CONTROL DIAGRAMS FOR ADDITIONAL CIRCUITING

VIEW IN WHICH THEY APPEAR. PHASING SHOWN IN DRAWINGS IS NOT

WHICH IS DETERMINED BY THE CONTRACTOR AS PART OF THEIR

DEMOLISH— — — — —

INTENDED TO FULLY DESCRIBE ALL NECESSARY CONSTRUCTION PHASING,

RESPONSIBILITIES. ANY SUCH PHASES DESCRIBED IN THE CONSTRUCTION

LINETYPES MAY BE USED ON ANY DEVICE, EQUIPMENT, NOTE, LINE, SHAPE,

NEW

FUTURE

DOCUMENTS ARE GENERAL AND ONLY INTENDED TO INDICATE A BROAD

ORDER FOR THE SAKE OF DESCRIBING THE PROJECT. THE FOLLOWING

☐ ☐ CEILING/FLOOR MOUNT JUNCTION/OUTLET BOX

WALL MOUNT JUNCTION/OUTLET BOX

REFER TO LIGHTING CONTROL DEVICE SCHEDULE FOR MORE

SPECIFICATIONS

DEVICE TYPES.

TECHNOLOGY HANDHOLE REFER TO TECHNOLOGY

SYMBOL DEMONSTRATED WITH DUPLEX RECEPTACLE, WHEN USED IN

COMBINATION WITH OTHER DEVICES MEANING IS SIMILAR FOR THOSE

<u>SPECIAL SYSTEMS SUPPLEMENTAL SPECIFICATIONS:</u> <u>COMMISSIONING / FUNCTIONAL TESTING:</u> CONNECTIONS TO TEMPERATURE CONTROL DEVICES PER MANUFACTURER'S RECOMMENDATIONS. THIS INCLUDES BUT IS V3.00 NOT LIMITED TO: MAIN CONTROL PANELS, THERMOSTATS HUMIDISTATS, AC SOLENOIDS, HEAT RECLAIM WIRING, AHU CONTROL WIRING, DUCT FURNACE CONTROL WIRING, TIMERS AND SIMILAR CONTROLS. PROVIDE CONDUIT FOR ALL WIRING WITHIN WALLS. PROVIDE CONTROL AND INTERLOCK WIRING WHEN NOT PROVIDED BY OTHER TRADES. COORDINATE REQUIREMENTS WITH EQUIPMENT SUPPLIERS AND OTHER DRAWOUT CIRCUIT BREAKER (RATINGS AS INDICATED) TRADES PRIOR TO ROUGH-IN. PROVIDE LINE VOLTAGE WIRING AND MAKE FINAL CONNECTIONS ###AF FRS FUSED SWITCH (RATING, POLES AND FUSE TYPE AS TO ALL DUCT-MOUNTED SMOKE DETECTORS. FIRE/SMOKE AND SMOKE DAMPERS WHERE APPLICABLE, COORDINATE REQUIREMENTS WITH OTHER TRADES PRIOR TO INSTALLATION. $^{\mathsf{FRS}\,\mathsf{NEMA}\,\#}$ COMBINATION FUSED SWITCH/STARTER AND STARTER SIZE 3. DEVICES MOUNTED ON ACOUSTICAL TILE CEILINGS SHALL BE CENTERED ON THE TILE, UNO. 4. PROVIDE BOX AND **3/4"** CONDUIT, AT A MINIMUM, FROM EACH CIRCUIT BREAKER (RATINGS AS INDICATED) THERMOSTAT LOCATION TO MECHANICAL EQUIPMENT, (FLUSH MOUNT BOX WHEREVER PRACTICABLE). COORDINATE LOCATION OF ALL THERMOSTAT BOXES WITH MECHANICAL/CONTROLS CONTRACTOR AND OWNER PRIOR TO ROUGH-IN. COMBINATION CIRCUIT BREAKER/STARTER AND STARTER 5. PROVIDE BOXES AND CONDUITS FOR THE FIRE PROTECTION SYSTEM LOW VOLTAGE WIRING AS REQUIRED. THIS INCLUDES PANELBOARD, SINGLE OR MULTI-SECTION (REFER TO

EXPOSED WIRING LESS THAN 96" AFF. AT A MINIMUM, PROVIDE 3/4" CONDUIT, UNLESS NOTED OTHERWISE. COORDINATE REQUIREMENTS AND LOCATIONS WITH SYSTEM INSTALLER AND FIRE ALARM SPECIFICATIONS. 6. AT A MINIMUM, PROVIDE EXTRA DEEP, DOUBLE GANG COMMUNICATION OUTLET BOXES, (FLUSH MOUNTED WHEREVER PRACTICABLE). WITH SINGLE-GANG PLASTER RING AND 1"

CONDUIT STUBBED-UP CONCEALED TO ACCESSIBLE CEILING SPACE, UNLESS NOTED OTHERWISE. PROVIDE SURFACE MOUNTED DATA BOXES WITHIN CABINETRY, AND SELECT OTHER LOCATIONS AS INDICATED ON THE DRAWINGS. COORDINATE TELEPHONE/DATA BOX AND CONDUIT LOCATIONS AND SIZES WITH OWNER AND OTHER TRADES PRIOR TO ROUGH-IN.

PROVIDE NYLON BUSHINGS FOR ALL COMMUNICATIONS AND LOW VOLTAGE WIRING CONDUITS AND SLEEVES, UNLESS NOTED

8. ALL COMMUNICATIONS AND LOW VOLTAGE WIRING CONDUIT SHALL BE INSTALLED WITH AN ACCESSIBLE PULLBOX BETWEEN EVERY 180 DEGREE CHANGE IN DIRECTION AND AT 100' INTERVALS OF CONTINUOUS RUNS.

MINIMUM BEND RADIUS FOR COMMUNICATIONS CONDUIT IS 6 TIMES THE INSIDE DIAMETER FOR CONDUITS 2" IN DIAMETER AND SMALLER AND 10 TIMES THE INSIDE DIAMETER FOR CONDUITS GREATER THAN 2" IN DIAMETER, UNLESS NOTED OTHERWISE.

10. LOW VOLTAGE COMMUNICATION, ENERGY MANAGEMENT, SOUND SYSTEM, SECURITY AND RELATED WIRING IS TO BE PERFORMED BY OTHERS UNDER A SEPARATE CONTRACT, UNLESS NOTED OTHERWISE. PROVIDE BOXES AND CONDUIT IN FINISHED AND RATED FLOORS/WALLS/CEILINGS TO ACCESSIBLE LOCATIONS FOR ALL LOW VOLTAGE WIRING. PROVIDE ALL LINE VOLTAGE CIRCUITRY (120V AND HIGHER) TO OWNER FURNISHED EQUIPMENT AND LOW VOLTAGE STEP-DOWN TRANSFORMERS AS REQUIRED. COORDINATE ELECTRICAL REQUIREMENTS AND LOCATIONS WITH SYSTEM INSTALLER AND OWNER.

11. ALL LOW VOLTAGE CLASS 2 OR 3 WIRING NOT IN CONDUIT SHALI BE PLENUM RATED WHERE APPLICABLE.

12. LOW VOLTAGE CABLE SHEATH LABELS AND RELATED MANUFACTURER INFO SHALL REMAIN APPARENT IN ALL EXPOSED APPLICATIONS, PROTECT ALL EXPOSED CABLING FROM PAINTING AND OVERSPRAY (INCLUDES CABLE NOT ROUTED IN CONDUIT AND THAT IS IN CABLE TRAY).

13. CABLES SHALL BE ROUTED THROUGH THE BUILDING CABLE TRAY/RACEWAY SYSTEM, UNLESS NOTED OTHERWISE. EXPOSED CABLING SHALL NOT BE ROUTED IN AREAS EXPOSED TO STRUCTURE UNLESS SPECIFICALLY PERMITTED BY THE OWNER. IN AREAS WHERE EXPOSED CABLES ARE ALLOWED, IT SHALL BE INSTALLED IN A NEAT AND WORKMAN LIKE MANNER IN ACCORDANCE WITH THE OWNER'S REQUIREMENTS. WHERE REQUIRED, PROVIDE CONDUIT TO ROUTE LOW VOLTAGE CABLING TO THE CABLE TRAY OR NEAREST ACCESSIBLE CEILING

14. CONDUITS FOR COMMUNICATIONS OUTLETS SERVING ELEVATOR EQUIPMENT ROOMS, FACP, AND SIMILAR CRITICAL EQUIPMENT AS DESIGNATED BY THE OWNER SHALL BE CONTINUOUS ("HOMERUN") FROM OUTLET TO SERVING COMMUNICATIONS

APPLICABLE ELECTRICAL CODES:

NOTE: PROJECT IS DESIGNED IN COMPLIANCE WITH THE FOLLOWING CODES. THIS IS NOT AN EXHAUSTIVE LIST. PROJECT SHALL COMPLY WITH ALL APPLICABLE CODES, STANDARDS AND LOCAL REQUIREMENTS. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

ELECTRICAL CODE: 2017 NATIONAL ELECTRICAL CODE, (NFPA 70) BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE ENERGY CODE: **NONE**

CONTRACTOR'S BID SHALL INCLUDE PROVISIONS TO PROVIDE ALL SERVICES RELATED TO THE CODE REQUIRED BUILDING SYSTEMS COMMISSIONING INCLUDING A COMMISSIONING PLAN, FUNCTIONAL TESTING, AND RELATED DOCUMENTATION, REPORTS AND OWNER TRAINING. THIS INCLUDES RETAINING THE SERVICES OF A 3RD PARTY REGISTERED DESIGN PROFESSIONAL OR APPROVED AGENCY. REFER TO THE LATEST ADOPTED EDITION OF THE APPLICABLE ENERGY CODE FOR MORE INFORMATION. CONTRACTOR SHALL COMPLETE ALL RELATED COMMISSIONING REQUIREMENTS PRIOR TO FINAL INSPECTIONS IN ACCORDANCE WITH THE CONSTRUCTION

DOCUMENTS, CODE AND MANUFACTURER'S INSTRUCTIONS.

ELECTRICAL SUPPLEMENTAL SPECIFICATIONS: . PRIOR TO SUBMITTING BID. VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS. AS APPLICABLE, REVIEW THE OWNER CRITERIA, GENERAL NOTES, OTHER TRADE DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT AND ENGINEER OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO SUBMITTING BID.

2. ALL WORK SHALL CONFORM TO ALL LOCAL CODES AND ORDINANCES AS WELL AS APPLICABLE INDUSTRY STANDARDS. ALL EQUIPMENT SHALL BEAR LABELS FOR THE USE INTENDED BY AN AHJ ACCEPTED NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL), SUCH AS UL OR ETL. THE FINAL ELECTRICAL INSTALLATION OF THE FACILITY OCCUPIED BY OWNER SHALL BE FREE FROM ELECTRICAL DEFECTS TO THE SATISFACTION OF THE AHJ, OWNER, ARCHITECT AND ENGINEER.

3. COORDINATE FINAL LOCATION AND INSTALLATION REQUIREMENTS OF ALL LIGHT FIXTURES, ELECTRICAL EQUIPMENT AND ELECTRICAL DEVICES WITH ARCHITECTURAL DRAWINGS. EXISTING CONDITIONS AND OTHER TRADES PRIOR TO ROUGH-IN. PROVIDE ALL NECESSARY DEVICES, CORDS, PLUGS, DISCONNECTS AND FINAL CONNECTIONS TO ELECTRICAL EQUIPMENT FOR PROPER OPERATION IN ACCORDANCE WITH CODE, OWNER AND MANUFACTURER REQUIREMENTS.

4. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC/SCHEMATIC IN NATURE AND REPRESENT THE GENERAL SCOPE OF WORK. IT IS NOT WITHIN THE SCOPE OF THE ELECTRICAL DRAWINGS TO SHOW ALL NECESSARY RACEWAY ROUTING, BENDS, OFFSETS, PULL BOXES AND OBSTRUCTIONS. CONTRACTOR SHALL COORDINATE THE FINAL LOCATION OF EQUIPMENT AND WIRING DEVICES WITH OTHER TRADES PRIOR TO INSTALLATION AND INSTALL ALL WORK TO CONFORM TO THE OWNER REQUIREMENTS.

. ALL CONDUCTOR AND CONDUIT LENGTHS SHOWN IN THESE DESIGN DOCUMENTS ARE INTENDED SOLELY FOR USE IN THE DESIGN CALCULATIONS BY THE DESIGN PROFESSIONAL, UNLESS NOTED OTHERWISE. LENGTHS SHOWN SHALL NOT BE USED TO ASSIST IN THE BIDDING TAKEOFF PROCESS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MATERIAL QUANTITIES REQUIRED TO BID AND CONSTRUCT THE COMPLETE PROJECT.

6. PROVIDE PROPER FIRE PROOFING AND SEALANT FOR PENETRATIONS THROUGH FIRE RATED ASSEMBLIES. THE FIRE STOPPING METHOD, MATERIAL AND ITS APPLICATION SHALL BE NRTL LISTED, CODE COMPLIANT AND APPROVED BY AHJ.

. FOR CAST-IN-PLACE CONCRETE, TILT-UP WALLS, PRECAST OR SIMILAR PRE-ENGINEERED WALL SYSTEMS: COORDINATE THE FINAL LOCATION OF ALL ELECTRICAL DEVICES, RACEWAYS, LIGHT FIXTURES AND PENETRATIONS WITH ARCHITECT. WALL SUPPLIER AND OTHER TRADES PRIOR TO WALL CONSTRUCTION. CONDUIT/RACEWAY IMBEDDED IN CONCRETE WALLS SHALL BE SCHEDULE 80 PVC OR LFMC: OTHER TYPES MAY BE ALLOWED IF APPROVED BY WALL SYSTEM MANUFACTURER AND ENGINEER.

ICC 500/STORM OR FEMA SHELTERS. WHERE REQUIRED ELECTRICAL RACEWAY, ROUGH-IN, OR OTHER EQUIPMENT RESULTS IN PENETRATIONS EQUAL TO EXCEEDING 3-1/2" SQUARE INCHES OR 2-1/16" IN ANY DIMENSION. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT AND MATERIALS REQUIRED FOR PENETRATION PROTECTION AS OUTLINED IN ICC 500. COORDINATE ALL PENETRATIONS AND PROTECTIONS WITH STRUCTURAL ENGINEER'S REQUIREMENTS.

9. ALL APPLICABLE SWITCHES, RECEPTACLES, OUTLETS, AND CONTROLS SHALL BE PLACED AT HEIGHTS THAT ARE IN ACCORDANCE WITH ADA ACCESSIBILITY GUIDELINES.

10. COORDINATE FLOOR MOUNTED BOX, RECEPTACLE, AND COVER PLATE TYPES WITH ARCHITECT AND OWNER PRIOR TO ORDER. 11. WIRING DEVICES ADJACENT TO EACH OTHER SHALL BE INSTALLED

UNDER A SINGLE COVER PLATE, UNO. 12. WIRING DEVICES SHOWN BACK-TO-BACK ON A COMMON WALL

SHALL BE OFFSET A MINIMUM OF 12" HORIZONTALLY TO REDUCE SOUND TRANSMISSION BETWEEN ROOMS, UNO.

13. ALL WP OUTLET BOX HOODS SHALL BE "EXTRA-DUTY" AND "WHILE-IN-USE COVER" TYPE, OUTLET BOX HOODS SHALL BE LOW PROFILE WHEREVER PRACTICABLE, UNLESS NOTED OTHERWISE. THE USE OF LARGE BUBBLE COVERS SHALL BE AVOIDED ON THE EXTERIOR OF THE BUILDING OR BEHIND EQUIPMENT IN ORDER TO PREVENT DAMAGE TO THE COVER AND TO ALLOW THE EQUIPMENT TO BE LOCATED CLOSE TO THE WALL.

14. ALL 120V RECEPTACLES 50A OR LESS, 208V AND 240V RECEPTACLES 100A OR LESS, SHALL BE GFCI PROTECTED IN LOCATIONS REQUIRED BY CODE; THIS INCLUDES BATHROOMS, KITCHENS/FOOD PREP AREAS, EXTERIOR LOCATIONS AND RECEPTACLES WITHIN 6 FEET OF A SINK. GFCI RECEPTACLES SHALL BE READILY ACCESSIBLE AND SHALL NOT BE LOCATED BEHIND STATIONARY EQUIPMENT. GFCI PROTECTION MAY BE VIA A GFCI CIRCUIT BREAKER OR GFCI RECEPTACLE, UNLESS NOTED OTHERWISE. WHERE NECESSARY, GFCI PROTECTION MAY BE ACHIEVED VIA A BLANK FACE GFCI DEVICE LOCATED IN A READILY ACCESSIBLE LOCATION NEAR RECEPTACLE BEING PROTECTED. FOR DOWNSTREAM WIRING DEVICES LOCATED ON THE SAME BRANCH CIRCUIT, THE GFCI PROTECTION MAY BE PROVIDED FOR BY A SINGLE UPSTREAM DEVICE IF ALL PROTECTED DEVICES ARE LABELED PER CODE.

15. PROVIDE TAMPER-RESISTANT (TR) TYPE RECEPTACLES AT ALL CODE REQUIRED LOCATIONS AND AT LOCATIONS WHERE RECEPTACLES ARE MOUNTED LESS THAN 5'-6" AFF AND ARE EASILY ACCESSIBLE BY CHILDREN, UNLESS NOTED OTHERWISE.

16. FLEXIBLE CONDUIT IS ONLY PERMITTED WHERE SPECIFICALLY ALLOWED IN THE CONSTRUCTION DOCUMENTS, WHERE CONCEALED FROM VIEW OR EXPOSED FINAL CONNECTIONS TO LIGHT FIXTURES AND EQUIPMENT IN LENGTHS OF 6'-0" OR LESS.

17. ALL EMPTY CONDUIT/RACEWAY SHALL BE INSTALLED WITH PULL STRINGS. TERMINATE CONDUIT STUB-UP WITH A NYLON BUSHING.

18. EXPOSED CONDUIT/RACEWAY SHALL BE PAINTED TO MATCH ADJACENT SURFACE, UNLESS NOTED OTHERWISE. COORDINATE REQUIREMENTS WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.

19. CONDUITS/RACEWAYS SHALL BE CONCEALED FROM VIEW WHEREVER PRACTICABLE, UNLESS NOTED OTHERWISE, ROUTE CONDUITS SERVING ROOFTOP EQUIPMENT CONCEALED INSIDE EQUIPMENT CURB AND MINIMIZE ROOF PENETRATIONS AND EXTERIOR CONDUIT RUNS WHERE PRACTICABLE. SUPPORT RACEWAY FROM STRUCTURE, NOT ROOF DECK. MAINTAIN 2" MIN SPACING FROM BOTTOM OF ROOF DECK TO PREVENT ROOFING SCREWS FROM PENETRATING RACEWAY. DO NOT ROUTE CONDUITS ACROSS SKYLIGHTS, ACCESS PANELS, HATCHED TILES. HVAC DIFFUSERS, OR EQUIPMENT WORKING CLEARANCE SPACE. ROUTE ALL EXPOSED NON-FLEXIBLE CONDUITS TIGHT TO STRUCTURE, PARALLEL TO BUILDING LINES AND IN STRUT OR CABLE/PIPE TRAY WHERE PRACTICABLE. INSTALL CONDUITS PLUMB/ LEVEL WHERE EXPOSED TO VIEW. COORDINATE RACEWAY ROUTING AND INSTALLATION WITH OTHER TRADES PRIOR TO

20. WHERE PRACTICABLE, ALL UNDER-FLOOR/UNDER-GROUND CONDUITS/RACEWAY SHALL BE INSTALLED A MINIMUM OF 24" BELOW BOTTOM OF SLAB/PAVING/GRADE, UNLESS NOTED OTHERWISE. NOTE: THE DESIGN INTENT FOR INSTALLING ELECTRICAL CIRCUITRY AT THIS DEPTH IS TO ELECTRICAL CIRCUITRY FROM DAMAGE DUE TO FUTURE WORK.

21. PROVIDE LABEL AT EACH RECEPTACLE COVER PLATE WITH THE RESPECTIVE "PNLBD-CKT#" DESIGNATION, COORDINATE LABEL REQUIREMENTS WITH THE OWNER PRIOR TO INSTALLATION. REFER TO THE SPECIFICATIONS FOR MORE INFORMATION.

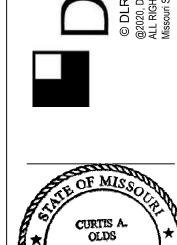
22. MULTIWIRE BRANCH CIRCUITS ARE NOT ALLOWED, UNLESS NOTED OTHERWISE.

23. PROVIDE INSULATED EQUIPMENT GROUNDING CONDUCTOR FOR ALL CIRCUITS, UNLESS NOTED OTHERWISE.

no

CONSTRUCTION

LEE'S SUMMIT, MISSOURI



PE-2018036644

LICENSE # PE-2018036640

PACKAGE 3 - BUILDING & 10/08/20 **REVISIONS** ADDENDUM 001 ADDENDUM 002

10/19/20

13-20102-00 ELECTRICAL

GENERAL NOTES AND LEGEND

LIGHTING SUPPLEMENTAL SPECIFICATIONS:

ELECTRICAL ONE-LINE & RISER DIAGRAM

SCHEDULES)

INDICATED)

###A 3P M/G GENERATOR (RATINGS AS INDICATED)

GROUND FAULT RELAY

PHASE FAILURE RELAY

VOLTMETER SWITCH

SURGE-PROTECTIVE DEVICE

GROUND CONNECTION WITH TEST WELL

GROUND CONNECTION

LIGHTNING ARRESTER

BLOCK LOAD KW OR KVA

VOLTAGE DROP SPREADSHEET

SHUNT TRIP

REQUIRED

GROUND ROD

CAPACITOR

→ HEATER

NON-SEPARATELY DERIVED SOURCE

AMPS 480Y/277V 3Ø 4W SWITCHGEAR, SWITCHBOARD AND/OR DISTRIBUTION

ACCESSORIES AS INDICATED)

COMBINATION DIGITAL VOLT METER/AMMETER

KIRK-KEY INTERLOCK (# INDICATES KEY PAIR)

AMMETER (RANGE AS SPECIFIED OR REQUIRED)

VOLTMETER (RANGE AS SPECIFIED OR REQUIRED)

WATT-HOUR METER, "D" DENOTES DEMAND REGISTER, "15"

FAULT POINT REFERENCED IN SHORT CIRCUIT CURRENT AND

CURRENT TRANSFORMER RATING AS SPECIFIED OR

POTENTIAL TRANSFORMER RATING AS SPECIFIED OR

UTILITY METER (AS REQUIRED BY UTILITY)

DENOTES MINUTES OF DEMAND INTERVAL

CIRCUIT IDENTIFICATION (REFER TO CIRCUIT SCHEDULE)

PANELBOARD (TYPE, RATING, DEVICES AND

- SEPARATELY DERIVED SOURCE

ATS# (W/BYPASS)

ATS# (W/BYPASS

##KW GENERATOR

480Y/277V, 3Ø, 4W

ISOLATED POWER PANELBOARD W/ INTEGRAL

TRANSFORMER (TYPE AND RATINGS AS INDICATED)

SHIELDED TRANSFORMER (TYPE AND RATINGS AS INDICATED)

AUTOMATIC TRANSFER SWITCH (RATINGS AS INDICATED)

AUTOMATIC TRANSFER SWITCH WITH BYPASS (RATINGS AS

TRANSFORMER (REFER TO SCHEDULES)

SWITCH (RATING AS INDICATED)

REFER TO THE ARCHITECTURAL DRAWINGS FOR LIGHT FIXTURE LOCATIONS, MOUNTING HEIGHTS, TRACK LENGTHS AND ADDITIONAL MOUNTING INFORMATION. CONTRACTOR SHALL BE RESPONSIBLE FOR INSURING THAT COORDINATION AND CONFLICT ISSUES ARE RESOLVED PRIOR TO INSTALLATION OF LIGHT FIXTURES. CONTACT ARCHITECT/ENGINEER IMMEDIATELY IF

THERE ARE DISCREPANCIES. THROUGH WIRING OF RECESSED LIGHT FIXTURES, IN SUSPENDED CEILINGS, IS NOT PERMITTED. CONNECT EACH LIGHT FIXTURE BY A WHIP TO A JUNCTION BOX. PROVIDE CABLE WHIPS OF SUFFICIENT LENGTHS TO ALLOW FOR RELOCATING EACH LIGHT FIXTURE WITHIN A 5'-0" RADIUS OF ITS INDICATED LOCATION. CABLE WHIPS

SHALL NOT EXCEED 6'-0" OF UNSUPPORTED LENGTHS. ALL EMERGENCY LIGHTS AND EXIT SIGNS WITH INTEGRAL BATTERY BACK-UP SHALL BE CONNECTED TO A SEPARATE UNSWITCHED CONDUCTOR BYPASSING ALL OTHER CONTROLS AND CONTACTORS. UNLESS NOTED OTHERWISE, EXIT SIGNS SHALL NOT BE SWITCHED. REFER TO MANUFACTURER'S WRITTEN INSTRUCTIONS FOR PROPER INSTALLATION AND TESTING. ALLOW BATTERY TO CHARGE FOR A MINIMUM OF 48 HOURS BEFORE LIGHT LEVEL TESTING. IN ORDER TO PREVENT BATTERY DAMAGE, DO NOT TURN OFF POWER FOR EXTENDED PERIODS OF TIME AFTER EMERGENCY LIGHT HAS BEEN POWERED.

PROVIDE A NEUTRAL CONDUCTOR TO ALL WALL MOUNTED LINE VOLTAGE LIGHT SWITCHES, UNLESS NOTED OTHERWISE. IF NEUTRAL TERMINATION IS NOT REQUIRED FOR THE DEVICE THEN CAP CONDUCTOR AND TAG AS "NEUTRAL FOR FUTURE USE".

COORDINATE ALL OCCUPANCY/VACANCY SENSOR SETTINGS WITH OWNER AND ADJUST AS NECESSARY FOR PROPER OPERATION. SETTINGS MUST COMPLY WITH AHJ AND LOCAL ENERGY CODE REQUIREMENTS.

DO NOT INSTALL OCCUPANCY/VACANCY SENSORS WITHIN 48" OF AIR DIFFUSER OR SIMILAR OBSTRUCTION THAT MAY ADVERSLY AFFECT THE SENSOR PERFORMANCE. COORDINATE FINAL SENSOR LOCATIONS WITH OTHER TRADES AND INSTALL IN

LIGHTING GENERAL NOTES:

1. THE EMERGENCY LIGHTING SYSTEM HAS BEEN DESIGNED TO PROVIDE AN INITIAL FLOOR ILLUMINANCE LEVEL OF 1 FC AVERAGE 0.1 FC MINIMUM AND NO MORE THAN A 40:1 MAX/MIN RATIO ALONG THE EMERGENCY EGRESS PATHS. WHERE APPLICABLE, ADJUST AIMING OF EMERGENCY LIGHTS AS REQUIRED TO PROVIDE PROPER ILLUMINATION AT FLOOR AVOIDING OBSTACLES AND SHADOWS AFTER STORE SET-UP IS COMPLETE.

2. WALL MOUNTED EXITS SIGNS SHALL BE MOUNTED 12" ABOVE DOOR FRAME AND CENTERED ABOVE DOOR OPENING, UNLESS NOTED OTHERWISE, CEILING/PENDANT MOUNTED EXIT SIGNS SHALL BE SUSPENDED TO 12'-0" AFF IN AREAS OPEN TO STRUCTURE, AT BOTTOM OF BAR JOISTS IN BACKROOM AREAS AND ON FINISHED CEILING WHERE APPLICABLE, UNLESS NOTED OTHERWISE. EXIT SIGNS SHALL BE READILY VISIBLE FROM DIRECTION OF EGRESS TRAVEL. COORDINATE FINAL EXIT SIGN LOCATIONS WITH AHJ AND

3. SUSPEND STORAGE AND RECEIVING AREA LIGHT FIXTURES AS HIGH AS PRACTICABLE IN ORDER TO AVOID DAMAGE, UNLESS NOTED OTHERWISE, SUSPEND JUST BELOW PIPING, DUCTWORK, AND SIMILAR OBSTRUCTIONS WHERE NECESSARY TO AVOID SHADOWS. COORDINATE REQUIREMENTS WITH OWNER AND OTHER DISCIPLINES PRIOR TO INSTALLATION.

4. PROVIDE LABEL AT EACH MANUAL LIGHT SWITCH INDICATING THE LIGHT FIXTURE(S) THAT THE SWITCH CONTROLS AND THE RESPECTIVE "PNLBD-CKT#" DESIGNATION. A SINGLE LIGHT SWITCH FOR A SMALL ROOM DOES NOT NEED TO INDICATE THE SPACE CONTROLLED SINCE IT IS INTUITIVELY OBVIOUS. COORDINATE LABEL REQUIREMENTS WITH THE OWNER PRIOR TO INSTALLATION. REFER TO THE SPECIFICATIONS FOR MORE INFORMATION.

5. ALL REMOTELY LOCATED LIGHT FIXTURE POWER SUPPLIES SHALL BE LOCATED IN AN ACCESSIBLE LOCATION WITH PROPER VENTILATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. CONCEAL DEVICES AND RELATED WIRING FROM VIEW PROVIDE ENCOSURE IF REQUIRED, COORDINATE LOCATION AND ENCLOSURE TYPE WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.

ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

1" = 80'-0"

SITE ELECTRICAL GENERAL NOTES:

- REFER TO CIVIL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. COORDINATE THE FINAL LOCATION OF ALL SITE LIGHTING POLES, SIGNAGE, UNDERGROUND UTILITIES, CONDUITS, CIRCUITRY, TRANSFORMERS AND OTHER EQUIPMENT WITH CIVIL DRAWINGS, LANDSCAPING DRAWINGS AND OWNER PRIOR TO INSTALLATION.
- PRIOR TO INSTALLATION.

 2. COORDINATE ALL SITE ELECTRICAL REQUIREMENTS
 WITH EQUIPMENT MANUFACTURER INFORMATION AND
 OTHER TRADES AND ADJUST ELECTRICAL

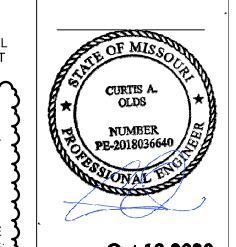
PROVISIONS AS REQUIRED TO MEET REQUIREMENTS.

- 3. SITE ELECTRICAL CONDUITS SHALL BE 1" MINIMUM, UNLESS NOTED OTHERWISE. WHERE PRACTICABLE, ALL SITE ELECTRICAL CONDUITS SHALL BE INSTALLED A MINIMUM OF 24" BELOW GRADE, UNLESS NOTED OTHERWISE. COORDINATE FINAL CONDUIT ROUTING WITH EXISTING OBSTRUCTIONS AND OTHER TRADES AND ADJUST AS NECESSARY.
- 4. CAP AND MARK ALL UNDERGROUND CONDUITS PROVIDED FOR FUTURE USE AND INCLUDE PULL STRINGS. PROVIDE DIMENSIONED LOCATIONS OF TERMINATION POINTS ON AS-BUILT DRAWINGS AND SUBMIT TO OWNER.
- 5. MINIMUM WIRE SIZE FOR SITE ELECTRICAL CIRCUITS SHALL BE #10 AWG CU, UNLESS NOTED OTHERWISE. ALL SITE ELECTRICAL BRANCH CIRCUIT WIRING SHALL BE SIZED SUCH THAT THE MAXIMUM BRANCH CIRCUIT VOLTAGE DROP IS LESS THAN 3 PERCENT.

 6. PROVIDE SPLICE AND PULL BOXES FOR SITE
- LIGHTING, SITE ELECTRICAL POWER, AND LOW VOLTAGE CABLING TO LIMIT MAXIMUM CONDUIT RUN TO 300'. PLACE BOXES IN A PLANTER AREA CLEAR OF VEGETATION WHEREVER PRACTICAL; (COORDINATE FINAL LOCATION WITH CIVIL, LANDSCAPE CONTRACTOR AND OWNER). BOXES SHALL BE SUITABLE FOR LOCATION AND PROPERLY SIZED FOR QUANTITY AND SIZE OF CONDUITS IN AND OUT AND SHALL BE MARKED "ELECTRICAL". NOT ALL OF THESE BOXES ARE SHOWN ON SITE ELECTRICAL DRAWINGS; CONTRACTOR SHALL PROVIDE LOCATION ON AS-BUILT DRAWINGS AND SUBMIT TO OWNER. SPLICE BOX SHALL BE APPROPRIATE FOR LOCATION AND SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. SPLICE BOX SHALL HAVE A MINIMUM NOMINAL SIZE OF 12"X12"X12", SHALL BE AN OPEN BOTTOM NRTL LISTED UNDERGROUND ENCLOSURE, AND SHALL AT A MINIMUM BE TIER 15 TRAFFIC RATED.

CONSTRUCTION
AS NOTED ON PLANS REVIES
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

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EXPIRES 12/31/2020

EES SUMMIT MIDDLE SCHOOL #4

PACKAGE 3 - BUILDING & SITE

REVISIONS
ADDENDUM 002 10/19/20

10/08/20

13-20102-00

ELECTRICAL SITE
PLAN - OVERALL

E1.0

CONSTRUCTION

LEE'S SUMMIT, MISSOURI

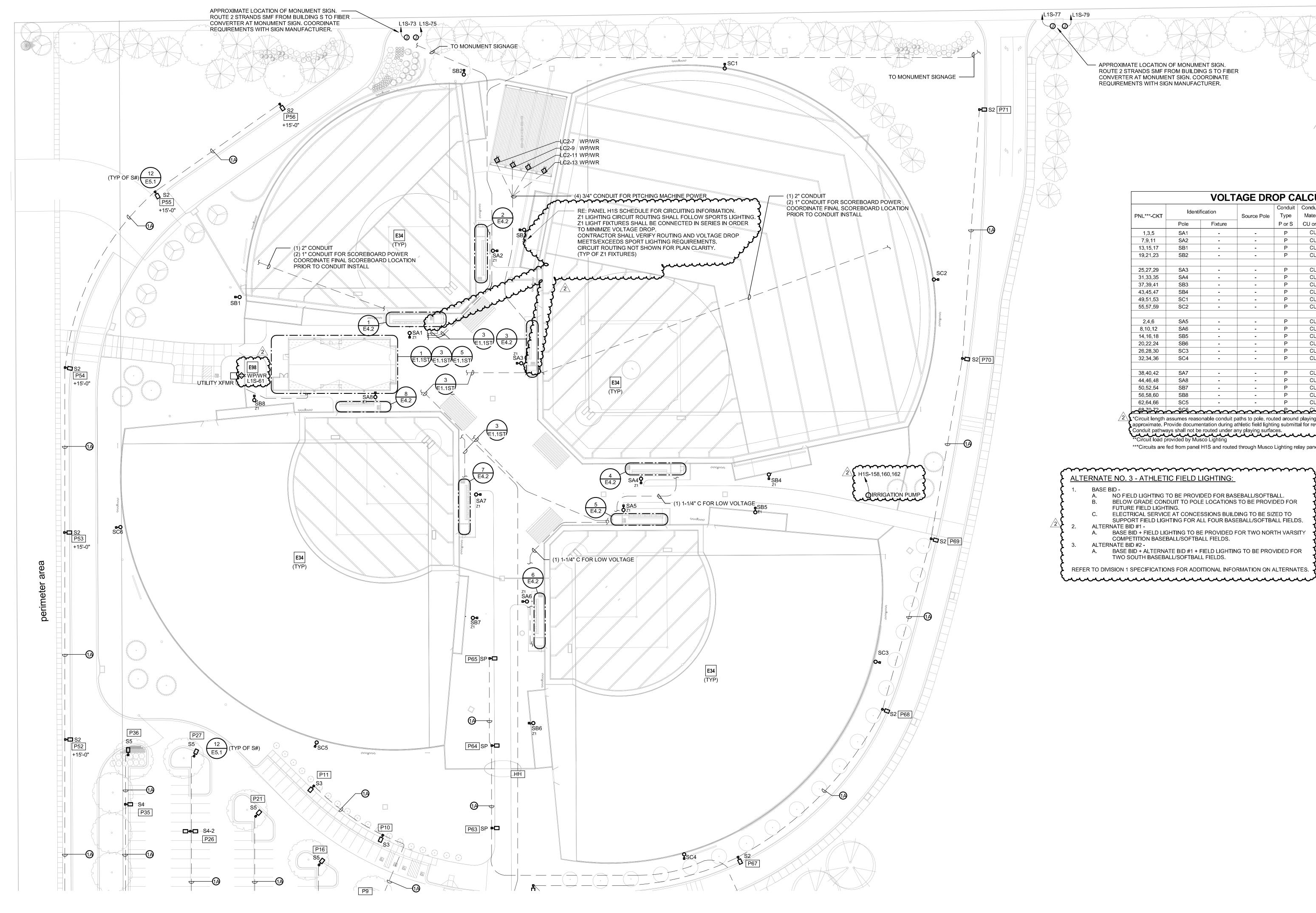
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PACKAGE 3 - BUILDING & 10/08/20 REVISIONS ADDENDUM 002

13-20102-00 **ELECTRICAL SITE**

PLAN - AREA 1

E1.01



A. NO FIELD LIGHTING TO BE PROVIDED FOR BASEBALL/SOFTBALL. BELOW GRADE CONDUIT TO POLE LOCATIONS TO BE PROVIDED FOR FUTURE FIELD LIGHTING. ELECTRICAL SERVICE AT CONCESSIONS BUILDING TO BE SIZED TO SUPPORT FIELD LIGHTING FOR ALL FOUR BASEBALL/SOFTBALL FIELDS. ALTERNATE BID #1 -A. BASE BID + FIELD LIGHTING TO BE PROVIDED FOR TWO NORTH VARSITY COMPETITION BASEBALL/SOFTBALL FIELDS. ALTERNATE BID #2 -A. BASE BID + ALTERNATE BID #1 + FIELD LIGHTING TO BE PROVIDED FOR TWO SOUTH BASEBALL/SOFTBALL FIELDS. REFER TO DIVISION 1 SPECIFICATIONS FOR ADDITIONAL INFORMATION ON ALTERNATES.

***Circuits are fed from panel H1S and routed through Musco Lighting relay panels.

PNL***-CKT

13,15,17

19,21,23

31,33,35

43,45,47

49,51,53

8,10,12

32,34,36

44,46,48 50,52,54 Pole Fixture

VOLTAGE DROP CALCULATIONS - ATHLETIC LIGHTING

Conduit pathways shall not be routed under any playing surfaces.

**Circuit load provided by Musco Lighting

 λ

E98 PROVIDE PEDESTAL MOUNTED RECEPTACLE TO SERVE

ADDITIONAL INFORMATION. TYPICAL OF SA#, SB#, AND SC#

IRRIGATION CONTROLLER, COORDINATE LOCATION WITH ARCHITECT.

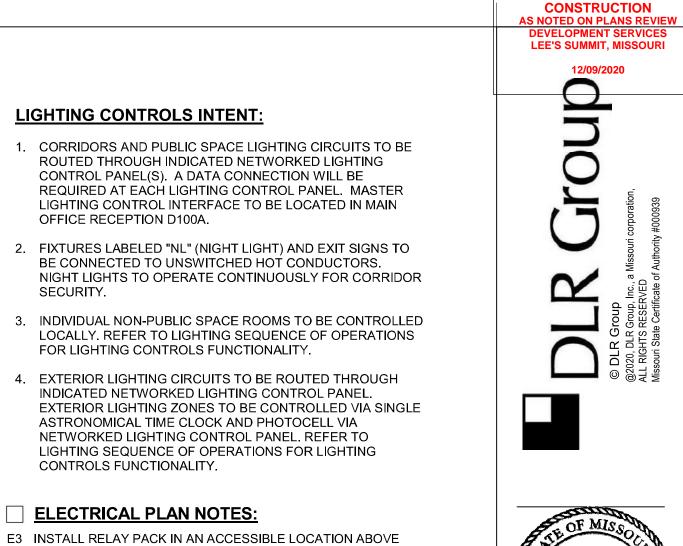
E34 RE: VOLTAGE DROP AND PANEL SCHEDULES FOR

ELECTRICAL PLAN NOTES:

ATHLETIC FIELD LIGHTING FIXTURES.

*Circuit length assumes reasonable conduit paths to pole, routed around playing field, 90-degree turns, and 70' for maximum pole height. Circuit length shall be assumed as approximate. Provide documentation during athletic field lighting submittal for review - contractor shall update circuit length and confirm no circuits exceed 2.8% voltage drop.

1" = 40'-0"



LIGHTING CONTROLS INTENT:

OFFICE RECEPTION D100A.

CONTROLS FUNCTIONALITY.

FOR LIGHTING CONTROLS FUNCTIONALITY.

SECURITY.

