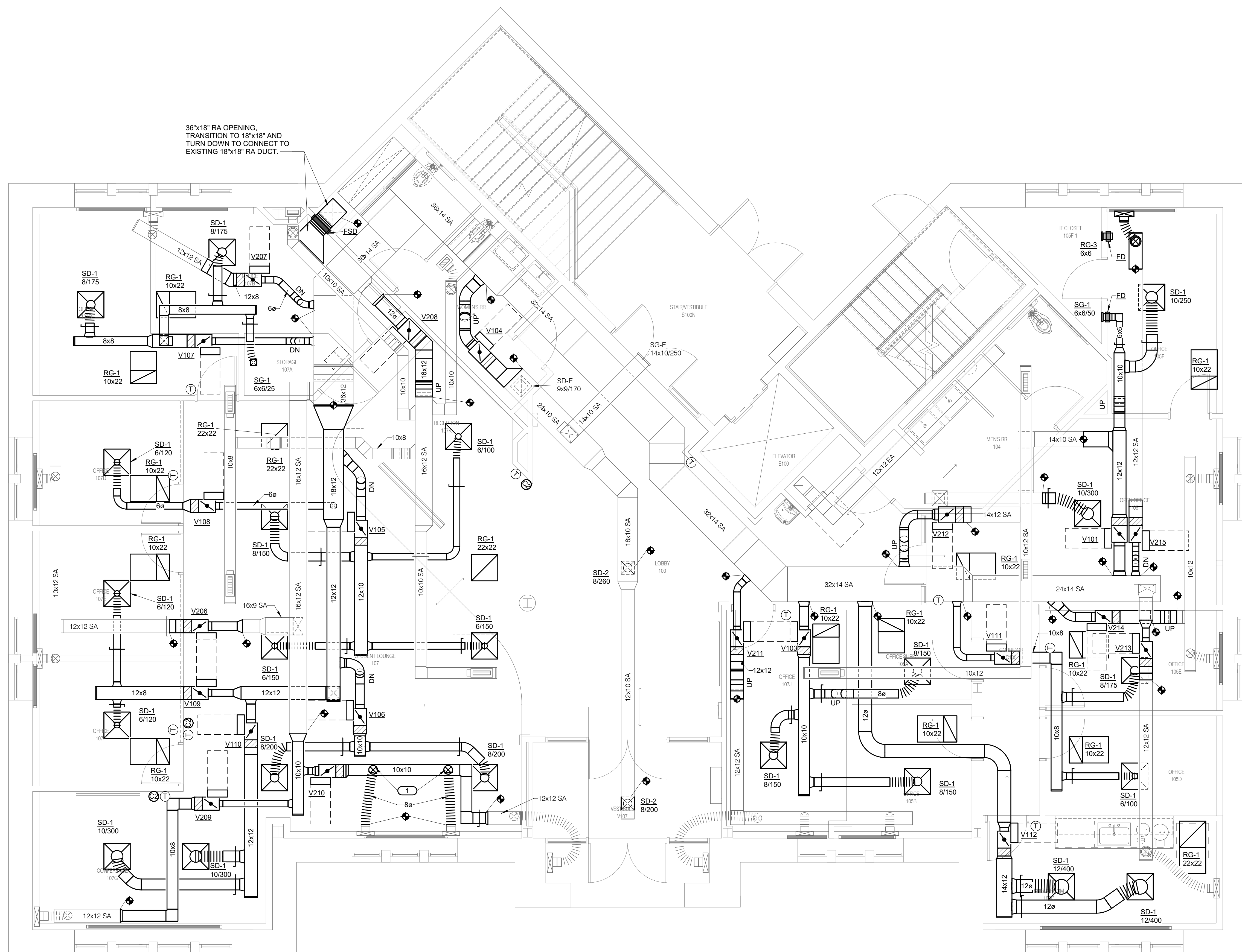


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LEVEL 01 PLAN -  
VENTILATION

M21 1



**SHEET NOTES:**

1. REFER TO SHEET M000 FOR GENERAL NOTES AND SYMBOLS
2. COORDINATE WITH EXISTING CONDITIONS BEFORE ROUTING AND FABRICATION.
3. REBALANCE EXISTING FANS, BOXES AND AHU AS REQUIRED TO ACCOMMODATE NEW DESIGN.

**KEYNOTES:** 

1. PROVIDE WITH HAND DAMPER AT TAKE-OFF WITH WORM GEAR REMOTE ADJUSTMENT

LEVEL 01 PLAN - VENTILATION | B6  
SCALE: 1/4" = 1'-0"

PLAN NOTES | B1





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## MECHANICAL SCHEDULES

# M600

AIR TERMINAL SCHEDULE									
NOTES: 1. CONTRACTOR SHALL DETERMINE PROPER BORDER TYPE TO MATCH CEILING CONSTRUCTION. 2. REFER TO DRAWINGS FOR NECK SIZE. ALL BRANCH DUCTWORK TO AIR TERMINALS SHALL BE NECK SIZE UNLESS NOTED OTHERWISE.									
TAG NAME	FACE SIZE (IN.) (NOTE 2)	TYPE	BORDER (NOTE 1)	MATERIAL	FINISH	VOLUME DAMPER REQUIRED	MANUFACTURER	MODEL	NOTES
SD-1	24x24	PANEL FACE	LAY-IN	STEEL	WHITE	NO	TITUS	OMNI	FLUSH FACE PANEL
SD-2	12x12	PANEL FACE	SURFACE MOUNT	STEEL	WHITE	NO	TITUS	OMNI	FLUSH FACE PANEL
SG-1	INLET +2	DOUBLE DEFLECTION	1 1/4"	STEEL	WHITE	NO	TITUS	300R	FRONT BLADES VERTICAL UNLESS NOTED OTHERWISE
RG-1	24x24	EGGCRATE GRILLE	LAY-IN	STEEL	WHITE	NO	TITUS	50F	
RG-1	24x24	EGGCRATE GRILLE	LAY-IN	STEEL	WHITE	NO	TITUS	50F	
RG-3	INLET +2	35 DEGREE DEFLECTION	1 1/4"	STEEL	WHITE	NO	TITUS	350R	

### TERMINAL AIR BOX SCHEDULE - SINGLE DUCT

NOTES:

1. NEITHER RADIATED NOR DISCHARGE SOUND LEVELS SHALL EXCEED NC 35 AT 1.5" INLET STATIC PRESSURE WHEN TESTED PER AHRI STANDARD 885-2008 USING 5/8" 20-LB DENSITY MINERAL FIBER CEILING TILE.
2. TOTAL AIR PRESSURE DROP OF TAB AND REHEAT COIL SHALL NOT EXCEED 0.50" WC.
3. REFER TO CONTROL DRAWINGS FOR DESCRIPTION OF CONTROL TYPE.
4. SENSOR ONLY, 2 - SENSOR WITH ADJUSTMENT, 3 - SENSOR WITH OVERRIDE, 4 - SENSOR WITH ADJUSTMENT AND OVERRIDE.
5. HEATING COILS ARE BASED ON HEATING AIR FLOW. WATER PRESSURE DROP OF REHEAT COILS SHALL NOT EXCEED 5'. PROVIDE REHEAT COILS SEPARATE FROM BOXES IF REQUIRED TO MEET WATER PRESSURE DROP REQUIREMENTS. WHEN LAT 'F', EWT 'F' AND GPM VALUES ARE BLANK, HEATING COIL IS NOT REQUIRED FOR TAB.
6. HEATING COIL SELECTION SHALL BE BASED ON A FIXED LEAVING AIR TEMPERATURE AND VARIABLE FLOW (GPM). PROVIDE FINAL MAXIMUM FLOW RATE (GPM) TO TEST & BALANCE TEMPERATURE CONTROLS CONTRACTORS.
7. BOX SHALL HAVE CO2 SENSOR TO CONTROL VENTILATION RATE. CO2 SETPOINT SHALL BE 750PPM

CFM				HEATING COIL (NOTES 5, 6)						MIN. INLET SIZE (IN.) DIA.	CONTROL TYPE (NOTE 3)	SENSOR TYPE (NOTE 4)	MANUFACTURER	MODEL (NOTES 1, 2)	NOTES
TAG NAME	COOLING MAX.	HEATING MAX.	OCCUPIED MIN.	MIN.	EAT °F	LAT °F	EWT °F	MAX. GPM							
V101	800	360	360	145	55.0	80.0	180	0.7	10"	TAB-A	2	TITUS	DESUV	NOTES 1, 2	
V103	450	300	90	50	55.0	80.0	180	0.5	8"	TAB-A	2	TITUS	DESUV	NOTES 1, 2	
V104	880	880	880	145	55.0	80.0	180	1.6	10"	TAB-A	2	TITUS	DESUV	NOTES 1, 2	
V105	550	550	250	90	55.0	80.0	180	1.0	8"	TAB-A	2	TITUS	DESUV	NOTES 1, 2, 7	
V106	400	400	200	90	55.0	80.0	180	0.7	8"	TAB-A	2	TITUS	DESUV	NOTES 1, 2, 7	
V107	375	215	215	45	55.0	80.0	180	0.4	6"	TAB-A	2	TITUS	DESUV	NOTES 1, 2	
V108	120	75	75	45	55.0	80.0	180	0.1	6"	TAB-A	2	TITUS	DESUV	NOTES 1, 2	
V109	150	150	150	45	55.0	80.0	180	0.3	8"	TAB-A	2	TITUS	DESUV	NOTES 1, 2	
V110	600	270	110	90	55.0	80.0	180	0.5	8"	TAB-A	2	TITUS	DESUV	NOTES 1, 2, 7	
V111	275	210	210	45	55.0	80.0	180	0.4	6"	TAB-A	2	TITUS	DESUV	NOTES 1, 2	
V112	800	360	360	145	55.0	80.0	180	0.6	8"	TAB-A	2	TITUS	DESUV	NOTES 1, 2	
V206	500	310	310	90	55.0	80.0	180	0.6	8"	TAB-A	2	TITUS	DESUV	NOTES 1, 2	
V207	350	150	150	45	55.0	80.0	180	0.3	6"	TAB-A	2	TITUS	DESUV	NOTES 1, 2	
V208	1400	515	515	190	55.0	80.0	180	0.9	12"	TAB-A	2	TITUS	DESUV	NOTES 1, 2, 7	
V209	250	100	100	45	55.0	80.0	180	0.2	6"	TAB-A	2	TITUS	DESUV	NOTES 1, 2, 7	
V210	350	175	175	90	55.0	80.0	180	0.3	8"	TAB-A	2	TITUS	DESUV	NOTES 1, 2	
V211	350	175	175	90	55.0	80.0	180	0.3	6"	TAB-A	2	TITUS	DESUV	NOTES 1, 2	
V212	750	375	375	145	55.0	80.0	180	0.7	10"	TAB-A	2	TITUS	DESUV	NOTES 1, 2	
V213	250	125	125	45	55.0	80.0	180	0.2	6"	TAB-A	2	TITUS	DESUV	NOTES 1, 2	
V214	500	310	310	90	55.0	80.0	180	0.6	8"	TAB-A	2	TITUS	DESUV	NOTES 1, 2	
V215	250	140	140	45	55.0	80.0	180	0.3	6"	TAB-A	2	TITUS	DESUV	NOTES 1, 2	

