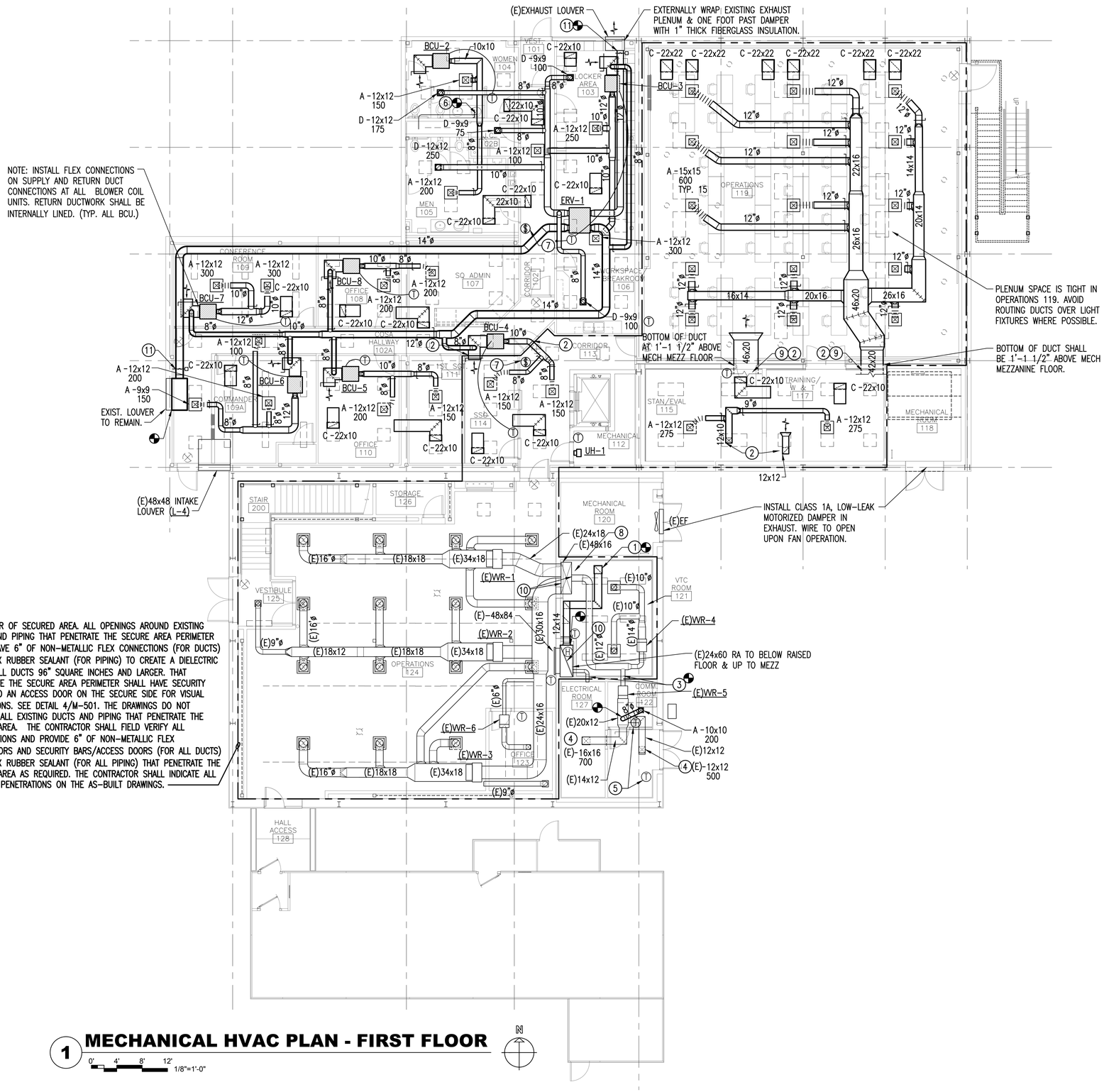

1 **MECHANICAL HVAC PLAN - FIRST FLOOR**

0' 4' 8' 12'
1/8"=1'-0"

NOTE: TEMPERATURE CONTROLS CONTRACTOR SHALL UPGRADE ALL EXISTING CONTROLS ON THE OLD SYSTEM TO MATCH THE NEW CONTROLS BEING INSTALLED. IT IS THE RESPONSIBILITY OF THE TCC TO DETERMINE ALL REQUIREMENTS AND UPDATE THE OBSOLETE CONTROLS AS REQUIRED.

NOTE:
CLIN 1 – NO MECHANICAL WORK THIS SHEET.
CLIN 2 – ALL MECHANICAL WORK THIS SHEET.