RELEASE FOR

CURTIS A. OLDS

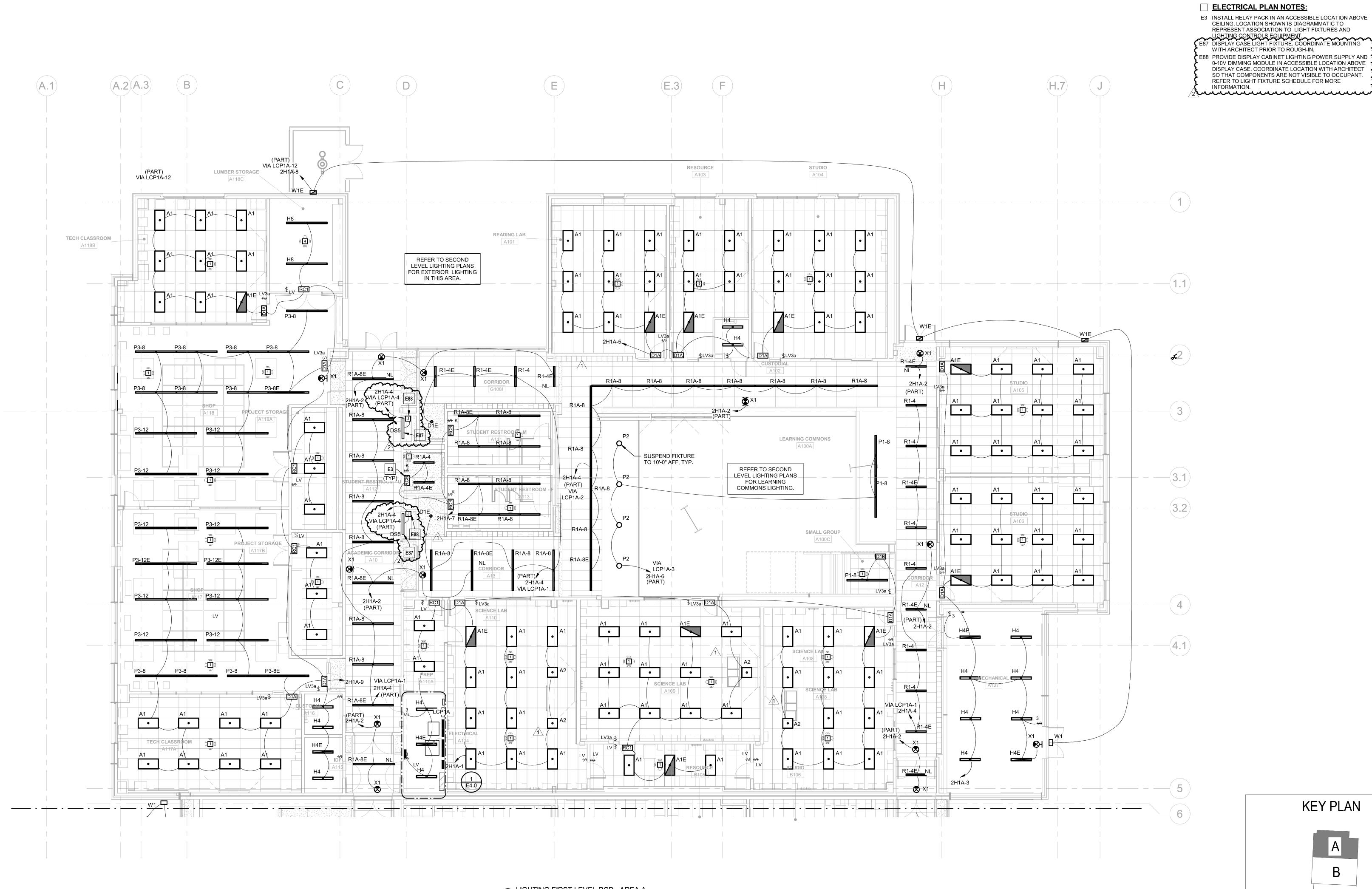
LICENSE # PE-2018036640

PACKAGE 3 - BUILDING &

KEY PLAN

13-20102-00 LIGHTING FIRST LEVEL RCP -AREA A

E1.1A



LIGHTING CONTROLS INTENT:

OFFICE RECEPTION D100A.

SECURITY.

ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL(S). A DATA CONNECTION WILL BE REQUIRED AT EACH LIGHTING CONTROL PANEL. MASTER LIGHTING CONTROL INTERFACE TO BE LOCATED IN MAIN

BE CONNECTED TO UNSWITCHED HOT CONDUCTORS.

4. EXTERIOR LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL.

FOR LIGHTING CONTROLS FUNCTIONALITY.

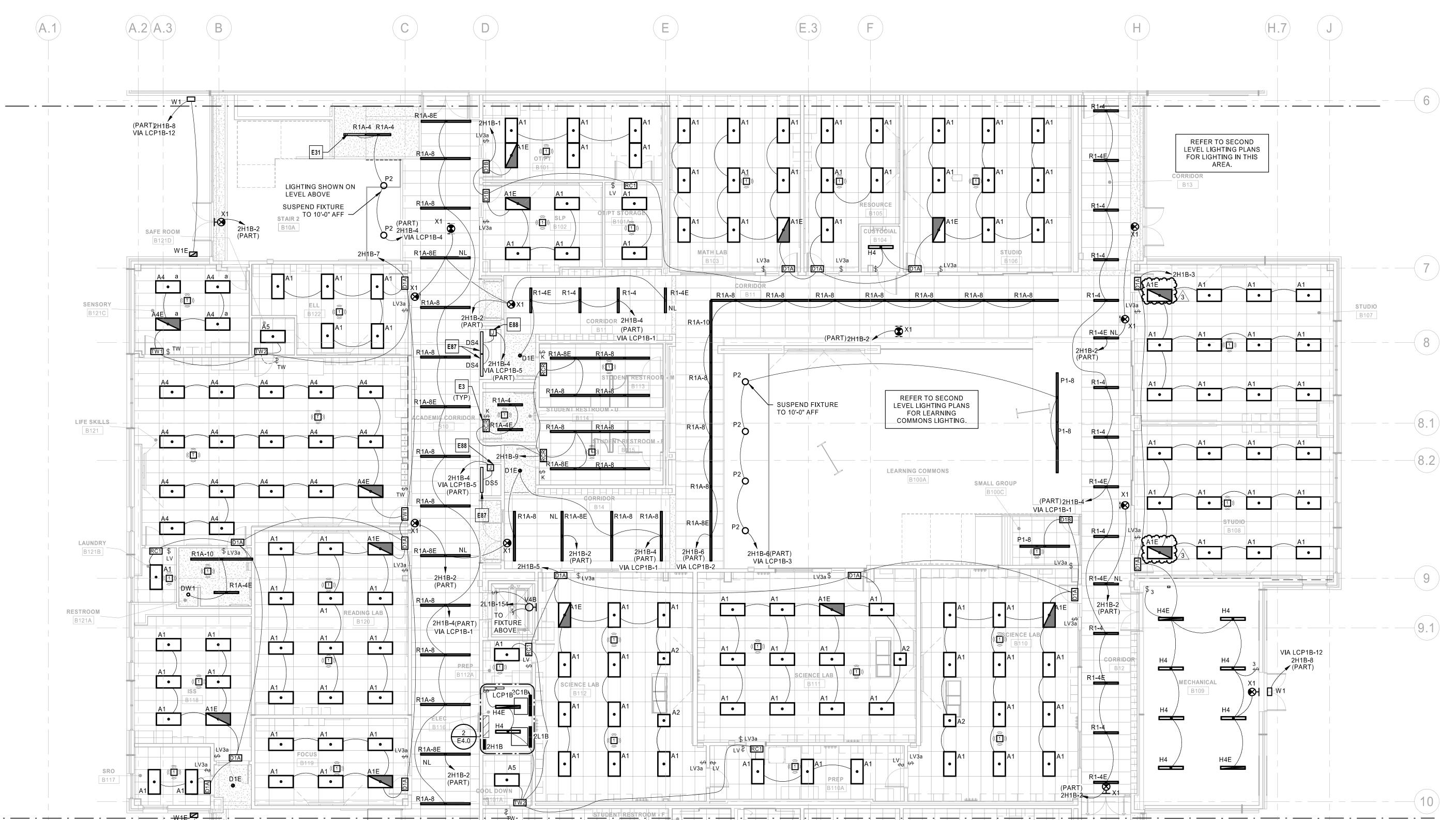
RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

LIGHTING FIRST LEVEL RCP -AREA B

E1.1B

EXTERIOR LIGHTING ZONES TO BE CONTROLLED VIA SINGLE ASTRONOMICAL TIME CLOCK AND PHOTOCELL VIA NETWORKED LIGHTING CONTROL PANEL. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY. **ELECTRICAL PLAN NOTES:** E3 INSTALL RELAY PACK IN AN ACCESSIBLE LOCATION ABOVE CEILING. LOCATION SHOWN IS DIAGRAMMATIC TO REPRESENT ASSOCIATION TO LIGHT FIXTURES AND LIGHTING CONTROLS EQUIPMENT. E31 RECESSED LINEAR FIXTURE TO BE INSTALLED IN ANGLED PORTION OF CEILING UNDERNEATH STAIRS. COORDINATE INSTALLATION REQUIREMENTS FOR TRANSITION OF CEILING FROM FLAT TO ANGLED WITH MANUFACTURER'S SPECIFICATIONS. E87 DISPLAY CASE LIGHT FIXTURE. COORDINATE MOUNTING WITH ARCHITECT PRIOR TO ROUGH-IN. E88 PROVIDE DISPLAY CABINET LIGHTING POWER SUPPLY AND 0-10V DIMMING MODULE IN ACCESSIBLE LOCATION ABOVE DISPLAY CASE. COORDINATE LOCATION WITH ARCHITECT SO THAT COMPONENTS ARE NOT VISIBLE TO OCCUPANT. REFER TO LIGHT FIXTURE SCHEDULE FOR MORE INFORMATION.

1/8" = 1'-0"



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

CURTIS A. OLDS 13 2020

LICENSE # PE-2018036640

PACKAGE 3 - BUILDING & 10/08/20 REVISIONS

ADDENDUM 001

13-20102-00 LIGHTING FIRST LEVEL RCP -AREA C

KEY PLAN

E1.1C

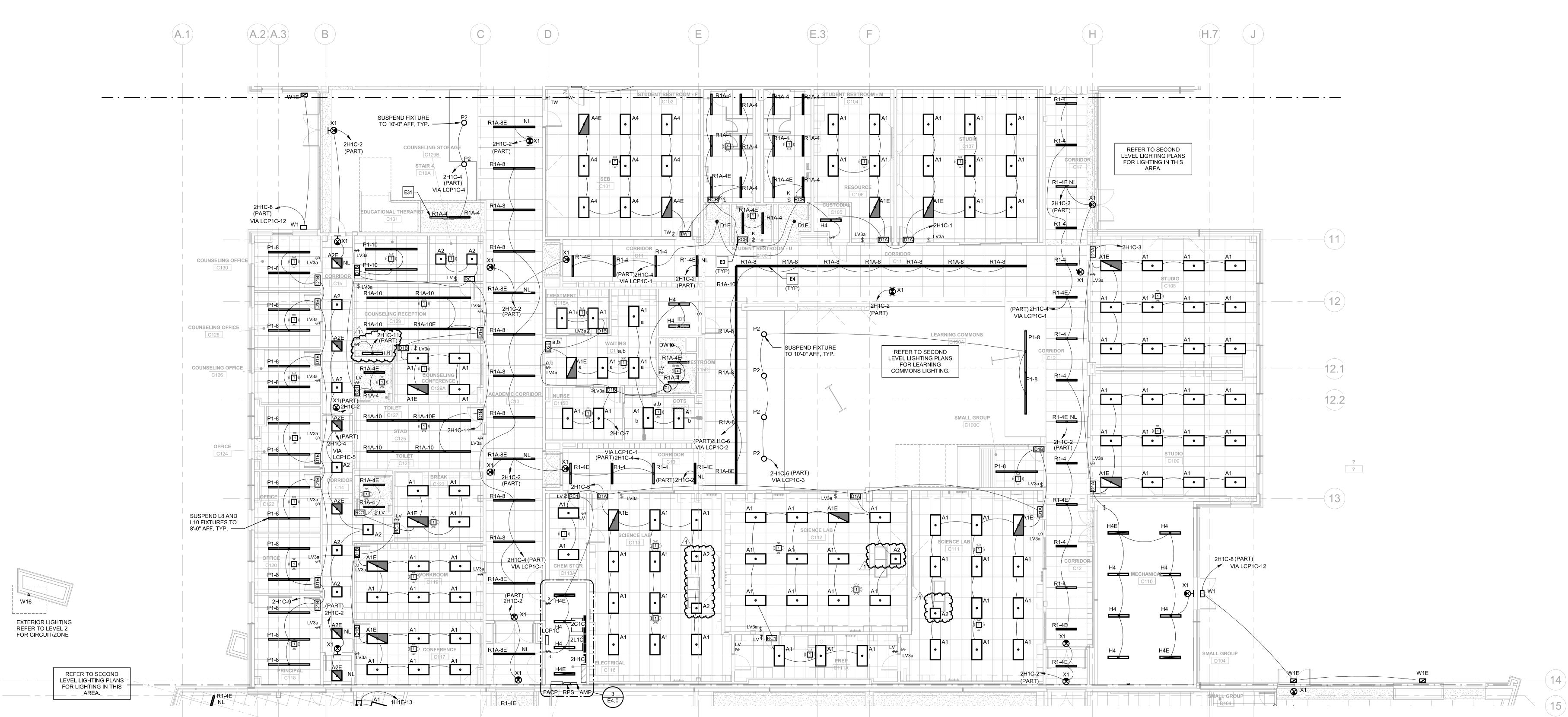


SPECIFICATIONS.

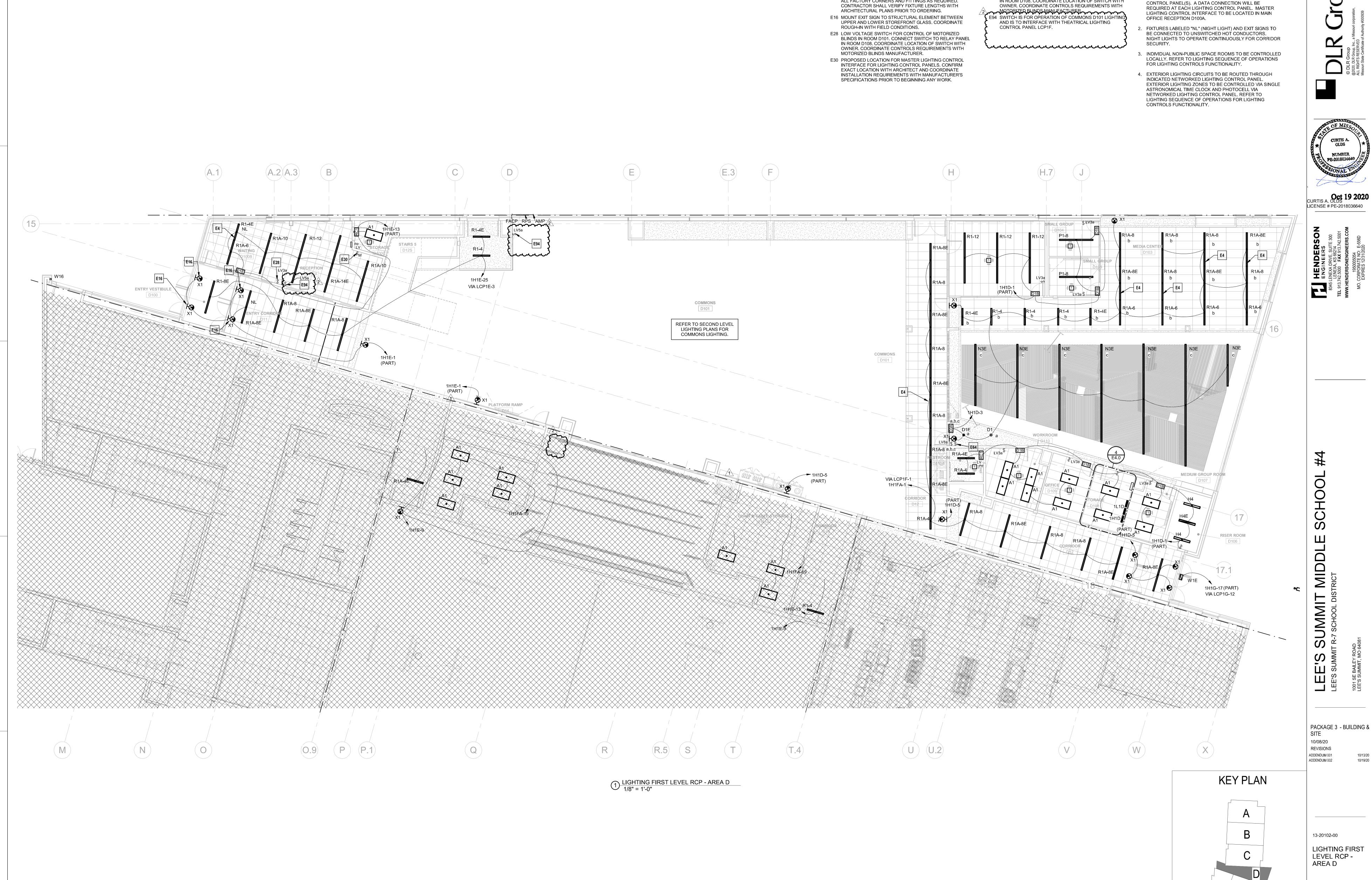
- E3 INSTALL RELAY PACK IN AN ACCESSIBLE LOCATION ABOVE CEILING. LOCATION SHOWN IS DIAGRAMMATIC TO REPRESENT ASSOCIATION TO LIGHT FIXTURES AND LIGHTING CONTROLS EQUIPMENT.
- E4 SUSPENDED OR RECESSED LINEAR FIXTURES SHALL BE PROVIDED AS A SINGLE CONTINUOUS FIXTURE. PROVIDE ARCHITECTURAL PLANS PRIOR TO ORDERING.
- ALL FACTORY CORNERS AND FITTINGS AS REQUIRED. CONTRACTOR SHALL VERIFY FIXTURE LENGTHS WITH E31 RECESSED LINEAR FIXTURE TO BE INSTALLED IN ANGLED PORTION OF CEILING UNDERNEATH STAIRS. COORDINATE

INSTALLATION REQUIREMENTS FOR TRANSITION OF CEILING FROM FLAT TO ANGLED WITH MANUFACTURER'S

- SECURITY.
- 3. INDIVIDUAL NON-PUBLIC SPACE ROOMS TO BE CONTROLLED LOCALLY. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY.
- 4. EXTERIOR LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL. EXTERIOR LIGHTING ZONES TO BE CONTROLLED VIA SINGLE ASTRONOMICAL TIME CLOCK AND PHOTOCELL VIA NETWORKED LIGHTING CONTROL PANEL. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY



1) LIGHTING FIRST LEVEL RCP - AREA C 1/8" = 1'-0"



☐ ELECTRICAL PLAN NOTES:

E4 SUSPENDED OR RECESSED LINEAR FIXTURES SHALL BE

PROVIDED AS A SINGLE CONTINUOUS FIXTURE. PROVIDE

ALL FACTORY CORNERS AND FITTINGS AS REQUIRED.

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

LIGHTING CONTROLS INTENT:

1. CORRIDORS AND PUBLIC SPACE LIGHTING CIRCUITS TO BE

ROUTED THROUGH INDICATED NETWORKED LIGHTING

ELECTRICAL PLAN NOTES:

E64 LOW VOLTAGE SWITCH FOR CONTROL OF MOTORIZED

BLINDS IN ROOM D103, CONNECT SWITCH TO RELAY PANEL

IN ROOM D108. COORDINATE LOCATION OF SWITCH WITH

RELEASE FOR CONSTRUCTION

E1.1D

- 1. CORRIDORS AND PUBLIC SPACE LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL(S). A DATA CONNECTION WILL BE REQUIRED AT EACH LIGHTING CONTROL PANEL. MASTER LIGHTING CONTROL INTERFACE TO BE LOCATED IN MAIN OFFICE RECEPTION D100A.
- 2. FIXTURES LABELED "NL" (NIGHT LIGHT) AND EXIT SIGNS TO BE CONNECTED TO UNSWITCHED HOT CONDUCTORS. NIGHT LIGHTS TO OPERATE CONTINUOUSLY FOR CORRIDOR
- SECURITY. 3. INDIVIDUAL NON-PUBLIC SPACE ROOMS TO BE CONTROLLED LOCALLY. REFER TO LIGHTING SEQUENCE OF OPERATIONS
- FOR LIGHTING CONTROLS FUNCTIONALITY. 4. EXTERIOR LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL. EXTERIOR LIGHTING ZONES TO BE CONTROLLED VIA SINGLE ASTRONOMICAL TIME CLOCK AND PHOTOCELL VIA

NETWORKED LIGHTING CONTROL PANEL. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING

ELECTRICAL PLAN NOTES:

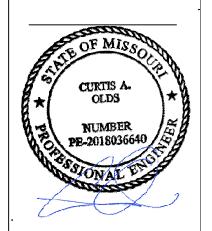
CONTROLS FUNCTIONALITY.

- E4 SUSPENDED OR RECESSED LINEAR FIXTURES SHALL BE PROVIDED AS A SINGLE CONTINUOUS FIXTURE, PROVIDE ALL FACTORY CORNERS AND FITTINGS AS REQUIRED. CONTRACTOR SHALL VERIFY FIXTURE LENGTHS WITH
- ARCHITECTURAL PLANS PRIOR TO ORDERING. E6 KEYED SWITCH, IN VESTIBULE F102 AND ASSOCIATED OCCUPANCY SENSORS, TO CONTROL LIGHTS IN VESTIBULE
- F102 AND LEVEL 1 & 2 ADJACENT STAIRWELL E1 GO6. E8 LOCKER ROOM KEYED SWITCH(ES) AND OCCUPANCY SENSORS TO CONTROL ALL LIGHTING ASSOCIATED WITH EACH LOCKER ROOMS: BOTH VESTIBULES, LOCKER ROOM AND RESTROOM.

LIGHTING CONTROLS INTENT:

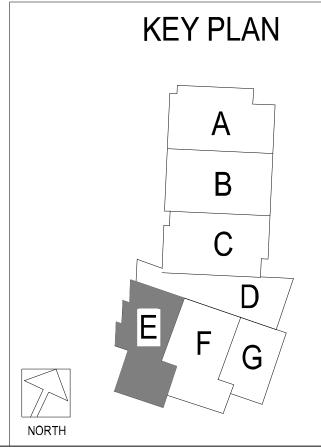
RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI





CURTIS A. OLDS 13 2020 LICENSE # PE-2018036640

PACKAGE 3 - BUILDING & SITE



13-20102-00 LIGHTING FIRST LEVEL RCP -AREA E

E1.1E

- ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL(S). A DATA CONNECTION WILL BE REQUIRED AT EACH LIGHTING CONTROL PANEL. MASTER LIGHTING CONTROL INTERFACE TO BE LOCATED IN MAIN OFFICE RECEPTION D100A.
- 2. FIXTURES LABELED "NL" (NIGHT LIGHT) AND EXIT SIGNS TO BE CONNECTED TO UNSWITCHED HOT CONDUCTORS.

LIGHTING TO BE ROUTED THROUGH LIGHTING CONTROL

OPERATION IS TO BE CONTROLLED VIA TIME SWITCH CONTROLS AND MASTER LIGHTING CONTROL INTERFACE(S). PROVIDE AN ADDITIONAL INTERFACE FOR JUST THE COMMONS LIGHTING LOCATED ON PLATFORM

LIGHTING CONTROLS INTENT:

1. CORRIDORS AND PUBLIC SPACE LIGHTING CIRCUITS TO BE

NIGHT LIGHTS TO OPERATE CONTINUOUSLY FOR CORRIDOR

3. INDIVIDUAL NON-PUBLIC SPACE ROOMS TO BE CONTROLLED LOCALLY. REFER TO LIGHTING SEQUENCE OF OPERATIONS

FOR LIGHTING CONTROLS FUNCTIONALITY. 4. EXTERIOR LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL. EXTERIOR LIGHTING ZONES TO BE CONTROLLED VIA SINGLE ASTRONOMICAL TIME CLOCK AND PHOTOCELL VIA NETWORKED LIGHTING CONTROL PANEL. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING

ELECTRICAL PLAN NOTES:

CONTROLS FUNCTIONALITY.

E6 KEYED SWITCH, IN VESTIBULE F102 AND ASSOCIATED OCCUPANCY SENSORS, TO CONTROL LIGHTS IN VESTIBULE E102 AND LEVEL 1 & 2 AD JACENT STAIRWELL E1 GO6.

E10 LOW VOLTAGE LIGHT SWITCHES FOR COMPETITION GYM F101 TO PROVIDE ON/OFF AND DIMMING FUNCTIONALITY FOR GYMNASIUM LIGHT FIXTURES. LIGHT SWITCH TO INTERFACE WITH LIGHTING CONTROL PANEL LCP1F LOCATED IN PLATFORM STORAGE D112A. CIRCUITS FOR GYMNASIUM LIGHT FIXTURES TO BE ROUTED THROUGH DIMMING MODULES IN LIGHTING CONTROL PANEL LCP1F AS INTERFACE FOR LIGHTING CONTROL PANELS. CONFIRM EXACT LOCATION WITH ARCHITECT AND COORDINATE INSTALLATION REQUIREMENTS WITH MANUFACTURER'S SPECIFICATIONS PRIOR TO BEGINNING ANY WORK. E32 STAGE AREA LIGHTING CONTROL SWITCH SHOWN ON E1.1F.

E33 COMMONS D101 LIGHTING TO BE ROUTED THROUGH NETWORKED LIGHTING CONTROL PANEL LCP1F. LIGHTING

RELEASE FOR CONSTRUCTION

LEE'S SUMMIT, MISSOURI

Oct 19 2020 LICENSE # PE-2018036640

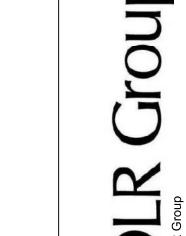
PACKAGE 3 - BUILDING & SITE

REVISIONS ADDENDUM 001 ADDENDUM 002

KEY PLAN Α

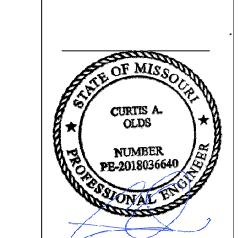
13-20102-00 LIGHTING FIRST LEVEL RCP -AREA F

E1.1F

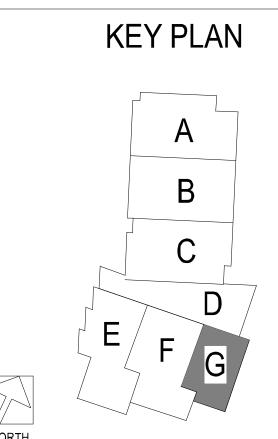


RELEASE FOR CONSTRUCTION

LEE'S SUMMIT, MISSOURI

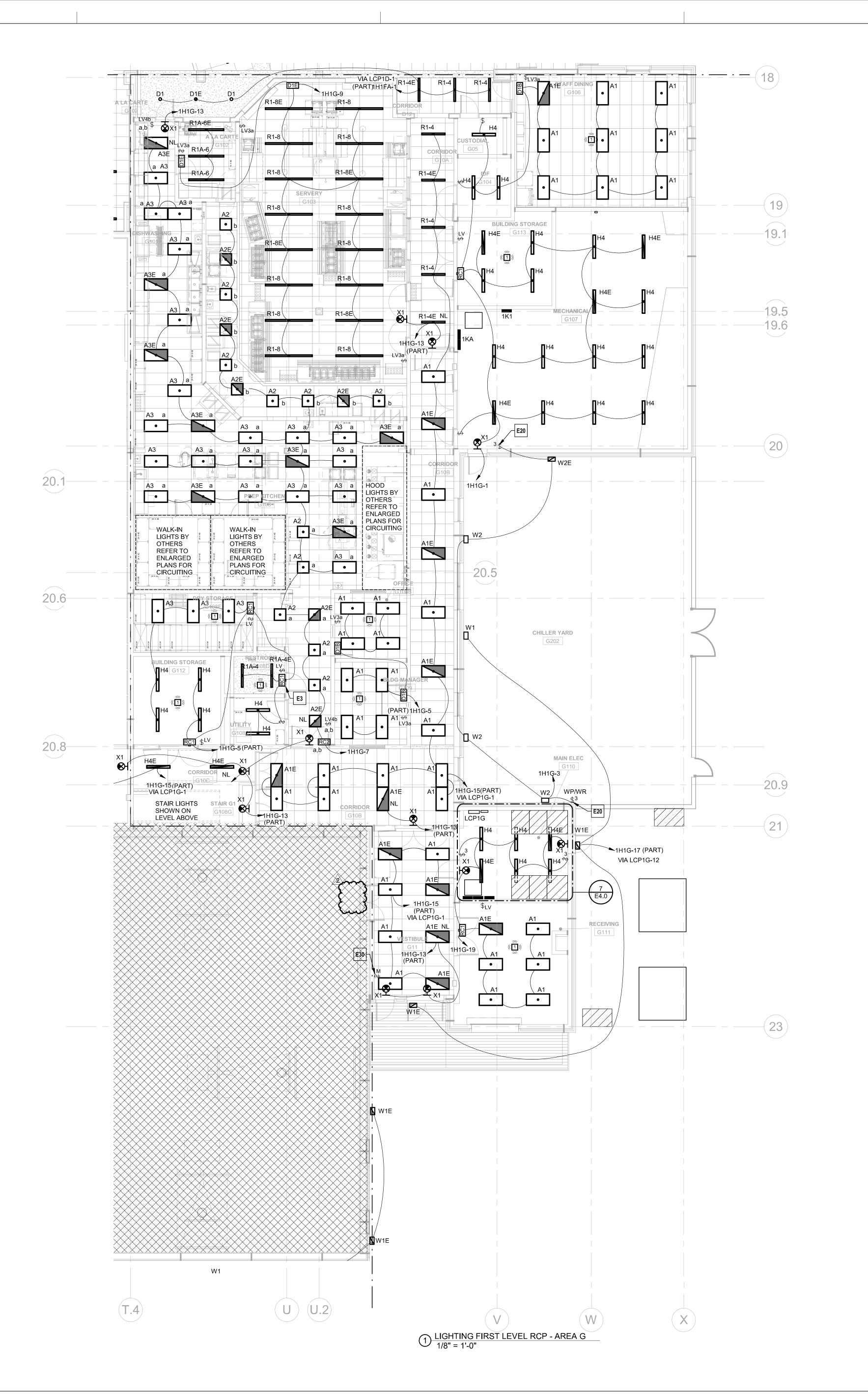


LICENSE # PE-2018036640



13-20102-00 LIGHTING FIRST LEVEL RCP -AREA G

E1.1G



LOCATION PANEL CIRCUIT NOTES

89,91,93

103,105,107

111,113,115

LVL1 - AREA S L1S 49,51 B,C

LVL1 - AREA S H1S 127,129,131

H1S

H1S

H1S

H1S

H1S

H1S

H1S

LVL1 - AREA S H1S 119,121,123

LVL1 - AREA S L1S

LVL1 - AREA S L1S LVL1 - AREA S L1S

LVL1 - AREA S L1S

LVL1 - AREA S

LVL1 - AREA S H1S

1. COORDINATE ALL FINAL CONNECTIONS WITH MECHANICAL CONTRACTOR

3. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH DIVISION 22 AND 23

SUBMITTED EQUIPMENT THAT DIFFERS FROM THE BASIS OF DESIGN.

A. DISCONNECTING MEANS (FRACTIONAL HP SWITCH, (FUSED) DISCONNECT

B. PROVIDE UNIT MOUNTED FRACTIONAL HP MOTOR RATED SWITCH AS

SWITCH) AND/OR CONTROLLER (STARTER, VFD) PROVIDED BY DIVISION 23

C. INDOOR UNIT OF SPLIT SYSTEM POWERED VIA OUTDOOR CONDENSING UNIT.

D. DISCONNECTING MEANS PROVIDED VIA CORD AND PLUG CONNECTION. E. LINE VOLTAGE POWER CONNECTED TO DIVISION 23 PROVIDED LOW VOLTAGE, UNIT MOUNTED, EQUIPMENT TRANSFORMER. RE: MECHANICAL PLANS FOR

REFER TO MANUFACTURER'S INSTRUCTIONS FOR PROPER INSTALLATION.

F. DISCONNECTING MEANS PROVIDED BY LOCKABLE CIRCUIT BREAKER, RE: ONE-

G. EQUIPMENT PROVIDED BY DIVISION 23 CONTRACTOR, INSTALLED BY DIVISION 26 CONTRACTOR. CONTRACTOR SHALL CONFIRM CONTROLLER/EQUIPMENT

H. MAKE UP AIR UNIT HAS TWO POWER CONNECTIONS. CIRCUIT AS SHOWN ON PLAN. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER.

I. DIVISION 26 CONTRACTOR TO PROVIDE ALL INTERCONNECTION BETWEEN KITCHEN EXHAUST HOOD AND ROOF MOUNTED EQUIPMENT TO PROVIDE A

J. DIVISION 26 CONTRACTOR TO PROVIDE ALL INTERCONNECTION BETWEEN DISHWASHER EXHAUST HOOD AND ROOF MOUNTED EQUIPMENT TO PROVIDE

K. DIVISION 26 CONTRACTOR TO PROVIDE NON-FUSED/FUSED SWITCH SIZED PER

L. PROVIDE AN INTEGRAL HORSEPOWER MANUAL CONTROLLER WITH AUXILIARY CONTACT TO PROVIDE DISCONNECTING MEANS AND INTERFACE WITH BAS

A FULLY FUNCTIONAL SYSTEM. COORDINATE REQUIREMENTS WITH

EQUIPMENT MANUFACTURER'S SPECIFICATIONS AND NEC.

SYSTEM. COORDINATE REQUIREMENTS WITH BAS SYSTEM.

E8 LOCKER ROOM KEYED SWITCH(ES) AND OCCUPANCY SENSORS TO CONTROL ALL LIGHTING ASSOCIATED WITH

PUMP TIMER TO BE FED FROM SAME CIRCUIT AS CIRCULATION PUMP. COORDINATE INSTALLATION REQUIREMENTS WITH EQUIPMENT MANUFACTURER'S

E86 PROVIDE POWER CONNECTION TO DOOR HARDWARE POWER SUPPLY. COORDINATE EXACT LOCATION AND

HARDWARE MANUFACTURER PRIOR TO ROUGH-IN.

EACH LOCKER ROOMS: BOTH VESTIBULES, LOCKER ROOM

AND RESTROOM.

(E39 CONTRACTOR TO PROVIDE CONNECTION FOR CIRCULATION

BE CONTROLLED BY COMBINATION OF PHOTOCELL AND ASTRONOMICAL TIME CLOCK. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR PROGRAMMING

ROUGH-IN REQUIREMENTS WITH ARCHITECT AND DOOR

FULLY FUNCTIONAL SYSTEM. COORDINATE REQUIREMENTS WITH

CONTRACTORS TO PROVIDE EXACT POWER REQUIREMENTS FOR ALL

2. REFER TO MECHANICAL SCHEDULES FOR ADDITIONAL INFORMATION WITHIN DIVISION 26 SCOPE SUCH AS INTERLOCKING WITH CONTROLS OR OTHER

LVL1 - AREA S LVL1 - AREA S

COMPUTER ROOM - INDOOR CR 14

Electric Storage Water Heater

Recirculation Pump

UNIT HEATER ELECTRIC

EUH 1

EUH 9

EUH 10

PRIOR TO ROUGH-INS.

DISCONNECTING MEANS.

ADDITIONAL REQUIREMENTS.

MANUFACTURER.

MANUFACTURER.

INFORMATION.

☐ ELECTRICAL PLAN NOTES:

CONTRACTOR OR FACTORY MOUNTED.

LINE DIAGRAM (E8.X) OR PANEL SCHEDULES (E6.X).

PAIRING WITH MECHANICAL PLANS AND SCHEDULES.

GENERAL NOTES:

EQUIPMENT.

COMPUTER ROOM - OUTDOOR CU 14

RELEASE FOR CONSTRUCTION

LEE'S SUMMIT, MISSOURI

CURTIS A. OLDS

LICENSE # PE-2018036640

PACKAGE 3 - BUILDING & 10/08/20 REVISIONS ADDENDUM 001

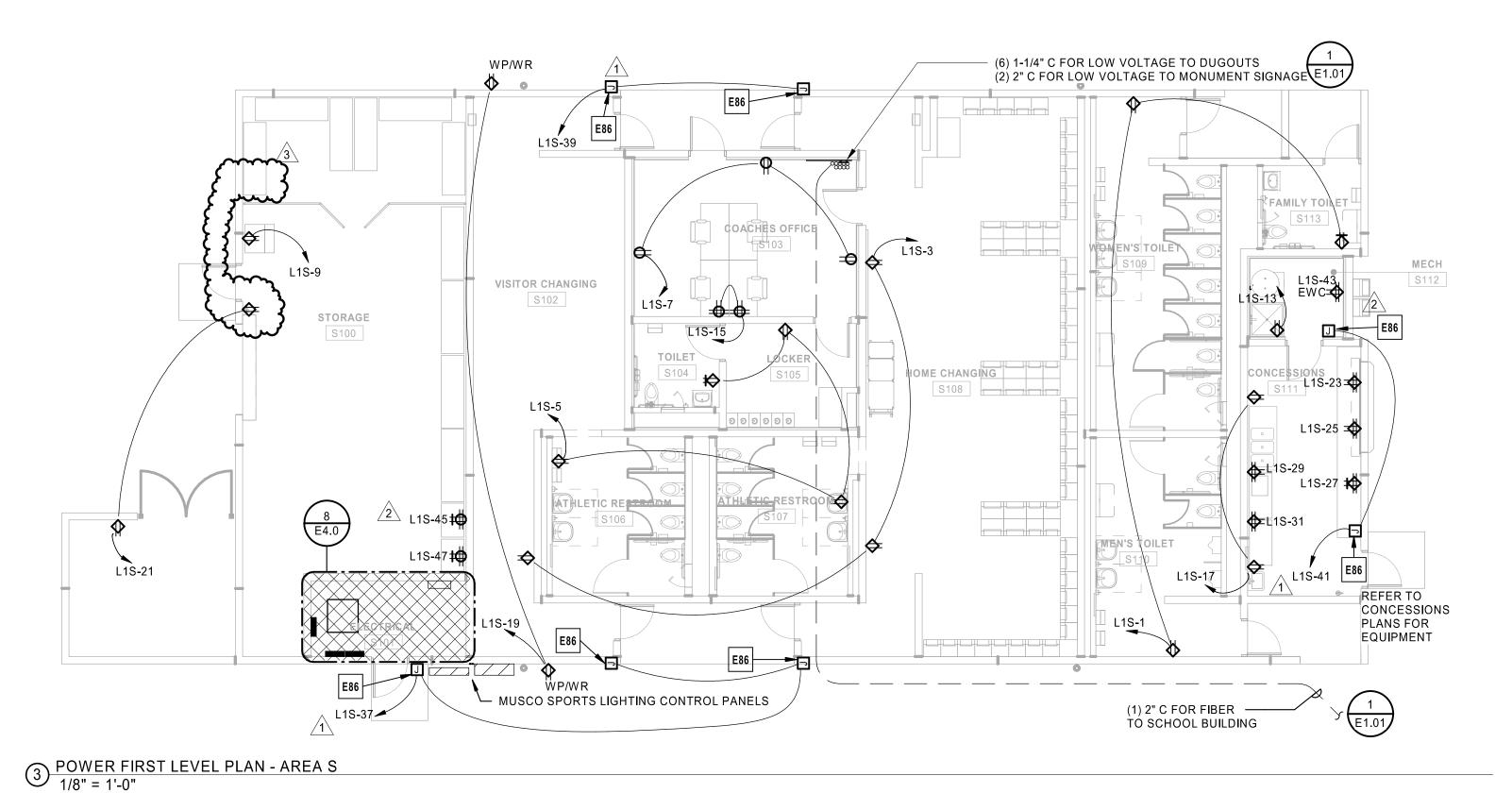
ADDENDUM 002

13-20102-00 ELECTRICAL FIRST LEVEL
PLANS - AREAS

E1.1ST

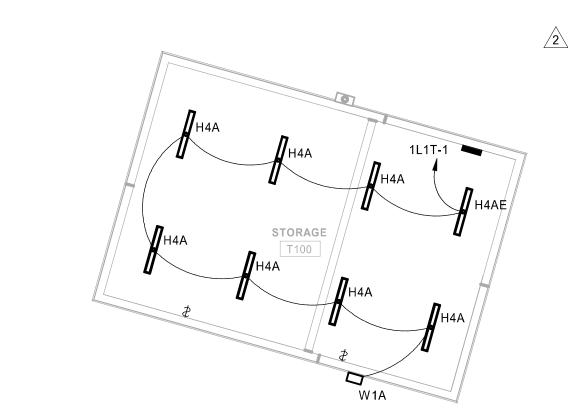
FAMILY TOILET DW1E LV3a • HOME CHANGING (TYP) H1S-87 ELECTRICAL S101

1/8" = 1'-0"

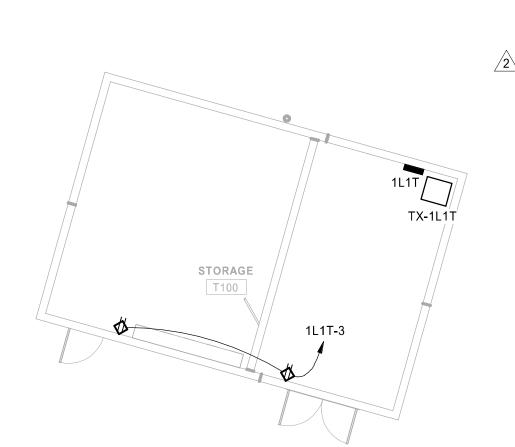


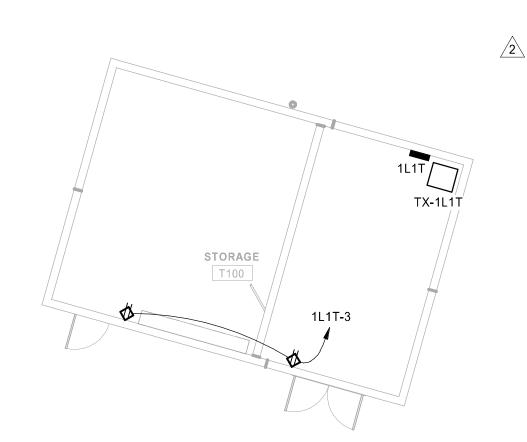
30/3/3R CU 14

5 EQUIPMENT CONNECTION FIRST LEVEL PLAN - AREA S
1/8" = 1'-0"



2 LIGHTING FIRST LEVEL RCP - AREA T 1/8" = 1'-0"



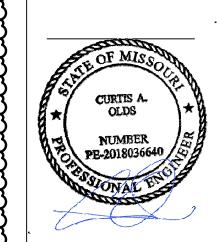


4 POWER FIRST LEVEL PLAN - AREA T 1/8" = 1'-0"

KEY PLAN

CONSTRUCTION

LEE'S SUMMIT, MISSOURI



CURTIS A. OLDS 19 2020 LICENSE # PE-2018036640

ELECTRICAL PLAN NOTES: E8 LOCKER ROOM KEYED SWITCH(ES) AND OCCUPANCY SENSORS TO CONTROL ALL LIGHTING ASSOCIATED WITH EACH LOCKER ROOMS: BOTH VESTIBULES, LOCKER ROOM

EQUIPMENT MANUFACTURER'S SPECIFICATIONS AND NEC.