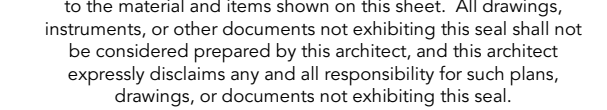
## RADIATION SCHEDULE

NOTES:  
1.REFER TO CONTROL DRAWINGS FOR DESCRIPTION OF CONTROL TYPE  
2.RADIATORS ARE BARE ELEMENTS TO BE PLACED IN EXISTING CABINET

			ELEMENT								AVERAGE WATER TEMP °F	CONTROL TYPE (NOTE 1)	MANUFACTURER	MODEL	NOTES
TAG NAME	MBH	GPM	MAT'L	LENGTH FT.	PIPE SIZE	FIN HEIGHT	FIN WIDTH	NUMBER OF ROWS	FIN SPS FOOT						
RAD-3	1620	0.11	ALUMINUM	3' - 0"	3/4"	2 1/4"	2 3/4"	1	60	165	TAB-A	<varies>	<varies>	NOTES 1, 2	
RAD-4	2160	0.14	ALUMINUM	4' - 0"	3/4"	2 1/4"	2 3/4"	1	60	165	TAB-A	VULCAN	VR01	NOTES 1, 2	
RAD-5	2700	0.18	ALUMINUM	5' - 0"	3/4"	2 1/4"	2 3/4"	1	60	165	TAB-A	<varies>	<varies>	NOTES 1, 2	



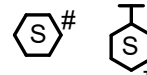




















DATE:	11/14/2022
PROJ. NO.:	CP220811
DESIGNED BY:	ZMB










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CONTRACTOR ABBREVIATION KEY	
ABBR:	DESCRIPTION:
A.C.	ASBESTOS ABATEMENT CONTRACTOR
A.V.C.	AUDIO/VISUAL CONTRACTOR
C.C.	CIVIL CONTRACTOR
C.M.	CONSTRUCTION MANAGER
E.C.	ELECTRICAL CONTRACTOR
F.P.C.	FIRE PROTECTION CONTRACTOR
F.S.C.	FOOD SERVICE CONTRACTOR
G.C.	GENERAL CONTRACTOR
H.C.	HEATING CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
N.C.C.	NURSE CALL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
S.C.	SECURITY CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR
V.C.	VENTILATION CONTRACTOR

ELECTRICAL SYMBOL LIST			
SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
	<u>FA-CP-#</u>	28 31 00	FIRE ALARM CONTROL PANEL
	<u>FA-A-#</u>	28 31 00	FIRE ALARM ANNUNCIATOR
	<u>FA-120</u>	28 31 00	FIRE ALARM SMOKE DETECTOR, CEILING OR WALL MOUNT
			BLANK = PHOTOELECTRIC AT = ATTIC (LOCATED IN) BR = BEAM RECEIVER BT = BEAM TRANSMITTER CO = COMBINATION SMOKE / CARBON MONOXIDE COH = COMBINATION SMOKE / CARBON MONOXIDE / HEAT COS = COMBINATION SMOKE / CARBON MONOXIDE / STROBE H = COMBINATION SMOKE / HEAT DETECTOR ION = IONIZATION TYPE ID = IN DUCT DETECTOR SA = STAND ALONE WITH SOUNDER SB = SOUNDER BASE SV = STAND ALONE WITH SOUNDER AND 177 CANDELA STROBE
	<u>FA-122</u>	28 31 00	FIRE ALARM DUCT SMOKE DETECTOR
	<u>FA-130</u>	28 31 00	FIRE ALARM MANUAL PULL STATION
	<u>FA-131</u>	28 31 00	FIRE ALARM MANUAL PULL STATION W/ COVER
	<u>FA-200</u>	28 31 00	FIRE ALARM VISUAL ALARM DEVICE, CEILING OR WALL MOUNT
			# = CANDELA RATING, CD = CANDELA RATING SELECTED BY NICET DESIGNER
	<u>FA-210</u>	28 31 00	AUDIO HORN/CHIME ALARM DEVICE, CEILING OR WALL MOUNTED
	<u>FA-211</u>	28 31 00	COMBINATION AUDIO HORN/CHIME AND VISUAL ALARM DEVICE, CEILING OR WALL MOUNTED
			# = CANDELA RATING CD = CANDELA RATING SELECTED BY NICET DESIGNER
	<u>FA-261</u>	28 31 00	FIRE ALARM TAMPER SWITCH TO MONITOR SPRINKLER SYSTEM
	<u>FA-160</u>	28 31 00	FIRE ALARM ADDRESSABLE MONITOR MODULE
			BLANK = REFER TO PLANS KB = KNOX BOX MONITOR
	<u>FA-161</u>	28 31 00	FIRE ALARM ADDRESSABLE CONTROL MODULE
			BLANK = REFER TO PLANS LC = LIGHTING CONTROL OVERRIDE DH = DOOR HOLD OPEN PD = HOLD OPEN OVERRIDE
	<u>FA-271</u>	28 31 00	FIRE ALARM DOOR HOLD DEVICE (BY OTHERS, WIRED BY E.C.)
			DH = ELECTROMAGNETIC DOOR HOLD DEVICE PD - HOLD OPEN OVERRIDE CONNECTION
	<u>FA-270</u>	28 31 00	FIRE ALARM DOOR HOLD DEVICE (BY E.C.)

ELECTRICAL SYMBOL LIST			
SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
	<u>REC-DUP</u>	26 27 26	DUPLEX RECEPTACLE, 125V
	<u>REC-DUP-GFI</u>	26 27 26	DUPLEX GFI RECEPTACLE, 125V
	<u>REC-SIM-520R</u>	26 27 26	SIMPLEX RECEPTACLE, 125V
	<u>REC-SIM-530R</u>	26 27 26	RECEPTACLE, 125V
	<u>REC-SIM-620R</u>	26 27 26	RECEPTACLE, 6-20R, 250V
	<u>REC-SIM-630R</u>	26 27 26	RECEPTACLE, 6-30R, 250V
	<u>REC-TAMP</u>	26 27 26	DUPLEX RECEPTACLE, TAMPER RESISTANT, 125V
	<u>REC-TAMP-QUAD</u>	26 27 26	QUAD RECEPTACLE, TAMPER RESISTANT, 125V
	<u>REC-QUAD</u>	26 27 26	QUAD RECEPTACLE, 125V
	<u>REC-QUAD-GFI</u>	26 27 26	QUAD GFI RECEPTACLE, 125V

ELECTRICAL SYMBOL LIST			
SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
S	<u>SW-1P</u>	26 09 33	SWITCH - SINGLE POLE
S <sub>3</sub>	<u>SW-3W</u>	26 09 33	SWITCH - THREE WAY
S <sub>4</sub>	<u>SW-4W</u>	26 09 33	SWITCH - FOUR WAY
D <sub>L</sub>	<u>SW-D-LVM</u>	26 09 33	DIMMER - LOW VOLTAGE, 0-10V
D <sub>D</sub>	<u>SW-D-LD</u>	26 09 33	DIMMER - LED
D <sub>O</sub>	<u>SW-OD</u>	26 09 33	DIMMER - WALL DIMMER OCCUPANCY SENSOR
(R)	<u>SW-L-S-R</u>	26 09 33	WATTSTOPPER DIGITAL LIGHTING MANAGEMENT ROOM CONTROLLER. # - REFERS TO NUMBER OF RELAYS D - REFERS TO 0-10V DIMMING CONTROLLER
(PC)	<u>SW-L-S-PC</u>	26 09 33	PHOTOCELL
(OC) <sub>D</sub>	<u>SW-OC-D</u>	26 09 33	OCCUPANCY SENSOR - DUAL TECHNOLOGY
(OC) <sub>P2</sub>	<u>SW-OC-P2</u>	26 09 33	OCCUPANCY SENSOR - PASSIVE INFRARED 100 DEGREE COVERAGE
(OC) <sub>D</sub>	<u>SW-OC-D-W</u>	26 09 33	OCCUPANCY SENSOR - DUAL TECHNOLOGY - WALL MOUNTED
S <sub>O</sub>	<u>SW-OC-P-Q</u>	26 09 33	SWITCH - OCCUPANCY SENSOR WALL SWITCH
SW	<u>SW</u>	26 09 33	WALL CONTROL STATION
TC	<u>TC-#</u>	26 09 33	TIME SWITCH
#B	<u>SW-D-CB</u>	26 09 33	DIMMER CONTROL STATION # - INDICATES NUMBER OF ZONES CONTROLLED
S <sub>LV</sub>	<u>SW-LV</u>	26 09 33	CENTRAL CONTROL - STATION
LC	<u>LCS-#</u>	26 09 33	LIGHTING CONTROL STATION
ALCR	<u>ALCR20</u>	26 09 33	AUTOMATIC LOAD CONTROL RELAY

