

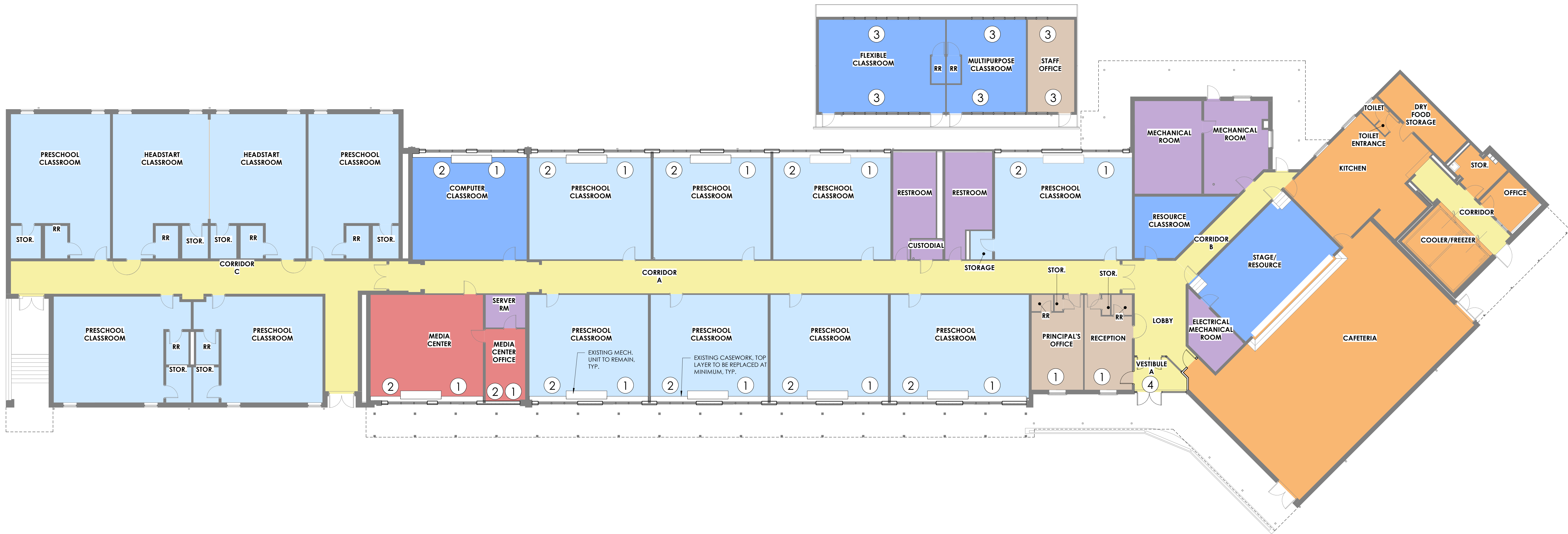
PROJECT SCOPE

PROGRAM ADDITIONS AND REVISIONS

1. REPLACE WINDOW SYSTEM @ ORIGINAL CLASSROOM WING  
2. REPLACE EXTERIOR WALL SYSTEM - REQUIRED WITH WINDOW DEMOLITION  
3. REPLACE WINDOWS AT ADJUNCT CLASSROOM BUILDING  
4. SECURE ENTRY VESTIBULE

DEPARTMENT LEGEND

- ADMINISTRATION  
CIRCULATION  
CLASSROOM (PRESCHOOL & HEADSTART)  
KITCHEN/ CAFETERIA  
MEDIA CENTER  
SPECIALTY CLASSROOMS  
SUPPORT SPACES



COLORED FLOOR PLAN  
3/32" = 1'-0"

REVISIONS		
#	DATE	DESCRIPTION

MECHANICAL LEGEND			
FIRE PROTECTION LEGEND		HVAC LEGEND	
	FIRE PROTECTION MAIN (REFER TO PLANS FOR PIPE SIZE)		RECTANGULAR DUCT - WIDTH X DEPTH (REFER TO PLANS FOR DUCT SIZE)
	SUPERVISED VALVE		INTERNALLY LINED DUCT
	INSPECTOR'S TEST PIPING		OVAl DUCT - WIDTH X DEPTH
	FLOW SWITCH		8" RD
	PRESSURE GAUGE		FLEXIBLE DUCT
	SPRINKLER HEAD (SEMI-RECESSED)		RISE IN DIRECTION OF ARROW
	SPRINKLER HEAD (CONCEALED)		RECTANGULAR TO ROUND TRANSITION
	SPRINKLER HEAD (PENDENT)		SQUARE ELBOW WITH TURNING VANES
	SPRINKLER HEAD (PENDENT - DRY TYPE)		MANUAL VOLUME/BALANCING DAMPER
	SPRINKLER HEAD (HIGH TEMPERATURE)		FIRE DAMPER
	SPRINKLER HEAD (UPRIGHT)		ROUND DUCT - UP, DOWN
	SPRINKLER HEAD (SIDEWALL - EXISTING)		SUPPLY DUCT - UP, DOWN
	SPRINKLER HEAD (SIDEWALL)		RETURN DUCT - UP, DOWN
	SPRINKLER HEAD (SIDEWALL-EXTENDED COVERAGE)		EXHAUST DUCT - UP, DOWN
			FLEXIBLE CONNECTION
			MOTOR-OPERATED DAMPER
			CONTROL DAMPER
			SOUND TRAP
			ACCESS DOOR - PLAN, SIDE VIEW
			UNIT SYMBOL, WATER FLOW (GPM)
			STATIC PRESSURE SENSOR IN DUCT
			TEMPERATURE SENSOR
			CO2 SENSOR
			HUMIDITY SENSOR
			FREEZESTAT
			CURRENT SENSING SWITCH
			DIFFERENTIAL PRESSURE SWITCH
			VARIABLE FREQUENCY DRIVE
			STARTER
			SUPPLY DIFFUSER - TYPE, AIR QUANTITY
			SUPPLY DIFFUSER - ELEVATION
			RETURN INLET - TYPE, AIR QUANTITY
			SIDEWALL RETURN GRILLE - ELEVATION
			SIDEWALL RETURN GRILLE - PLAN
			EXHAUST INLET - TYPE, AIR QUANTITY
			EXHAUST/RETURN INLET - ELEVATION
	</		

- FIRE PROTECTION GENERAL NOTES:**
1. PIPING IN ROOMS WITH SUSPENDED CEILINGS SHALL BE ABOVE CEILING UNLESS OTHERWISE NOTED.
  2. LOCATIONS OF PIPING AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD, DO NOT SCALE THE DRAWINGS.
  3. ALL OFFSETS IN PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY.
  4. COORDINATE WITH HVAC, PLUMBING, AND ELECTRICAL EQUIPMENT TO AVOID INTERFERENCE WITH PIPING, DUCT AND CONDUIT.
  5. INSTALL PIPING AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
  6. SEAL AIRTIGHT AROUND ALL PIPING PENETRATIONS THROUGH WALLS, FLOORS, AND ROOF.
  7. CENTER SPRINKLER HEADS IN SUSPENDED ACOUSTICAL CEILING TILES. SEE DETAIL ON THIS DRAWING.
  8. PROVIDE DRAINS AT LOW POINTS PER NFPA-13.
  9. PITCH ALL SPRINKLER PIPING TO MAIN. IF PIPING CANNOT BE PITCHED TO MAIN, PROVIDE AUXILIARY DRAINS AT LOW POINTS.
  10. PROVIDE GUARDS ON ALL HEADS INSTALLED 8'-0" OR LESS ABOVE THE FLOOR UNLESS DIRECTED OTHERWISE BY ENGINEER.
  11. IN MECHANICAL ROOMS OR SIMILAR AREAS WHERE INTERFERENCE OCCURS WITH SPRINKLER DISCHARGE, PROVIDE ADDITIONAL SPRINKLER HEAD(S) AS REQUIRED PER NFPA-13.
  12. INDIVIDUAL BRANCH LINE SIZE TO A SPRINKLER HEAD SHALL BE 1"
  13. ALL PIPING SHALL BE INSTALLED PARALLEL AND PERPENDICULAR TO WALLS, FLOORS, AND CEILINGS AND HORIZONTAL, UNLESS SPECIFICALLY SHOWN OTHERWISE ON DRAWINGS OR UNABLE DUE TO INTERFERENCES.
  14. PROVIDE SEISMIC BRACING FOR PIPING AND EQUIPMENT AS REQUIRED BY KENTUCKY BUILDING CODE. SEE SPECIFICATIONS.
  15. DO NOT SUPPORT ANY PIPING FROM THE RAISED ACCESS FLOOR.