SYSTEM. COORDINATE REQUIREMENTS WITH BAS SYSTEM.

 λ

LVL1 - AREA S L1S

LVL1 - AREA S L1S LVL1 - AREA S L1S

LVL1 - AREA S H1S

LVL1 - AREA S H1S

1. COORDINATE ALL FINAL CONNECTIONS WITH MECHANICAL CONTRACTOR

3. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH DIVISION 22 AND 23

CONTRACTORS TO PROVIDE EXACT POWER REQUIREMENTS FOR ALL

SUBMITTED EQUIPMENT THAT DIFFERS FROM THE BASIS OF DESIGN.

A. DISCONNECTING MEANS (FRACTIONAL HP SWITCH, (FUSED) DISCONNECT

B. PROVIDE UNIT MOUNTED FRACTIONAL HP MOTOR RATED SWITCH AS

SWITCH) AND/OR CONTROLLER (STARTER, VFD) PROVIDED BY DIVISION 23

INDOOR UNIT OF SPLIT SYSTEM POWERED VIA OUTDOOR CONDENSING UNIT.

F. DISCONNECTING MEANS PROVIDED BY LOCKABLE CIRCUIT BREAKER, RE: ONE-

G. EQUIPMENT PROVIDED BY DIVISION 23 CONTRACTOR, INSTALLED BY DIVISION 26 CONTRACTOR. CONTRACTOR SHALL CONFIRM CONTROLLER/EQUIPMENT

H. MAKE UP AIR UNIT HAS TWO POWER CONNECTIONS. CIRCUIT AS SHOWN ON PLAN. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER.

DIVISION 26 CONTRACTOR TO PROVIDE ALL INTERCONNECTION BETWEEN KITCHEN EXHAUST HOOD AND ROOF MOUNTED EQUIPMENT TO PROVIDE A

DIVISION 26 CONTRACTOR TO PROVIDE ALL INTERCONNECTION BETWEEN DISHWASHER EXHAUST HOOD AND ROOF MOUNTED EQUIPMENT TO PROVIDE

K. DIVISION 26 CONTRACTOR TO PROVIDE NON-FUSED/FUSED SWITCH SIZED PER

L. PROVIDE AN INTEGRAL HORSEPOWER MANUAL CONTROLLER WITH AUXILIARY CONTACT TO PROVIDE DISCONNECTING MEANS AND INTERFACE WITH BAS

FULLY FUNCTIONAL SYSTEM. COORDINATE REQUIREMENTS WITH

A FULLY FUNCTIONAL SYSTEM. COORDINATE REQUIREMENTS WITH

REFER TO MANUFACTURER'S INSTRUCTIONS FOR PROPER INSTALLATION.

D. DISCONNECTING MEANS PROVIDED VIA CORD AND PLUG CONNECTION. E. LINE VOLTAGE POWER CONNECTED TO DIVISION 23 PROVIDED LOW VOLTAGE, UNIT MOUNTED, EQUIPMENT TRANSFORMER. RE: MECHANICAL PLANS FOR

REFER TO MECHANICAL SCHEDULES FOR ADDITIONAL INFORMATION WITHIN

DIVISION 26 SCOPE SUCH AS INTERLOCKING WITH CONTROLS OR OTHER

LVL1 - AREA S L1S

LVL1 - AREA S

LVL1 - AREA S

LVL1 - AREA S

LVL1 - AREA S

LVL1 - AREA S LVL1 - AREA S

LVL1 - AREA S

LVL1 - AREA S

LVL1 - AREA S

COMPUTER ROOM - INDOOR CR 14

CU 14

Recirculation Pump

UNIT HEATER ELECTRIC

EUH 9 EUH 10

PRIOR TO ROUGH-INS.

DISCONNECTING MEANS.

ADDITIONAL REQUIREMENTS.

MANUFACTURER.

CONTRACTOR OR FACTORY MOUNTED.

LINE DIAGRAM (E8.X) OR PANEL SCHEDULES (E6.X).

PAIRING WITH MECHANICAL PLANS AND SCHEDULES.

GENERAL NOTES:

EQUIPMENT.

Electric Storage Water Heater

COMPUTER ROOM - OUTDOOR

LOCATION PANEL CIRCUIT NOTES

89,91,93

103,105,107

111,113,115

LVL1 - AREA S L1S 49,51 B,C

LVL1 - AREA S H1S 127,129,131

H1S

H1S

H1S

H1S

H1S

H1S

LVL1 - AREA S H1S 119,121,123

E39 CONTRACTOR TO PROVIDE CONNECTION FOR CIRCULATION PUMP TIMER TO BE FED FROM SAME CIRCUIT AS CIRCULATION PUMP. COORDINATE INSTALLATION REQUIREMENTS WITH EQUIPMENT MANUFACTURER'S BE CONTROLLED BY COMBINATION OF PHOTOCELL AND

SEQUENCE OF OPERATIONS FOR PROGRAMMING INFORMATION. 1 E86 PROVIDE POWER CONNECTION TO DOOR HARDWARE POWER SUPPLY. COORDINATE EXACT LOCATION AND ROUGH-IN REQUIREMENTS WITH ARCHITECT AND DOOR

HARDWARE MANUFACTURER PRIOR TO ROUGH-IN.

ASTRONOMICAL TIME CLOCK. REFER TO LIGHTING

2 LIGHTING FIRST LEVEL RCP - AREA T 1/8" = 1'-0"

FAMILY TOILET

FAMILY TOILET

REFER TO CONCESSIONS

PLANS FOR **EQUIPMENT**

(6) 1-1/4" C FOR LOW VOLTAGE TO DUGOUTS
(2) 2" C FOR LOW VOLTAGE TO MONUMENT SIGNAGE
(E1.01)

HOME CHANGING

HOME CHANGING

S108

L1S-1

(1) 2" C FOR FIBER

TÓ SCHOOL BUILDING

—

LV3a

COACHES OFFICE

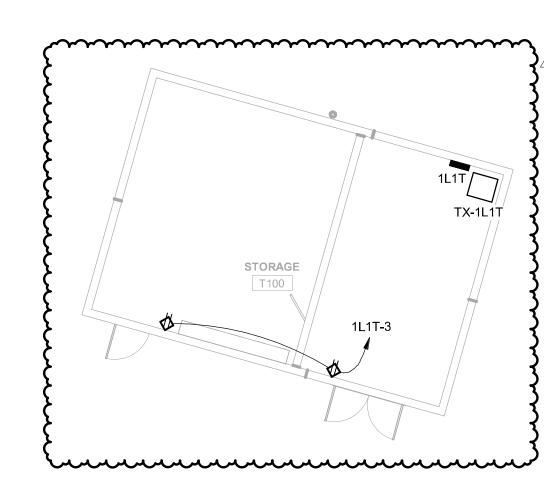
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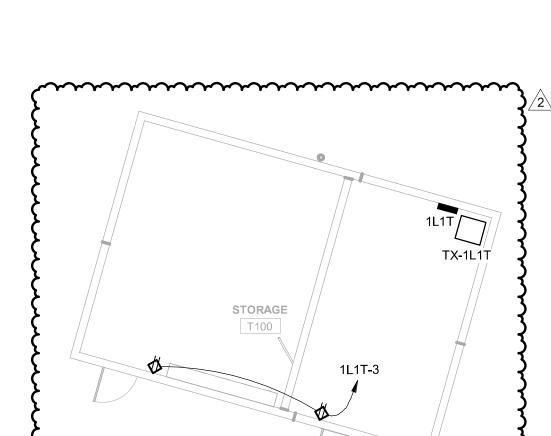
L1S-39

VISITOR CHANGING

S102

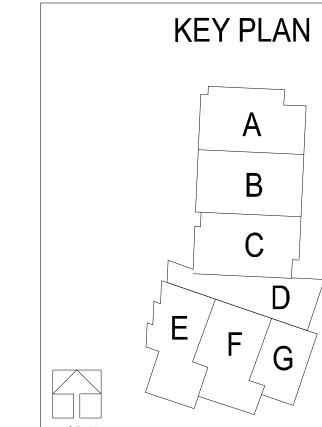
- MUSCO SPORTS LIGHTING CONTROL PANELS





POWER FIRST LEVEL PLAN - AREA T 1/8" = 1'-0"

PACKAGE 3 - BUILDING & 10/08/20 REVISIONS ADDENDUM 001 ADDENDUM 002



ELECTRICAL FIRST LEVEL PLANS - AREAS E1.1ST

13**-**20102-00

(TYP) H1S-87 1/8" = 1'-0"

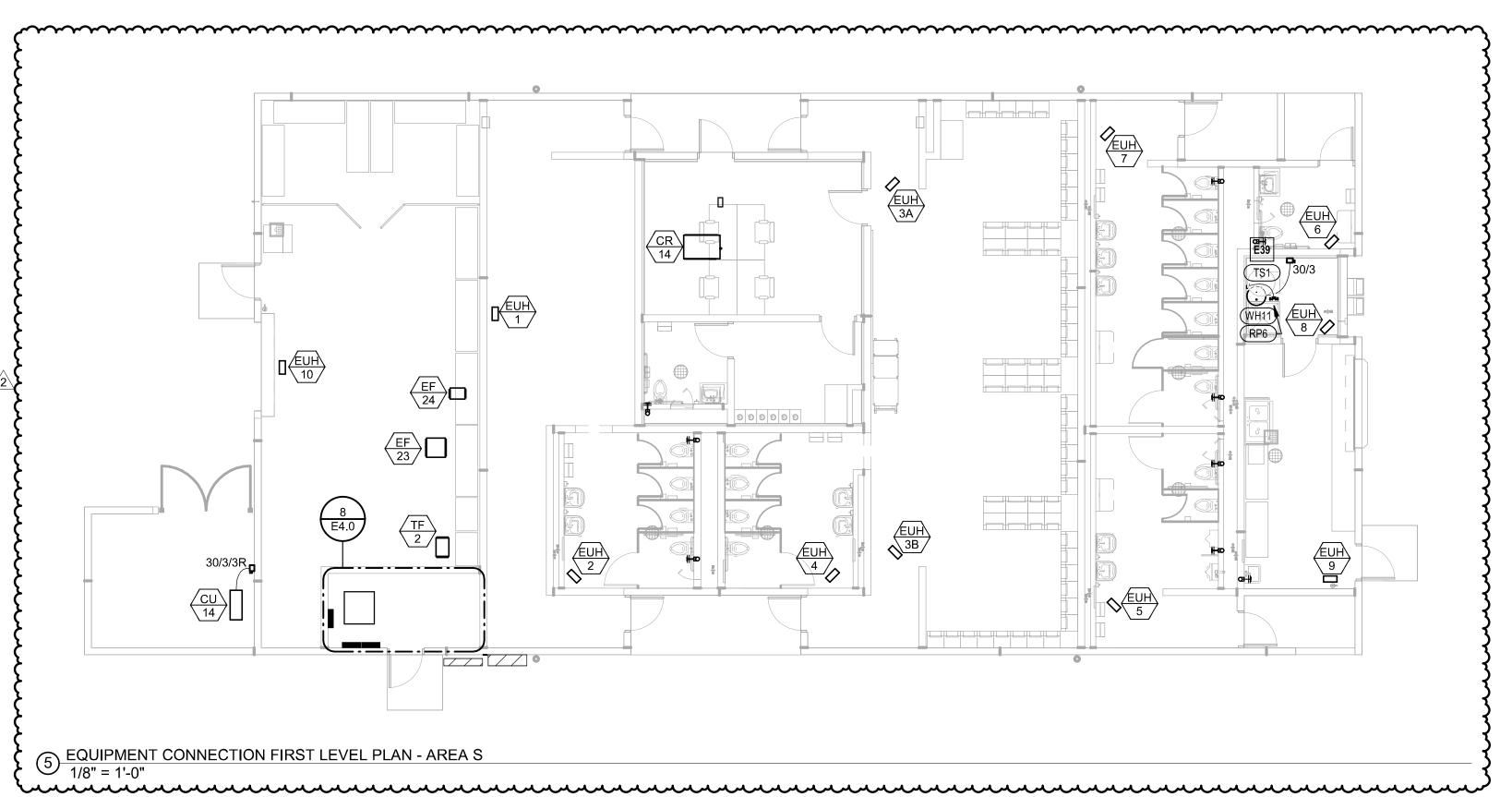
ELECTRICAL

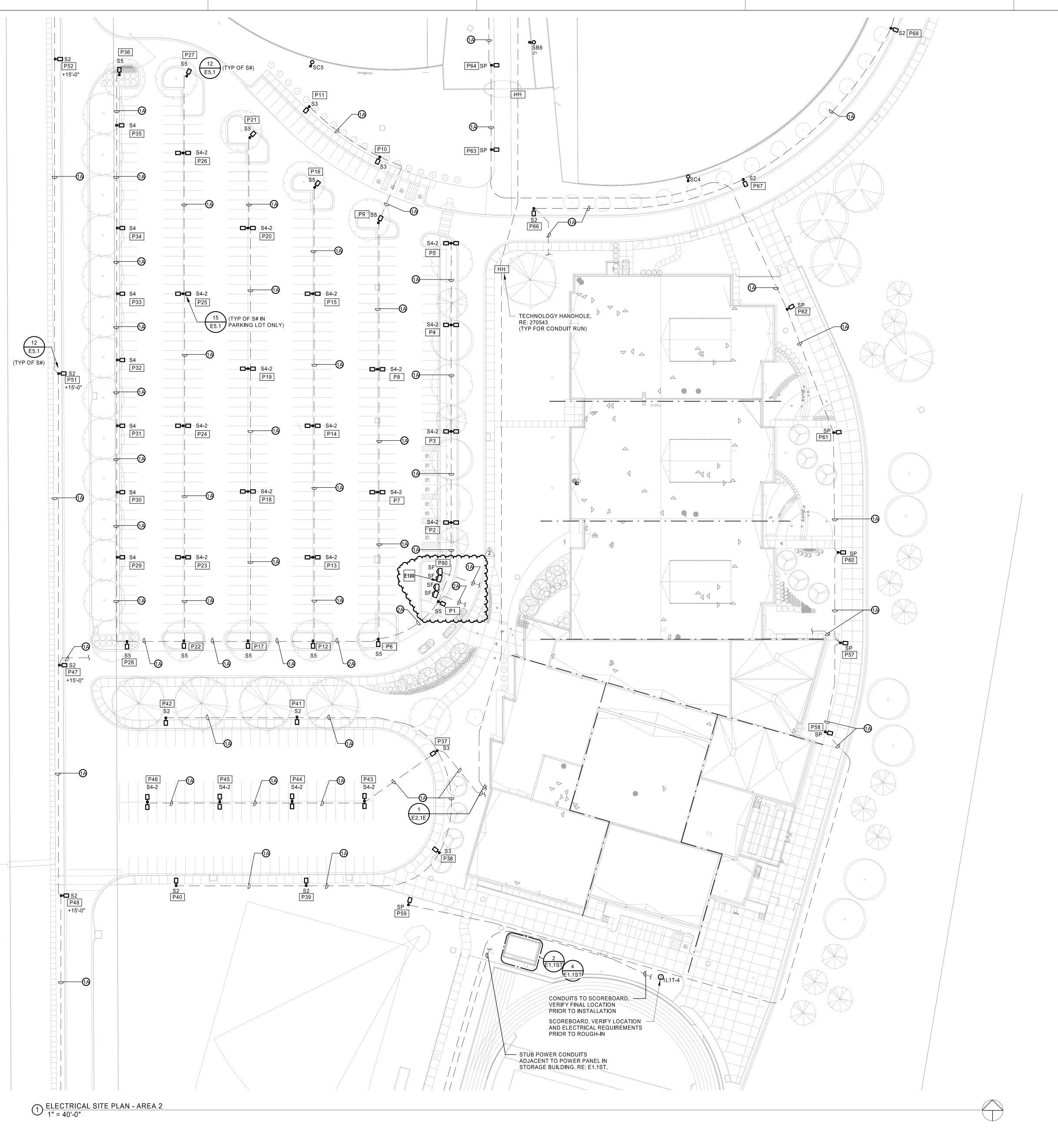
L1S-9

STORAGE

S100

3 POWER FIRST LEVEL PLAN - AREA S 1/8" = 1'-0"





			VOLIF	Conduit	Conductor	No.	Wire			Circuit	Power	Circuit	Branch	Cum
PNL-CKT	Identi	fication	Source Pole	Туре	Material	of	Size	Voltage	Phase	Length	Factor	Load	Voltage Drop	Voltag
	Pole	Fixture		P or S	CU or AL	Sets	(Phase)			(Feet)	(PF)	(Amps)	(Volts)	(%
2H1C-12	P1	To S5	_	Р	CU	1	8	277	1	200	0.95	8.538	2.586	0.93
		+		-		'								
2H1C-12	P2	To S4-2	P1	Р	CU	1	8	277	1	80	0.95	2.732	0.331	1.05
2H1C-12	P3	To S4-2	P2	Р	CU	1	8	277	1	90	0.95	2.049	0.279	1.15
2H1C-12	P4	To S4-2	P3	Р	CU	1	8	277	1	105	0.95	1.366	0.217	1.23
2H1C-12	P5	To S4-2	P4	P	CU	1	8	277	1	80	0.95	0.683	0.083	1.26
						1			· ·					
2H1C-12	P6	To S5	P1	Р	CU	1	8	277	1	70	0.95	2.732	0.290	1.03
2H1C-12	P7	To S4-2	P6	Р	CU	1	8	277	1	140	0.95	2.391	0.507	1.22
2H1C-12	P8	To S4-2	P7	Р	CU	1	8	277	1	120	0.95	1.708	0.310	1.33
2H1C-12	P9	To S5	P8	Р	CU	1	8	277	1	140	0.95	1.025	0.217	1.41
	-	+	+			1								
2H1C-12	P10	To S3	P9	Р	CU	ı	8	277	1	75	0.95	0.683	0.078	1.44
2H1C-12	P11	To S3	P10	Р	CU	1	8	277	1	85	0.95	0.342	0.044	1.45
2H1C-12	P12	To S5	P6	Р	CU	1	8	277	1	60	0.95	2.732	0.248	1.12
2H1C-12	P13	To S4-2	P12	Р	CU	1	8	277	1	80	0.95	2.391	0.290	1.23
2H1C-12	P14	To S4-2	P13	Р	CU	1		277	1	130	0.95	1.708	0.336	1.35
				-			8		· ·					
2H1C-12	P15	To S4-2	P14	Р	CU	1	8	277	1	130	0.95	1.025	0.202	1.42
2H1C-12	P16	To S5	P15	Р	CU	1	8	277	1	100	0.95	0.342	0.052	1.44
2H1C-14	P17	To S5	_	Р	CU	1	8	277	1	395	0.95	9.221	5.516	1.99
		+	54-			1								-
2H1C-14	P18	To S4-2	P17	Р	CU	1	8	277	1	145	0.95	2.391	0.525	2.18
2H1C-14	P19	To S4-2	P18	Р	CU	1	8	277	1	120	0.95	1.708	0.310	2.29
2H1C-14	P20	To S4-2	P19	Р	CU	1	8	277	1	135	0.95	1.025	0.209	2.37
		+	+	P	CU	1	8	277	1	85	0.95			-
2H1C-14	P21	To S5	P20			 						0.342	0.044	2.388
2H1C-14	P22	To S5	P17	Р	CU	1	8	277	1	65	0.95	3.415	0.336	2.116
2H1C-14	P23	To S4-2	P22	Р	CU	1	8	277	1	80	0.95	3.074	0.372	2.25
2H1C-14	P24	To S4-2	P23	Р	CU	1	8	277	1	125	0.95	2.391	0.453	2.414
	+	+	+	·		1								
2H1C-14	P25	To S4-2	P24	Р	CU	1	8	277	1	125	0.95	1.708	0.323	2.53
2H1C-14	P26	To S4-2	P25	Р	CU	1	8	277	1	135	0.95	1.025	0.209	2.60
2H1C-14	P27	To S5	P26	Р	CU	1	8	277	1	75	0.95	0.342	0.039	2.62
	P28	+	P22	P	CU	1		277	1	55	0.95	3.074	0.256	2.209
2H1C-14		To S5		-		<u> </u>	8							
2H1C-14	P29	To S5	P28	Р	CU	1	8	277	1	95	0.95	2.732	0.393	2.35
2H1C-14	P30	To S5	P29	Р	CU	1	8	277	1	65	0.95	2.391	0.235	2.43
2H1C-14	P31	To S5	P30	Р	CU	1	8	277	1	65	0.95	2.049	0.202	2.509
				P		1	8	277	1	65				
2H1C-14	P32	To S5	P31		CU	1					0.95	1.708	0.168	2.569
2H1C-14	P33	To S5	P32	Р	CU	1	8	277	1	65	0.95	1.366	0.134	2.618
2H1C-14	P34	To S5	P33	Р	CU	1	8	277	1	65	0.95	1.025	0.101	2.654
2H1C-14	P35	To S5	P34	Р	CU	1	8	277	1	95	0.95	0.683	0.098	2.690
						1								-
2H1C-14	P36	To S5	P35	Р	CU	1	8	277	1	50	0.95	0.342	0.026	2.699
											ı			
1H1E-33	P37	To S3	_	Р	CU	1	8	277	1	125	0.95	4.781	0.905	0.33
1H1E-33	P38	To S3	P37	P	CU	1	8	277	1	100	0.95	1.025	0.155	0.38
	+		+	·										
1H1E-33	P39	To S2	P38	Р	CU	1	8	277	1	140	0.95	0.683	0.145	0.43
1H1E-33	P40	To S2	P39	Р	CU	1	8	277	1	125	0.95	0.342	0.065	0.46
1H1E-33	P41	To S2	P37	Р	CU	1	8	277	1	145	0.95	0.683	0.150	0.38
1H1E-33	P42	To S2	P41	P	CU	1	8	277	1	125	0.95	0.342	0.065	0.40
						'								
1H1E-33	P43	To S4-2	P37	Р	CU	1	8	277	1	80	0.95	2.732	0.331	0.450
1H1E-33	P44	To S4-2	P43	Р	CU	1	8	277	1	70	0.95	2.049	0.217	0.528
1H1E-33	P45	To S4-2	P44	Р	CU	1	8	277	1	70	0.95	1.366	0.145	0.58
	P46		P45	P	CU	1	8	277	1	70	0.95	0.683	0.072	
1H1E-33	P46	To S4-2	P45	Р	CU	1	0	211	I	70	0.95	0.003	0.072	0.607
2H1C-16	P47	To S2	_	Р	CU	1	8	277	1	605	0.95	3.415	3.129	1.133
2H1C-16	P48	To S2	P47	P	CU	1	8	277	1	220	0.95	1.025	0.341	1.25
		-	-			4								
2H1C-16	P49	To S2	P48	Р	CU	1	8	277	1	215	0.95	0.683	0.222	1.33
2H1C-16	P50	To S2	P49	Р	CU	1	8	277	1	235	0.95	0.342	0.122	1.38
2H1C-16	P51	To S2	P47	Р	CU	1	8	277	1	280	0.95	2.049	0.869	1.44
	-	+		P	CU	1	8	277	1	300	0.95	1.708	0.776	1.72
2H1C-16	P52	To S2	P51	-		 								-
2H1C-16	P53	To S2	P52	Р	CU	1	8	277	1	205	0.95	1.366	0.424	1.88
2H1C-16	P54	To S2	P53	Р	CU	1	8	277	1	165	0.95	1.025	0.256	1.97
2H1C-16	P55	To S2	P54	P	CU	1	8	277	1	200	0.95	0.683	0.207	2.04
	+					<u>'</u>								-
2H1C-16	P56	To S2	P55	Р	CU	1	8	277	1	150	0.95	0.342	0.078	2.07
	<u>L</u>	<u> </u>	<u> </u>			<u></u>						<u> </u>		
2H1C-18	P57	To SP	-	Р	CU	1	8	277	1	215	0.95	1.894	0.604	0.222
2H1C-18	P58	To SP	P57	Р	CU	1	8	277	1	80	0.95	0.421	0.050	0.240
				-		4								
2H1C-18	P59	To SP	P58	Р	CU	1	8	277	1	620	0.95	0.210	0.193	0.309
2H1C-18	P60	To SP	P57	Р	CU	_ 1	8	277	1	80	0.95	1.263	0.150	0.276
2H1C-18	P61	To SP	P60	Р	CU	1	8	277	1	110	0.95	1.052	0.172	0.338
						1								
2H1C-18	P62	To SP	P61	P	CU	I	8	277	1	130	0.95	0.842	0.162	0.396
2H1C-18	P63	To SP	P62	Р	CU	1	8	277	1	390	0.95	0.631	0.365	0.528
2H1C-18	P64	To SP	P63	Р	CU	1	8	277	1	80	0.95	0.421	0.050	0.546
2H1C-18	P65	To SP	P64	Р	CU	1	8	277	1	85	0.95	0.210	0.027	0.55
∠ı71 ∪- 1ŏ	F05	1038	F 04			'	- °	211	1	00	U.30	0.210	0.021	0.55
2H1A-10	P66	To S2	_	Р	CU	1	8	277	1	1	0.95	2.049	0.003	0.00
2H1A-10	P67	To S2	P66	P	CU	1	8	277	1	205	0.95	1.708	0.519	0.192
		+				1								-
2H1A-10	P68	To S2	P67	Р	CU	1	8	277	1	205	0.95	1.366	0.415	0.34
2H1A-10	P69	To S2	P68	Р	CU	1	8	277	1	175	0.95	1.025	0.266	0.438
2H1A-10	P70	To S2	P69	Р	CU	1	8	277	1	180	0.95	0.683	0.182	0.50
2H1A-10	P71	To S2	P70	Р	CU	1	8	277	1	245	0.95	0.342	0.124	0.54
ZHTA-TU			P70		~~~	~~~	~~~	~~~	~~~	²⁴⁵		0.342 1		
			J. V. V.		CII	1	Ω		1					
	P80	To SF	-	P	CU	1	8	277	1	200	0.95	0.375	0.111	0.044
2H1C-20		mm	مسسس	مسم		سس	المالمالين	سسسا	سسس	سسسا	سس	mm	mmmm	μ
mm	mm			-	<u> </u>	4		^	1	^^	^^-	2 2 2 2	2 2 2 2	2
Typ Run Typ Run	<u>. </u>	S3/S5 Fixture S4-2 Fixture		P	CU CU	1	8	277 277	1	20 20	0.95 0.95	0.342 0.683	0.010 0.021	0.00 ²

VOLTAGE DROP CALCULATIONS - SITE LIGHTING

FIXTURE HEIGHT SP +12'-0"

FIXTURE	HEIGHT
SP	+12'-0"
S2	+20'-0"
S3	+20'-0"
S4	+20'-0"
S4-2	+20'-0"
S5	+20'-0"
W1,W1E	+12'-0"
W2,W2E	+12'-0"
W8,W8E	CANOPY CEILI MOUNTED
W16,W16E	VERTICAL WA MOUNTING
WW	19'-7"

NOTE: THE ABOVE HEIGHTS ARE TYPICAL PER FIXTURE UNLESS NOTED OTHERWISE ON PLANS.

ELECTRCAL SHEET NOTES:

- P# = SITE LIGHTING POLE DESIGNATION FOR VOLTAGE DROP CALCULATIONS ON THIS SHEET.
 - . COORDINATE EXACT POLE LOCATION WITH ARCHITECT, CIVIL, AND LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- 2. UNDERGROUND CONDUIT ROUTING SHOWN FOR REFERENCE AND VOLTAGE DROP CALCULATIONS. COORDINATE EXACT ROUTING WITH OTHER UTILITIES, TREES, AND OTHER OBSTACLES. IF ROUTING DIFFERS FROM SHOWN, PROVIDE REVISED VOLTAGE DROP CALCULATIONS FOR REVIEW PRIOR TO INSTALLATION.

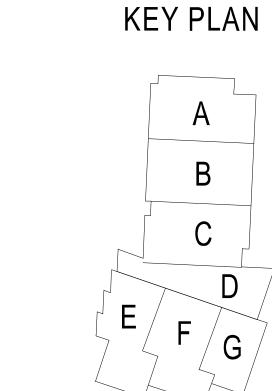
SITE LIGHTING CIRCUIT LEGEND

- # INDICATES NUMBER OF CIRCUITS IN A CONDUIT
 _ INDICATES CIRCUIT(S) CONDUCTOR(S) SIZE AND CONFIGURATION
- ① 1-1/2" PVC CONDUIT WITH PULLSTRING FOR FUTURE
- (3) 2" PVC CONDUIT WITH PULLSTRING FOR FUTURE
- (A) 1-1/2" PVC CONDUIT WITH (2) #8 THWN CU. & (1) #8 GND.
 (A) 1-1/2" PVC CONDUIT WITH (4) #8 THWN CU & (1) #8 GND.

ELECTRICAL PLAN NOTES:

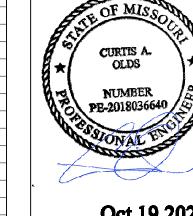
E100 FLAG POLE SPOT LIGHTING TO BE MOUNTED IN LANDSCAPING ON TOP OF IN-GRADE ELECTRICAL JUNCTION BOX, COORDINATE INSTALLATION REQUIREMENTS WITH MANUFACTURER'S SPECIFICATIONS. COORDINATE EXACT LOCATION OF FLAGPOLES AND LOCATION OF WITH ARCHITECTURAL AND LANDSCAPING PLANS PRIOR TO BEGINNING ANY WORK.

SITE
10/08/20
REVISIONS
ADDENDUM 002



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RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI



Oct 19 2020
CURTIS A. OLDS
LICENSE # PE-2018036640

ENGINEERS

8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
TEL 913.742.5000 FAX 913.742.5001

WWW.HENDERSONENGINEERS.COM
1950005054

JAMIT MIDDLE SCHOOL #4

LEE'S SUMMIL K-7 S

1001 SE BAILEY ROAD

1 FF'S SUMMIT MO 64081

PACKAGE 3 - BUILDING & SITE
10/08/20
REVISIONS

13-20102-00 ELECTRICAL SITE PLAN - AREA 2

E1.02

ELECTRICAL PLAN NOTES:

CONTROLS FUNCTIONALITY.

E4 SUSPENDED OR RECESSED LINEAR FIXTURES SHALL BE PROVIDED AS A SINGLE CONTINUOUS FIXTURE. PROVIDE ALL FACTORY CORNERS AND FITTINGS AS REQUIRED. CONTRACTOR SHALL VERIFY FIXTURE LENGTHS WITH ARCHITECTURAL PLANS PRIOR TO ORDERING.

(E69 PROVIDE "IN USE" SIGN 6'-0" A.F.F. FOR KILN ROOM. PROVIDE RELAYS AS NEEDED TO INTERCONNECT SIGN WITH KILN CONTROL PANEL AND BAS CONTROLS SO THAT LIGHT IS ILLUMINATED WHEN KILN IS IN USE. E87 DISPLAY CASE LIGHT FIXTURE. COORDINATE MOUNTING WITH ARCHITECT PRIOR TO ROUGH-IN. E88 PROVIDE DISPLAY CABINET LIGHTING POWER SUPPLY AND 0-10V DIMMING MODULE IN ACCESSIBLE LOCATION ABOVE DISPLAY CASE. COORDINATE LOCATION WITH ARCHITECT SO THAT COMPONENTS ARE NOT VISIBLE TO OCCUPANT. REFER TO LIGHT FIXTURE SCHEDULE FOR MORE INFORMATION.

INDICATED NETWORKED LIGHTING CONTROL PANEL.

ASTRONOMICAL TIME CLOCK AND PHOTOCELL VIA NETWORKED LIGHTING CONTROL PANEL. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING

EXTERIOR LIGHTING ZONES TO BE CONTROLLED VIA SINGLE

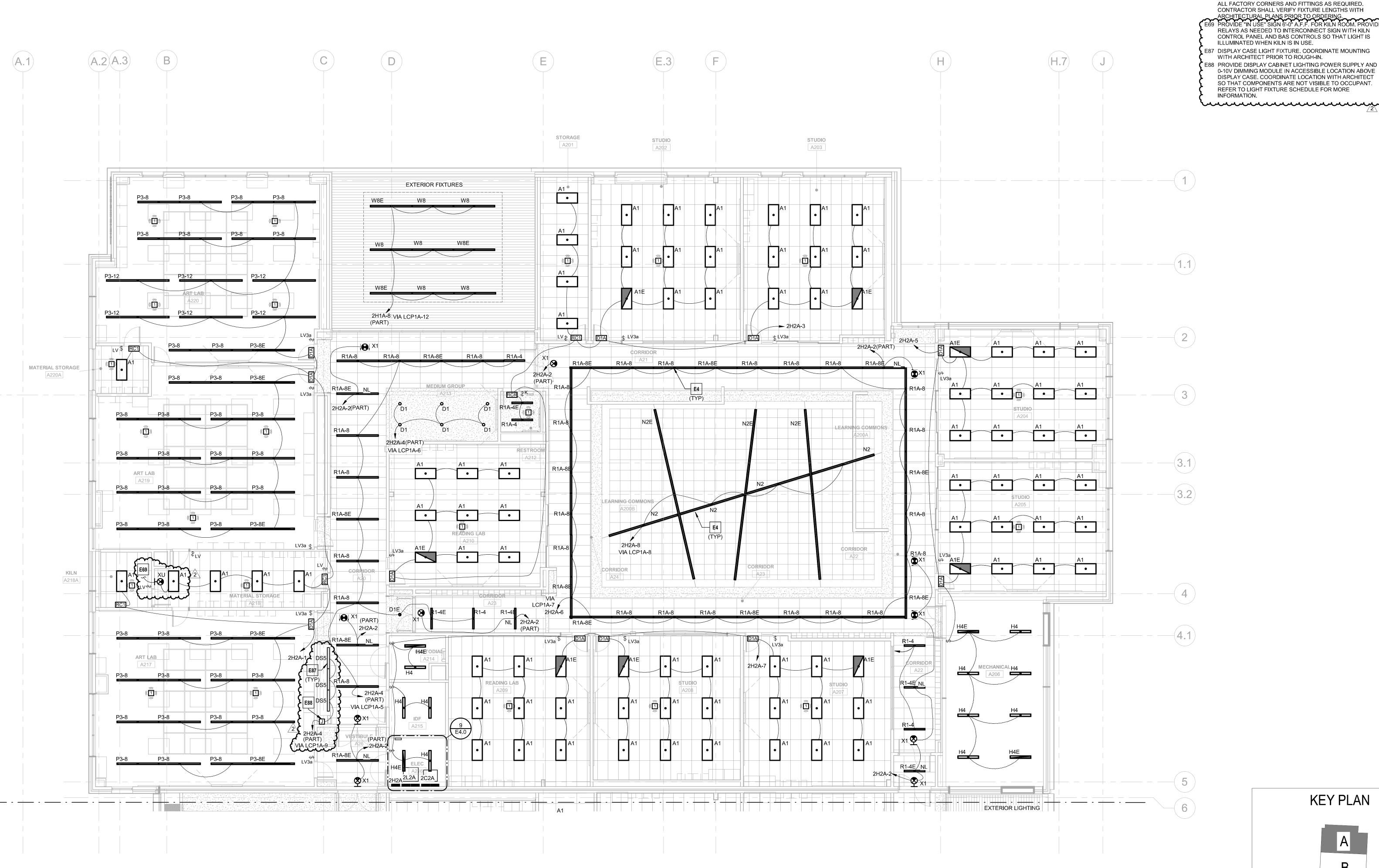
RELEASE FOR CONSTRUCTION S NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

CURTIS A. OLDS LICENSE # PE-2018036640

PACKAGE 3 - BUILDING & SITE

KEY PLAN

13-20102-00 SECOND LEVEL RCP - AREA A E1.2A



1 LIGHTING SECOND LEVEL RCP - AREA A

LIGHTING CONTROLS INTENT:

OFFICE RECEPTION D100A.

CONTROLS FUNCTIONALITY.

ELECTRICAL PLAN NOTES:

SECURITY.

1. CORRIDORS AND PUBLIC SPACE LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL(S). A DATA CONNECTION WILL BE REQUIRED AT EACH LIGHTING CONTROL PANEL. MASTER LIGHTING CONTROL INTERFACE TO BE LOCATED IN MAIN

2. FIXTURES LABELED "NL" (NIGHT LIGHT) AND EXIT SIGNS TO BE CONNECTED TO UNSWITCHED HOT CONDUCTORS. NIGHT LIGHTS TO OPERATE CONTINUOUSLY FOR CORRIDOR

3. INDIVIDUAL NON-PUBLIC SPACE ROOMS TO BE CONTROLLED LOCALLY. REFER TO LIGHTING SEQUENCE OF OPERATIONS

EXTERIOR LIGHTING ZONES TO BE CONTROLLED VIA SINGLE

4. EXTERIOR LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL.

ASTRONOMICAL TIME CLOCK AND PHOTOCELL VIA NETWORKED LIGHTING CONTROL PANEL. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING

E4 SUSPENDED OR RECESSED LINEAR FIXTURES SHALL BE PROVIDED AS A SINGLE CONTINUOUS FIXTURE, PROVIDE ALL FACTORY CORNERS AND FITTINGS AS REQUIRED. CONTRACTOR SHALL VERIFY FIXTURE LENGTHS WITH

ARCHITECTURAL PLANS PRIOR TO ORDERING.

FOR LIGHTING CONTROLS FUNCTIONALITY.