ELECTRICAL SYMBOL LIST			
SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
      	REFER TO LUMINAIRE SCHEDULE		LINEAR LUMINAIRES  TROFFER  WALL SCONCE LUMINAIRE  DOWNLIGHT LUMINAIRE  SINGLE FACE EXIT SIGN  DOUBLE FACE EXIT SIGN  EMERGENCY UNIT

LUMINAIRE SYMBOL KEY	
SYMBOL:	DESCRIPTION:
 ○	NORMAL BRANCH LUMINAIRE
 ⓘ	EMERGENCY LUMINAIRE UNSWITCHED FOR NIGHT LIGHT, UNLESS NOTED 'SE'

4. THE ELECTRICAL LIGHTING DRAWINGS INDICATE EXISTING ELECTRICAL ITEMS TO BE REMOVED. THE DRAWINGS ARE INTENDED TO INDICATE THE SCOPE OF WORK REQUIRED TO REMOVE EXISTING ELECTRICAL EQUIPMENT AND TO PROVIDE A MEANS FOR THE CONTRACTOR SHALL VISIT THE SITE LOCATION TO SUBMIT A BID AND VERIFY EXISTING CONDITIONS.
5. VERIFY REMOVAL IN CERTAIN LOCATIONS MAY REQUIRE THE INSTALLATION OF A JUNCTION BOX TO RECONNECT CIRCUITS THAT REMAIN IN OPERATION. EXTEND CONDUIT TO NEW LIGHT FIXTURES.
6. BALLASTS MANUFACTURED PRIOR TO 1980 CONTAIN PCBs AND SHALL BE DISPOSED OF BY A FEDERAL OR STATE E.P.A. APPROVED METHOD AND IN ACCORDANCE WITH SPECIFICATIONS.
7. HID AND FLUORESCENT LAMPS CONTAIN MERCURY AND SHALL BE DISPOSED OF BY A FEDERAL OR STATE E.P.A. APPROVED METHOD AND IN ACCORDANCE WITH SPECIFICATIONS.
8. REUSE EXISTING CONDUIT, CIRCUITS AND LIGHTING CONTROL WHERE POSSIBLE. PROVIDE NEW CONDUIT AND WIRE WHERE SHOWN, MISSING OR REQUIRED TO INSTALL THE NEW LIGHTING.
9. WHERE REMOVED EXTERIOR LIGHT FIXTURE IS NOT BEING REPLACED, PROVIDE A PROPER GROUNDING AND WIRING CONNECTION TO THE REMAINING SYSTEM.
10. VERIFY MANUFACTURERS INSTALLATION GUIDELINES WITH EXISTING FIELD CONDITIONS PRIOR TO BIDDING AND ORDERING NEW LIGHT FIXTURES AND INSTALLATION MATERIAL. PROVIDE A PROPER GROUNDING AND WIRING CONNECTION TO THE REMAINING SYSTEM.
11. COVER EXISTING JUNCTION BOX OR PAINTED SURFACE. PROVIDE CUSTOM BACK PANEL WHEN NECESSARY TO COVER ANY FIELD CONDITIONS THAT WOULD ALLOW INTRUSION INTO THE ELECTRICAL SYSTEM.
12. COORDINATE EXISTING LIGHTING CONTROL AND REPROGRAM PHOTOCELLS AS NECESSARY TO MEET EXISTING CONTROL SEQUENCES. VERIFY WITH OWNER ANY CHANGES.
13. VERIFY WITH EXISTING CONDITIONS PRIOR TO REMOVING ALL FIXTURES WITH A QUARTZ RESTRIKE. THE QUARTZ RESTRIKE IS A SEPARATE CIRCUIT, NOTIFY THE ENGINEERING IMMEDIATELY.

2. "NL" INDICATES LUMINAIRE IS UNSWITCHED FOR NIGHT LIGHT.

3. "NL" INDICATES LUMINAIRE IS SWITCHED/CONTROLLED DURING NORMAL OPERATION AND EMERGENCY OPERATION (BATTERY) (EXTEND UNSWITCHED CIRCUIT LEG TO BATTERY) UPON LOSS OF POWER.

4. SHADED LUMINAIRE OR DEVICE INDICATES LUMINAIRE OR DEVICE IS CONNECTED TO AN EMERGENCY CIRCUIT.

5. REFER TO SHEET E600 FOR LUMINAIRE SCHEDULE.

6. "Z" DENOTES LIGHTING ZONES FOR THE SPACE. PROVIDE SEPARATE CONTROL FOR EACH CONTROLLED ZONE. LUMINAIRES ASSOCIATED WITH THE SAME ZONE SHALL OPERATE WITHIN THE SAME PROGRAMMED SCENE. REFER TO SHEET E600.

7. "LH" DENOTES LIGHTING SCENES. CONTROL STATION SHALL BE CAPABLE OF RAISE/LOWER AND SWITCHING ON/OFF FOR MULTIPLE SCENES AS INDICATED ON SHEETS AND THE LIGHTING SEQUENCE OF OPERATIONS (LH). COORDINATE QUANTITIES OF LIGHTING AND CONTROL STATIONS WITH LIGHTING CONTROL MANUFACTURER. REFER TO SHEET E600.

8. ("LH") DENOTES THE LIGHTING SEQUENCE OF OPERATIONS FOR THIS SPACE. REFER TO SHEET E600 FOR LIGHTING SEQUENCE OF OPERATIONS.

9. VACANCY/OCCUPANCY SENSOR LAYOUT: SENSORS ARE SHOWN ON THE PLANS FOR VACANCY/OCCUPANCY SENSOR LAYOUT. PROVIDE MANUFACTURER, MODEL NUMBER, AND SPECIFIC FLOOR PLAN LAYOUTS SHOWING LOCATION, ORIENTATION, AND COVERAGE AREA OF EACH FLOOR PLAN DEVICE, SENSOR, AND CONTROLLER/INTERFACE. AREAS REQUIRING VACANCY/OCCUPANCY SENSORS SHALL BE IDENTIFIED BY THE MANUFACTURER, MANUFACTURER-APPROVED SENSOR LAYOUT AS AN OVERLAY LAYER ON THE PROJECT DRAWINGS, EITHER IN PRINT OR PROVIDED ELECTRONIC FORM.

**LUMINAIRE KEY:**

	FL = FIXTURE TAG
	T = CIRCUIT NUMBER
LUMINAIRE	a = SWITCH DESIGNATION
	NL = ZONE DESCRIPTION (IF APPLICABLE)
	z = ZONE DESIGNATION

THESE NOTES APPLY TO ALL ELECTRICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, LIGHTING, POWER, AND SYSTEMS.

1. ALL FIELD WORK SHALL BE BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDINGS DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.

2. NOT ALL EXISTING EQUIPMENT, LUMINAIRES, AND CONDUIT ARE SHOWN. VERIFY EXISTING EQUIPMENT, LUMINAIRES, AND CONDUIT BEFORE STARTING WORK.

3. FIELD VERIFY THE AVAILABLE CLEARANCES FOR CABLE TRAY, BUSWAY AND CONDUITS BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.

4. EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF THEIR WORK AND SHALL NOTIFY THE GENERAL CONTRACTOR AND ARCHITECT/ENGINEER PRIOR TO BIDDING IF ANY UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO FIELD CONDITIONS.

5. EACH CONTRACTOR SHALL CUT AND PATCH ROOFS, WALLS, AND FLOORS ASSOCIATED WITH THEIR WORK.

6. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING.

7. WHEN EXISTING ELECTRICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, CONDUIT, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT INTERFERE WITH THE EXISTING ELECTRICAL SYSTEMS OR THE ELECTRICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.

[illegible]





