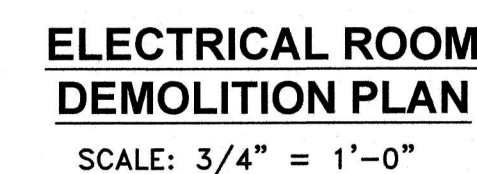
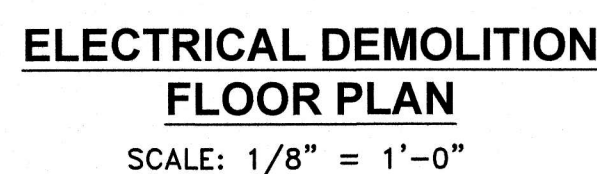




1. CONTRACTOR SHALL COMPLETELY REMOVE ALL ITEMS NOTED AS TO BE REMOVED / DEMOLISHED. REMOVAL OF INDICATED SYSTEMS INCLUDES INCIDENTAL ITEMS SUCH AS SUPPORTS, CLIPS, ANGEL IRONS, CONDUIT BOXES, EXPANSION BOLTS, HARDWARE, WIRE CHANNELS, BRACKETS, SUPPORTS AND ALL OTHER ITEMS ASSOCIATE WITH THE REMOVED SYSTEM. ALL HOLES / OPENINGS RESULTING FROM DEMOLITION ACTIVITIES SHALL BE GROUTED / SEALED AS REQUIRED.
2. THE CONTRACTOR SHALL PROTECT AND PRESERVE ALL STRUCTURES, FEATURES AND UTILITIES THAT ARE TO REMAIN IN PLACE.
3. SUBMIT THE LIST OF ALL REMOVED ITEMS TO THE OWNER, WHO RESERVES THE RIGHT TO RETAIN ANY OR ALL ITEMS REMOVED / DEMOLISHED AS DEEM NECESSARY. CONTRACTOR WILL BE RESPONSIBLE TO DELIVER ALL SELECTED ITEMS TO OWNER DESIGNATED PLACE AND DISPOSE ALL ITEMS NOT REQUIRED.
4. ALL EXISTING ELECTRICAL EQUIPMENT INCLUDING DISTRIBUTION PANELS, LIGHTING PANELS, EQUIPMENT DISCONNECTS, WIREWAYS, AND ASSOCIATED EQUIPMENT SHALL BE DEMOLISHED AS SHOWN. ALL EXISTING EXPOSED CONDUIT AND ALL EXISTING CABLES THAT WILL BE UNUSED FOLLOWING COMPLETION OF THIS PROJECT SHALL ALSO BE DEMOLISHED TO ITS SOURCE LOCATION. ALL BURIED CONDUIT THAT WILL BE UNUSED FOLLOWING COMPLETION OF THIS PROJECT SHALL BE ABANDONED IN PLACE.
5. CONTRACTOR SHALL DISCONNECT AND DEMOLISH ALL ASSOCIATED CONDUIT AND WIRING FOR ALL DEVICES OF EQUIPMENT TO BE DEMOLISHED BACK TO ITS SOURCE LOCATION. ALL EXISTING ELECTRICAL EQUIPMENT REMOVAL FOR INDICATED SYSTEMS INCLUDES INCIDENTAL ITEMS SUCH AS CONDUITS, SUPPORTS, CLIPS, ANGEL IRONS, CONDUIT BOXES, EXPANSION BOLTS, HARDWARE, WIRE CHANNELS, BRACKETS, SUPPORTS, PANELS, SWITCHES, STARTERS, RECEPTACLES, EQUIPMENT DISCONNECTS, WIREWAYS, CONTROL PANELS, AND ASSOCIATED EQUIPMENT SHALL BE DEMOLISHED AS SHOWN. ALL EXISTING CONDUIT AND ALL EXISTING WIRING THAT WILL BE UNUSED FOLLOWING COMPLETION OF THIS PROJECT SHALL BE DEMOLISHED TO ITS SOURCE LOCATION.
6. CONTRACTOR SHALL PRESERVE WIRING AND CONDUIT ASSOCIATED WITH EXISTING LOADS (TO REMAIN) FED BY EXISTING PANELS (TO BE DEMOLISHED). SEE SHEETS E5, E6, AND E7 FOR ADDITIONAL DETAILS. CONTRACTOR SHALL CUT ANY EXISTING CONDUIT ASSOCIATED WITH EXISTING LOADS TO REMAIN SO THAT A WIREWAY MAY BE FURNISHED AND INSTALLED, AND EXISTING LOADS EXTENDED WITH COMPATIBLE MEANS TO ENSURE FACILITY FUNCTIONALITY. CONTRACTOR IS RESPONSIBLE FOR TRACING ALL CIRCUITS TO REMAIN TO ENSURE ACCURATE AND COMPLETE ELECTRICAL LOAD RECORDS.
7. CONTRACTOR IS RESPONSIBLE FOR THE PRESERVATION AND/OR RELOCATION OF ELECTRICAL EQUIPMENT, WIRING, CONDUIT, AND ASSOCIATED INCIDENTAL MATERIALS THAT ARE TO REMAIN TO ENSURE FACILITY FUNCTIONALITY AND SYSTEM INTEGRITY.
8. ALL DEMOLITION AND RELOCATION OF NETWORK ACCESS AND SECURITY EQUIPMENT / PORTS IS TO BE COORDINATED WITH THE OWNER AND THE OWNER'S IT REPRESENTATIVE, BELLIA TECHNOLOGIES ((1(856)202-7664)).
9. CONTRACTOR SHALL COORDINATE WITH OWNER, OWNER'S IT REPRESENTATIVE, AND VERIZON COMMUNICATIONS, INC., FOR THE COMPLETE DEMOLITION OF THE EXISTING TELECOMMUNICATIONS EQUIPMENT LOCATED IN EXISTING CLOSET TO BE DEMOLISHED. CONTRACTOR SHALL CONFIRM WITH VERIZON AND OWNER THAT THE EQUIPMENT IS NO LONGER IN USE PRIOR TO DEMOLITION.
10. SEE ARCHITECTURAL, MECHANICAL, AND STRUCTURAL PLANS FOR ADDITIONAL DEMOLITION DETAILS. ARCHITECTURAL DEMOLITION LINES ARE LIGHTENED HERE FOR CLARITY.

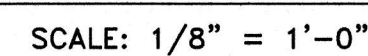


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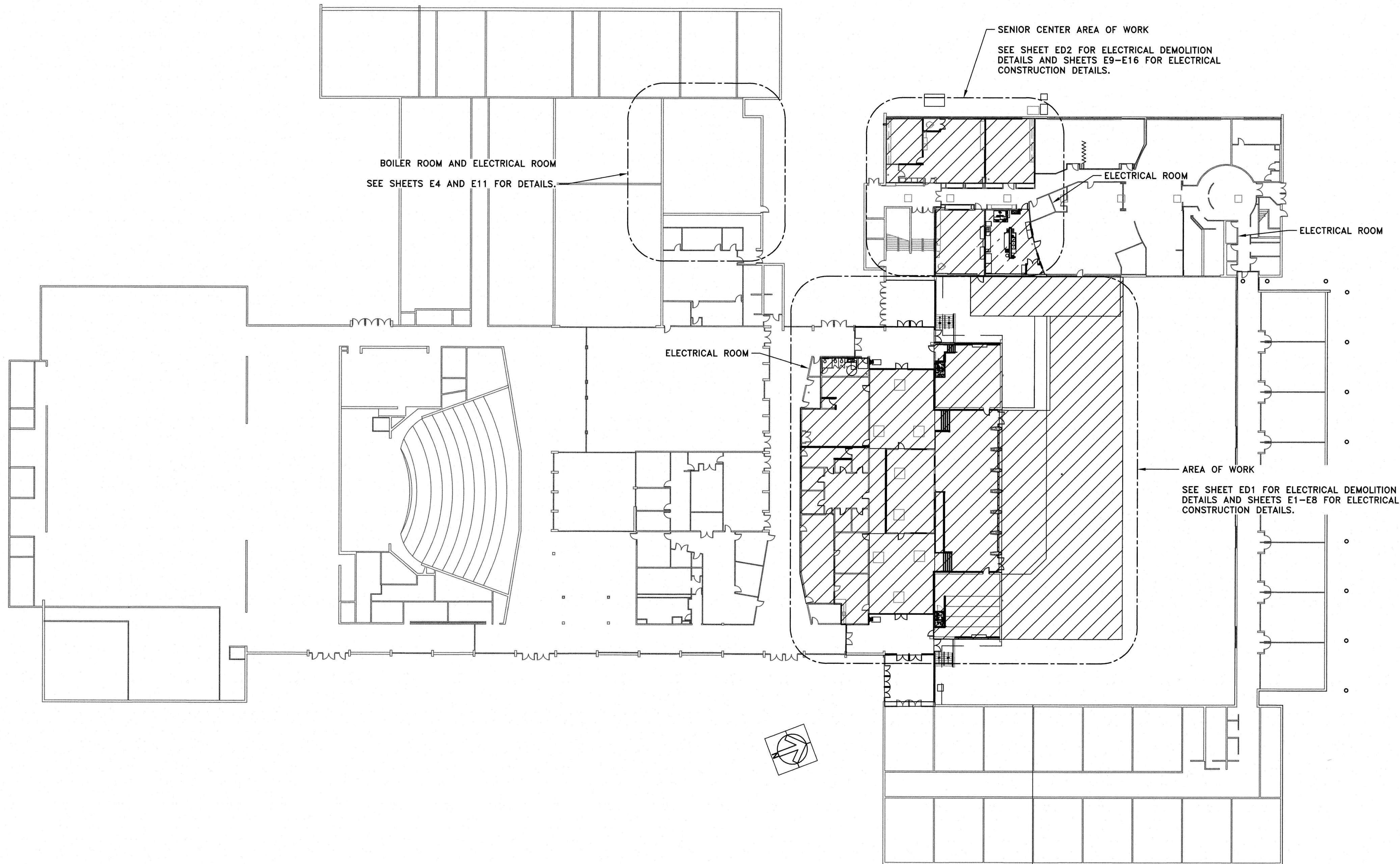
1. CONTRACTOR SHALL COMPLETELY REMOVE ALL ITEMS NOTED AS TO BE REMOVED / DEMOLISHED. REMOVAL OF INDICATED SYSTEMS INCLUDES INCIDENTAL ITEMS SUCH AS SUPPORTS, CLIPS, ANGEL IRONS, CONDUIT BOXES, EXPANSION BOLTS, HARDWARE, WIRE CHANNELS, BRACKETS, SUPPORTS AND ALL OTHER ITEMS ASSOCIATE WITH THE REMOVED SYSTEM. ALL HOLES / OPENINGS RESULTING FROM DEMOLITION ACTIVITIES SHALL BE GROUTED / SEALED AS REQUIRED.
2. THE CONTRACTOR SHALL PROTECT AND PRESERVE ALL STRUCTURES, FEATURES AND UTILITIES THAT ARE TO REMAIN IN PLACE.
3. SUBMIT THE LIST OF ALL REMOVED ITEMS TO THE OWNER, WHO RESERVES THE RIGHT TO RETAIN ANY OR ALL ITEMS REMOVED / DEMOLISHED AS DEEM NECESSARY. CONTRACTOR WILL BE RESPONSIBLE TO DELIVER ALL SELECTED ITEMS TO OWNER DESIGNATED PLACE AND DISPOSE ALL ITEMS NOT REQUIRED.
4. ALL EXISTING ELECTRICAL EQUIPMENT INCLUDING DISTRIBUTION PANELS, LIGHTING PANELS, EQUIPMENT DISCONNECTS, WIREWAYS, AND ASSOCIATED EQUIPMENT SHALL BE DEMOLISHED AS SHOWN. ALL EXISTING EXPOSED CONDUIT AND ALL EXISTING CABLES THAT WILL BE UNUSED FOLLOWING COMPLETION OF THIS PROJECT SHALL ALSO BE DEMOLISHED TO ITS SOURCE LOCATION. ALL BURIED CONDUIT THAT WILL BE UNUSED FOLLOWING COMPLETION OF THIS PROJECT SHALL BE ABANDONED IN PLACE.
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6. CONTRACTOR SHALL PRESERVE WIRING AND CONDUIT ASSOCIATED WITH EXISTING LOADS (TO REMAIN) FED BY EXISTING PANELS (TO BE DEMOLISHED). SEE SHEETS E14, E15, AND E16 FOR ADDITIONAL DETAILS. CONTRACTOR SHALL CUT ANY EXISTING CONDUIT ASSOCIATED WITH EXISTING LOADS TO REMAIN SO THAT A WIREWAY MAY BE FURNISHED AND INSTALLED, AND EXISTING LOADS EXTENDED WITH COMPATIBLE MEANS TO ENSURE FACILITY FUNCTIONALITY. CONTRACTOR IS RESPONSIBLE FOR TRACING ALL CIRCUITS TO REMAIN TO ENSURE ACCURATE AND COMPLETE ELECTRICAL LOAD RECORDS.
7. CONTRACTOR IS RESPONSIBLE FOR THE PRESERVATION AND/OR RELOCATION OF ANY ELECTRICAL EQUIPMENT, WIRING, CONDUIT, AND ASSOCIATED INCIDENTAL MATERIALS THAT ARE TO REMAIN TO ENSURE FACILITY FUNCTIONALITY AND SYSTEM INTEGRITY.
8. ALL DEMOLITION AND RELOCATION OF NETWORK ACCESS AND SECURITY EQUIPMENT / PORTS IS TO BE COORDINATED WITH THE OWNER AND THE OWNER'S IT REPRESENTATIVE, BELLIA TECHNOLOGIES 1(856)202-7664).
9. SEE ARCHITECTURAL, MECHANICAL, AND STRUCTURAL PLANS FOR ADDITIONAL DEMOLITION DETAILS. ARCHITECTURAL DEMOLITION LINES ARE LIGHTENED HERE FOR CLARITY.

	EXISTING DUPLEX RECEPTACLE TO BE DEMOLISHED
	EXISTING QUAD. RECEPTACLE TO BE DEMOLISHED
	EXISTING LIGHT SWITCH TO BE DEMOLISHED
	EXISTING TELECOMMUNICATIONS PORT TO BE DEMOLISHED
	EXISTING JUNCTION BOX TO BE DEMOLISHED
	EXISTING EXIT SIGN TO BE DEMOLISHED
	EXISTING DUAL HEAD LIGHT FIXTURE TO BE DEMOLISHED
	EXISTING THERMOSTAT TO BE DEMOLISHED

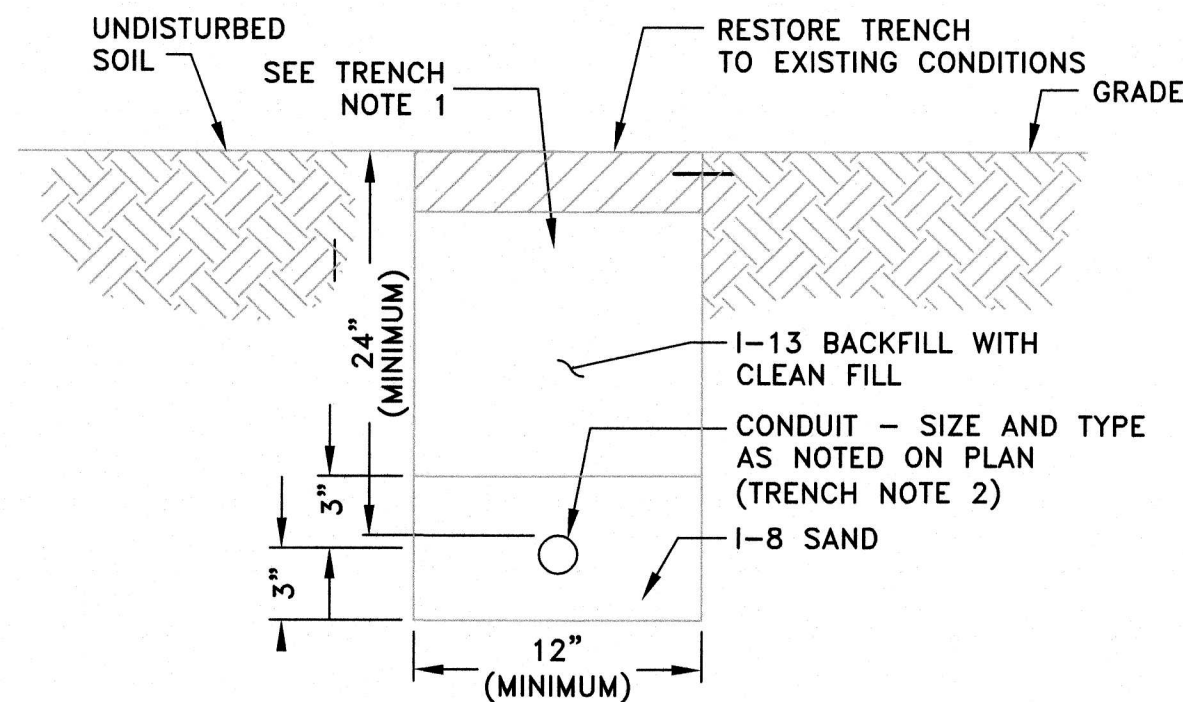


- ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE LATEST ADAPTATION OF THE NATIONAL ELECTRICAL CODE (NEC). ALL WORK SHALL BE PERFORMED BY A NEW JERSEY LICENSED ELECTRICAL CONTRACTOR.
2. ALL EQUIPMENT, MATERIALS, INSTALLATION AND CONSTRUCTION ACTIVITIES SHALL COMPLY WITH ALL REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION WHEREVER THEY APPLY.
3. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH EQUIPMENT MANUFACTURERS FOR ELECTRICAL SCOPE OF CONSTRUCTION.
4. CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF OTHER CONTRACTORS ON THE PROJECT, PRIOR TO ROUGHING-IN. CONTRACTOR SHALL REVIEW AND OBTAIN ACCURATE DATA/INFORMATION FROM APPROVED SHOP DRAWINGS OF OTHER TRADES INVOLVED.
5. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND RECORD ALL CURRENT INSTALLATION AND TERMINATIONS PRIOR TO THE INSTALLATION OR REMOVAL OF ANY EQUIPMENT. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF CONDUITS, ROUTING, BOXES, CIRCUITS AND EQUIPMENT ENSURE AS-BUILT CONDITIONS ARE CORRECT AS INDICATED ON PLANS PRIOR TO CONSTRUCTION.
6. ALL CONDUIT RUNS ARE DIAGRAMMATICALLY SHOWN ON THE DRAWINGS. THE FINAL ROUTING OF CONDUITS SHALL BE DETERMINED BY THE ELECTRICAL CONTRACTOR AND APPROVED BY THE ENGINEER. CONDUIT SHALL BE INSTALLED IN A MANNER TO PREVENT CONFLICTS WITH EQUIPMENT AND STRUCTURAL CONDITIONS. EXPOSED CONDUITS SHALL BE INSTALLED PARALLEL TO BEAMS AND WALLS. CONDUIT SHALL BE TERMINATED SO AS TO PERMIT NEAT CONNECTIONS TO EQUIPMENT.
7. THE POWER AND CONTROL WIRING SHALL BE STRANDED COPPER CONDUCTOR WITH XHHW INSULATION RATED 600 VOLTS.
8. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE GROUNDING SYSTEM IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. ELECTRICAL WIRE RACEWAYS, APPARATUS AND PANEL ENCLOSURES AND OTHER NON-CURRENT CARRYING METAL PARTS SHALL BE MECHANICALLY JOINED TO FORM A CONTINUOUS CONDUCTING METALLIC PATH AND ASSURE ELECTRICAL CONTINUITY OF THE GROUNDING CIRCUITS. THE STRANDED COPPER BONDING JUMPER CABLES AND/OR GROUND WIRES SHALL BE INSTALLED WHERE REQUIRED. THE SURFACE WHERE GROUNDING CONNECTIONS ARE TO BE MADE SHALL BE CLEAN AND DRY. STEEL SURFACES SHALL BE GROUND OR FILED TO REMOVE ALL SCALE, RUST, GREASE AND DIRT. COPPER AND GALVANIZED STEEL SHALL BE CLEANED WITH EMERY CLOTH TO REMOVE OXIDE BEFORE MAKING CONNECTIONS. ALL EQUIPMENT, STRUCTURES AND SUPPLEMENTAL GROUNDINGS FOR FOUNDATIONS SHALL BE FURNISHED AND INSTALLED PER THE NEC AND EQUIPMENT MANUFACTURER.
9. ALL FIELD WIRING TERMINATIONS SHALL BE MADE AT TERMINALS LOCATED IN THE INDIVIDUAL COMPARTMENTS OR ENCLOSURES. USE OF WIRE NUTS OR DIRECT WIRING WILL NOT BE ACCEPTED. ALL TERMINATION POINTS MUST BE IDENTIFIED IN THE SHOP DRAWINGS AND PERMANENTLY / CLEARLY MARKED IN ACCORDANCE WITH THE SPECIFICATION REQUIREMENTS. TERMINATOR MATERIALS SHALL BE SIZED FOR THE INSTALLED CONDUCTORS.
10. ALL WIRES SHALL BE NEATLY BUNDLED AND TAGGED TO INDICATE THE CONNECTED DEVICE. EACH WIRE SHALL BE COLOR CODED AND TAGGED WITH A PLASTIC SLEEVE TYPE WIRING TAG. WIRING SHALL BE TAGGED AT EACH POINT OF TERMINATION.
11. ALL DEVICES AND APPARATUS FURNISHED SHALL BE NEW AND SHALL BE UL LISTED.
12. THE WIRING DIAGRAMS, QUANTITY AND SIZE OF WIRES AND CONDUIT REPRESENT A SUGGESTED ARRANGEMENT BASED UPON SELECTED STANDARD COMPONENTS OF ELECTRICAL EQUIPMENT. MODIFICATIONS ACCEPTABLE TO THE ENGINEER MAY BE MADE BY THE CONTRACTOR TO ACCOMMODATE EQUIPMENT ACTUALLY PURCHASED. THE BASIC SEQUENCE AND METHOD OF CONTROL MUST BE MAINTAINED AS INDICATED ON THE DRAWINGS AND/OR SPECIFICATION.
13. CONTRACTOR SHALL FURNISH AND INSTALL ALL CIRCUIT BREAKERS, DISCONNECTS, AND FUSING PER MANUFACTURER RECOMMENDATIONS AND PER NEC CODE. ALL CIRCUIT BREAKERS AND DISCONNECTS FOR MOTOR-OPERATED EQUIPMENT SHALL BE EQUIPPED WITH LOCK-OUT / TAG-OUT ACCESSORY.
14. CONTRACTOR SHALL COORDINATE AND SCHEDULE SHUTDOWNS AT SUITABLE TIMES TO THE OWNER. OWNER AND CONTRACTOR SHALL JOINTLY LOCK OUT AND TAG OUT BREAKERS AND SWITCHES DURING SHUTDOWN PERIODS.
15. ALL NEW EQUIPMENT SHOWN IS PROPOSED APPROXIMATE LOCATION BASED ON MANUFACTURER SUPPLIED DOCUMENTS. ALL EXISTING EQUIPMENT SHOWN IS APPROXIMATE LOCATION BASED ON RECORD DRAWINGS AND FIELD OBSERVATION. CONTRACTOR SHALL FIELD VERIFY ALL DEVICE LOCATIONS PRIOR TO CONSTRUCTION.
16. CONTRACTOR SHALL PERFORM A SITE VISIT PRIOR TO BIDDING TO REVIEW ALL WORK REQUIRED. ANY EXISTING CONDITION FOUND WHICH WILL AFFECT WORK TO BE COMPLETED SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING PRIOR TO BID DATE. CLAIMS FOR EXTRA WORK WILL NOT BE ALLOWED FOR ANY WORK THAT MAY BE CAUSED BY EXISTING CONDITIONS, IN WHICH SHOULD HAVE BEEN FORESEEN SUBSEQUENT TO THE JOB SITE VISIT.
17. EXISTING UNDERGROUND PIPE, CONDUIT AND APPURTENANCES ARE NOT SHOWN IN COMPLETE DETAIL. CONTRACTOR SHALL LOCATE ALL EXISTING SUBSURFACE EQUIPMENT WHICH MAY CONFLICT WITH NEW CONSTRUCTION SO AS TO AVOID CONFLICTS WITH OR DAMAGE TO EXISTING BELOW GRADE MATERIALS.
18. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL WORK AS SHOWN ON THE CONTRACT DRAWINGS AND AS OUTLINED IN THE CONTRACT SPECIFICATIONS WITH THE FOLLOWING UNDERSTANDINGS:
 - 18.1. THE CONTRACT DRAWINGS ARE ONLY DIAGRAMMATIC IN NATURE AND ARE INTENDED TO OUTLINE THE SYSTEM TO BE PROVIDED. THEREFORE, MINOR DETAILS AND APPURTENANCES MAY OR MAY NOT BE SHOWN. THE OMISSION OF A MINOR COMPONENT SHALL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO FURNISH AND INSTALL ALL SUCH ITEMS NECESSARY TO PROVIDE A COMPLETE, OPERATIVE, AND CODE COMPLIANT SYSTEM TO THE OWNER. IF THERE ARE ANY DOUBTS TO THE EXTENT OR SCOPE OF WORK REQUIRED THE ENGINEER SHALL BE CONTACTED TO PROVIDE CLARIFICATION DURING THE BID PHASE.

