The American with Disabilities Act (ADA) provides that alterations to a facility must be made in such a manner and judgement to interpret applicable ADA regulations as they apply to the project. The Design Professional,  

2. ALL BLOCKING TO BE METAL STRAP, NO WOOD PERMITTED. 
3. SIDE MTL STUDS @ 16" O.C. TYP. 
4. 5/8" GYP. BD. EA REFER TO PART. 
5. FIRE RESISTANCE DIRECTORIES, TYPICAL. REFERENCED. ALL REFERENCES ARE TO LATEST EDITION OF GYPSUM ASSOCIATION (GA) OR AND JOINT COMPOUND. 
6. PARTITIONS TO BE BUILT IN ACCORDANCE WITH PARTITION SCHEDULE AND DESIGN 

WALL 

D = EXTEND GYP. BD. FINISH TO 6" ABOVE FIN. CLG. 
I = WALL INSULATION: PROVIDE SOUND BATT INSULATION 
S = 1 HOUR RATED PARTITION PER U.L. NO. AND ASSEMBLY SCHED. 
0 = 0 HOUR RATED PARTITION 
H = 2 HOUR SMOKE RATED PARTITION PER U.L. NO. AND ASSEMBLY SCHED.

CERTIFICATIONS

I hereby certify that Sheets:

E300 ELECTRICAL SCHEDULES
ED100 SECOND FLOOR - ELECTRICAL - DEMOLITION WORK
FP101 FIRE PROTECTION FLOOR PLANS
M100 SECOND FLOOR - MECHANICAL - NEW WORK
M500 SECOND FLOOR - MECHANICAL - DEMOLITION WORK
M700 TEMPERTATURE CONTROLS
PFP000 PLUMBING & FIRE PROTECTION SYMBOLS & ABBREVIATIONS
PFP300 PLUMBING & FIRE PROTECTION DETAILS & SCHEDULES
E100 SECOND FLOOR - ELECTRICAL - NEW WORK - OVERALL PLAN
G101 2ND FLOOR CODE FOOTPRINT & IC PLAN
M000, MD100, M100, M500, M700, PFP000, P100, FP101, and PFP300

MECHANICAL, PLUMBING, MEDICAL GAS, & FIRE PROTECTION STATEMENT: 

GENERAL NOTES

1. THE NOTES AND SYMBOLS SET DOWN ON THESE DRAWINGS ARE FOR THE GUIDANCE OF ALL TRADES INVOLVED IN THE PERFORMANCE OF THIS WORK. 
2. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL TRADES AND THEIR RESPECTIVE TRADE SPECIFICATIONS AND DRAWINGS. 
3. UNLESS NOTED OTHERWISE, ALL MATERIALS AND WORK SHOWN ARE TO BE CONSIDERED REQUIRED IN ANY WAY.

08.31.2020
PRIOR TO DEMOLITION OF EXISTING AHU-3 SUPPLY MAIN AND INSTALLATION OF NEW DUCTWORK FIELD MEASURE AND FABRICATE ALL REQUIRED NEW DUCT FITTINGS TO MINIMIZE AHU-3 DOWNTIME. COORDINATE SYSTEM SHUTDOWN WITH OWNER'S REPRESENTATIVE.
Prior to demolition of existing AHU-3 supply main and installation of new ductwork field measure and fabricate all required new duct fittings to minimize AHU-3 downtime. Coordinate system shutdown with owner's representative.
COLUMBIA UTILIZES JOHNSON CONTROLS EQUIPMENT FOR THEIR CAMPUS ENERGY MANAGEMENT CONTROL SYSTEM (EMCS). NEW DDC.

LOW VOLTAGE WIRE SHALL BE 22 AWG, PLENUM RATED, TWISTED SHIELDED, 4 CONDUCTOR.

VMA TERMINAL INCLUDES CONSTANT VOLUME (CV) UNITS & VARIABLE AIR VOLUME (VAV) UNITS. UNLESS OTHERWISE NOTED, ALL CONTROL WORK SHALL BE BY CONTRACTOR.

VAV SUPPLY TEMP SENSOR 1000 OHM PLATINUM RTD LOCATED APPROX. 8 FT. FROM VAV BOX DISCHARGE. PROVIDED, SHALL BE MONITORED AND TRANSMIT A SIGNAL TO THE VAV TERMINAL UNIT WITHIN THAT SPACE. ALL SENSORS SHALL BE CONNECTED TO ALL OCC SENSORS AS WORK OF DIVISION 23. A CONTROL SIGNAL SHALL BE RELAYED TO THE VAV INSTALLATION OF OCC SENSOR IS WORK OF DIVISION 26, SEE E.

CASING, DESCRIBED AS 22 FC COMMUNICATION BUS WIRE SHALL BE 22 AWG, PLENUM RATED, TWISTED SHIELDED, 3 CONDUCTOR, WITH BLUE OUTER CASING, CONNECTED AS 22 TEK, OR APPROVED EQUIVALENT.

NETWORK SENSOR WILL BE FURNISHED BY OWNER & INSTALLED BY CONTRACTOR. NETWORK SENSOR WILL BE JCI NS SERIES.