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

LICENSE # PE-2018036640

PACKAGE 3 - BUILDING & SITE REVISIONS

KEY PLAN

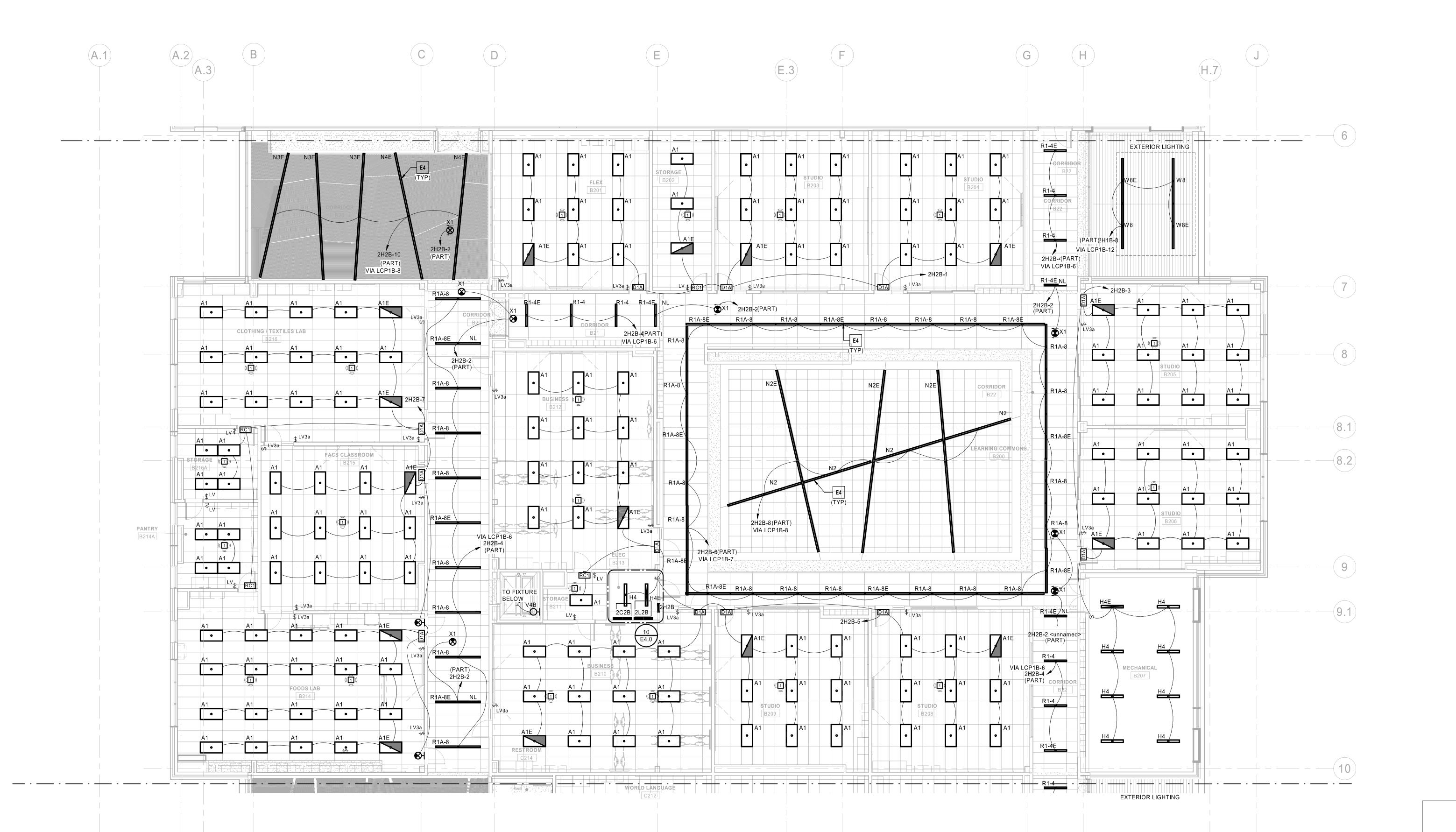
E1.2B

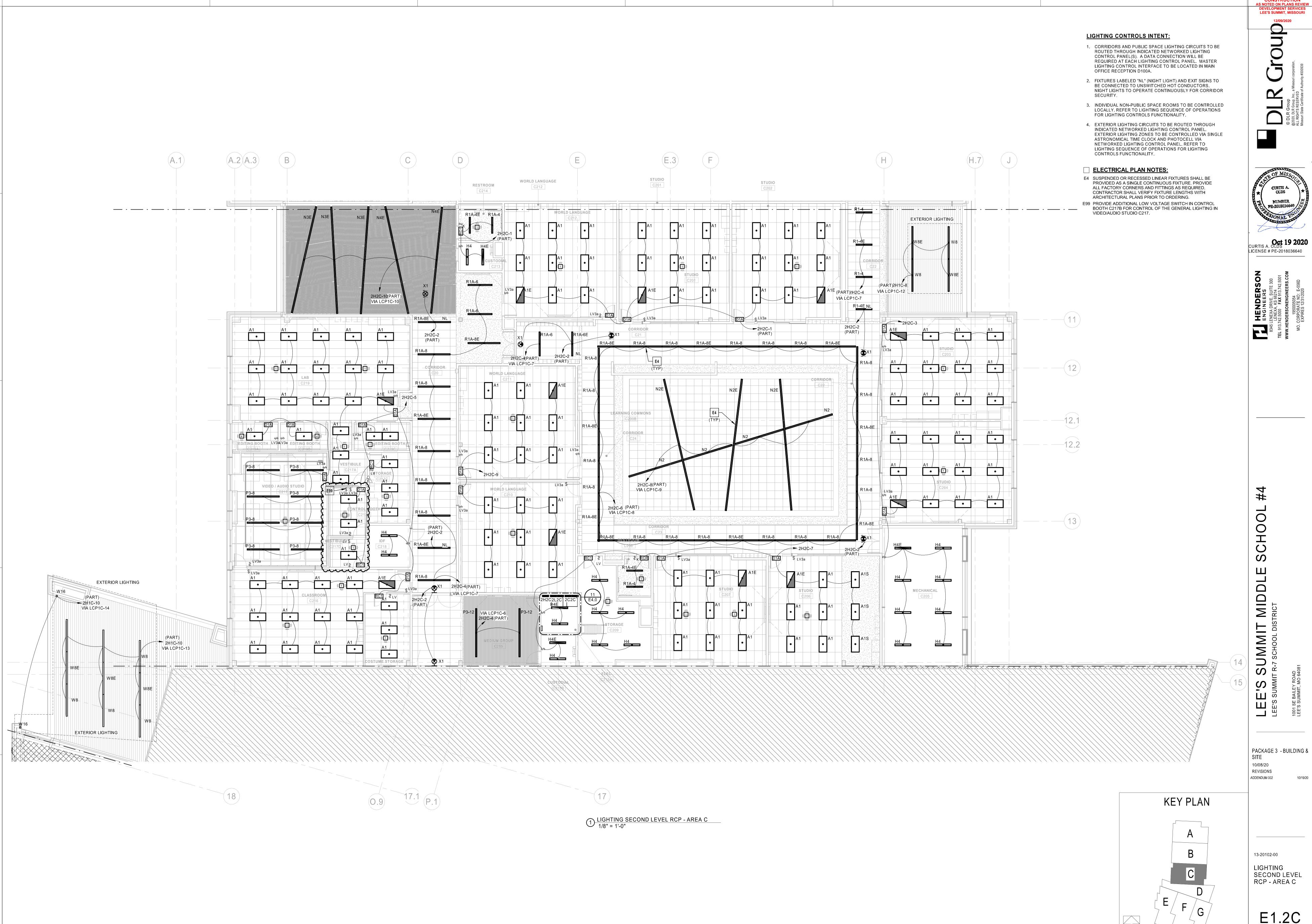
13-20102-00

LIGHTING

SECOND LEVEL RCP - AREA B

1 LIGHTING SECOND LEVEL RCP - AREA B





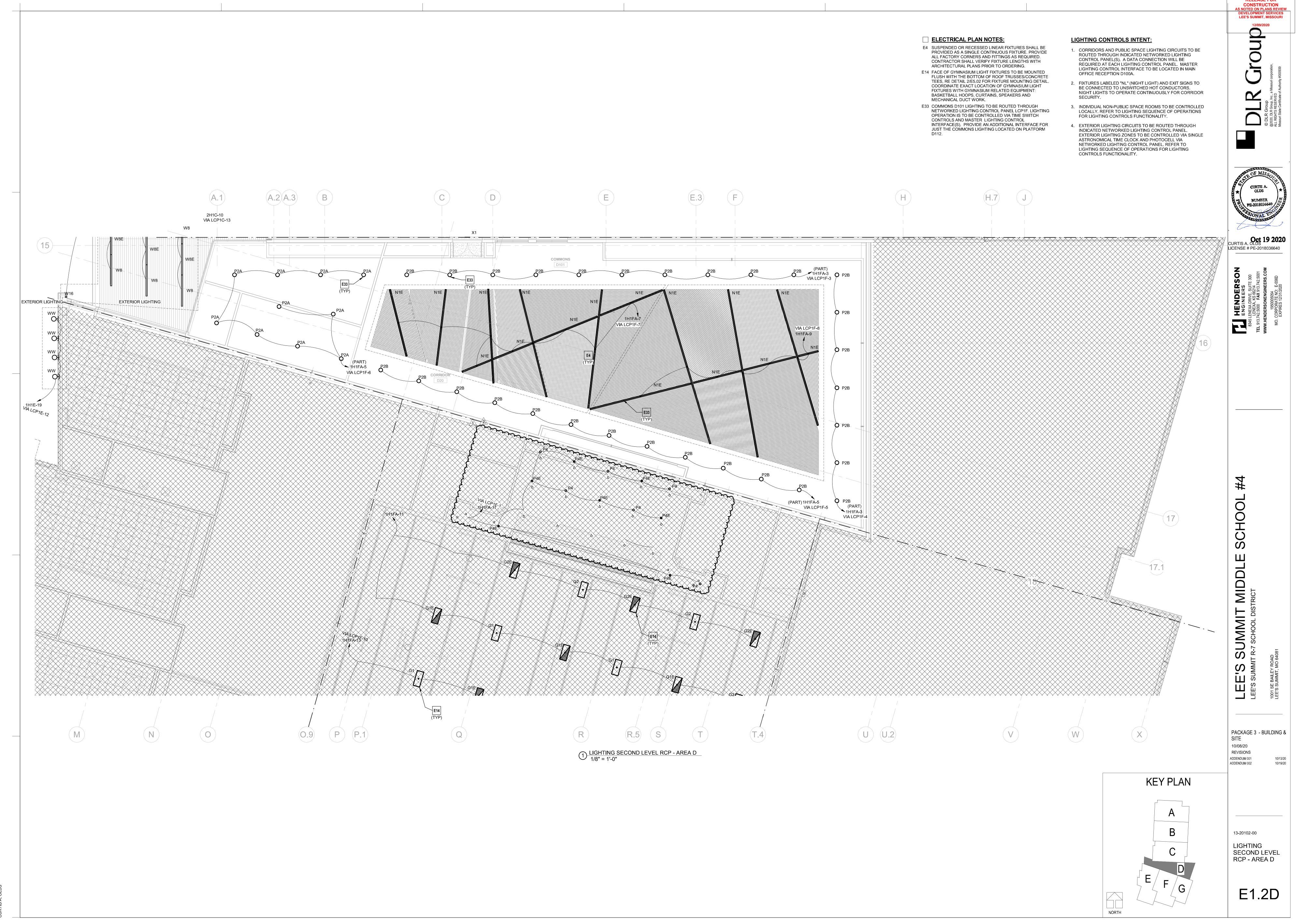
Oct 19 2020 CURTIS A. OLDS

RELEASE FOR CONSTRUCTION

PACKAGE 3 - BUILDING & SITE

13-20102-00 LIGHTING SECOND LEVEL RCP - AREA C

E1.2C



RELEASE FOR

- 1. CORRIDORS AND PUBLIC SPACE LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL(S). A DATA CONNECTION WILL BE REQUIRED AT EACH LIGHTING CONTROL PANEL. MASTER LIGHTING CONTROL INTERFACE TO BE LOCATED IN MAIN OFFICE RECEPTION D100A.
- 2. FIXTURES LABELED "NL" (NIGHT LIGHT) AND EXIT SIGNS TO BE CONNECTED TO UNSWITCHED HOT CONDUCTORS. NIGHT LIGHTS TO OPERATE CONTINUOUSLY FOR CORRIDOR
- SECURITY. 3. INDIVIDUAL NON-PUBLIC SPACE ROOMS TO BE CONTROLLED LOCALLY. REFER TO LIGHTING SEQUENCE OF OPERATIONS
- 4. EXTERIOR LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL. EXTERIOR LIGHTING ZONES TO BE CONTROLLED VIA SINGLE ASTRONOMICAL TIME CLOCK AND PHOTOCELL VIA NETWORKED LIGHTING CONTROL PANEL. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY.

FOR LIGHTING CONTROLS FUNCTIONALITY.

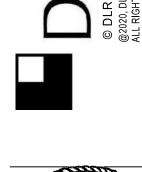
ELECTRICAL PLAN NOTES:

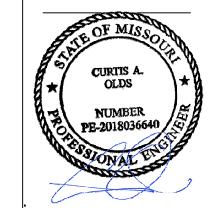
- E6 KEYED SWITCH, IN VESTIBULE F102 AND ASSOCIATED OCCUPANCY SENSORS, TO CONTROL LIGHTS IN VESTIBULE F102 AND LEVEL 1 & 2 ADJACENT STAIRWELL E1 GO6.
- E7 EXTERIOR LIGHT FIXTURE TO BE FED VIA REMOTE 277 TO 24V DIMMABLE LED DRIVER (KELVIX HLV96 OR EQUIVALENT) AND PROVIDED WITH REMOTE INVERTER (ASSURANCE EMERGENCY LIGHTING SI-125 OR EQUIVALENT) TO PROVIDE BATTERY BACKED EMERGENCY POWER. INVERTER AND LED DRIVER TO BE MOUNTED INSIDE BUILDING ABOVE ACCESSIBLE CEILING IN MUSIC CLASSROOMS.
- E77 LIGHTING ON ROOFTOP TO BE LOCALLY CONTROLLED VIA SWITCH AND IS INTENDED TO PROVIDE ILLUMINATION FOR AFTER HOURS SERVICING OF ELECTRICAL EQUIPMENT.

LIGHTING CONTROLS INTENT:

RELEASE FOR CONSTRUCTION

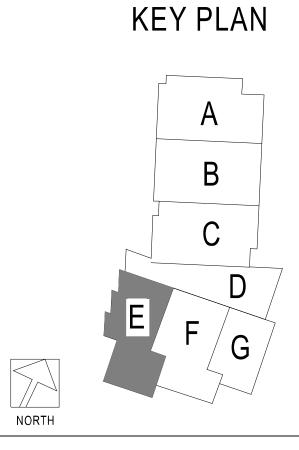
LEE'S SUMMIT, MISSOURI





LICENSE # PE-2018036640

PACKAGE 3 - BUILDING & SITE REVISIONS



SECOND LEVEL RCP - AREA E

E1.2E

LIGHTING CONTROLS INTENT:

- ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL(S). A DATA CONNECTION WILL BE REQUIRED AT EACH LIGHTING CONTROL PANEL. MASTER LIGHTING CONTROL INTERFACE TO BE LOCATED IN MAIN OFFICE RECEPTION D100A.
- 2. FIXTURES LABELED "NL" (NIGHT LIGHT) AND EXIT SIGNS TO BE CONNECTED TO UNSWITCHED HOT CONDUCTORS.
- 4. EXTERIOR LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL. EXTERIOR LIGHTING ZONES TO BE CONTROLLED VIA SINGLE ASTRONOMICAL TIME CLOCK AND PHOTOCELL VIA NETWORKED LIGHTING CONTROL PANEL. REFER TO

LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING

ELECTRICAL PLAN NOTES:

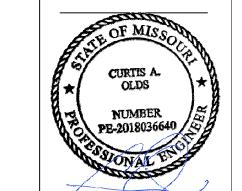
CONTROLS FUNCTIONALITY.

- E10 LOW VOLTAGE LIGHT SWITCHES FOR COMPETITION GYM F101 TO PROVIDE ON/OFF AND DIMMING FUNCTIONALITY FOR GYMNASIUM LIGHT FIXTURES. LIGHT SWITCH TO INTERFACE WITH LIGHTING CONTROL PANEL LCP1F LOCATED IN PLATFORM STORAGE D112A. CIRCUITS FOR GYMNASIUM LIGHT FIXTURES TO BE ROUTED THROUGH DIMMING MODULES IN LIGHTING CONTROL PANEL LCP1F AS
- E13 ICC 500 SHELTER GYM LIGHTING CONTROLS SHOWN ON LEVEL 1, DIMMABLE ROOM CONTROLLERS ARE SHOWN ON
- E14 FACE OF GYMNASIUM LIGHT FIXTURES TO BE MOUNTED FLUSH WITH THE BOTTOM OF ROOF TRUSSES/CONCRETE
- TEES, RE DETAIL 2/E5.02 FOR FIXTURE MOUNTING DETAIL. COORDINATE EXACT LOCATION OF GYMNASIUM LIGHT FIXTURES WITH GYMNASIUM RELATED EQUIPMENT: BASKETBALL HOOPS, CURTAINS, SPEAKERS AND MECHANICAL DUCT WORK.
- E32 STAGE AREA LIGHTING CONTROL SWITCH SHOWN ON E1.1F. LIGHTING TO BE ROUTED THROUGH LIGHTING CONTROL

1. CORRIDORS AND PUBLIC SPACE LIGHTING CIRCUITS TO BE

NIGHT LIGHTS TO OPERATE CONTINUOUSLY FOR CORRIDOR

3. INDIVIDUAL NON-PUBLIC SPACE ROOMS TO BE CONTROLLED LOCALLY. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING CONTROLS FUNCTIONALITY.



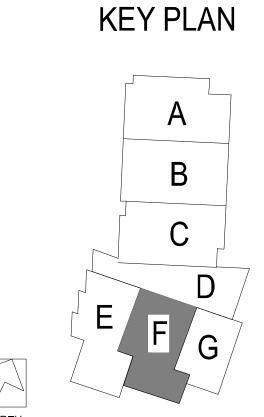
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CURTIS A. OLDS 19 2020 LICENSE # PE-2018036640

PACKAGE 3 - BUILDING &

10/08/20 REVISIONS ADDENDUM 002



13-20102-00 LIGHTING SECOND LEVEL RCP - AREA F

E1.2F

1 LIGHTING SECOND LEVEL RCP - AREA G

- CORRIDORS AND PUBLIC SPACE LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL(S). A DATA CONNECTION WILL BE REQUIRED AT EACH LIGHTING CONTROL PANEL. MASTER LIGHTING CONTROL INTERFACE TO BE LOCATED IN MAIN OFFICE RECEPTION D100A.
- FIXTURES LABELED "NL" (NIGHT LIGHT) AND EXIT SIGNS TO BE CONNECTED TO UNSWITCHED HOT CONDUCTORS. NIGHT LIGHTS TO OPERATE CONTINUOUSLY FOR CORRIDOR
- SECURITY. INDIVIDUAL NON-PUBLIC SPACE ROOMS TO BE CONTROLLED LOCALLY. REFER TO LIGHTING SEQUENCE OF OPERATIONS

FOR LIGHTING CONTROLS FUNCTIONALITY.

- 4. EXTERIOR LIGHTING CIRCUITS TO BE ROUTED THROUGH INDICATED NETWORKED LIGHTING CONTROL PANEL. EXTERIOR LIGHTING ZONES TO BE CONTROLLED VIA SINGLE ASTRONOMICAL TIME CLOCK AND PHOTOCELL VIA NETWORKED LIGHTING CONTROL PANEL. REFER TO LIGHTING SEQUENCE OF OPERATIONS FOR LIGHTING
- **ELECTRICAL PLAN NOTES:**

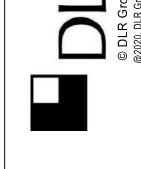
CONTROLS FUNCTIONALITY.

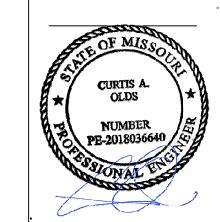
E77 LIGHTING ON ROOFTOP TO BE LOCALLY CONTROLLED VIA SWITCH AND IS INTENDED TO PROVIDE ILLUMINATION FOR AFTER HOURS SERVICING OF ELECTRICAL EQUIPMENT.

LIGHTING CONTROLS INTENT:

RELEASE FOR

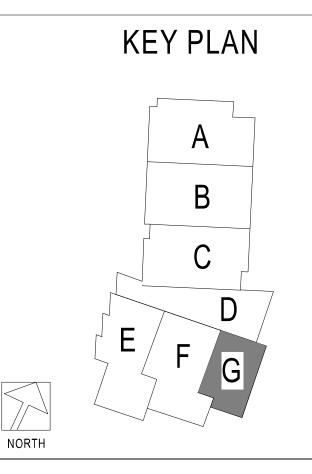
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI





Oct 8 2020 CURTIS A. OLDS LICENSE # PE-2018036640

PACKAGE 3 - BUILDING & SITE REVISIONS



13-20102-00 LIGHTING SECOND LEVEL RCP - AREA G

E1.2G

NOTE: THE ABOVE HEIGHTS ARE TYPICAL PER FIXTURE UNLESS NOTED OTHERWISE ON PLANS.

RELEASE FOR

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LEE'S SUMMIT, MISSOURI

ELECTRCAL SHEET NOTES:

= SITE LIGHTING POLE DESIGNATION FOR VOLTAGE DROP CALCULATIONS ON THIS SHEET.

- COORDINATE EXACT POLE LOCATION WITH ARCHITECT, CIVIL, AND LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- 2. UNDERGROUND CONDUIT ROUTING SHOWN FOR REFERENCE AND VOLTAGE DROP CALCULATIONS. COORDINATE EXACT ROUTING WITH OTHER UTILITIES, TREES, AND OTHER OBSTACLES. IF ROUTING DIFFERS FROM SHOWN, PROVIDE REVISED VOLTAGE DROP CALCULATIONS FOR REVIEW PRIOR TO INSTALLATION.

SITE LIGHTING CIRCUIT LEGEND

- # INDICATES NUMBER OF CIRCUITS IN A CONDUIT _ INDICATES CIRCUIT(S) CONDUCTOR(S) SIZE AND CONFIGURATION
- 1-1/2" PVC CONDUIT WITH PULLSTRING FOR FUTURE
- (3) 2" PVC CONDUIT WITH PULLSTRING FOR FUTURE
- ② 1-1/2" PVC CONDUIT WITH (4) #8 THWN CU & (1) #8 GND.

(1) #8 GND. 1-1/2" PVC CONDUIT WITH (2) #8 THWN CU. & (1) #8 GND.

Oct 19 2020

LICENSE # PE-2018036640

200

PACKAGE 3 - BUILDING & SITE

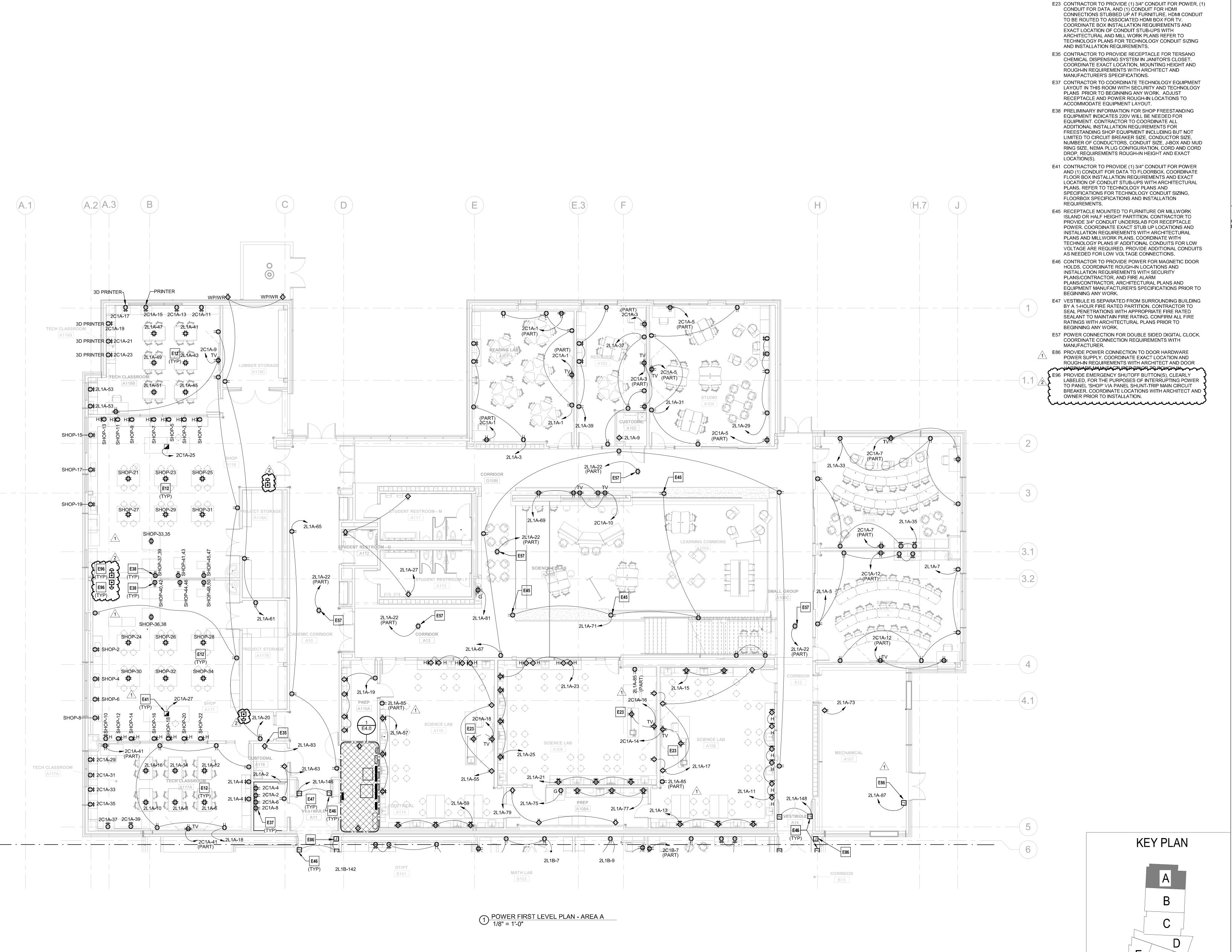
REVISIONS ADDENDUM 002

10/08/20

13-20102-00 ELECTRICAL SITE PLAN - AREA 3

E1.03





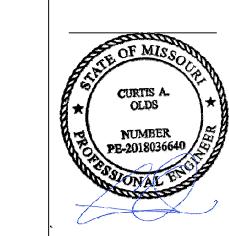
ELECTRICAL PLAN NOTES:

E12 CORD REEL, FLEXIBLE CEILING MOUNT, BLACK HOUSING. BLACK CORD, TRIPLE TAP RECEPTACLE, NO GREATER THAN 10 LBS, 12/3, 15A, HUBBELL HBLC40123TT OR APPROVED EQUIVALENT. COORDINATE EXACT LOCATION WITH

ARCHITECT AND OWNER.

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LEE'S SUMMIT, MISSOURI



CURTIS A. OLDS 19 2020 LICENSE # PE-2018036640

PACKAGE 3 - BUILDING &

ADDENDUM 002

13-20102-00 POWER FIRST LEVEL PLAN -AREA A

E2.1A

ELECTRICAL PLAN NOTES:

AND INSTALLATION REQUIREMENTS.

MANUFACTURER'S SPECIFICATIONS.

E44 CONTRACTOR TO COORDINATE EXACT ROUGH-IN LOCATIONS FOR FOOD PREPARATION AREAS WITH

E45 RECEPTACLE MOUNTED TO FURNITURE OR MILLWORK ISLAND OR HALF HEIGHT PARTITION. CONTRACTOR TO PROVIDE 3/4" CONDUIT UNDERSLAB FOR RECEPTACLE POWER. COORDINATE EXACT STUB UP LOCATIONS AND INSTALLATION REQUIREMENTS WITH ARCHITECTURAL PLANS AND MILLWORK PLANS. COORDINATE WITH TECHNOLOGY PLANS IF ADDITIONAL CONDUITS FOR LOW VOLTAGE ARE REQUIRED. PROVIDE ADDITIONAL CONDUITS

AS NEEDED FOR LOW VOLTAGE CONNECTIONS.

E46 CONTRACTOR TO PROVIDE POWER FOR MAGNETIC DOOR HOLDS. COORDINATE ROUGH-IN LOCATIONS AND INSTALLATION REQUIREMENTS WITH SECURITY

CONDUIT FOR DATA, AND (1) CONDUIT FOR HDMI

TO BE ROUTED TO ASSOCIATED HDMI BOX FOR TV. COORDINATE BOX INSTALLATION REQUIREMENTS AND EXACT LOCATION OF CONDUIT STUB-UPS WITH ARCHITECTURAL AND MILL WORK PLANS REFER TO TECHNOLOGY PLANS FOR TECHNOLOGY CONDUIT SIZING

CONNECTIONS STUBBED ÙP AT FURNITURE. HDMI CONDUIT

ARCHITECTURAL PLANS, MILLWORK PLANS AND EQUIPMENT

RELEASE FOR CONSTRUCTION

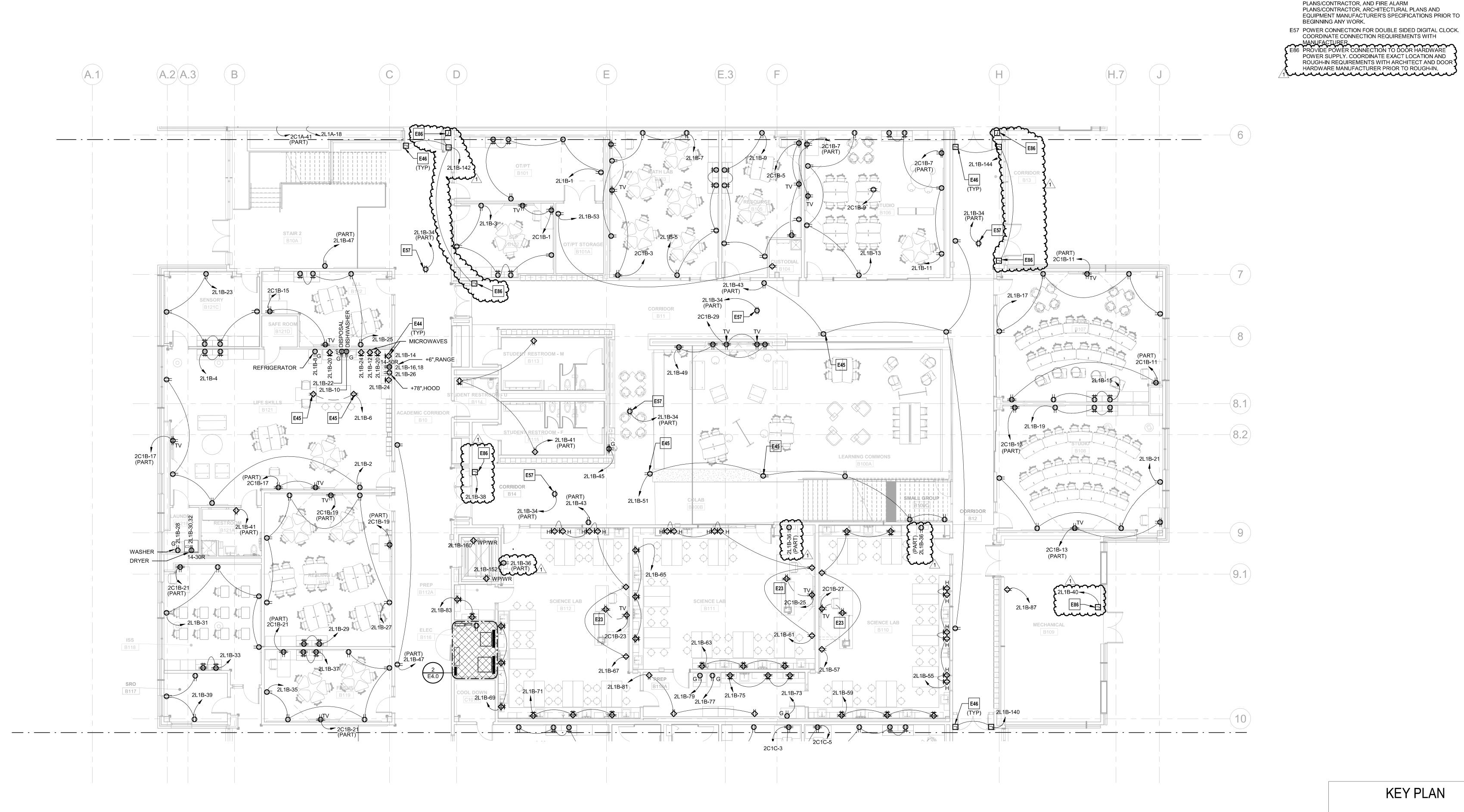
CURTIS A. OLDS 13 2020 LICENSE # PE-2018036640

PACKAGE 3 - BUILDING & SITE

KEY PLAN Α 13-20102-00 POWER FIRST

LEVEL PLAN -AREA B

E2.1B



1) POWER FIRST LEVEL PLAN - AREA B

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CURTIS A. OLDS 13 2020 LICENSE # PE-2018036640

SEALANT TO MAINTAIN FIRE RATING. CONFIRM ALL FIRE RATINGS WITH ARCHITECTURAL PLANS PRIOR TO BEGINNING ANY WORK. E48 CONTRACTOR TO COORDINATE EXACT ROUGH-IN LOCATION AND INSTALLATION REQUIREMENTS FOR FUME HOOD WITH MANUFACTURER'S SPECIFICATIONS AND MECHANICAL CONTRACTOR. PRIOR TO BEGINNING ANY WORK. PROVIDE ELECTRICAL CONNECTION(S) AND CONTROL WIRING PER

EQUIPMENT MANUFACTURER'S SPECIFICATIONS. E49 CONTRACTOR TO PROVIDE (1) 3/4" CONDUIT FOR POWER, (1) CONDUIT FOR DATA AND (1) CONDUIT FOR HDMI TO FLOORBOX. HDMI CONDUIT TO BE ROUTED TO ASSOCIATED HDMI BOX FOR TV. COORDINATE FLOOR BOX INSTALLATION REQUIREMENTS AND EXACT LOCATION OF CONDUIT STUB-UPS WITH ARCHITECTURAL PLANS. REFER TO TECHNOLOGY PLANS AND SPECIFICATIONS FOR TECHNOLOGY CONDUIT SIZING, FLOORBOX SPECIFICATIONS AND INSTALLATION REQUIREMENTS.

ELECTRICAL PLAN NOTES:

AND INSTALLATION REQUIREMENTS.

MANUFACTURER'S SPECIFICATIONS.

ACCOMMODATE EQUIPMENT LAYOUT.

REQUIREMENTS.

E23 CONTRACTOR TO PROVIDE (1) 3/4" CONDUIT FOR POWER, (1) CONDUIT FOR DATA, AND (1) CONDUIT FOR HDMI

TO BE ROUTED TO ASSOCIATED HDMI BOX FOR TV. COORDINATE BOX INSTALLATION REQUIREMENTS AND EXACT LOCATION OF CONDUIT STUB-UPS WITH ARCHITECTURAL AND MILL WORK PLANS REFER TO TECHNOLOGY PLANS FOR TECHNOLOGY CONDUIT SIZING

E35 CONTRACTOR TO PROVIDE RECEPTACLE FOR TERSANO CHEMICAL DISPENSING SYSTEM IN JANITOR'S CLOSET. COORDINATE EXACT LOCATION, MOUNTING HEIGHT AND

ROUGH-IN REQUIREMENTS WITH ARCHITECT AND

PLANS PRIOR TO BEGINNING ANY WORK. ADJUST RECEPTACLE AND POWER ROUGH-IN LOCATIONS TO

E41 CONTRACTOR TO PROVIDE (1) 3/4" CONDUIT FOR POWER AND (1) CONDUIT FOR DATA TO FLOORBOX. COORDINATE FLOOR BOX INSTALLATION REQUIREMENTS AND EXACT LOCATION OF CONDUIT STUB-UPS WITH ARCHITECTURAL

SPECIFICATIONS FOR TECHNOLOGY CONDUIT SIZING, FLOORBOX SPECIFICATIONS AND INSTALLATION

ISLAND OR HALF HEIGHT PARTITION. CONTRACTOR TO PROVIDE 3/4" CONDUIT UNDERSLAB FOR RECEPTACLE POWER. COORDINATE EXACT STUB UP LOCATIONS AND INSTALLATION REQUIREMENTS WITH ARCHITECTURAL PLANS AND MILLWORK PLANS. COORDINATE WITH TECHNOLOGY PLANS IF ADDITIONAL CONDUITS FOR LOW VOLTAGE ARE REQUIRED. PROVIDE ADDITIONAL CONDUITS

E45 RECEPTACLE MOUNTED TO FURNITURE OR MILLWORK

AS NEEDED FOR LOW VOLTAGE CONNECTIONS.

PLANS/CONTRACTOR, AND FIRE ALARM

BEGINNING ANY WORK.

E46 CONTRACTOR TO PROVIDE POWER FOR MAGNETIC DOOR HOLDS, COORDINATE ROUGH-IN LOCATIONS AND INSTALLATION REQUIREMENTS WITH SECURITY

PLANS/CONTRACTOR, ARCHITECTURAL PLANS AND

E47 VESTIBULE IS SEPARATED FROM SURROUNDING BUILDING BY A 1-HOUR FIRE RATED PARTITION. CONTRACTOR TO SEAL PENETRATIONS WITH APPROPRIATE FIRE RATED

EQUIPMENT MANUFACTURER'S SPECIFICATIONS PRIOR TO

PLANS. REFER TO TECHNOLOGY PLANS AND

E37 CONTRACTOR TO COORDINATE TECHNOLOGY EQUIPMENT LAYOUT IN THIS ROOM WITH SECURITY AND TECHNOLOGY

CONNECTIONS STUBBED UP AT FURNITURE. HDMI CONDUIT

E57 POWER CONNECTION FOR DOUBLE SIDED DIGITAL CLOCK. COORDINATE CONNECTION REQUIREMENTS WITH MANUFACTURER.

E71 CONTRACTOR TO PROVIDE (1) 3/4" CONDUIT FOR POWER TO FLOORBOX. COORDINATE FLOOR BOX INSTALLATION REQUIREMENTS AND EXACT LOCATION OF IN-WALL CONDUIT STUB-UP WITH ARCHITECTURAL PLANS. REFER TO ELECTRICAL SPECIFICATIONS FOR POWER ONLY FLOORBOX SPECIFICATIONS, INSTALL PER MANUFACTURER'S SPECIFICATIONS.

E86 PROVIDE POWER CONNECTION TO DOOR HARDWARE

POWER SUPPLY. COORDINATE EXACT LOCATION AND ROUGH-IN REQUIREMENTS WITH ARCHITECT AND DOOR HARDWARE MANUFACTURER PRIOR TO ROUGH-IN.

PACKAGE 3 - BUILDING & SITE 10/08/20 REVISIONS ADDENDUM 001

15

13-20102-00 POWER FIRST LEVEL PLAN -AREA C

E2.1C

1/8" = 1'-0"

2L1C-18 (PART)

___2L1¢-65 (

ICE MACHINE 5

E23

STUDENT RESTROOM -

2C1C-12

2C1C-11



. ___ :

2C1C-7

2C1C-9 🖊 (PART)

2L1C-43

2L1C-19

2C1C-25

(PART)

STAIR 4

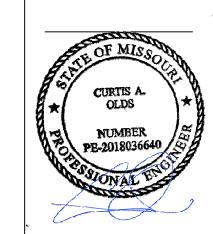
^月 2C1C-31

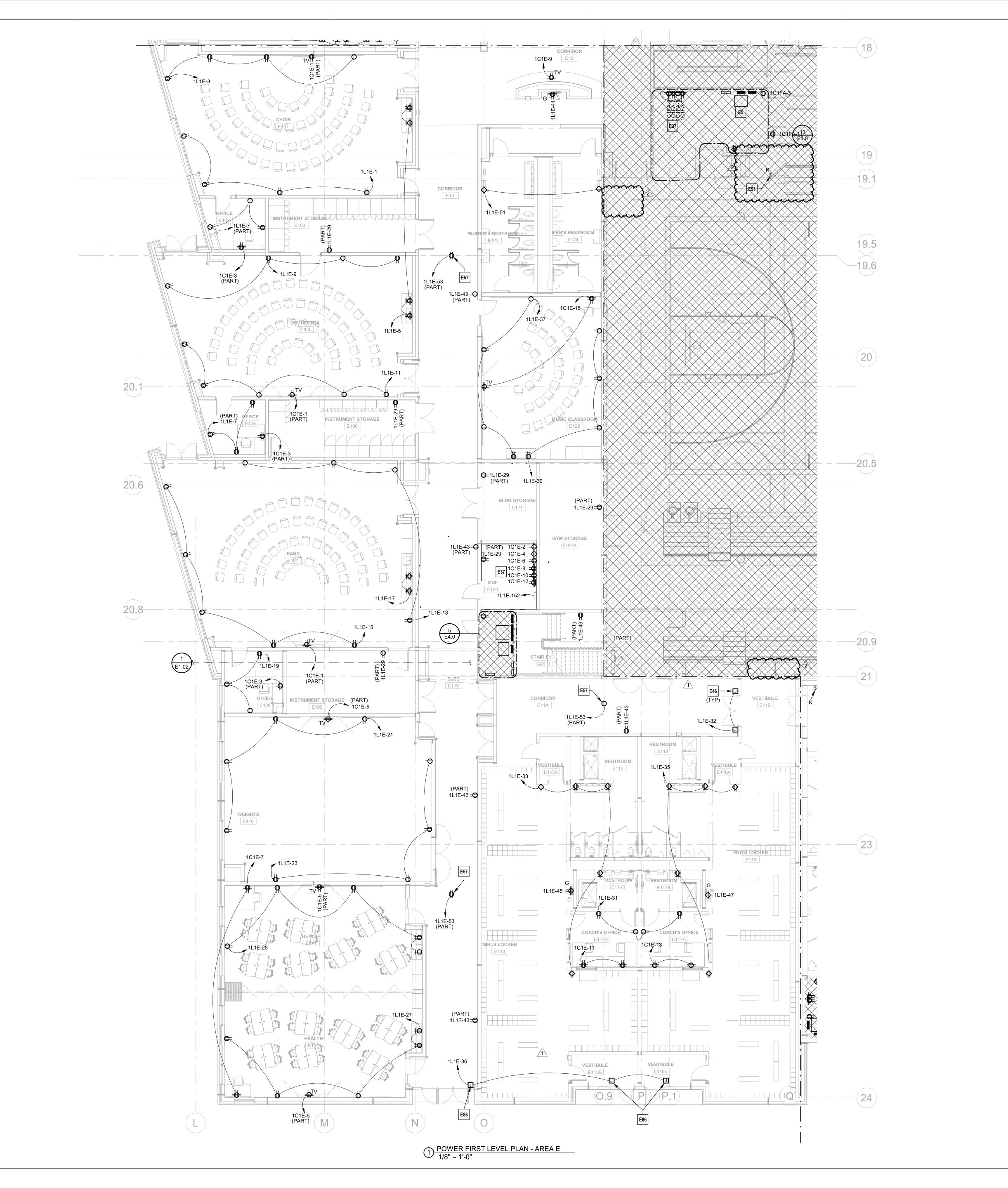
2L1C-31 2L1C-29

2C1C-8



CONSTRUCTION AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI





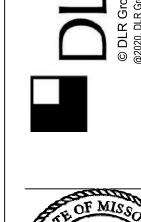
ELECTRICAL PLAN NOTES:

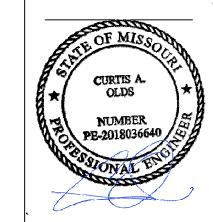
- E5 TRANSFORMER TO BE SUSPENDED, RE: 2/E5.01 FOR SUSPENDED MOUNTING DETAIL. WHERE SHOWN ADJACENT TO TRANSFORMER, THIS TRANSFORMER SHALL BE
- SUSPENDED ABOVE. E37 CONTRACTOR TO COORDINATE TECHNOLOGY EQUIPMENT LAYOUT IN THIS ROOM WITH SECURITY AND TECHNOLOGY PLANS PRIOR TO BEGINNING ANY WORK. ADJUST RECEPTACLE AND POWER ROUGH-IN LOCATIONS TO
- ACCOMMODATE EQUIPMENT LAYOUT. E46 CONTRACTOR TO PROVIDE POWER FOR MAGNETIC DOOR HOLDS. COORDINATE ROUGH-IN LOCATIONS AND INSTALLATION REQUIREMENTS WITH SECURITY PLANS/CONTRACTOR, AND FIRE ALARM
- PLANS/CONTRACTOR, ARCHITECTURAL PLANS AND EQUIPMENT MANUFACTURER'S SPECIFICATIONS PRIOR TO BEGINNING ANY WORK. E57 POWER CONNECTION FOR DOUBLE SIDED DIGITAL CLOCK.
- COORDINATE CONNECTION REQUIREMENTS WITH MANUFACTURER.
- E86 PROVIDE POWER CONNECTION TO DOOR HARDWARE POWER SUPPLY. COORDINATE EXACT LOCATION AND
- ROUGH-IN REQUIREMENTS WITH ARCHITECT AND DOOR HARDWARE MANUFACTURER PRIOR TO ROUGH-IN. E91 COORDINATE EXACT LOCATION OF EQUIPMENT MANUFACTURER PROVIDED SKYFOLD WALL LOW VOLTAGE OPEN/CLOSE KEYED SWITCHES WITH ARCHITECT PRIOR TO BEGINNING ANY WORK. RE: DETAIL 7/E502

CONSTRUCTION AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI





CURTIS A. OLDS 19 2020 LICENSE # PE-2018036640

PACKAGE 3 - BUILDING &

REVISIONS ADDENDUM 001 ADDENDUM 002

Α 13-20102-00 POWER FIRST LEVEL PLAN -AREA E

KEY PLAN

E2.1E

PRECAST ROUGH-IN NOTES:

- 1. COORDINATE ALL DEVICE LOCATIONS PRIOR TO BEGINNING ANY WORK. DEVICE LOCATIONS SHOULD BE ADJUSTED SO THAT THEY DO NOT FALL ON PRECAST
- 2. GYMNASIUM IS PRE-CAST CONCRETE CONSTRUCTION AND TO BE ROUGH-IN BY ELECTRICAL CONTRACTOR. ALL DEVICE FINISH RINGS SHALL BE FLUSH WITH THE SURFACE OF THE CONCRETE.
- 3. CONDUIT ROUGH-INS FOR ELECTRICAL LIGHTING AND POWER, EXIT SIGNS, FIRE ALARM, TELECOMMUNICATIONS, AUDIO-VISUAL, SCOREBOARD, AND DOOR SECURITY EQUIPMENT SHALL BE ROUTED VERTICALLY IN PRECAST WALL AND STUBBED INTO GYMNASIUM NEAR CEILING (BY OTHERS) FOR CONNECTION(S) TO WIRE WAYS AND/OR JUNCTION
- 4. EXTERIOR LIGHT FIXTURE CIRCUITS TO BE ROUTED TO LIGHTING CONTROL PANEL.
- 5. COORDINATE EXACT ROUGH-IN LOCATIONS FOR OTHER DISCIPLINES. REFER TO MECHANICAL PLANS FOR MECHANICAL CONTROLS DEVICE ROUGH-IN LOCATIONS AND REQUIREMENTS. REFER TO FIRE PROTECTION PLANS FOR FIRE PROTECTION DEVICE. REFER TO TECHNOLOGY PLANS FOR AUDIO VISUAL AND TELECOMMUNICATIONS DEVICE ROUGH-IN LOCATIONS AND REQUIREMENTS. REFER TO SECURITY PLANS FOR SECURITY IN DEVICE ROUGH-IN LOCATIONS AND REQUIREMENTS.
- 6. SCORE BOARD ROUGH-IN REQUIREMENTS TO BE COORDINATED WITH SCOREBOARD MANUFACTURER'S SPECIFICATIONS AND ARCHITECT. PROVIDE 1" CONDUIT FOR CONTROLS.
- 7. REFER TO ELECTRICAL NOTES FOR ADDITIONAL

■ ELECTRICAL PLAN NOTES:

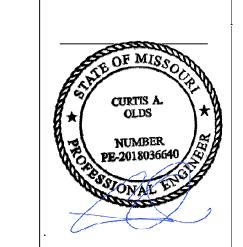
ROUGH-IN.

