All 120V and 208V normal power devices should be provided with minimum 3/4" EMT from accessible ceiling space down wall to all devices along 2nd/3rd/4th casework receptacles unless noted otherwise. Laboratory equipment rated 120V/1PH, 20A with a flexible cord shall be powered via integral submittals for architectural/engineering review prior to purchase. Coordinate exact location and requirements with Division 22/23 contractors prior to rough-in.

Provide (1) 1" conduit with pullstring from all AV boxes and (1) 1-1/4" conduit with pullstring from all submittals prior to installation. Coordinate locations, mounting heights and finishes of all devices with architectural plans, provide (2) 1" conduits for AV to above accessible ceiling. In information, refer to detail 7/E504.

Provide (2) 1" conduits for AV, (1) 1-1/4" conduit for tele/data, and (1) 3/4" conduit for power from overhead location and requirements with Division 22/23 contractor prior to rough-in. Provide motor rated toggle switch and power connection to Division 22/23 equipment. Coordinate not used.

Provide devices indicated and flush mounted centered below display box at standard heights. Indicated and mounted to display box. Coordinate with AV contractor prior to rough-in.

Coordinate locations, mounting heights and finishes of all devices with architectural plans, provide devices indicated and flush mounted centered below display box at standard heights. Indicated and mounted to display box. Coordinate with AV contractor prior to rough-in.

Provide minimum 3/4" EMT from accessible ceiling space down wall to all devices along 2nd/3rd/4th casework receptacles unless noted otherwise. Laboratory equipment rated 120V/1PH, 20A with a flexible cord shall be powered via integral submittals for architectural/engineering review prior to purchase. Coordinate exact location and requirements with Division 22/23 contractors prior to rough-in.
POWER PLAN KEYED NOTES:

1. PROVIDE POWER CONNECTION FROM HEAT TRACE CONTROLLER TO TERMINAL BLOCK AT PIPING. COORDINATE WITH EXACT LOCATION AND REQUIREMENTS WITH DIVISION 22/23 CONTRACTOR PRIOR TO ROUGH-IN.

2. PROVIDE (2) 1" CONDUITS FOR AV TO ABOVE ACCESSIBLE CEILING. PROVIDE (2) 1" CONDUITS FOR AV, (1) 1-1/4" CONDUIT FOR TELE/DATA, AND (1) 3/4" CONDUIT FOR POWER FROM DEVICE TO ADJACENT VALVES. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH DIVISION 22/23 CONTRACTOR PRIOR TO ROUGH-IN.

3. CONNECT TRANSFORMER SECONDARY GROUND AND TELECOMM GROUNDING BUSBAR TO BUILDING STEEL. NEUTRAL WIRE IS REQUIRED PRIOR TO ROUGH-IN. PROVIDE ISOLATED GROUND WIRE, REF DETAIL 11/E503.

GENERAL POWER PLAN NOTES:

- PROVIDE DISPLAY BOX FLUSH MOUNTED IN WALL BEHIND TV. PROVIDE TELE/DATA AND ELECTRICAL DEVICES INDICATED AND MOUNT TO DISPLAY BOX. COORDINATE WITH AV CONTRACTOR PRIOR TO ROUGH-IN.

- PROVIDE FLUSH MOUNTED BOX IN WALL (SIZED AND LOCATED PER MANUFACTURER'S IN THIS AREA SHALL BE SERVED BY PANEL PP-N-LW-CS U.O.N.

NOTES:

- (2)#6, (1)#10, TEMST (1)#10 IG, (1)3/4"C

- PESEL (LE-COE-0001-3)

- (1) TEMST (LE-CHE-0294)

- CSP2

- TEMST (LE-CHE-0064)

- CSP3

- SEM (1) TEMST

- SEM (1) TEMST

- FESEM

- 048A

- 048

- 050

- 055

- 060B

- 34

- 52

- 42,44

- 46

- 47

- 81

- 31

- 33

- 37

- 50

- 83

- 62

- 60

- 41,43,45

- 48

- 52

- 50

- 31

- 33

- 46

- 47

- 81

- 31

- 33

- 46

- 47

STUDIES OF THEIR REQUIRED SHOP DRAWINGS.

SUBCONTRACTORS FROM FULL RESPONSIBILITY FOR PREPARATION OF SHOP DRAWINGS. THE PROVISION OF THIS AGREEMENT BETWEEN THE OWNER AND BALLINGER AND TO WHEN THIS DOCUMENT IS SUPPLIED TO EITHER OWNER OR BALLINGER SHALL NOT MAKE BALLINGER RESPONSIBLE FOR THE PERPERATION OF THEIR REQUIRED SHOP DRAWINGS.
GENERAL POWER PLAN NOTES:

1. FOR ADDITIONAL GENERAL POWER PLAN NOTES, REFER TO SHEET E200.2.

LOCATIONS IN FIELD.

EXACT LOCATION AND REQUIREMENTS WITH DIVISION 22/23 CONTRACTOR PRIOR TO ROUGH-IN.