CONTROLLER WILL BE FURNISHED BY OWNER. CONTROLLER WILL BE JCI MODEL MS-16XX SERIES. PROGRAMMING WILL BE DONE BY OWNER.

CONTROLLER MUST HAVE A MINIMUM OF 18 INCHES OF ACCESSIBLE CLEARANCE.

AIR FLOW MEASURING DEVICE PROVIDED WITH FLOW CONTROL VALVE.

LOW VOLTAGE WIRE BY DIVISION 23. EXTEND POWER FROM AIR TERMINAL UNIT TAB 2E-F fuse located within 2 feet of VMA CONTROLLER.

CONTROLLER WILL BE FURNISHED BY OWNER. CONTROLLER WILL BE JCI MODEL MS-16XX SERIES. PROGRAMMING WILL BE DONE BY OWNER.

FIRST FLOOR

SECOND FLOOR

NOTES:
1. Type, location, numbering of damper actuators shall be coordinated with volume control units. Valves shall be coordinated.
2. All sensors, controls, safety devices shall be wired to controller.
3. See previous VMA controller.
4. RPM's to be address 20 and 21. Rearm all identified axes of control.
5. See attached building plan sheets for final locations. A control circuit will be built diagram of network bus routing per spec section 23 0900.

EXHAUST VALVE CONTROL DIAGRAM

KEYED NOTES:
- Controller may be furnished by owner. Controller will be 22 ga rated and 4 conductor.
- All communication and bus wiring shall be field wired. Connections shall be identified with conduit or tubing as required. All work must be completed within 2 ft. of VMA controller.
- FC bus must have completed in closed circuit battery when disconnected.
- Field wiring must be done in the field.
- See new VMA controller.
- Above list of items to be addressed in the network bus wiring.
1. Existing plumbing to be connected to new medical vacuum and oxygen at this point.
2. Existing sink to be removed.
3. Existing rough piping shall be removed from the existing boom.
4. New medical vacuum and oxygen shall remain for connection to new sink.
5. Existing zone valve box currently serves existing mains.
6. Existing zone valve box and the existing zone valve box (C2027) will be removed from the existing room.
7. Hose reels are to be coordinated across all outlets: 2 medical vacuum, 2 oxygen, 1 NO2, 1 currently uses Chemetron 82 series ceiling in ceiling grid.
8. New sink to be provided and connected to respective mains.

**PLUMBING FLOOR PLANS**

**Project Title:** CCA | UPDATE PROCEDURE ROOM C2025

**University of Missouri, Columbia, Missouri**

**BID SET**

**Issue Date:** 08.31.2020

**ROSS & BARUZZINI, INC.**

**St. Louis, MO 63105**

**825 Maryland Avenue | Suite 300**

**Missouri Certificate of Authority #000148**

**Pe-2018000203**

**CCA | UPDATE PROCEDURE ROOM C2025**

**PLUMBING SECOND FLOOR DEMO PLAN**

**PLUMBING SECOND FLOOR NEW WORK PLAN**

**2ND FLOOR KEYPLAN**

**ROOM C2023**

**ROOM C2024**

**ROOM C2025**

**ROOM C2026**

**ROOM C2027**

**PROJECT TEAM:**

**Tori Janelle Gillespie**

**Drawn by:**

**Plumbing Office:**

**Certification:**

**MO Certificate of Authority Number**

**913.232.2123**

**University of Missouri, Columbia, Missouri**

**8/31/20**
A. Fire sprinkler system outages shall be limited to the use of system for fire protection.
B. Fire protection for the final use of the building.
C. Construct an elevation for locations with equipment or devices within all boundaries.
D. Fire protection areas are not allowed for fire protection.
E. Fire protection system drawings to be provided signed and sealed by a licensed fire protection engineer.

**GENERAL SHEET NOTES**

**PROJECT TITLE:**
University of Missouri, Columbia, Missouri

**PROJECT TAG:**
FP101

**DRAWN BY:**
ROSS & BARUZZINI, INC.
314.918.8383
6 South Old Orchard | St. Louis, MO 63119

**SPELLMAN BRADY & COMPANY**
St. Louis, MO 63105
825 Maryland Avenue | Suite 300

**MO CERTIFICATE OF AUTHORITY #000148**

**ISSUE DATE:**
08.31.2020

**DRAWN BY:**

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**KEYED NOTES**

1. Existing concealed sprinkler heads to be removed.
2. Area to be considered light hazard with a sprinkler discharge density of 0.10 GPM/SQ.FT. for the most hydraulically remote 1500 SQ.FT. and a hose stream of 100 GPM. Contractor shall provide a complete code compliant automatic wet pipe system. Sprinkler spacing shall be based on listed value and distances established by NFPA and FM. Fully concealed sprinkler heads shall be used.

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**DRAWN BY:**

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**DRAWN BY:**

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**DRAWN BY:**

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ELECTRICAL GENERAL NOTES

1. WIRING AND ELECTRICAL MOUNTING DEVICES MUST BE LISTED TO THE NATIONAL ELECTRICAL CODE (NEC) AND UL LISTED.

2. ELECTRICAL MOUNTING DEVICES MOUNTED ON THE WALL OR CEILING MUST BE HANGED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.