- E19 POWER CONNECTION FOR OWNER PROVIDED EQUIPMENT. CONFIRM REQUIREMENTS WITH OWNER PRIOR TO
- E46 CONTRACTOR TO PROVIDE POWER FOR MAGNETIC DOOR HOLDS. COORDINATE ROUGH-IN LOCATIONS AND INSTALLATION REQUIREMENTS WITH SECURITY PLANS/CONTRACTOR, AND FIRE ALARM PLANS/CONTRACTOR, ARCHITECTURAL PLANS AND EQUIPMENT MANUFACTURER'S SPECIFICATIONS PRIOR TO BEGINNING ANY WORK.
- E68 CONTRACTOR TO PROVIDE POWER FOR MOTORIZED BLEACHERS. COORDINATE EQUIPMENT SELECTION AND CONTROLS LOCATION WITH ARCHITECT. COORDINATE NUMBER OF CONNECTIONS AND INSTALLATION REQUIREMENTS WITH EQUIPMENT MANUFACTURER'S SPECIFICATIONS.
- E80 APPROXIMATE LOCATION OF LOW VOLTAGE ROUGH-IN FOR WALL MOUNTED ICC 500 SHELTER LOUVERS. CONTRACTOR TO PROVIDE CONDUITS, AND JUNCTION BOXES FOR EQUIPMENT CONNECTIONS. COORDINATE QUANTITY OF CONDUITS AND JUNCTION BOXES, ROUGH-IN LOCATIONS AND INSTALLATION REQUIREMENTS WITH MECHANICAL PLANS AND EQUIPMENT MANUFACTURER'S SPECIFICATIONS PRIOR TO BEGINNING ANY WORK. CONDUITS TO BE INSTALLED IN PRECAST WALL AND BOX TO BE MOUNTED UNDER LOUVER
- E81 APPROXIMATE LOCATION OF LOW VOLTAGE SWITCH FOR MANUAL OPERATION OF GYMNASIUM LOUVERS. COORDINATE EQUIPMENT SELECTION, EXACT LOCATION AND INSTALLATION REQUIREMENTS WITH MECHANICAL PLANS AND EQUIPMENT MANUFACTURER'S SPECIFICATIONS PRIOR TO BEGINNING ANY WORK
- E90 SKYFOLD MOTORIZED PARTITION MOTOR SIZE HAS NOT BEEN PROVIDED TO ENGINEER. CONTRACTOR TO COORDINATE EXACT EQUIPMENT SELECTION AND ELECTRICAL INFORMATION WITH EQUIPMENT MANUFACTURER'S SPECIFICATIONS AND PROVIDE ALTERATIONS TO WIRE SIZE, BREAKER SIZE, FUSED DISCONNECT AND FUSES SIZES AS NEEDED. COORDINATE ALL INSTALLATION REQUIREMENTS PRIOR TO ROUGH-IN. RE: DETAIL 7/E502
- E91 COORDINATE EXACT LOCATION OF EQUIPMENT MANUFACTURER PROVIDED SKYFOLD WALL LOW VOLTAGE OPEN/CLOSE KEYED SWITCHES WITH ARCHITECT PRIOR TO BEGINNING ANY WORK. RE: DETAIL 7/E502

RELEASE FOR CONSTRUCTION

LEE'S SUMMIT, MISSOURI





Dec 2 2020 CURTIS A. OLDS LICENSE # PE-2018036640

HENDERSON ENGINEERS

PACKAGE 3 - BUILDING & 10/08/20

REVISIONS ADDENDUM 001 ADDENDUM 002 ASI 003

13-20102-00

KEY PLAN

POWER FIRST LEVEL PLAN -AREA F

E2.1F

E19 POWER CONNECTION FOR OWNER PROVIDED EQUIPMENT.
CONFIRM REQUIREMENTS WITH OWNER PRIOR TO
ROUGH-IN.

E35 CONTRACTOR TO PROVIDE RECEPTACLE FOR TERSANO CHEMICAL DISPENSING SYSTEM IN JANITOR'S CLOSET. COORDINATE EXACT LOCATION, MOUNTING HEIGHT AND ROUGH-IN REQUIREMENTS WITH ARCHITECT AND MANUFACTURER'S SPECIFICATIONS.

E36 CONTRACTOR TO PROVIDE ROUGH-IN FOR FLOOR CLEANING EQUIPMENT CHARGING STATIONS. COORDINATE EXACT LOCATION, MOUNTING HEIGHT AND ROUGH-IN REQUIREMENTS WITH ARCHITECT AND MANUFACTURER'S SPECIFICATIONS.

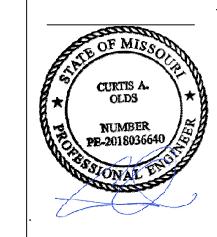
E57 POWER CONNECTION FOR DOUBLE SIDED DIGITAL CLOCK.
COORDINATE CONNECTION REQUIREMENTS WITH MANUFACTURER

E86 PROVIDE POWER CONNECTION TO DOOR HARDWARE POWER SUPPLY. COORDINATE EXACT LOCATION AND ROUGH-IN REQUIREMENTS WITH ARCHITECT AND DOOR HARDWARE MANUFACTURER PRIOR TO ROUGH-IN.

ELECTRICAL PLAN NOTES:

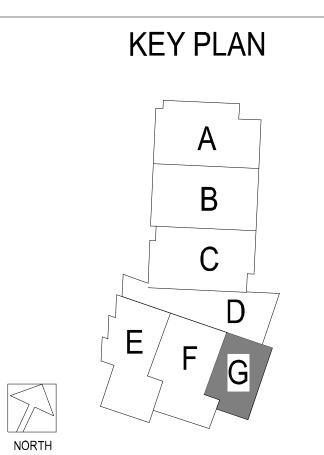
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RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI



Oct 13 2020 CURTIS A. OLDS LICENSE # PE-2018036640

PACKAGE 3 - BUILDING & 10/08/20 REVISIONS ADDENDUM 001



13-20102-00 POWER FIRST LEVEL PLAN -AREA G

E2.1G

RECEPTACLE AND POWER ROUGH-IN LOCATIONS TO ACCOMMODATE EQUIPMENT LAYOUT.

E45 RECEPTACLE MOUNTED TO FURNITURE OR MILLWORK ISLAND OR HALF HEIGHT PARTITION. CONTRACTOR TO PROVIDE 3/4" CONDUIT UNDERSLAB FOR RECEPTACLE POWER. COORDINATE EXACT STUB UP LOCATIONS AND INSTALLATION REQUIREMENTS WITH ARCHITECTURAL PLANS AND MILLWORK PLANS. COORDINATE WITH TECHNOLOGY PLANS IF ADDITIONAL CONDUITS FOR LOW

VOLTAGE ARE REQUIRED. PROVIDE ADDITIONAL CONDUITS
AS NEEDED FOR LOW VOLTAGE CONNECTIONS.

E46 CONTRACTOR TO PROVIDE POWER FOR MAGNETIC DOOR
HOLDS. COORDINATE ROUGH-IN LOCATIONS AND
INSTALLATION REQUIREMENTS WITH SECURITY
PLANS/CONTRACTOR, AND FIRE ALARM
PLANS/CONTRACTOR, ARCHITECTURAL PLANS AND
EQUIPMENT MANUFACTURER'S SPECIFICATIONS PRIOR TO

BEGINNING ANY WORK.

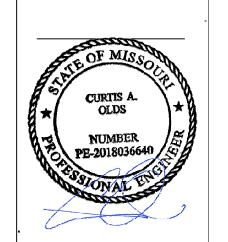
E47 VESTIBULE IS SEPARATED FROM SURROUNDING BUILDING
BY A 1-HOUR FIRE RATED PARTITION. CONTRACTOR TO
SEAL PENETRATIONS WITH APPROPRIATE FIRE RATED
SEALANT TO MAINTAIN FIRE RATING. CONFIRM ALL FIRE
RATINGS WITH ARCHITECTURAL PLANS PRIOR TO
BEGINNING ANY WORK.

E57 POWER CONNECTION FOR DOUBLE SIDED DIGITAL CLOCK.
COORDINATE CONNECTION REQUIREMENTS WITH
MANUFACTURER.

E67 POWER CONNECTION FOR KILN VENT FAN. COORDINATE FINAL LOCATION WITH ARCHITECT AND MANUFACTURER.
 E70 POWER CONNECTION FOR KILN. COORDINATE FINAL LOCATION AND REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.

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RELEASE FOR
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AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI



Oct 8 2020 CURTIS A. OLDS LICENSE # PE-2018036640

HENDERSON

ENGINEERS

8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214

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1950005054

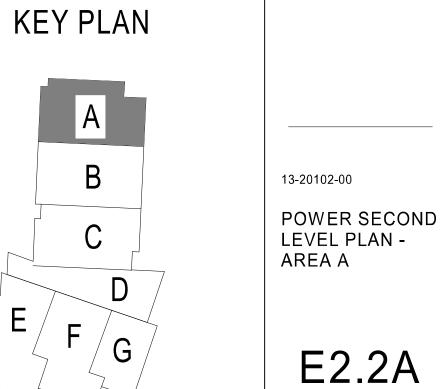
MO. CORPORATE NO: E-556D

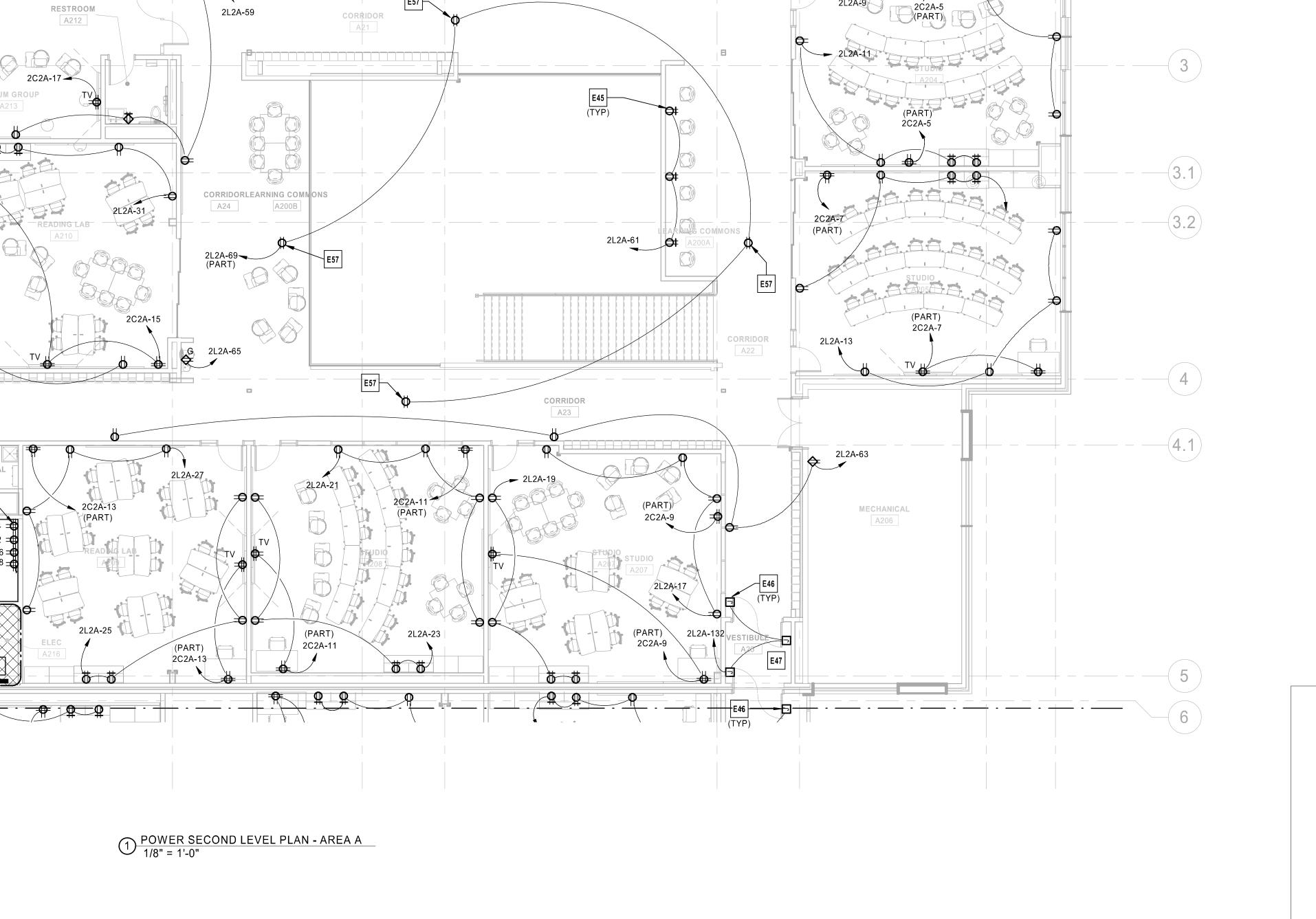
EXPIRES 12/31/2020

UMMIT MIDDLE SCHOOL #4

LEE'S SUMMIT R-7 SCHOOL DIST

PACKAGE 3 - BUILDING & SITE
10/08/20
REVISIONS





2C2A-3 TV

KILN A218A

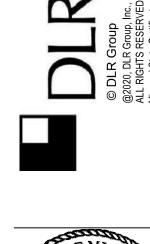
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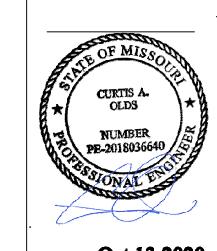
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MECHANICAL

B207

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI





CURTIS A. OLDS 13 2020 LICENSE # PE-2018036640

PACKAGE 3 - BUILDING & 10/08/20 REVISIONS

ADDENDUM 001

13-20102-00

AREA B

POWER SECOND LEVEL PLAN -

E2.2B

KEY PLAN

1/8" = 1'-0"

2C2B-39 = 0 2C2B-37 = 0 2C2B-33 = 0 T\ 2C2B-35 = 0

STORAGE

(PART)≆ 2C2B-1

2C2B-16 2C2B-18

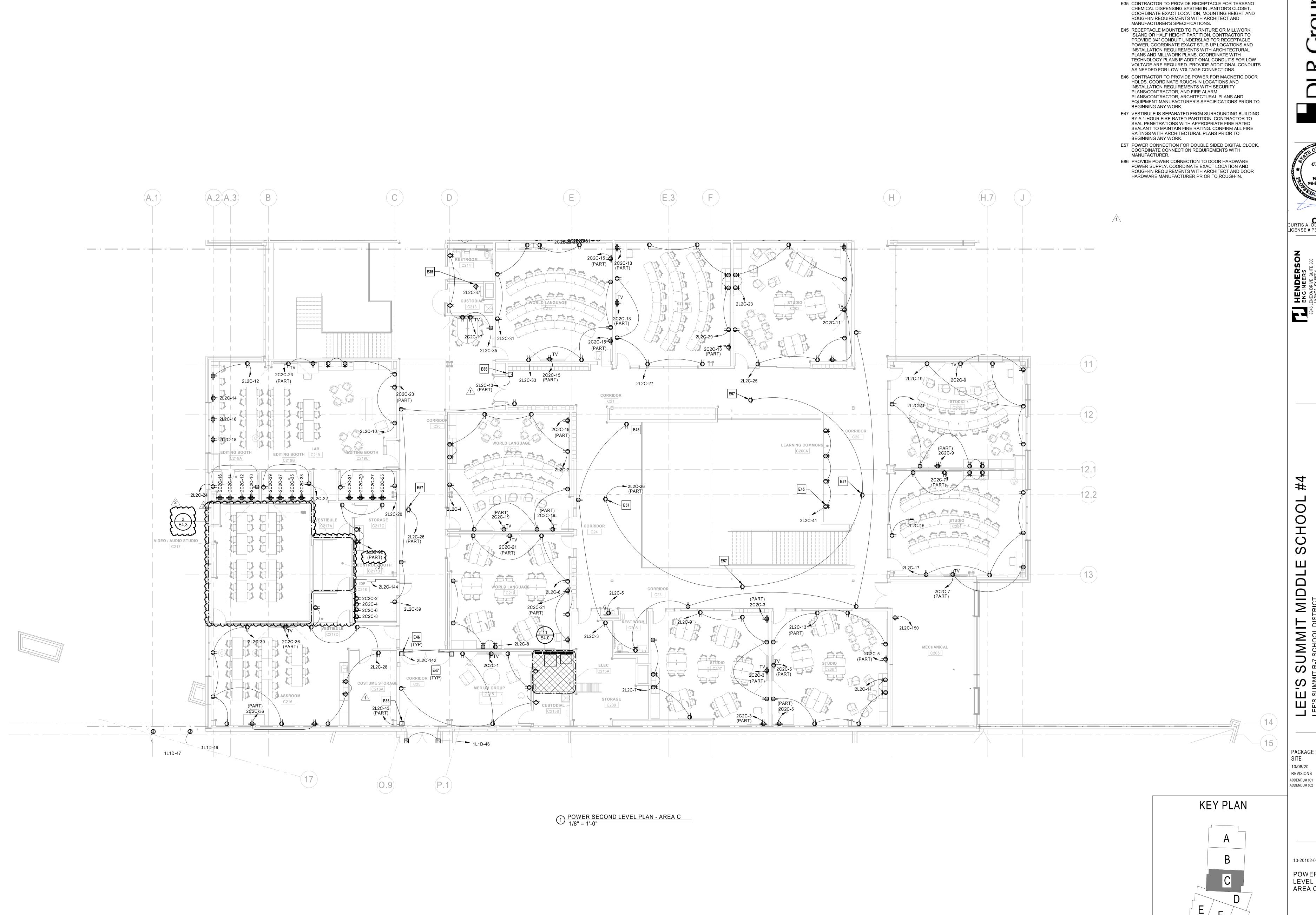
2L2B-52 2C2B-42

2L2B-62 DISPOSAL

2L2B-88 —2L2B-86

2L2B-20 2L2B-18

2L2B-30

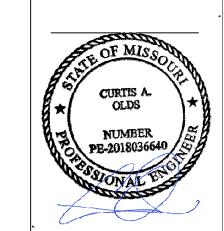


ELECTRICAL PLAN NOTES:

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

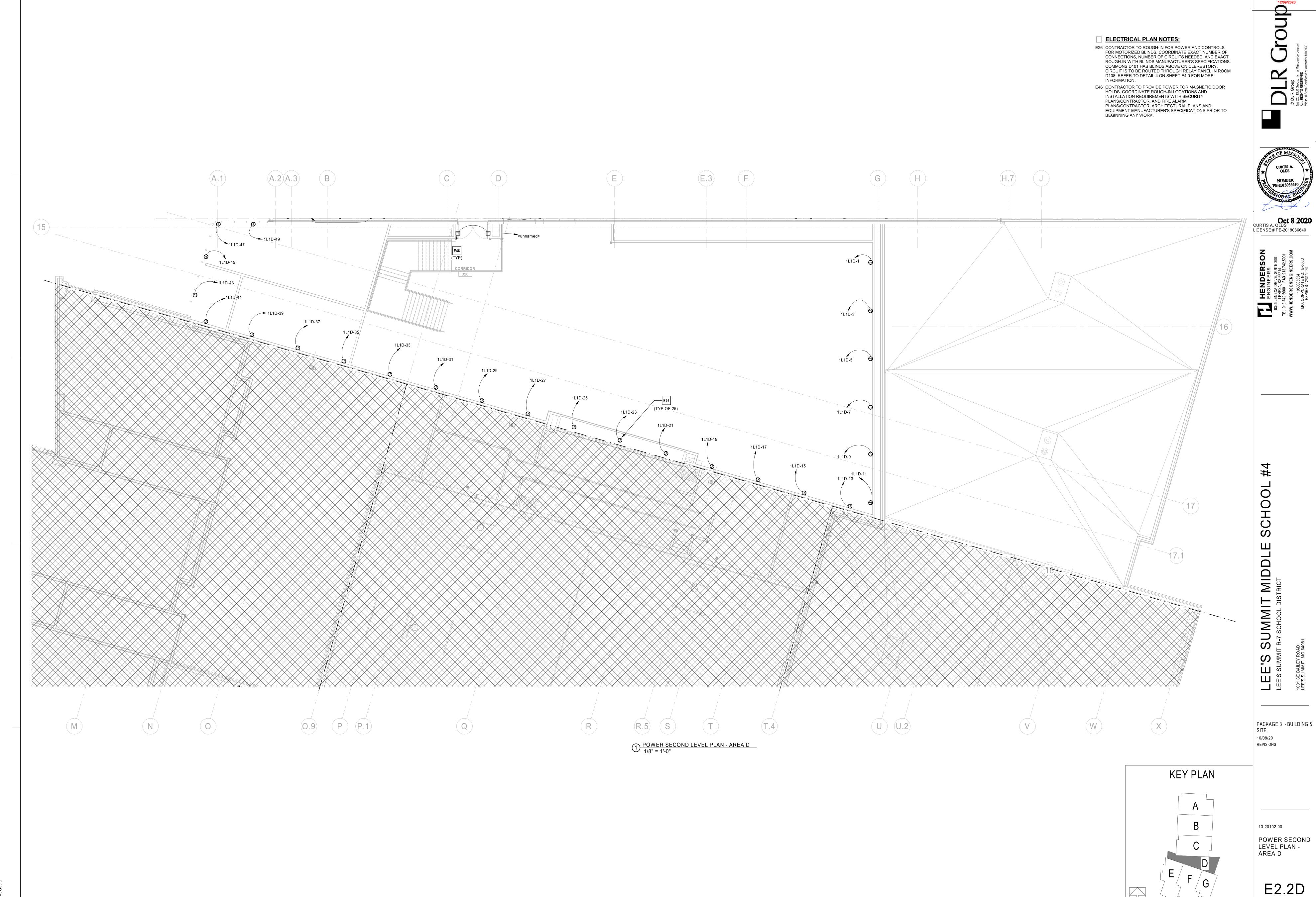


Oct 19 2020 LICENSE # PE-2018036640

PACKAGE 3 - BUILDING & SITE

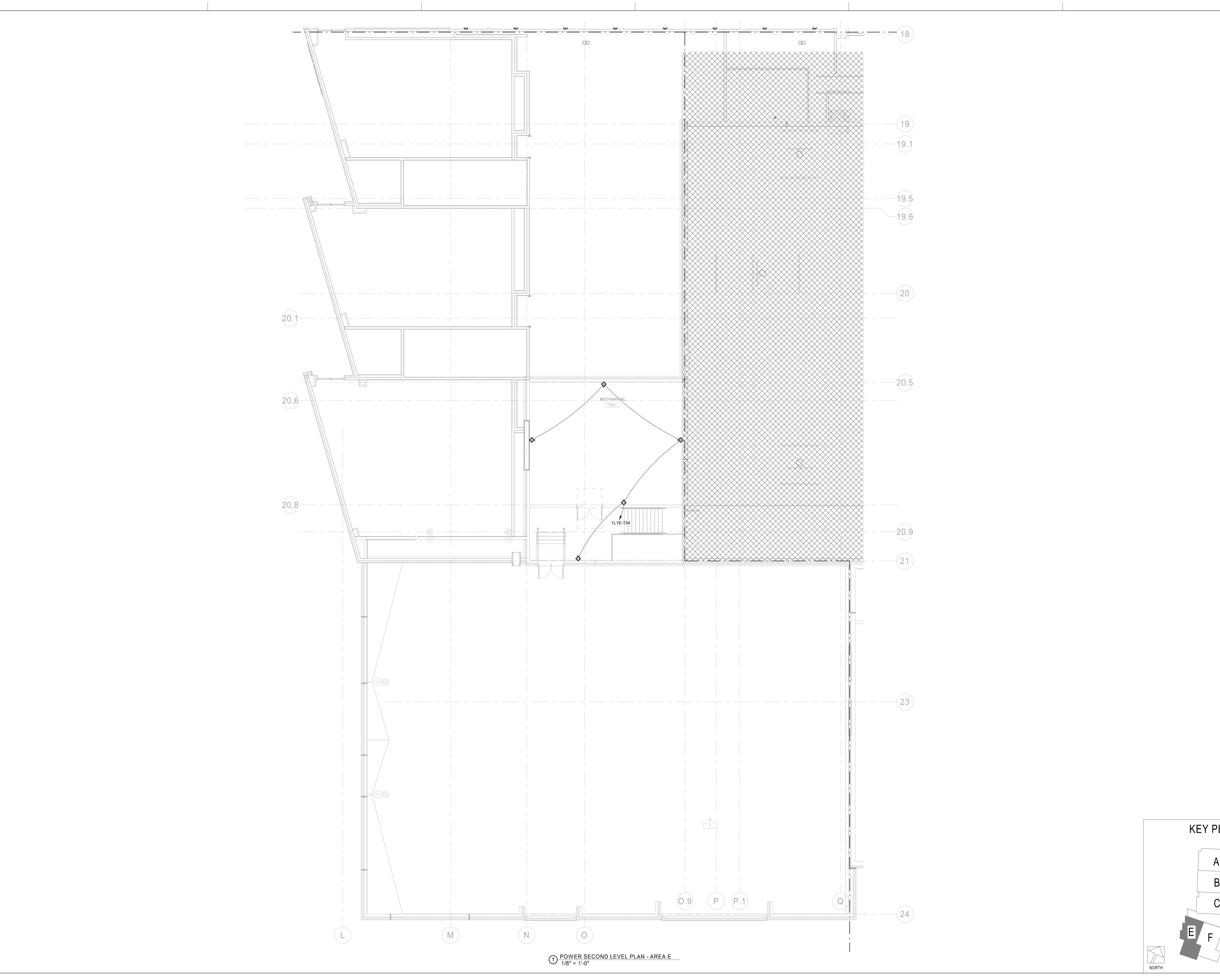
13-20102-00 POWER SECOND LEVEL PLAN -AREA C

E2.2C



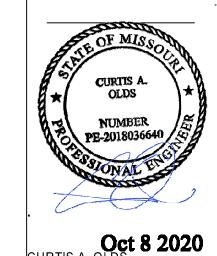
RELEASE FOR

CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

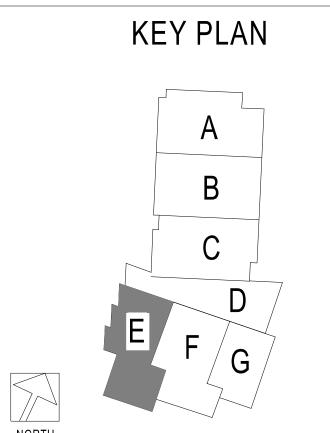


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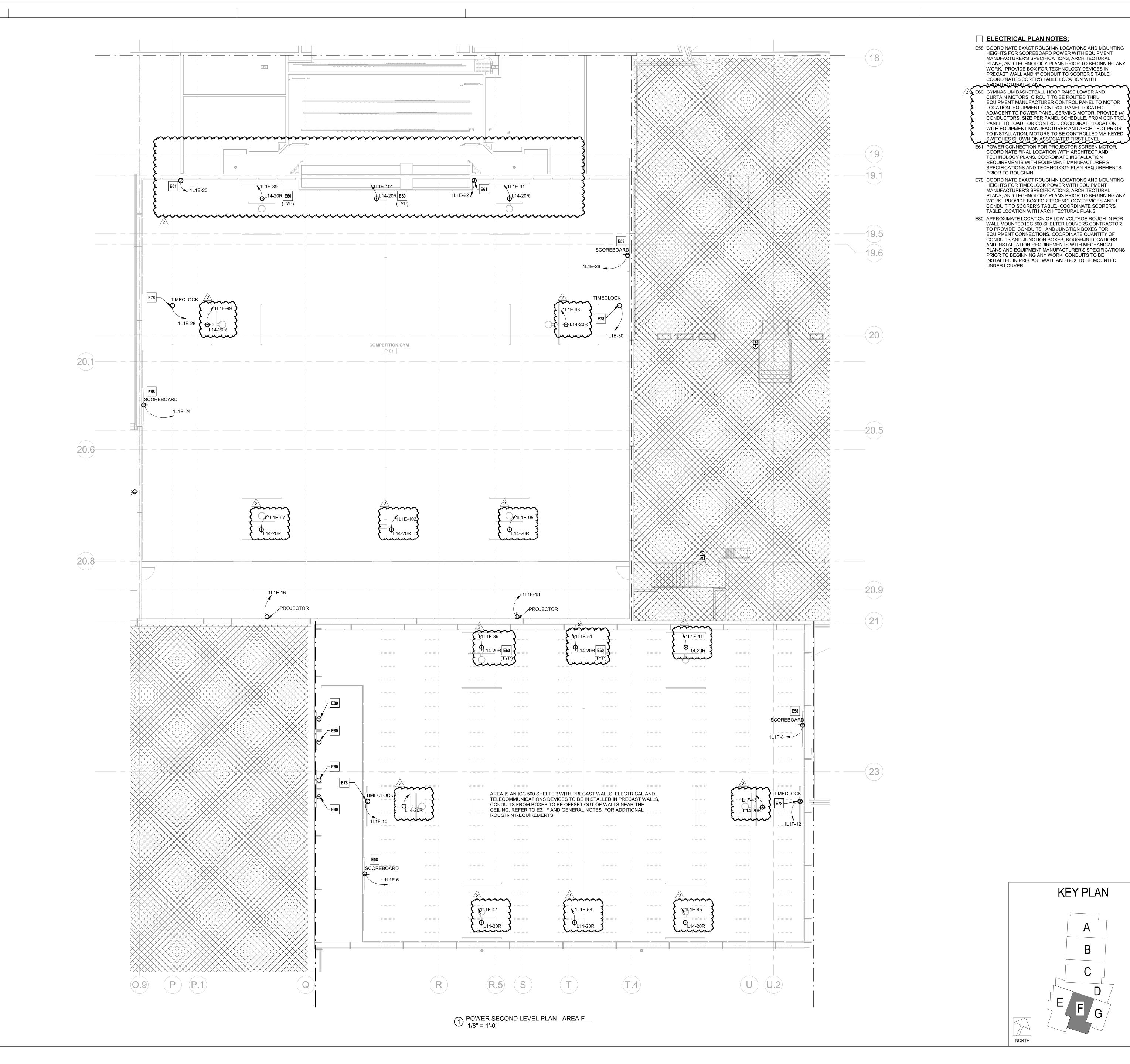
PACKAGE 3 - BUILDING & SITE 10/08/20 REVISIONS



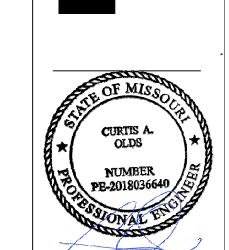
E2.2E

POWER SECOND LEVEL PLAN -AREA E

13-20102-00



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DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI



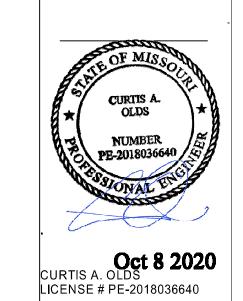
CURTIS A. OLDS LICENSE # PE-2018036640

REVISIONS

Α 13-20102-00 POWER SECOND LEVEL PLAN -AREA F

E2.2F

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AS NOTED ON PLANS REVIEW
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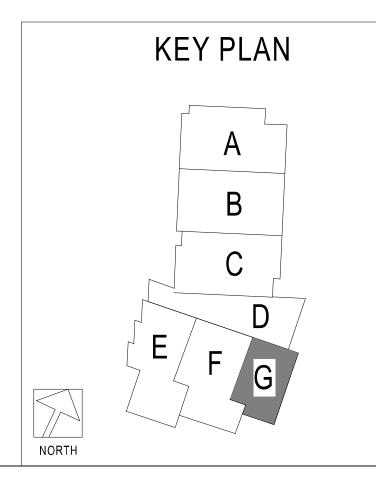


PACKAGE 3 - BUILDING & SITE 10/08/20 REVISIONS

13-20102-00

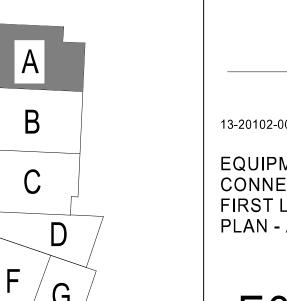
POWER SECOND LEVEL PLAN -AREA G

E2.2G



CONSTRUCTION

LEE'S SUMMIT, MISSOURI



EQUIP CONN. - LVL1 - AREA A LOCATION PANEL CIRCUIT NOTES LVL1 - AREA A 2H1A 38,40,42 LVL1 - AREA A 2H1A 26,28,30 DC 2 LVL1 - AREA A 2H1A 32,34,36 COMPUTER ROOM - INDOOR LVL1 - AREA A 2L1A CR 2 LVL1 - AREA A 2L1A 166,168 LVL1 - AREA A 2H1A 20,22,24 Gas Water Heater LVL1 - AREA A 2L1A LVL1 - AREA A 2L1A RHWP 1 LVL1 - AREA A 2L1A 142 LVL1 - AREA A 2L1A 160 VARIABLE FREQUENCY DRIVES VFD 8 LVL1 - AREA A 2H1A 20,22,24 VAV BOX HYDRONIC VAV 101 LVL1 - AREA A VAV 102 LVL1 - AREA A VAV 117 LVL1 - AREA A 2L1A **GENERAL NOTES:**

- 1. COORDINATE ALL FINAL CONNECTIONS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-INS. 2. REFER TO MECHANICAL SCHEDULES FOR ADDITIONAL INFORMATION WITHIN
- DIVISION 26 SCOPE SUCH AS INTERLOCKING WITH CONTROLS OR OTHER 3. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH DIVISION 22 AND 23
- CONTRACTORS TO PROVIDE EXACT POWER REQUIREMENTS FOR ALL SUBMITTED EQUIPMENT THAT DIFFERS FROM THE BASIS OF DESIGN.

- A. DISCONNECTING MEANS (FRACTIONAL HP SWITCH, (FUSED) DISCONNECT SWITCH) AND/OR CONTROLLER (STARTER, VFD) PROVIDED BY DIVISION 23 CONTRÁCTOR OR FACTORY MOUNTED. B. PROVIDE UNIT MOUNTED FRACTIONAL HP MOTOR RATED SWITCH AS
- DISCONNECTING MEANS. C. INDOOR UNIT OF SPLIT SYSTEM POWERED VIA OUTDOOR CONDENSING UNIT. REFER TO MANUFACTURER'S INSTRUCTIONS FOR PROPER INSTALLATION. D. DISCONNECTING MEANS PROVIDED VIA CORD AND PLUG CONNECTION.
- E. LINE VOLTAGE POWER CONNECTED TO DIVISION 23 PROVIDED LOW VOLTAGE, UNIT MOUNTED, EQUIPMENT TRANSFORMER. RE: MECHANICAL PLANS FOR ADDITIONAL REQUIREMENTS. F. DISCONNECTING MEANS PROVIDED BY LOCKABLE CIRCUIT BREAKER, RE: ONE-
- LINE DIAGRAM (E8.X) OR PANEL SCHEDULES (E6.X). G. EQUIPMENT PROVIDED BY DIVISION 23 CONTRACTOR, INSTALLED BY DIVISION 26 CONTRACTOR. CONTRACTOR SHALL CONFIRM CONTROLLER/EQUIPMENT
- PAIRING WITH MECHANICAL PLANS AND SCHEDULES. H. MAKE UP AIR UNIT HAS TWO POWER CONNECTIONS. CIRCUIT AS SHOWN ON PLAN. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER. I. DIVISION 26 CONTRACTOR TO PROVIDE ALL INTERCONNECTION BETWEEN
- FULLY FUNCTIONAL SYSTEM. COORDINATE REQUIREMENTS WITH MANUFACTURER. J. DIVISION 26 CONTRACTOR TO PROVIDE ALL INTERCONNECTION BETWEEN DISHWASHER EXHAUST HOOD AND ROOF MOUNTED EQUIPMENT TO PROVIDE
- A FULLY FUNCTIONAL SYSTEM. COORDINATE REQUIREMENTS WITH MANUFACTURER. K. DIVISION 26 CONTRACTOR TO PROVIDE NON-FUSED/FUSED SWITCH SIZED PER EQUIPMENT MANUFACTURER'S SPECIFICATIONS AND NEC.

L. PROVIDE AN INTEGRAL HORSEPOWER MANUAL CONTROLLER WITH AUXILIARY CONTACT TO PROVIDE DISCONNECTING MEANS AND INTERFACE WITH BAS

KITCHEN EXHAUST HOOD AND ROOF MOUNTED EQUIPMENT TO PROVIDE A

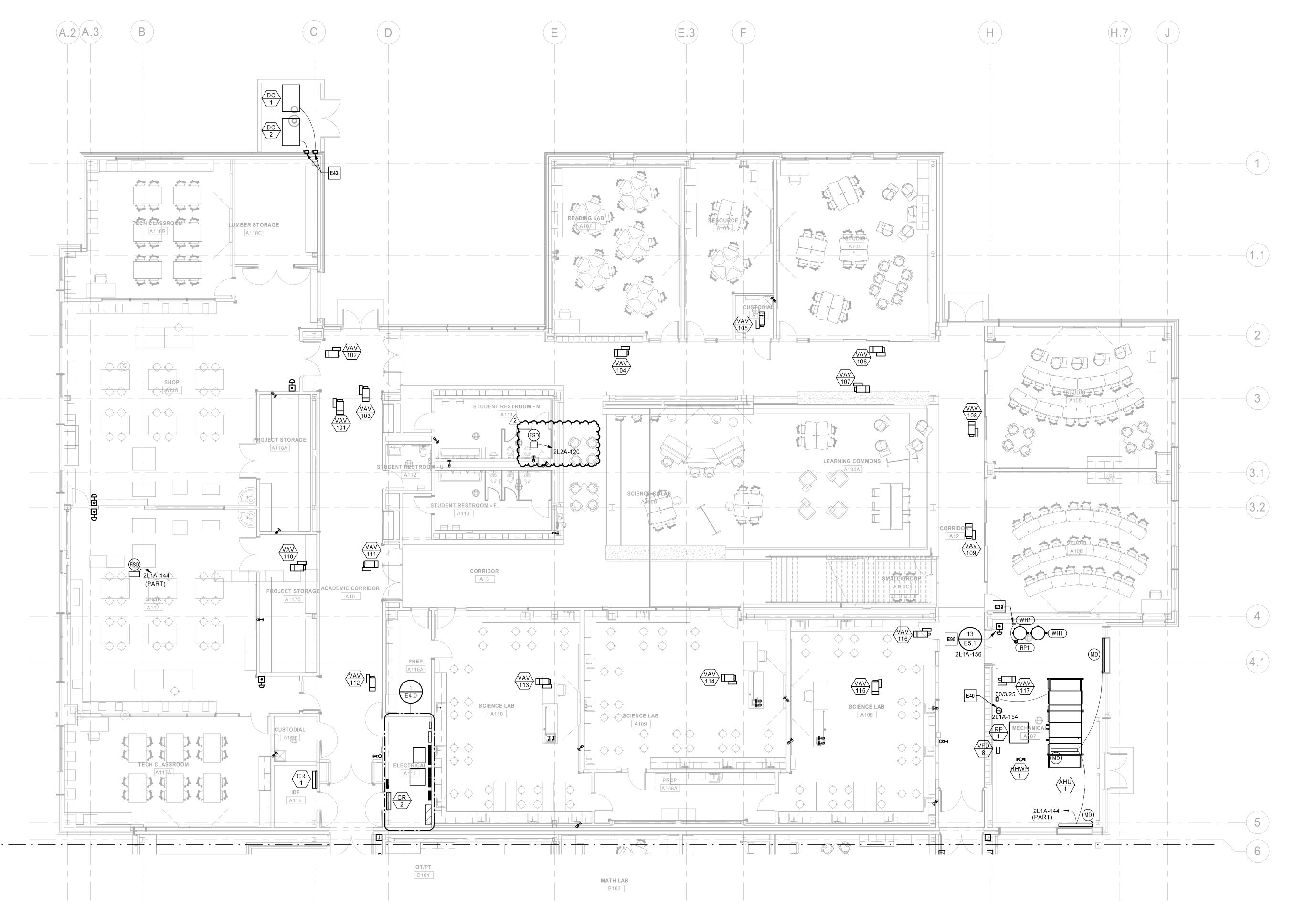
SYSTEM. COORDINATE REQUIREMENTS WITH BAS SYSTEM. **ELECTRICAL PLAN NOTES:**

E39 CONTRACTOR TO PROVIDE CONNECTION FOR CIRCULATION PUMP TIMER TO BE FED FROM SAME CIRCUIT AS CIRCULATION PUMP. COORDINATE INSTALLATION REQUIREMENTS WITH EQUIPMENT MANUFACTURER'S SPECIFICATIONS AND PLUMBING PLANS.