PROJECT NUMBER: CP220811

THE UNIVERSITY OF  
MISSOURI

ISSUED FOR BID

513 S 9th St (at Lowry Mall)  
Columbia, MO 65211  
United States

DATE: 11/14/2022  
PROJ. NO.: CP220811

DESIGNED BY: ZMB  
DRAWN BY: ZMB  
CHECKED BY: PLR  
APPROVED BY: PLR

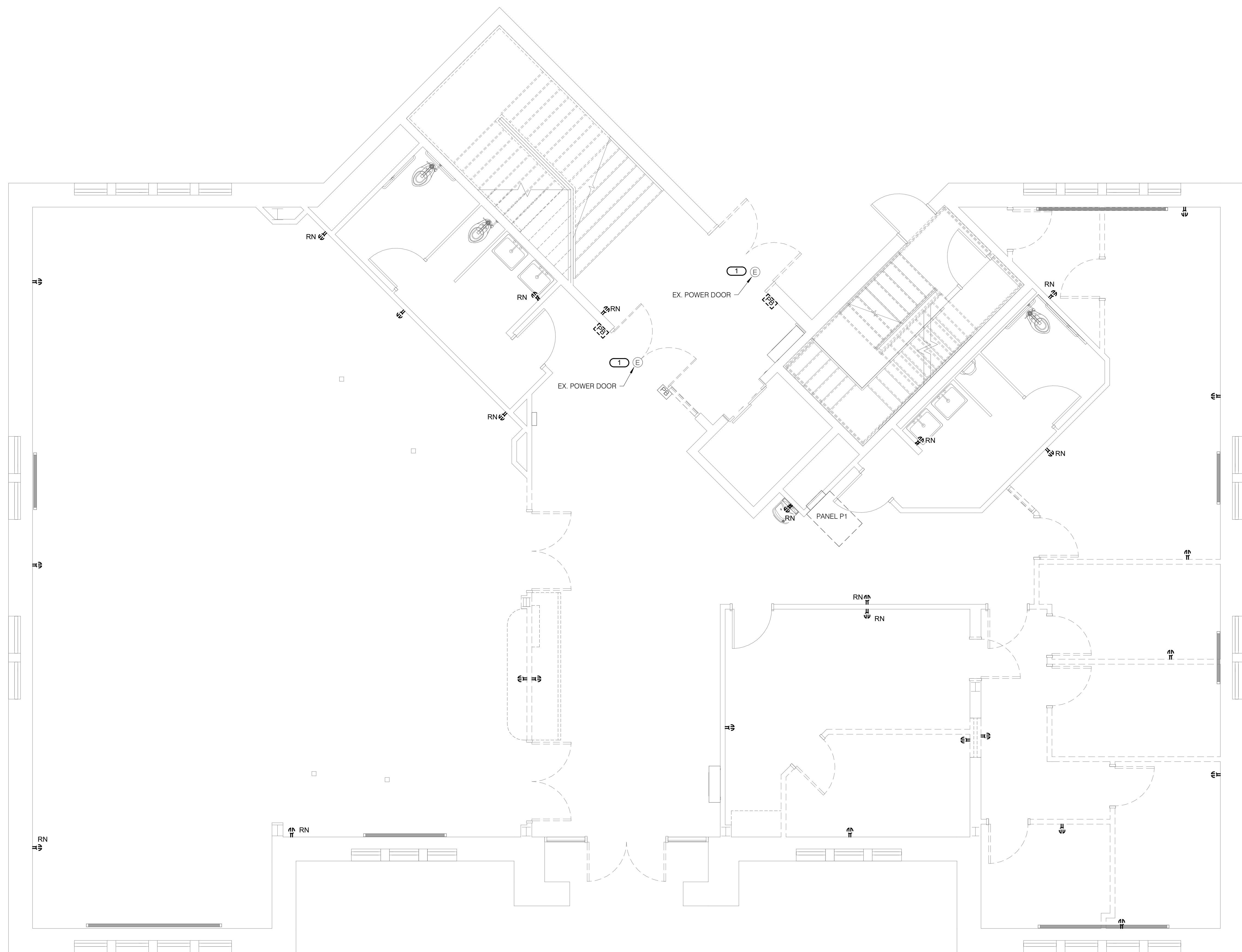
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E111



**SHEET NOTES:**

1. REFER TO SHEET E000 FOR GENERAL NOTES AND SYMBOLS.
2. DISCONNECT AND REMOVE POWER DEVICES SHOWN AS DEMOLISHED AND ALL ASSOCIATED WIRE AND CONDUIT NOT REQUIRED TO REMAIN. ALL POWER DEVICES SHOWN AS DEMOLISHED NOTED WITH "RN" SHALL HAVE THE EXISTING DEVICE AND WIRING DISCONNECTED AND REMOVED DURING DEMOLITION. THE ASSOCIATED JUNCTION BOX AND CONDUIT IN WALL SHALL REMAIN FOR RE-USE.
4. DISCONNECT AND REMOVE ALL UNUSED WIRE AND CONDUIT BACK TO NEAREST JUNCTION BOX AFTER DEMOLITION.

**KEYNOTES:** 

1. EXISTING POWER TO EXISTING AUTOMATIC DOOR. MAINTAIN EXISTING CIRCUIT TO EXISTING AUTOMATIC DOOR DURING DEMOLITION.

LEVEL 01 DEMOLITION PLAN - POWER | B6  
SCALE: 1/4" = 1'-0"

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

PLAN NOTES | B1



PROJECT NUMBER: CP220811

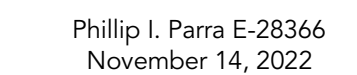
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LEVEL 01  
DEMOLITION PLAN -  
SYSTEMS

E121

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**SHEET NOTES:**

1. REFER TO SHEET E000 FOR GENERAL NOTES AND SYMBOLS.
2. DISCONNECT AND REMOVE EXISTING FIRE ALARM DEVICE SHOWN AS DEMOLISHED AND ALL ASSOCIATED WIRING AND CONDUIT. EXISTING FIRE ALARM SYSTEM TO REMAIN.
3. DISCONNECT AND REMOVE ALL UNUSED WIRE AND CONDUIT BACK TO NEAREST JUNCTION BOX AFTER DEMOLITION.

**KEYNOTES:**

1. DISCONNECT WIRELESS ACCESS POINT DEVICE AND SET ASIDE FOR DEMOLITION OF CEILING. WIRELESS ACCESS POINT DEVICE TO BE RELOCATED INTO SAME LOCATION IN NEW PLANS. ALL ASSOCIATED WIRE AND CONDUIT SHALL REMAIN.

A horizontal line represents a 1D lattice. Four vertical black bars are placed on the line at positions labeled 0', 2', 4', and 8' from left to right.

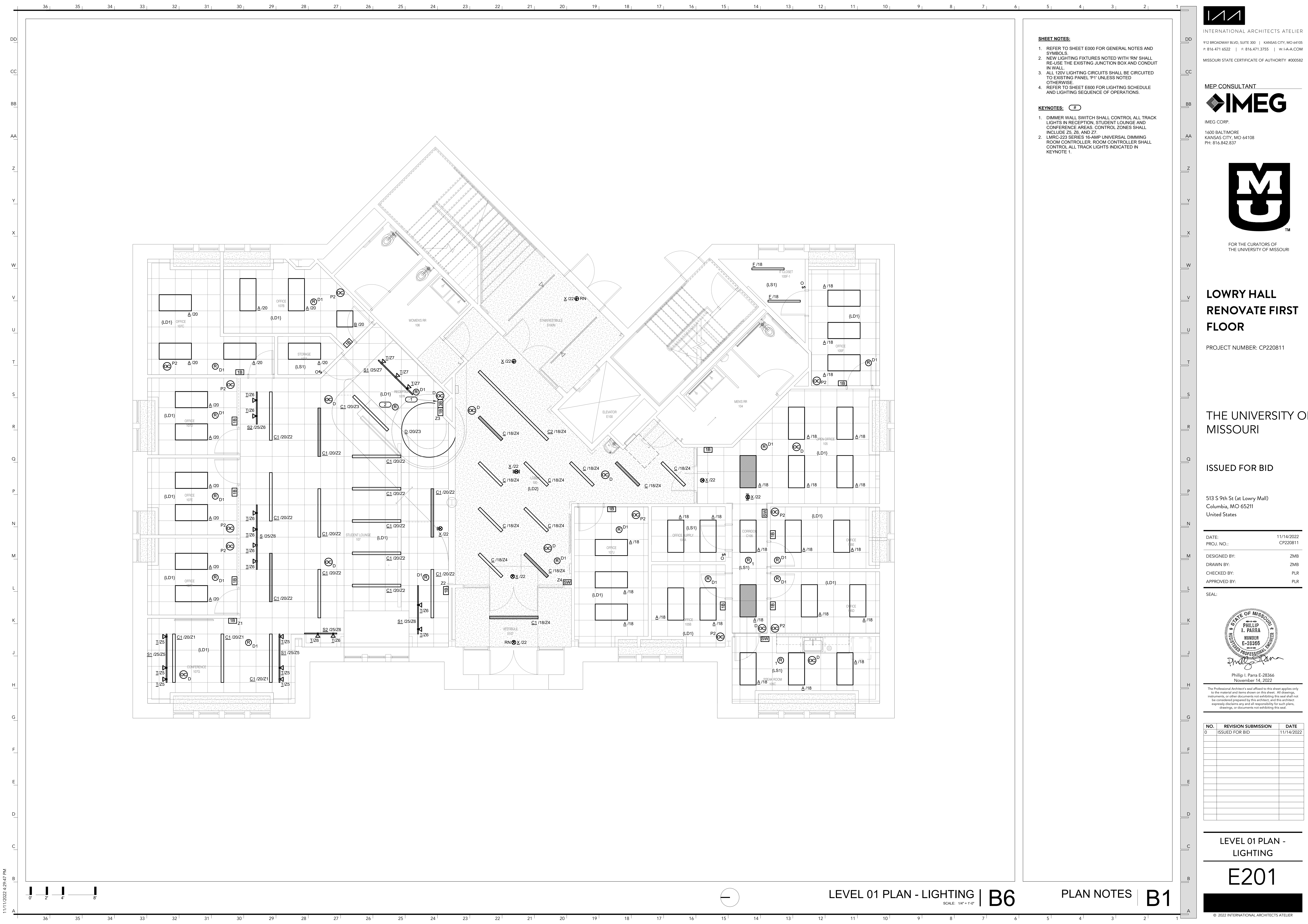


LEVEL 01 DEMOLITION PLAN - SYSTEMS | B6

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

PLAN NOTES | B1

# B1



**SHEET NOTES:**

1. REFER TO SHEET E000 FOR GENERAL NOTES AND SYMBOLS.
2. NEW LIGHTING FIXTURES NOTED WITH 'RN' SHALL RE-USE THE EXISTING JUNCTION BOX AND CONDUIT IN WALL.
3. ALL 120V LIGHTING CIRCUITS SHALL BE CIRCUITED TO EXISTING PANEL 'P1' UNLESS NOTED OTHERWISE.
4. REFER TO SHEET E000 FOR LIGHTING SCHEDULE AND LIGHTING SEQUENCE OF OPERATIONS.