19. WORK UNDER THIS CONTRACT INCLUDES THE FURNISHING OF EQUIPMENT, MATERIAL, TOOLS, TRANSPORTATION, SERVICES, SCAFFOLDING, SUPERVISION, LABOR AND OTHER APPURTENANCES REQUIRED FOR THE FABRICATION, INSTALLATION, OR APPLICATION AND COMPLETION OF THE WORK UNDER THIS SECTION AS SHOWN OR AS IMPLIED ON THE CONTRACT DRAWINGS AND SPECIFICATIONS.
20. SEE SHEETS ED1 AND ED2 FOR DEMOLITION PLANS AND NOTES.
21. SEE A-SERIES PLANS FOR ARCHITECTURAL DETAILS, H-SERIES PLANS FOR MECHANICAL DETAILS, AND S-SERIES PLANS FOR STRUCTURAL DETAILS.
22. CONTRACTOR SHALL COORDINATE WITH OWNER'S IT REPRESENTATIVE, BELLIA TECHNOLOGIES, REGARDING ALL MATTERS CONCERNING THE INSTALLATION OF NETWORK EQUIPMENT AND SECURITY. CONTACT AT BELLIA TECHNOLOGIES: KEN BELLIA, KEN@BELLIAECHT.COM, (856)202-7664.
23. CONTRACTOR SHALL COORDINATE WITH OWNER'S BUILDING MANAGEMENT SYSTEM REPRESENTATIVE, SCHNEIDER ELECTRICAL, FOR ALL CONTROLS INTEGRATION AND INSTALLATION. CONTACT AT SCHNEIDER ELECTRICAL: WILHELMUS PENNING, (717)460-5016.



SCALE: $1/32" = 1'-0"$



SCALE: N.T.S.

1. DETECTABLE UNDERGROUND TAPE: "CAUTION BURIED ELECTRICAL LINE BELOW", RED TAPE WITH BLACK LETTERS, 6" x 1000 FEET, BRADY LABELS OR EQUIVALENT. BURY 6" (MINIMUM) BELOW GRADE. BURY TAPE DIRECTLY OVER SINGLE OR MULTIPLE CONDUITS OR OVER MULTIPLE CONDUITS UNLESS QUANTITY OF CONDUITS IN TRENCH EXCEEDS (5) FIVE CONDUITS, IN WHICH CASE USE (2) TWO TAPES CONDUITED ON OUTER-MOST CONDUITS.
2. MAINTAIN AT LEAST 7" SEPARATION BETWEEN ADJACENT CONDUITS IN TRENCH AND 12" SEPARATION FROM ANY UNDERGROUND SERVICE CONDUITS/PIPE.

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ELECTRICAL CONSTRUCTION NOTES:

1. SEE SHEET E0 FOR ELECTRICAL KEY PLAN AND GENERAL ELECTRICAL NOTES.
2. CONTRACTOR SHALL FURNISH AND INSTALL NEW JUNCTION BOXES JBX-1 AND JBX-2 IN APPROXIMATE PLACE OF EXISTING PANELS L4A AND "BROWSING & OUTSIDE LITES" TO BE DEMOLISHED. CONTRACTOR SHALL USE JUNCTION BOXES TO EXTEND EXISTING LOAD WIRING AND CONDUIT AS REQUIRED TO ENSURE ALL EXISTING SYSTEMS TO REMAIN ARE CONNECTED TO NEW POWER SOURCE VIA NEW LIGHTING PANELS. CONTRACTOR TO ENSURE ALL CIRCUITS THAT ARE NOT ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED IN THIS CONTRACT ARE EXTENDED AND CONNECTED TO NEW PANELS L4A AND H4B AS REQUIRED. SEE SHEETS E6 AND E7 FOR EXISTING AND NEW PANEL SCHEDULES. EXISTING CIRCUITS TO BE EXTENDED ARE SHOWN TO THE EXTENT OF AVAILABLE INFORMATION, THE CONTRACTOR IS RESPONSIBLE FOR ENSURING COMPLETE FUNCTIONALITY AND INTEGRITY OF SYSTEMS TO REMAIN.
3. CONDUITS TO EXTEND EXISTING CIRCUITS TO REMAIN FROM JUNCTION BOXES JBX-1 AND JBX-2 TO NEW PANEL. SHALL BE ELECTRICAL METALLIC TUBING TYPE CONDUIT BELOW ACCESSIBLE CEILINGS, SIZED AS REQUIRED DURING CONSTRUCTION. MC CABLE USE IS PERMITTED ABOVE ACCESSIBLE CEILING. THE CIRCUITS ARE TO BE EXTENDED WITH COMPATIBLE MEANS AND TRACED TO THEIR SOURCE ON EITHER END TO ENSURE COMPLETE SYSTEM INTEGRITY AND FUNCTIONALITY AND TO PROVIDE THE OWNER WITH A COMPLETE/ACCURATE PANEL SCHEDULE.
4. CONTRACTOR SHALL PRESERVE AND RECONNECT EXISTING WIRING FEEDING PANEL H4A. CONTRACTOR SHALL EXTEND WITH COMPATIBLE MEANS AS REQUIRED, AND ENSURE THE INTEGRITY OF EXISTING WIRING TO REMAIN.

LEGEND:

- NEW DUPLEX RECEPTACLE
- NEW QUAD. RECEPTACLE
- NEW TELECOMMUNICATIONS PORT

MATCH LINE

KEY PLAN

NOT TO SCALE

ELECTRICAL & UTILITY ROOM FLOOR PLAN

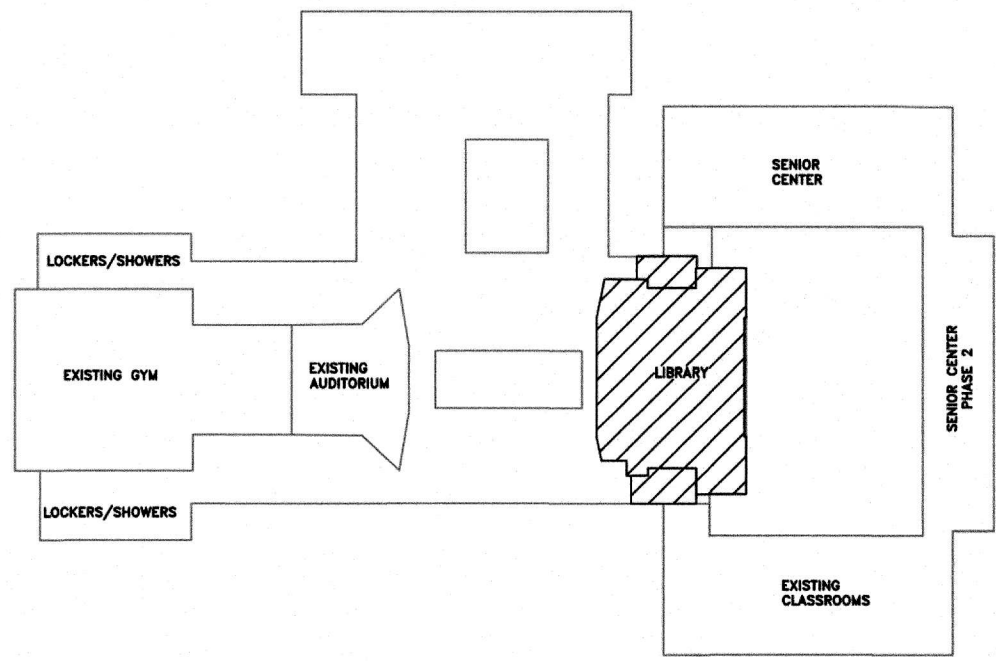
SCALE: 1/2" = 1'-0"

ELECTRICAL FLOOR PLAN

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

APPROVED William R. Long PROFESSIONAL ENGINEER NEW JERSEY LICENSE NO. 33012		APPROVED Anita S. Aradhya REGISTERED ARCHITECT NEW JERSEY LICENSE NO. 18769		BY	DATE	REVISIONS		Tri-State Architects, P.C. / Alaimo Group	DATE: AUG. 2026	DESIGNED BY: JRN/KMG	DRAWN BY: AAR/KMG	CHECKED BY: JRN/KMG	DEPT. HEAD: JRN/KMG	CLIENT: WILLINGBORO TOWNSHIP	PROJECT NO.: M-0410-0011-000	PROJECT LOCATION: WILLINGBORO TWP. BURLINGTON COUNTY NEW JERSEY	SCALE: AS NOTED	SHEET E1	FILE NO.:
								LIC. 33012	LIC. 18769					WILLIAM R. LONG, P.E.	M-0410-0011-000				
								LIC. 18769	LIC. 18769					ANITA S. ARADHYA, R.A.	BID#8-2026				
								MOUNT HOLLY, N.J.						200 HIGH STREET					

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KEY PLAN
NOT TO SCALE

LUMINAIRE SCHEDULE					
ID	LAMPS	VENDOR	PART NUMBER	MOUNTING	DESCRIPTION
A	27.6 WATTS	PORTFOLIO OR EQUIVALENT	ER8B30409730	RECESSED WITH STANDARD HOUSING AND 8LBMOPH TRIM	8" RECESSED ROUND LIGHT FIXTURE WITH STANDARD HOUSING RATED FOR PLENUM SPACE AND GRAPHITE COLORED TRIM
A _E	27.6 WATTS	PORTFOLIO OR EQUIVALENT	ER8B30409730	RECESSED WITH IEMV14 HOUSING AND 8LBMOPH TRIM	8" RECESSED ROUND LIGHT FIXTURE WITH EMERGENCY POWER HOUSING RATED FOR PLENUM SPACE AND GRAPHITE COLORED TRIM WITH SPACE FOR EMERGENCY TEST SWITCH ACCESS
B	24.5 WATTS	CORELITE OR EQUIVALENT	RX-WO-34H930-UNV-22-T1-STD	RECESSED	2'X2' RECESSED ARCHITECTURAL LIGHT FIXTURE WITH ROUND OPAL LENS
B _E	24.5 WATTS	CORELITE OR EQUIVALENT	RX-WO-34H930-UNV-22-T1-STD-EL14W	RECESSED	2'X2' RECESSED ARCHITECTURAL LIGHT FIXTURE WITH ROUND OPAL LENS AND EMERGENCY BATTERY OPTION
C	25.6 WATTS	CORELITE OR EQUIVALENT	RX-WO-35H930-UNV-24-T1-STD	RECESSED	2'X4' RECESSED ARCHITECTURAL LIGHT FIXTURE WITH ROUND OPAL LENS
C _E	25.6 WATTS	CORELITE OR EQUIVALENT	RX-WO-35H930-UNV-24-T1-STD-EL14W	RECESSED	2'X4' RECESSED ARCHITECTURAL LIGHT FIXTURE WITH ROUND OPAL LENS AND EMERGENCY BATTERY OPTION
D	29.2 WATTS	CORELITE OR EQUIVALENT	VLT-F-0U-100D-935-1-D-UNV-STD-B-A C48-UM-8	SUSPENDED FROM CEILING	4"X4' LINEAR ARCHITECTURAL VAULT STYLE LIGHT FIXTURE WITH FROSTED CONTINUOUS ROLL LENS
D _E	29.2 WATTS	CORELITE OR EQUIVALENT	VLT-F-0U-100D-935-1-D-UNV-STD-BSL 6-B-AC48-UM-8	SUSPENDED FROM CEILING	4"X4' LINEAR ARCHITECTURAL VAULT STYLE LIGHT FIXTURE WITH FROSTED CONTINUOUS ROLL LENS AND EMERGENCY BATTERY OPTION
G	17 WATTS	MCGRAW-EDISON OR EQUIVALENT	BRT6-A3-740-U-T4-36-BZ	BOLLARD WITH 6" ROUND BASE	36" TALL 6" DIAMETER ROUND LED BOLLARD PEDESTRIAN LIGHT FIXTURE
H	36.4 WATTS	MCGRAW-EDISON OR EQUIVALENT	ISS-PA1B-830-UNV-T3-BZ	EXTERIOR WALL MOUNT	SEMI-CIRCLE WALL MOUNT CUT OFF EXTERIOR LIGHT FIXTURE WITH T3 LIGHT DISTRIBUTION AND BRONZE FINISH
E	0.78 WATTS	SURE-LITES OR EQUIVALENT	APC7RG	WALL OR CEILING MOUNT	COMBINATION LED EXIT SIGN AND EMERGENCY LIGHT WITH THERMOPLASTIC HOUSING WITH SELECTABLE RED OR GREEN FACES

ELECTRICAL CONSTRUCTION NOTES:

- SEE SHEET E0 FOR ELECTRICAL KEY PLAN AND GENERAL ELECTRICAL NOTES.
- CONTRACTOR SHALL FURNISH AND INSTALL NEW LIGHTING AS INDICATED. CONTRACTOR TO COORDINATE WITH OWNER AND ARCHITECT ON ALL AESTHETIC DETAILS, INCLUDING BUT NOT LIMITED TO FINAL FIXTURE SELECTIONS, TEMPERATURE, AND SWITCH COLOR, TO ENSURE FACILITY MEETS ARCHITECTURAL DESIGN INTENT.
- CONTRACTOR IS RESPONSIBLE FOR ENSURING FACILITY HAS PROPER LIGHTING LEVELS, PER OWNER REQUIREMENTS AND ALL RELEVANT CODES. LIGHTING LAYOUT IS DIAGRAMMATIC AND BASED ON DESIGN FIXTURES. SEE CONTRACT SPECIFICATIONS FOR REQUIRED FOOTCANDLES BASED ON SPACE USE.
- EXISTING LIGHTING FIXTURES AND CONTROLS TO REMAIN IN PLACE. CONTRACTOR SHALL FURNISH AND INSTALL NEW WIRING AS INDICATED IN INTERIOR LIGHTING BLOCK DIAGRAM, SHEET E5, IN ORDER TO SUPPLY POWER TO EXISTING LIGHTING FIXTURES AND CONTROLS.

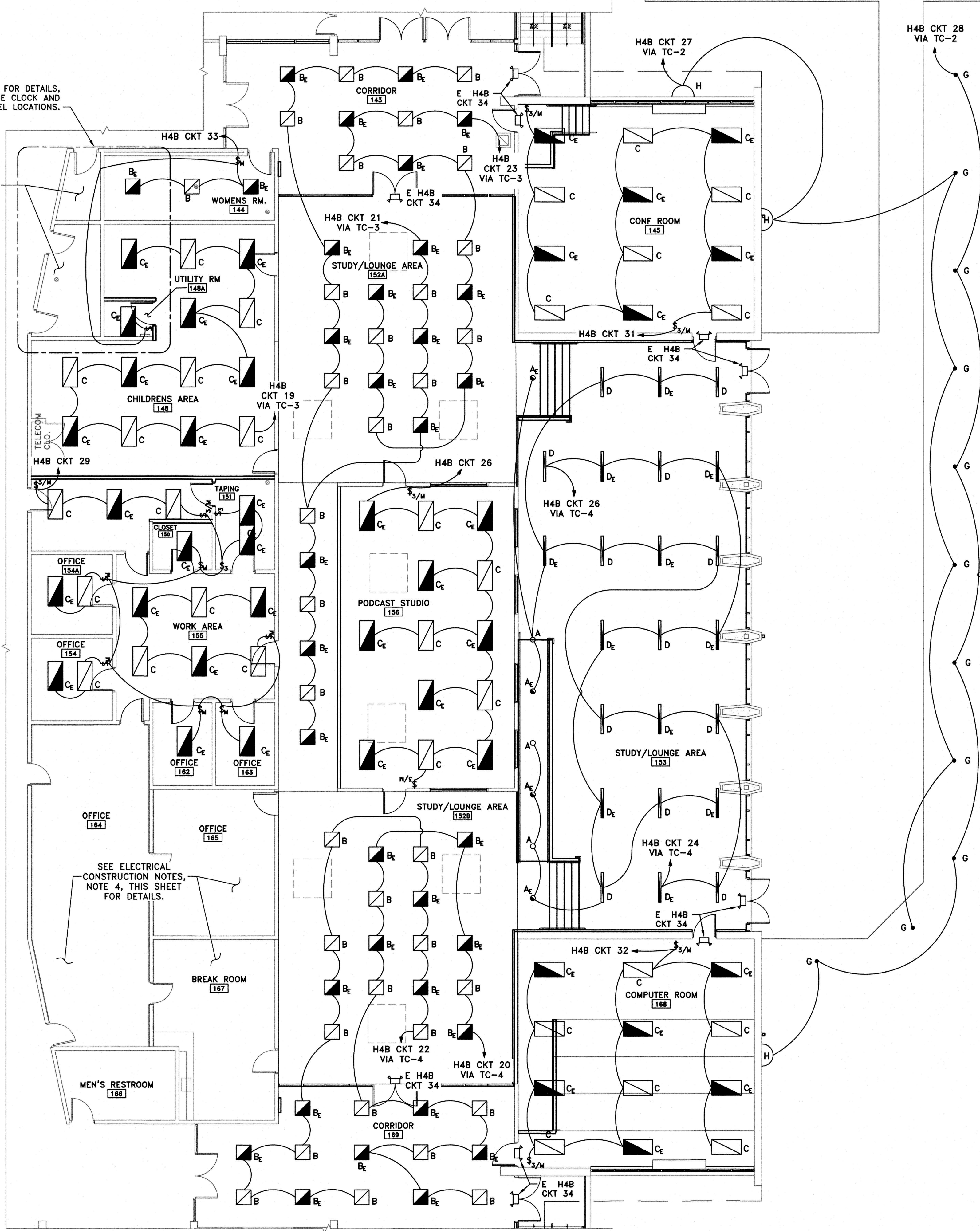
LEGEND:

- NEW SINGLE POLE LIGHT SWITCH WITH MOTION SENSOR
- NEW THREE-WAY LIGHT SWITCH
- NEW THREE-WAY LIGHT SWITCH WITH MOTION SENSOR
- NEW FOUR-WAY LIGHT SWITCH WITH MOTION SENSOR
- NEW EXIT SIGN
- NEW EMERGENCY DUAL HEAD LIGHT FIXTURE

SEE SHEET E1 FOR DETAILS, INCLUDING TIME CLOCK AND PANEL LOCATIONS.

SEE ELECTRICAL CONSTRUCTION NOTES, NOTE 4, THIS SHEET FOR DETAILS.

SEE ELECTRICAL CONSTRUCTION NOTES, NOTE 4, THIS SHEET FOR DETAILS.