- E40 CONTRACTOR TO PROVIDE 120V POWER CONNECTION FOR MECHANICAL CONTROL PANEL. COORDINATE INSTALLATION REQUIREMENTS WITH
- EQUIPMENT MANUFACTURER'S SPECIFICATIONS. E42 DUCT COLLECTOR SUPPLY POWER CONNECTION TO EQUIPMENT MOUNTED CONTROL PANEL. PROVIDE ALL LINE (120V THRU 480V) AND LOW VOLTAGE (24V) WIRING INTERCONNECTIONS REQUIRED PER MFR REQUIREMENTS - (1) 480V BLOWER MOTOR, APPROXIMATELY (20) 120V CONTROL WIRING CONNECTIONS (RELAY PANEL CONNECTIONS, SPARK DETECTION PANEL, CLEANING MODE RELAY, SOLENOID HEATER MODULE, SOLENOID CONTROL

WIRING, BROKEN BAG ALARM, AND HOPPER/DRUM HIGH LEVEL SENSOR), 24V REMOTE START SIGNAL WIRING (RE: MECHANICAL PLANS FOR LOCATION),

AND (1) SINGLE PAIR TWISTED FOR BACNET COMMUNICATIONS. E95 PROVIDE EMERGENCY SHUTOFF BUTTON FOR BOILERS. PROVIDE WITH RED PLACARD ABOVE BUTTON STATING "BOILER EMERGENCY SHUTOFF" IN 1/4" WHITE LETTERING.



1/8" = 1'-0"

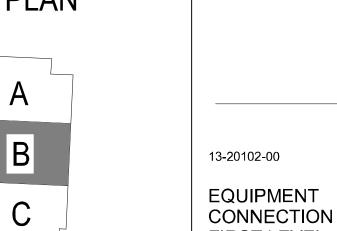
KEY PLAN

13-20102-00 EQUIPMENT CONNECTION FIRST LEVEL PLAN - AREA A

E3.1A

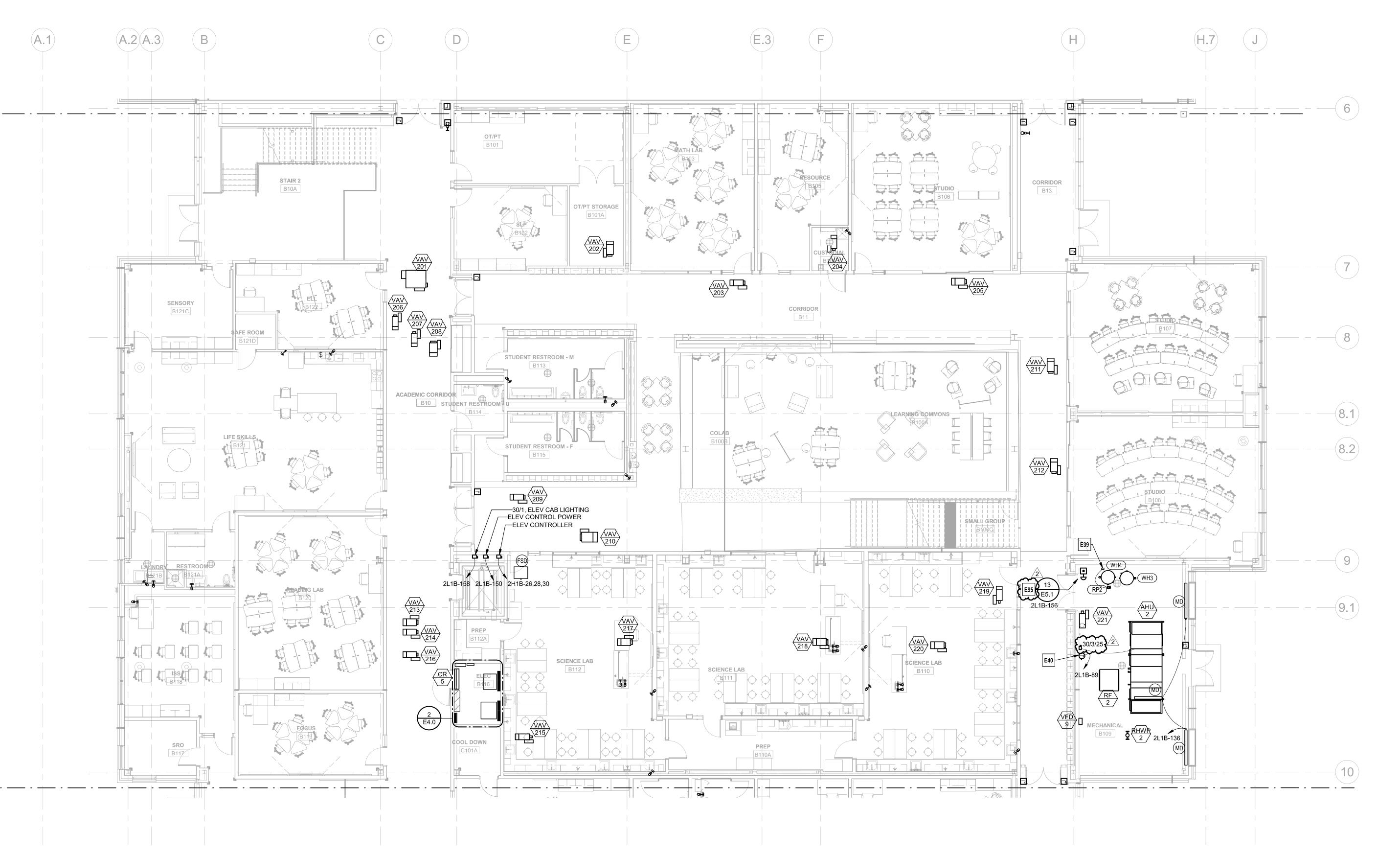
CONSTRUCTION AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI

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FIRST LEVEL PLAN - AREA B E3.1B

KEY PLAN



GENERAL NOTES:

VAV 218

VAV 220

VAV 221

AHU 2 SUPPLY COMPUTER ROOM - INDOOR CR 5

ELEVATOR SUMP PUMP ESP1

VAV 201

RHWP 2

VFD 9

VAV 203 VAV 204

VAV BOX HYDRONIC VAV 202

VARIABLE FREQUENCY DRIVES

Recirculation Pump RP2

Gas Water Heater

MECH PUMP

FAN POWERED VAV BOX HYDRONIC

1. COORDINATE ALL FINAL CONNECTIONS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-INS. 2. REFER TO MECHANICAL SCHEDULES FOR ADDITIONAL INFORMATION WITHIN DIVISION 26 SCOPE SUCH AS INTERLOCKING WITH CONTROLS OR OTHER 3. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH DIVISION 22 AND 23 CONTRACTORS TO PROVIDE EXACT POWER REQUIREMENTS FOR ALL SUBMITTED EQUIPMENT THAT DIFFERS FROM THE BASIS OF DESIGN.

LVL1 - AREA B 2H1B 32,34,36

LVL1 - AREA B 2L1B 166,168

LVL1 - AREA B 2L1B 152

LVL1 - AREA B 2L1B 164

LVL1 - AREA B 2L1B 138

LVL1 - AREA B 2L1B 162

LVL1 - AREA B 2H1B 38,40,42

LVL1 - AREA B 2L1B LVL1 - AREA B 2L1B

LVL1 - AREA B LVL1 - AREA B

LVL1 - AREA B LVL1 - AREA B

LVL1 - AREA B LVL1 - AREA B LVL1 - AREA B

LVL1 - AREA B 2L1B

LVL1 - AREA B 2L1B LVL1 - AREA B 2L1B LVL1 - AREA B 2L1B

LVL1 - AREA B 2L1B LVL1 - AREA B 2L1B LVL1 - AREA B 2L1B LVL1 - AREA B 2L1B LVL1 - AREA B 2L1B

LVL1 - AREA B 2L1B

LVL1 - AREA B 2L1B

LVL1 - AREA B 2L1B

LVL1 - AREA B 2L1B

LVL1 - AREA B 2H1B 38,40,42

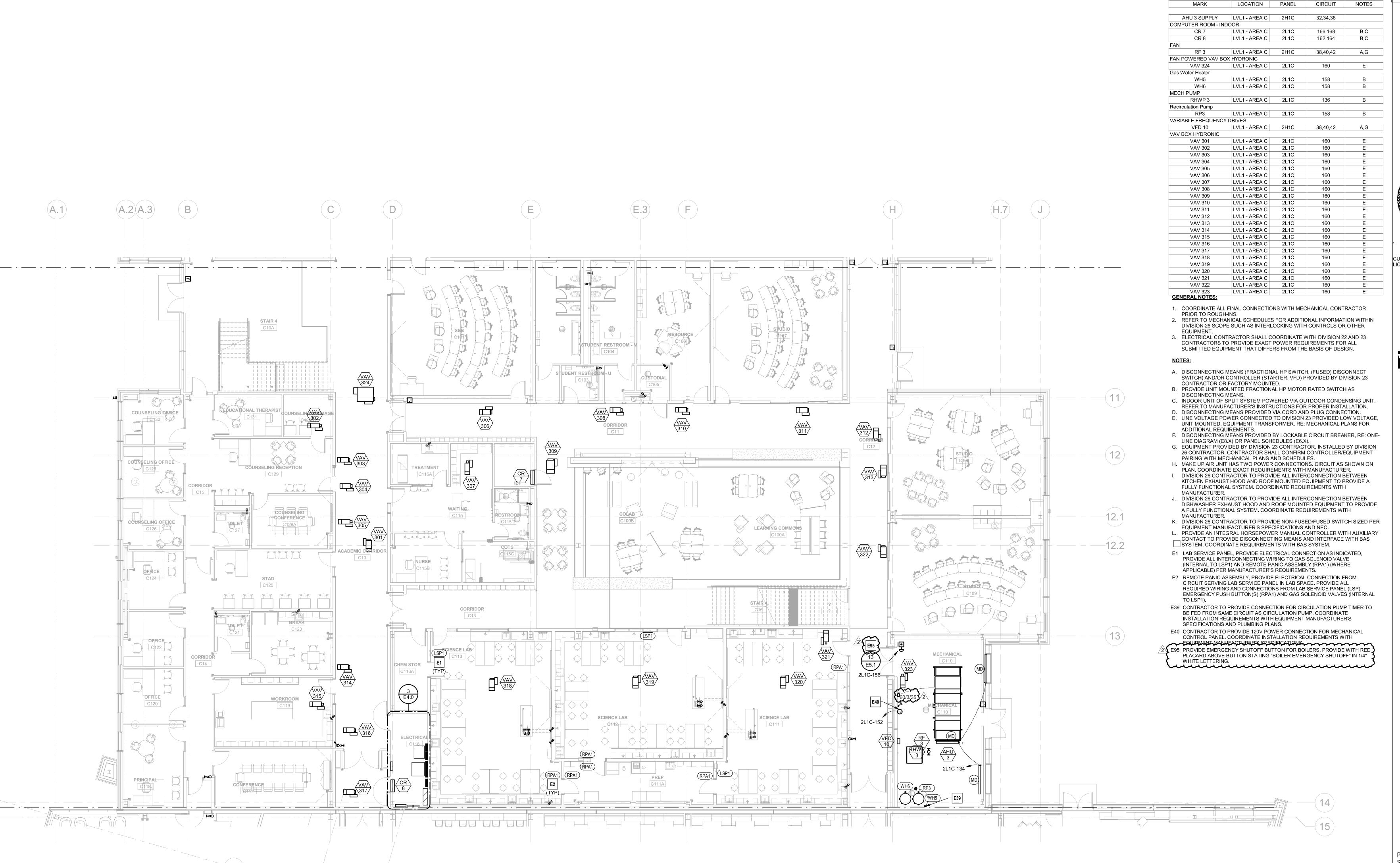
- A. DISCONNECTING MEANS (FRACTIONAL HP SWITCH, (FUSED) DISCONNECT SWITCH) AND/OR CONTROLLER (STARTER, VFD) PROVIDED BY DIVISION 23 CONTRACTOR OR FACTORY MOUNTED. B. PROVIDE UNIT MOUNTED FRACTIONAL HP MOTOR RATED SWITCH AS
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- D. DISCONNECTING MEANS PROVIDED VIA CORD AND PLUG CONNECTION. E. LINE VOLTAGE POWER CONNECTED TO DIVISION 23 PROVIDED LOW VOLTAGE, UNIT MOUNTED, EQUIPMENT TRANSFORMER. RE: MECHANICAL PLANS FOR
- F. DISCONNECTING MEANS PROVIDED BY LOCKABLE CIRCUIT BREAKER, RE: ONE-LINE DIAGRAM (E8.X) OR PANEL SCHEDULES (E6.X). G. EQUIPMENT PROVIDED BY DIVISION 23 CONTRACTOR, INSTALLED BY DIVISION 26 CONTRACTOR. CONTRACTOR SHALL CONFIRM CONTROLLER/EQUIPMENT PAIRING WITH MECHANICAL PLANS AND SCHEDULES.
- H. MAKE UP AIR UNIT HAS TWO POWER CONNECTIONS. CIRCUIT AS SHOWN ON PLAN. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER. DIVISION 26 CONTRACTOR TO PROVIDE ALL INTERCONNECTION BETWEEN KITCHEN EXHAUST HOOD AND ROOF MOUNTED EQUIPMENT TO PROVIDE A FULLY FUNCTIONAL SYSTEM. COORDINATE REQUIREMENTS WITH
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- K. DIVISION 26 CONTRACTOR TO PROVIDE NON-FUSED/FUSED SWITCH SIZED PER EQUIPMENT MANUFACTURER'S SPECIFICATIONS AND NEC. PROVIDE AN INTEGRAL HORSEPOWER MANUAL CONTROLLER WITH AUXILIARY CONTACT TO PROVIDE DISCONNECTING MEANS AND INTERFACE WITH BAS SYSTEM. COORDINATE REQUIREMENTS WITH BAS SYSTEM.

ELECTRICAL PLAN NOTES:

E39 CONTRACTOR TO PROVIDE CONNECTION FOR CIRCULATION PUMP TIMER TO BE FED FROM SAME CIRCUIT AS CIRCULATION PUMP. COORDINATE INSTALLATION REQUIREMENTS WITH EQUIPMENT MANUFACTURER'S SPECIFICATIONS AND PLUMBING PLANS.

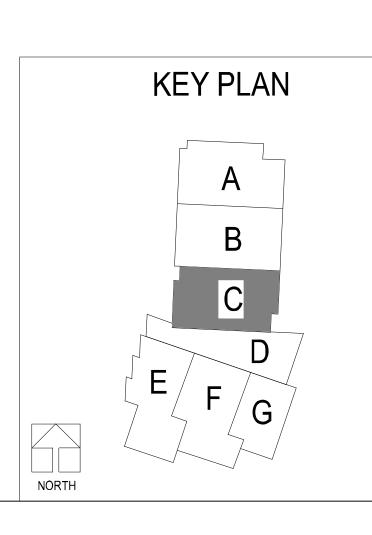
E40 CONTRACTOR TO PROVIDE 120V POWER CONNECTION FOR MECHANICAL CONTROL PANEL. COORDINATE INSTALLATION REQUIREMENTS WITH PROVIDE EMERGENCY SHUTOFF BUTTON FOR BOILERS. PROVIDE WITH RED PLACARD ABOVE BUTTON STATING "BOILER EMERGENCY SHUTOFF" IN 1/4" WHITE LETTERING.

1 EQUIPMENT CONNECTION FIRST LEVEL PLAN - AREA B



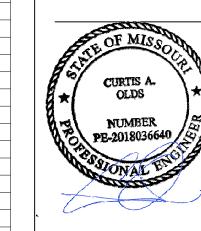
1) EQUIPMENT CONNECTION FIRST LEVEL PLAN - AREA C

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EQUIP CONN. - LVL1 - AREA C

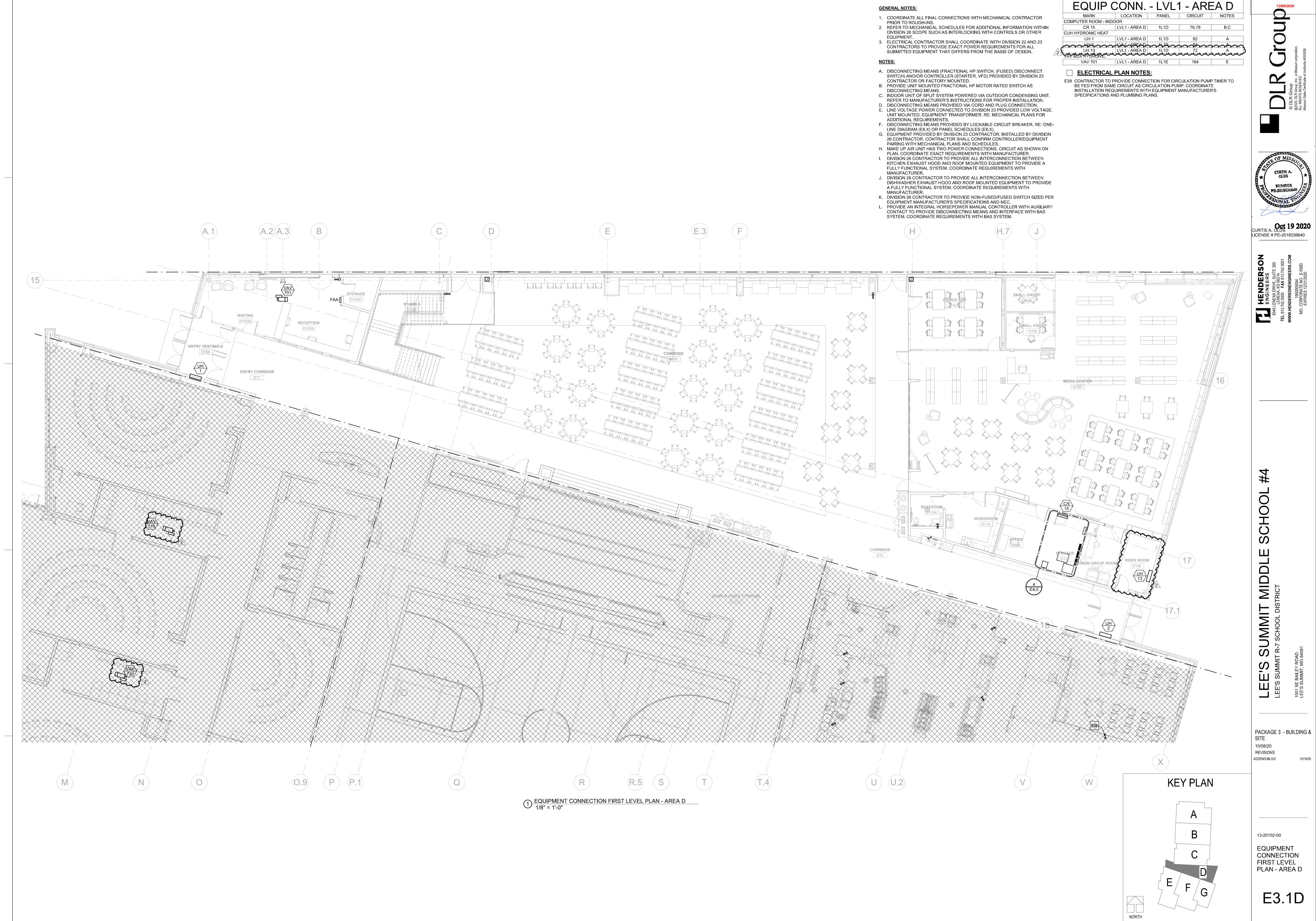


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PACKAGE 3 - BUILDING & SITE 10/08/20 REVISIONS ADDENDUM 002

13-20102-00 **EQUIPMENT** CONNECTION FIRST LEVEL PLAN - AREA C

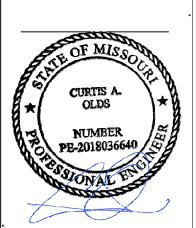
E3.1C

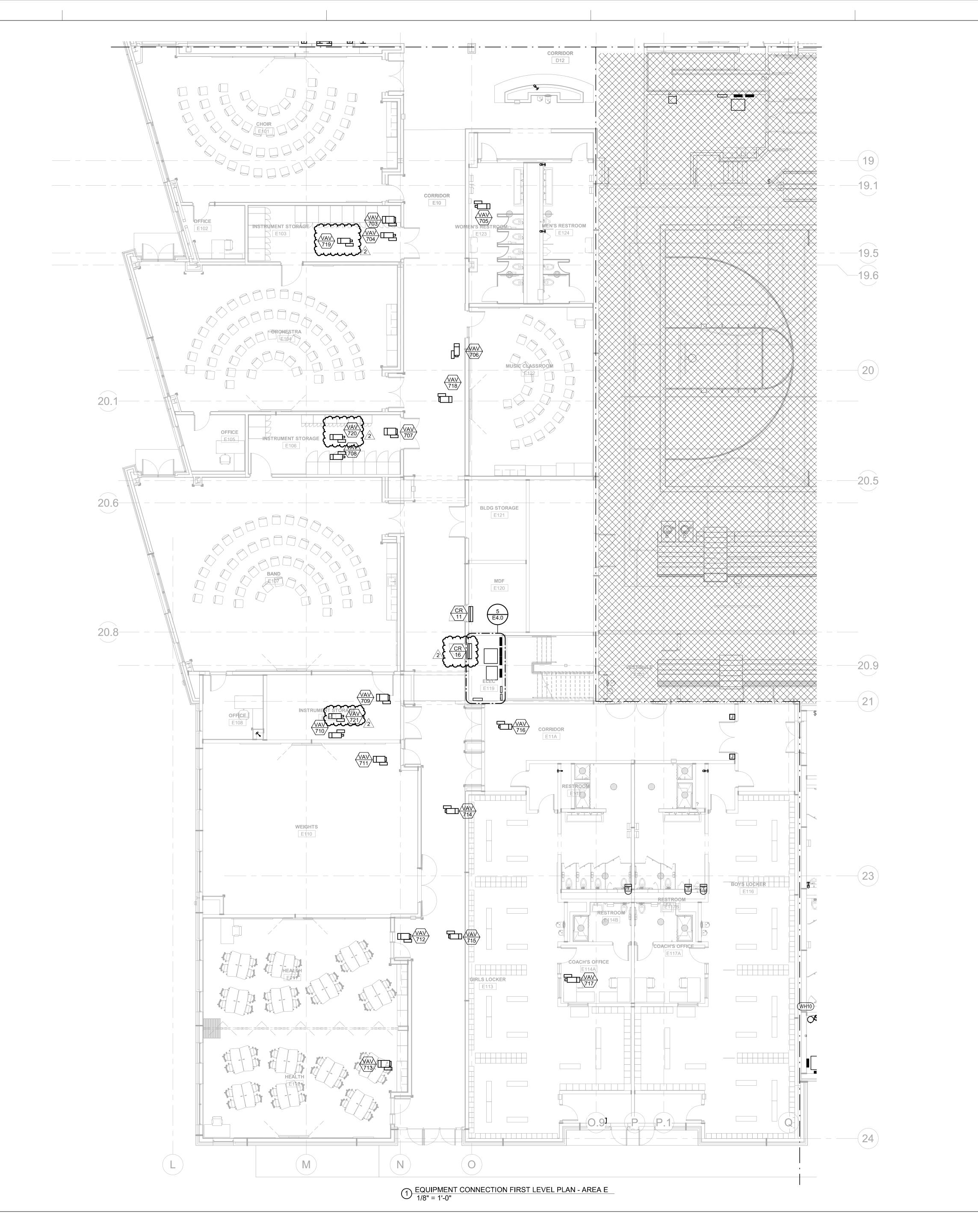


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DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI





EQUIP CONN. - LVL1 - AREA E LOCATION PANEL CIRCUIT NOTES COMPUTER ROOM - INDOOR A ROX HARON HOUSE TO THE ROY HOUSE TO TH VAV 703 LVL1 - AREA E VAV 704 LVL1 - AREA E VAV 705 LVL1 - AREA E LVL1 - AREA E 1L1E VAV 706 164 LVL1 - AREA E 1L1E 164 LVL1 - AREA E VAV 709 LVL1 - AREA E VAV 710 LVL1 - AREA E VAV 711 LVL1 - AREA E VAV 712 LVL1 - AREA E 1L1E LVL1 - AREA E 1L1E LVL1 - AREA E VAV 715 LVL1 - AREA E LVL1 - AREA E LVL1 - AREA E WAY 718 WILL AREA E WILL THE WAY TO THE WAY THE WAY TO LVL1 - AREA E VAV 720 LVL1 - AREA E

GENERAL NOTES:

- 1. COORDINATE ALL FINAL CONNECTIONS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-INS.
- 2. REFER TO MECHANICAL SCHEDULES FOR ADDITIONAL INFORMATION WITHIN DIVISION 26 SCOPE SUCH AS INTERLOCKING WITH CONTROLS OR OTHER EQUIPMENT.

3. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH DIVISION 22 AND 23

CONTRACTORS TO PROVIDE EXACT POWER REQUIREMENTS FOR ALL SUBMITTED EQUIPMENT THAT DIFFERS FROM THE BASIS OF DESIGN.

- A. DISCONNECTING MEANS (FRACTIONAL HP SWITCH, (FUSED) DISCONNECT SWITCH) AND/OR CONTROLLER (STARTER, VFD) PROVIDED BY DIVISION 23 CONTRACTOR OR FACTORY MOUNTED.
- B. PROVIDE UNIT MOUNTED FRACTIONAL HP MOTOR RATED SWITCH AS DISCONNECTING MEANS. C. INDOOR UNIT OF SPLIT SYSTEM POWERED VIA OUTDOOR CONDENSING UNIT.

ADDITIONAL REQUIREMENTS.

- REFER TO MANUFACTURER'S INSTRUCTIONS FOR PROPER INSTALLATION. D. DISCONNECTING MEANS PROVIDED VIA CORD AND PLUG CONNECTION. E. LINE VOLTAGE POWER CONNECTED TO DIVISION 23 PROVIDED LOW VOLTAGE, UNIT MOUNTED, EQUIPMENT TRANSFORMER. RE: MECHANICAL PLANS FOR
- F. DISCONNECTING MEANS PROVIDED BY LOCKABLE CIRCUIT BREAKER, RE: ONE-LINE DIAGRAM (E8.X) OR PANEL SCHEDULES (E6.X). G. EQUIPMENT PROVIDED BY DIVISION 23 CONTRACTOR, INSTALLED BY DIVISION 26 CONTRACTOR. CONTRACTOR SHALL CONFIRM CONTROLLER/EQUIPMENT
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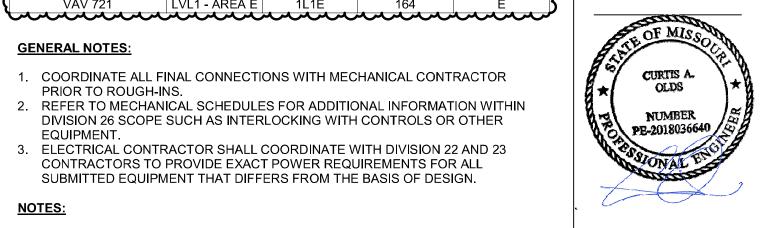
FULLY FUNCTIONAL SYSTEM. COORDINATE REQUIREMENTS WITH

MANUFACTURER. J. DIVISION 26 CONTRACTOR TO PROVIDE ALL INTERCONNECTION BETWEEN DISHWASHER EXHAUST HOOD AND ROOF MOUNTED EQUIPMENT TO PROVIDE

KITCHEN EXHAUST HOOD AND ROOF MOUNTED EQUIPMENT TO PROVIDE A

- A FULLY FUNCTIONAL SYSTEM. COORDINATE REQUIREMENTS WITH K. DIVISION 26 CONTRACTOR TO PROVIDE NON-FUSED/FUSED SWITCH SIZED PER
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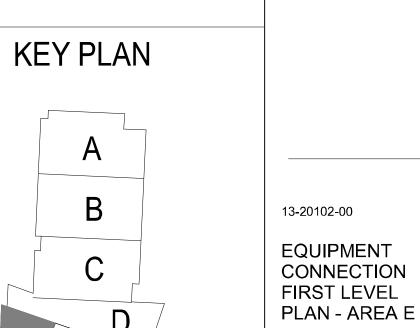


CONSTRUCTION

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PACKAGE 3 - BUILDING & SITE 10/08/20

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E3.1E

EQUIP CONN. - LVL1 - AREA F

Electric Storage Water Heater LVL1 - AREA F 1L1F 18,20 TF 3 LVL1 - AREA F 1L1F 55 A LVL1 - AREA F 1L1F VAV BOX HYDRONIC VAV 801 LVL1 - AREA F VAV 802 LVL1 - AREA F LVL1 - AREA F 1L1D

GENERAL NOTES:

VAV 811

1. COORDINATE ALL FINAL CONNECTIONS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-INS.

LVL1 - AREA F 1L1D

2. REFER TO MECHANICAL SCHEDULES FOR ADDITIONAL INFORMATION WITHIN DIVISION 26 SCOPE SUCH AS INTERLOCKING WITH CONTROLS OR OTHER 3. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH DIVISION 22 AND 23 CONTRACTORS TO PROVIDE EXACT POWER REQUIREMENTS FOR ALL

- A. DISCONNECTING MEANS (FRACTIONAL HP SWITCH, (FUSED) DISCONNECT SWITCH) AND/OR CONTROLLER (STARTER, VFD) PROVIDED BY DIVISION 23
- CONTRACTOR OR FACTORY MOUNTED. B. PROVIDE UNIT MOUNTED FRACTIONAL HP MOTOR RATED SWITCH AS
- DISCONNECTING MEANS. C. INDOOR UNIT OF SPLIT SYSTEM POWERED VIA OUTDOOR CONDENSING UNIT. REFER TO MANUFACTURER'S INSTRUCTIONS FOR PROPER INSTALLATION.

SUBMITTED EQUIPMENT THAT DIFFERS FROM THE BASIS OF DESIGN.

- D. DISCONNECTING MEANS PROVIDED VIA CORD AND PLUG CONNECTION. E. LINE VOLTAGE POWER CONNECTED TO DIVISION 23 PROVIDED LOW VOLTAGE,
- UNIT MOUNTED, EQUIPMENT TRANSFORMER. RE: MECHANICAL PLANS FOR ADDITIONAL REQUIREMENTS. F. DISCONNECTING MEANS PROVIDED BY LOCKABLE CIRCUIT BREAKER, RE: ONE-
- LINE DIAGRAM (E8.X) OR PANEL SCHEDULES (E6.X). G. EQUIPMENT PROVIDED BY DIVISION 23 CONTRACTOR, INSTALLED BY DIVISION
- 26 CONTRACTOR. CONTRACTOR SHALL CONFIRM CONTROLLER/EQUIPMENT PAIRING WITH MECHANICAL PLANS AND SCHEDULES. H. MAKE UP AIR UNIT HAS TWO POWER CONNECTIONS. CIRCUIT AS SHOWN ON PLAN. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER. I. DIVISION 26 CONTRACTOR TO PROVIDE ALL INTERCONNECTION BETWEEN
- FULLY FUNCTIONAL SYSTEM. COORDINATE REQUIREMENTS WITH MANUFACTURER. J. DIVISION 26 CONTRACTOR TO PROVIDE ALL INTERCONNECTION BETWEEN DISHWASHER EXHAUST HOOD AND ROOF MOUNTED EQUIPMENT TO PROVIDE

KITCHEN EXHAUST HOOD AND ROOF MOUNTED EQUIPMENT TO PROVIDE A

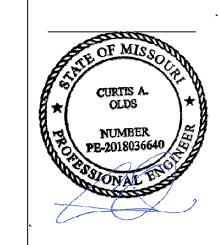
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ELECTRICAL PLAN NOTES:

E40 CONTRACTOR TO PROVIDE 120V POWER CONNECTION FOR MECHANICAL CONTROL PANEL. COORDINATE INSTALLATION REQUIREMENTS WITH EQUIPMENT MANUFACTURER'S SPECIFICATIONS.

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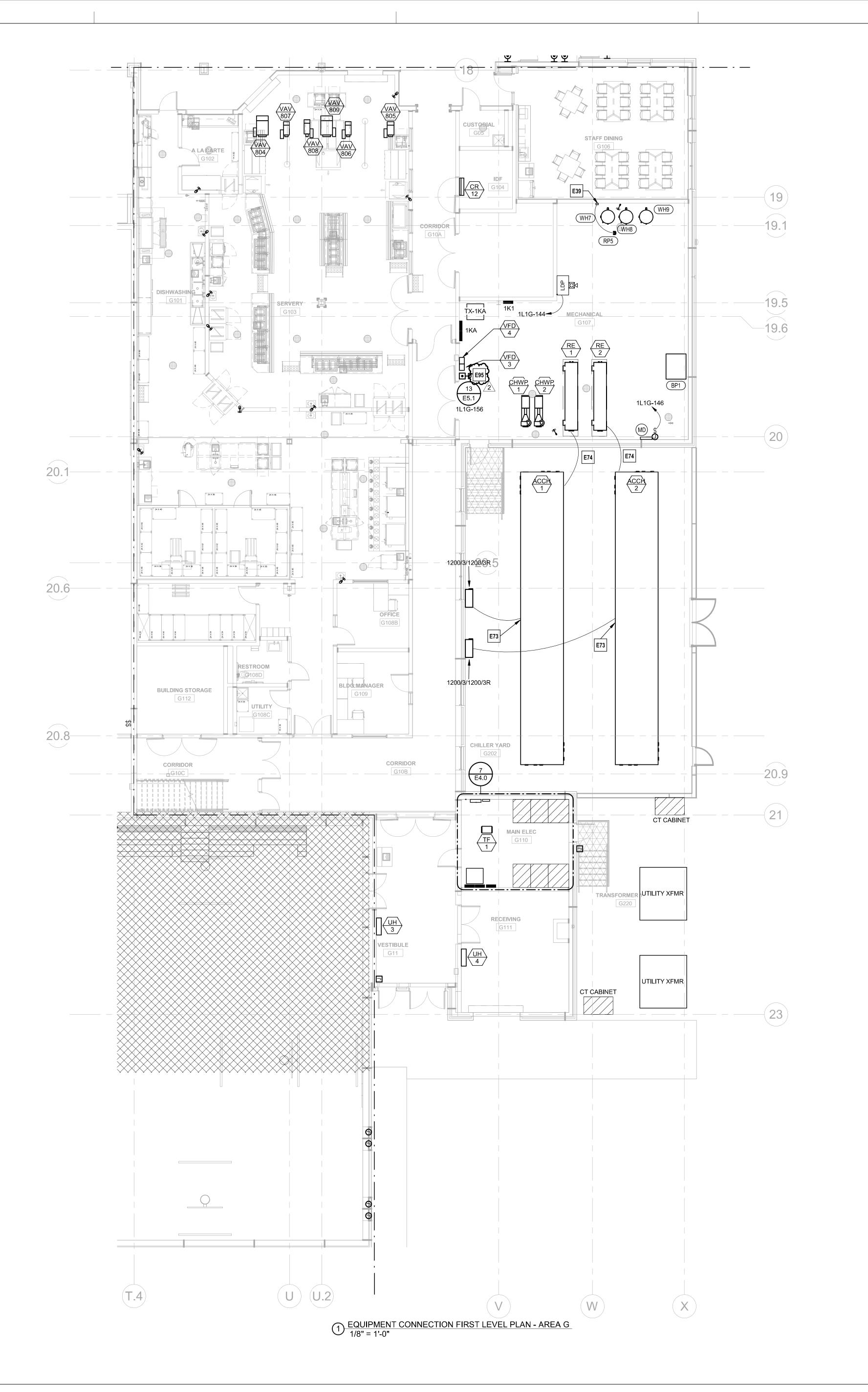


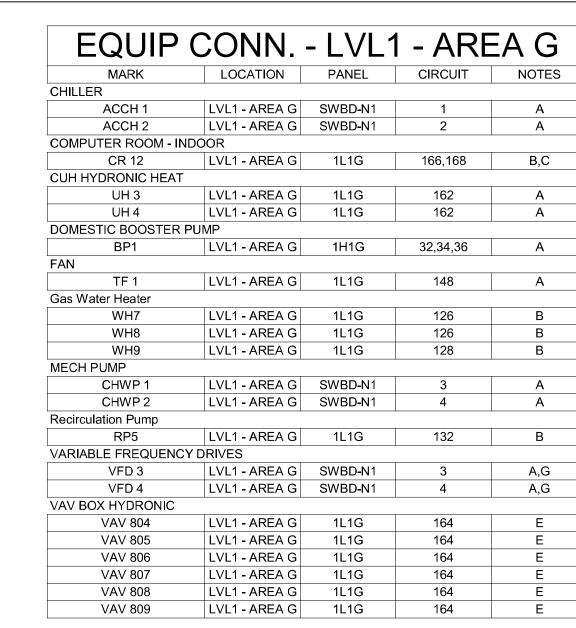
LICENSE # PE-2018036640

KEY PLAN Α

13-20102-00 **EQUIPMENT** CONNECTION FIRST LEVEL PLAN - AREA F

E3.1F





- COORDINATE ALL FINAL CONNECTIONS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-INS.
- 2. REFER TO MECHANICAL SCHEDULES FOR ADDITIONAL INFORMATION WITHIN DIVISION 26 SCOPE SUCH AS INTERLOCKING WITH CONTROLS OR OTHER EQUIPMENT.
- 3. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH DIVISION 22 AND 23 CONTRACTORS TO PROVIDE EXACT POWER REQUIREMENTS FOR ALL SUBMITTED EQUIPMENT THAT DIFFERS FROM THE BASIS OF DESIGN.

<u>N</u>

- A. DISCONNECTING MEANS (FRACTIONAL HP SWITCH, (FUSED) DISCONNECT SWITCH) AND/OR CONTROLLER (STARTER, VFD) PROVIDED BY DIVISION 23 CONTRACTOR OR FACTORY MOUNTED.
- B. PROVIDE UNIT MOUNTED FRACTIONAL HP MOTOR RATED SWITCH AS DISCONNECTING MEANS.
- C. INDOOR UNIT OF SPLIT SYSTEM POWERED VIA OUTDOOR CONDENSING UNIT.REFER TO MANUFACTURER'S INSTRUCTIONS FOR PROPER INSTALLATION.D. DISCONNECTING MEANS PROVIDED VIA CORD AND PLUG CONNECTION.
- E. LINE VOLTAGE POWER CONNECTED TO DIVISION 23 PROVIDED LOW VOLTAGE, UNIT MOUNTED, EQUIPMENT TRANSFORMER. RE: MECHANICAL PLANS FOR ADDITIONAL REQUIREMENTS.
- F. DISCONNECTING MEANS PROVIDED BY LOCKABLE CIRCUIT BREAKER, RE: ONE-LINE DIAGRAM (E8.X) OR PANEL SCHEDULES (E6.X).
 G. EQUIPMENT PROVIDED BY DIVISION 23 CONTRACTOR, INSTALLED BY DIVISION
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 H. MAKE UP AIR UNIT HAS TWO POWER CONNECTIONS. CIRCUIT AS SHOWN ON PLAN. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER.
- I. DIVISION 26 CONTRACTOR TO PROVIDE ALL INTERCONNECTION BETWEEN KITCHEN EXHAUST HOOD AND ROOF MOUNTED EQUIPMENT TO PROVIDE A FULLY FUNCTIONAL SYSTEM. COORDINATE REQUIREMENTS WITH MANUFACTURER.
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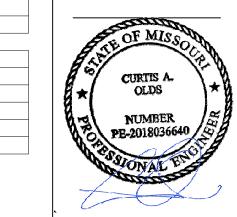
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ELECTRICAL PLAN NOTES: E39 CONTRACTOR TO PROVIDE CONNECTION FOR CIRCULATION PUMP TIMER TO

- BE FED FROM SAME CIRCUIT AS CIRCULATION PUMP. COORDINATE INSTALLATION REQUIREMENTS WITH EQUIPMENT MANUFACTURER'S SPECIFICATIONS AND PLUMBING PLANS.
- E73 POWER CONNECTION TO FACTORY MOUNTED VFD. COORDINATE REQUIREMENTS WITH MANUFACTURER AND DIVISION 23 CONTRACTOR.
- E74 DIVISION 26 CONTRACTOR TO PROVIDE ALL INTERCONNECTION OF AIR COOLED CHILLER AND REMOTE EVAPORATION UNIT. COORDINATE
- REQUIREMENTS WITH DIVISION 23 CONTRACTOR AND MANUFACTURER

 2 PROVIDE EMERGENCY SHUTOFF BUTTON FOR BOILERS. PROVIDE WITH RED PLACARD ABOVE BUTTON STATING "BOILER EMERGENCY SHUTOFF" IN 1/4" WHITE LETTERING.



Oct 19 2020
CURTIS A. OLDS
LICENSE # PE-2018036640

CONSTRUCTION

LEE'S SUMMIT, MISSOURI

HENDERSON
ENGINEERS
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
TEL 913.742.5000 FAX 913.742.5001
WWW.HENDERSONENGINEERS.COM
1950005054
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2020

LEE'S SUMMIT MIDDLE SCHOOL #4

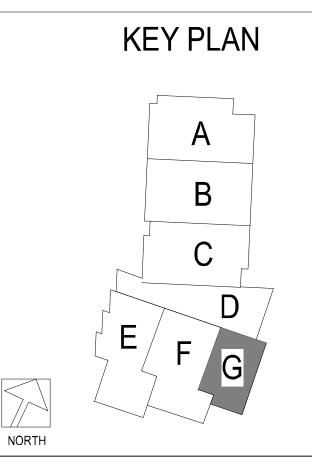
PACKAGE 3 - BUILDING & SITE
10/08/20
REVISIONS

ADDENDUM 002

13-20102-00

EQUIPMENT CONNECTION

FIRST LEVEL PLAN - AREA G



E3.1G

- COORDINATE ALL FINAL CONNECTIONS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-INS. 2. REFER TO MECHANICAL SCHEDULES FOR ADDITIONAL INFORMATION WITHIN DIVISION 26 SCOPE SUCH AS INTERLOCKING WITH CONTROLS OR OTHER
- 3. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH DIVISION 22 AND 23
- CONTRACTORS TO PROVIDE EXACT POWER REQUIREMENTS FOR ALL SUBMITTED EQUIPMENT THAT DIFFERS FROM THE BASIS OF DESIGN.