- HVAC GENERAL NOTES:**
1. DUCTWORK AND PIPING IN ROOMS WITH SUSPENDED CEILINGS SHALL BE ABOVE CEILING EXCEPT IN EQUIPMENT ROOMS.
  2. INSTALL AIR VENTS AT HIGH POINTS IN PIPING AND DRAINS IN LOW POINTS.
  3. LOCATIONS OF PIPING, DUCT, AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD, DO NOT SCALE THE DRAWINGS.
  4. ALL OFFSETS IN DUCTS AND PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY.
  5. ALL INCREASERS AND REDUCERS IN PIPING SYSTEM ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL INCREASERS AND REDUCERS WHERE REQUIRED.
  6. COORDINATE WITH PLUMBING, SHEET METAL, FIRE PROTECTION, AND ELECTRICAL CONTRACTORS TO AVOID INTERFERENCE WITH PIPING, DUCTS, AND CONDUIT.
  7. INSTALL ALL PIPING, DUCTWORK, AND EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
  8. SEAL AIRTIGHT AROUND ALL DUCT AND PIPING PENETRATIONS THROUGH WALLS AND FLOORS.
  9. SEAL ALL DUCTWORK WITH DUCT SEALANT AND/OR DUCT CEMENT IN ACCORDANCE WITH SPECIFICATIONS SECTION "METAL DUCTWORK."
  10. DIMENSIONS FOR DUCTS ARE INSIDE DIMENSIONS.
  11. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF GRILLES AND DIFFUSERS IN CEILINGS.
  12. DO NOT RUN ANY PIPING OR DUCTWORK OVER ANY ELECTRICAL OR ELEVATOR EQUIPMENT.
  13. INSTALL ACCESS DOOR IN DUCT ADJACENT TO EACH MOTOR OPERATED DAMPER.
  14. ROLL FITTINGS IN ROUND DUCT AS REQUIRED FOR PROPER CONNECTIONS TO BRANCH DUCTS.
  15. WHERE SIZE OF DUCT PENETRATING A FIRE WALL OR PARTITION IS LESS THAN THE MINIMUM SIZE OF FACTORY-MADE FIRE DAMPER OR DUCT ACCESS DOOR, PROVIDE THE MINIMUM SIZE FACTORY-MADE DAMPER AND/OR ACCESS DOOR AVAILABLE. INCREASE DUCT SIZE AS REQUIRED TO ACCOMMODATE TRANSITIONS UPSTREAM AND DOWN STREAM OF SIZE INCREASE.
  16. ALL TRANSITIONS IN DUCTWORK ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL TRANSITIONS WHERE REQUIRED.
  17. FIELD VERIFY EXISTING CONDITIONS AND ALL REQUIRED MEASUREMENTS BEFORE FABRICATING ANY PIPING, DUCTWORK, OR EQUIPMENT.
  18. INSTALL CONTROL DEVICES (SUCH AS SENSORS, SENSING WELLS, VALVES, DAMPERS, ETC.), FURNISHED BY CONTROLS SUPPLIER, IN DUCT AND PIPING SYSTEMS.
  19. PROVIDE SEISMIC BRACING FOR PIPING, DUCTWORK, AND EQUIPMENT AS REQUIRED BY KENTUCKY BUILDING CODE. SEE SPECIFICATIONS.

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NOT FOR  
CONSTRUCTION

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MECHANICAL LEGEND AND GENERAL NOTES

SOUTH IRVINE ARP ESSER EARLY CHILDHOOD CENTER RENOVATIONS

FOR:

ESTILL COUNTY BOARD OF EDUCATION

1000 SOUTH IRVINE ROAD, IRVINE, KY 40336

BG# 22-176

Project No: 2146  
Drawn By: JS  
Rev'd By: JS

SHEET RELEASE

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MECHANICAL LEGEND AND  
GENERAL NOTES  
DATE ISSUED:  
02/10/2022



**NOTE:**  
IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DUCTS REQUIRED FOR INSTALLATION OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIP OF THE WORK OF VARIOUS TRADES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTION CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES. DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTORS CONVENIENCE AND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.



REMARKS:

1. 6 IN. DRAINABLE BLADE LOUVER  
2. AMCA-500-L (AIR) AND AMCA-500-L (WATER) CERTIFIED  
3. COLOR SELECTION BY ARCHITECT

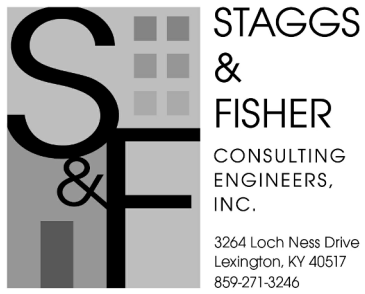
REMARKS:

1. ALUMINUM SQUARE PLAQUE DIFFUSER
2. COLOR SELECTION BY ARCHITECT

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HVAC PLAN

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SOUTH IRVINE ARP ESSER EARLY CHILDHOOD CENTER RENOVATIONS

FOR:  
ESTILL COUNTY BOARD OF EDUCATION  
1000 SOUTH IRVINE ROAD, IRVINE, KY 40336

BG#	22-176
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Project No: 2146  
 Drawn By: JS  
 Rev'd By: JS

SD SUBMITTAL

## H1.1

HVAC PLAN  
DATE ISSUED:  
02/10/2022



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



IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DUCTS REQUIRED FOR INSTALLATION OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIP OF THE WORK OF VARIOUS TRADES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTION CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES. DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTORS CONVENIENCE AND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.

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HVAC PIPING PLAN

SOUTH IRVINE ARP ESSER EARLY CHILDHOOD CENTER RENOVATIONS

FOR

ESTILL COUNTY BOARD OF EDUCATION

1000 SOUTH IRVINE ROAD, IRVINE, KY 40336

HVAC PIPING PLAN

















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


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














## ELECTRICAL LEGEND










EQUIPMENT, CONDUITS, ETC.	
	CONDUIT BELOW FLOOR
	CONDUIT ABOVE FLOOR
	ENTRANCE POINT OF CONDUIT THROUGH FLOOR
	WIREWAY OR CABLE TRAY
	WIRE MOLD (FOR POWER AND/OR DATA)
	PANEL BOARD OR TERMINAL CABINET (REFER TO PLANS AND RISER FOR SIZE)
	SECTIONAL SWITCH GEAR (REFER TO PLANS AND RISER FOR NUMBER OF SECTIONS AND LAYOUT)
	TRANSFORMER (REFER TO PLANS AND RISER FOR SIZE)
	JUNCTION BOX
	ENCLOSED CIRCUIT BREAKER
	DISCONNECT SWITCH
	FUSED DISCONNECT
	COMBINATION MAGNETIC STARTER AND FUSED SWITCH
	MOTOR
	WIRE / CONDUIT
	BOTTOM OF DEVICE (IN INCHES A.F.F.)
	SEE NOTE 1 THIS SHEET
	HEADWALL - FOR SERVICES, SEE DETAILS
	GROUND











WALL SWITCHES (BOTTOM 44" A.F.F.) (EXCEPT AS NOTED OTHERWISE)	
\$	SINGLE POLE
\$ <sub>2</sub>	DOUBLE POLE
\$ <sub>3</sub>	THREE-WAY
\$ <sub>4</sub>	FOUR-WAY
\$ <sub>LV</sub>	LOW-VOLTAGE, MOMENTARY
\$ <sub>OS</sub>	OCCUPANCY/VACANCY SENSOR SWITCH
\$ <sub>0</sub>	DIMMER
\$ <sub>PL</sub>	PILOT LIGHT
\$ <sub>OL</sub>	THERMAL OVERLOAD
\$ <sub>OL</sub> <sup>P</sup>	THERMAL OVERLOAD WITH PILOT LIGHT
\$ <sub>K</sub>	KEY OPERATED SWITCH
\$ <sub>LS</sub>	LIGHTING CONTROL STATION
\$ <sub>MS</sub>	MASTER LIGHTING CONTROL STATION

RECEPTACLES (BOTTOM 16" A.F.F.) (EXCEPT AS NOTED OTHERWISE)	
	DUPLEX CONVENIENCE OUTLET
	QUADRAPLEX CONVENIENCE OUTLET
	BOTTOM 2" ABOVE BACKSLASH/COUNTER DUPLEX OUTLET. COORDINATE WITH ARCHITECTURAL DRAWINGS.
	GROUND FAULT INTERRUPTING OUTLET
WP 	WEATHERPROOF OUTLET
SW 	SWITCHED/CONTROLLED DUPLEX OUTLET
E 	DUPLEX RECEPTACLE ON EMERGENCY CIRCUIT
CM 	CEILING MOUNTED RECEPTACLE.
USB 	USB DUPLEX RECEPTACLE.
	SIMPLEX WALL OUTLET (RATING AS NOTED)
	WALL OUTLET (240V, 1-PHASE) (RATING AS NOTED)
	WALL OUTLET (240V, 3-PHASE) (RATING AS NOTED)
	FLOOR BOX / POKE-THRU FOR POWER AND/OR DATA
	HOOD CONNECTION
	EQUIPMENT CONNECTION
	CONTROL RELAY

COMMUNICATIONS	
	TELECOMMUNICATIONS RACK
	DATA OUTLET (DATA & COMMUNICATIONS) (MOUNTED AT 16" TO THE BOTTOM AFF) (UNLESS OTHER WISE NOTED)
	<u>COMMUNICATION OUTLET NOTATION:</u>
xD xC xV	xD NUMBER OF DATA PORTS xC NUMBER OF CATV PORTS xV NUMBER OF VOICE PORTS
	GROUNDING BAR

FIRE ALARM	
	FIRE ALARM BREAKGLASS STATION (BOTTOM 44" A.F.F.)
	FIRE ALARM SPKR/FLASHING LIGHT (80" TO BOTTOM, WALL MNT)
	FIRE ALARM FLASHING LIGHT (80" TO BOTTOM, WALL MOUNTED)
	FIRE ALARM SPEAKER (80" TO BOTTOM, WALL MOUNTED)
	FIRE ALARM SPEAKER/FLASHING LIGHT (CEILING MOUNTED)
	FIRE ALARM SPEAKER (CEILING MOUNTED)
	FIRE ALARM STROBE/FLASHING LIGHT (CEILING MOUNTED)
	SINGLE STATION SMOKE DETECTOR (CEILING MOUNTED)
	ADDRESSABLE SMOKE DETECTOR (CEILING MOUNTED)
	DUCT TYPE SMOKE DETECTOR
	AUTOMATIC HEAT DETECTOR
	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR PANEL
	ELECTROMAGNETIC DOOR HOLDER
	ELECTROMAGNETIC DOOR CLOSER
	TAMPER SWITCH
	FLOW SWITCH
	REMOTE TEST ACTIVATOR

SECURITY	
	CARD READER / PROXIMITY READER
	DOOR PUSH PLATE
	KEY PAD
	DOOR CONTACTS
	T.V./SECURITY CAMERA OUTLET
	T.V./SECURITY CAMERA OUTLET WALL MOUNTED
	MOTION DETECTOR
	SIREN
	AUDIO OR GLASS BREAK SENSOR