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GENERAL DEMOLITION NOTES

1. GENERAL REMOVAL OF EXISTING ELECTRICAL SYSTEMS AND MOUNTING DEVICES MOUNTED ON THE WALL OR CEILING MUST BE HANGED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.

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EQUIPMENT, FIXTURES AND DEVICES

1. EQUIPMENT, FIXTURES AND DEVICES MUST BE HANGED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.

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12. EQUIPMENT, FIXTURES AND DEVICES MUST BE HANGED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
A. In areas where demolition work is not scheduled, disconnect, remove and salvage existing ceiling mounted devices (luminaires, etc.) as required to complete above ceiling work for all trades. Upon completion of construction, reinstall existing ceiling mounted devices in original locations. Devices shall operate as they did prior to construction.

B. In areas adjacent to demolition work being conducted, all electrical systems are to remain fully operational during construction. Contractor to verify implications of demolition prior to commencement of work. Schedule all outages required with owner's representative.

C. Refer to Sheet E100 Overall Plan for electrical panel and telecommunications room locations.
GENERAL SHEET NOTES

1. Enter all work on areas indicated.
2. Observe all plans and specifications, as well as additional instructions.
3. Provide necessary components (hangers, fittings, etc.) for installation.
4. Utilize existing 20A/1P spare circuit breaker for wiring modifications.
5. Coordinate all rough wiring to ensure proper identification of loads served.
6. Ceiling (vendor provided). Circuiting through the ceiling is required.
7. Recessed lights are indicated. Provide new circuit breaker within existing panel.
8. Provide 120V electrical connections utilizing pressure controller system, including NEMA 1 enclosure.
9. Provide rough wiring to indicate raceway from panel to new receptacles.
10. Provide label on coverplate to read "raceway from panel to new receptacle."
11. Provide new GFCI type receptacle and extend existing circuiting.
12. Provide new 24VAC transformers. Install within existing panel.
13. Provide fire-rated pathway above ceiling for low voltage cable.
14. Firestopping is required to seal new fire wall penetrations.
15. Provide addressable fire/Smoke damper upon detection of smoke. Seal duct above ZVB panel 'L2A'. Refer to Sheet E100 for panel location.
16. Provide power connection for FSD relay to actuate smoke damper.
17. Provide duct smoke detector within 5' of fire/Smoke damper for actuation of smoke damper.
18. Extend existing normal power circuit salvaged during construction to new luminaires.
19. Extend existing critical power circuit salvaged during construction to new luminaires.
20. Utilize existing 20A/1P spare circuit breaker for wiring modifications.
21. Refer to architectural elevations for exact locations.
22. Refer to Sheet E100 for panel location.
### LUMINAIRE SCHEDULE

#### EQIMENT

**SCHEDULE OF LIGHTING FIXTURES**

<table>
<thead>
<tr>
<th>Cabinet Type</th>
<th>Location</th>
<th>Model</th>
<th>Part No.</th>
<th>Manufacturer</th>
<th>Notes</th>
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#### INSTALLATION

- All luminaires are intended for use in commercial applications and should be installed in accordance with the manufacturer's instructions.
- All luminaires shall be installed in accordance with the National Electrical Code (NEC) and local building codes.
- All luminaires shall be installed in accordance with the CCA Lighting Schedule.
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#### LUMINAIRE SCHEDULE

<table>
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<th>MODEL</th>
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<th>MANUFACTURER</th>
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#### CABINET LENGTHS

- CABINET LENGTH
- CABINET WIDTH
- CABINET HEIGHT
- CABINET DEPTH

#### LUMINAIRE DATA

- LUMINAIRE TYPE
- LUMINAIRE MODEL
- LUMINAIRE PART NUMBER
- MANUFACTURER
- NOTES

#### ELECTRICAL SCHEDULE

- ELECTRICAL PANELS
- ELECTRICAL PANELS
- ELECTRICAL PANELS

#### PROJECT INFORMATION

- PROJECT TITLE
- PROJECT NUMBER
- PROJECT LOCATION
- PROJECT TEAM

#### CONTRACTOR INFORMATION

- CONTRACTOR NAME
- CONTRACTOR ADDRESS
- CONTRACTOR PHONE NUMBER
- CONTRACTOR FAX NUMBER
- CONTRACTOR EMAIL

#### DRAWING INFORMATION

- DRAWN BY
- DRAWN DATE
- ISSUE DATE

#### PROJECT INFORMATION

- PROJECT NUMBER
- PROJECT LOCATION
- PROJECT TEAM

#### ISSUE INFORMATION

- ISSUE DATE
- ISSUE NUMBER

#### BID SET

- BID SET DATE
- BID SET NUMBER

#### UNIVERSITY OF MISSOURI

- UNIVERSITY OF MISSOURI

#### UNIVERSITY OF MISSOURI

- UNIVERSITY OF MISSOURI