- A. DISCONNECTING MEANS (FRACTIONAL HP SWITCH, (FUSED) DISCONNECT SWITCH) AND/OR CONTROLLER (STARTER, VFD) PROVIDED BY DIVISION 23 CONTRACTOR OR FACTORY MOUNTED.
- B. PROVIDE UNIT MOUNTED FRACTIONAL HP MOTOR RATED SWITCH AS DISCONNECTING MEANS.
- REFER TO MANUFACTURER'S INSTRUCTIONS FOR PROPER INSTALLATION. D. DISCONNECTING MEANS PROVIDED VIA CORD AND PLUG CONNECTION.
- E. LINE VOLTAGE POWER CONNECTED TO DIVISION 23 PROVIDED LOW VOLTAGE, UNIT MOUNTED, EQUIPMENT TRANSFORMER. RE: MECHANICAL PLANS FOR ADDITIONAL REQUIREMENTS.

C. INDOOR UNIT OF SPLIT SYSTEM POWERED VIA OUTDOOR CONDENSING UNIT.

- F. DISCONNECTING MEANS PROVIDED BY LOCKABLE CIRCUIT BREAKER, RE: ONE-LINE DIAGRAM (E8.X) OR PANEL SCHEDULES (E6.X). G. EQUIPMENT PROVIDED BY DIVISION 23 CONTRACTOR, INSTALLED BY DIVISION
- 26 CONTRACTOR. CONTRACTOR SHALL CONFIRM CONTROLLER/EQUIPMENT PAIRING WITH MECHANICAL PLANS AND SCHEDULES. H. MAKE UP AIR UNIT HAS TWO POWER CONNECTIONS. CIRCUIT AS SHOWN ON
- PLAN. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER. DIVISION 26 CONTRACTOR TO PROVIDE ALL INTERCONNECTION BETWEEN KITCHEN EXHAUST HOOD AND ROOF MOUNTED EQUIPMENT TO PROVIDE A FULLY FUNCTIONAL SYSTEM. COORDINATE REQUIREMENTS WITH
- J. DIVISION 26 CONTRACTOR TO PROVIDE ALL INTERCONNECTION BETWEEN DISHWASHER EXHAUST HOOD AND ROOF MOUNTED EQUIPMENT TO PROVIDE
- MANUFACTURER.
 K. DIVISION 26 CONTRACTOR TO PROVIDE NON-FUSED/FUSED SWITCH SIZED PER EQUIPMENT MANUFACTURER'S SPECIFICATIONS AND NEC.
- PROVIDE AN INTEGRAL HORSEPOWER MANUAL CONTROLLER WITH AUXILIARY CONTACT TO PROVIDE DISCONNECTING MEANS AND INTERFACE WITH BAS SYSTEM. COORDINATE REQUIREMENTS WITH BAS SYSTEM.

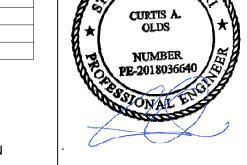
www.www.www.ww/

ELECTRICAL PLAN NOTES:

MANUFACTURER.

E40 CONTRACTOR TO PROVIDE 120V POWER CONNECTION FOR MECHANICAL CONTROL PANEL. COORDINATE INSTALLATION REQUIREMENTS WITH EQUIPMENT MANUFACTURER'S SPECIFICATIONS.

EQUIP CONN. - LVL2 - AREA A VAV 413 LVL2 - AREA A 2L2A VAV 414 LVL2 - AREA A 2L2A LVL2 - AREA A VAV 415 2L2A VAV 416 LVL2 - AREA A 2L2A



Dec 2 2020 CURTIS A. OLDS LICENSE # PE-2018036640

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

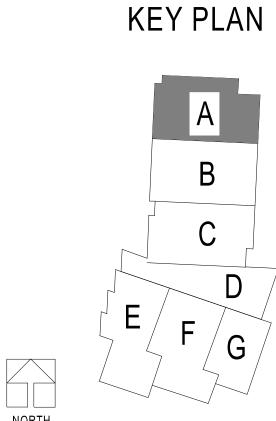
LEE'S SUMMIT, MISSOURI

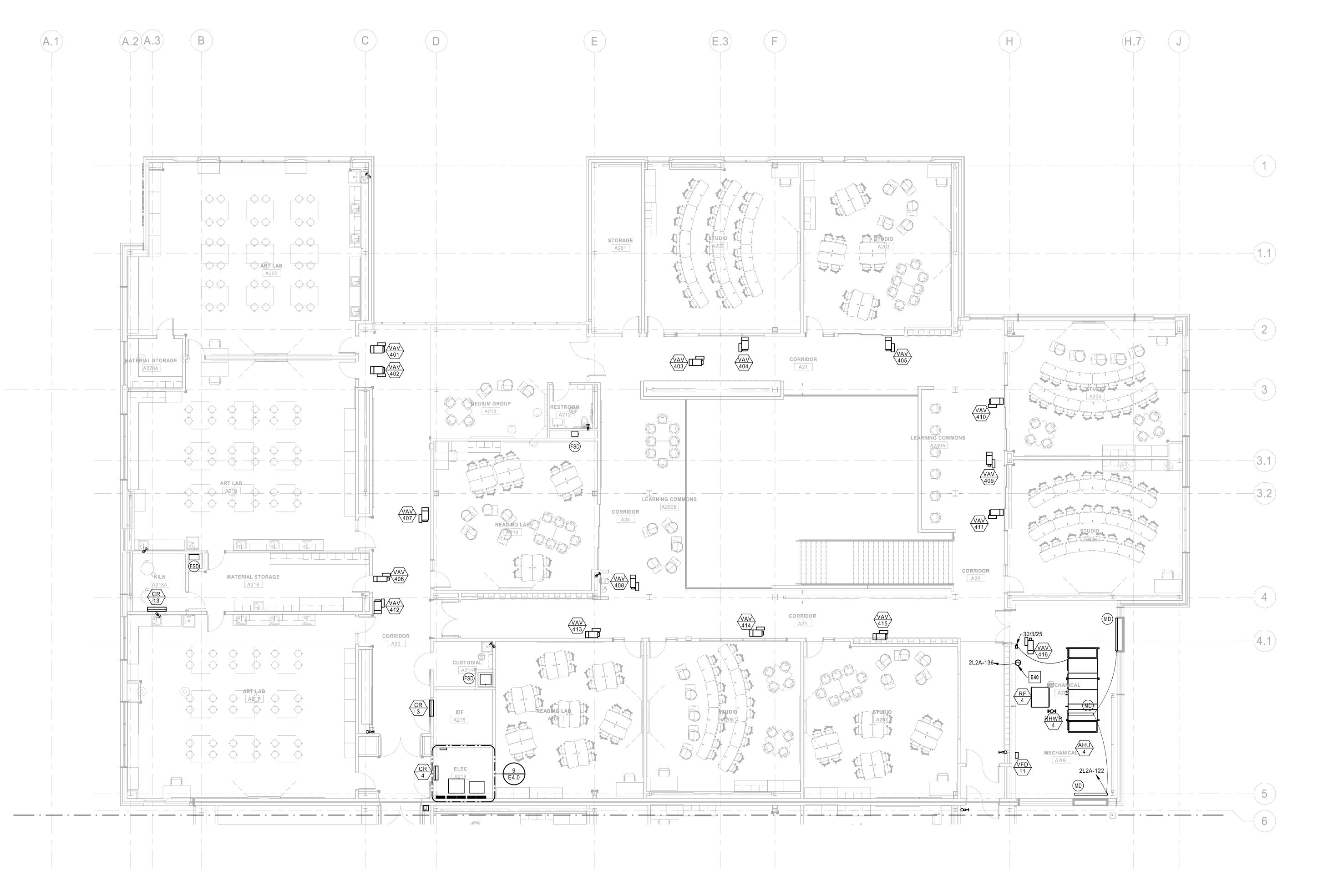
HENDERSON ENGINEERS 77

PACKAGE 3 - BUILDING & 10/08/20 REVISIONS ADDENDUM 002 ASI 003

13-20102-00

EQUIPMENT CONNECTION SECOND LEVEL PLAN - AREA A





1/8" = 1'-0"

E3.2A

VAV 516 VAV 517

1. COORDINATE ALL FINAL CONNECTIONS WITH MECHANICAL CONTRACTOR

LVL2 - AREA B 2L2B

- 2. REFER TO MECHANICAL SCHEDULES FOR ADDITIONAL INFORMATION WITHIN DIVISION 26 SCOPE SUCH AS INTERLOCKING WITH CONTROLS OR OTHER
- 3. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH DIVISION 22 AND 23

- A. DISCONNECTING MEANS (FRACTIONAL HP SWITCH, (FUSED) DISCONNECT CONTRÁCTOR OR FACTORY MOUNTED.
- B. PROVIDE UNIT MOUNTED FRACTIONAL HP MOTOR RATED SWITCH AS DISCONNECTING MEANS.
- D. DISCONNECTING MEANS PROVIDED VIA CORD AND PLUG CONNECTION. E. LINE VOLTAGE POWER CONNECTED TO DIVISION 23 PROVIDED LOW VOLTAGE,
- LINE DIAGRAM (E8.X) OR PANEL SCHEDULES (E6.X). G. EQUIPMENT PROVIDED BY DIVISION 23 CONTRACTOR, INSTALLED BY DIVISION
- PAIRING WITH MECHANICAL PLANS AND SCHEDULES. H. MAKE UP AIR UNIT HAS TWO POWER CONNECTIONS. CIRCUIT AS SHOWN ON PLAN. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER.
- MANUFACTURER. J. DIVISION 26 CONTRACTOR TO PROVIDE ALL INTERCONNECTION BETWEEN DISHWASHER EXHAUST HOOD AND ROOF MOUNTED EQUIPMENT TO PROVIDE
- K. DIVISION 26 CONTRACTOR TO PROVIDE NON-FUSED/FUSED SWITCH SIZED PER EQUIPMENT MANUFACTURER'S SPECIFICATIONS AND NEC.
- CONTROL PANEL. COORDINATE INSTALLATION REQUIREMENTS WITH EQUIPMENT MANUFACTURER'S SPECIFICATIONS.

GENERAL NOTES:

PRIOR TO ROUGH-INS.

EQUIPMENT.

CONTRACTORS TO PROVIDE EXACT POWER REQUIREMENTS FOR ALL SUBMITTED EQUIPMENT THAT DIFFERS FROM THE BASIS OF DESIGN.

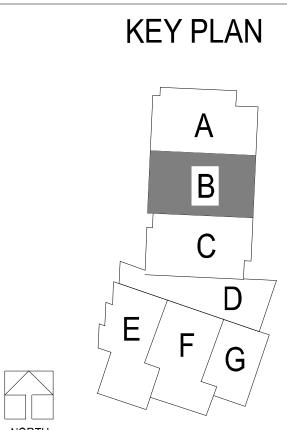
- SWITCH) AND/OR CONTROLLER (STARTER, VFD) PROVIDED BY DIVISION 23
- C. INDOOR UNIT OF SPLIT SYSTEM POWERED VIA OUTDOOR CONDENSING UNIT. REFER TO MANUFACTURER'S INSTRUCTIONS FOR PROPER INSTALLATION.
- UNIT MOUNTED, EQUIPMENT TRANSFORMER. RE: MECHANICAL PLANS FOR ADDITIONAL REQUIREMENTS. F. DISCONNECTING MEANS PROVIDED BY LOCKABLE CIRCUIT BREAKER, RE: ONE-
- 26 CONTRACTOR. CONTRACTOR SHALL CONFIRM CONTROLLER/EQUIPMENT
- I. DIVISION 26 CONTRACTOR TO PROVIDE ALL INTERCONNECTION BETWEEN KITCHEN EXHAUST HOOD AND ROOF MOUNTED EQUIPMENT TO PROVIDE A FULLY FUNCTIONAL SYSTEM. COORDINATE REQUIREMENTS WITH
- A FULLY FUNCTIONAL SYSTEM. COORDINATE REQUIREMENTS WITH MANUFACTURER.
- PROVIDE AN INTEGRAL HORSEPOWER MANUAL CONTROLLER WITH AUXILIARY CONTACT TO PROVIDE DISCONNECTING MEANS AND INTERFACE WITH BAS SYSTEM. COORDINATE REQUIREMENTS WITH BAS SYSTEM. E40 CONTRACTOR TO PROVIDE 120V POWER CONNECTION FOR MECHANICAL

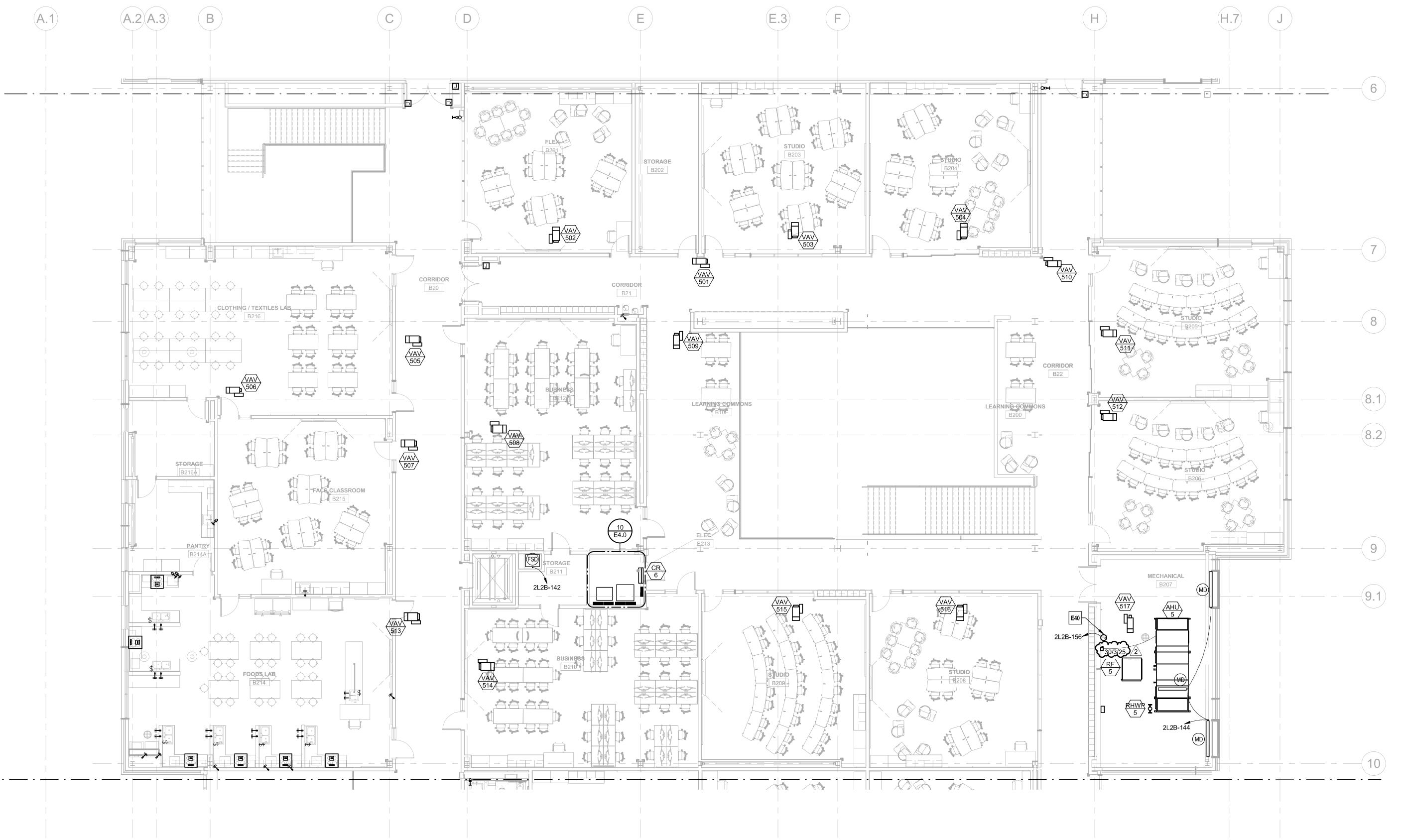
PACKAGE 3 - BUILDING & 10/08/20 REVISIONS ADDENDUM 002

13-20102-00

EQUIPMENT CONNECTION SECOND LEVEL PLAN - AREA B

E3.2B





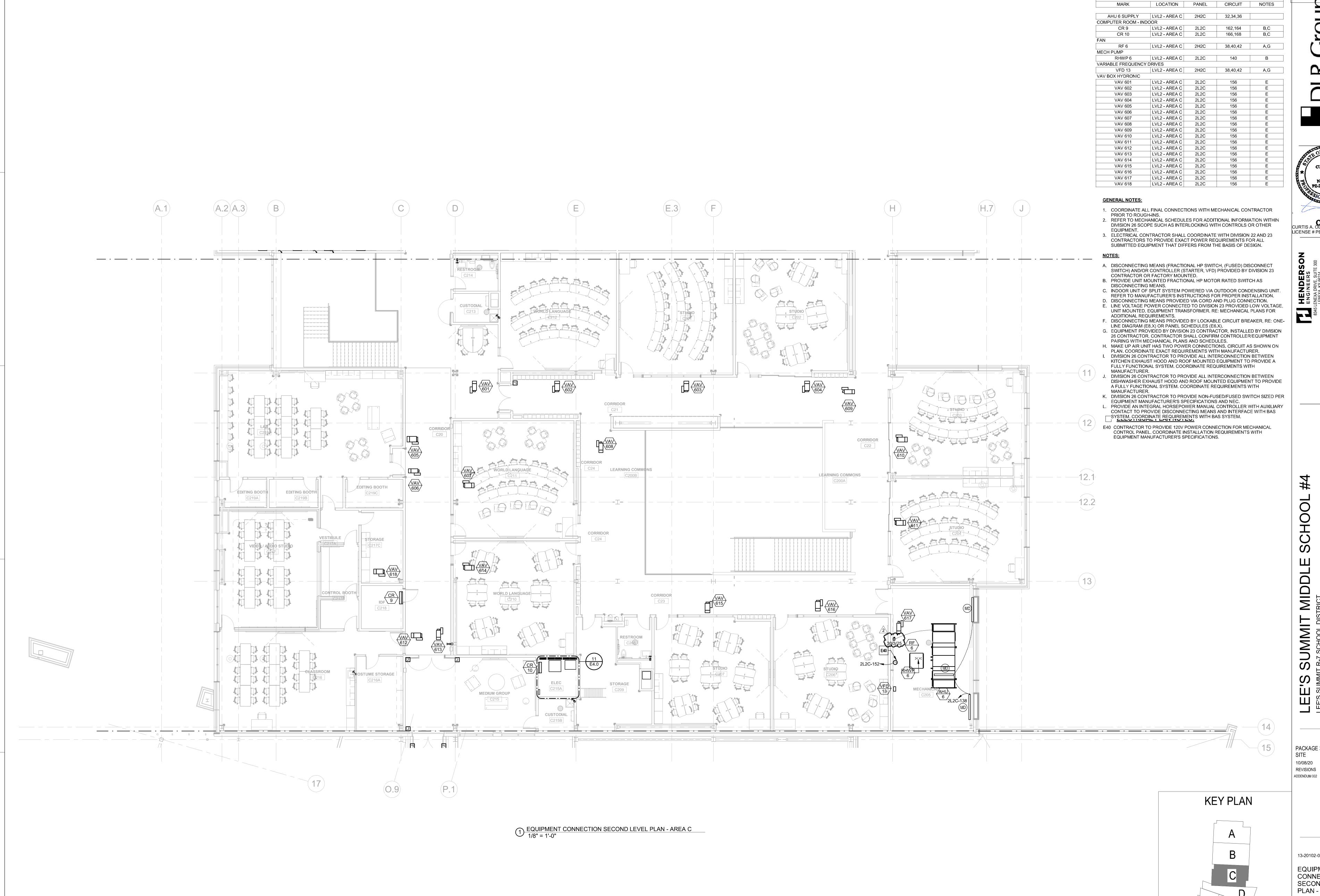
1/8" = 1'-0" EQUIPMENT CONNECTION SECOND LEVEL PLAN - AREA B

CONSTRUCTION AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

Oct 19 2020 CURTIS A. OLDS LICENSE # PE-2018036640



LEE'S SUMMIT, MISSOURI

EQUIP CONN. - LVL2 - AREA C

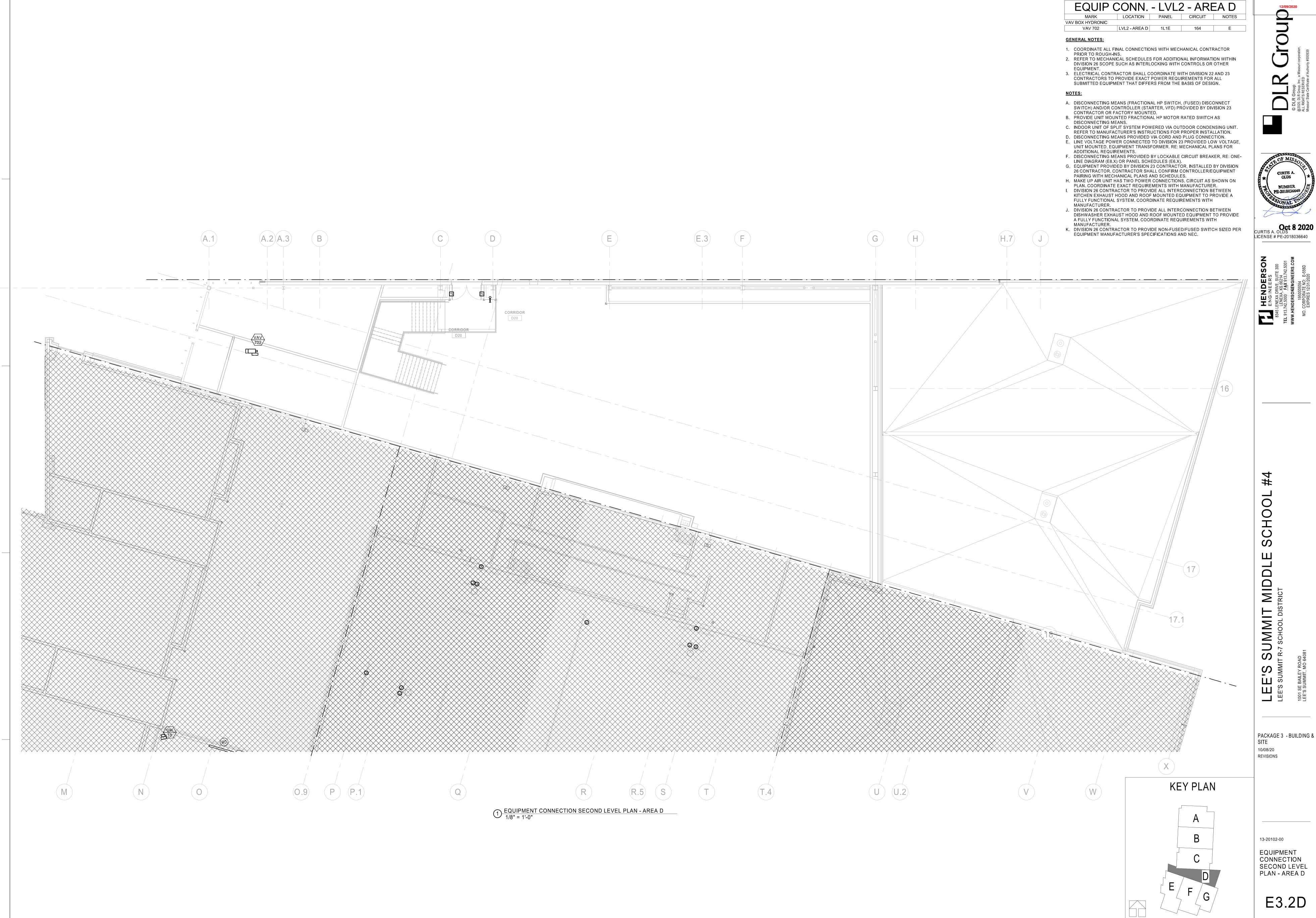
CONSTRUCTION

Oct 19 2020 LICENSE # PE-2018036640

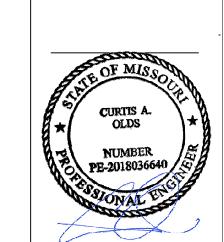
PACKAGE 3 - BUILDING &

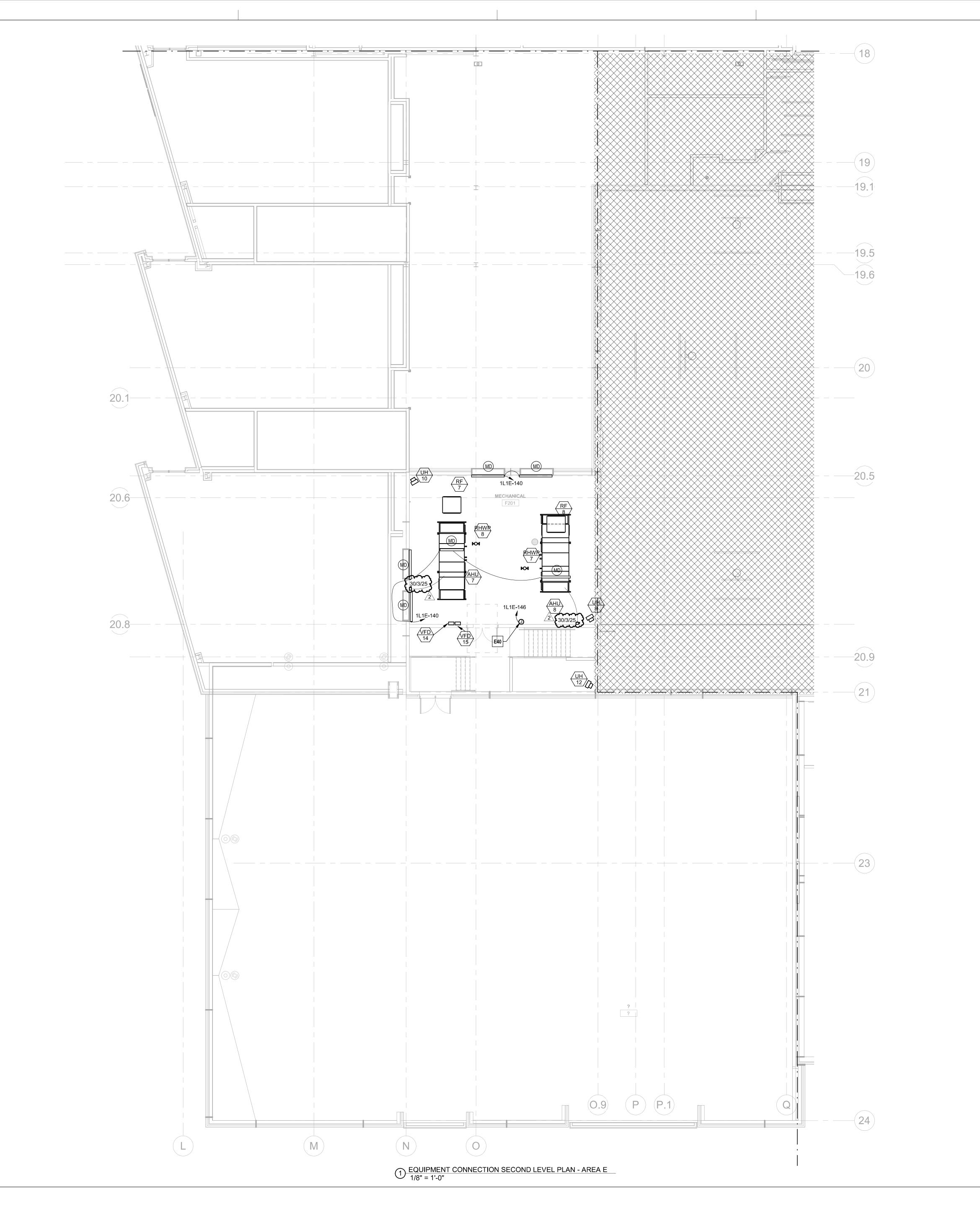
13-20102-00 **EQUIPMENT** CONNECTION SECOND LEVEL PLAN - AREA C

E3.2C



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI





EQUIP CONN. - LVL2 - AREA E LOCATION PANEL CIRCUIT NOTES AHU 7 SUPPLY LVL2 - AREA E 1H1E 62,64,66 AHU 8 SUPPLY LVL2 - AREA E 1H1E 50,52,54 LVL2 - AREA E 1H1E 68,70,72 LVL2 - AREA E 1H1E 56,58,60 LVL2 - AREA E 1L1E RHWP 7 RHWP 8 LVL2 - AREA E 1L1E 144 UNIT HEATER HYDRONIC LVL2 - AREA E 158 LVL2 - AREA E 1L1E UH 12 LVL2 - AREA E 1L1E VARIABLE FREQUENCY DRIVES VFD 14 LVL2 - AREA E 1H1E 68,70,72 VFD 15 LVL2 - AREA E 1H1E 56,58,60

GENERAL NOTES:

- COORDINATE ALL FINAL CONNECTIONS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-INS.
- REFER TO MECHANICAL SCHEDULES FOR ADDITIONAL INFORMATION WITHIN DIVISION 26 SCOPE SUCH AS INTERLOCKING WITH CONTROLS OR OTHER EQUIPMENT.
 ELECTRICAL CONTRACTOR SHALL COORDINATE WITH DIVISION 22 AND 23 CONTRACTORS TO PROVIDE EXACT POWER REQUIREMENTS FOR ALL

NOTES

MANUFACTURER.

A. DISCONNECTING MEANS (FRACTIONAL HP SWITCH, (FUSED) DISCONNECT SWITCH) AND/OR CONTROLLER (STARTER, VFD) PROVIDED BY DIVISION 23

SUBMITTED EQUIPMENT THAT DIFFERS FROM THE BASIS OF DESIGN.

- CONTRACTOR OR FACTORY MOUNTED.

 B. PROVIDE UNIT MOUNTED FRACTIONAL HP MOTOR RATED SWITCH AS DISCONNECTING MEANS.
- C. INDOOR UNIT OF SPLIT SYSTEM POWERED VIA OUTDOOR CONDENSING UNIT.
 REFER TO MANUFACTURER'S INSTRUCTIONS FOR PROPER INSTALLATION.

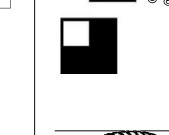
D. DISCONNECTING MEANS PROVIDED VIA CORD AND PLUG CONNECTION.

- E. LINE VOLTAGE POWER CONNECTED TO DIVISION 23 PROVIDED LOW VOLTAGE, UNIT MOUNTED, EQUIPMENT TRANSFORMER. RE: MECHANICAL PLANS FOR ADDITIONAL REQUIREMENTS.
 F. DISCONNECTING MEANS PROVIDED BY LOCKABLE CIRCUIT BREAKER, RE: ONE-LINE DIAGRAM (E8.X) OR PANEL SCHEDULES (E6.X).
 G. EQUIPMENT PROVIDED BY DIVISION 23 CONTRACTOR. INSTALLED BY DIVISION
- G. EQUIPMENT PROVIDED BY DIVISION 23 CONTRACTOR, INSTALLED BY DIVISION 26 CONTRACTOR. CONTRACTOR SHALL CONFIRM CONTROLLER/EQUIPMENT PAIRING WITH MECHANICAL PLANS AND SCHEDULES.
 H. MAKE UP AIR UNIT HAS TWO POWER CONNECTIONS. CIRCUIT AS SHOWN ON PLAN. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER.
 I. DIVISION 26 CONTRACTOR TO PROVIDE ALL INTERCONNECTION BETWEEN KITCHEN EXHAUST HOOD AND ROOF MOUNTED EQUIPMENT TO PROVIDE A

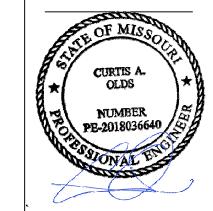
FULLY FUNCTIONAL SYSTEM. COORDINATE REQUIREMENTS WITH

- J. DIVISION 26 CONTRACTOR TO PROVIDE ALL INTERCONNECTION BETWEEN DISHWASHER EXHAUST HOOD AND ROOF MOUNTED EQUIPMENT TO PROVIDE A FULLY FUNCTIONAL SYSTEM. COORDINATE REQUIREMENTS WITH MANUFACTURER.
 K. DIVISION 26 CONTRACTOR TO PROVIDE NON-FUSED/FUSED SWITCH SIZED PER
- EQUIPMENT MANUFACTURER'S SPECIFICATIONS AND NEC.

 L. PROVIDE AN INTEGRAL HORSEPOWER MANUAL CONTROLLER WITH AUXILIARY CONTACT TO PROVIDE DISCONNECTING MEANS AND INTERFACE WITH BAS SYSTEM. COORDINATE REQUIREMENTS WITH BAS SYSTEM.
- E40 CONTRACTOR TO PROVIDE 120V POWER CONNECTION FOR MECHANICAL CONTROL PANEL. COORDINATE INSTALLATION REQUIREMENTS WITH EQUIPMENT MANUFACTURER'S SPECIFICATIONS.



RELEASE FOR CONSTRUCTION



Oct 19 2020 CURTIS A. OLDS LICENSE # PE-2018036640

HENDERSON

8345 LENEXA, KS 66214

TEL 913.742.5000 FAX 913.742.5001

www.hendersonengineers.com

1950005054

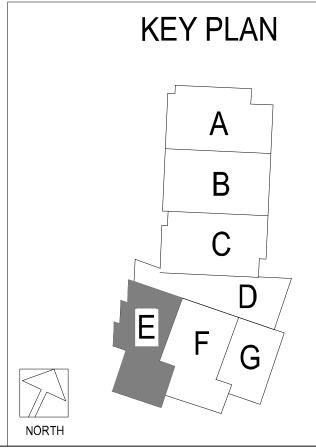
MO. CORPORATE NO: E-556D

EXPIRES 12/31/2020

LEIS SUMMIT R-7 SCHOOL DISTRICT

PACKAGE 3 - BUILDING & SITE

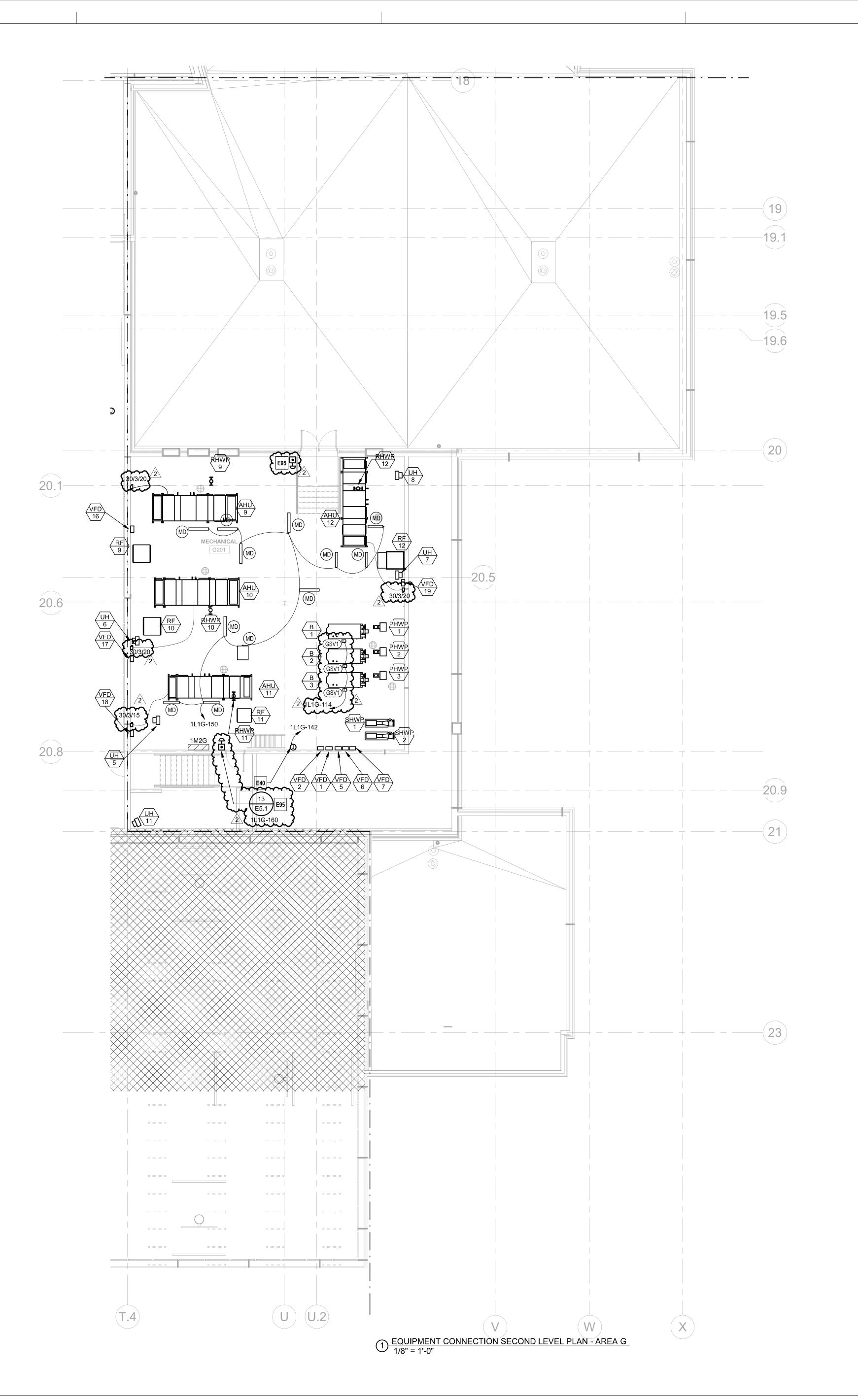
SITE
10/08/20
REVISIONS
ADDENDUM 002 10/19/3



13-20102-00

EQUIPMENT
CONNECTION
SECOND LEVEL
PLAN - AREA E

E3.2E



EQUIP	CONN.	- LVL	2 - AR
MARK	LOCATION	PANEL	CIRCUIT
			1
AHU 9 SUPPLY	LVL2 - AREA G	1M2G	62,64,66
AHU 10 SUPPLY	LVL2 - AREA G	1M2G	74,76,78
AHU 11 SUPPLY	LVL2 - AREA G	1M2G	38,40,42
AHU 12 SUPPLY	LVL2 - AREA G	1M2G	50,52,54
B 1	LVL2 - AREA G	1M2G	61,63,65
B 2	LVL2 - AREA G	1M2G	67,69,71
В3	LVL2 - AREA G	1M2G	73,75,77
FAN	-		
RF 9	LVL2 - AREA G	1M2G	68,70,72
RF 10	LVL2 - AREA G	1M2G	80,82,84
RF 11	LVL2 - AREA G	1M2G	44,46,48
RF 12	LVL2 - AREA G	1M2G	56,58,60
MECH PUMP			
PHWP 1	LVL2 - AREA G	1M2G	37,39,41
PHWP 2	LVL2 - AREA G	1M2G	43,45,47
PHWP 3	LVL2 - AREA G	1M2G	49,51,53
RHWP 9	LVL2 - AREA G	1L1G	118
RHWP 10	LVL2 - AREA G	1L1G	120
RHWP 11	LVL2 - AREA G	1L1G	122
RHWP 12	LVL2 - AREA G	1L1G	124
SHWP 1	LVL2 - AREA G	1M2G	25,27,29
SHWP 2	LVL2 - AREA G	1M2G	31,33,35
UNIT HEATER HYDRON	IC		'
UH 5	LVL2 - AREA G	1L1G	158
UH 6	LVL2 - AREA G	1L1G	158
UH 7	LVL2 - AREA G	1L1G	158
UH 8	LVL2 - AREA G	1L1G	158
UH 11	LVL2 - AREA G	1L1G	158
VARIABLE FREQUENCY	/ DRIVES		'
VFD 1	LVL2 - AREA G	1M2G	25,27,29
VFD 2	LVL2 - AREA G	1M2G	31,33,35
VFD 5	LVL2 - AREA G	1M2G	37,39,41
VFD 6	LVL2 - AREA G	1M2G	43,45,47
VFD 7	LVL2 - AREA G	1M2G	49,51,53
VFD 16	LVL2 - AREA G	1M2G	68,70,72
VFD 17	LVL2 - AREA G	1M2G	80,82,84
VFD 18	LVL2 - AREA G	1M2G	44,46,48

- 1. COORDINATE ALL FINAL CONNECTIONS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-INS.
- 2. REFER TO MECHANICAL SCHEDULES FOR ADDITIONAL INFORMATION WITHIN DIVISION 26 SCOPE SUCH AS INTERLOCKING WITH CONTROLS OR OTHER EQUIPMENT.

LVL2 - AREA G 1M2G 56,58,60

3. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH DIVISION 22 AND 23 CONTRACTORS TO PROVIDE EXACT POWER REQUIREMENTS FOR ALL SUBMITTED EQUIPMENT THAT DIFFERS FROM THE BASIS OF DESIGN.