PLAN NOTES:

1. RELOCATED (E)14X14 RA GRILLE. ROUTE NEW 12x14 DUCT TO GRILLE WITH A MINIMUM OF FOUR ELBOWS, AND DUCT LINER (FOR ACOUSTICAL PURPOSES).
2. INSTALL SECURITY BARS IN WALL/FLOOR PENETRATION WITH AN ACCESS DOOR ON SECURE SIDE OF PERIMETER FOR VISUAL INSPECTIONS, PER ICS 705 REQUIREMENTS. INSTALL 6" NON-METALLIC FLEXIBLE CONNECTION IN DUCTWORK ON THE SECURE SIDE OF THE PERIMETER WITHIN 6" OF THE WALL/FLOOR, PER ICS-705 REQUIREMENTS. SEE 4/M-501.
3. PENETRATION HAS EXISTING SECURITY BARS. INSTALL 6" NON-METALLIC FLEXIBLE CONNECTION WITHIN 6" OF THE WALL ON THE SECURE SIDE OF THE WALL, PER ICS-705 REQUIREMENTS.
4. BALANCE EXISTING SUPPLY AIR DIFFUSER TO INDICATED CFM. (E)VWR-5 TO MAINTAIN 1400 CFM TOTAL FLOW.
5. INSTALL NEW THERMOSTAT IN COMMUNICATIONS ROOM. (E)VWR-5 TO BE CONTROLLED BY AVERAGE OF BOTH NEW AND EXISTING THERMOSTATS. SEE TEMPERATURE CONTROLS (MI102) FOR MORE INFORMATION.
6. CONNECT EXISTING BRANCH DUCTWORK SERVING CHASE TO NEW 10x10 DUCT. INSTALL BALANCING DAMPER AND BALANCE TO 50 CFM.
7. EMERGENCY HVAC SHUT-DOWN SWITCH.
8. STRUCTURE IN THIS AREA IS UNDERGOING MODIFICATION. VERIFY EXISTING DUCTWORK WILL COORDINATE WITH STRUCTURAL MODIFICATIONS. BRING DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT AS SOON AS POSSIBLE.
9. DUCTS CONTINUE ON MH102 AT MEZZANINE LEVEL. COORDINATE DUCTS WITH STRUCTURAL ELEMENTS (BEAMS AND CROSS BRACING) AND FIRST FLOOR CEILING.
10. INSTALL 6" NON-METALLIC FLEXIBLE CONNECTION WITHIN 6" OF THE WALL ON THE SECURE SIDE OF THE WALL, PER ICS-705 REQUIREMENTS.
11. CLASS 1A, LOW-LEAK MOTORIZED DAMPER.

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DATE: JANUARY 2019

PROJECT NAME:
KANG REPAIR BUILDING 44 FOR CACS

McConnell AFB
PRQE 072247

Project No.
12094.020

Revisions:

Chief Designer: CWW	
Drawn by: MHN	Check by: CWW
Date: APR. 28, 2017	Scale: AS NOTED
Sheet Name: MECHANICAL HVAC PLAN - FIRST FLOOR	
Sheet: MH101	
Sheet No. 36 OF 66	

RECORD DRAWINGS

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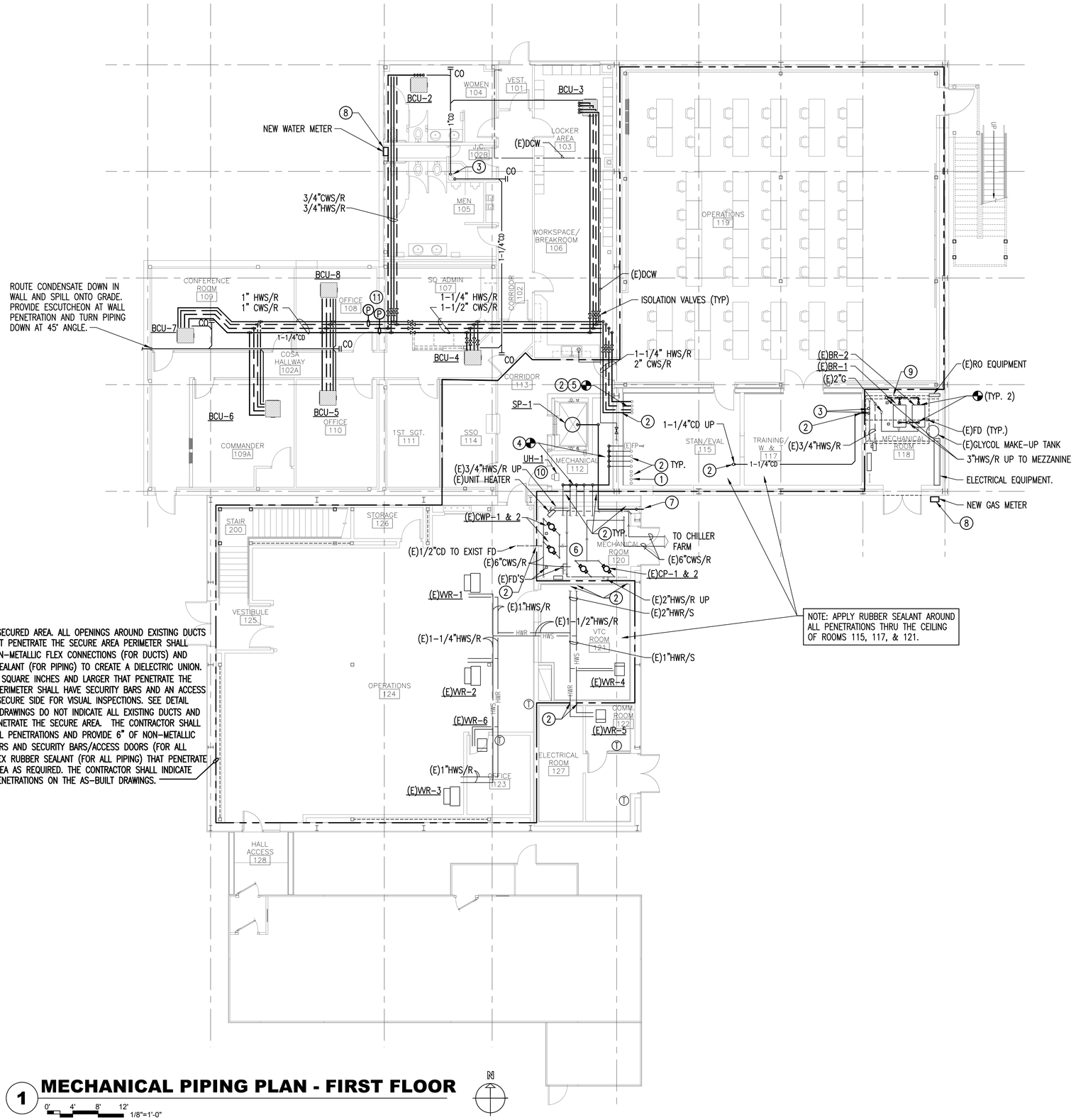