SOUND AND INTERCOM	
	CEILING MOUNTED SPEAKER
	WALL MOUNTED SPEAKER
	WALL MOUNTED HORN
	ALARM TYPE SPEAKER
	VOLUME CONTROL
	MASTER INTERCOM STATION
	INTERCOM STATION
	MICROPHONE OUTLET IN FLOOR (FLUSH TYPE)
	MICROPHONE OUTLET IN WALL (BOTTOM 16" A.F.F.)
	CALL IN SWITCH

ELECTRICAL ABBREVIATIONS	
AFF	ABOVE FINISHED FLOOR
ATCP	AUTOMATIC TEMPERATURE CONTROL PANEL
C	CONDUIT
FA	FIRE ALARM
GFI	GROUND FAULT INTERRUPTER
IG	ISOLATED GROUND
JB	JUNCTION BOX
TTC	TELEPHONE TERMINAL CABINET
W	WIRE
F	FLUSH
P	PEDESTAL
CKT	CIRCUIT
REC(S)	RECEPTACLE(S)
LTG	LIGHTING
NL	NIGHT LIGHT
AIC	AMPERE INTERRUPTING CAPACITY
UON	UNLESS OTHERWISE NOTED
WP	WEATHER PROOF
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL
LCP	LIGHTING CONTROL PANEL

**ELECTRICAL DEMOLITION GENERAL NOTES:**


1. ALL ITEMS SHOWN AS DASHED TO BE DEMOLISHED, INCLUDING ALL CONDUIT, WIRE, JUNCTION BOXES, ETC. REMOVE  
WIRING COMPLETE BACK TO PANEL. EXISTING BREAKER IN PANEL TO REMAIN UNLESS OTHERWISE NOTED. EXISTING  
BULB AND/OR RECEPTS TO BE REMOVED. IF ANY OF THE ABOVE IS NOT TO BE REMOVED, IT IS THE RESPONSIBILITY  
TO REMAIN AND CAPPED. CONDUIT ABOVE CEILING SHALL BE REMOVED COMPLETE BACK TO PANEL.
2. BEFORE START OF WORK, THE CONTRACTOR SHALL CHECK ALL EXISTING DEVICES, LIGHT FIXTURES AND EQUIPMENT  
TO BE REMOVED OR RELOCATED. IF ANY OF THE ABOVE IS NOT TO BE REMOVED, IT IS THE RESPONSIBILITY OF  
ANY OF THE ITEMS NOT BE OPERATING, THE CONTRACTOR SHALL REPORT SAME TO THE ARCHITECT AND AWAIT  
DIRECTION. CONTRACTORS NOT COMPLYING WITH THE ABOVE WILL BE RESPONSIBLE FOR PROVIDING OPERATIONAL  
ITEMS AT HIS EXPENSE.
3. IN EXISTING AREAS WHERE NEW WORK IS SHOWN, REMOVE ALL EXISTING EXPOSED CONDUITS, WIREMOLD, SURFACE  
AND FLUSH OUTLET BOXES, WIRING DEVICES, FIXTURES, PANELS, ETC. NOT REQUIRED FOR NEW ARRANGEMENT.
4. INSTALL ALL NEW WORK AS INDICATED. FLUSH OUTLET BOXES MAY BE REUSED IF AT PROPER HEIGHT, LOCATION AND IN  
GOOD CONDITION. EXISTING CONDUITS TO BE REUSED IF AVAILABLE. IF NOT AVAILABLE, THE CONTRACTOR SHALL  
PLANS SHALL GOVERN. ALL OTHER MATERIALS REMOVED SHALL BE REMOVED FROM THE JOB SITE OR TURNED OVER TO  
THE OWNER.
5. MAINTAIN AND RESTORE, IF INTERRUPTED BY REMOVALS OR IN PATH OF NEW CONSTRUCTION, ALL CIRCUITS, CONDUITS  
AND FEEDERS PASSING THROUGH AND SERVING UNDISTURBED AREAS (SHOWN OR NOT SHOWN).
6. WHERE ANY EXISTING OUTLET (ELECTRIC, COMMUNICATION, ETC.) IS NOTED OR REQUIRED TO BE REMOVED, THE  
CONTRACTOR UNDER THIS DIVISION SHALL CONNECT CONDUIT, PULL IN NEW CONDUCTORS AND RECONNECT AS  
REQUIRED OR FEED THRU OF CIRCUITS TO ENSURE ALL CIRCUITS DOWNSTREAM FROM REMOVED OUTLETS TO  
REMAIN OPERATIONAL.
7. IN GENERAL, REMOVE EXISTING WORK OR EQUIPMENT, THE DRAWINGS SHOW EXISTING WORK TO THE EXTENT POSSIBLE.  
EXISTING WORK OR EQUIPMENT TO BE REMOVED OR RELOCATED SHALL BE IDENTIFIED BY THE CONTRACTOR. MECHANICAL  
AND ELECTRICAL WORK THAT INTERFERES WITH NEW WORK EVEN IF IT IS NOT SHOWN ON THE DRAWINGS, RELOCATE  
EXISTING WORK THAT MUST REMAIN IN SERVICE THAT INTERFERES WITH NEW WORK EVEN IF IT IS NOT SHOWN ON THE  
DRAWINGS. REMOVE OVER AND OVER REMOVED EXISTING EQUIPMENT AS INDICATED AND REMOVE OTHER EXISTING  
EXISTING WORK FROM PROJECT SITE.
8. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO REPAIR ANY HOLES LEFT IN THE EXISTING BUILDING  
FLOOR, CEILING OR WALLS TO BE REPAIRED TO ORIGINAL CONDITION.
9. ELECTRICAL CONTRACTOR SHALL REMOVE ALL ELECTRICAL CONNECTIONS TO EQUIPMENT TO BE REMOVED. EXISTING  
EXPOSED CIRCUITS NOT TO BE REUSED SHALL BE REMOVED. EXISTING CONCEALED CIRCUITS NOT TO BE REUSED SHALL  
BE ABANDONED AFTER CONDUITS ARE REMOVED. CONDUITS EXPOSED BY CONSTRUCTION SHALL BE REMOVED.
10. ALL ITEMS SHOWN AS HALF-CIRCLE/GRAY ARE EXISTING AND TO REMAIN.
11. ALL EXISTING ELECTRICAL CONNECTIONS AND DEVICES NOT SPECIFICALLY INDICATED TO REMAIN AND NOT REQUIRED  
FOR NEW ARRANGEMENT SHALL BE REMOVED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SURVEY THE SITE TO DETERMINE THE TOTAL SCOPE OF THE WORK.
12. IN REMOVED AREAS OF EXISTING BUILDING, EXISTING CONDUIT TO BE SHOWN AS OBTAINED FROM ORIGINAL BUILDING  
DRAWINGS AND FIELD SURVEY. CONTRACTOR SHALL PROVIDE EXACT ROUTING AND LOCATION FOR RECONNECTING  
CIRCUITS AS SHOWN OR REQUIRED TO WORK WITH NEW SYSTEM.