PROVIDE POWER CONNECTION AND DISCONNECT SWITCH, SIZED AS INDICATED.

CONNECT TRANSFORMER SECONDARY GROUND TO GROUNDING BUSBAR.

FUME HOOD ALARM CIRCUIT.
VERIFY EXTERIOR UTILITY YARD EXACT PAD SIZE & LOCATION REQUIREMENTS WITH APPROVED SUBMITTALS AND COORDINATE WITH CONSTRUCTION MANAGER PRIOR TO INSTALLATION. COORDINATE BOLLARD LOCATIONS TO ALLOW ALL ACCESS PANEL TO FULLY OPEN.

GENERAL POWER PLAN NOTES:

FOR DRAWING NOTES, ABBREVIATIONS, MOUNTING HEIGHTS, AND SYMBOLS, REFER TO SHEET E001.

FOR ADDITIONAL GENERAL POWER PLAN NOTES, REFER TO SHEET E200.2.

POWER PLAN KEYED NOTES:

PROVIDE POWER CONNECTION TO COMPACTOR MOTOR AND CONTROLS. COORDINATE EXACT LOCATION OF DISCONNECT SWITCH AND CONTROL PANEL PRIOR TO ROUGH-IN. FOR DISCONNECT SIZES, REFER TO SHEET E303.

ROUTE BRANCH CIRCUIT CONDUITS BELOW GRADE.

PROVIDE EQUIPMENT RACK FOR MOUNTING OF DISTRIBUTION EQUIPMENT. PROVIDE WEATHER PROOF WIREWAY AS INDICATED ON SHEET E302.

COORDINATE EXACT LOCATIONS OF CHARGING EQUIPMENT STATIONS WITH CONSTRUCTION MANAGER PRIOR TO ROUGH-IN.

PROVIDE (4)#8, (1)#10G IN (1) 1" CONDUIT BELOW GRADE FROM JUNCTION BOX AND ROUTE TO WITHIN ELECTRICAL 100E2 FOR FUTURE FORKLIFT CHARGER.

scale:

1/4" = 1'-0"
Provide (2) 1" conduits for AV, (1) 1-1/4" conduit for Tele/Data, and (1) 3/4" conduit for power from 11PP-UPS-3E.

For additional general power plan notes, refer to sheet E200.2.

Connection to lab equipment shown. Location and requirements with Division 22/23 contractor prior to rough-in. Provide motor rated toggle switch and power connection to Division 22/23 equipment. Coordinate exact systems furniture wiring shall share same circuit indicated. Connect switched portion of circuit to panelboard circuit(s) indicated.

Ceiling service panel (CSP) furnished and installed by others. Provide power connection to CSP from fume hood alarm circuit.

For additional general power plan notes, refer to sheet E200.2.

Circuits in this area shall be served by panel PP-N-2W-L2 U.O.N.

The provision of this convenience to such subcontractors in their documentation. Contractor may make electronic files of subsequent use of the information contained on the document.
POWER PLAN PART 5
SECOND FLOOR
PROJECT NO:  KC.G.ENGR.2015.002

FOR DRAWING NOTES, ABBREVIATIONS, MOUNTING HEIGHTS, AND SYMBOLS, REFER TO SHEET E001.
FOR ADDITIONAL GENERAL POWER PLAN NOTES, REFER TO SHEET E200.2.

1. PROVIDE DISPLAY BOX FLUSH MOUNTED IN WALL BEHIND TV. PROVIDE TELE/DATA AND ELECTRICAL DEVICES INDICATED AND MOUNT TO DISPLAY BOX. COORDINATE WITH AV CONTRACTOR PRIOR TO ROUGH-IN.

2. PROVIDE DEVICES INDICATED AND FLUSH MOUNT CENTERED BELOW DISPLAY BOX AT STANDARD HEIGHTS. COORDINATE WITH AV CONTRACTOR PRIOR TO ROUGH-IN.

3. PROVIDE (2) 1" CONDUITS FOR AV, (1) 1-1/4" CONDUIT FOR TELE/DATA, AND (1) 3/4" CONDUIT FOR POWER FROM DEVICE TO ABOVE ACCESSIBLE CEILING, REFER TO DETAIL 8/E504.

4. PROVIDE (1) 1-1/4" AND (1) 1" CONDUITS FOR AV FROM DEVICE TO ABOVE ACCESSIBLE CEILING.

1/4" = 1'-0"
PROVIDE POWER CONNECTION TO FACTORY INSTALLED DISCONNECT SWITCH ON DIVISION 23 EQUIPMENT.

CIRCUITS IN THIS AREA SHALL BE ALL 120V AND 208V NORMAL

1/4" = 1'-0"
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<th>Tag</th>
<th>Description</th>
<th>Location</th>
<th>Volts</th>
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CIRCUITS IN THIS AREA SHALL BE ALL 120V AND 208V NORMAL