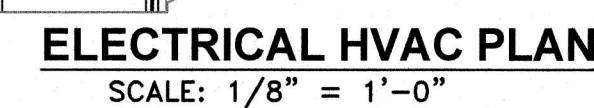
ELECTRICAL LIGHTING PLAN
SCALE: 1/8" = 1'-0"

100% DRAWINGS-8-10-2026

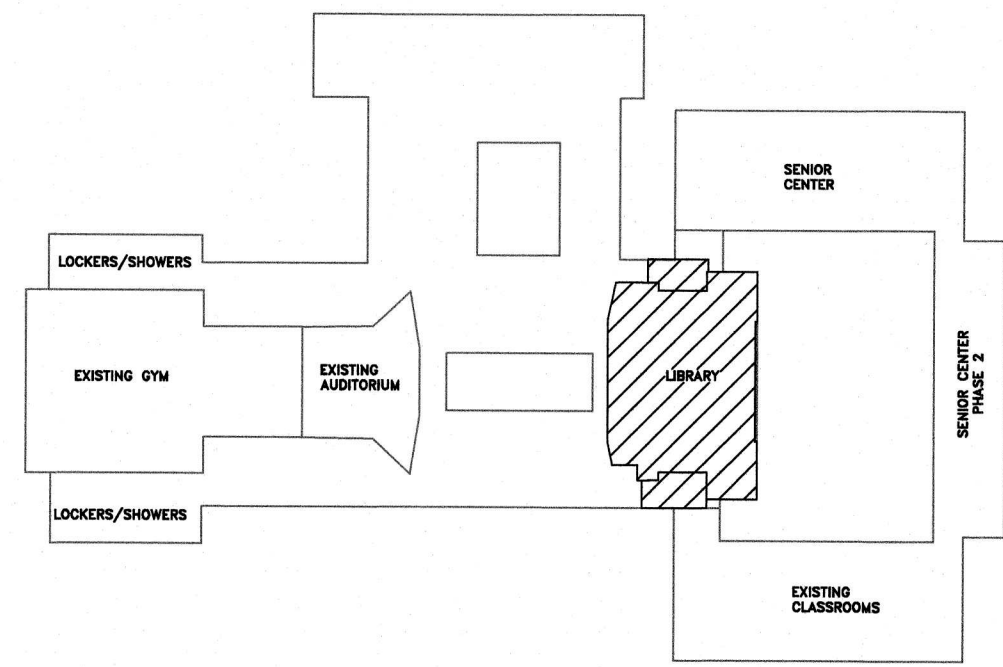
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DATE: AUG. 2026	DESIGNED BY: JRU/KMG
DRAWN BY: JRU/KMG	CHECKED BY: JRU/KMG
PROJECT NO.: M-0410-001-000	CONTRACT NO.: BID#8-2026
CLIENT: WILLINGBORO TOWNSHIP	PROJECT LOCATION: WILLINGBORO TWP. BURLINGTON COUNTY NEW JERSEY
KENNEDY CENTER RENOVATION TO THE SENIOR CENTER	ELECTRICAL LIGHTING PLAN
SHEET E2	
FILE NO.:	
SCALE: AS NOTED	



1. SEE SHEET E0 FOR ELECTRICAL KEY PLAN AND GENERAL ELECTRICAL NOTES.
2. SEE H-SERIES MECHANICAL PLANS FOR HVAC EQUIPMENT SCHEDULES, SEQUENCE OF OPERATIONS, AND OTHER DETAILS.
3. SEE SHEET E4, ELECTRICAL HVAC PLAN 2 OF 2, FOR ADDITIONAL DETAILS REGARDING THE POWER SUPPLY FOR ROOF TOP UNIT RTU-20, INCLUDING EXISTING ELECTRICAL ROOM LOCATION, LAYOUT, AND CONDUIT ROUTING REQUIREMENTS.
4. CONTRACTOR SHALL COORDINATE WITH OWNER'S BUILDING MANAGEMENT SYSTEM REPRESENTATIVE, SCHNEIDER ELECTRICAL, FOR ALL CONTROLS INTEGRATION AND INSTALLATION. CONTACT AT SCHNEIDER ELECTRICAL: WILHELMUS PENNING, (717)460-5016.



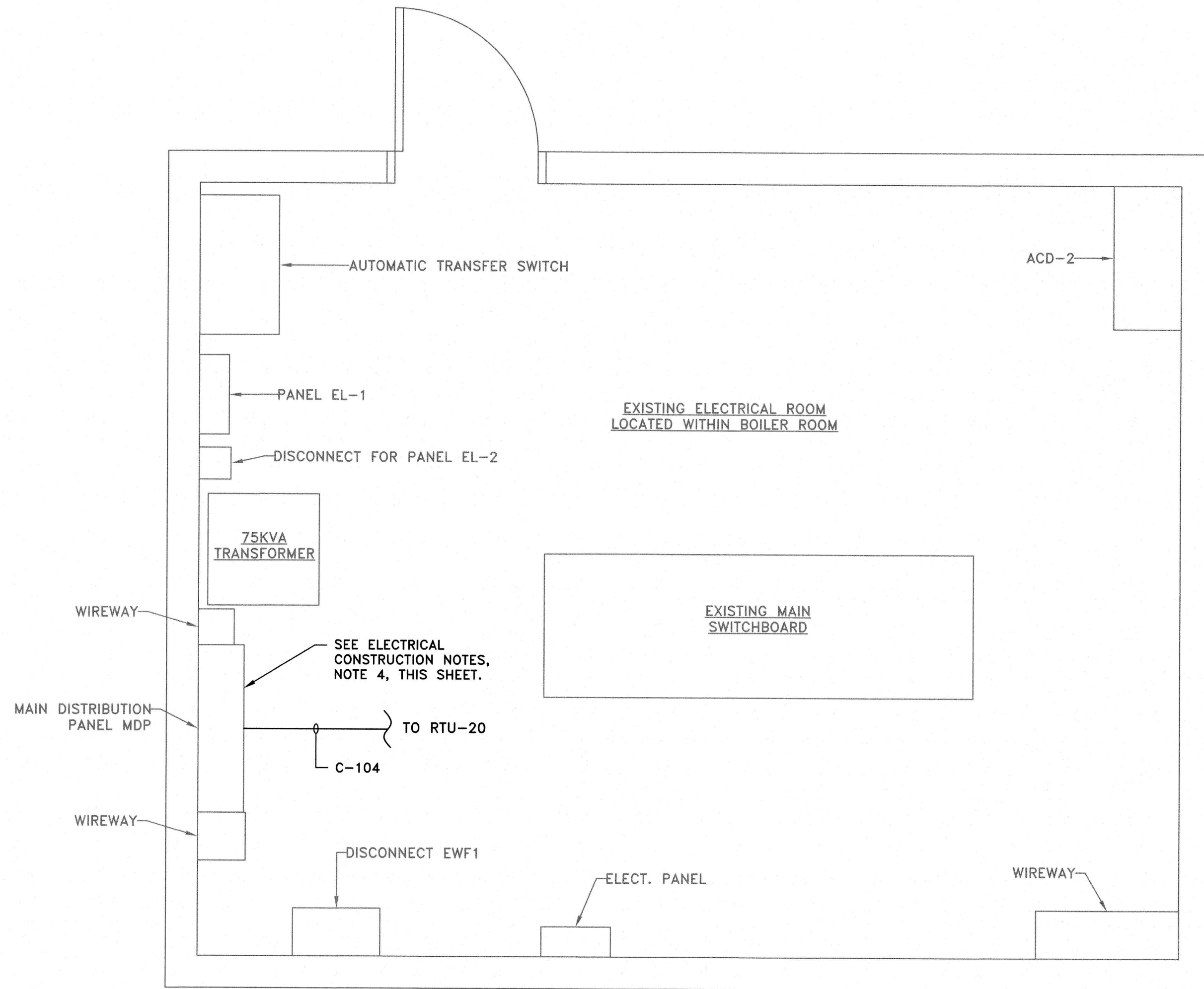
Plotted: 9/22/2026 9:43 AM Last saved: 8/10/2026 3:35 PM File Name: M:\Projects\00410001\Drawings\GLQ-E1-EB-Electrical Plans.dwg



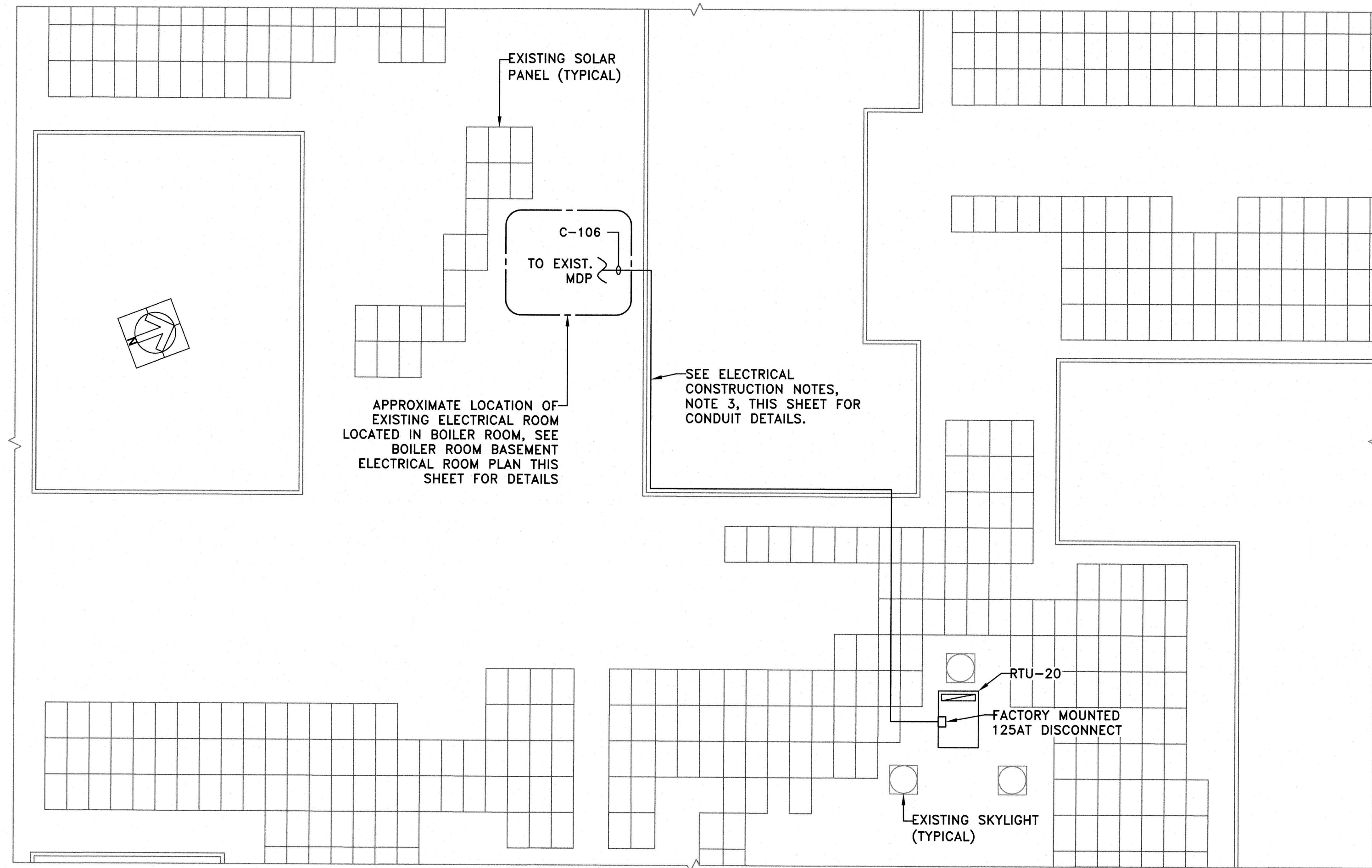
KEY PLAN
NOT TO SCALE

ELECTRICAL CONSTRUCTION NOTES:

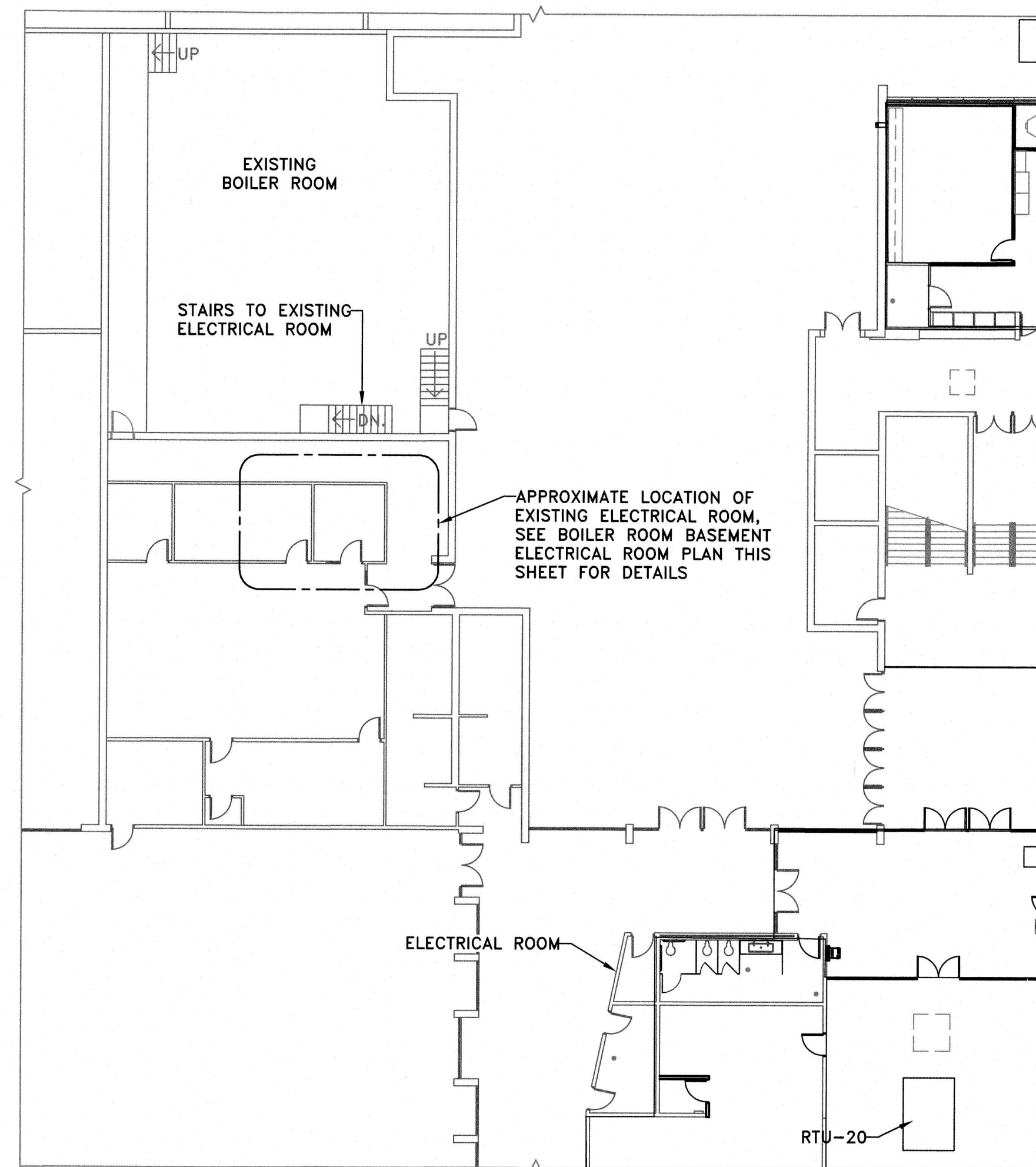
1. SEE SHEET E0 FOR ELECTRICAL KEY PLAN AND GENERAL ELECTRICAL NOTES. SEE SHEET E3, ELECTRICAL HVAC PLAN 1 OF 2, FOR ADDITIONAL ELECTRICAL DETAILS FOR HVAC EQUIPMENT OTHER THAN ROOF TOP UNIT RTU-20.
2. SEE H-SERIES MECHANICAL PLANS FOR HVAC EQUIPMENT SCHEDULES, SEQUENCE OF OPERATIONS, AND OTHER DETAILS.
3. CONTRACTOR SHALL ROUTE CONDUIT FROM EXISTING ELECTRICAL ROOM LOCATED IN EXISTING BOILER ROOM ALONG BUILDING EXTERIOR. CONTRACTOR IS RESPONSIBLE FOR FINAL CONDUIT ROUTING ACCORDING TO ALL RELEVANT CODES.
4. CONTRACTOR SHALL FURNISH AND INSTALL NEW 125AT, 3-POLE CIRCUIT BREAKER IN EXISTING MAIN DISTRIBUTION PANEL MDP IN ORDER TO FEED NEW RTU-20.
5. CONTRACTOR SHALL COORDINATE WITH OWNER'S BUILDING MANAGEMENT SYSTEM REPRESENTATIVE, SCHNEIDER ELECTRICAL, FOR ALL CONTROLS INTEGRATION AND INSTALLATION. CONTACT AT SCHNEIDER ELECTRICAL: WILHELMUS PENNING, (717)460-5016.



BOILER ROOM BASEMENT ELECTRICAL ROOM PLAN
SCALE: 1/2" = 1'-0"



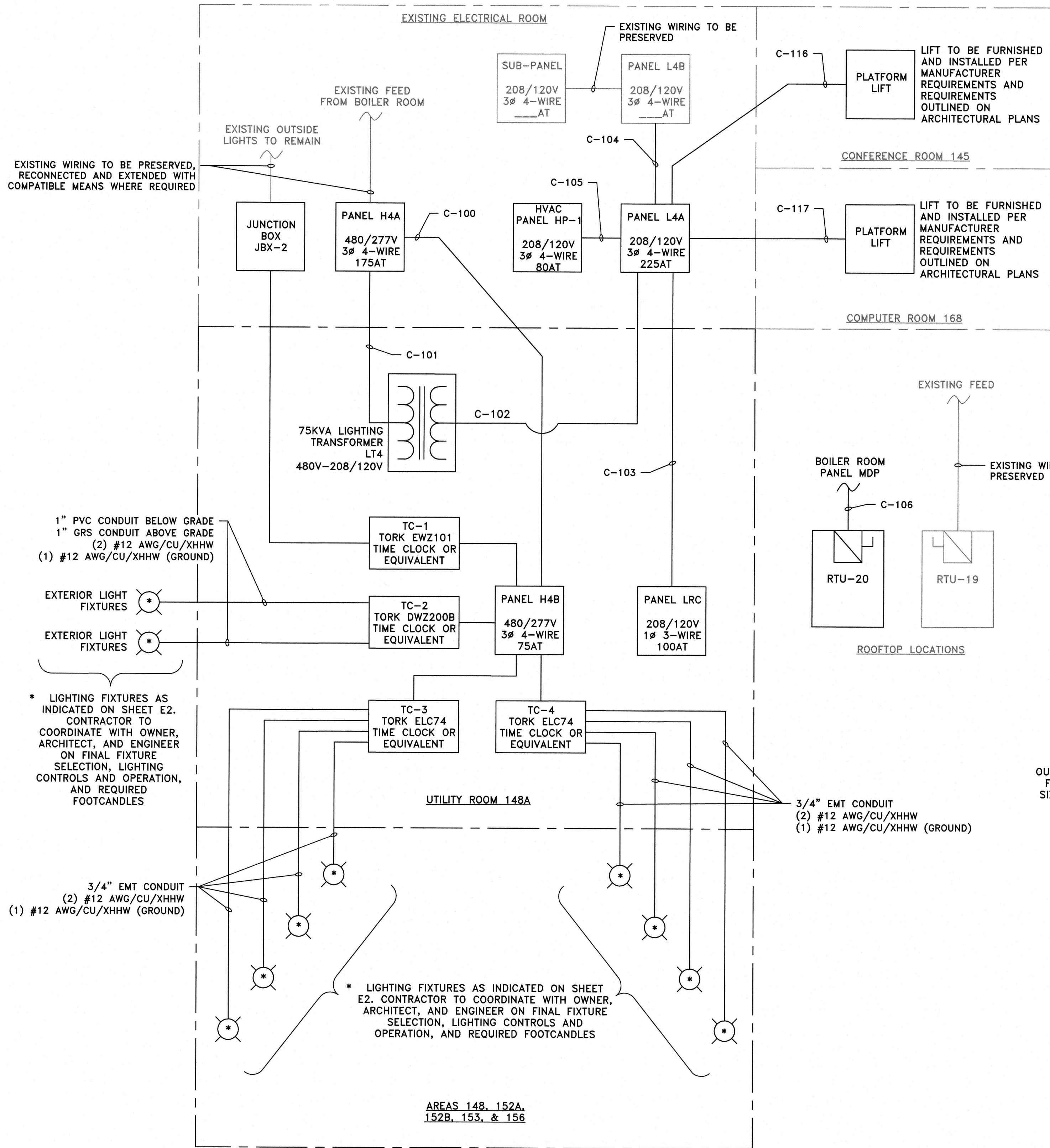
ELECTRICAL HVAC ROOF PLAN
SCALE: 1/16" = 1'-0"



ELECTRICAL HVAC PLAN BOILER ROOM
SCALE: 1/16" = 1'-0"

FILE NO.:	SHEET E4		KENNEDY CENTER RENOVATION TO THE SENIOR CENTER	CLIENT: WILLINGBORO TOWNSHIP	DATE: AUG. 2026 DESIGNED BY: JRN/KMG DRAWN BY: JRN/KMG CHECKED BY: JRN/KMG DEPT. HEAD: JRN/KMG	PROJECT NO.: M-0410-0011-0000 CONTRACT NO.: BID#6-2026	PROJECT LOCATION: WILLINGBORO TWP. BURLINGTON COUNTY NEW JERSEY	WILLIAM R. LONG, P.E. ANITA S. ARADHYA, R.A. 200 HIGH STREET MOUNT HOLLY, N.J.	L.C. 33012 L.C. 18769	REVISIONS	DATE	BY	APPROVED  William R. Long PROFESSIONAL ENGINEER NEW JERSEY LICENSE NO. 33012 9.23.26
ELECTRICAL HVAC PLAN 2 OF 2 SCALE: AS NOTED													

Plotted: 9/22/2026 9:44 AM Last saved: 8/10/2026 3:35 PM File Name: M:\Projects\W0410001\000\Drawings\G0-E1-EB-Electrical Plans.dwg