### ELECTRICAL GENERAL NOTES

1. INSTALL PANELBOARDS WITH THE TOP AT 6'-4" ABOVE FINISHED FLOOR.
2. PROVIDE SUPPORTS FOR ALL VERTICAL CONDUIT RUNS IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
3. INSTALL SECONDARY UNDERGROUND CONDUCTORS A MINIMUM OF 3" DEEP TO TOP OF CONDUIT OR ENCASMENT.
4. FLUSH-MOUNTED PANELBOARDS SHALL BE PROVIDED WITH FOUR (4) "SPARE CONDUITS CONCEALED IN WALL TO ABOVE ACCESSIBLE CEILING. TURN OUT 4" FROM WALL AND CAP.
5. ELECTRICAL CONTRACTOR SHALL INSTALL ALL ELECTRICAL EQUIPMENT IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
6. PROVIDE A COPY OF ALL COMPLETED PANEL SCHEDULES IN THE O & M MANUAL.
7. LIGHTS IN MECHANICAL SPACES SHALL BE LOCATED SO AS TO CLEAR PIPING, DUCTWORK, AND EQUIPMENT ON CEILING FIELD VERIFY.
8. COORDINATE EXACT LOCATION OF ALL LIGHT FIXTURES WITH ARCHITECTURAL REFLECTED CEILING PLANS.
9. FLEXIBLE CONDUIT SHALL BE USED FOR LIGHT WHIPS TO LIGHT FIXTURES. FLEXIBLE CONDUIT TO LIGHT FIXTURES SHALL NOT EXCEED 6'-0" AND SHALL BE A MINIMUM OF 1/2" IN DIAMETER.
10. CHAIN FOR SUPPORTING LIGHT FIXTURES SHALL BE GALVANIZED STEEL WELL CHAIN WITH A MINIMUM DEAD WEIGHT CAPACITY OF 100 LBS.
11. RECESSED LIGHTING FIXTURES IN A GRID TYPE CEILING TO BE SUPPORTED INDEPENDENTLY FROM THE GRID. SUPPORT FIXTURE FROM STRUCTURE ABOVE IN 12 GAUGE WIRE ONE ON EACH CORNER.
12. WALL MOUNTED OCCUPANCY/VACANCY SENSORS SHALL BE MOUNTED AND INSTALLED IMMEDIATELY BELOW THE CEILING AND PER THE MANUFACTURERS INSTALLATION INSTRUCTIONS FOR BEST COVERAGE. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING HEIGHTS.
13. CONTRACTOR SHALL CHECK ALL DOOR SWINGS AND SHALL BE RESPONSIBLE FOR INSTALLING ALL ROOM LIGHT SWITCHES/CONTROL STATIONS ASSOCIATED WITH DOORS ON THE STRIKE SIDE OF THE DOORS REGARDLESS OF THE INDICATION ON THE ELECTRICAL DRAWINGS. SWITCHES NOT COMPLYING SHALL BE RELOCATED AT THE CONTRACTORS EXPENSE.
14. ALL CONDUIT SHALL BE HORIZONAL TO PANELBOARD AS INDICATED ON THE DRAWINGS. COMBINING OF CIRCUITS IN CONDUITS IS NOT ALLOWED. ANY DEVIATION FROM THE DRAWINGS MUST BE APPROVED EXCEPT AS REQUIRED TO MEET THE NATIONAL ELECTRICAL CODE OR BY PERMISSION OF THE ENGINEER.
15. ALL CONDUIT SHALL BE CONCEALED IN EXISTING AND NEW WALLS AND CEILING EXCEPT MECHANICAL ROOMS. REFER TO SPECIFICATIONS.
16. ELECTRICAL CONTRACTOR SHALL LOCATE ALL ELECTRICAL EQUIPMENT AS REQUIRED TO INSURE MINIMUM CLEARANCES PROVIDED IN ACCORDANCE WITH THE N.E.C.
17. CONCERNING ALL RISER DIAGRAMS, AN ATTEMPT HAS BEEN MADE TO SHOW ALL DEVICES ON RISER DIAGRAM. ANY DEVICES SHOWN ON FLOOR PLANS AND NOT SHOWN ON RISER DIAGRAMS SHALL BE CONNECTED TO SYSTEM, AS REQUIRED.
18. ALL SCHEMATICS ARE FOR BID PURPOSES ONLY. SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH WIRING DIAGRAMS PROVIDED BY THE MANUFACTURER.
19. ALL DEVICES SHALL BE LOCATED ON CLEAR WALL SPACES. CLEAR OF ALL SHELVING, CHALKBOARDS, TACKBOARDS, CASEWORK, ETC. OUTLETS NOT COMPLYING WITH THE ABOVE SHALL BE RELOCATED AT THE CONTRACTORS EXPENSE.
20. ROUGH-IN FOR ELECTRIC DRINKING FOUNTAINS (WATER COOLERS) AND BOTTLE FILLERS SHALL BE PERFORMED IN ACCORDANCE WITH APPROVED SHOP DRAWINGS.
21. ROUGH-IN FOR EQUIPMENT SHALL BE DONE IN ACCORDANCE WITH APPROVED SHOP DRAWINGS.
22. ELECTRICAL CONTRACTOR SHALL COORDINATE HEIGHT OF ALL DEVICES AT ALL CASEWORK LOCATIONS TO AVOID CONFLICTS. ALL OUTLETS SHALL BE ROUGHED-IN IN ACCORDANCE WITH ARCHITECTURAL CASEWORK ELEVATIONS. EXACT LOCATION OF ALL OUTLETS SHALL BE AS DIRECTED BY THE CONTRACTOR.
23. COORDINATE EXACT LOCATION OF ALL DEVICES IN THE CEILING WITH THE ARCHITECTURAL, HVAC, LIGHTING, AND FIRE PROTECTION REFLECTED CEILING PLANS.
24. THE CONTRACTOR SHALL PROVIDE EQUIPMENT GROUNDING CONDUCTORS IN ALL FEEDERS TO GROUND BUS IN PANELBOARDS AND IN ALL CIRCUITS TO EQUIPMENT AND RECEPTABLES. SEE SPECIFICATIONS.
25. ALL EXTERIOR UNDERGROUND CIRCUITS SHALL BE INSTALLED WITH TOP OF CONDUIT OR CONCRETE ENCASMENT AT A MINIMUM OF 18" BELOW FINISHED GRADE, UNLESS NOTED OTHERWISE.
26. LIQUIDTIGHT FLEXIBLE METAL CONDUIT (FMCS) SHALL BE USED FOR FUTURE WHIPS TO MOTORS. FLEXIBLE CONDUIT TO MOTORS SHALL BE A MINIMUM OF 3/4" AND SHALL NOT EXCEED 24" IN LENGTH.
27. ALL ELECTRICAL SYSTEMS WITHIN 6'-0" OF A WATER SOURCE SHALL BE OF THE GFI PROTECTED.
28. FIRE ALARM SYSTEM LAYOUT IS FOR BID PURPOSES ONLY. SYSTEM SHALL BE INSTALLED AND CONNECTED IN ACCORDANCE WITH ALL WIRING DIAGRAMS OBTAINED FROM MANUFACTURER. DEVICE QUANTITY AND LOCATION SHALL PROVIDE COVERAGE IN ALL AREAS PER NFPA 72. PROVIDE DEVICES AS REQUIRED WHENEVER SHOWN ON THE DRAWINGS OR NOT.
29. PROVIDE 5' EXCESS CABLE COILED ABOVE THE CEILING FOR EACH DATA DROP.
30. LABEL CABLES BOTH AT THE RACK AND AT THE INDIVIDUAL OUTLET.
31. INSTALL STEEL SLEEVES BETWEEN STACKED TELECOMMUNICATIONS ROOMS. SLEEVES SHALL EXTEND 4" AFF AND 4" BELOW THE DECK. A MINIMUM OF TWO (2) SLEEVES ON THREE (3) WALLS IS REQUIRED. ALL SLEEVES MUST BE FIRE CLASSED TO MEET THE REQUIREMENTS OF THE FIRE TREATED PLYWOOD WILL BEGIN AT 4" AFF AND END AT 4" AFF. SLEEVES SHALL BE INSTALLED ON ALL WALLS AND SHALL BE PROTECTED BY THE CONTRACTOR. INSTALL GROUND BUSHINGS ON ALL SLEEVES AND PROPERLY GROUND TO THE GROUNDING BAR.
32. TELECOMMUNICATIONS ROOMS SHALL BE PROVIDED WITH 1/2" RIGID PVC CONDUIT (6" RISER CONDUITS (4 INCH MINIMUM DIAMETER) WITH PULL STRINGS AND APPROPRIATE JUNCTION PULL BOXES CONNECTING ALL TELECOMMUNICATIONS ROOMS.
33. FIRE TREATED PLYWOOD, 3/4 INCH THICK, MUST BE MECHANICALLY FASTENED TO ALL WALLS OF EACH COMMUNICATIONS ROOM. THE FIRE TREATED PLYWOOD WILL BEGIN AT 4" AFF AND END AT 4" AFF. THE ROOM WALLS WILL BE FINISHED WITH DRYWALL, COMPLETELY TAPED, SANDED, AND PAINTED (OR CONCRETE BLOCK (PAINTED) OR CONCRETE TOWER WALL).
34. CABLE TRAY WILL FOLLOW THE ENTIRE PERIMETER INSIDE A TELECOMMUNICATIONS ROOM AT 8" AFF. MAINTAIN A 1" CLEARANCE FROM EACH WALL. SUPPORT WITH TRAPEZE MADE UP OF ALL THREAD AND UNISTRUT. UNVERSAI 12" CABLE TRAY WILL BE INSTALLED AT THE TOP OF THE COMMUNICATIONS RACKS SPANNING THE WIDTH OF THE ROOM. CONDUIT OUTLETS WILL BE INSTALLED ON ALL CABLE TRAYS WHERE CABLES EXIT THE TRAY TO A LOWER ELEVATION.
35. TELECOMMUNICATIONS ROOMS SHALL HAVE A GROUNDING BAR, WHICH MEASURES 2" LONG BY 4" WIDE BY 1/4" THICK WITH PRE-DRILLED 3/8" HOLES. THE GROUND BAR SHALL BE CONNECTED TO THE MAIN BUILDING GROUND USING # 2 OR # 4 AWG COPPER WIRE WITH A MAXIMUM RESISTANCE OF 0.5 OHMS OR LESS. NEC REQUIREMENTS SHALL BE FOLLOWED.
36. ALL CABLE TRAY WITHIN THE TELECOMMUNICATIONS ROOM SHALL BE GROUND TO THE MAIN BUILDING GROUNDING SYSTEM WITH A WIRE NOT SMALLER THAN # 2 AWG COPPER. GROUND WIRE AND CLAMPS WILL BE INSTALLED ON THE EXTENDED END OF THE CABLE TRAY.
37. NO MORE THAN AN EQUIVALENT OF 20 DEGREES OF BEND, INCLUDING OFFSETS, IS ALLOWED IN A CONDUIT RUN BETWEEN JUNCTION BOXES OR PULL BOXES.
38. ABSOLUTELY NO "LBS" ARE ALLOWED IN ANY COMMUNICATIONS CONDUIT INSTALLATION.
39. CONDUIT ENDS AT A CABLE TRAY WILL HAVE PLASTIC BUSHINGS AND BE WIRE BONDED TO THE TRAY.
40. CONDUIT THAT TERMINATES IN THE TELECOMMUNICATIONS ROOM MUST HAVE PLASTIC BUSHINGS AND BE WIRE BONDED TO THE GROUND BAR LOCATED IN THE ROOM.
41. ALL COMMUNICATIONS OUTLETS SHALL BE FED WITH CONDUIT AND PULL STRING, WITH AN ABSOLUTE MINIMUM NUMBER OF BENDS FROM THE OUTLET TO THE CABLE TRAY, OR THROUGH DIRECTLY TO THE TELECOMMUNICATIONS ROOM. THE NUMBER OF BENDS MUST BE LIMITED TO A MAXIMUM OF 10 BENDS (INCLUDING OFFSETS) OR 100 FEET OF CONDUIT RUN.
42. PREPACKAGED INTENSEMENT MATERIALS ARE THE PREFERRED MATERIAL FOR FIREPROOFING FOR PENETRATIONS THROUGH WALLS AND CEILING. PENETRATIONS THROUGH WALLS AND CEILING OR ON CONDUIT CONTRACTORS WHO USE THIS METHOD WILL BE REQUIRED TO REPLACE ALL CABLES AFFECTED.


