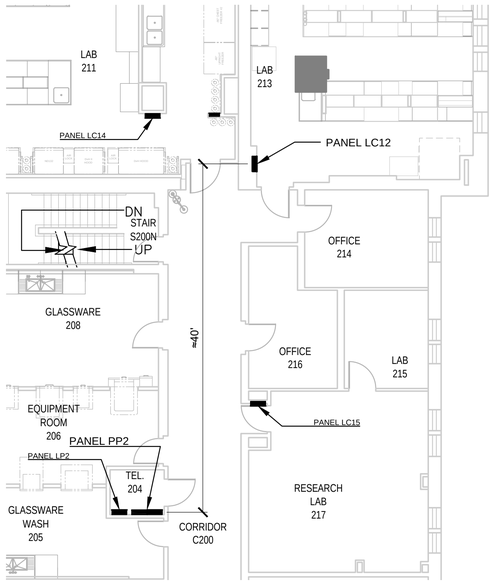
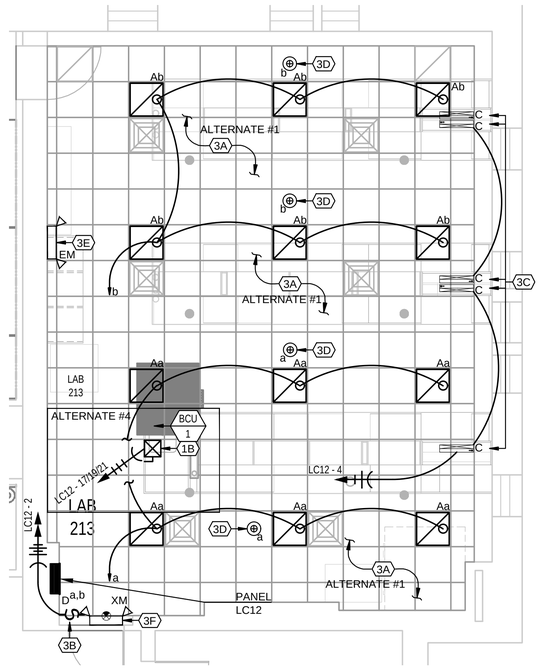


KEY PLAN

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

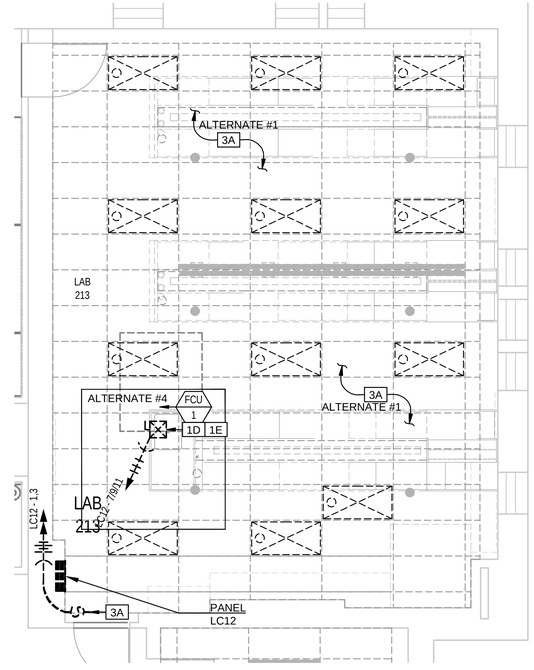
ELECTRICAL LEGEND

- HOME RUN W/ CIRCUIT NUMBER (CKT#)
- 208Y/120V PANELBOARD
- DISCONNECT SWITCH
- JUNCTION BOX
- DUPLEX RECEPTACLE (CIRCUIT NUMBER DESIGNATION)
- QUADPLEX RECEPTACLE
- SPECIAL PURPOSE RECEPTACLE
- BLANK FACE-PLATE
- TELEPHONE OUTLET
- COMPUTER OUTLET
- DATA/COM COMBO OUTLET
- DATA CEILING/FLOOR OUTLET
- FIRE ALARM HORN
- FIRE ALARM STROBE
- FIRE ALARM SMOKE DETECTOR (HVAC DUCT MOUNTED)
- FIRE ALARM HEAT DETECTOR
- FIRE ALARM PULL-STATION
- FIRE ALARM MAGNETIC DOOR HOLD OPEN
- FIRE ALARM HORN/STROBE
- SINGLE POLE SWITCH (SWITCH LEG DESIGNATION)
- THREE - WAY SWITCH
- DIMMING SWITCH
- LIGHT FIXTURE - TROFFER (FIXTURE TYPE DESIGNATION; SWITCH LEG DESIGNATION)
- LIGHT FIXTURE - TROFFER. W/ EMERG. BALLAST
- LIGHT FIXTURE - UNDER CABINET
- OCCUPANCY SENSOR
- EXIT SIGN
- EMERGENCY LIGHT
- EXIT/EMERGENCY LIGHT COMBINATION UNIT