**KEYNOTES:** #

1. DIMMER WALL SWITCH SHALL CONTROL ALL TRACK LIGHTS IN RECEPTION, STUDENT LOUNGE AND CONFERENCE AREAS. CONTROL ZONES SHALL INCLUDE Z5, Z6, AND Z7.
2. LMRC-223 SERIES 16-AMP UNIVERSAL DIMMING ROOM CONTROLLER. ROOM CONTROLLER SHALL CONTROL ALL TRACK LIGHTS INDICATED IN KEYNOTE 1.



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MISSOURI STATE CERTIFICATE OF AUTHORITY #000582

MEP CONSULTANT



IMEG CORP.

1600 BALTIMORE  
KANSAS CITY, MO 64108  
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FOR THE CURATORS OF  
THE UNIVERSITY OF MISSOURI

## LOWRY HALL RENOVATE FIRST FLOOR

PROJECT NUMBER: CP220811

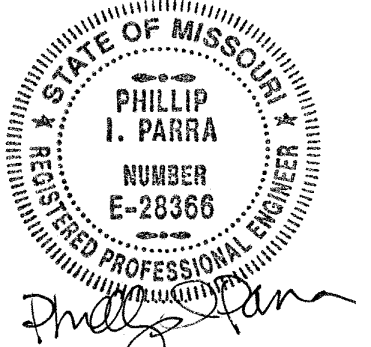
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### ISSUED FOR BID

513 S 9th St. (at Lowry Mall)  
Columbia, MO 65211  
United States

DATE:	11/14/2022
PROJ. NO.:	CP220811
DESIGNED BY:	ZMB
DRAWN BY:	ZMB
CHECKED BY:	PLR
APPROVED BY:	PLR

SEAL:



Phillip I. Parra E-28366  
November 14, 2022

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LEVEL 01 PLAN -  
LIGHTING

# E201

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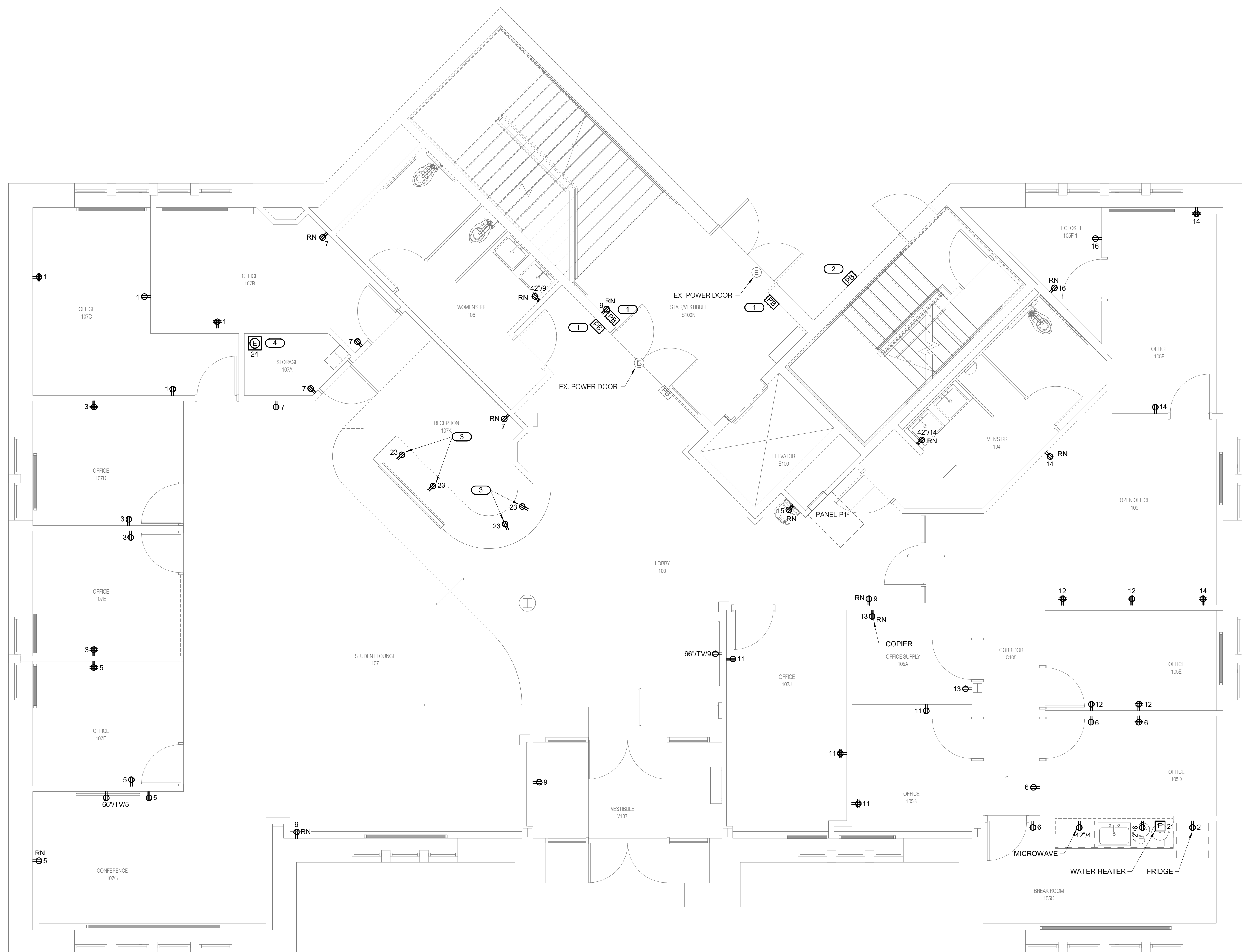


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LEVEL 01 PLAN -  
POWER

E211



**SHEET NOTES:**

1. REFER TO SHEET E000 FOR GENERAL NOTES AND SYMBOLS.
2. NEW POWER DEVICES NOTED WITH 'RN' SHALL FURNISH AND INSTALL NEW INDICATED DEVICE AND CIRCUIT INTO EXISTING JUNCTION BOX.
3. ALL 120V CIRCUITS SHALL BE CIRCUITED TO EXISTING PANEL 'P1' UNLESS NOTED OTHERWISE.

**KEYNOTES:** 

1. FURNISH AND INSTALL NEW PUSH BUTTON FOR EXISTING AUTOMATIC DOOR. TIE INTO EXISTING AUTOMATIC POWER DOOR CONTROLS. COORDINATE EXACT LOCATION WITH ARCHITECT'S PLANS.
2. FURNISH AND INSTALL NEW PUSH BUTTON FOR EXISTING AUTOMATIC DOOR SURFACE MOUNTED ON EXISTING BRICK WALL. TIE INTO EXISTING AUTOMATIC POWER DOOR CONTROLS.
3. COORDINATE EXACT LOCATION OF OUTDOOR PUSHBUTTON WITH ARCHITECT'S PLANS.
4. DEVICE TO BE MOUNTED IN ARCHITECTURAL CASEWORK. COORDINATE INSTALLATION WITH CASEWORK INSTALLER.
5. VENDOR TO PROVIDE 107A CLOSET CABINET. COORDINATE EXACT LOCATION IN STORAGE 107A CLOSET WITH MECHANICAL CONTRACTOR.

LEVEL 01 PLAN - POWER | B6  
SCALE: 1/4" = 1'-0"

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

PLAN NOTES | B1

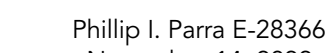


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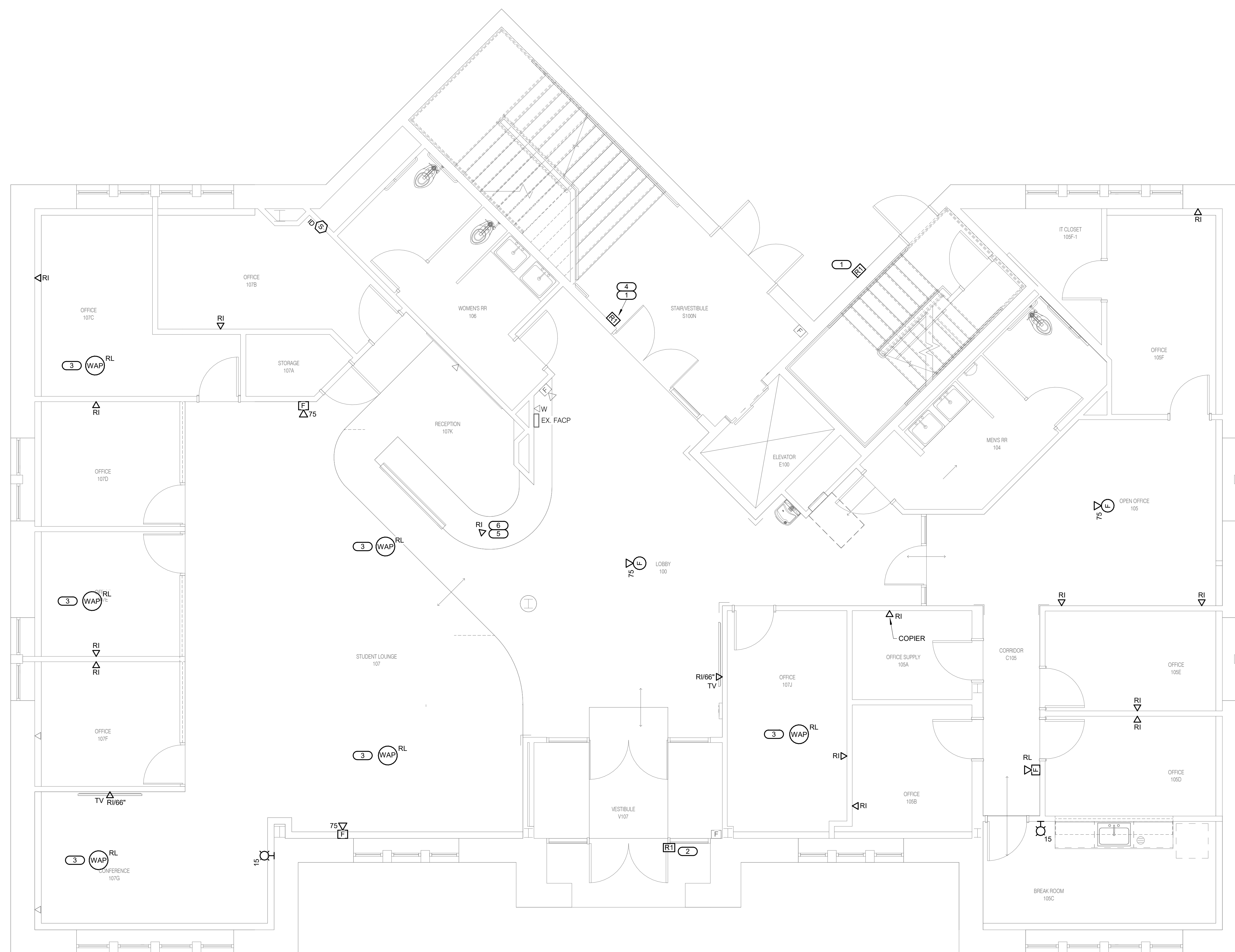
DATE:	11/14/2022
PROJ. NO.:	CP220811
DESIGNED BY:	ZMB
DRAWN BY:	ZMB
CHECKED BY:	PLR
APPROVED BY:	PLR
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## E221