**NOTE:**

THE SYMBOLS LISTED ON THIS SHEET MAY NOT ALL BE USED ON THIS SET OF CONTRACT DRAWINGS, HOWEVER, WHEREVER A SYMBOL IS USED THE ITEM SHALL BE FURNISHED AND INSTALLED.



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609-271-0340

FOR:

**EStill County Board of Education**  
**1000 South Irvine Road, Irvine, KY 40336**

**ELECTRICAL LEGEND AND GENERAL NOTES**

**SOUTH IRVINE ARP ESSER EARLY CHILDHOOD CENTER RENOVATIONS**

**BG# 22-176**

Project No: 2146  
 Drawn By: RG  
 Rev'd By: WT

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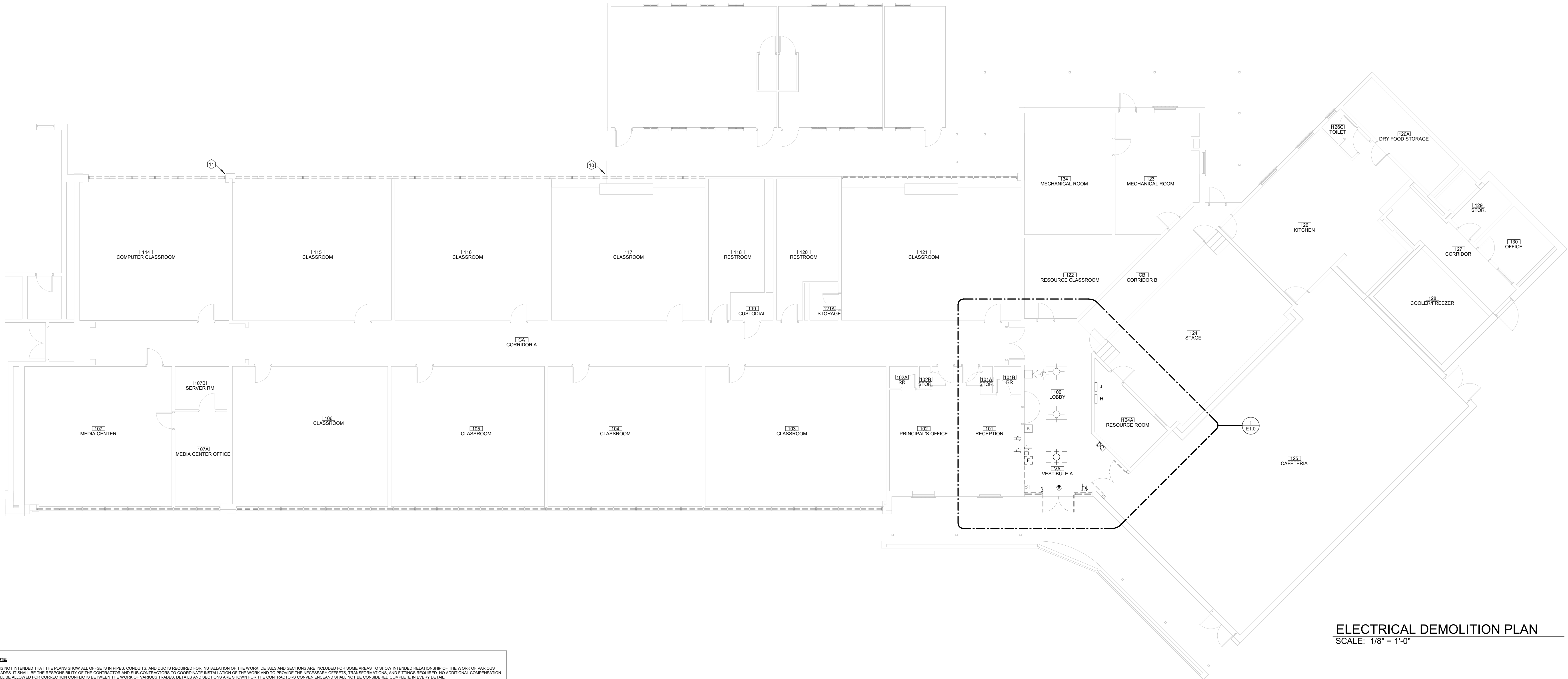
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**ELECTRICAL LEGEND AND  
GENERAL NOTES**

**DATE ISSUED:  
02/10/2022**

[illegible]

**1 ENLARGED ELECTRICAL DEMOLITION PLAN**  
SCALE: 1/4" = 1'-0"



NOTES:

IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DUCTS REQUIRED FOR INSTALLATION OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIP OF THE WORK OF VARIOUS TRADES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED; NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTION CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES. DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTORS CONVENIENCE AND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.

**GENERAL NOTE:**

ALL ELECTRICAL CIRCUITS WHICH ARE DISCONNECTED OR OTHERWISE NO LONGER IN USE DUE TO DEMOLITION REQUIREMENTS SHALL BE REMOVED BACK TO SOURCE AND BREAKER MARKED AS "SPARE." ALL ABANDONED CONDUIT NOT REQUIRED SHALL BE REMOVED AND DEMOLISHED.

**CODED NOTES:**

1 THIS LIGHT FIXTURE IS TO BE REMOVED. CIRCUIT WILL BE REUSED FOR NEW LIGHT. SEE  
NOTE 1 ON SHEET E-1.

2 EXISTING FIRE ALARM PULL STATION IS TO BE REMOVED AND RELOCATED PER NOTE 1 ON  
SHEET E-3.

3 TWO-GANG LIGHT SWITCH IS TO BE REMOVED.

4 MOTOR SWITCH IS TO BE DISCONNECTED AND REMOVED. RELOCATE CIRCUITING BACK  
TO SOURCE.

5 RECEPTACLE IS TO BE DISCONNECTED AND REMOVED.

6 EXISTING RECEPTABLES ARE TO BE DISCONNECTED AND REMOVED. CIRCUIT IS TO REMAIN  
AND MAINTAIN CONNECTION WITH DOWNSTREAM DEVICES.

7 EXISTING AUDIOVISUAL BOX IS TO BE DISCONNECTED AND REMOVED. RELOCATE PER NOTE  
2 ON SHEET E-3.

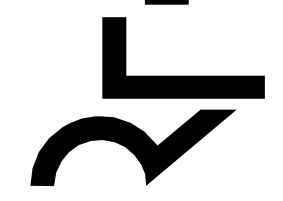
8 EXISTING DIGITAL CLOCK IS TO BE DISCONNECTED AND REMOVED. RELOCATE PER NOTE 3  
ON SHEET E-3.

9 EXISTING KEYPAD IS TO REMAIN.

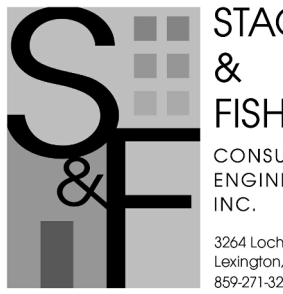
10 EXISTING CONDUIT RUNNING FROM MAIN BUILDING TO SECONDARY BUILDING IS TO REMAIN  
AND MAINTAIN CONNECTION TO SECONDARY BUILDING.

11 EXISTING CONDUITS (2) ARE TO REMAIN. SERVICE MUST BE MAINTAINED DURING  
DEMOLITION PHASE.

12 ELECTRICAL SWITCH IS TO BE DISCONNECTED AND REMOVED.



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ELECTRICAL DEMOLITION PLAN

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FOR:

ESTILL COUNTY BOARD OF EDUCATION  
1000 SOUTH IRVINE ROAD, IRVINE, KY 40336

BG#	22-176
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Project No: 2146  
 Drawn By: Author  
 Rev'd By: Checker

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DATE ISSUED:  
02/10/2022

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LIGHTING SEQUENCE OF OPERATIONS SCHEDULE		
ROOM NUMBER	ROOM NAME	NOTE NUMBER
100	LOBBY	
101	RECEPTION	
101A	STOR.	
101B	RR	
102	PRINCIPAL'S OFFICE	
102A	RR	
102B	STOR.	
103	CLASSROOM	
104	CLASSROOM	
105	CLASSROOM	
106	CLASSROOM	
107	MEDIA CENTER	
107A	MEDIA CENTER OFFICE	
107B	SERVER RM	
111	COMPUTER CLASSROOM	
114	COMPUTER CLASSROOM	
116	CLASSROOM	
117	CLASSROOM	
118	RESTROOM	
119	CUSTODIAL	
120	RESTROOM	
121	CLASSROOM	
121A	STORAGE	
122	RESOURCE CLASSROOM	
123	MECHANICAL ROOM	
124	STAGE	
124A	RESOURCE ROOM	
125	CAFETERIA	
126	KITCHEN	
126A	DRY FOOD STORAGE	
126B	TOILET ENTRANCE	
126C	TOILET	
127	CORRIDOR	
128	Cooler-FREEZER	
129	STOR.	
130	OFFICE	
134	MECHANICAL ROOM	
CA	CORRIDOR A	
CB	CORRIDOR B	
VA	VESTIBULE A	

**LIGHTING SEQUENCE OF OPERATIONS NOTES:**

1. CORRIDORS/VESTIBULES: LIGHTING SHALL BE CONTROLLED VIA TIME SCHEDULE WITH LOCAL OVERRIDE SWITCHES.

2. **LARGE RESTROOMS:** LIGHTING SHALL BE CONTROLLED VIA TIME SCHEDULE WITH LIGHTS BEING ON DURING BUILDING OPERATIONS AND CONTROLLED BY OCCUPANCY SENSOR AFTER HOURS WITH LOCAL OVERRIDE SWITCHES.