1 MECHANICAL PIPING PLAN - FIRST FLOOR

0' 4' 8' 12' 1/8"=1'-0"

N

NOTE: TEMPERATURE CONTROLS CONTRACTOR SHALL UPGRADE ALL EXISTING CONTROLS ON THE OLD SYSTEM TO MATCH THE NEW CONTROLS BEING INSTALLED. IT IS THE RESPONSIBILITY OF THE TCC TO DETERMINE ALL REQUIREMENTS AND UPDATE THE OBSOLETE CONTROLS AS REQUIRED.

NOTE:
CLIN 1 – NO MECHANICAL WORK THIS SHEET.
CLIN 2 – ALL MECHANICAL WORK THIS SHEET.

PLAN NOTES:

1. FLOOR PATCHED WHERE ABANDONED PIPING WAS REMOVED.
2. SEAL AROUND PIPE PENETRATIONS WITH RUBBER SPRAY FOAM INSULATION PER ICS-705 REQUIREMENTS.
3. ROUTE CONDENSATE DRAIN DOWN WALL TO TERMINATE AT MOP SINK OR NEAREST FLOOR DRAIN WITH AIR GAP.
4. RACK 2-1/2" HWS/R, 3" CWS/R, & FP PIPING ON WALL AND CONNECT TO EXISTING PENETRATIONS THRU WALLS.
5. CONNECT NEW PIPING TO EXISTING RISER THRU TO SECOND FLOOR MEZZANINE.
6. REINSULATE EXISTING AIR SEPARATOR IN THE SOUTH MECHANICAL ROOM.
7. ELEVATOR PIT SUMP PUMP DISCHARGE.
8. REPLACE EXISTING GAS METER AND (2) WATER METERS. REF DETAIL 4/MI101 FOR CONTROLS.
9. ADD HWR THERMOMETER AND TEMP SENSOR TO DDC SYSTEM.
10. EXTEND 3/4" HWS/R TO UNIT HEATER. PIPING SHALL BE SIMILAR TO 8/M-501.
11. PROVIDE DIFFERENTIAL PRESSURE SENSORS ON TOP OF PIPING AND PROVIDE BLOWDOWN VALVES. – REFER TO TEMPERATURE CONTROLS.

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DATE: JANUARY 2019

PROJECT NAME:

KANG REPAIR BUILDING 44 FOR CACS

McConnell AFB PRQE 072247

Project No. 12094.020

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Sheet: MP101
Sheet No. 38 OF 66