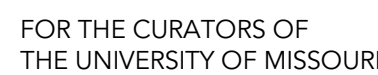


1. REFER TO SHEET E000 FOR GENERAL NOTES AND SYMBOLS.
2. NEW FIRE ALARM DEVICES SHALL MATCH EXISTING TYPE. TIE INTO EXISTING FIRE ALARM SYSTEM TO REMAIN. COORDINATE WORK WITH FIRE ALARM INSTALLER AND PROVIDER.
3. TO FURNISH AND INSTALL BACK BOX AND CONDUIT TO NEW INDICATED DATA DEVICES. E.C. SHALL PULL 2 OWNER PROVIDED CABLES TO EACH DATA DEVICE.
4. REFER TO CAD ACCESS DOOR DETAIL ON SHEET FOR MORE INFORMATION.
5. COORDINATE EXACT LOCATIONS OF CARD READER DEVICES WITH ARCHITECT'S PLANS.

1. FURNISH AND INSTALL NEW CARD READER FOR EXISTING AUTOMATIC DOOR. CARD READER SHALL INTERFACE WITH AUTOMATIC DOOR OPERATOR AS REQUIRED.
2. FURNISH AND INSTALL NEW CARD READER FOR EXISTING DOOR. MAKE CONNECTIONS TO NEW DOOR HARDWARE AS NEEDED.
3. FURNISH AND INSTALL NEW ACCESS POINT. INSTALL IN SAME LOCATION ON NEW CEILING.
4. FURNISH AND INSTALL NEW CARD READER IN SAME LOCATION FOR EXISTING DOOR ON 2ND FLOOR AND 3RD FLOOR. MAKE CONNECTIONS TO NEW DOOR HARDWARE AS NEEDED.
5. DEVICE ROUGH-IN TO BE INSTALLED IN STRUCTURAL CEMENT. PROVIDE COORDINATE INSTALLATION WITH CASEWORK INSTALLATION. INCLUDE EMPTY 3/4" CONDUIT FROM DEVICE WITHIN 18" OF WORK TO WALL OR CEILING SPACE.
6. INDICATED DEVICE SHALL HAVE 4 DATA PORTS.

LEVEL 01 PLAN - SYSTEMS | B6  
SCALE: 1/4" = 1'-0"