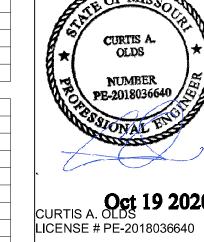
- A. DISCONNECTING MEANS (FRACTIONAL HP SWITCH, (FUSED) DISCONNECT SWITCH) AND/OR CONTROLLER (STARTER, VFD) PROVIDED BY DIVISION 23 CONTRACTOR OR FACTORY MOUNTED.
- B. PROVIDE UNIT MOUNTED FRACTIONAL HP MOTOR RATED SWITCH AS DISCONNECTING MEANS. C. INDOOR UNIT OF SPLIT SYSTEM POWERED VIA OUTDOOR CONDENSING UNIT.
- REFER TO MANUFACTURER'S INSTRUCTIONS FOR PROPER INSTALLATION. D. DISCONNECTING MEANS PROVIDED VIA CORD AND PLUG CONNECTION. E. LINE VOLTAGE POWER CONNECTED TO DIVISION 23 PROVIDED LOW VOLTAGE, UNIT MOUNTED, EQUIPMENT TRANSFORMER. RE: MECHANICAL PLANS FOR
- ADDITIONAL REQUIREMENTS. F. DISCONNECTING MEANS PROVIDED BY LOCKABLE CIRCUIT BREAKER, RE: ONE-LINE DIAGRAM (E8.X) OR PANEL SCHEDULES (E6.X).
- G. EQUIPMENT PROVIDED BY DIVISION 23 CONTRACTOR, INSTALLED BY DIVISION 26 CONTRACTOR. CONTRACTOR SHALL CONFIRM CONTROLLER/EQUIPMENT
- PAIRING WITH MECHANICAL PLANS AND SCHEDULES. H. MAKE UP AIR UNIT HAS TWO POWER CONNECTIONS. CIRCUIT AS SHOWN ON
- PLAN. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER. I. DIVISION 26 CONTRACTOR TO PROVIDE ALL INTERCONNECTION BETWEEN KITCHEN EXHAUST HOOD AND ROOF MOUNTED EQUIPMENT TO PROVIDE A
- FULLY FUNCTIONAL SYSTEM. COORDINATE REQUIREMENTS WITH MANUFACTURER. J. DIVISION 26 CONTRACTOR TO PROVIDE ALL INTERCONNECTION BETWEEN DISHWASHER EXHAUST HOOD AND ROOF MOUNTED EQUIPMENT TO PROVIDE
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CONTACT TO PROVIDE DISCONNECTING MEANS AND INTERFACE WITH BAS

ELECTRICAL PLAN NOTES:

E40 CONTRACTOR TO PROVIDE 120V POWER CONNECTION FOR MECHANICAL CONTROL PANEL. COORDINATE INSTALLATION REQUIREMENTS WITH E95 PROVIDE EMERGENCY SHUTOFF BUTTON FOR BOILERS, PROVIDE WITH RED PLACARD ABOVE BUTTON STATING "BOILER EMERGENCY SHUTOFF" IN 1/4" WHITE LETTERING

SYSTEM. COORDINATE REQUIREMENTS WITH BAS SYSTEM.

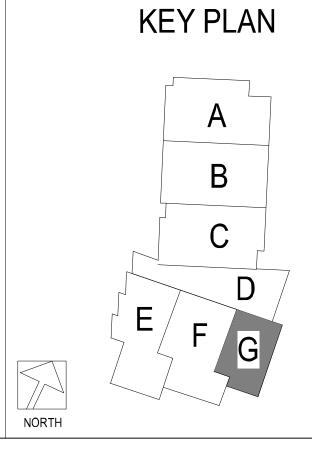


CONSTRUCTION

LEE'S SUMMIT, MISSOURI

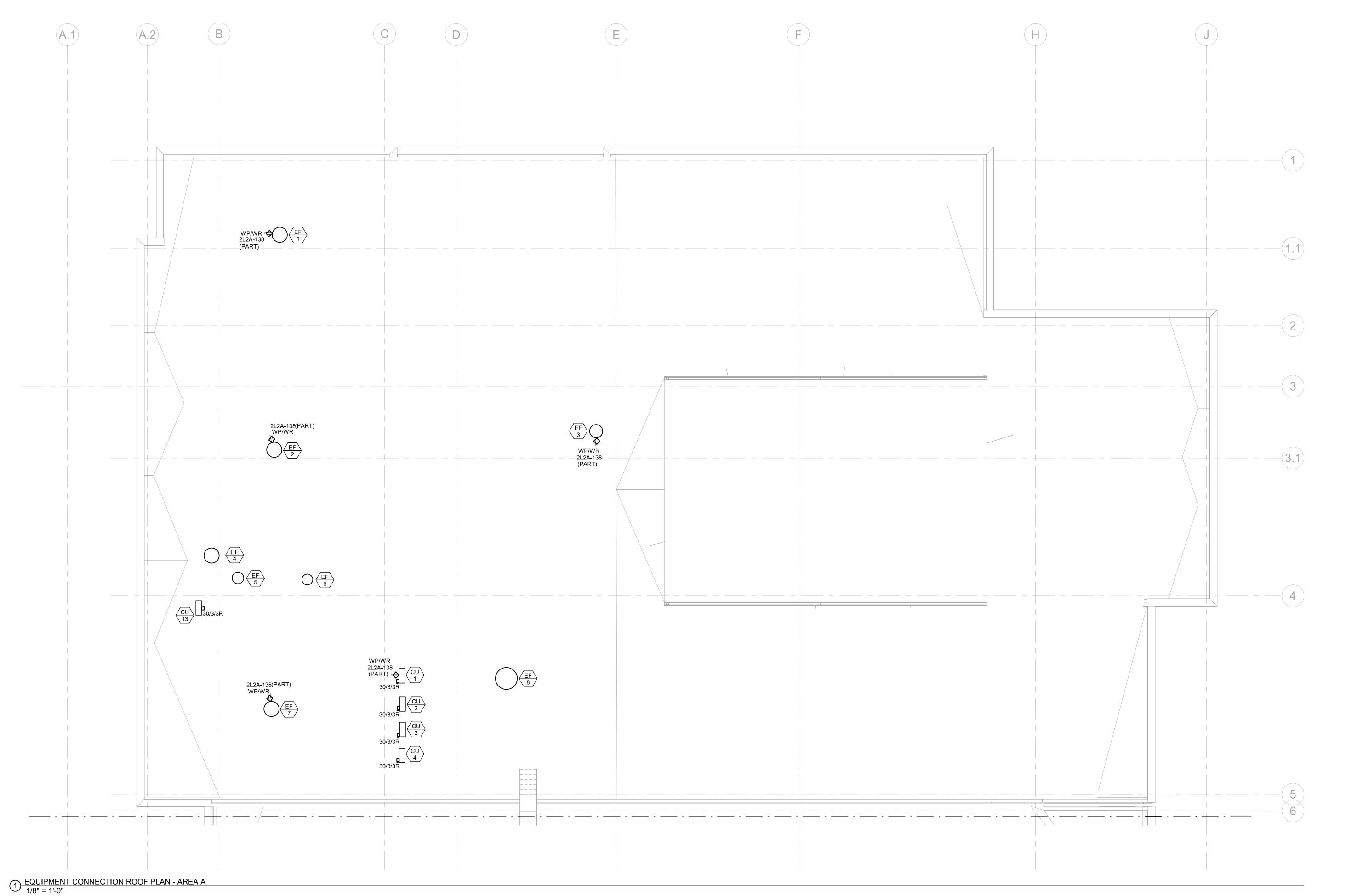
PACKAGE 3 - BUILDING &

10/08/20 REVISIONS ADDENDUM 002



13-20102-00 **EQUIPMENT** CONNECTION SECOND LEVEL PLAN - AREA G

E3.2G



EQUIP (CONN	ROO	F - AR	EA A
MARK	LOCATION	PANEL	CIRCUIT	NOTE
COMPUTER ROOM - OU	TDOOR			
CU 1	ROOF - AREA A	2L2A	162,164	
CU 2	ROOF - AREA A	2L1A	162,164	
CU 3	ROOF - AREA A	2L1A	166,168	
CU 4	ROOF - AREA A	2L2A	166,168	
CU 13	ROOF - AREA A	2L2A	158,160	
FAN			1	
EF 1	ROOF - AREA A	2L2A	140	Α
EF 2	ROOF - AREA A	2L2A	142	Α
EF 3	ROOF - AREA A	2L2A	144	Α
EF 4	ROOF - AREA A	~21-24~~	~~146~~~	~~~
EF 5	ROOF - AREA	2L2A	118	L
EF 6	ROOF - AREA A	my 22		\sim
EF 7	ROOF - AREA A	2L2A	150	А
EF 8	ROOF - AREA A	2L2A	152,154	Α

1. COORDINATE ALL FINAL CONNECTIONS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-INS. 2. REFER TO MECHANICAL SCHEDULES FOR ADDITIONAL INFORMATION WITHIN DIVISION 26 SCOPE SUCH AS INTERLOCKING WITH CONTROLS OR OTHER EQUIPMENT. 3. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH DIVISION 22 AND 23 CONTRACTORS TO PROVIDE EXACT POWER REQUIREMENTS FOR ALL

SUBMITTED EQUIPMENT THAT DIFFERS FROM THE BASIS OF DESIGN.

A. DISCONNECTING MEANS (FRACTIONAL HP SWITCH, (FUSED) DISCONNECT SWITCH) AND/OR CONTROLLER (STARTER, VFD) PROVIDED BY DIVISION 23 CONTRÁCTOR OR FACTORY MOUNTED. B. PROVIDE UNIT MOUNTED FRACTIONAL HP MOTOR RATED SWITCH AS DISCONNECTING MEANS.

C. INDOOR UNIT OF SPLIT SYSTEM POWERED VIA OUTDOOR CONDENSING UNIT. REFER TO MANUFACTURER'S INSTRUCTIONS FOR PROPER INSTALLATION. D. DISCONNECTING MEANS PROVIDED VIA CORD AND PLUG CONNECTION. E. LINE VOLTAGE POWER CONNECTED TO DIVISION 23 PROVIDED LOW VOLTAGE, UNIT MOUNTED, EQUIPMENT TRANSFORMER. RE: MECHANICAL PLANS FOR

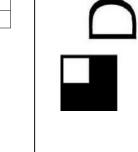
ADDITIONAL REQUIREMENTS. F. DISCONNECTING MEANS PROVIDED BY LOCKABLE CIRCUIT BREAKER, RE: ONE-LINE DIAGRAM (E8.X) OR PANEL SCHEDULES (E6.X). G. EQUIPMENT PROVIDED BY DIVISION 23 CONTRACTOR, INSTALLED BY DIVISION 26 CONTRACTOR. CONTRACTOR SHALL CONFIRM CONTROLLER/EQUIPMENT PAIRING WITH MECHANICAL PLANS AND SCHEDULES. H. MAKE UP AIR UNIT HAS TWO POWER CONNECTIONS. CIRCUIT AS SHOWN ON

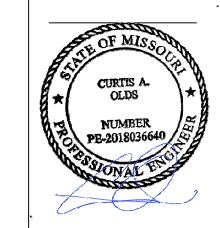
PLAN. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER. I. DIVISION 26 CONTRACTOR TO PROVIDE ALL INTERCONNECTION BETWEEN KITCHEN EXHAUST HOOD AND ROOF MOUNTED EQUIPMENT TO PROVIDE A FULLY FUNCTIONAL SYSTEM. COORDINATE REQUIREMENTS WITH MANUFACTURER. J. DIVISION 26 CONTRACTOR TO PROVIDE ALL INTERCONNECTION BETWEEN DISHWASHER EXHAUST HOOD AND ROOF MOUNTED EQUIPMENT TO PROVIDE

MANUFACTURER. K. DIVISION 26 CONTRACTOR TO PROVIDE NON-FUSED/FUSED SWITCH SIZED PER EQUIPMENT MANUFACTURER'S SPECIFICATIONS AND NEC

L. PROVIDE AN INTEGRAL HORSEPOWER MANUAL CONTROLLER WITH AUXILIARY CONTACT TO PROVIDE DISCONNECTING MEANS AND INTERFACE WITH BAS SYSTEM. COORDINATE REQUIREMENTS WITH BAS SYSTEM.

A FULLY FUNCTIONAL SYSTEM. COORDINATE REQUIREMENTS WITH





CONSTRUCTION AS NOTED ON PLANS REVIEW

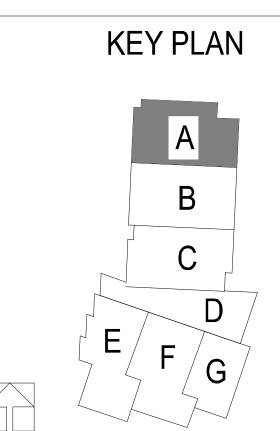
DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

LICENSE # PE-2018036640

PACKAGE 3 - BUILDING & SITE 10/08/20 REVISIONS

ADDENDUM 002



13-20102-00 **EQUIPMENT** CONNECTION ROOF PLAN -AREA A E3.3A

EQUIP CONN. - ROOF - AREA B MARK LOCATION PANEL CIRCUIT NOTES COMPUTER ROOM - OUTDOOR ROOF - AREA B 2L1B 166,168 ROOF - AREA B 2L2B 166,168

GENERAL NOTES:

- 1. COORDINATE ALL FINAL CONNECTIONS WITH MECHANICAL CONTRACTOR
- PRIOR TO ROUGH-INS 2. REFER TO MECHANICAL SCHEDULES FOR ADDITIONAL INFORMATION WITHIN DIVISION 26 SCOPE SUCH AS INTERLOCKING WITH CONTROLS OR OTHER

ROOF - AREA B 2L2B 158,160

EQUIPMENT. 3. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH DIVISION 22 AND 23 CONTRACTORS TO PROVIDE EXACT POWER REQUIREMENTS FOR ALL

- A. DISCONNECTING MEANS (FRACTIONAL HP SWITCH, (FUSED) DISCONNECT SWITCH) AND/OR CONTROLLER (STARTER, VFD) PROVIDED BY DIVISION 23 CONTRÁCTOR OR FACTORY MOUNTED.
- B. PROVIDE UNIT MOUNTED FRACTIONAL HP MOTOR RATED SWITCH AS

SUBMITTED EQUIPMENT THAT DIFFERS FROM THE BASIS OF DESIGN.

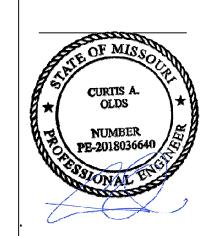
- DISCONNECTING MEANS. C. INDOOR UNIT OF SPLIT SYSTEM POWERED VIA OUTDOOR CONDENSING UNIT.
 REFER TO MANUFACTURER'S INSTRUCTIONS FOR PROPER INSTALLATION.
- D. DISCONNECTING MEANS PROVIDED VIA CORD AND PLUG CONNECTION.
- E. LINE VOLTAGE POWER CONNECTED TO DIVISION 23 PROVIDED LOW VOLTAGE, UNIT MOUNTED, EQUIPMENT TRANSFORMER. RE: MECHANICAL PLANS FOR ADDITIONAL REQUIREMENTS.
- F. DISCONNECTING MEANS PROVIDED BY LOCKABLE CIRCUIT BREAKER, RE: ONE-
- LINE DIAGRAM (E8.X) OR PANEL SCHEDULES (E6.X). G. EQUIPMENT PROVIDED BY DIVISION 23 CONTRACTOR, INSTALLED BY DIVISION
- 26 CONTRACTOR. CONTRACTOR SHALL CONFIRM CONTROLLER/EQUIPMENT PAIRING WITH MECHANICAL PLANS AND SCHEDULES. H. MAKE UP AIR UNIT HAS TWO POWER CONNECTIONS. CIRCUIT AS SHOWN ON
- PLAN. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER. I. DIVISION 26 CONTRACTOR TO PROVIDE ALL INTERCONNECTION BETWEEN KITCHEN EXHAUST HOOD AND ROOF MOUNTED EQUIPMENT TO PROVIDE A
- FULLY FUNCTIONAL SYSTEM. COORDINATE REQUIREMENTS WITH MANUFACTURER. J. DIVISION 26 CONTRACTOR TO PROVIDE ALL INTERCONNECTION BETWEEN DISHWASHER EXHAUST HOOD AND ROOF MOUNTED EQUIPMENT TO PROVIDE
- A FULLY FUNCTIONAL SYSTEM. COORDINATE REQUIREMENTS WITH MANUFACTURER. K. DIVISION 26 CONTRACTOR TO PROVIDE NON-FUSED/FUSED SWITCH SIZED PER EQUIPMENT MANUFACTURER'S SPECIFICATIONS AND NEC.

AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

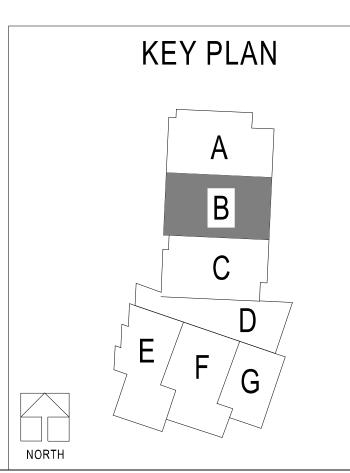
LEE'S SUMMIT, MISSOURI

CONSTRUCTION



LICENSE # PE-2018036640

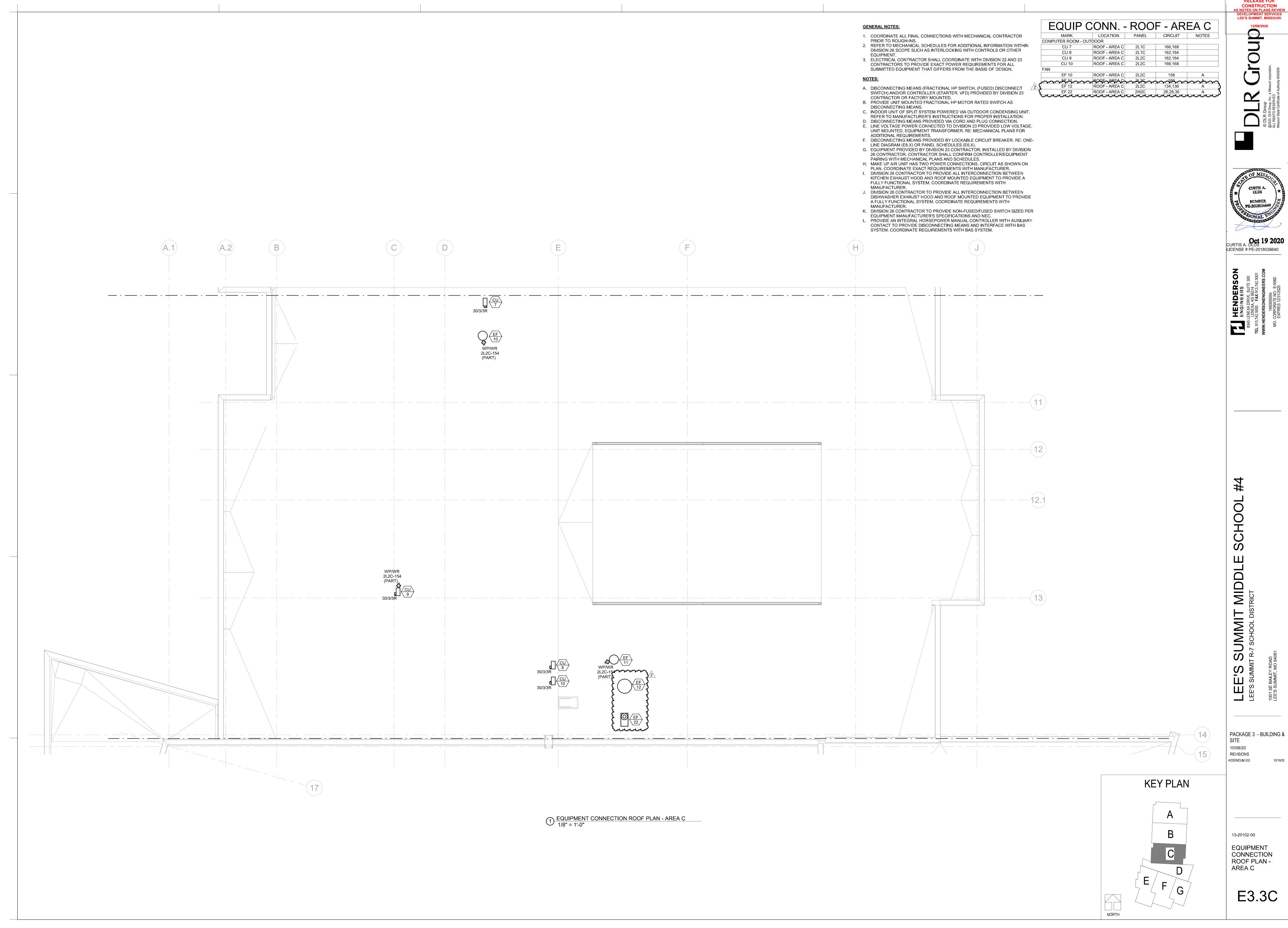
PACKAGE 3 - BUILDING & SITE 10/08/20



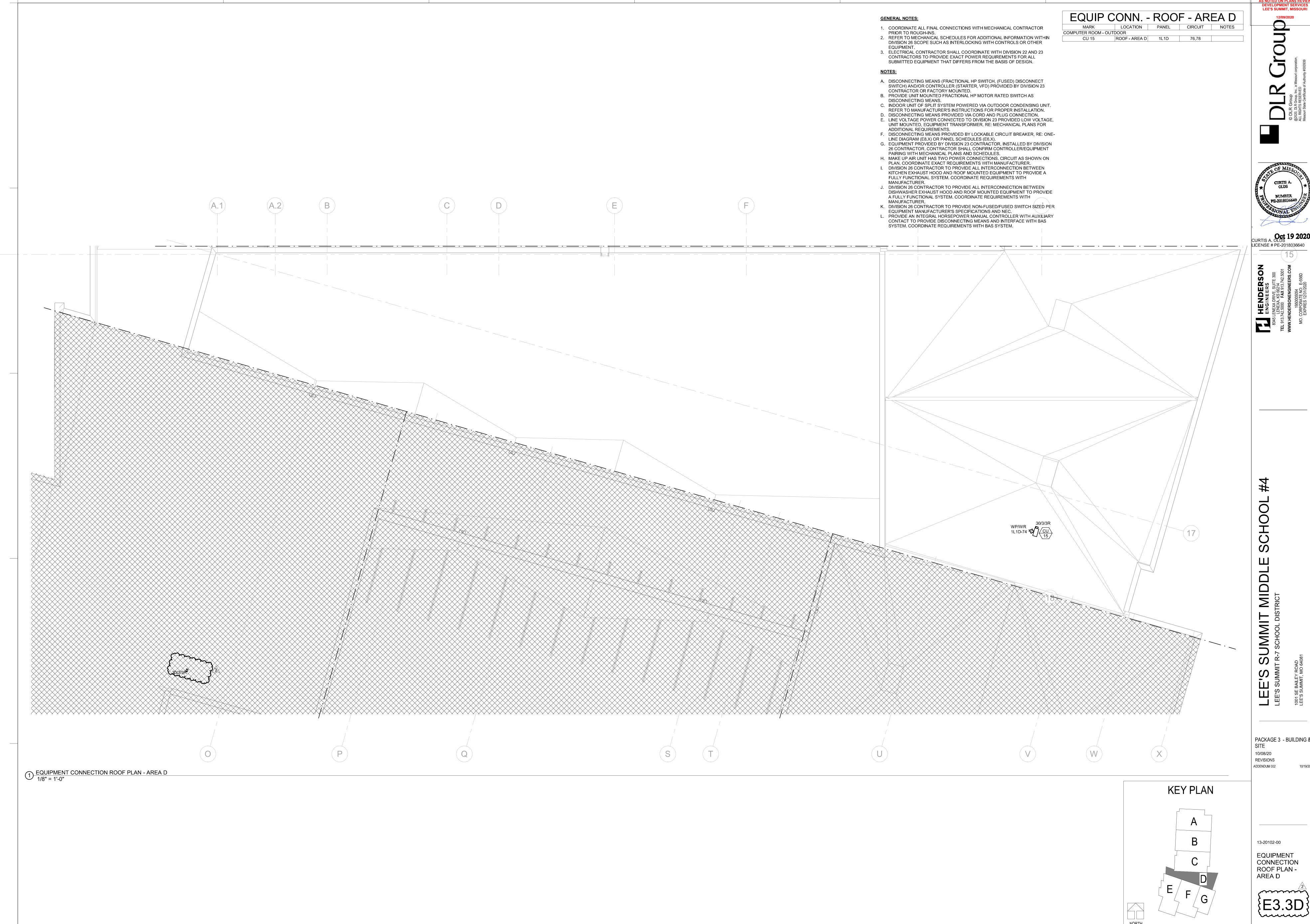
13-20102-00 EQUIPMENT CONNECTION ROOF PLAN -AREA B

REVISIONS

E3.3B



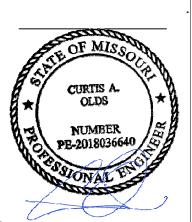
RELEASE FOR

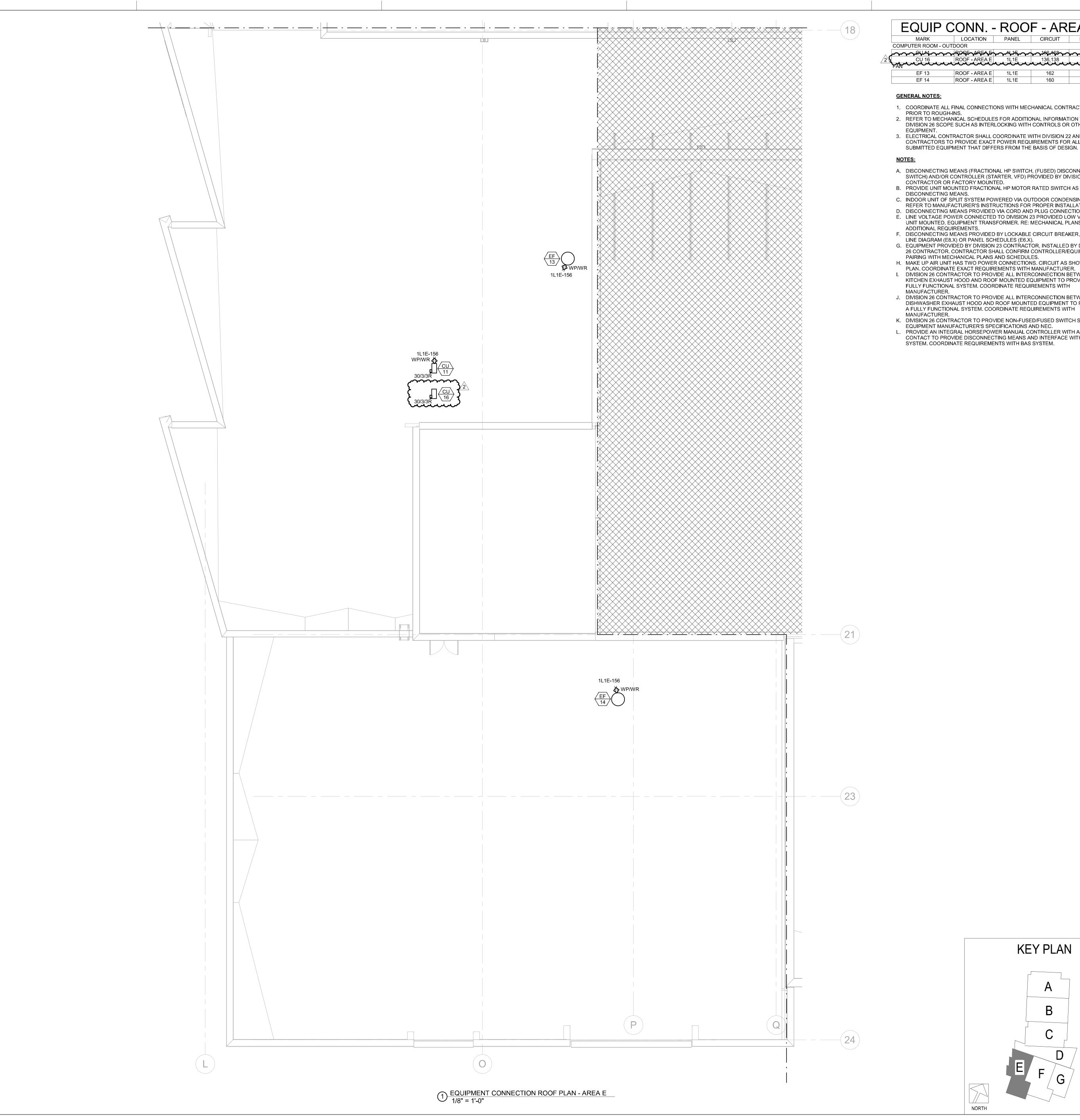


CONSTRUCTION AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI





EQUIP CONN. - ROOF - AREA E

MARK LOCATION PANEL CIRCUIT NOTES COMPUTER ROOM - OUTDOOR ACCEPTED TO THE PROPERTY AND ACCEPTED TO THE

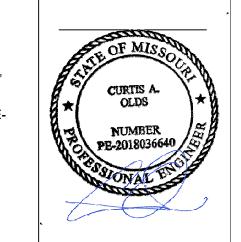
CU 16 ROOF - AREA E 1L1E 136,138 EF 13 ROOF - AREA E 1L1E ROOF - AREA E 1L1E

- 1. COORDINATE ALL FINAL CONNECTIONS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-INS.
- 2. REFER TO MECHANICAL SCHEDULES FOR ADDITIONAL INFORMATION WITHIN DIVISION 26 SCOPE SUCH AS INTERLOCKING WITH CONTROLS OR OTHER EQUIPMENT.
- 3. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH DIVISION 22 AND 23 CONTRACTORS TO PROVIDE EXACT POWER REQUIREMENTS FOR ALL SUBMITTED EQUIPMENT THAT DIFFERS FROM THE BASIS OF DESIGN.
- A. DISCONNECTING MEANS (FRACTIONAL HP SWITCH, (FUSED) DISCONNECT SWITCH) AND/OR CONTROLLER (STARTER, VFD) PROVIDED BY DIVISION 23 CONTRÁCTOR OR FACTORY MOÙNTED. B. PROVIDE UNIT MOUNTED FRACTIONAL HP MOTOR RATED SWITCH AS
- C. INDOOR UNIT OF SPLIT SYSTEM POWERED VIA OUTDOOR CONDENSING UNIT. REFER TO MANUFACTURER'S INSTRUCTIONS FOR PROPER INSTALLATION. D. DISCONNECTING MEANS PROVIDED VIA CORD AND PLUG CONNECTION. E. LINE VOLTAGE POWER CONNECTED TO DIVISION 23 PROVIDED LOW VOLTAGE,
- UNIT MOUNTED, EQUIPMENT TRANSFORMER. RE: MECHANICAL PLANS FOR ADDITIONAL REQUIREMENTS. F. DISCONNECTING MEANS PROVIDED BY LOCKABLE CIRCUIT BREAKER, RE: ONE-LINE DIAGRAM (E8.X) OR PANEL SCHEDULES (E6.X).
- G. EQUIPMENT PROVIDED BY DIVISION 23 CONTRACTOR, INSTALLED BY DIVISION 26 CONTRACTOR. CONTRACTOR SHALL CONFIRM CONTROLLER/EQUIPMENT PAIRING WITH MECHANICAL PLANS AND SCHEDULES. H. MAKE UP AIR UNIT HAS TWO POWER CONNECTIONS. CIRCUIT AS SHOWN ON
- I. DIVISION 26 CONTRACTOR TO PROVIDE ALL INTERCONNECTION BETWEEN KITCHEN EXHAUST HOOD AND ROOF MOUNTED EQUIPMENT TO PROVIDE A FULLY FUNCTIONAL SYSTEM. COORDINATE REQUIREMENTS WITH MANUFACTURER.
- J. DIVISION 26 CONTRACTOR TO PROVIDE ALL INTERCONNECTION BETWEEN DISHWASHER EXHAUST HOOD AND ROOF MOUNTED EQUIPMENT TO PROVIDE A FULLY FUNCTIONAL SYSTEM. COORDINATE REQUIREMENTS WITH MANUFACTURER. K. DIVISION 26 CONTRACTOR TO PROVIDE NON-FUSED/FUSED SWITCH SIZED PER
- EQUIPMENT MANUFACTURER'S SPECIFICATIONS AND NEC. L. PROVIDE AN INTEGRAL HORSEPOWER MANUAL CONTROLLER WITH AUXILIARY CONTACT TO PROVIDE DISCONNECTING MEANS AND INTERFACE WITH BAS SYSTEM. COORDINATE REQUIREMENTS WITH BAS SYSTEM.

CONSTRUCTION AS NOTED ON PLANS REVIEW

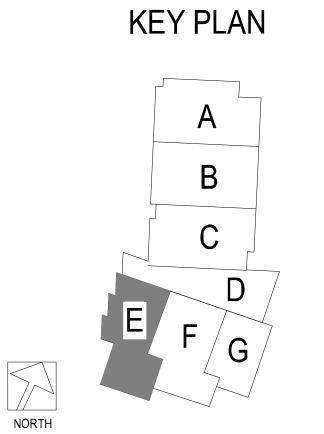
DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI



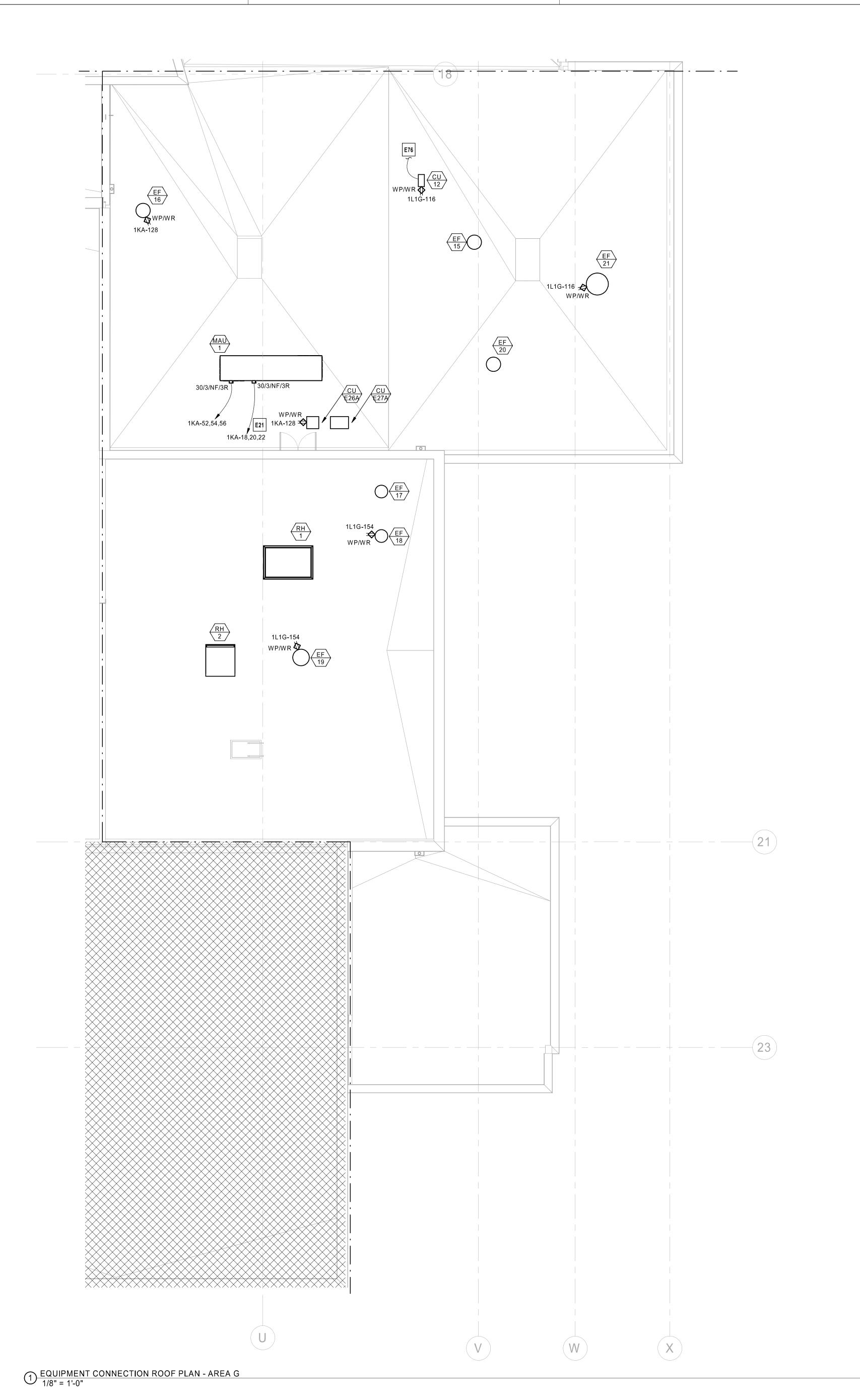
LICENSE # PE-2018036640

REVISIONS



13-20102-00 EQUIPMENT CONNECTION ROOF PLAN -AREA E

E3.3E



EQUIP CONN. - ROOF - AREA G MARK LOCATION PANEL CIRCUIT NOTES COMPUTER ROOM - OUTDOOR CU 12 ROOF - AREA G 1L1G 166,168 ROOF - AREA G ROOF - AREA G 1KA 85,87 ROOF - AREA G 1KA ROOF - AREA G 1KA 89,91 ROOF - AREA G 1L1G 134 ROOF - AREA G 1L1G 136 EF 21 ROOF - AREA G 1L1G FOOD SERVICE CU E26A ROOF - AREA G 1KA 40,42,44 CU E27A ROOF - AREA G 1KA 46,48,50 ROOF - AREA G 1KA 52,54,56 H,K

GENERAL NOTES:

- COORDINATE ALL FINAL CONNECTIONS WITH MECHANICAL CONTRACTOR
 PRIOR TO ROUGH-INS.

 PRIOR TO MECHANICAL COLUMN TO FOR ARRITIONAL INFORMATION WITH
- 2. REFER TO MECHANICAL SCHEDULES FOR ADDITIONAL INFORMATION WITHIN DIVISION 26 SCOPE SUCH AS INTERLOCKING WITH CONTROLS OR OTHER EQUIPMENT.

 3. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH DIVISION 33 AND 33
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH DIVISION 22 AND 23 CONTRACTORS TO PROVIDE EXACT POWER REQUIREMENTS FOR ALL SUBMITTED EQUIPMENT THAT DIFFERS FROM THE BASIS OF DESIGN.

<u>NC</u>

- A. DISCONNECTING MEANS (FRACTIONAL HP SWITCH, (FUSED) DISCONNECT SWITCH) AND/OR CONTROLLER (STARTER, VFD) PROVIDED BY DIVISION 23 CONTRACTOR OR FACTORY MOUNTED.
- B. PROVIDE UNIT MOUNTED FRACTIONAL HP MOTOR RATED SWITCH AS
 DISCONNECTING MEANS.
 C. INDOOR UNIT OF SPLIT SYSTEM POWERED VIA OUTDOOR CONDENSING UNIT.
- REFER TO MANUFACTURER'S INSTRUCTIONS FOR PROPER INSTALLATION.

 D. DISCONNECTING MEANS PROVIDED VIA CORD AND PLUG CONNECTION.

 E. LINE VOLTAGE POWER CONNECTED TO DIVISION 23 PROVIDED LOW VOLTAGE,
- UNIT MOUNTED, EQUIPMENT TRANSFORMER. RE: MECHANICAL PLANS FOR ADDITIONAL REQUIREMENTS.

 F. DISCONNECTING MEANS PROVIDED BY LOCKABLE CIRCUIT BREAKER, RE: ONE-
- LINE DIAGRAM (E8.X) OR PANEL SCHEDULES (E6.X).

 G. EQUIPMENT PROVIDED BY DIVISION 23 CONTRACTOR, INSTALLED BY DIVISION 26 CONTRACTOR, CONTRACTOR SHALL CONFIRM CONTROLLER/EQUIPMENT

J. DIVISION 26 CONTRACTOR TO PROVIDE ALL INTERCONNECTION BETWEEN

DISHWASHER EXHAUST HOOD AND ROOF MOUNTED EQUIPMENT TO PROVIDE

- 26 CONTRACTOR. CONTRACTOR SHALL CONFIRM CONTROLLER/EQUIPMENT
 PAIRING WITH MECHANICAL PLANS AND SCHEDULES.
 H. MAKE UP AIR UNIT HAS TWO POWER CONNECTIONS. CIRCUIT AS SHOWN ON
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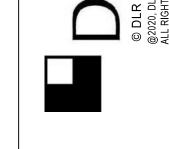
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- MANUFACTURER.
 K. DIVISION 26 CONTRACTOR TO PROVIDE NON-FUSED/FUSED SWITCH SIZED PER EQUIPMENT MANUFACTURER'S SPECIFICATIONS AND NEC.

A FULLY FUNCTIONAL SYSTEM. COORDINATE REQUIREMENTS WITH

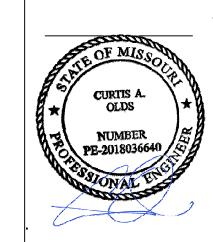
ELECTRICAL PLAN NOTES:

MANUFACTURER.

- E21 ROUTE CIRCUIT FOR MAKEUP AIR UNIT SUPPLY FAN THROUGH THE HOOD CONTROL PANEL. REFER TO SHEET E4.1 FOR MORE INFORMATION. COORDINATE REQUIREMENTS WITH MANUFACTURER.
- E76 ROUTE CIRCUIT TO ASSOCIATED INDOOR UNIT. REFER TO MECHANICAL PLANS FOR MORE INFORMATION.



RELEASE FOR CONSTRUCTION

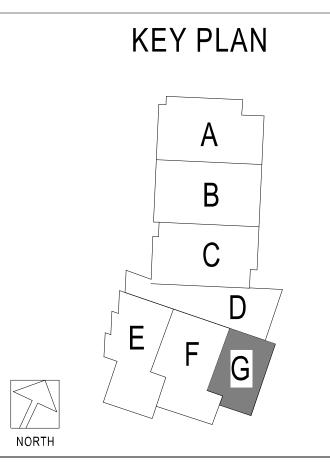


Oct 8 2020 CURTIS A. OLDS LICENSE # PE-2018036640

HENDERSON
ENGINEERS
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
TEL 913.742.5000 FAX 913.742.5001
WWW.HENDERSONENGINEERS.COM
1950005054
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2020

LEE'S SUMMIT R-7 SCHOOL DISTRICT

PACKAGE 3 - BUILDING & SITE
10/08/20
REVISIONS



EQUIPMENT CONNECTION ROOF PLAN -AREA G

E3.3G