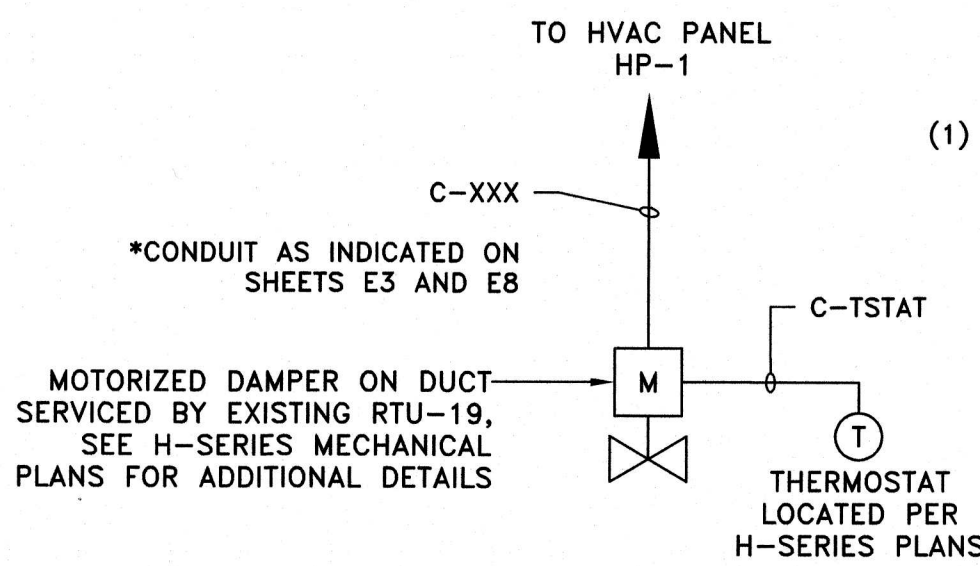


ELECTRICAL BLOCK DIAGRAM

SCALE: NOT TO SCALE

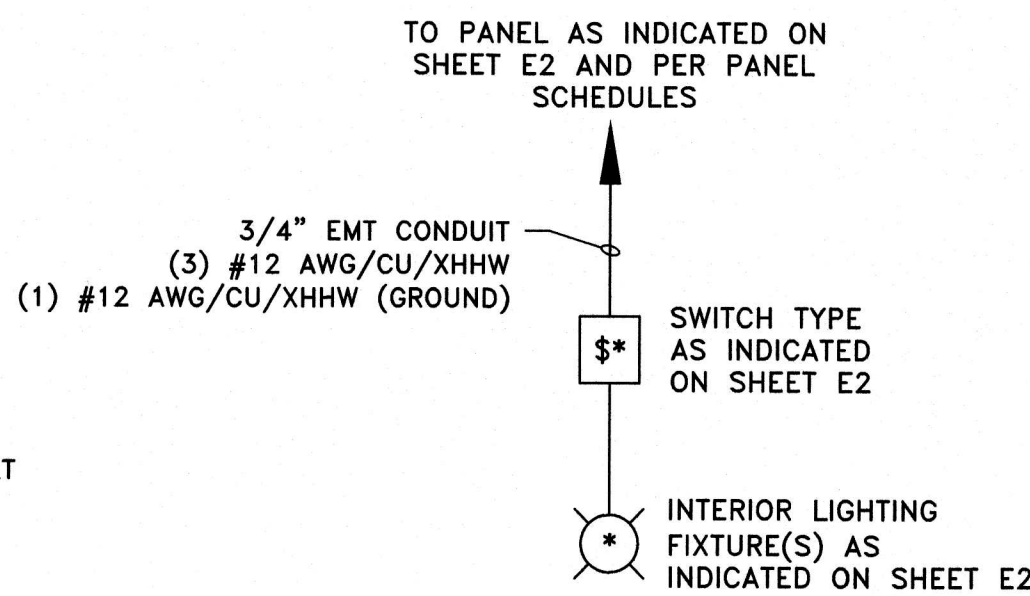
ELECTRICAL BLOCK DIAGRAM NOTES:

- SEE SHEET E0 FOR ELECTRICAL KEY PLAN AND GENERAL ELECTRICAL NOTES.
- CONTRACTOR SHALL FURNISH AND INSTALL NEW JUNCTION BOXES JBX-1 AND JBX-2 IN APPROXIMATE PLACE OF EXISTING PANELS L4A AND 'BROWSING & OUTSIDE LITES' TO BE DEMOLISHED. CONTRACTOR SHALL USE JUNCTION BOXES TO EXTEND EXISTING LOAD WIRING AND CONDUIT AS REQUIRED TO ENSURE ALL EXISTING SYSTEMS TO REMAIN ARE CONNECTED TO NEW POWER SOURCE VIA NEW LIGHTING PANEL L4C. CONTRACTOR TO ENSURE ALL CIRCUITS THAT ARE NOT ASSOCIATED WITH EQUIPMENT TO BE DEMOLISHED IN THIS CONTRACT ARE EXTENDED AND CONNECTED TO NEW PANELS L4A AND L4C AS REQUIRED. SEE SHEETS E5A AND E5B FOR EXISTING AND NEW PANEL SCHEDULES. EXISTING CIRCUITS TO BE EXTENDED ARE SHOWN TO THE EXTENT OF AVAILABLE INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING COMPLETE FUNCTIONALITY AND INTEGRITY OF SYSTEMS TO REMAIN.
- CONDUITS TO EXTEND EXISTING CIRCUITS TO REMAIN FROM JUNCTION BOXES JBX-1 AND JBX-2 TO NEW PANEL SHALL BE ELECTRICAL METALLIC TUBING TYPE CONDUIT BELOW ACCESSIBLE CEILINGS, SIZED AS REQUIRED DURING CONSTRUCTION. MC CABLE USE IS PERMITTED ABOVE ACCESSIBLE CEILING. THE CIRCUITS ARE TO BE EXTENDED WITH COMPATIBLE MEANS AND TRACED TO THEIR SOURCE ON EITHER END TO ENSURE COMPLETE SYSTEM INTEGRITY AND FUNCTIONALITY AND TO PROVIDE THE OWNER WITH A COMPLETE/ACCURATE PANEL SCHEDULE.
- WHERE APPLICABLE, CONTRACTOR TO TRACE EXISTING CIRCUITS TO ENSURE EXISTING WIRING EXISTING WIRING AND BREAKERS ARE SUFFICIENT PER NEC. IF WIRING INTEGRITY AND SIZING IS ACCEPTABLE, CONTRACTOR MAY RE-USE EXISTING WIRING WHERE POSSIBLE, EXTENDING WITH COMPATIBLE MEANS AS REQUIRED.



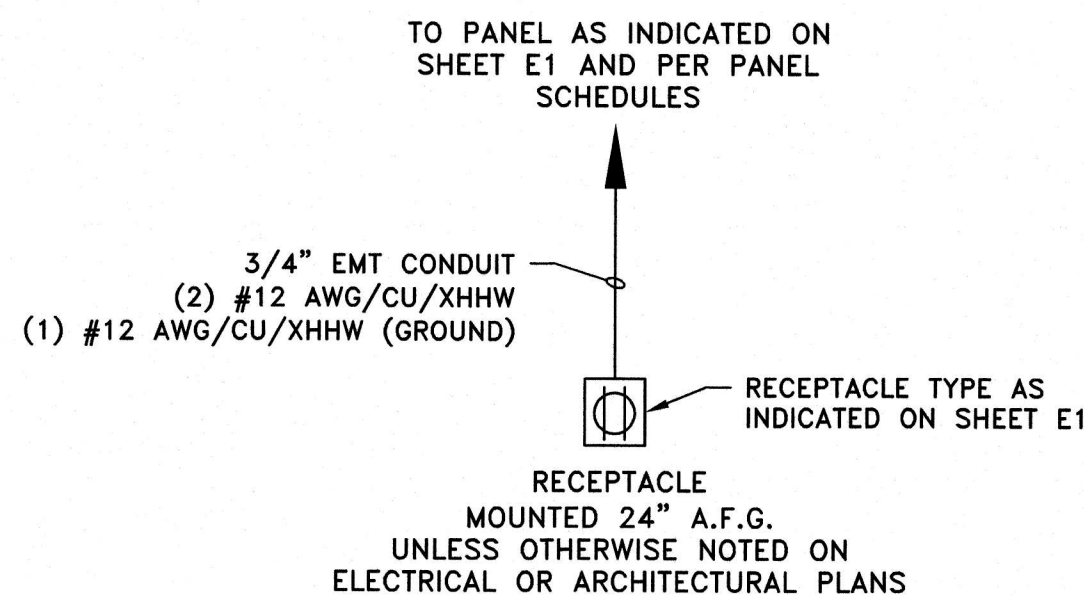
MOTORIZED DAMPER BLOCK DIAGRAM (TYPICAL 4)

SCALE: NOT TO SCALE



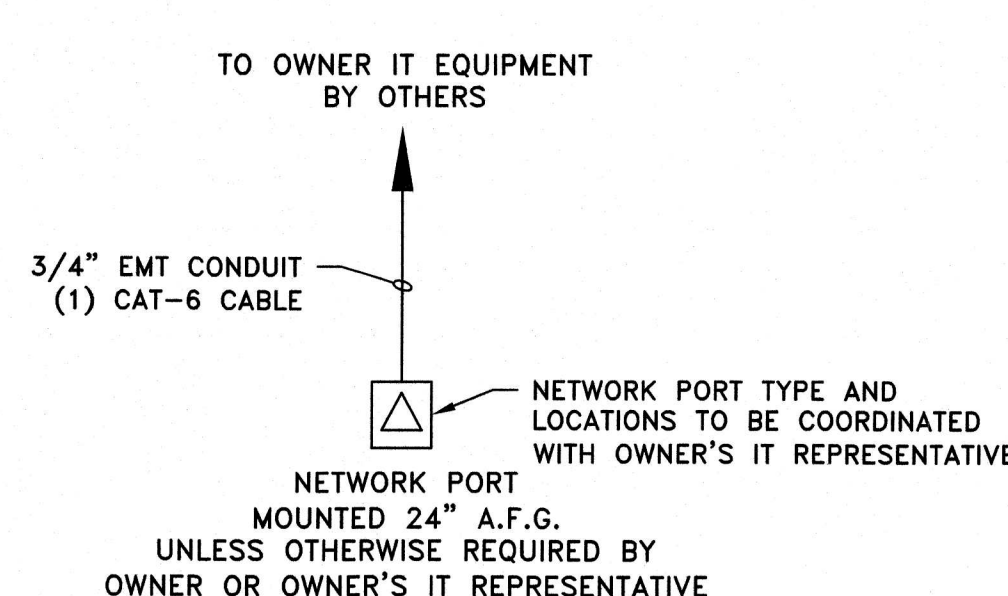
INTERIOR LIGHTING BLOCK DIAGRAM (TYPICAL)

SCALE: NOT TO SCALE



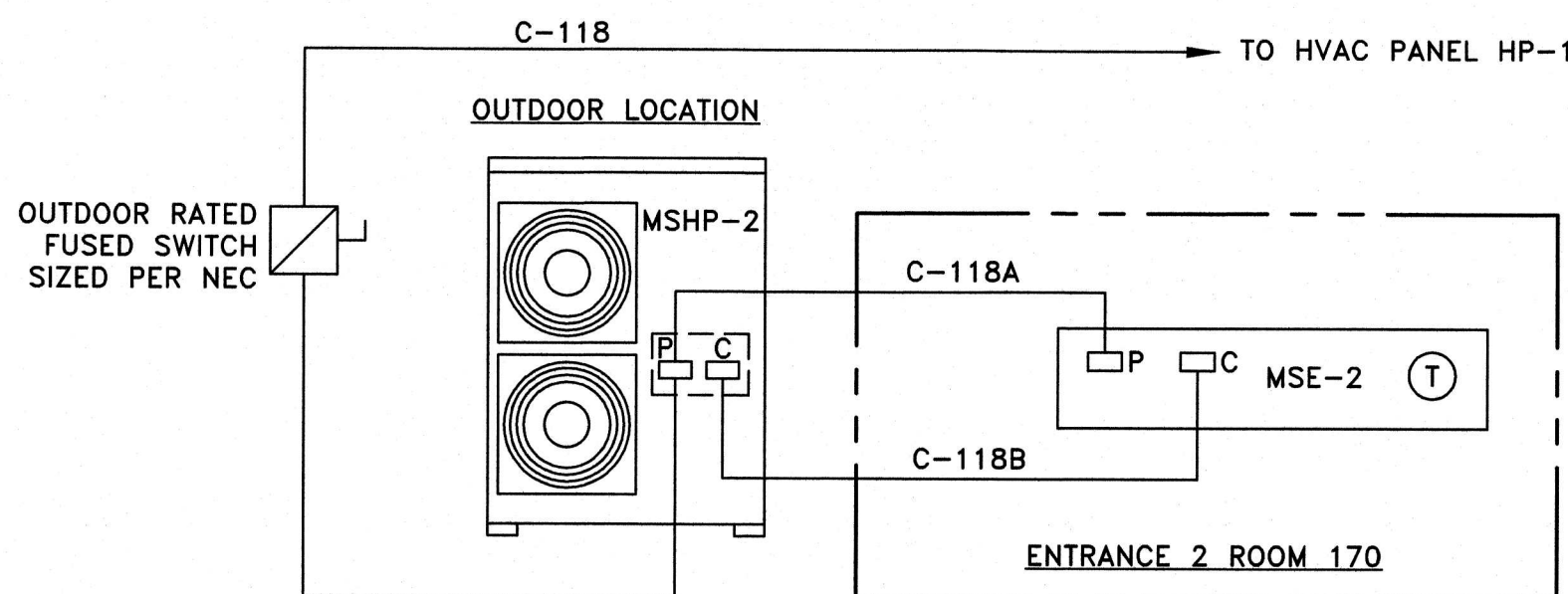
RECEPTACLE BLOCK DIAGRAM (TYPICAL)

SCALE: NOT TO SCALE



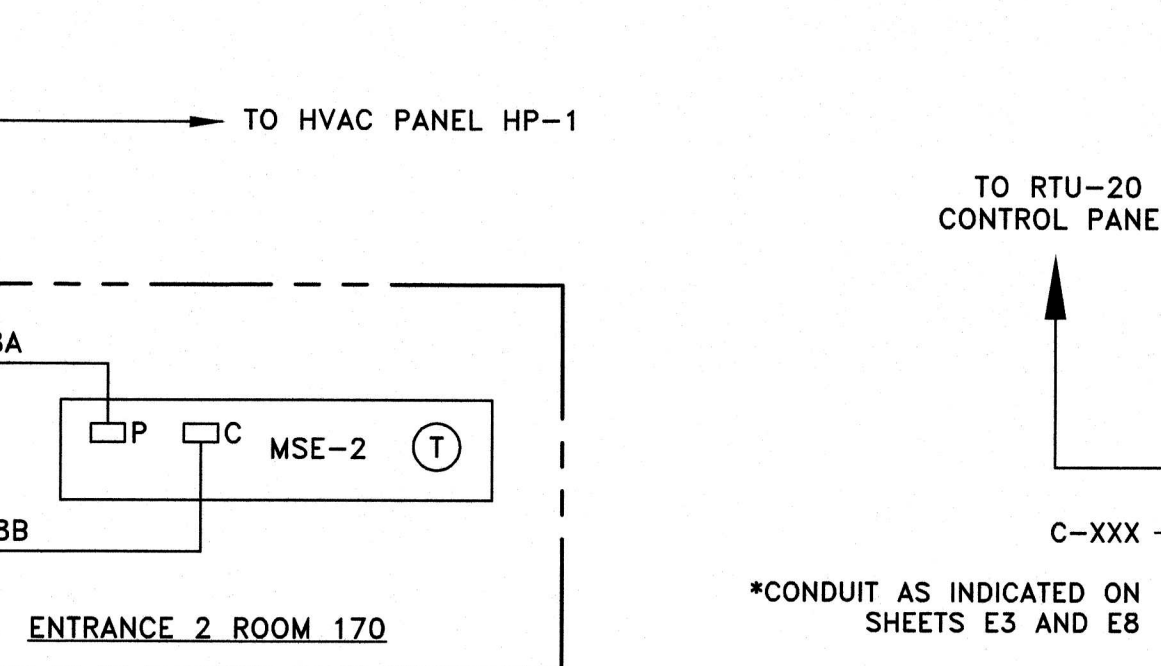
NETWORK PORT BLOCK DIAGRAM (TYPICAL)

SCALE: NOT TO SCALE



HVAC UNITS MSHP-2 AND MSE-2 ELECTRICAL BLOCK DIAGRAM

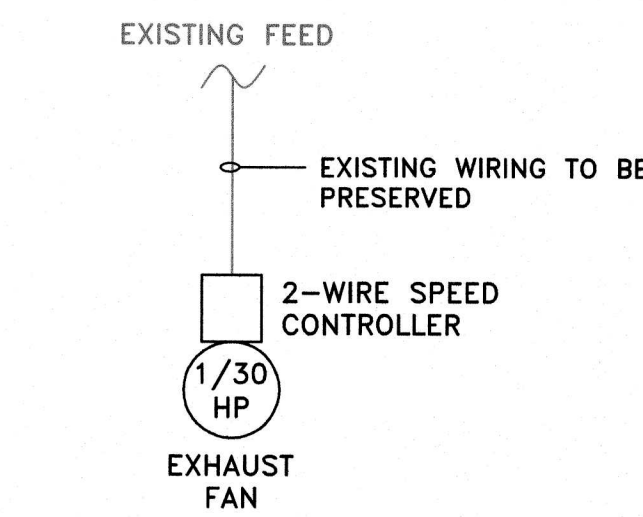
SCALE: NOT TO SCALE



VAV BOX BLOCK DIAGRAM (TYPICAL 4)

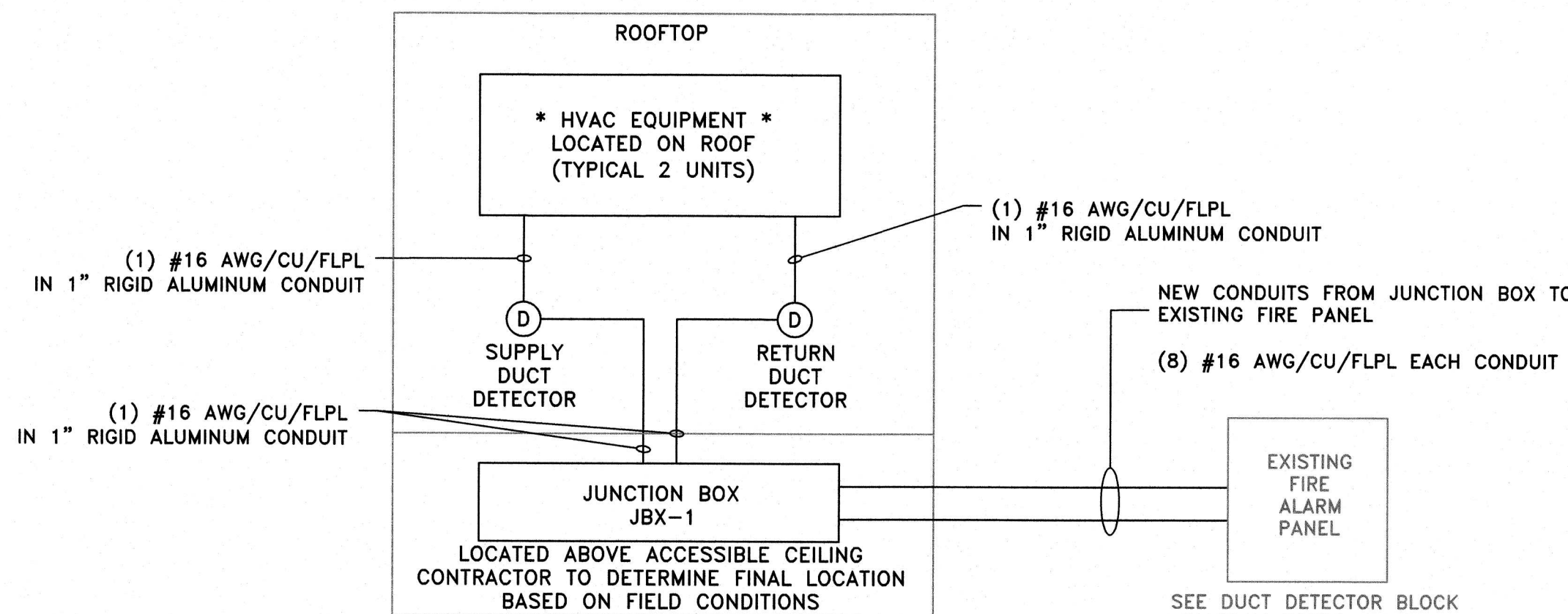
SCALE: NOT TO SCALE

** VAV-148 SHALL HAVE BOTH A THERMOSTAT AND CARBON DIOXIDE DETECTOR. VAV-152,154,164,168 SHALL HAVE ONLY A THERMOSTAT.



EXHAUST FAN EF-30 BLOCK DIAGRAM

SCALE: NOT TO SCALE



HVAC EQUIPMENT DUCT DETECTORS ELECTRICAL BLOCK DIAGRAM (TYPICAL 2 UNITS)

SCALE: NOT TO SCALE

DUCT DETECTOR BLOCK DIAGRAM NOTES:

- SEE MECHANICAL SPECIFICATIONS AND PLANS FOR DUCT DETECTORS DETAILS AND REQUIREMENTS.
- SEE SHEETS E1 AND E3 FOR SPECIFIC EQUIPMENT AND PANEL LOCATIONS.
- CONTRACTOR TO COORDINATE WITH OWNER'S FIRE AND REPRESENTATIVE ON ALL CONFIGURATIONS, CONNECTIONS, AND PROGRAMMING ASSOCIATED WITH NEW DUCT DETECTOR INSTALLATIONS. WORK INCLUDING INTERNAL FIRE PANEL CONNECTIONS, PROGRAMMING, TESTING, AND TRAINING TO BE COMPLETED BY OWNER'S FIRE AND SECURITY REPRESENTATIVE. CONTRACTOR TO PROVIDE WIRING, CONDUITS, AND DETECTORS AS INDICATED. CONTRACTOR TO COORDINATE WITH OWNER'S FIRE AND SECURITY REPRESENTATIVE TO ENSURE ALL DUCT DETECTORS ARE FUNCTIONAL AND INTEGRATED AS REQUIRED.