PLAN NOTES | B1



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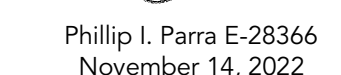
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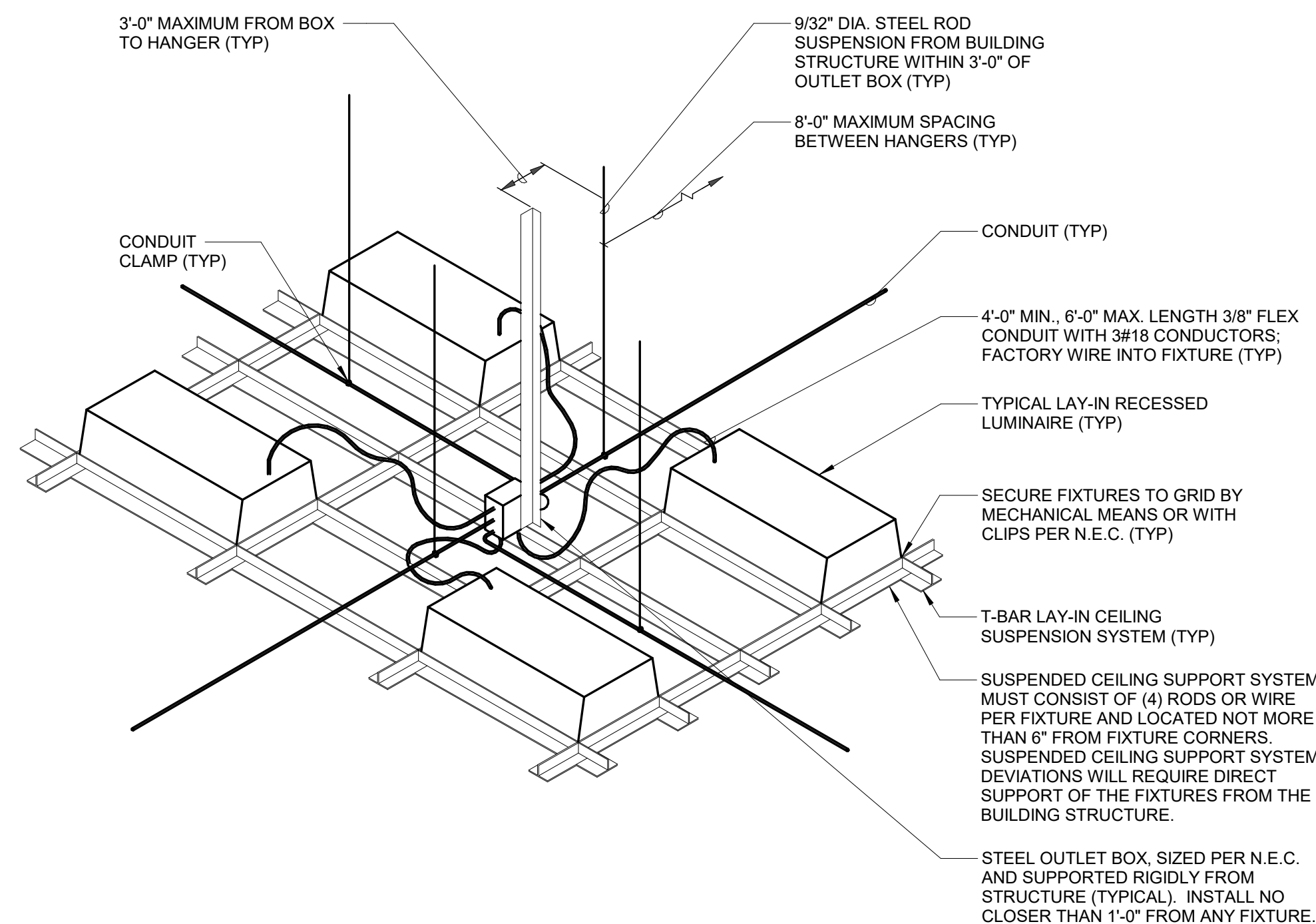
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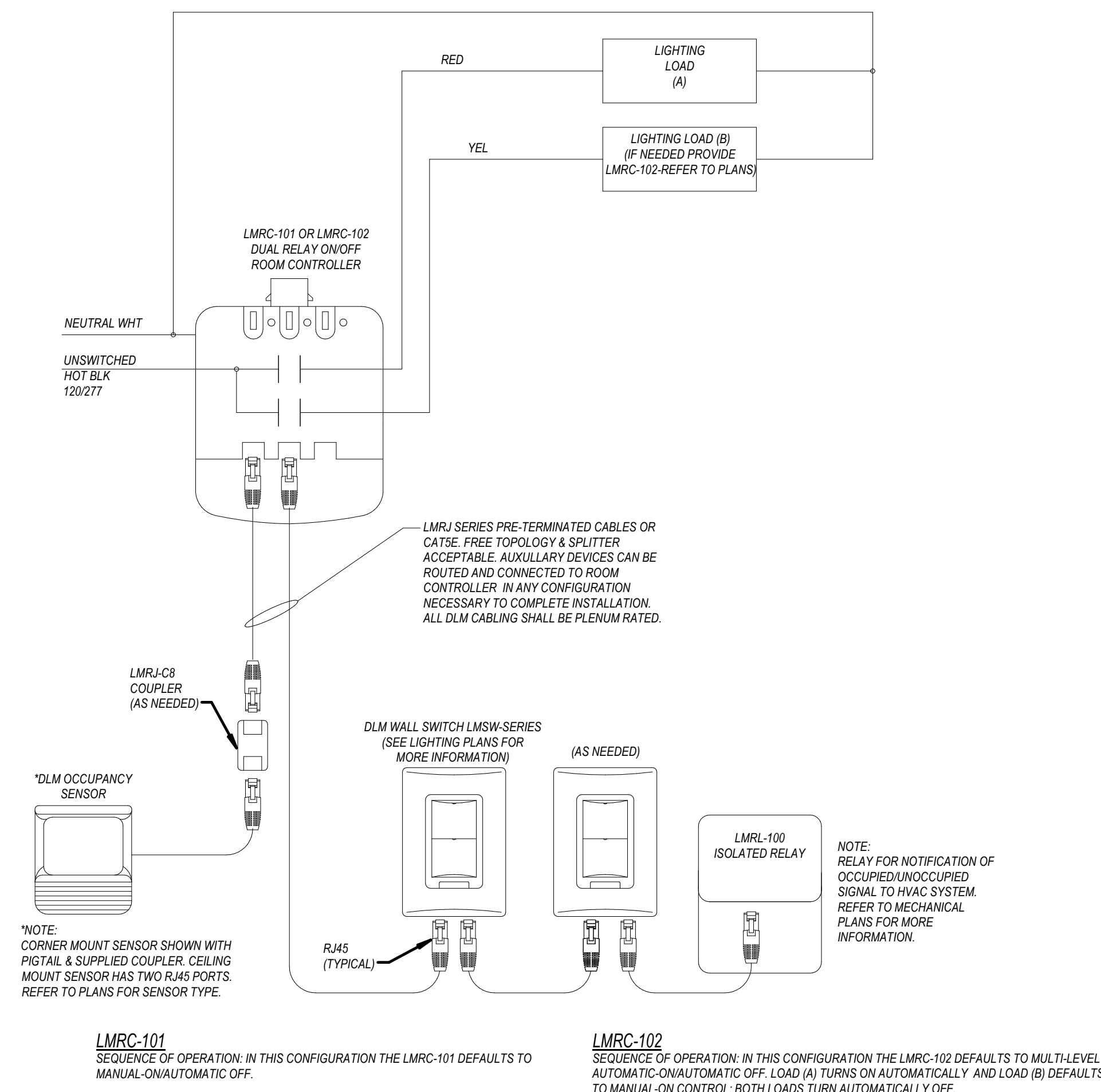
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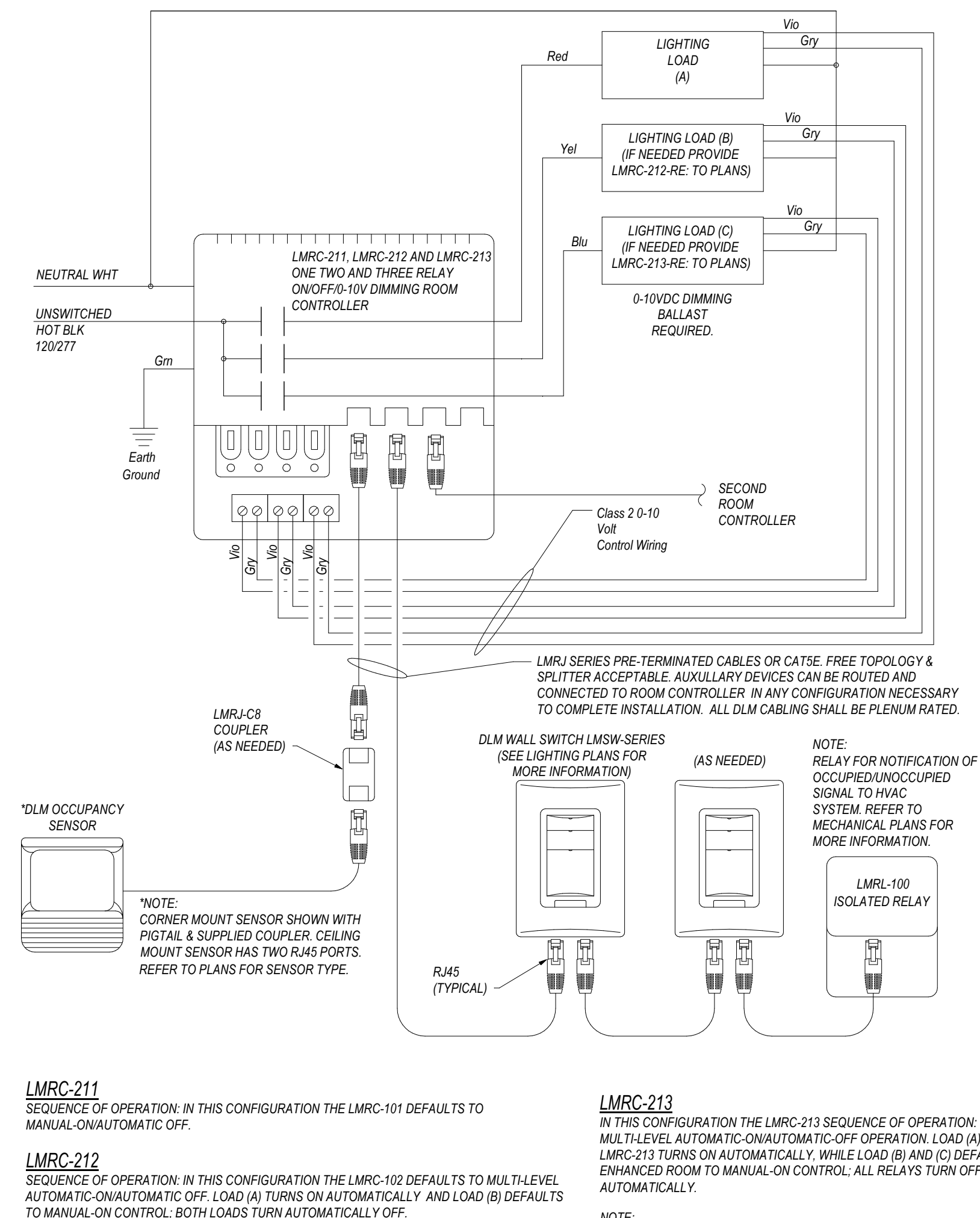
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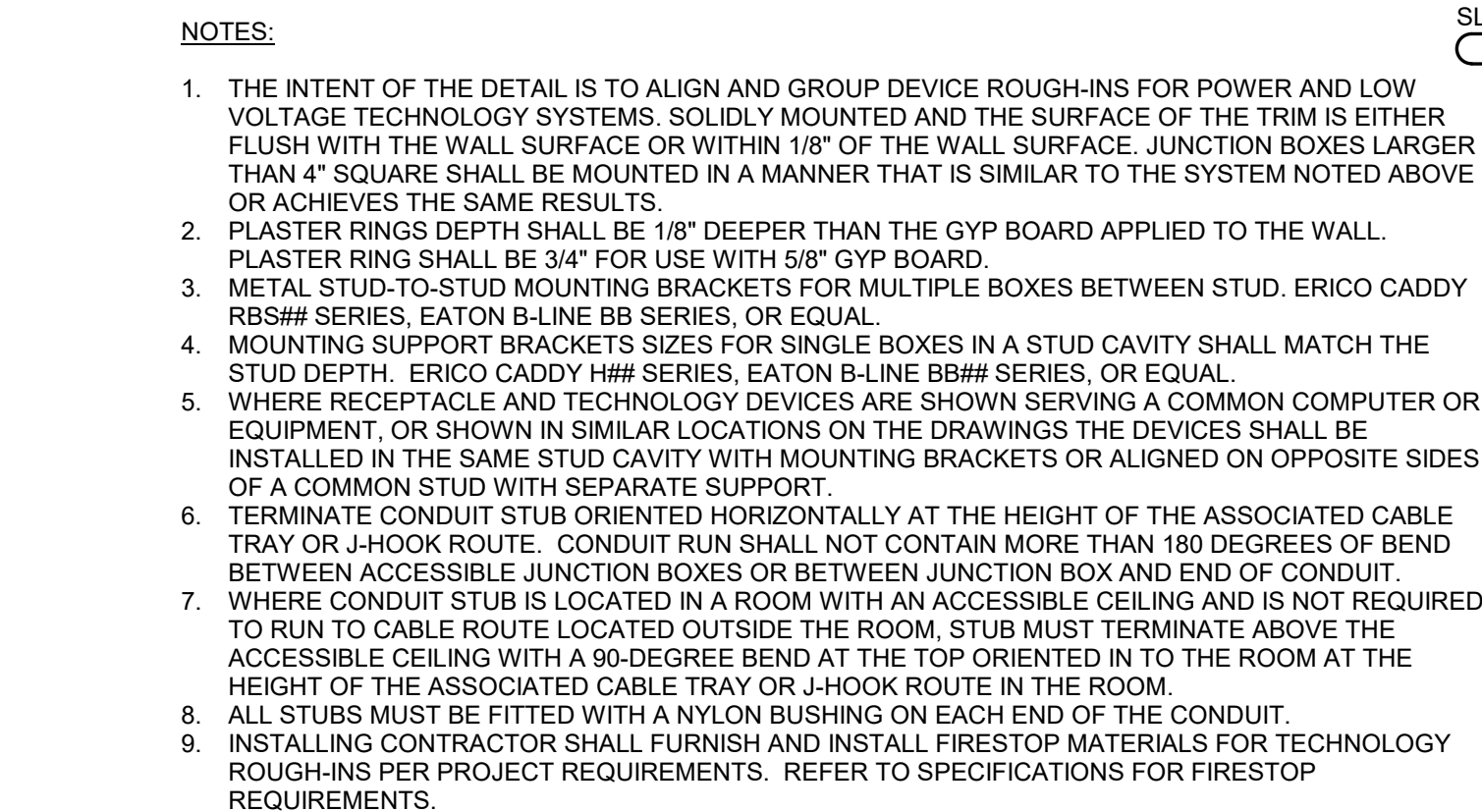
## 5 RECESSED LUMINAIRE DETAIL (GRID CLIPS)