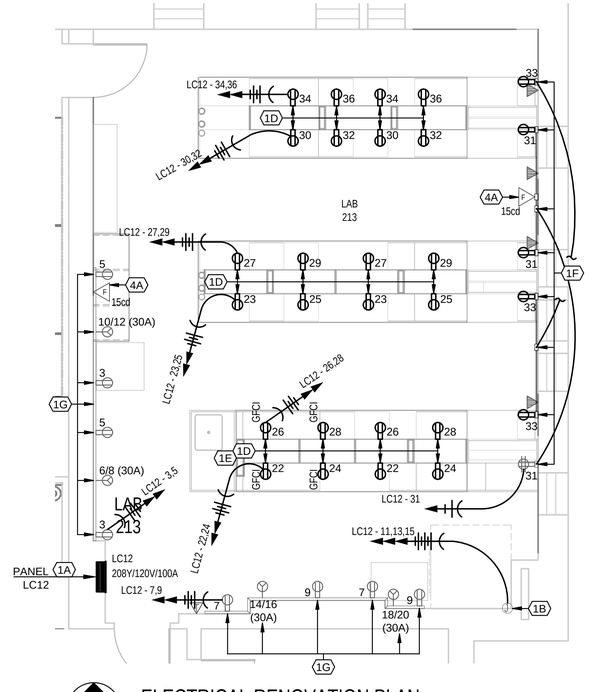
LIGHTING RENOVATION PLAN

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



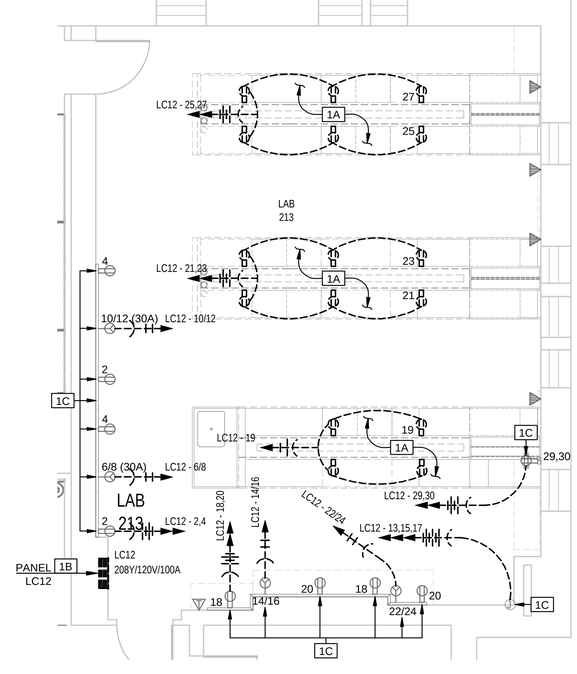
LIGHTING DEMOLITION PLAN

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



ELECTRICAL RENOVATION PLAN

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



ELECTRICAL DEMOLITION PLAN

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

GENERAL ELECTRICAL NOTES

1. GENERAL
   - A. EXISTING CIRCUITS AND EQUIPMENT LOCATIONS SHALL BE FIELD VERIFIED. REPORT ANY AND ALL DISCREPANCIES TO ENGINEER PRIOR TO PROCEEDING.
   - B. ALL FUSES SHALL BE CLASS R1 UNLESS OTHERWISE NOTED.
   - C. EACH CIRCUIT SHALL HAVE A DEDICATED NEUTRAL. SHARED NEUTRALS SHALL NOT BE USED UNLESS OTHERWISE NOTED.
   - D. ALL CONDUIT INSTALLED SHALL BE 3/4" OR LARGER UNLESS OTHERWISE NOTED.
   - E. DATA/TELEPHONE AND LOW VOLTAGE CONDUCTORS SHALL NOT BE RUN IN THE SAME RACEWAY COMPARTMENT WITH POWER CIRCUITS.
   - F. ALL CONDUCTORS, WIRE, AND CABLE SHALL BE INSTALLED IN A RACEWAY SYSTEM.
   - G. CONTRACTOR SHALL INSTALL RACEWAY TO ALL POWER, DATA, AND TELEPHONE BOXES INSTALLED FOR FUTURE USE.
   - H. INSTALL PULL STRINGS IN ALL EMPTY CONDUITS INSTALLED UNDER THIS PROJECT.
   - J. ALL SWITCH AND RECEPTACLE COVER PLATES SHALL BE ABUSE RESISTANT NYLON UNLESS OTHERWISE NOTED.