DATE: AUG. 2026		DESIGNED BY: JRN/KMG		DRAWN BY: KING		CHECKED BY: JRN/KMG		DATE: 8/10/2026	
PROJECT NO.: M-0410-0011-000		PROJECT LOCATION: WILLINGBORO TWP. BURLINGTON COUNTY NEW JERSEY		CLIENT: WILLINGBORO TOWNSHIP		PROJECT NO.: M-0410-0011-000		CONTRACT NO.: BID#8-2026	
RENOVATION TO THE SENIOR CENTER		ELECTRICAL BLOCK DIAGRAMS		SCALE: AS NOTED		FILE NO.:		E5	
KENNEDY CENTER		RENOVATION TO THE SENIOR CENTER		ELECTRICAL BLOCK DIAGRAMS		SCALE: AS NOTED		E5	
WILLINGBORO TOWNSHIP		BURLINGTON COUNTY		NEW JERSEY		MOUNT HOLLY, N.J.		200 HIGH STREET	
WILLIAM R. LONG, P.E.		ANITA S. ARADHYA, R.A.		LIC. 33012		LIC. 18769		MOUNT HOLLY, N.J.	
WILLIAM R. LONG		ANITA S. ARADHYA		LIC. 33012		LIC. 18769		MOUNT HOLLY, N.J.	
APPROVED		APPROVED		APPROVED		APPROVED		APPROVED	
9.23.26		9.23.26		9.23.26		9.23.26		9.23.26	
William R. Long		Anita S. Aradhya		Professional Engineer		Professional Engineer		Professional Engineer	
NEW JERSEY LICENSE NO. 33012		NEW JERSEY LICENSE NO. 18769		NEW JERSEY LICENSE NO. 33012		NEW JERSEY LICENSE NO. 18769		NEW JERSEY LICENSE NO. 33012	

PANEL DESIGNATION	EXISTING PANEL H4A
SERVICE	277/480V, 3ø, 4 WIRE
MOUNTING	SURFACE
MAINS	
FEED	FED FROM BOILER ROOM SWITCHBOARD
BUS MATERIAL	EXISTING

GROUND BUS	EXISTING
SHORT CIRCUIT RATING	EXISTING
ENCLOSURE TYPE	EXISTING
LOCATION	ELECTRICAL ROOM
MAIN	90A M.L.O.
VENDOR	GENERAL ELECTRIC

USE/DESCRIPTION	WIRE TYPE	WIRE SIZE	LOAD WATTS	BKR SIZE	CKT #
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CKT #	BKR SIZE	LOAD WATTS	WIRE SIZE	WIRE TYPE	USE/DESCRIPTION
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SOUTH HALL LITES	E	E	E	20A	1		2	20A	E	E	E	CLASSROOMS ALL PURPOSE 1
CED	E	E	E	20A	3		4	20A	E	E	E	LIBRARY
TEACHERS' WORKROOM & OFFICES	E	E	E	20A	5		6	20A	E	E	E	LIBRARY
ALL PURPOSE 2	E	E	E	20A	7		8	20A	E	E	E	UNKNOWN
HALL LITES	E	E	E	20A	9		10	20A	E	E	E	NEW CAFETERIA LITES
CAFETERIA LITES	E	E	E	20A	11		12	20A	E	E	E	UNKNOWN
CAFETERIA LITES	E	E	E	20A	13		14	20A	E	E	E	UNKNOWN
CAFETERIA LITES	E	E	E	20A	15		16	20A	E	E	E	UNKNOWN
CAFETERIA LITES	E	E	E	20A	17		18	20A	E	E	E	UNKNOWN
ROOF A/C LRC	E	E	E	50A	19		20	15A	E	E	E	2-HP MOTOR FAN RM
MOTOR PENT HOUSE (GUIDANCE)	E	E	E	15A	21		22	15A	E	E	E	FAN E 13 CAFE
MOTOR PENT HOUSE (GUIDANCE)	E	E	E	15A	23		24	70A	E	E	E	1STON ROOF TOP UNIT (ADMINISTRATION)
SPACE	--	--	--	--				--	--	--	--	SPACE
SPACE	--	--	--	--				--	--	--	--	SPACE
SPACE	--	--	--	--								
SPACE	--	--	--	--			26	90A	E	E	E	MAIN CIRCUIT BREAKER
SPACE	--	--	--	--				--	--	--	--	SPACE
SPACE	--	--	--	--				--	--	--	--	SPACE

EXISTING PANEL H4A NOTES:

1. SEE SHEET EO FOR ELECTRICAL KEY PLAN AND GENERAL ELECTRICAL NOTES.
2. NEW PANEL H4A IS TO BE FURNISHED AND INSTALLED IN PLACE OF EXISTING PANEL H4A TO BE DEMOLISHED.
3. CONTRACTOR SHALL TRACE ALL CIRCUITS TO THEIR SOURCE AND DETERMINE IN COORDINATION WITH THE OWNER, THE ENGINEER, AND THE ARCHITECT IF THE EXISTING LOAD IS IN USE. IF THE CIRCUIT IS IN USE, THE CONTRACTOR SHALL CONFIRM INTEGRITY OF EXISTING WIRING TO REMAIN AND RECONNECT TO NEW PANEL H4A. IF EXISTING CIRCUIT IS TO BE DEMOLISHED, CONTRACTOR SHALL DEMOLISH TO ITS SOURCE.

PANEL DESIGNATION	PANEL H4B
SERVICE	480/277V, 3ø, 4 WIRE
MOUNTING	SURFACE
WAINS	
FEED	FED FROM PANEL H4A
BUS MATERIAL	COPPER

GROUND BUS	COPPER
SHORT CIRCUIT RATING	42,000 AIC
ENCLOSURE TYPE	NEMA 1
LOCATION	UTILITY ROOM 148A
MAIN	100A CIRCUIT BREAKER
VENDOR	SIEMENS OR EQUIVALENT

USE/DESCRIPTION	WIRE TYPE	WIRE SIZE	LOAD WATTS	BKR SIZE	CKT #
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CKT #	BKR SIZE	LOAD WATTS	WIRE SIZE	WIRE TYPE	USE/DESCRIPTION
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OUTSIDE LITES	E	E	E	E	20A	1					2	20A	E	E	E	E	OUTSIDE LITES
OUTSIDE LITES	E	E	E	E	20A	3					4	20A	E	E	E	E	OUTSIDE LITES
OUTSIDE LITES	E	E	E	E	20A	5					6	20A	E	E	E	E	OUTSIDE LITES
OUTSIDE LITES	E	E	E	E	20A	7					8	20A	E	E	E	E	OUTSIDE LITES
OUTSIDE LITES	E	E	E	E	20A	9					10	20A	E	E	E	E	OUTSIDE LITES
CAFETERIA LITES	E	E	E	E	20A	11					12	20A	E	E	E	E	CAFETERIA LITES
CAFETERIA LITES	E	E	E	E	20A	13					14	20A	E	E	E	E	CAFETERIA LITES
CAFETERIA LITES	E	E	E	E	20A	15					16	20A	E	E	E	E	CAFETERIA LITES
CAFETERIA LITES	E	E	E	E	20A	17					18	20A	E	E	E	E	CAFETERIA LITES
CHILD AREA 148 LITES	XHHW	12	332.8	20A	19						20	20A	392	12	XHHW	STUDY/LOUNGE 152B & CORRIDOR 169 LITES	
STUDY/LOUNGE 152A & CORRIDOR 143 LITES	XHHW	12	490	20A	21						22	20A	367.5	12	XHHW	STUDY/LOUNGE 163B & CORRIDOR 169 LITES	
STUDY/LOUNGE 152A & CORRIDOR 143 LITES	XHHW	12	343	20A	23						24	20A	433.2	12	XHHW	STUDY/LOUNGE 153 LITES	
PODCAST STUDIO 156 LITES	XHHW	12	332.8	20A	25						26	20A	431.6	12	XHHW	STUDY/LOUNGE 153 LITES	
EXTERIOR WALL/BOLLARD LITES	XHHW	12	157.8	20A	27						28	20A	136.4	12	XHHW	EXTERIOR WALL/BOLLARD LITES	
OFFICES 154,154A,162,163; WORK AREA 155; CORRECT 150; & TRAINING 151 LITES	XHHW	12	460.8	20A	29						30	20A	E	12	XHHW	WORK AREAS 164,157; OFFICE 162; BREAK ROOM LITES	
CONFERENCE ROOM 145 LITES	XHHW	12	307.2	20A	31						32	20A	307.2	12	XHHW	COMPUTER ROOM 168 LITES	
WOMENS ROOM 144; UTILITY ROOM 148A; ELEC. ROOM & STORAGE LITES	XHHW	12	201.5	20A	33						34	20A	-	-	-	SPARE	
SPARE	-	-	-	-	20A	35					36	20A	-	-	-	SPARE	

NEW PANEL H4B NOTES:

1. SEE SHEET EO FOR ELECTRICAL KEY PLAN AND GENERAL ELECTRICAL NOTES.
2. NEW PANEL H4B IS TO BE FURNISHED AND INSTALLED IN NEW UTILITY ROOM 148A TO REPLACE EXISTING 'BROWSING & OUTSIDE LITES' PANEL LOCATED IN EXISTING ELECTRICAL ROOM. CONTRACTOR SHALL FURNISH AND INSTALL NEW JUNCTION BOX IN EXISTING ELECTRICAL ROOM TO EXTEND ANY EXISTING LOADS TO REMAIN.
3. CONTRACTOR SHALL TRACE CIRCUIT TO ITS SOURCE AND DETERMINE IN COORDINATION WITH THE OWNER, THE ENGINEER, AND THE ARCHITECT IF THE EXISTING LOAD IS IN USE. IF THE CIRCUIT IS IN USE, THE CONTRACTOR SHALL CONFIRM INTEGRITY OF EXISTING WIRING TO REMAIN AND RECONNECT TO NEW PANEL H4B. IF EXISTING CIRCUIT IS TO BE DEMOLISHED, CONTRACTOR SHALL DEMOLISH TO ITS SOURCE.
4. FINAL PANEL SCHEDULE TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR AFTER EACH CIRCUIT IS TRACED AND DETERMINED TO REMAIN OR TO BE DEMOLISHED. CONTRACTOR TO SUBMIT FINAL PANEL SCHEDULE TO THE ENGINEER FOR APPROVAL, ALONG WITH A REPORT OF THE RESULTS OF TRACING THE EXISTING CIRCUITS.

PANEL DESIGNATION	PANEL H4A
SERVICE	277/480V, 3Ø, 4 WIRE
MOUNTING	SURFACE
MAINS	
FEED	FED FROM BOILER ROOM SWITCHBOARD
BUS MATERIAL	COPPER

GROUND BUS	COPPER
SHORT CIRCUIT RATING	42,000 AIC
ENCLOSURE TYPE	NEMA 1
LOCATION	ELECTRICAL ROOM
MAIN	175A CIRCUIT BREAKER
VENDOR	SIEMENS OR EQUIVALENT

USE/DESCRIPTION	WIRE TYPE	WIRE SIZE	LOAD WATTS	BKR SIZE	CKT #
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CKT #	BKR SIZE	LOAD WATTS	WIRE SIZE	WIRE TYPE	USE/DESCRIPTION
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SOUTH HALL LITES	E	E	E	20A	1		2	20A	E	E	E	CLASSROOMS ALL PURPOSE 1
CED	E	E	E	20A	3		4	20A	E	E	E	LIBRARY
TEACHERS' WORKROOM & OFFICES	E	E	E	20A	5		6	20A	E	E	E	LIBRARY
ALL PURPOSE 2	E	E	E	20A	7		8	20A	E	E	E	UNKNOWN
HALL LITES	E	E	E	20A	9		10	20A	E	E	E	NEW CAFETERIA LITES
CAFETERIA LITES	E	E	E	20A	11		12	20A	E	E	E	UNKNOWN
CAFETERIA LITES	E	E	E	20A	13		14	20A	E	E	E	UNKNOWN
CAFETERIA LITES	E	E	E	20A	15		16	20A	E	E	E	UNKNOWN
CAFETERIA LITES	E	E	E	20A	17		18	20A	E	E	E	UNKNOWN
SPACE	-	-	-	-	19		20	20A	10K	10	XH*W	VAN-152
SPACE	-	-	-	-	21		22					
SPACE	-	-	-	-	23		24					
ROOF A/C UNIT	E	E	E	50A	25		26	15A	E	E	E	2-HP MOTOR FAN RM
					27		28					
					29		30					
MOTOR PENT HOUSE (GUIDANCE)	E	E	E	15A	31		32	15A	E	E	E	FAN E-13 CAFE
					33		34					
					35		36					
MOTOR PENT HOUSE (GUIDANCE)	E	E	E	15A	37		38	70A	E	E	E	15 TON ROOF TOP UNIT (ADMINISTRATION)
					39	40						
					41	42						
TRANSFORMER L4T	XH*W	3	50000**	100A	43	44	100A	*	3	XH*W	PANEL 14B	
					45	46						
					47	48						

NEW PANEL H4A NOTES:

1. SEE SHEET E0 FOR ELECTRICAL KEY PLAN AND GENERAL ELECTRICAL NOTES.
 2. NEW PANEL H4A IS TO BE FURNISHED AND INSTALLED IN PLACE OF EXISTING PANEL H4A TO BE DEMOLISHED.
 3. CONTRACTOR SHALL TRACE ALL EXISTING CIRCUITS TO THEIR SOURCE AND DETERMINE IN COORDINATION WITH THE OWNER, THE ENGINEER, AND THE ARCHITECT IF THE EXISTING LOAD IS IN USE. IF THE CIRCUIT IS IN USE, THE CONTRACTOR SHALL CONFIRM INTEGRITY OF EXISTING WIRING TO REMAIN AND RECONNECT TO NEW PANEL H4A. IF EXISTING CIRCUIT IS TO BE DEMOLISHED, CONTRACTOR SHALL DEMOLISH TO ITS SOURCE.
 4. FINAL PANEL SCHEDULE TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR AFTER EACH CIRCUIT IS TRACED AND DETERMINED TO REMAIN OR TO BE DEMOLISHED. CONTRACTOR TO SUBMIT FINAL PANEL SCHEDULE TO THE ENGINEER FOR APPROVAL, ALONG WITH A REPORT OF THE RESULTS OF TRACING THE EXISTING CIRCUITS.
- * ELECTRICAL LOAD OF PANEL H4B SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR BASED ON EXISTING CONDITIONS TO REMAIN AND INSTALLED LIGHTING LOADS.
- ** INDICATED ELECTRICAL LOAD IS AN ESTIMATE BASED ON FIELD OBSERVATION OF EXISTING EQUIPMENT TO REMAIN.

FILE NO.:	SHEET E6	KENNEDY CENTER RENOVATION TO THE SENIOR CENTER	CLIENT: WILLINGBORO TOWNSHIP	DATE: AUG. 2026 DESIGNED BY: JRN/KMG CHECKED BY: KMG	Tri-State Architects, P.C. / Alaimo Group	REVISIONS	DATE	BY	
		ELECTRICAL SCHEDULES 1 OF 3	PROJECT LOCATION: WILLINGBORO TWP. BURLINGTON COUNTY NEW JERSEY	PROJECT NO.: IM-1410-0011-000 CHECKED BY: KMG CONTRACT NO.: BID#6-2026	WILLIAM R. LONG, P.E. ANITA S. ARADHYA, R.A.	LIC. 33012 LIC. 18769			
		SCALE: NONE			200 HIGH STREET MOUNT HOLLY, N.J.				
						Anita S. Aradhya REGISTERED ARCHITECT NEW JERSEY LICENSE NO. 18769		William R. Long PROFESSIONAL ENGINEER NEW JERSEY LICENSE NO. 33012	

PANEL DESIGNATION	PANEL L4A
SERVICE	120/208V, 3ø, 4 WIRE
MOUNTING	SURFACE
MAINS	
FEED	FED FROM H4A VIA 45KVA TRANSFORMER
BUS MATERIAL	COPPER

GROUND BUS	COPPER
SHORT CIRCUIT RATING	EXISTING
ENCLOSURE TYPE	NEMA 1
LOCATION	EXISTING ELECTRICAL ROOM
MAIN	125A M.L.O.
VENDOR	GENERAL ELECTRIC

USE/DESCRIPTION	WIRE TYPE	WIRE SIZE	LOAD WATTS	BKR SIZE	CKT #
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PENTHOUSE LITES	E	E	E	20A	1
LRC	E	E	E	20A	3
PARAGON COMPUTERS	E	E	E	20A	5
PARAGON AREA	E	E	E	20A	7
LRC SUB-PANEL	E	E	E	100A	9
EXHAUST FAN E-14	E	E	E	20A	13
UNIT HEATER HALL WEST	E	E	E	20A	15
UNIT HEATER ENTRANCE WEST	E	E	E	20A	17
EXHAUST FAN E-29 -> E-31	E	E	E	20A	19
LRC SADO OUTLET	E	E	E	20A	21
UNKNOWN	E	E	E	20A	23

CKT #	BKR SIZE	LOAD WATTS	WIRE SIZE	WIRE TYPE	USE/DESCRIPTION
-------	----------	------------	-----------	-----------	-----------------

2	20A	E	E	E	GREEN ROOM
4	20A	E	E	E	UNKNOWN
6	20A	E	E	E	PARAGON A/C
8	20A	E	E	E	OLD TEACHER WORK AREA
10	20A	E	E	E	LRC WALL OUTLETS
12	20A	E	E	E	CAFE
14	20A	E	E	E	OUTSIDE LITE CLOCK (LB) BOX
16	20A	E	E	E	CAKE MACHINE
18	20A	E	E	E	UNIT HEATER ENTRANCE EAST
20	20A	E	E	E	CAFE OUTLETS
22	20A	E	E	E	CAFE RECEPT. WALL ONLY
24	20A	E	E	E	UNKNOWN

EXISTING PANEL L4A NOTES:

- SEE SHEET E0 FOR ELECTRICAL KEY PLAN AND GENERAL ELECTRICAL NOTES.
- NEW PANEL L4A IS TO BE FURNISHED AND INSTALLED IN PLACE OF EXISTING PANEL L4A TO BE DEMOLISHED.
- CONTRACTOR SHALL TRACE ALL CIRCUITS TO THEIR SOURCE AND DETERMINE IN COORDINATION WITH THE OWNER, THE ENGINEER, AND THE ARCHITECT IF THE EXISTING LOAD IS IN USE. IF THE CIRCUIT IS IN USE, THE CONTRACTOR SHALL CONFIRM INTEGRITY OF EXISTING WIRING TO REMAIN AND RECONNECT TO NEW PANEL LRC. IF EXISTING CIRCUIT IS TO BE DEMOLISHED, CONTRACTOR SHALL DEMOLISH TO ITS SOURCE.

PANEL DESIGNATION	EXISTING PANEL LRC
SERVICE	120/208V, 1ø, 3 WIRE
MOUNTING	SURFACE
MAINS	
FEED	FED FROM PANEL L4A
BUS MATERIAL	COPPER

GROUND BUS	COPPER
SHORT CIRCUIT RATING	10,000 AIC
ENCLOSURE TYPE	NEMA 1
LOCATION	EXISTING WORK ROOM
MAIN	100A M.L.O.
VENDOR	SIEMENS

USE/DESCRIPTION	WIRE TYPE	WIRE SIZE	LOAD WATTS	BKR SIZE	CKT #
-----------------	-----------	-----------	------------	----------	-------

LRC CPU	E	E	E	20A	1
LRC CPU	E	E	E	20A	3
LRC CPU	E	E	E	20A	5
LRC CPU	E	E	E	20A	7
STOVE	E	E	E	50A	9
PRINTER	E	E	E	20A	13
LRC RACP	E	E	E	20A	17
SPACE	-	-	-	-	19

CKT #	BKR SIZE	LOAD WATTS	WIRE SIZE	WIRE TYPE	USE/DESCRIPTION
-------	----------	------------	-----------	-----------	-----------------

2	20A	E	E	E	LRC CPU
4	20A	E	E	E	LRC CPU
6	20A	E	E	E	LRC CPU
8	20A	E	E	E	LOWER LRC MEETING #4
10	20A	E	E	E	COMPUTER ROOM QUAD
12	20A	E	E	E	ICE MAKER
14	20A	E	E	E	RECEPT. JILLS & DONS OFFICE
16	20A	E	E	E	PRINTER
18	20A	E	E	E	CP1
20	-	-	-	-	SPACE

EXISTING PANEL LRC NOTES:

- SEE SHEET E0 FOR ELECTRICAL KEY PLAN AND GENERAL ELECTRICAL NOTES.
- NEW PANEL LRC IS TO BE FURNISHED AND INSTALLED IN PLACE OF EXISTING PANEL LRC TO BE DEMOLISHED.
- CONTRACTOR SHALL TRACE ALL CIRCUITS TO THEIR SOURCE AND DETERMINE IN COORDINATION WITH THE OWNER, THE ENGINEER, AND THE ARCHITECT IF THE EXISTING LOAD IS IN USE. IF THE CIRCUIT IS IN USE, THE CONTRACTOR SHALL CONFIRM INTEGRITY OF EXISTING WIRING TO REMAIN AND RECONNECT TO NEW PANEL LRC. IF EXISTING CIRCUIT IS TO BE DEMOLISHED, CONTRACTOR SHALL DEMOLISH TO ITS SOURCE.

PANEL DESIGNATION	PANEL L4A
SERVICE	120/208V, 3ø, 4 WIRE
MOUNTING	SURFACE
MAINS	
FEED	FED FROM H4A VIA 75KVA TRANSFORMER LT4
BUS MATERIAL	COPPER

GROUND BUS	COPPER
SHORT CIRCUIT RATING	42,000 AIC
ENCLOSURE TYPE	NEMA 1
LOCATION	EXISTING ELECTRICAL ROOM
MAIN	225A CIRCUIT BREAKER
VENDOR	GENERAL ELECTRIC

USE/DESCRIPTION	WIRE TYPE	WIRE SIZE	LOAD WATTS	BKR SIZE	CKT #
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PENTHOUSE LITES	E	E	E	20A	1
LRC	E	E	E	20A	3
PARAGON COMPUTERS	E	E	E	20A	5
PARAGON AREA	E	E	E	20A	7
LRC SUB-PANEL	XHHW	3	E	100A	9
EXHAUST FAN E-14	E	E	E	20A	13
UNIT HEATER HALL WEST	E	E	E	20A	15
UNIT HEATER ENTRANCE WEST	E	E	E	20A	17
EXHAUST FAN E-29 -> E-31	E	E	E	20A	19
LRC SADO OUTLET	E	E	E	20A	21
UNKNOWN	E	E	E	20A	23
COMPUTER ROOM 168 RECEPTS.	XHHW	12	1440	20A	25
COMPUTER ROOM 168 RECEPTS.	XHHW	12	1440	20A	27
COMPUTER ROOM 168 RECEPTS.	XHHW	12	720	20A	29
WATER FOUNTAIN RECEPT.	XHHW	12	300	20A	31
WATER FOUNTAIN RECEPT.	XHHW	12	300	20A	33
RMS 154, 154A, 155, 162, 163 RECEPTS.	XHHW	12	1260	20A	35
RMS 154, 154A, 155, 162, 163 RECEPTS.	XHHW	12	1260	20A	37
RMS 154, 154A, 155, 162, 163 RECEPTS.	XHHW	12	1260	20A	39
RMS 150, 151 RECEPTS.	XHHW	12	1260	20A	41
RMS 150, 151 RECEPTS.	XHHW	12	1080	20A	43
WOMENS RM 144 GFCI RECEPTS.	XHHW	12	360	20A	45
WOMENS RM 144 HAND DRYER RECEPT.	XHHW	12	600	20A	47
HVAC PANEL HP-1	XHHW	4	17000	90A	49
					51
					53

CKT #	BKR SIZE	LOAD WATTS	WIRE SIZE	WIRE TYPE	USE/DESCRIPTION
-------	----------	------------	-----------	-----------	-----------------

2	20A	E	E	E	GREEN ROOM
4	20A	E	E	E	UNKNOWN
6	20A	E	E	E	PARAGON A/C
8	20A	E	E	E	OLD TEACHER WORK AREA
10	20A	E	E	E	LRC WALL OUTLETS
12	20A	E	E	E	CAFE
14	20A	E	E	E	OUTSIDE LITE CLOCK (LB) BOX
16	20A	E	E	E	CAKE MACHINE
18	20A	E	E	E	UNIT HEATER ENTRANCE EAST
20	20A	E	E	E	CAFE OUTLETS
22	20A	E	E	E	CAFE RECEPT. WALL ONLY
24	20A	E	E	E	UNKNOWN
26	20A	1260	12	XHHW	STUDY/LOUNGE AREA 153 RECEPTS.
28	20A	1080	12	XHHW	STUDY/LOUNGE AREA 153 RECEPTS.
30	20A	1620	12	XHHW	CHILDRENS AREA 148 RECEPTS.
32	20A	1440	12	XHHW	LIBRARY AREAS 152A/B, 156 RECEPTS.
34	20A	1440	12	XHHW	LIBRARY AREAS 152A/B, 156 RECEPTS.
36	20A	1620	12	XHHW	WORK AREAS 184E, 187 CHECK IN/OUT AREA 162 RECEPTS.
38	20A	1620	12	XHHW	WORK AREAS 164 & 167 CHECK IN/OUT AREA 162 RECEPTS.
40	20A	360	12	XHHW	BREAK ROOM GFCI RECEPTS.
42	20A	300	12	XHHW	BREAK ROOM REFRIDGERATOR
44	20A	540	12	XHHW	BREAK ROOM RECEPTS.
46	20A	300	12	XHHW	TEEN ROOM 145 PLATFORM LIFT
48	20A	300	12	XHHW	COMPUTER ROOM 168 PLATFORM LIFT
50	20A	1080	12	XHHW	PODCAST STUDIO 156 RECEPTS.
52	20A	900	12	XHHW	PODCAST STUDIO 156 RECEPTS.
54	20A	-	-	-	SPARE

NEW PANEL L4A NOTES:

- SEE SHEET E0 FOR ELECTRICAL KEY PLAN AND GENERAL ELECTRICAL NOTES.
- NEW PANEL L4A IS TO BE FURNISHED AND INSTALLED IN PLACE OF EXISTING PANEL L4A TO BE DEMOLISHED.
- CONTRACTOR SHALL TRACE ALL CIRCUITS TO THEIR SOURCE AND DETERMINE IN COORDINATION WITH THE OWNER, THE ENGINEER, AND THE ARCHITECT IF THE EXISTING LOAD IS IN USE. IF THE CIRCUIT IS IN USE, THE CONTRACTOR SHALL CONFIRM INTEGRITY OF EXISTING WIRING TO REMAIN AND RECONNECT TO NEW PANEL L4A. IF EXISTING CIRCUIT IS TO BE DEMOLISHED, CONTRACTOR SHALL DEMOLISH TO ITS SOURCE.
- FINAL PANEL SCHEDULE TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR AFTER EACH CIRCUIT IS TRACED AND DETERMINED TO REMAIN OR TO BE DEMOLISHED. CONTRACTOR TO SUBMIT FINAL PANEL SCHEDULE TO THE ENGINEER FOR APPROVAL, ALONG WITH A REPORT OF THE RESULTS OF TRACING THE EXISTING CIRCUITS.