RECORD DRAWINGS

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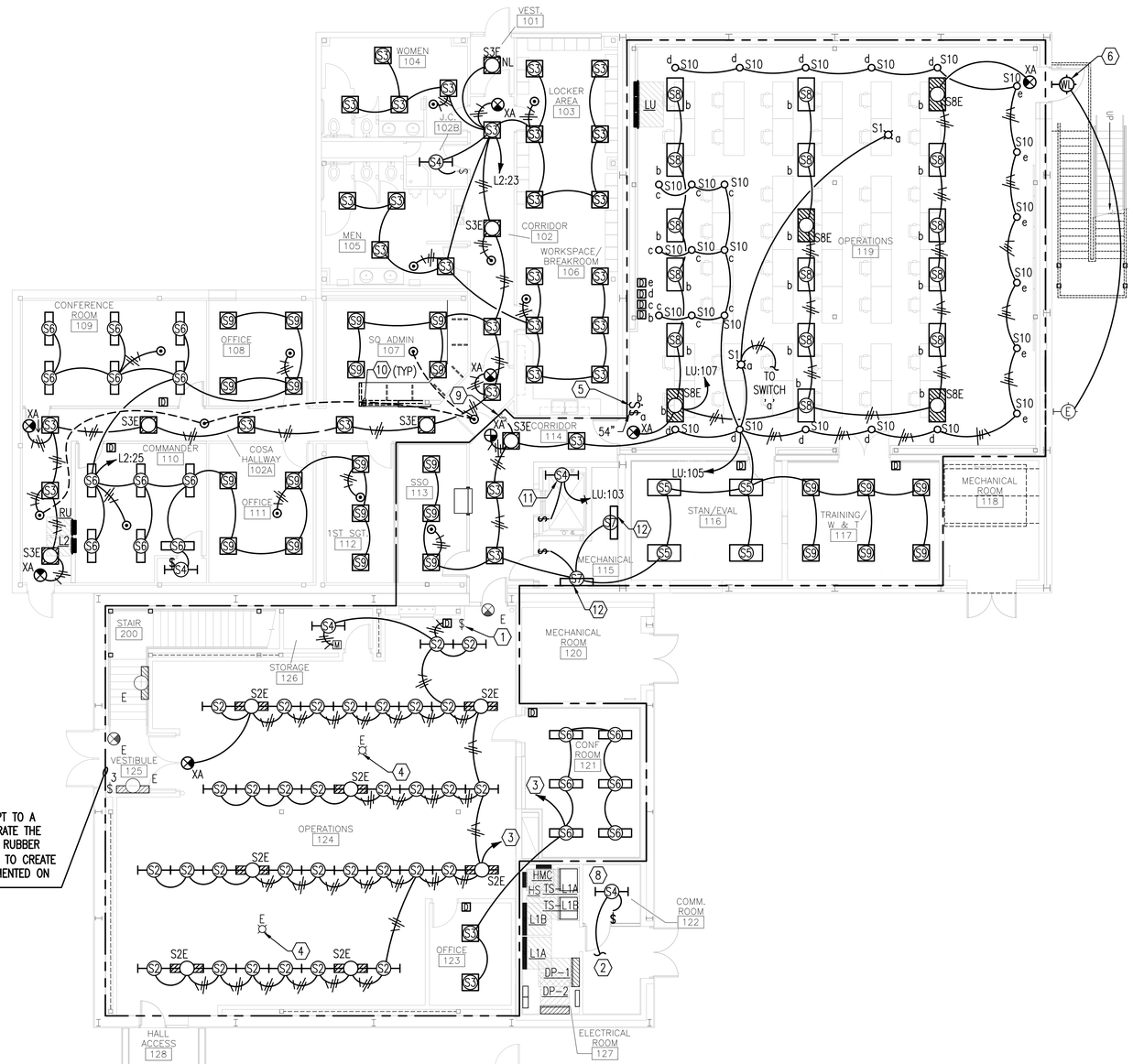

PERIMETER OF SECURE AREA. PENETRATIONS SHALL BE KEPT TO A MINIMUM. ALL METALLIC CONDUITS AND PIPING THAT PENETRATE THE SECURE AREA WALLS, FLOOR, OR CEILING SHALL HAVE FLEX RUBBER SEALANT INSTALLED COMPLETELY AROUND THE PIPE/CONDUIT TO CREATE THE DIELECTRIC UNION. ALL PENETRATIONS SHALL BE DOCUMENTED ON AS-BUILT DRAWINGS.

(A) ELECTRICAL INTERIOR FIRST FLOOR LIGHTING PLAN

0' 4' 8' 12' 20'

SCALE: 1/8" = 1'-0"

N

PLAN NOTES:

1. BRANCH CIRCUITS ARE INDICATED AS ONE CIRCUIT HOME RUNS WITH INDIVIDUAL NEUTRALS. A MAXIMUM OF THREE CIRCUITS (MAXIMUM OF THREE PHASE CONDUCTORS) MAY BE GROUPED IN A SINGLE CONDUIT. WHERE MULTIPLE CIRCUITS ARE LOCATED IN THE SAME RACEWAY, JUNCTION BOX OR ENCLOSURE, NEUTRALS SHALL BE MARKED OR LABELED TO INDICATE WHICH CIRCUIT THEY ARE ASSOCIATED WITH. SEE SPECIFICATION SECTION "LOW VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES" FOR ADDITIONAL INFORMATION.
2. A GROUND CONDUCTOR SIZED PER N.E.C. ARTICLE 250 IS REQUIRED IN ALL CONDUITS.
3. ALL PENETRATIONS IN THE RATED AND STC WALLS AND CEILINGS SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASSES. THE SEALANT SHALL HAVE A T-RATING OF ONE HOUR.
4. ALL PIPING, CONDUIT, AND OUTLET BOXES (ELECTRIC, TELEPHONE, COMPUTER, ETC.) IN THE RATED WALLS OR CEILING AND STC WALLS SHALL BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIAL.
5. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LIGHT FIXTURE LOCATIONS. VERIFY ALL DISCREPANCIES WITH ARCHITECT PRIOR TO ROUGH-IN.