3. SINGLE RESTROOMS/JANITOR/CUSTODIAL CLOSET: LIGHTING SHALL BE CONTROLLED VIA OCCUPANCY SENSOR SWITCH.

4. **STORAGE ROOMS:** LIGHTING SHALL BE CONTROLLED VIA OCCUPANCY SENSOR

5. MECHANICAL/ELECTRICAL/TELECOMMUNICATION ROOMS: LIGHTING SHALL BE CONTROL BY A WALL SWITCH.

**6. TYPICAL OFFICE:** LIGHTING SHALL BE DIMMED. ENTRY STATION SHALL PROVIDE ON/OFF/DIM UP/DIM DOWN/PRESET, A VACANCY SENSOR SHALL SWITCH LIGHTING OFF AFTER 15 MINUTES IF OCCUPANT DOES NOT MANUALLY SWITCH OFF THE LIGHTING. INDICATED (SW) RECEPTACLES SHALL BE CONTROLLED ON/OFF BY THE LIGHTING CONTROL SCHEDULE. THE VACANCY SENSOR SHALL PROVIDE THE BMS WITH OCCUPANCY STATUS VIA AUXILIARY CONTACTS.

7. **TYPICAL CONFERENCE/MEETING ROOM:** LIGHTING SHALL BE DIMMED. ENTRY STATION SHALL PROVIDE ON/OFF/DIM UP/DIM DOWN/PRESET. A VACANCY SENSOR SHALL SWITCH LIGHTING OFF AFTER 15 MINUTES IF OCCUPANT DOES NOT MANUALLY SWITCH OFF THE LIGHTING. THE VACANCY SENSOR SHALL PROVIDE THE BMS WITH OCCUPANCY STATUS VIA AUXILIARY CONTACTS.

8. **TYPICAL CLASSROOM:** LIGHTING SHALL BE DIMMED. ENTRY STATION SHALL PROVIDE ON/OFF/DIM UP/DIM DOWN/PRESET. A VACANCY SENSOR SHALL SWITCH LIGHTING OFF AFTER 15 MINUTES IF OCCUPANT DOES NOT MANUALLY SWITCH OFF THE LIGHTING. THE VACANCY SENSOR SHALL PROVIDE THE BMS WITH OCCUPANCY STATUS VIA AUXILIARY CONTACTS.

9. **TYPICAL COMPUTER CLASSROOM:** LIGHTING SHALL BE DIMMED. ENTRY STATION SHALL PROVIDE ON/OFF/DIM UP/DIM DOWN/PRESET. A VACANCY SENSOR SHALL SWITCH LIGHTING OFF AFTER 15 MINUTES IF OCCUPANT DOES NOT MANUALLY SWITCH OFF THE LIGHTING. INDICATED (SW) RECEPTACLE SHALL BE CONTROLLED ON/OFF BY THE LIGHTING CONTROL SCHEDULE. THE VACANCY SENSOR SHALL PROVIDE THE BMS WITH OCCUPANCY STATUS VIA AUXILIARY CONTACTS.

10. **STAIRS:** LIGHTING SHALL REMAIN ON AT ALL TIMES. LIGHTING SHALL BE DIMMED TO 50% LEVEL UNTIL OCCUPANCY SENSOR SENSES OCCUPANCY AT WHICH TIME LIGHT LEVEL SHALL BE BROUGHT TO 100%. LIGHTS SHALL RETURN TO 50% LEVEL FIVE MINUTES AFTER LAST OCCUPANCY WAS SENSED.

## 11. DAY LIGHTING CONTROL BY PHOTOSENSOR

## 12. ROOM PARTITION SENSORS TO COMBINE CONTROL OF MULTIPLE ROOMS WHEN PARTITION IS OPEN

### GENERAL NOTES

- IN ALL CLASSROOMS, OFFICES, BREAK ROOMS, AND ADMINISTRATIVE SPACES, ENTRY CONTROL STATIONS SHALL TURN LIGHTS ON TO 80% OF FULL OUTPUT. DIM UP CONTROL AND/OR PRESETS SHALL ALLOW LIGHTS TO BE BROUGHT TO FULL OUTPUT.

\* WHERE EMERGENCY TRANSFER RELAYS ARE SHOWN, CONNECTED LIGHT FIXTURES SHALL BE CONTROLLED ALONG WITH THE NORMAL FIXTURES IN THE SAME ZONE OF CONTROL. PROVIDE EMERGENCY, NORMAL, AND CONTROL CIRCUITS TO EMERGENCY TRANSFER RELAY PER THE MANUFACTURER'S DIRECTIONS.

• WHERE DIMMING IS INDICATED TO BE PROVIDED, ADDITIONAL DIMMING CONDUCTORS MAY BE REQUIRED FROM LIGHTING CONTROLLER TO FIXTURES. COORDINATE WITH LIGHTING CONTROL SYSTEM REQUIREMENTS AND PROVIDE AS REQUIRED. PROVIDE OCCUPANCY/VACANCY SENSORS, DIMMING BALLASTS/DRIVERS, CONTROLLERS, CONTROL STATIONS, ETC. AS REQUIRED FOR OPERATION AS DESCRIBED BY THE SEQUENCE OF OPERATION.

**EXTERIOR LIGHTS:**

• POLE-MOUNTED AND BUILDING-MOUNTED LIGHT FIXTURES, INCLUDING EMERGENCY EGRESS FIXTURES ARE TO BE CONTROLLED BY LIGHTING CONTACTORS. CONTACTORS SHALL BE CONTROLLED BY THE HVAC CONTROL SYSTEM. PROVIDE CONTACTOR WITH AN INTEGRAL MANUAL SWITCH TO ALLOW MANUAL CONTROL OF CIRCUIT FOR DIAGNOSTIC PURPOSES. CONTACTORS SHALL BE LOCATED ADJACENT TO PANELBOARDS. EMERGENCY EGRESS FIXTURES SHALL BE CONTROLLED WITH EMERGENCY TRANSFER RELAY(S) SUCH THAT FIXTURES WILL ENERGIZE WHEN GENERATOR RUNS DURING A POWER OUTAGE.

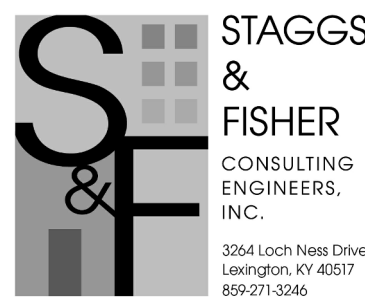
LIGHT FIXTURE SCHEDULE											
LF-#	FIXTURE DESCRIPTION	VOLTAGE	WATTAGE	LAMP	LUMEN OUTPUT	COLOR TEMPERATURE	COLOR RENDERING INDEX (CRI)	DRIVER	MANUFACTURER	MODEL	EQUIVALENT MANUFACTURERS
LF-1	2' x 4' RECESSED TROFFER	277 V	0	LED							
X-3	UNIVERSAL, MOUNTED STENCIL SINGLE FACE SELF DIAGNOSTIC LED EXIT SIGN WITH DIE-CAST ALUMINUM HOUSING, SINGLE CAST ALUMINUM HINGED FACEPLATE PER PLANS, WHITE FINISHED HOUSING, LOW ENERGY CONSUMPTION LONG-LIFE LED LAMPS, UL LABEL, FIVE YEAR FIXTURE WARRANTY		1 W	LED				LED DRIVER	LITHONIA	LOC W 1 G ELN ELA W51	

ROOM SCHEDULE	
ROOM NUMBER	ROOM NAME
100	LOBBY
101	RECEPTION
101A	STORAGE
101B	RR
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119	CLASSROOM
120	RESTROOM
121	STORAGE
121A	STORAGE
122	RESOURCE CLASSROOM
123	MEDIA/NUCLEUS ROOM
124	STAGE
124A	RESOURCE ROOM
125	CATERING
126	KITCHEN
126A	FOOD STORAGE
126B	TOL. ENTRANCE
126C	TOL.
127	CORRIDOR
128	COPIER/REFREEZER
129	STOR.
130	OFFICE
131	MEDIA/NUCLEUS ROOM
CA	CORRIDOR A
CB	CORRIDOR B
VA	VESTIBULE A

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EERS,

LIGHTING PLAN & FIXTURE SCHEDULE

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FOR:  
ESTILL COUNTY BOARD OF EDUCATION  
1000 SOUTH IRVINE ROAD, IRVINE, KY 40336