PANEL DESIGNATION	PANEL LRC
SERVICE	120/208V, 1ø, 3 WIRE
MOUNTING	SURFACE
MAINS	
FEED	FED FROM PANEL L4A
BUS MATERIAL	COPPER

GROUND BUS	COPPER
SHORT CIRCUIT RATING	10,000 AIC
ENCLOSURE TYPE	NEMA 1
LOCATION	UTILITY ROOM 148A
MAIN	100A CIRCUIT BREAKER
VENDOR	SIEMENS OR EQUIVALENT

USE/DESCRIPTION	WIRE TYPE	WIRE SIZE	LOAD WATTS	BKR SIZE	CKT #
-----------------	-----------	-----------	------------	----------	-------

LRC CPU	E	E	E	20A	1
LRC CPU	E	E	E	20A	3
LRC CPU	E	E	E	20A	5
LRC CPU	E	E	E	20A	7
STOVE	E	E	E	50A	9
PRINTER	E	E	E	20A	13
LRC RACP	E	E	E	20A	17
SPARE	-	-	-	20A	19

CKT #	BKR SIZE	LOAD WATTS	WIRE SIZE	WIRE TYPE	USE/DESCRIPTION
-------	----------	------------	-----------	-----------	-----------------

2	20A	E	E	E	LRC CPU
4	20A	E	E	E	LRC CPU
6	20A	E	E	E	LRC CPU
8	20A	E	E	E	LOWER LRC MEETING #4
10	20A	E	E	E	COMPUTER ROOM QUAD
12	20A	E	E	E	ICE MAKER
14	20A	E	E	E	RECEPT. JILLS & DONS OFFICE
16	20A	E	E	E	PRINTER
18	20A	E	E	E	CP1
20	20A	-	-	-	SPARE

NEW PANEL LRC NOTES:

- SEE SHEET E0 FOR ELECTRICAL KEY PLAN AND GENERAL ELECTRICAL NOTES.
- NEW PANEL LRC IS TO BE FURNISHED AND INSTALLED IN PLACE OF EXISTING PANEL LRC TO BE DEMOLISHED.
- CONTRACTOR SHALL TRACE ALL CIRCUITS TO THEIR SOURCE AND DETERMINE IN COORDINATION WITH THE OWNER, THE ENGINEER, AND THE ARCHITECT IF THE EXISTING LOAD IS IN USE. IF THE CIRCUIT IS IN USE, THE CONTRACTOR SHALL CONFIRM INTEGRITY OF EXISTING WIRING TO REMAIN AND RECONNECT TO NEW PANEL LRC. IF EXISTING CIRCUIT IS TO BE DEMOLISHED, CONTRACTOR SHALL DEMOLISH TO ITS SOURCE.
- FINAL PANEL SCHEDULE TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR AFTER EACH CIRCUIT IS TRACED AND DETERMINED TO REMAIN OR TO BE DEMOLISHED. CONTRACTOR TO SUBMIT FINAL PANEL SCHEDULE TO THE ENGINEER FOR APPROVAL, ALONG WITH A REPORT OF THE RESULTS OF TRACING THE EXISTING CIRCUITS.

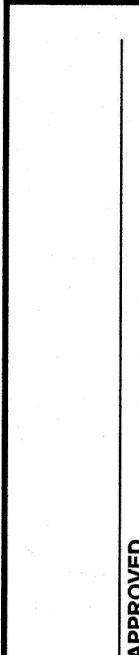
APPROVED



William R. Long

PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. 33012

APPROVED



Anita S. Aradhya

REGISTERED ARCHITECT
NEW JERSEY LICENSE NO. 18769

DATE: AUG. 2026

DESIGNED BY: JRN/KMG

DRAWN BY: KING

CHECKED BY: KING

DEPT. HEAD: JRN/KMG

CLIENT: KENNEDY CENTER
RENOVATION TO THE SENIOR CENTER

PROJECT LOCATION: WILLINGBORO TWP.
BURLINGTON COUNTY
NEW JERSEY

PROJECT NO.: M-0410-0011-000
CONTRACT NO.: BID#8-2026

SCALE: AS NOTED

WILLINGBORO TOWNSHIP

WILLIAM R. LONG, P.E.
ANITA S. ARADHYA, R.A.

LIC. 33012
LIC. 18769

MOUNT HOLLY, N.J.
200 HIGH STREET

BY: []

DATE: []

REVISIONS: []

100% DRAWINGS-8-10-2026

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PANEL DESIGNATION	HVAC PANEL HP-1
SERVICE	120/208V, 3Ø, 4 WIRE
MOUNTING	SURFACE
MAINS	
FEED	FED FROM PANEL L4A
BUS MATERIAL	COPPER

GROUND BUS	COPPER
SHORT CIRCUIT RATING	42,000 AIC
ENCLOSURE TYPE	NEMA 1
LOCATION	ELECTRICAL ROOM
MAIN	90A CIRCUIT BREAKER
VENDOR	SIEMENS OR EQUIVALENT

USE/DESCRIPTION	WIRE TYPE	WIRE SIZE	LOAD WATTS	BKR SIZE	CKT #		CKT #	BKR SIZE	LOAD WATTS	WIRE SIZE	WIRE TYPE	USE/DESCRIPTION
MOTORIZED DAMPER	XHHW	12	300	15A	1		2	15A	300	12	XHHW	MOTORIZED DAMPER
MOTORIZED DAMPER	XHHW	12	300	15A	3		4	15A	300	12	XHHW	MOTORIZED DAMPER
CUH-1	XHHW	12	300	15A	5		6	15A	300	12	XHHW	CUH-2
VAV-148	XHHW	10	5500	25A	7		8	15A	2500	12	XHHW	VAV-164
					9		10					
					11		12					
VAV-154	XHHW	12	4600	20A	13		14	15A	2500	12	XHHW	VAV-168
					15		16					
					17		18					
MSHP-2	XHHW	12	600	20A	19		20	15A	-	-	-	SPARE
					21		22					
SPARE	-	-	-	15A	23		24	15A	-	-	-	SPARE

NEW HVAC PANEL HP-1 NOTES:

1. SEE SHEET E0 FOR ELECTRICAL KEY PLAN AND GENERAL ELECTRICAL NOTES.

CONDUIT					CABLE	
NUMBER	SIZE	TYPE	FROM	TO	PHASE CONDUCTOR QUANTITY/SIZE	GROUND CONDUCTOR QUANTITY/SIZE
C-100	2"	EMT	PANEL H4A	PANEL H4B	(3) 2/0 AWG/CU/XHHW	(1) #2 AWG/CU/XHHW
C-101	1 1/2"	EMT	PANEL H4A	LIGHTING TRANSFORMER LT4	(3) #3 AWG/CU/XHHW	(1) #6 AWG/CU/XHHW
C-102	2 1/2"	EMT	LIGHTING TRANSFORMER LT4	PANEL L4A	(3) 4/0 AWG/CU/XHHW	(1) 1/0 AWG/CU/XHHW
C-103	1 1/2"	EMT	PANEL L4A	PANEL LRC	(3) #3 AWG/CU/XHHW	(1) #6 AWG/CU/XHHW
C-104	1 1/2"	EMT	PANEL L4A	EXISTING PANEL L4B	(3) #3 AWG/CU/XHHW	(1) #6 AWG/CU/XHHW
C-105	1 1/2"	EMT	PANEL L4A	HVAC PANEL HP-1	(3) #3 AWG/CU/XHHW	(1) #6 AWG/CU/XHHW
C-106	2"	RA	PANEL MDP	RTU-20	(3) #1 AWG/CU/XHHW	(1) #3 AWG/CU/XHHW
C-107	3/4"	EMT	HVAC PANEL HP-1	VAV-148	(3) #10 AWG/CU/XHHW	(1) #12 AWG/CU/XHHW
C-107A	3/4"	RA	VAV-148	RTU-20 CONTROL PANEL	MANUFACTURER REQUIRED CONTROL CABLE	- - -
C-108	3/4"	EMT	PANEL H4A	VAV-152	(3) #10 AWG/CU/XHHW	(1) #12 AWG/CU/XHHW
C-108A	3/4"	RA	VAV-152	RTU-20 CONTROL PANEL	MANUFACTURER REQUIRED CONTROL CABLE	- - -
C-109	3/4"	EMT	HVAC PANEL HP-1	VAV-154	(3) #12 AWG/CU/XHHW	(1) #12 AWG/CU/XHHW
C-109A	3/4"	RA	VAV-154	RTU-20 CONTROL PANEL	MANUFACTURER REQUIRED CONTROL CABLE	- - -
C-110	3/4"	EMT	HVAC PANEL HP-1	VAV-164	(3) #12 AWG/CU/XHHW	(1) #12 AWG/CU/XHHW
C-110A	3/4"	RA	VAV-164	RTU-20 CONTROL PANEL	MANUFACTURER REQUIRED CONTROL CABLE	- - -
C-111	3/4"	EMT	HVAC PANEL HP-1	VAV-168	(3) #12 AWG/CU/XHHW	(1) #12 AWG/CU/XHHW
C-111A	3/4"	RA	VAV-168	RTU-20 CONTROL PANEL	MANUFACTURER REQUIRED CONTROL CABLE	- - -
C-112	3/4"	EMT	HVAC PANEL HP-1	MOTORIZED DAMPER	(2) #12 AWG/CU/XHHW	(1) #12 AWG/CU/XHHW
C-113	3/4"	EMT	HVAC PANEL HP-1	MOTORIZED DAMPER	(2) #12 AWG/CU/XHHW	(1) #12 AWG/CU/XHHW
C-114	3/4"	EMT	HVAC PANEL HP-1	MOTORIZED DAMPER	(2) #12 AWG/CU/XHHW	(1) #12 AWG/CU/XHHW
C-115	3/4"	EMT	HVAC PANEL HP-1	MOTORIZED DAMPER	(2) #12 AWG/CU/XHHW	(1) #12 AWG/CU/XHHW
C-116	3/4"	EMT	HVAC PANEL HP-1	CABINET UNIT HEATER CUH-1	(2) #12 AWG/CU/XHHW	(1) #12 AWG/CU/XHHW
C-117	3/4"	EMT	HVAC PANEL HP-1	CABINET UNIT HEATER CUH-2	(2) #12 AWG/CU/XHHW	(1) #12 AWG/CU/XHHW
C-118	3/4"	RA	HVAC PANEL HP-1	OUTDOOR UNIT MSHP-2	(2) #12 AWG/CU/XHHW	(1) #12 AWG/CU/XHHW
C-118A	3/4"	RA	OUTDOOR UNIT MSHP-2	INDOOR UNIT MSE-2	(2) #12 AWG/CU/XHHW	(1) #12 AWG/CU/XHHW
C-118B	3/4"	RA	OUTDOOR UNIT MSHP-2	INDOOR UNIT MSE-2	MANUFACTURER REQUIRED CONTROL CABLE	- - -
C-119	3/4"	EMT	PANEL L4A	CONFERENCE ROOM 145 PLATFORM LIFT	(2) #12 AWG/CU/XHHW	(1) #12 AWG/CU/XHHW
C-120	3/4"	EMT	PANEL L4A	COMPUTER ROOM 168 PLATFORM LIFT	(2) #12 AWG/CU/XHHW	(1) #12 AWG/CU/XHHW
C-TSTAT	3/4"	EMT	HVAC EQUIPMENT AS INDICATED	THERMOSTAT	(1) THERMOSTAT CABLE	- - -

CONDUIT AND CABLE NOTES:

1. SEE SHEET E0 FOR ELECTRICAL KEY PLAN AND GENERAL ELECTRICAL NOTES.
2. SEE SHEETS E1-E4 FOR ELECTRICAL FLOOR PLANS, SHEET E5 FOR ELECTRICAL BLOCK DIAGRAMS, AND SHEETS E6-E7 FOR ELECTRICAL PANEL SCHEDULES.

EMT - ELECTRICAL METALLIC TUBING TYPE CONDUIT

RA - RIGID ALUMINUM CONDUIT

* METAL CLAD CABLING IS PERMITTED ABOVE ACCESSIBLE CEILINGS, EMT CONDUIT PAINTED TO MATCH SURFACE IS REQUIRED BELOW ACCESSIBLE CEILINGS

KENNEDY CENTER
RENOVATION TO THE SENIOR CENTER

ELECTRICAL SCHEDULES
3 OF 3

SCALE: AS NOTED

CLIENT: WILLINGBORO TOWNSHIP

PROJECT LOCATION:
WILLINGBORO TWP.
BURLINGTON COUNTY
NEW JERSEY

DATE: AUG. 2026
DESIGNED BY: JRN/KMG
DRAWN BY: KMG
CHECKED BY: JRN/KMG
DATE: 8/22/26

PROJECT NO.: M-0410-0011-000
CONTRACT NO.: BID#8-2026

SHEET
E8

FILE NO.:

APPROVED
Anita S. Aradhya
REGISTERED ARCHITECT
NEW JERSEY LICENSE NO. 18769

APPROVED
William R. Long
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. 33012

REVISIONS

DATE

BY

Tri-State Architects, P.C. / Alaimo Group

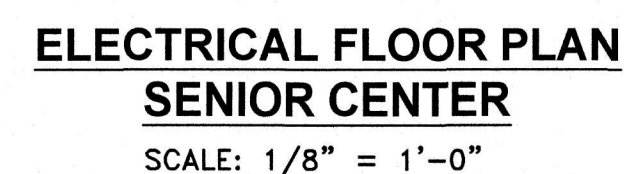
WILLIAM R. LONG, P.E.
LIC. 33012

ANITA S. ARADHYA, R.A.
LIC. 18769

200 HIGH STREET
MOUNT HOLLY, N.J.



NOT TO SCALE



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

ELECTRICAL CONSTRUCTION NOTES:

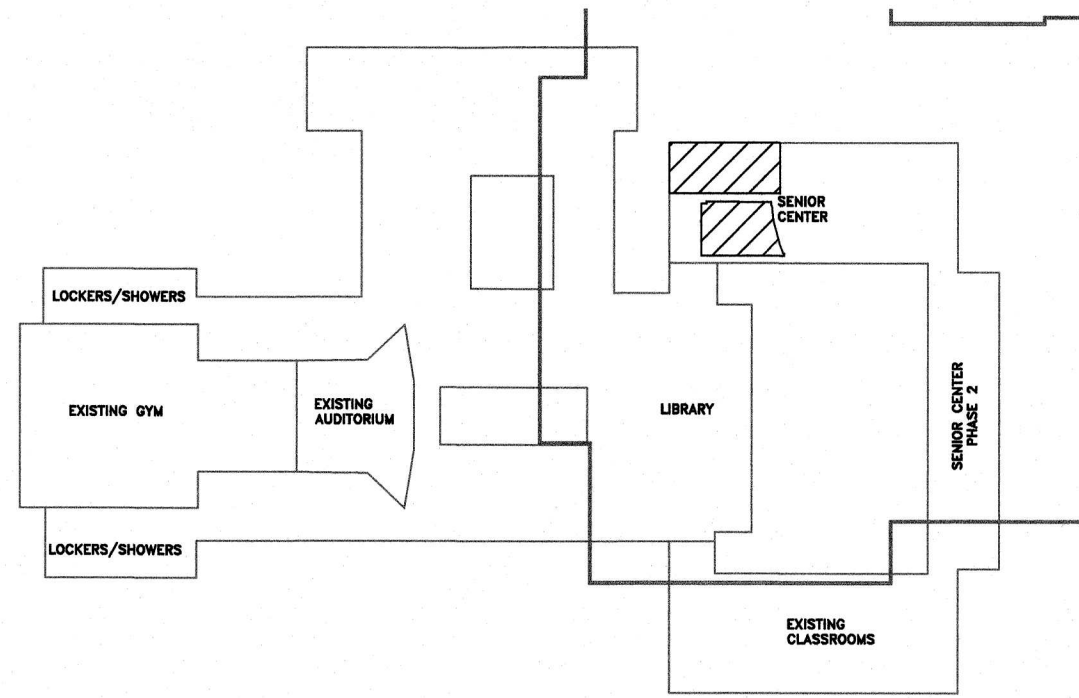
1. SEE SHEET EO FOR ELECTRICAL KEY PLAN AND GENERAL ELECTRICAL NOTES.
2. CONTRACTOR SHALL FURNISH AND INSTALL NEW RECEPTACLES AS INDICATED. CONTRACTOR TO COORDINATE WITH OWNER AND ARCHITECT ON ALL AESTHETIC DETAILS, INCLUDING BUT NOT LIMITED TO FINAL RECEPTACLE AND WALL PLATE COLOR, TO ENSURE FACILITY MEETS ARCHITECTURAL DESIGN INTENT.
3. CONTRACTOR SHALL RE-USE EXISTING CIRCUIT BREAKERS TO SUPPLY NEW RECEPTACLES AS INDICATED ON SHEET E15. CONTRACTOR IS RESPONSIBLE FOR TRACING EXISTING CIRCUITS ASSOCIATED WITH ROOMS 121, 122, AND 126 TO ENSURE THE ON SITE PANEL SCHEDULE IS ACCURATE. CONTRACTOR SHALL USE CIRCUITS MADE AVAILABLE BY DEMOLITION AS OUTLINED ON SHEET ED2 TO FEED NEW RECEPTACLES. CONTRACTOR IS RESPONSIBLE FOR FINAL PANEL SCHEDULE AND LOAD DISTRIBUTION BASED ON FIELD CONDITIONS AND INSTALLED EQUIPMENT.