(#) KEYED NOTES:

1. RELOCATED EXISTING LIGHT FIXTURE/SWITCH. RE-CONNECT TO EXISTING CIRCUITING AND SWITCHING.
2. CONNECT TO EXISTING LIGHTING CIRCUIT IN THIS AREA. UPDATE PANEL SCHEDULE ACCORDINGLY.
3. CONNECT TO EXISTING LIGHTING CIRCUIT MADE SPARE BY DEMOLITION. UPDATE PANEL SCHEDULE ACCORDINGLY.
4. EXISTING SIGNAL LIGHTS AND ASSOCIATED SWITCHING SHALL BE ALTERED SUCH THAT ONLY THE BLUE SIGNAL LIGHT IS OPERATIONAL. OTHER SIGNAL LIGHTS SHALL BE REMOVED.
5. NOT USED.
6. MOUNT ABOVE DOOR. CONNECT TO EXISTING EXTERIOR LIGHTING CIRCUIT AND CONTROLS.
7. NOT USED.
8. WORK IN THIS ROOM IS PRIORITY ONE TO ALLOW EXISTING COMMUNICATIONS ROOM TO BE DEACTIVATED.
9. SURFACE MOUNTED SWITCH. RECONNECT TO EXISTING SWITCHING/CIRCUITING IN AREA.
10. INTERLOCK OCCUPANCY SENSORS AS REQUIRED.
11. MOUNT IN PIT. REFER TO DETAIL 1/E-504.
12. CONDUIT AND OUTLET BOX SHALL BE SURFACE MOUNTED.

ALL WORK INDICATED ON THIS SHEET SHALL BE PART OF CLIN 002, EXCEPT FOR THE NEW LIGHT FIXTURES AND ASSOCIATED CABLING, CONDUIT, AND CONTROL IN ROOMS 123, 124 AND 126. THE REMOVAL OF THESE FIXTURES, INSTALLATION AND ASSOCIATED CABLING, CONDUIT AND CONTROL SHALL BE UNDER CLIN 002, BID OPTION 2.

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DATE: OCTOBER 2018

PROJECT NAME:

KANG REPAIR BUILDING 44 FOR CACS

McConnell AFB PRQE 072247

Project No. 12094.020

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Sheet: EL101	
Sheet No. 57 OF 66	

RECORD DRAWINGS

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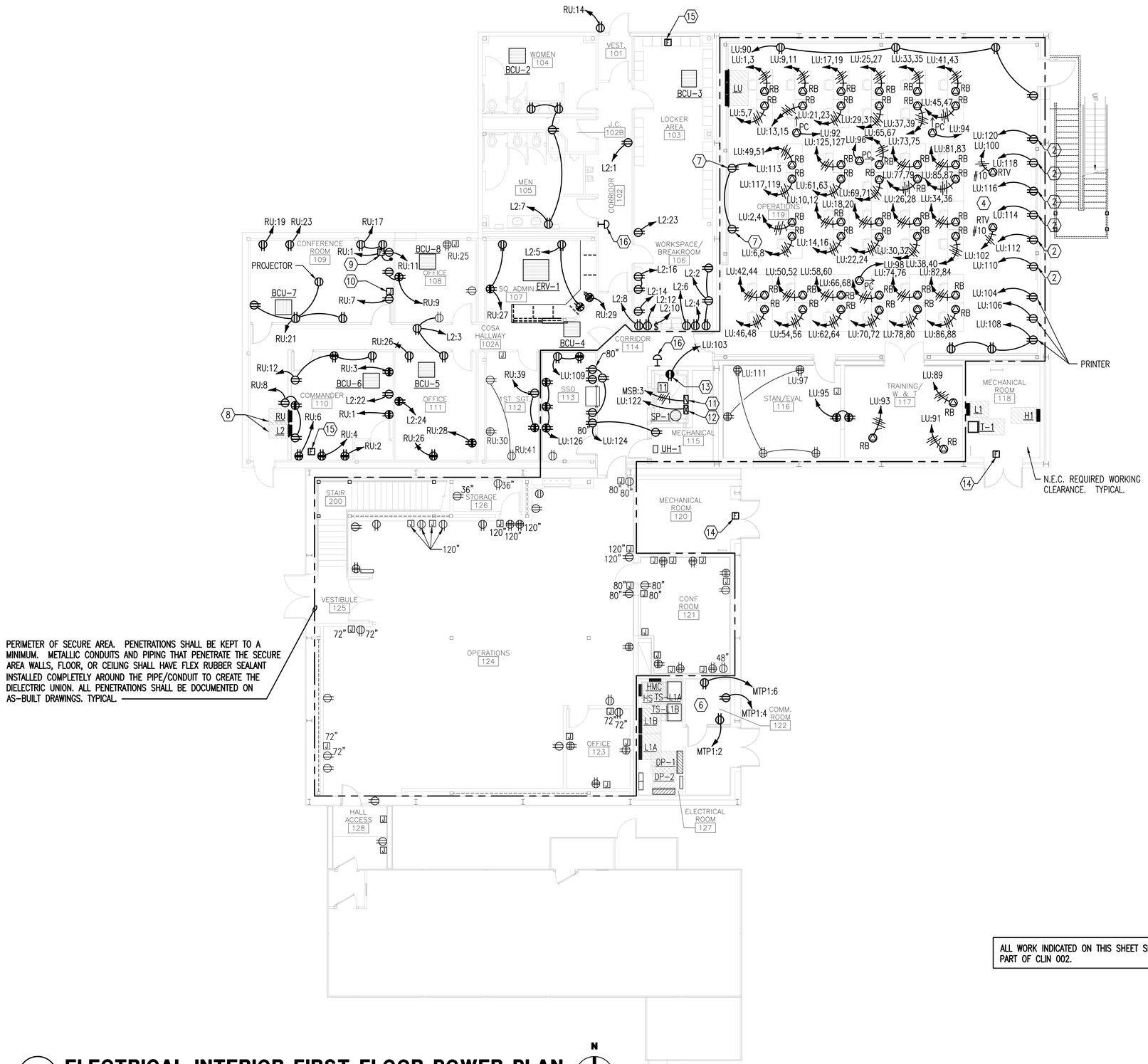