   - K. PAINT ALL EXPOSED RACEWAY TO MATCH ADJACENT SURFACES.
   - L. CONTRACTOR SHALL PROVIDE A TYPED CIRCUIT IDENTIFICATION CARD SHOWING ALL CIRCUIT ADDITIONS AND MODIFICATIONS FOR EACH PANELBOARD AFFECTED UNDER THIS PROJECT.

ELECTRICAL DEMOLITION NOTES

INDICATES NOTES LOCATED ON PLAN

1. POWER:
   - A. REMOVE RECEPTACLES ASSOCIATED WITH CASEWORK SCHEDULED TO BE REMOVED. REMOVE ASSOCIATED CONDUCTORS BACK TO PANEL. RETAIN CONDUIT FOR REUSE.
   - B. REMOVE PANEL AND ASSOCIATED FEEDER CONDUCTORS BACK TO DISTRIBUTION PANEL PP2. RETAIN CONDUIT FOR REUSE. RETAIN AND RETURN BREAKERS TO OWNER.
   - C. REMOVE CONDUCTORS FROM RECEPTACLES, WIREMOLD, AND FUME HOOD BACK TO PANEL. RETAIN WIREMOLD, JUNCTION BOXES AND CONDUIT FOR REUSE.
   - D. (BASE) REMOVE CONDUCTORS FROM FCU DISCONNECT BACK TO PANEL AS PART OF BASE BID. RETAIN DISCONNECT FOR REUSE.
   - E. (ALT #4) REMOVE DISCONNECT AND CONDUCTORS FROM FCU SCHEDULED FOR REMOVAL BACK TO PANEL AS PART OF ALTERNATE #4.
2. DATA & TELEPHONE:
   - A. RETAIN EXISTING DATA FOR REUSE, UNLESS OTHERWISE INDICATED.
3. LIGHTING:
   - A. (ALT #1) REMOVE LIGHT FIXTURES ASSOCIATED SWITCHES, CONDUCTORS, AND ACCESSIBLE CONDUIT BACK TO PANEL. RETAIN CONCEALED CONDUIT AND SWITCH BOX FOR REUSE.
4. FIRE ALARM:
   - A. NOT USED