BG# 22-176

Project No:	2146
Drawn By:	RG
Rev'd By:	WT

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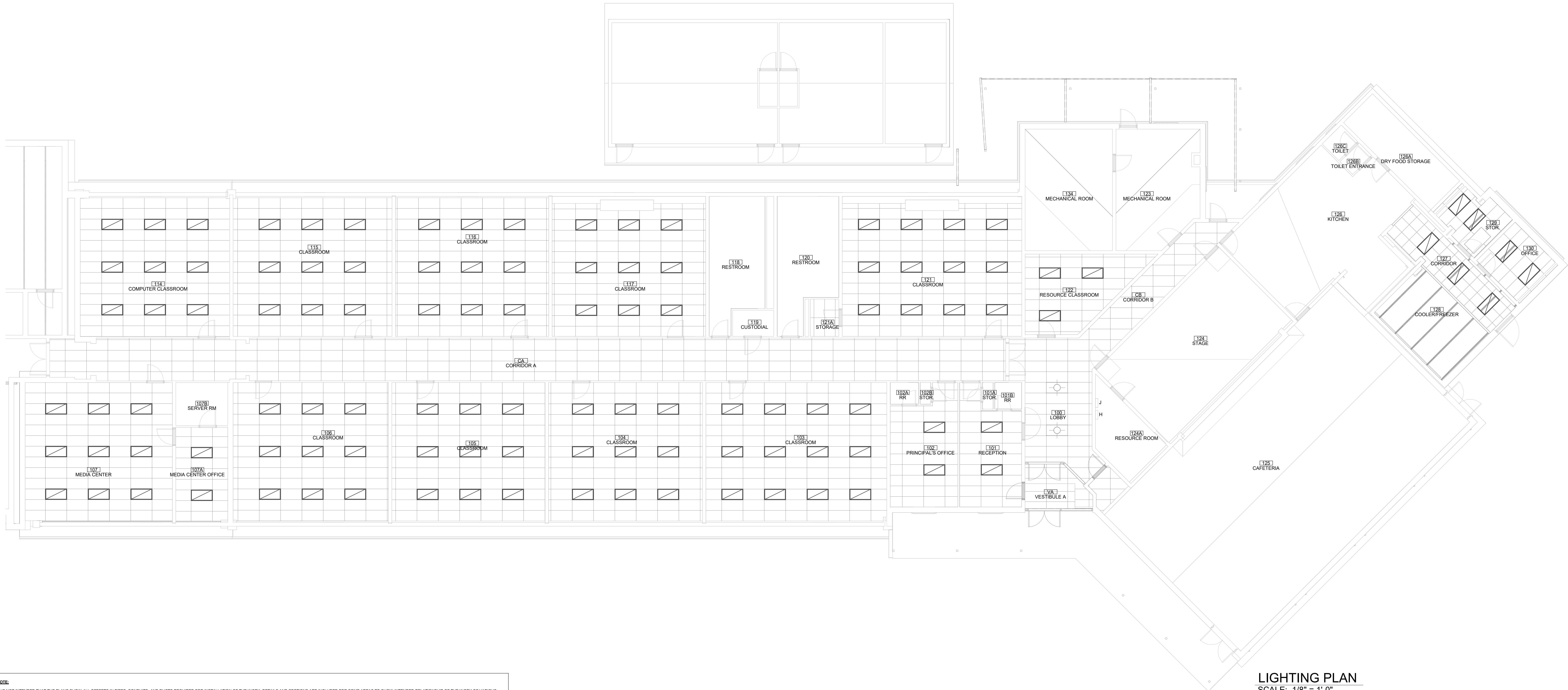
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LIGHTING PLAN & FIXTURE  
SCHEDULE  
DATE ISSUED:  
02/10/2022

**NOTE:**

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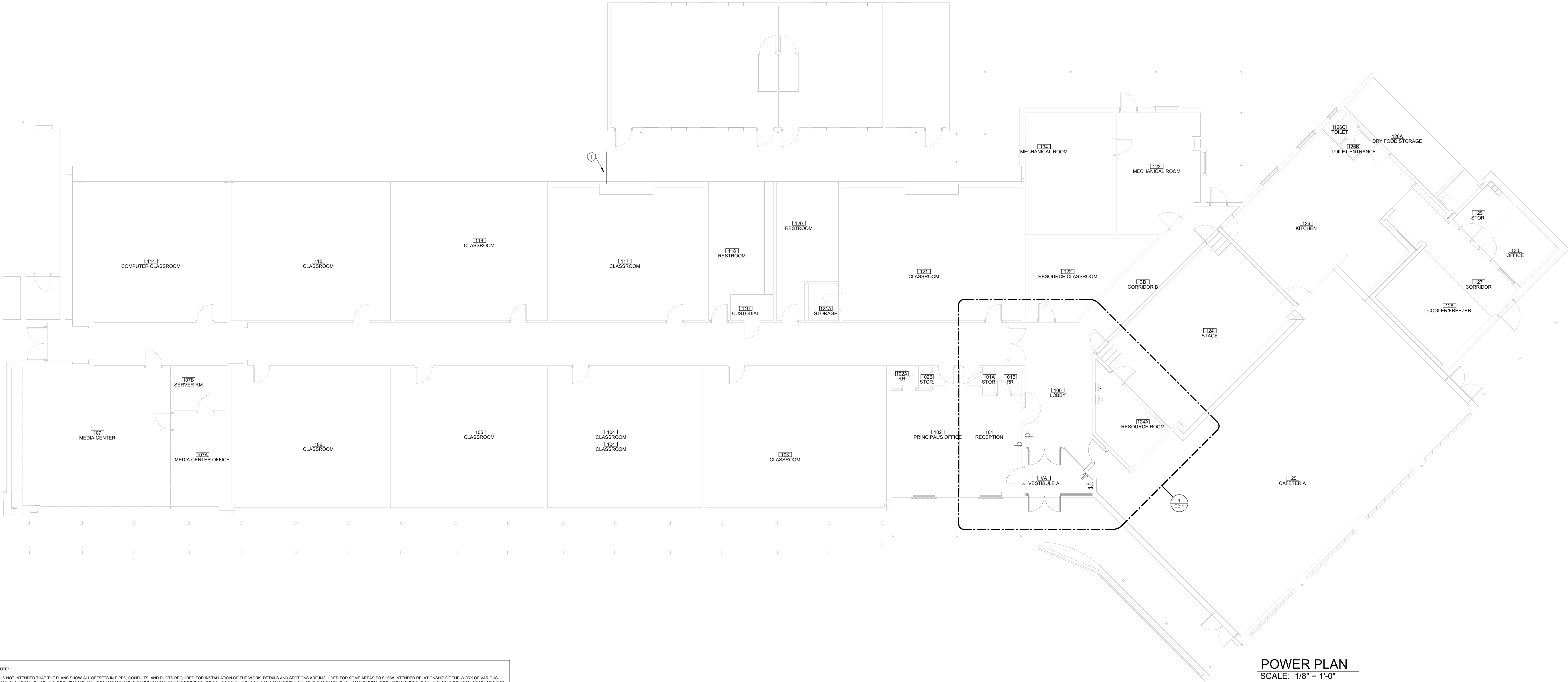


## LIGHTING PLAN


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



IT IS NOT INTENDED THAT THE PLANS SHOW ALL OFFSETS IN PIPES, CONDUITS, AND DUCTS REQUIRED FOR INSTALLATION OF THE WORK. DETAILS AND SECTIONS ARE INCLUDED FOR SOME AREAS TO SHOW INTENDED RELATIONSHIP OF THE WORK OF VARIOUS TRADES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTORS TO COORDINATE INSTALLATION OF THE WORK AND TO PROVIDE THE NECESSARY OFFSETS, TRANSFORMATIONS, AND FITTINGS REQUIRED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CORRECTION CONFLICTS BETWEEN THE WORK OF VARIOUS TRADES. DETAILS AND SECTIONS ARE SHOWN FOR THE CONTRACTORS CONVENIENCE AND SHALL NOT BE CONSIDERED COMPLETE IN EVERY DETAIL.



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



**STAGGS  
&  
FISHER**  
CONSULTING  
ENGINEERS,  
INC.

3254 Loch Ness Drive  
Lexington, KY 40517  
859-271-3346

POWER PLAN

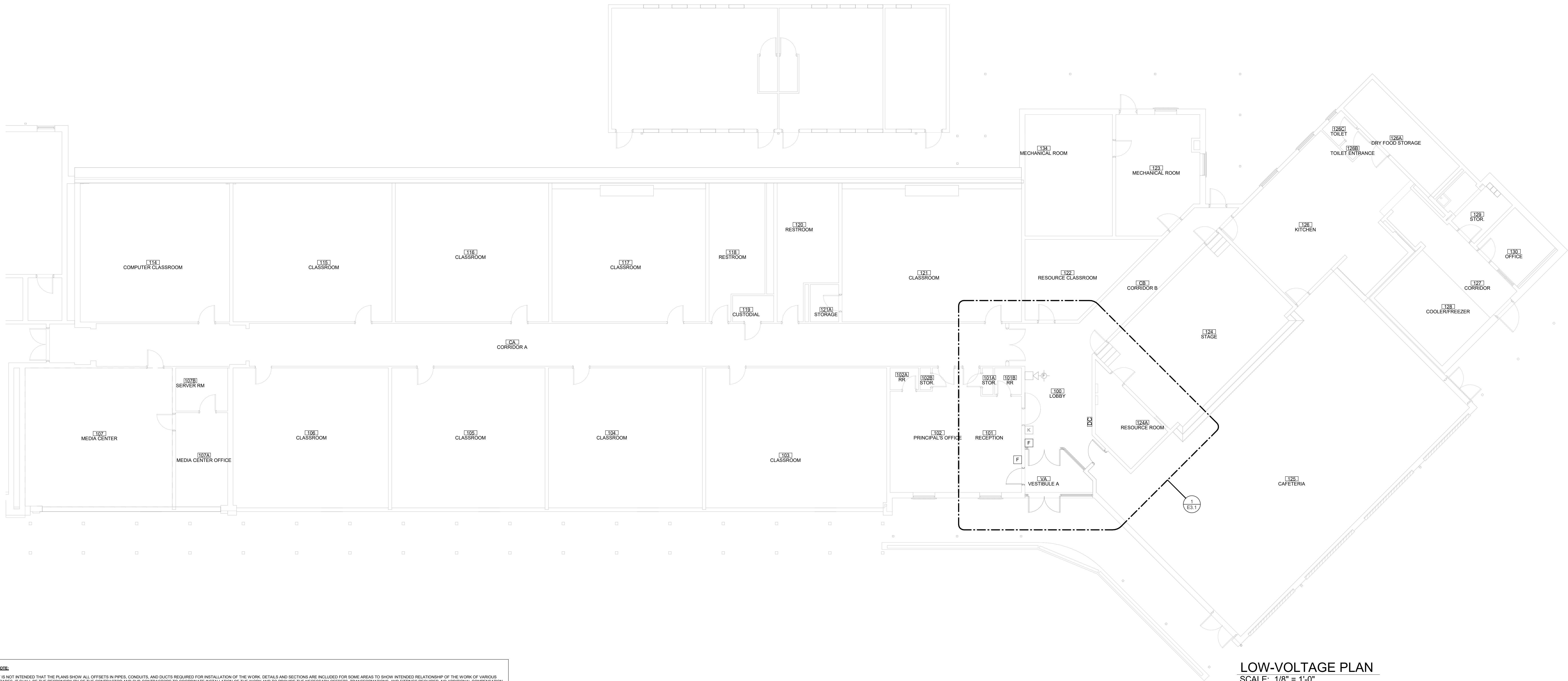
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FOR:  
ESTILL COUNTY BOARD OF EDUCATION  
1000 SOUTH IRVINE ROAD, IRVINE, KY 40336