LEGEND:

- | | |
|---|-----------------------------|
|  | NEW DUPLEX RECEPTACLE |
|  | NEW QUAD. RECEPTACLE |
|  | NEW TELECOMMUNICATIONS PORT |

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KEY PLAN
NOT TO SCALE

BILL OF MATERIALS KITCHEN RM 121 & CAFE RM 122				
ID	QUANT.	DESCRIPTION	MODEL	ELECTRICAL NOTES
1	1	FRYER, DEEP FAT, ELECTRIC, VENTLESS	WELLS WVAE-55F OR EQUIVALENT	DIRECT CONNECTION, 208V, 3Ø, 70.78A LOAD
2	1	GRIDDLE, ELECTRIC	WELLS G-23 OR EQUIVALENT	DIRECT CONNECTION, 208V, 3Ø, 66.61A LOAD
3	1	REFRIGERATOR, GRIDDLE STAND	CONTINENTAL D 36 GN OR EQUIVALENT	PLUG-AND-CORD CONNECTION, 120V 1Ø 20A RECEPTACLE, 2.5A LOAD
4	1	INDUCTION RANGE WITH OVEN	LANG MANUFACTURING R136S-ATE OR EQUIVALENT	DIRECT CONNECTION, 208V, 3Ø, 66.7A LOAD
5	1	EXHAUST HOOD	SEE MECHANICAL DRAWINGS	SEE SHEET E13 FOR ELECTRICAL DETAILS
6	1	WARMING AND HOLDING CABINET, MOBILE	CARTER HOFFMAN HL8-12 OR EQUIVALENT	PLUG-AND-CORD CONNECTION, 120V 1Ø 30A RECEPTACLE, 16.7A LOAD
7	1	CONVEYOR TOASTER	STAR MANUFACTURING QCS2-600H OR EQUIVALENT	PLUG-AND-CORD CONNECTION, 120V 1Ø 20A RECEPTACLE, 13.5A LOAD
8	1	TURBO CHEF, RAPID COOK	TURBO CHEF-RAPID COOK SERIES ENC-9600-601 OR EQUIVALENT	PLUG-AND-CORD CONNECTION, 208V 1Ø 30A RECEPTACLE, 21.03A LOAD
9	3	COFFEE MAKER	BLOOMFIELD COFFEE MAKER OR EQUIVALENT	PLUG-AND-CORD CONNECTION, 120V 1Ø 20A RECEPTACLE, 12.5A LOAD
10	1	UNDER-COUNTER WARE WASHER	HOBART US FOOD SERVICE LXEH-1 OR EQUIVALENT	PLUG-AND-CORD CONNECTION, 208V 3Ø 30A RECEPTACLE, 24.9A LOAD
11	1	UNDERSINK GREASE SEPARATOR	SEE MECHANICAL DRAWINGS	PLUG-AND-CORD CONNECTION, 120V 1Ø 20A RECEPTACLE, 10.2A LOAD
12	1	REACH-IN REFRIGERATOR	CONTINENTAL 2REN OR EQUIVALENT	PLUG-AND-CORD CONNECTION, 120V 1Ø 20A RECEPTACLE, 6.9A LOAD
13	1	REACH-IN FREEZER	CONTINENTAL 2FEN OR EQUIVALENT	PLUG-AND-CORD CONNECTION, 120V 1Ø 20A RECEPTACLE, 9.4A LOAD
14	1	DISPLAY REFRIGERATOR	CONTINENTAL D1RNGD OR EQUIVALENT	PLUG-AND-CORD CONNECTION, 120V 1Ø 20A RECEPTACLE, 7A LOAD
15	1	UNDERCOUNTER REFRIGERATOR	U-LINE CORPORATION U-ADA24RGLINT-00A OR EQUIVALENT	PLUG-AND-CORD CONNECTION, 120V 1Ø 20A RECEPTACLE, 1.2A LOAD
16	1	COMMERCIAL MICROWAVE	WINCO-EMW-100ST OR EQUIVALENT	PLUG-AND-CORD CONNECTION, 120V 1Ø 20A RECEPTACLE, 12A LOAD
17	1	ICE MAKER	— — — OR EQUIVALENT	PLUG-AND-CORD CONNECTION, 120V 1Ø 20A RECEPTACLE, XXA LOAD

CONDUIT					CABLE	
NUMBER	SIZE	TYPE	FROM	TO	PHASE CONDUCTOR QUANTITY/SIZE	GROUND CONDUCTOR QUANTITY/SIZE
C-1	1 1/2"	EMT	PANEL SH3	KITCHEN EQUIPMENT AS INDICATED	(3) #4 AWG/CU/XHHW	(1) #6 AWG/CU/XHHW
C-2	3/4"	EMT	PANEL SH3	UNDER-COUNTER WARE WASHER, EQUIPMENT ID 10	(3) #10 AWG/CU/XHHW	(1) #12 AWG/CU/XHHW
C-3	3/4"	EMT	PANEL AS INDICATED	KITCHEN EQUIPMENT AS INDICATED	(2) #10 AWG/CU/XHHW	(1) #12 AWG/CU/XHHW
C-4	3/4"	EMT	PANEL AS INDICATED	KITCHEN EQUIPMENT AS INDICATED	(2) #12 AWG/CU/XHHW	(1) #12 AWG/CU/XHHW

CONDUIT AND CABLE NOTES:

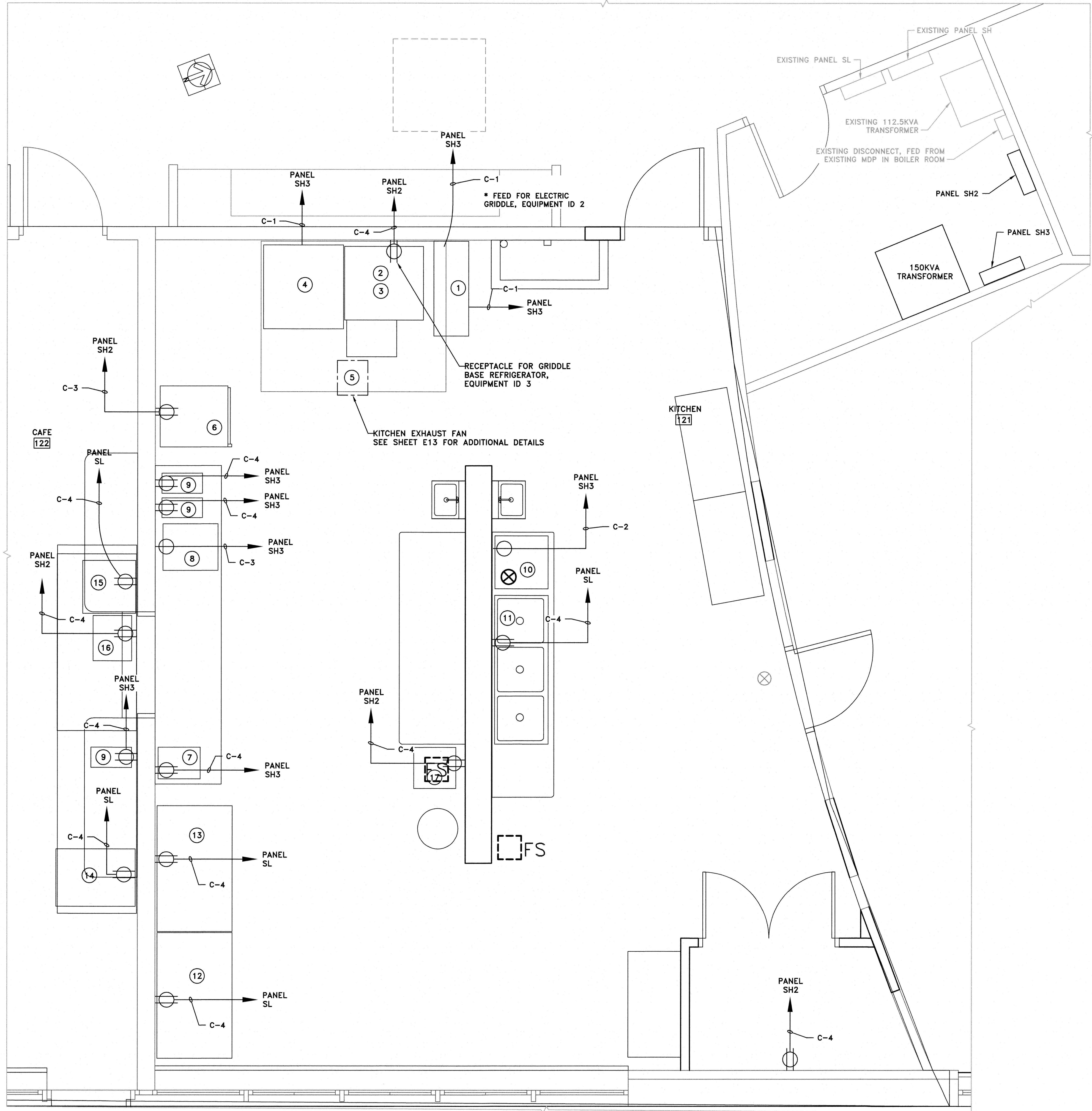
- SEE SHEET E0 FOR ELECTRICAL KEY PLAN AND GENERAL ELECTRICAL NOTES.
- SEE SHEETS E15-E16 FOR ELECTRICAL PANEL SCHEDULES.

EMT — ELECTRICAL METALLIC TUBING TYPE CONDUIT

* METAL CLAD CABLING IS PERMITTED ABOVE ACCESSIBLE CEILINGS, EMT CONDUIT PAINTED TO MATCH SURFACE IS REQUIRED BELOW ACCESSIBLE CEILINGS

ELECTRICAL CONSTRUCTION NOTES:

- SEE SHEET E0 FOR ELECTRICAL KEY PLAN AND GENERAL ELECTRICAL NOTES.
- CONTRACTOR SHALL FURNISH AND INSTALL NEW KITCHEN EQUIPMENT AS OUTLINED IN ARCHITECTURAL PLANS. CONTRACTOR SHALL FURNISH AND INSTALL NEW ELECTRICAL SUPPLY AS INDICATED, AND EPR MANUFACTURER REQUIREMENTS.



ELECTRICAL FLOOR PLAN
SENIOR CENTER KITCHEN AND CAFE EQUIPMENT
SCALE: 1/2" = 1'-0"

100% DRAWINGS-8-10-2026

APPROVED

William R. Long
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. 33012

APPROVED

Anita S. Aradhya
REGISTERED ARCHITECT
NEW JERSEY LICENSE NO. 18769

DATE: AUG. 2026

DESIGNED BY: JRN/KMG

DRAWN BY: A.A/KMG

CHECKED BY: JRN/KMG

DATE: 8/10/2026

CLIENT: KENNEDY CENTER
RENOVATION TO THE SENIOR CENTER

PROJECT NO.: M-0410-0011-000

PROJECT LOCATION: WILLINGBORO TWP.
BURLINGTON COUNTY
NEW JERSEY

SCALE: AS NOTED

WILLINGBORO TOWNSHIP

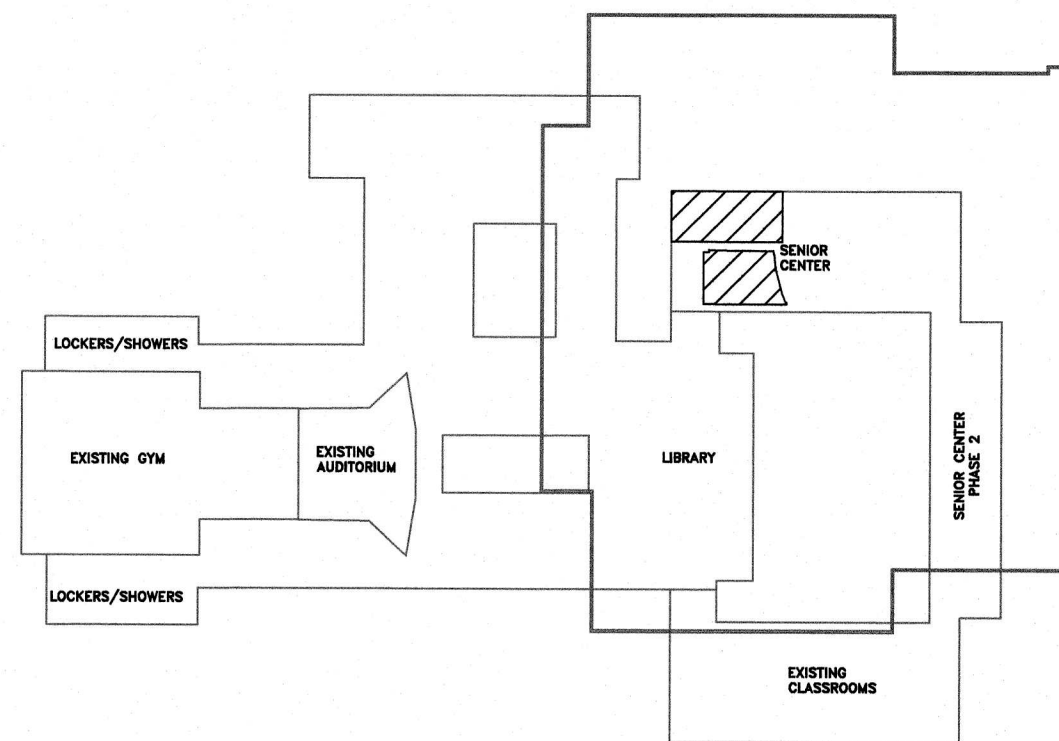
CONTRACT NO.: BID#8-2026

WILLIAM R. LONG, P.E.
LIC. 33012

ANITA S. ARADHYA, R.A.
LIC. 18769

MOUNT HOLLY, N.J.
200 HIGH STREET

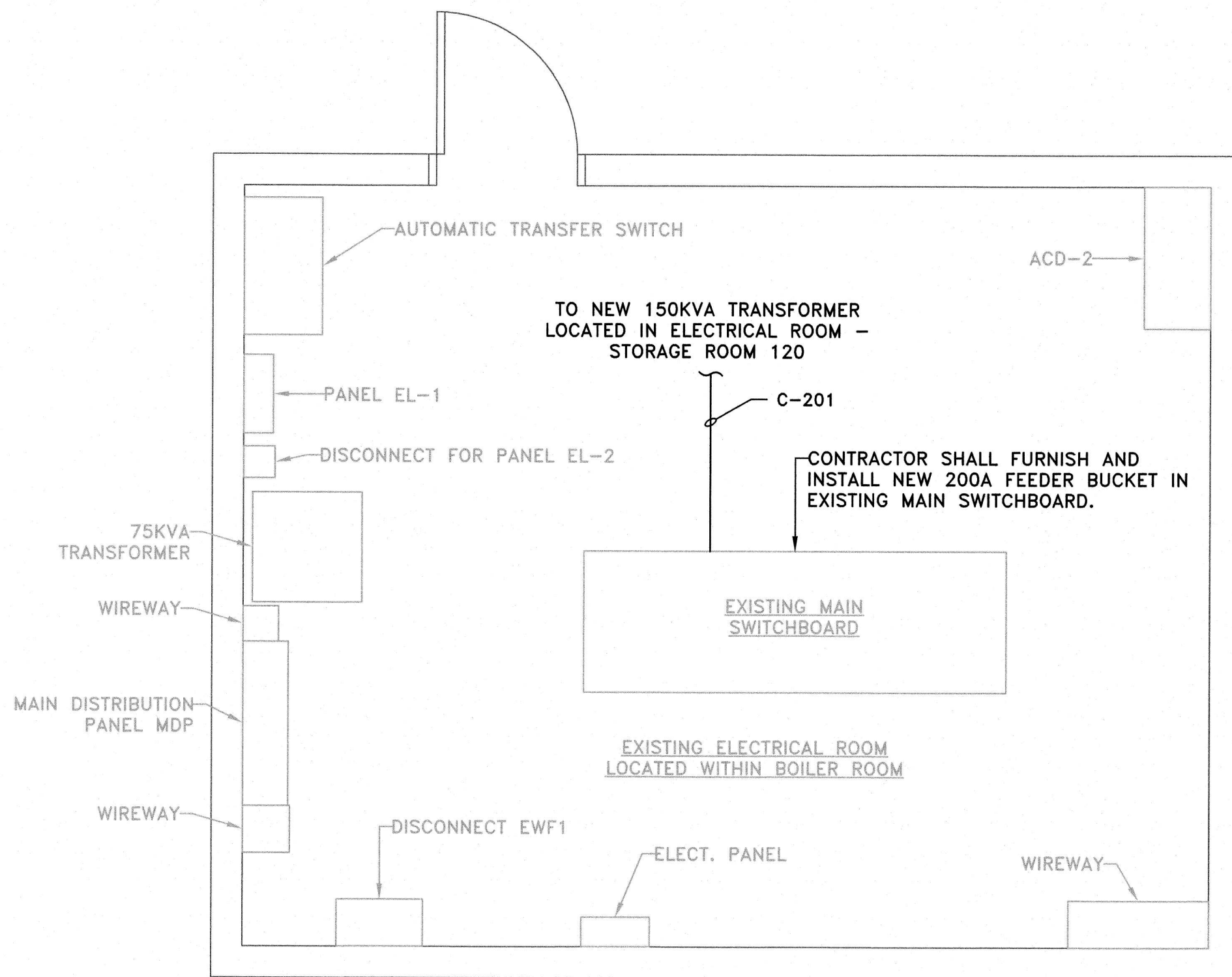
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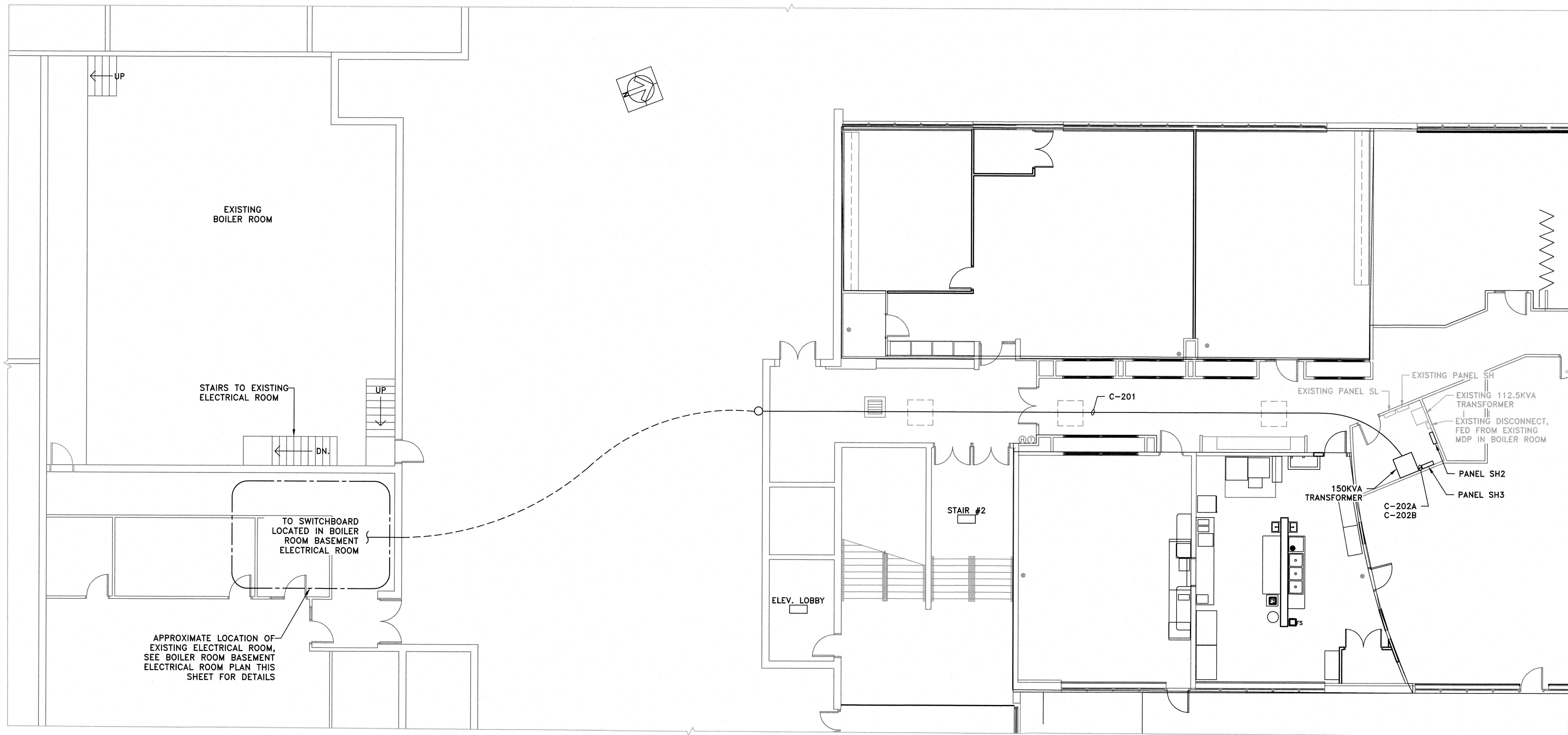
KEY PLAN
NOT TO SCALE

ELECTRICAL CONSTRUCTION NOTES:

1. SEE SHEET E0 FOR ELECTRICAL KEY PLAN AND GENERAL ELECTRICAL NOTES. SEE SHEETS E9 AND E10, ELECTRICAL FLOOR PLANS SENIOR CENTER 1 & 2 OF 3, FOR ADDITIONAL ELECTRICAL DETAILS.
2. CONTRACTOR SHALL ROUTE CONDUIT FROM EXISTING ELECTRICAL ROOM LOCATED IN EXISTING BOILER ROOM ALONG BUILDING EXTERIOR. CONTRACTOR IS RESPONSIBLE FOR FINAL CONDUIT ROUTING ACCORDING TO ALL RELEVANT CODES.
3. CONTRACTOR SHALL FURNISH AND INSTALL NEW 200AT, 3-POLE CIRCUIT BREAKER IN EXISTING SWITCHBOARD IN ORDER TO FEED NEW 150KVA TRANSFORMER.



BOILER ROOM BASEMENT ELECTRICAL ROOM PLAN
SENIOR CENTER
SCALE: 3/8" = 1'-0"

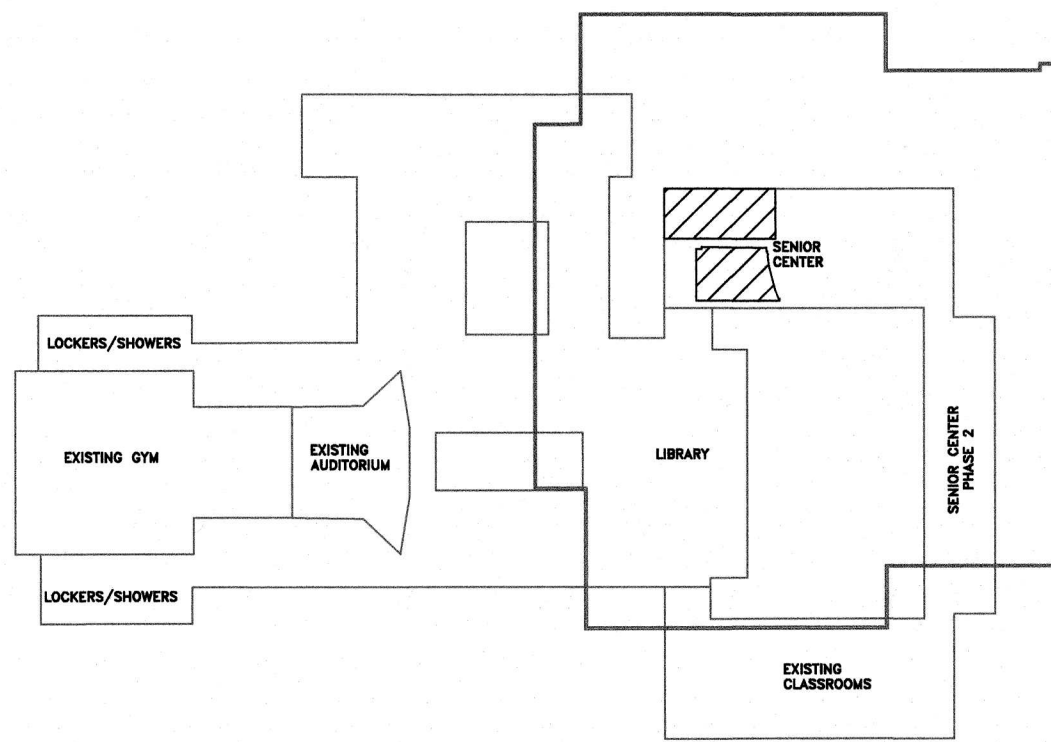


ELECTRICAL FLOOR PLAN
SENIOR CENTER
SCALE: 1/8" = 1'-0"

DATE: AUG. 2026 DESIGNED BY: JRN/KMG DRAWN BY: AAK/KMG CHECKED BY: JRN/KMG BEST COPY AVAILABLE		CLIENT: WILLINGBORO TOWNSHIP PROJECT NO.: M-0410-0011-000 PROJECT LOCATION: WILLINGBORO TWP. BURLINGTON COUNTY NEW JERSEY CONTRACT NO.: BID#5-2026		WILLINGBORO TOWNSHIP WILLIAM R. LONG, P.E. ANITA S. ARADHYA, R.A. 200 HIGH STREET MOUNT HOLLY, N.J.		REVISIONS		DATE	BY	APPROVED William R. Long PROFESSIONAL ENGINEER NEW JERSEY LICENSE NO. 33012 Anita S. Aradhya REGISTERED ARCHITECT NEW JERSEY LICENSE NO. 18769	
KENNEDY CENTER RENOVATION TO THE SENIOR CENTER		ELECTRICAL FLOOR PLAN SENIOR CENTER 3 OF 3		SCALE: AS NOTED		SHEET E11		FILE NO.:		100% DRAWINGS-8-10-2026	