ELECTRICAL RENOVATION NOTES

INDICATES NOTES LOCATED ON PLAN

1. POWER:
   - A. INSTALL PANEL "LC12" AT LOCATION SHOWN. INSTALL AMPERE INTERRUPTING CAPACITY (AIC) RATING NAMEPLATE (SEE PANELBOARD SCHEDULE) ON FACE OF PANEL. INSTALL NEW FEEDER CIRCUIT, THREE #1 AWG CONDUCTORS, ONE #2 AWG NEUTRAL, AND ONE #8 AWG GROUND IN CONDUIT RETAINED FROM PANEL PP2 TO NEW PANEL LC12.
   - B. RECONNECT EXISTING FUME HOOD WITH ALL CIRCUITS NECESSARY FOR FUME HOOD, RECEPTACLES AND LIGHTS AS SHOWN. REUSE SALVAGED CONDUIT SERVICING FUME HOOD.
   - C. (ALT #4) CONNECT NEW BLOWER COIL UNIT (BCU-12), PROVIDE 20 AMP DISCONNECT SWITCH AND ROUTE NEW CIRCUIT IN SALVAGED CONDUIT AS PART OF ALTERNATE #4.
   - D. INSTALL ALUMINUM SURFACE MOUNTED RACEWAY ON BOTH SIDES OF ISLAND BENCH REAGENT SHELF AND FASTEN TO UNDER SIDE OF SHELF WITH #8 SCREWS. USE WIREMOLD ALA3800 SERIES ALUMINUM RACEWAY SYSTEM, OR APPROVED EQUAL. INSTALL EQUALLY SPACED DUPLEX RECEPTACLES IN RACEWAY AS SHOWN. PROVIDE AND INSTALL ALL NECESSARY RACEWAY SYSTEM COMPONENTS TO ENSURE A COMPLETE INSTALLATION. REFER TO ARCHITECTURAL ELEVATION SHEET FOR ADDITIONAL INFORMATION.
   - E. INSTALL GFCI PROTECTED RECEPTACLE AT WEST END OF BENCH WITHIN SIX FEET OF SINK.
   - F. SURFACE MOUNT RECEPTACLES AT APPROXIMATELY 36" AFF TO FIT BELOW WINDOW SILL ALONG EAST WALL AS SHOWN TO INCLUDE EXISTING RECEPTACLE PREVIOUSLY RETAINED AND TWO (2) CIRCUITS DIVIDED AS INDICATED.
   - G. RECONNECT RETAINED RECEPTACLES IN SURFACE MOUNTED RACEWAY ON WEST WALL AND SOUTH WALL TO INCLUDE TWO (2) 20 AMP CIRCUITS IN EACH RACEWAY AND TWO (2) 30 AMP 208 VOLT CIRCUITS.
   - H. LABEL ALL RECEPTACLES USING WHITE ADHESIVE LABELING TAPE WITH 1/4" BLACK LETTERING SHOWING THE PANEL NAME AND BREAKER NUMBER PROVIDING POWER TO THE RECEPTACLES (FOR EXAMPLE LC12-24).
2. DATA & TELEPHONE:
   - A. NOT USED.
3. LIGHTING:
   - A. INSTALL LIGHT FIXTURE (MARK 'A') IN RENOVATED CEILING GRID AS SHOWN. AS PART OF ALTERNATE #1. SEE LIGHT FIXTURE SCHEDULE FOR FIXTURE DATA.
   - B. (ALT #1) INSTALL 0-10 VOLT DIMMING LIGHT SWITCH TO CONTROL LIGHTS AS SHOWN. AS PART OF ALTERNATE #2. REUSE SALVAGED SWITCH BOX AND CONCEALED CONDUIT.
   - C. INSTALL UNDER CABINET LIGHT FIXTURE (MARK 'C') UNDER CABINET AS SHOWN. SEE LIGHT FIXTURE SCHEDULE FOR FIXTURE DATA.
   - D. INSTALL OCCUPANCY SENSOR ON CEILING AT LOCATION SHOWN TO CONTROL LIGHTING ONLY. USE WATT STOPPER, CAT. NO. DT-300, OR APPROVED EQUAL. INCLUDE ONE POWER PACK BZ-50.
   - E. INSTALL EMERGENCY LIGHT FIXTURE AT 8'-6" AFF IN LOCATION SHOWN.
   - F. INSTALL EXIT SIGN/EMERGENCY LIGHT FIXTURE CENTERED ABOVE DOOR AS SHOWN.
4. FIRE ALARM:
   - A. INSTALL FIRE ALARM STROBE AT 86" (TO CENTER) AFF IN LOCATION SHOWN. CONNECT TO NEAREST EXISTING NOTIFICATION CIRCUIT (NAC 1) LOCATED IN ROOM 211. PROVIDE FCI 7200 ADDRESSABLE FIRE ALARM SYSTEM, WHEELOCK DEVICES TO MATCH EXISTING FIRE ALARM SYSTEM.
   - B. LABEL THE BOTTOM OF FIRE ALARM DEVICES USING WHITE ADHESIVE LABELING TAPE WITH 3/8" BLACK LETTERING SHOWING THE NOTIFICATION ALARM CIRCUIT NUMBER (FOR EXAMPLE NAC-4).

STATE OF MISSOURI
JAMES L. DOVE
NUMBER PE-2002016644
PROFESSIONAL ENGINEER

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JAMES L. DOVE
MO.# E-2002016644

James L. Dove P.E
Digitally signed by James L. Dove P.E
Date: 2021.09.07 14:31:16 -05'00'

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09/13/21	ISSUED FOR CONSTRUCTION	
DRAWN BY: JDR	CHECKED BY: JLD	

CAMPUS FACILITIES
Planning, Design, & Construction
Design Services
UNIVERSITY OF MISSOURI

SCHWEITZER HALL
COLUMBIA, BOONE COUNTY, MISSOURI 65211
RENOVATE LAB 213
ELECTRICAL AND LIGHTING PLANS

PROJECT NUMBER
CP211261

SHEET
E101