BG#		22-176	
Project No:		2146	
Drawn By:		RG	
Rev'd By:		WT	
SHEET RELEASE			
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SD SUBMITTAL			
E2.1			
POWER PLAN			
DATE ISSUED:			
02/10/2022			

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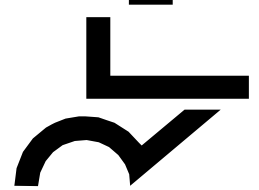
1 ENLARGED LOW-VOLTAGE PLAN  
SCALE: 1/4" = 1'-0"



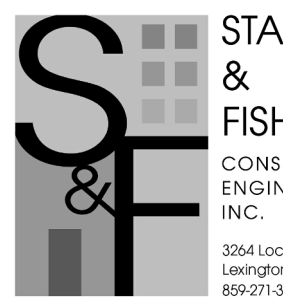
# LOW-VOLTAGE PLAN

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

ROOM SCHEDULE	
ROOM NUMBER	ROOM NAME
100	LOBBY
101	RECEPTION
101A	STOR
102	RR
102B	PRINCIPAL'S OFFICE
103	RR
103B	STOR
104	CLASSROOM
104A	CLASSROOM
105	CLASSROOM
107	MEDIA CENTER
107A	MEDIA CENTER OFFICE
108	SERVICES
110	COMPUTER CLASSROOM
115	CLASSROOM
116	CLASSROOM
117	CLASSROOM
118	RESTROOM
119	CUSTODIAL
120	RESTROOM
121	CLASSROOM
121A	STORAGE
122	RESOURCE CLASSROOM
123	MEDICAL ROOM
124	STAGE
124A	RESOURCE ROOM
125	CAPITOL
126	KITCHEN
126A	FOOD STORAGE
126B	TOILET
126C	TOILET
127	CORRIDOR
128	COOL FREEZER
130	STOR
134	OFFICE
138	MEDICAL ROOM
CA	CORRIDOR A
CB	CORRIDOR B
VB	VESTIBULE A



NOT FOR  
CONSTRUCTION



LOW-VOLTAGE PLAN

---

SOUTH IRVINE ARP ESSER EARLY CHILDHOOD CENTER RENOVATIONS

FOR:

ESTILL COUNTY BOARD OF EDUCATION  
1000 SOUTH IRVINE ROAD, IRVINE, KY 40336

BG#	22-176
-----	--------

Project No:	2146
Drawn By:	RG
Rev'd By:	WT

SHEET RELEASE

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### E3.1

LOW-VOLTAGE PLAN

DATE ISSUED:  
02/10/2022

**NOTE:**

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## Crime Prevention Through Environmental Design CPTED Principles Checklist for Kentucky Public Schools

**KRS 158.447, Required review of Crime Prevention Through Environmental Design (CPTED) principles prior to school construction or renovation.**

The Kentucky Department of Education shall require a local board of education to review CPTED principles when constructing a new school building or when renovating an existing school building. Effective: June 25, 2013

Keeping Kentucky's schools as safe as possible begins with prevention. As such, when planning to build a new school or renovate an existing school building, a critical level of security can be provided when specific principles and guidelines are considered. CPTED standards are designed to encourage review and consideration of best practices in physical plant safety and security.

Any effort local school officials can make to enhance the safety of children and school employees must be considered as being of paramount importance.

Listed below are specific topics for school officials and local boards of education, in cooperation with their design professionals, to consider when beginning the planning process for new construction:

**District Name:** Estill County      **District Code:** 161  
**Facility Name:** South Irvine Early Childhood Center  
**Project Name:** South Irvine ARP ESSER Early Childhood Center Renovations  
**BG Number:** 22-176

### 1. What risks and opportunities do students encounter between home and school?

	Yes	No	Remarks
Are crosswalk locations hazardous?		X	
Can physical surveillance of the campus be improved?		X	

### 2. What risks and opportunities are posed on the school property and areas directly adjoining school property?

	Yes	No	Remarks
Traffic Related		X	
Are student drop-off areas separated from school buses and other forms of transportation?	X		
Are parking lots separate for staff, students, and visitors with appropriate signage?		X	



Is adequate signage provided to direct visitors to the primary entrance of the building?	X		
Is the parking lot positioned in areas adequate for surveillance (physical and electronic)?	X		
Are walkways positioned for adequate surveillance from within the building?	X		
Is adequate external lighting provided?	X		
During renovations, consider surrounding hazards	X		
Is access to school property controlled by fencing, walls, signs (territorial, directional, and regulatory)?		X	
Do solid walls, fences, trees, and hedges block surveillance or attract graffiti? (3/7 rule – bushes trimmed 3 feet or shorter, trees cut 7 feet high)	.	X	
Are possible evacuation sites available? Do they have telephones, bathrooms, heat, securable areas?		X	

**3. Can the office staff observe approaching visitors before they reach the school entry?**

	Yes	No	Remarks
Is the office located adjacent to the main entry?	X		
Does anything block the view? (Sculpture, landscaping features)		X	
Do windows allow natural surveillance of approaching visitors?	X		
Does the office layout allow staff to see approaching visitors from normal working positions?	X		
If poorly located, can new locations for the office be identified and the office moved?			NA.

**4. Do staff members have the physical ability to stop visitors from entering?**

	Yes	No	Remarks
Is there an airlock or sally port vestibule?	X		Part of Project
Is it difficult for staff members to lock entry doors in an emergency?		X	



Can staff use an emergency electronic lock button?		X	
Do staff members use keys? Are they required to go outside the room in order to lock the door?		X	
Is the primary entrance secured, monitored and identified with appropriate signage?	X		
Do counters or windows protect office staff?	X		
If threatened, can office staff retreat to safer locations?	X		
Do staff members have panic button alarms?		X	
Can intruders gain access any other way than through the main entry?		X	
Are all exterior doors numbered?	X		
Can those secondary entries be locked, staffed, and otherwise controlled?	X		
Is an alarm system in place? What triggers the alarm and what happens then?		X	

5. How well can people see what is going on inside the school?

	Yes	No	Remarks
Can office staff and others see activity in immediately adjacent areas, as well as up and down hallways? Can they see over the heads of crowds using mirrors, cameras, raised areas?	X		
Do blind corners, niches, unlocked and unattended rooms block surveillance?		X	
Can access to hidden areas be denied? Can those areas be locked off?	X		
Would convex mirrors help? If yes, where?		X	
Can internal windows be uncovered, or blinds be opened, to improve surveillance?	X		
Can first responders see what is going on in the building?	X		

6. Do staff members have immediate lockdown capability in classrooms and other locations?

	Yes	No	Remarks
Can rooms be used as safety areas in emergencies? If yes, which ones?	X		

Is it difficult to lock each room in an emergency?		X	
Is a key required to lock the classroom door?		X	
Does a person have to step into the hallway to lock the door?		X	
Will classroom doors lock automatically when closed?		X	
Is there a two-way intercom or telephone in each room?	X		
Are there secondary emergency exits available from each room?		X	

7. Are there identifiable or predictable trouble spots or high-risk locations? (These locations may have already been addressed in #1-6. This serves as a fail-safe measure, to see if any locations have been missed, and require more specific recommendations.)

	Yes	No	Remarks
Climbing hazards (trees, ladders, etc)		X	
School boundaries	X		
School grounds		X	
Playgrounds		X	
Driveways		X	
Bike racks			NA
Main entry area		X	
Secondary entryways		X	
Main office		X	
Hallways (specify which ones)		X	
Courtyards			NA
Classrooms		X	
Temporary classrooms		X	
Gymnasium			NA
Locker rooms, locker bays, locker halls			NA



Toilets		X	
Library		X	
Cafeteria		X	
Loading docks and dumpsters		X	
Custodial receiving and storage areas		X	
Boiler room		X	
Auditorium			NA
Art rooms			NA
Science labs			NA
Preschool or Head Start classrooms		X	
Music rooms			NA
Special education rooms			NA
Computer/technology rooms		X	
Family/Consumer science rooms			NA
Technology education rooms			NA
Agriculture classrooms/labs			NA
Time-out rooms			NA
Meeting or conference rooms			NA
Informal or formal gathering areas		X	
Roof		X	
Crawl spaces			NA
Surveillance equipment closet		X	
Key control	X		
Lighting problems indoors or out		X	

## 8. Security Technology

	Yes	No	Remarks
Are access control devices used?			Part of Renovation
Are electronic access control devices being used?			"
Do emergency workers have easy access when needed?	X		
Are surveillance cameras used?	X		
Is a monitoring station provided? Can they be viewed off-site?	X		
If yes, are cameras maintained, protected from vandals, functional, and of adequate quality?	X		

## 9. Miscellaneous

	Yes	No	Remarks
Is hallway lighting positioned perpendicular to the walls?	X		
Are stairwells lit adequately?			NA
Is appropriate directional signage provided for other areas than the primary entrance (gym, theatre, stadium, etc)?	X		
Are emergency call stations or panic alarms provided?		X	

Notes:

Kentucky Licensed  
Design Professionals:

\_\_\_\_\_  
Signature

Date: \_\_\_\_\_

Kentucky Registered Engineer:

\_\_\_\_\_  
Signature

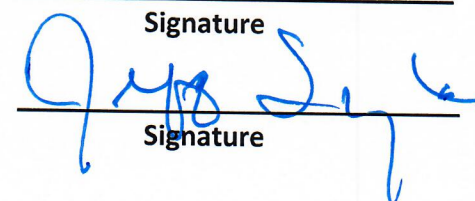
Date: \_\_\_\_\_

Kentucky Landscape Architect:

\_\_\_\_\_  
Signature

Date: \_\_\_\_\_

Superintendent or  
Board Designee:

  
Signature

Date: 11/25/2022