A **ELECTRICAL INTERIOR FIRST FLOOR POWER PLAN**

PLAN NOTES:

1. BRANCH CIRCUITS ARE INDICATED AS ONE CIRCUIT HOME RUNS WITH INDIVIDUAL NEUTRALS. A MAXIMUM OF THREE CIRCUITS (MAXIMUM OF THREE PHASE CONDUCTORS) MAY BE GROUPED IN A SINGLE CONDUIT. WHERE MULTIPLE CIRCUITS ARE LOCATED IN THE SAME RACEWAY, JUNCTION BOX OR ENCLOSURE, NEUTRALS SHALL BE MARKED OR LABELED TO INDICATE WHICH CIRCUIT THEY ARE ASSOCIATED WITH. SEE SPECIFICATION SECTION "LOW VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES" FOR ADDITIONAL INFORMATION.
2. A GROUND CONDUCTOR SIZED PER N.E.C. ARTICLE 250 IS REQUIRED IN ALL CONDUITS.
3. FOR CONNECTION REQUIREMENTS TO MECHANICAL UNITS, SEE MECHANICAL EQUIPMENT CONNECTION SCHEDULE.
4. ALL PENETRATIONS IN THE RATED WALLS AND CEILINGS SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASSES. THE SEALANT SHALL HAVE A T-RATING OF ONE HOUR.
5. ALL PIPING, CONDUIT, AND OUTLET BOXES (ELECTRIC, TELEPHONE, COMPUTER, ETC.) IN THE RATED WALLS OR CEILING AND STC WALLS SHALL BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIAL.
6. OUTLET BOXES (ELECTRIC, TELEPHONE, COMPUTER, ETC.) SHALL BE LIMITED TO TWO OUTLET BOXES PER STUD SPACE. OUTLET BOXES ON OPPOSITE SIDES OF THE RATED WALLS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF 24 INCHES.

KEYED NOTES:

1. NOT USED.
2. THERE SHALL BE (3) DUPLEX RECEPTACLES FOR TELEVISIONS: ONE MOUNTED HIGH, MIDDLE AND LOW. VERIFY MOUNTING HEIGHTS WITH ARCHITECTURAL INTERIOR ELEVATIONS.
3. CONNECT TO EXISTING RECEPTACLE CIRCUIT IN THE ROOM.
4. ALL FLEXIBLE METALLIC RACEWAY FOR 'RB' SPECIAL OUTLETS SHALL BE ROUTED BELOW THE RAISED FLOOR. FLEXIBLE METALLIC RACEWAYS FOR EACH SPECIAL OUTLET SHALL BE ROUTED BELOW THE CABLE TRAY AND TO THE ASSOCIATED PANEL VIA THE PANEL SKIRT. REFER TO SHEET TG101 FOR CABLE TRAY LOCATIONS.
5. NOT USED.
6. WORK IN THIS ROOM IS PRIORITY ONE TO ALLOW EXISTING COMMUNICATIONS ROOM TO BE DEACTIVATED.
7. MOUNT AT 18" ABOVE PODIUM HEIGHT.
8. EXTEND EXISTING CIRCUITS TO REMAIN TO NEW PANEL.
9. FUSTAT ABOVE ACCESSIBLE CEILING FOR CONNECTION TO POWERED PROJECTION SCREEN.
10. JUNCTION BOX AT 46"AFF WITH 1"C TO ABOVE ACCESSIBLE CEILING FOR PROJECTION SCREEN CONTROLS.
11. BUSSMAN POWER MODULE SWITCH FOR ELEVATOR. REFER TO DETAIL 1/E-504.
12. 20A. 120V. BREAKER FOR ELEVATOR CAR LIGHTING. REFER TO DETAIL 1/E-504.
13. MOUNT 48" ABOVE BOTTOM OF PIT. REFER TO DETAIL 1/E-504.
14. FUSTAT FOR MOTORIZED DAMPER. CONNECT TO SAME CIRCUIT AND INTERLOCK WITH OPERATION OF EXISTING EXHAUST FAN IN ROOM.
15. 24-VOLT FUSTAT FOR MOTORIZED DAMPER.
16. PUSHBUTTON FOR EMERGENCY SHUTDOWN OF HVAC EQUIPMENT. PUSHBUTTON PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR. REFERENCE MECHANICAL DETAIL. PROVIDE 24V. POWER TO PUSHBUTTON.

ALL WORK INDICATED ON THIS SHEET SHALL BE PART OF CLIN 002.