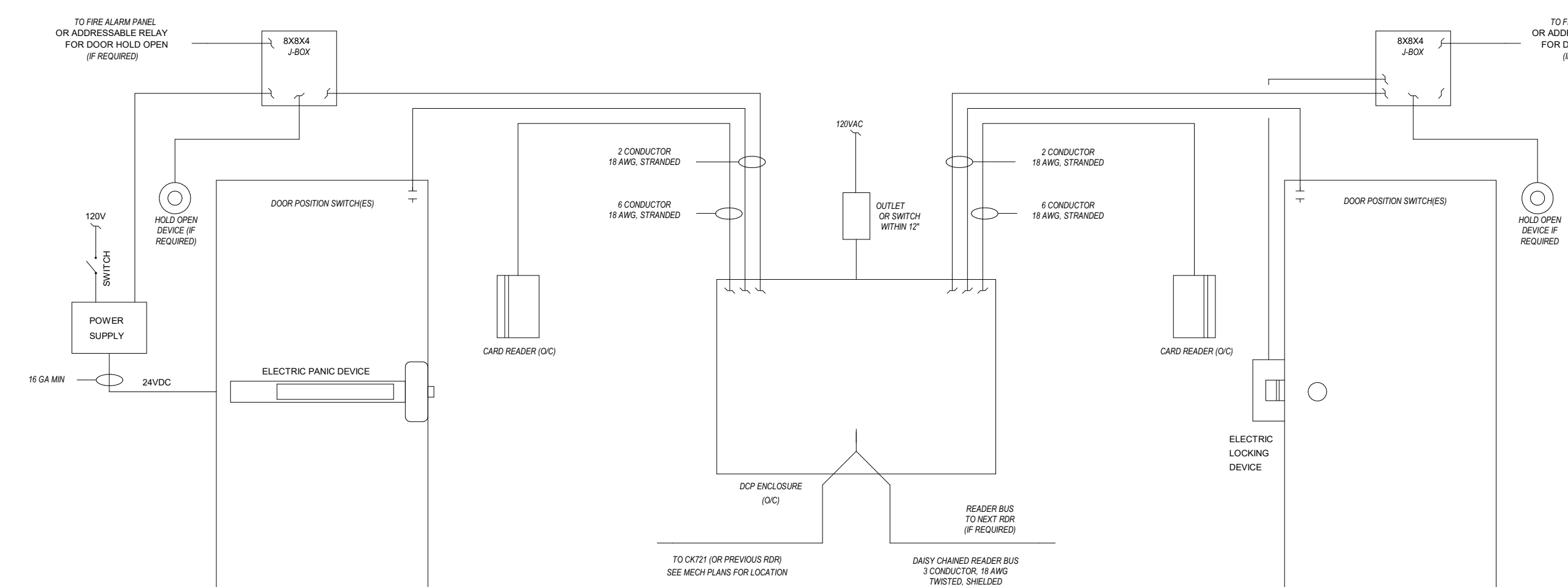
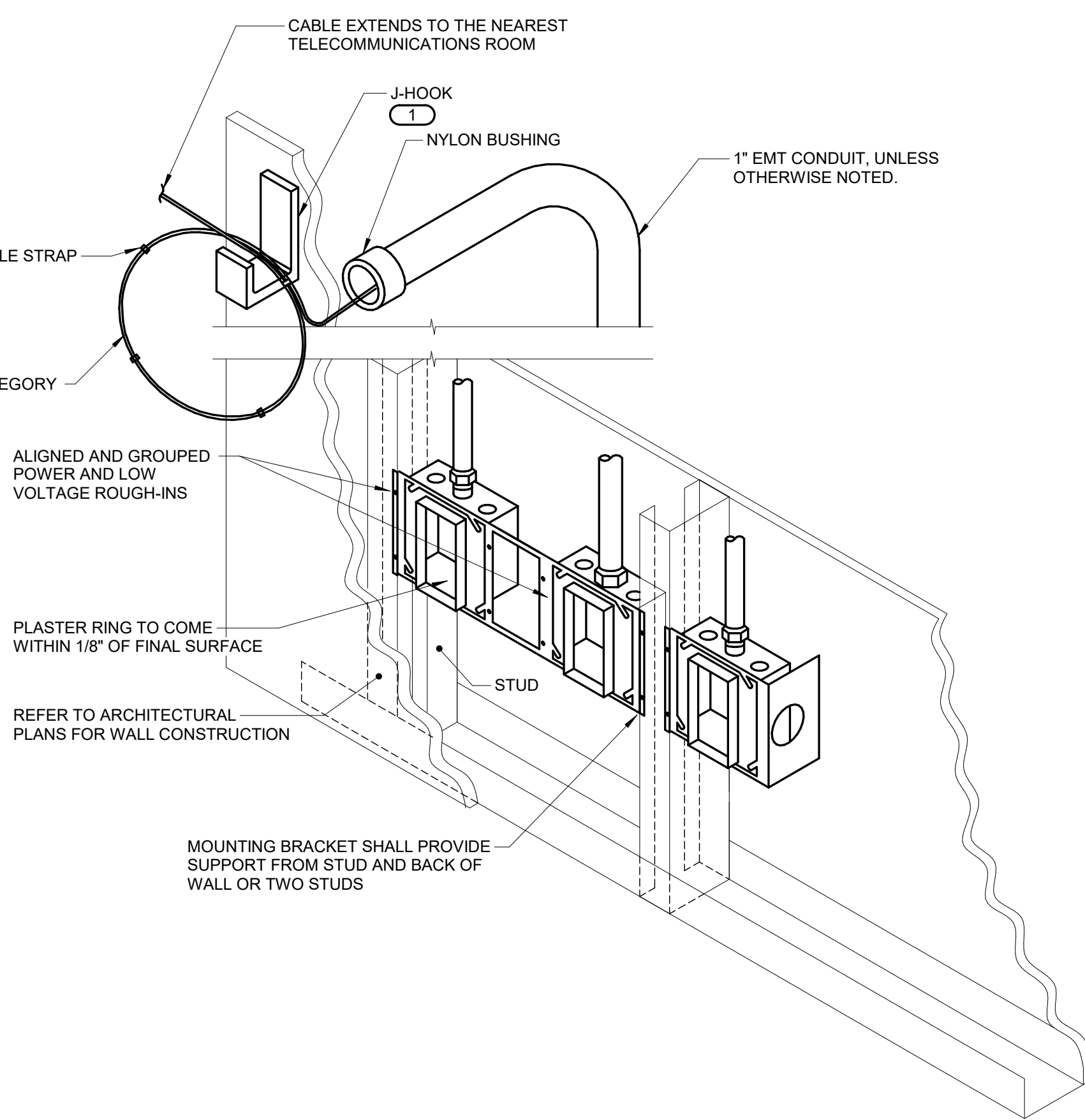
## 4 DETAIL OF LMRC-100 SERIES ROOM CONTROLLER CABLING



**3** DETAIL OF LMRC-211, LMRC-212  
AND LMRC-213 ROOM CONTROLLER CABLING  
NO SCALE



## 2 TECHNOLOGY ROUGH-IN TO J-HOOK DETAIL



**1 CARD READER DETAIL**  
NO SCALE

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REFER TO SPECIFICATION SECTIONS LED LIGHTING 26 51 19 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.  
INTERIOR CORRELATED COLOR TEMPERATURE 3500K, COLOR RENDERING INDEX (CRI) AT OR ABOVE 80, UNLESS NOTED OTHERWISE

NOTES:

1. LIGHT FIXTURES ON PLANS SHOWN AS SHADED SHALL HAVE AN INTEGRAL EMERGENCY BATTERY PACK. PROVIDE A BATTERY INVERTER AS NEEDED.

NOTES:

(1) ##H DENOTES THE LIGHTING SEQUENCE OF OPERATIONS FOR THIS SPACE.

(2) ##H PUSH BUTTON REFERS TO THE LIGHTING CONTROL STATION SHALL BE CAPABLE OF (RAISE/LOWER AND) SWITCHING ON/OFF FOR MULTIPLE SCENES AS INDICATED ON SHEETS AND THE LIGHTING SEQUENCE OF OPERATIONS (##H). COORDINATE QUANTITIES OF BUTTONS FOR CONTROL STATIONS WITH LIGHTING CONTROL MANUFACTURER.

(3) ##L DENOTES LIGHTING CONTROL PROVIDER SEPARATE CONTROL OF EACH CONTROLLED ZONE. LUMINAIRES ASSOCIATED WITH THE SAME ZONE SHALL OPERATE TOGETHER WITHIN THE SAME PROGRAMMED SCENE.

(4) A = SWITCH DESIGNATION FOR LIGHTING CONTROL.

(5) VERIFY AND COORDINATE ALL TIME CLOCK SETTINGS WITH OWNER PRIOR TO FINAL PROGRAMMING.

(6) VERIFY AND COORDINATE ALL PUSH BUTTON WALL DEVICES AND QUANTITIES OF INDIVIDUAL BUTTONS WITH SCENES AND ZONES PER LOCATION.

(7) VERIFY AND COORDINATE ALL PUSH BUTTON QUANTITIES AND SCENE NAMES WITH OWNER PRIOR TO SUBMITTING ENGRAVING TEMPLATE TO MANUFACTURER.

	LIGHTING SWITCHED
(L#1) Sequence: Dimmed lights are controlled in this space. ON: The lights turn on manually via lighting control station. ADJUST: The dimming luminaires are raised/lowered using a push button wall controller(s). OFF: The lights turn off manually via lighting control station, or automatically shut off, via occupancy sensor, once the space has been unoccupied for 20 minutes.	
(L#2) Sequence: Dimmed lights are controlled in this space. ON: The lights shall turn on automatically no greater than 50% illumination or manually to 100% via lighting control station. ADJUST: The dimming luminaires are raised/lowered using a push button wall controller(s). OFF: The lights shall raise output to 50% when unoccupied for 20 minutes and they shall turn off completely, via occupancy sensor, once the space has been unoccupied for 30 minutes or turn off manually via lighting control station.	
(L#3) Sequence: Switched lights are controlled in this space. ON: The lights turn on manually via lighting control station. OFF: After the lighting space has been vacant for 20 minutes, the lights will automatically turn off.	