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DATE: OCTOBER 2018

PROJECT NAME:
KANG REPAIR BUILDING 44 FOR CACS

McConnell AFB
PRQE 072247

Project No. 12094.020

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Sheet Name: ELECTRICAL INTERIOR FIRST FLOOR POWER PLAN
Sheet: EP101
Sheet No. 59 OF 66

RECORD DRAWINGS

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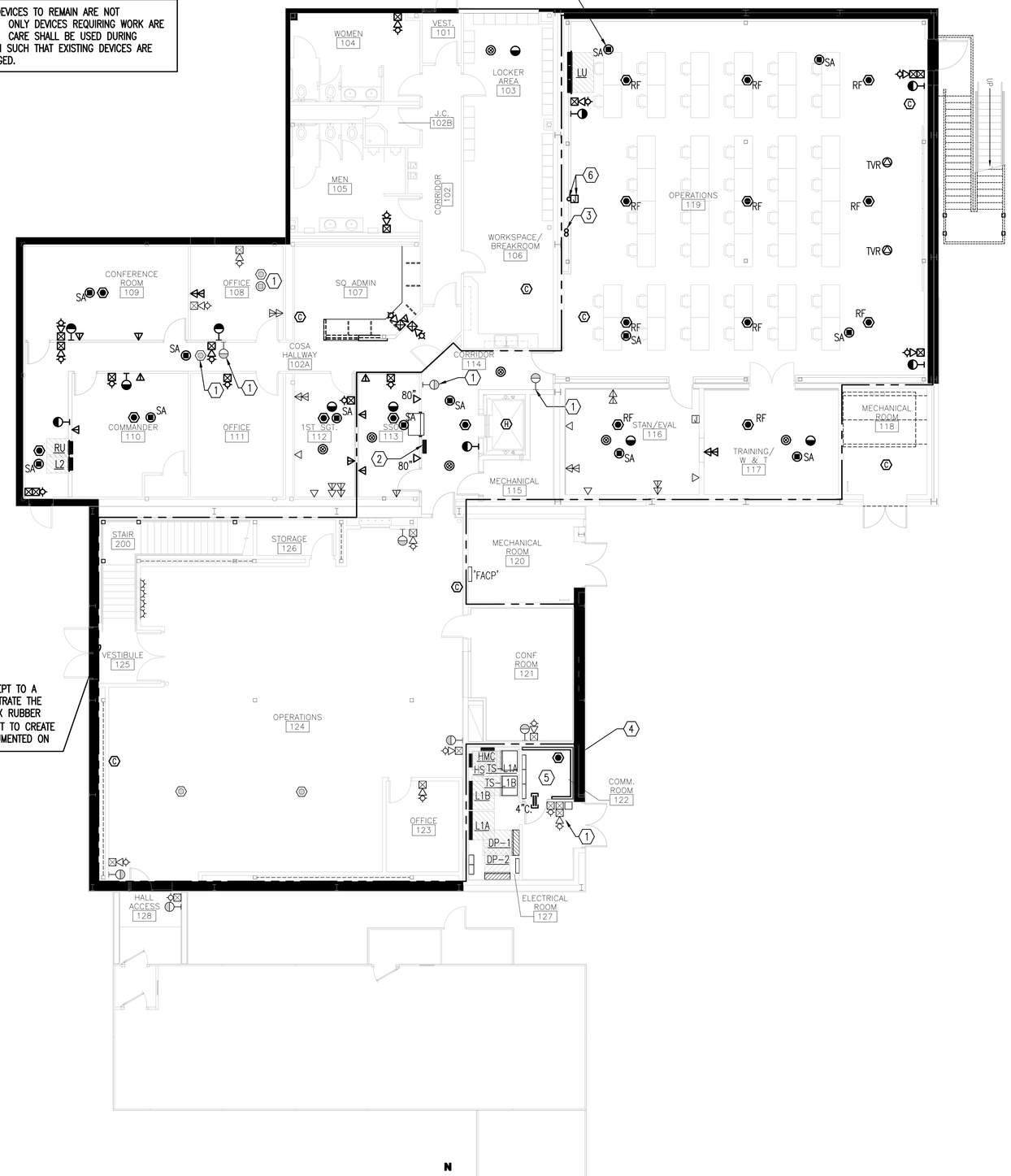
EXISTING DEVICES TO REMAIN ARE NOT INDICATED. ONLY DEVICES REQUIRING WORK ARE INDICATED. CARE SHALL BE USED DURING DEMOLITION SUCH THAT EXISTING DEVICES ARE NOT DAMAGED.

ALL MASS NOTIFICATION SPEAKERS SHALL BE SELF AMPLIFIED. TYPICAL.

PERIMETER OF SECURE AREA. PENETRATIONS SHALL BE KEPT TO A MINIMUM. ALL METALLIC CONDUITS AND PIPING THAT PENETRATE THE SECURE AREA WALLS, FLOOR, OR CEILING SHALL HAVE FLEX RUBBER SEALANT INSTALLED COMPLETELY AROUND THE PIPE/CONDUIT TO CREATE THE DIELECTRIC UNION. ALL PENETRATIONS SHALL BE DOCUMENTED ON AS-BUILT DRAWINGS.



A ELECTRICAL INTERIOR FIRST FLOOR SYSTEMS PLAN

0' 4' 8' 12' 20'

SCALE: 1/8" = 1'-0"

PLAN NOTES:

1. ALL PENETRATIONS IN THE RATED AND STC WALLS AND CEILINGS SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASSES. THE SEALANT SHALL HAVE A T-RATING OF ONE HOUR.
2. ALL PIPING, CONDUIT, AND OUTLET BOXES (ELECTRIC, TELEPHONE, COMPUTER, ETC.) IN THE RATED WALLS OR CEILING AND STC WALLS SHALL BE CONSTRUCTED OF NON-COMBUSTIBLE MATERIAL.
3. OUTLET BOXES (ELECTRIC, TELEPHONE, COMPUTER, ETC.) SHALL BE LIMITED TO TWO OUTLET BOXES PER STUD SPACE. OUTLET BOXES ON OPPOSITE SIDES OF THE RATED WALLS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF 24 INCHES.
4. WHERE THE SAME DEVICE IS SHOWN IN THE SAME LOCATION ON BOTH THE POWER AND SYSTEMS PLAN, ONLY ONE DEVICE IS REQUIRED. PROVIDE BOTH POWER AND SYSTEMS WIRING AS SHOWN.
5. THE FIRE ALARM SYSTEM SHOWN HAS BEEN DESIGNED PER THE REQUIREMENTS OF NFPA 72. DEVICES SHOWN INDICATE DESIGN INTENT AND SHALL BE THE MINIMUM PROVIDED. SYSTEM SUPPLIER SHALL PROVIDE ANY ADDITIONAL CODE REQUIRED DEVICES OR DEVICES REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

(#) KEYED NOTES:

1. RELOCATED EXISTING DEVICE(S). RE-CONNECT TO EXISTING CIRCUITING AS REQUIRED.
2. RELOCATED EXISTING SURFACE MOUNTED MASS NOTIFICATION FIRE ALARM PANEL.
3. (2) 4"C. ROUTED IN WALL FROM SECOND FLOOR DOWN TO ABOVE ACCESSIBLE CEILING ON FIRST FLOOR FOR TELECOMMUNICATIONS CABLING PATHWAY BETWEEN FLOORS. (2) 4"C. ROUTED IN WALL FROM BELOW FIRST FLOOR RAISED FLOOR TO ABOVE ACCESSIBLE CEILING FOR TELECOMMUNICATIONS CABLING PATHWAY.
4. INSTALL 3/4" x 8'-0"H. PLYWOOD BACKBOARD PAINTED TWO COATS WHITE WITH FIRE RETARDANT PAINT. INSTALL 1/4" x 2" x 12"L. TELECOMMUNICATIONS GROUNDING BUSBAR WITH #6 AWG CU. CONNECTED TO TELECOM RACK AND #3/0 AWG CU. CONNECTED TO THE MAIN SERVICE ENTRANCE.
5. GFCI TELECOM RACK SHALL BE PROTECTED DURING CONSTRUCTION SO IT REMAINS OPERATIONAL AT ALL TIMES. WORK IN THIS ROOM IS PRIORITY ONE TO ALLOW EXISTING COMMUNICATIONS ROOM TO BE DEACTIVATED.
6. (1) 2"C. ROUTED FROM BELOW RAISED FLOOR TO ABOVE ACCESSIBLE CEILING FOR GFCI CABLING. ROUTE CONDUIT THROUGH JUNCTION BOX MOUNTED AT 46" AFF. PROVIDE BLANK COVERPLATE FOR J-BOX.

ALL WORK INDICATED ON THIS SHEET SHALL BE PART OF CLIN 002.

MASS NOTIFICATION SYSTEM SCOPE:

MONACO BT-XM MNS UPGRADE KIT: #227-422-99.

1. CONNECT MASS NOTIFICATION SYSTEM TO EXISTING BASEWIDE ALERT SYSTEM

2. INSTALL AND CONFIGURE MONACO BT-XM AND SP40S FOR REMOTE MNS MESSAGE ACTIVATION.

3. PROGRAM AND CONFIGURE ALL SIX OF MCCONNELL'S STANDARD PRE-RECORDED MASS NOTIFICATION MESSAGES IN SP40S SYSTEM.

4. COORDINATE WITH MCCONNELL FIRE DEPARTMENT TO SETUP AND TEST MASS NOTIFICATION MESSAGES WITHIN FACILITY.

5. CONFIGURE ADDITIONAL ZONE ON MONACO BT-XM TO TRANSMIT A "MASS NOTIFICATION ACTIVE SUPERVISORY".

6. CUSTOMER TRAINING ON NEW EQUIPMENT AND CONFIGURATION.

7. INSTALL ADDITIONAL CABLE BETWEEN MAIN SP40S PANEL LOCATION AND REMOVE LOC LOCATION TO ENABLE THE CAPABILITY TO ACTIVATE ALL SIX MASS NOTIFICATION MESSAGES LOCALLY. CURRENT CABLING ONLY ALLOWS FOR UP TO FOUR MESSAGES.

COORDINATE WITH KANG FOR ALL WORK LISTED ABOVE.

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Project No. 12094.020

Revisions:

Chief Designer: JLM

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Sheet: ET101

Sheet No. 61 OF 66

RECORD DRAWINGS

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