Plotted: 9/22/2026 9:52 AM Last saved: 9/21/2026 4:03 PM File Name: M:\Projects\M0410001\Drawings\GLD-E9-E16-Electrical Plans Senior Center.dwg

- LEGEND:
- NEW SINGLE POLE LIGHT SWITCH WITH MOTION SENSOR
 - NEW THREE-WAY LIGHT SWITCH
 - NEW THREE-WAY LIGHT SWITCH WITH MOTION SENSOR
 - NEW FOUR-WAY LIGHT SWITCH WITH MOTION SENSOR
 - NEW EXIT SIGN
 - NEW EMERGENCY DUAL HEAD LIGHT FIXTURE

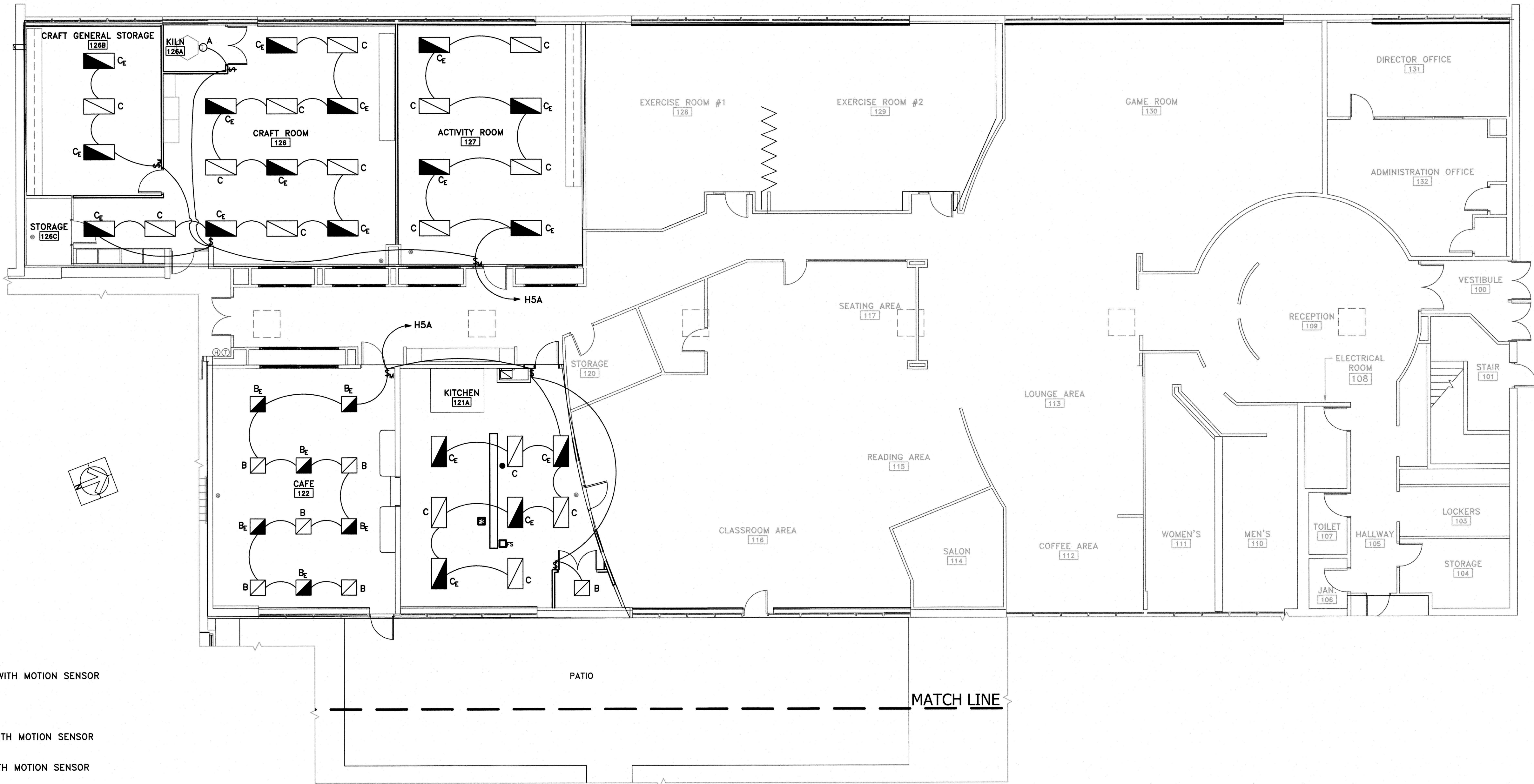


KEY PLAN
NOT TO SCALE

LUMINAIRE SCHEDULE					
ID	LAMPS	VENDOR	PART NUMBER	MOUNTING	DESCRIPTION
A	27.6 WATTS	PORTFOLIO OR EQUIVALENT	ER8B30409730	RECESSED WITH STANDARD HOUSING AND 8LBMOGPH TRIM	8" RECESSED ROUND LIGHT FIXTURE WITH STANDARD HOUSING RATED FOR PLENUM SPACE AND GRAPHITE COLORED TRIM
A _E	27.6 WATTS	PORTFOLIO OR EQUIVALENT	ER8B30409730	RECESSED WITH IEMV14 HOUSING AND 8LBMOGPHE TRIM	8" RECESSED ROUND LIGHT FIXTURE WITH EMERGENCY POWER HOUSING RATED FOR PLENUM SPACE AND GRAPHITE COLORED TRIM WITH SPACE FOR EMERGENCY TEST SWITCH ACCESS
B	24.5 WATTS	CORELITE OR EQUIVALENT	RX-WO-34H930-UNV-22-T1-STD	RECESSED	2'X2' RECESSED ARCHITECTURAL LIGHT FIXTURE WITH ROUND OPAL LENS
B _E	24.5 WATTS	CORELITE OR EQUIVALENT	RX-WO-34H930-UNV-22-T1-STD-EL14W	RECESSED	2'X2' RECESSED ARCHITECTURAL LIGHT FIXTURE WITH ROUND OPAL LENS AND EMERGENCY BATTERY OPTION
C	25.6 WATTS	CORELITE OR EQUIVALENT	RX-WO-35H930-UNV-24-T1-STD	RECESSED	2'X4' RECESSED ARCHITECTURAL LIGHT FIXTURE WITH ROUND OPAL LENS
C _E	25.6 WATTS	CORELITE OR EQUIVALENT	RX-WO-35H930-UNV-24-T1-STD-EL14W	RECESSED	2'X4' RECESSED ARCHITECTURAL LIGHT FIXTURE WITH ROUND OPAL LENS AND EMERGENCY BATTERY OPTION

ELECTRICAL CONSTRUCTION NOTES:

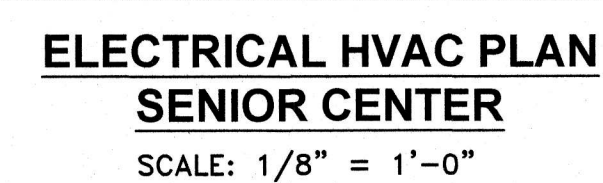
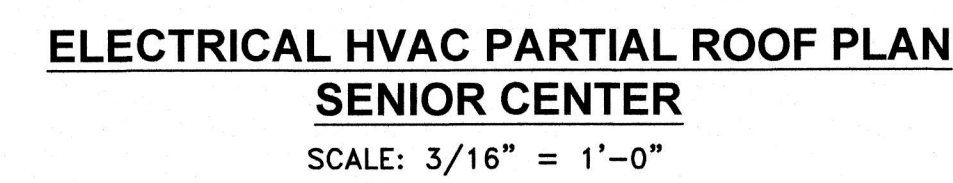
- SEE SHEET E0 FOR ELECTRICAL KEY PLAN AND GENERAL ELECTRICAL NOTES.
- CONTRACTOR SHALL FURNISH AND INSTALL NEW LIGHTING AS INDICATED. CONTRACTOR TO COORDINATE WITH OWNER AND ARCHITECT ON ALL AESTHETIC DETAILS, INCLUDING BUT NOT LIMITED TO FINAL FIXTURE SELECTIONS, TEMPERATURE, AND SWITCH COLOR, TO ENSURE FACILITY MEETS ARCHITECTURAL DESIGN INTENT.
- CONTRACTOR IS RESPONSIBLE FOR ENSURING FACILITY HAS PROPER LIGHTING LEVELS, PER OWNER REQUIREMENTS AND ALL RELEVANT CODES. LIGHTING LAYOUT IS DIAGRAMMATIC AND BASED ON DESIGN FIXTURES. SEE CONTRACT SPECIFICATIONS FOR REQUIRED FOOTCANDLES BASED ON SPACE USE.
- CONTRACTOR SHALL RE-USE EXISTING CIRCUIT BREAKER TO SUPPLY NEW LIGHTING AS INDICATED ON SHEET E16. CONTRACTOR IS RESPONSIBLE FOR TRACING EXISTING CIRCUITS ASSOCIATED WITH ROOMS 121, 122, AND 126 TO ENSURE THE ON SITE PANEL SCHEDULE IS ACCURATE. CONTRACTOR SHALL USE CIRCUITS MADE AVAILABLE BY DEMOLITION AS OUTLINED ON SHEET ED2 TO FEED NEW LIGHTING. CONTRACTOR IS RESPONSIBLE FOR FINAL PANEL SCHEDULE AND LOAD DISTRIBUTION BASED ON FIELD CONDITIONS AND INSTALLED EQUIPMENT.



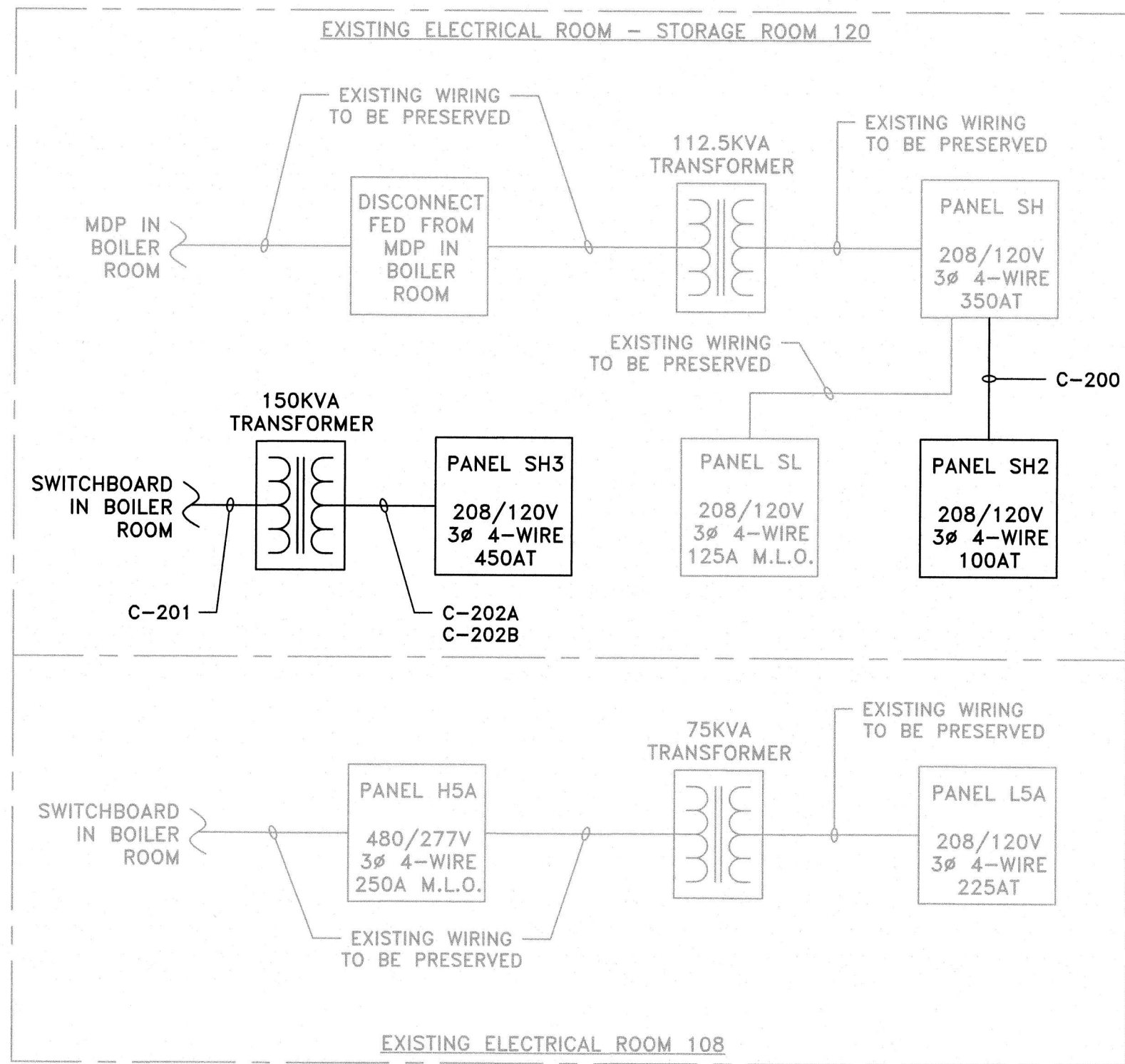
ELECTRICAL LIGHTING PLAN
SENIOR CENTER
SCALE: 1/8" = 1'-0"

100% DRAWINGS-8-10-2026

KENNEDY CENTER RENOVATION TO THE SENIOR CENTER	CLIENT: WILLINGBORO TOWNSHIP	DATE: AUG. 2026	DATE: 9.23.26	
		DESIGNED BY: JEN/KMG	APPROVED: [Signature]	
ELECTRICAL LIGHTING PLAN SENIOR CENTER	PROJECT NO.: M-0410-0011-000 WILLINGBORO TWP BURLINGTON COUNTY NEW JERSEY	DRAWN BY: AA/KMG	WILLIAM R. Long PROFESSIONAL ENGINEER NEW JERSEY LICENSE NO. 33012	
		CHECKED BY: [Signature]	ANITA S. Aradhya REGISTERED ARCHITECT NEW JERSEY LICENSE NO. 18769	
SCALE: AS NOTED		CONTRACT NO.: BID#8-2026		
SHEET E12		FILE NO.:		



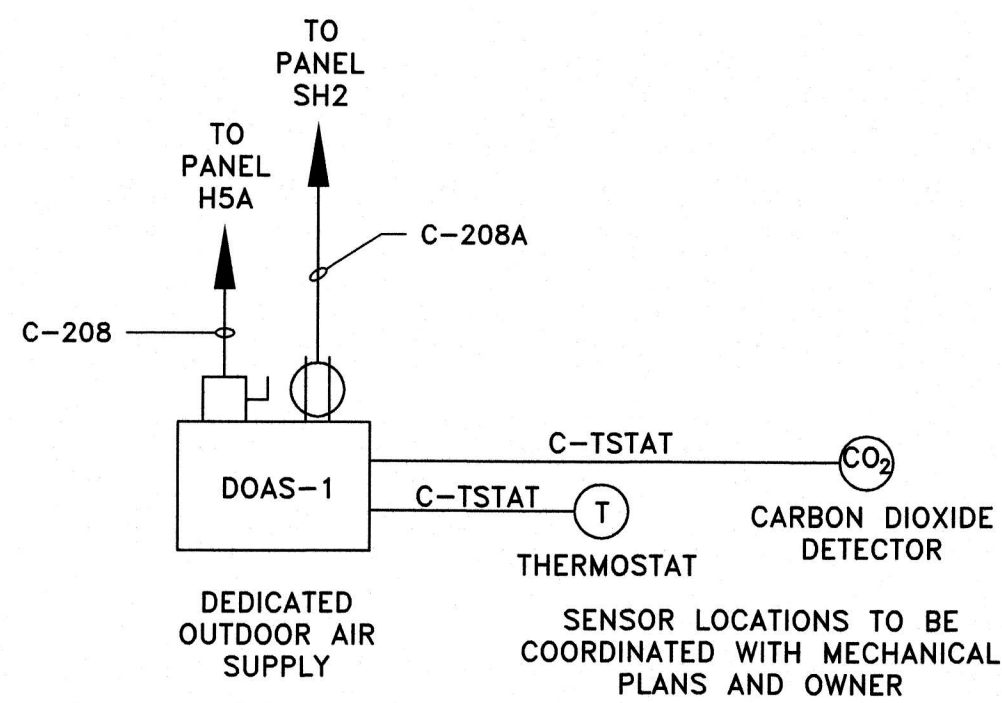
1. SEE SHEET E0 FOR ELECTRICAL KEY PLAN AND GENERAL ELECTRICAL NOTES.
2. SEE H-SERIES MECHANICAL PLANS FOR HVAC EQUIPMENT SCHEDULES, SEQUENCE OF OPERATIONS, AND OTHER DETAILS.
3. CONTRACTOR SHALL COORDINATE WITH OWNER'S BUILDING MANAGEMENT SYSTEM REPRESENTATIVE, SCHNEIDER ELECTRICAL, FOR ALL CONTROLS WIRING, CONDUIT, INTEGRATION AND INSTALLATION. CONTACT AT SCHNEIDER ELECTRICAL: WILHELMUS PENNINGEN, (717)460-5016.
4. PROVIDE AND INSTALL A NEW VRF CENTRAL CONTROLLER COMPATIBLE WITH THE EXISTING VRF CONTROLLER AND CAPABLE OF EQUIPMENT COMMUNICATION WITH THE EXISTING TRANE BMS. NEW CONTROLLER SHALL SUPPORT COMMUNICATION WITH ALL EXISTING AND RELOCATED VRF INDOOR UNITS. EXTEND AND RECONNECT CONTROL WIRING AS REQUIRED. COORDINATE INSTALLATION, PROGRAMMING, LICENSING, AND COMMISSIONING WITH THE BMS CONTRACTOR AND THE VRF EQUIPMENT MANUFACTURER. VERIFY PROPER OPERATION OF THE COMPLETE VRF SYSTEM UPON COMPLETION OF THE WORK.



**ELECTRICAL
BLOCK DIAGRAM**

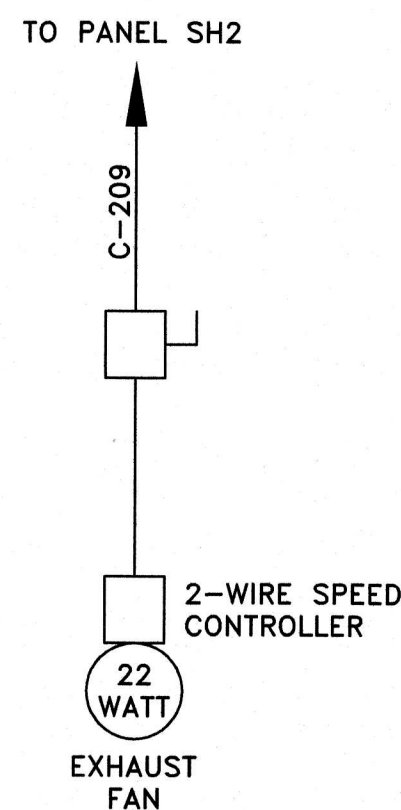
SCALE: NOT TO SCALE

* SEE ELECTRICAL FLOOR PLAN SHEET E6 FOR
ELECTRICAL ROOM LOCATIONS AND CONFIGURATIONS



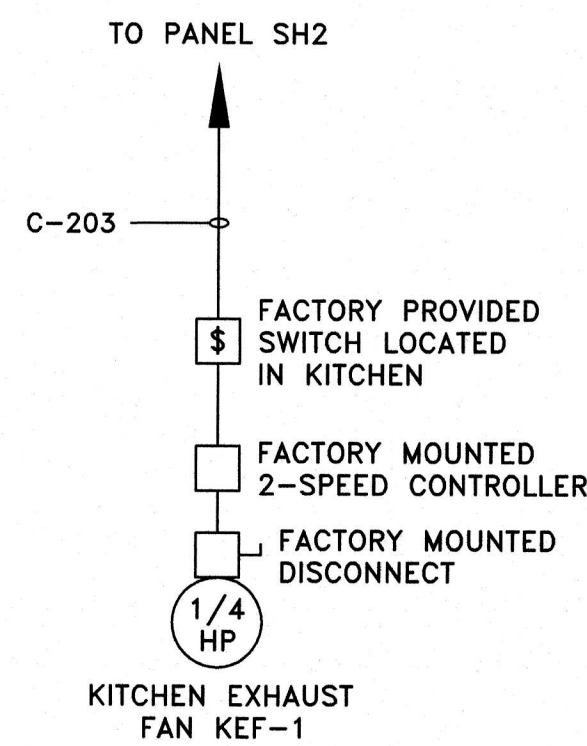
**DEDICATED OUTDOOR AIR
SUPPLY DOAS-1
BLOCK DIAGRAM**

SCALE: NOT TO SCALE



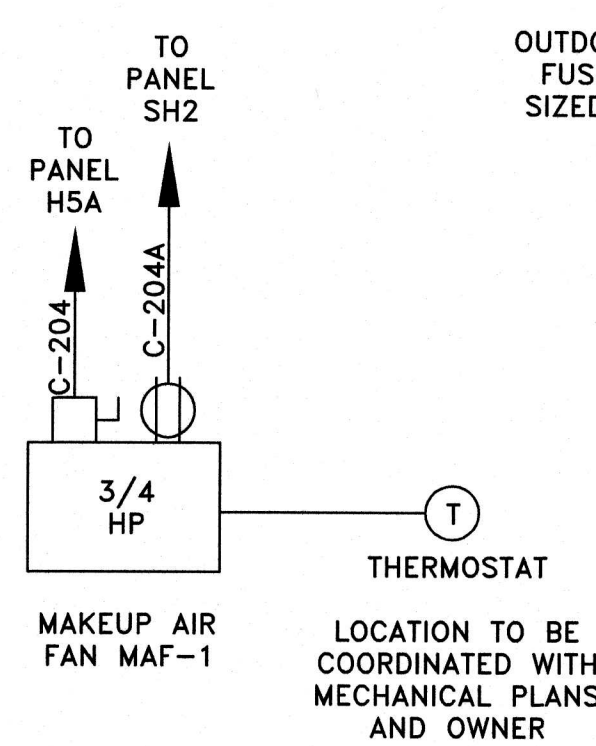
**EXHAUST FAN EF-8
BLOCK DIAGRAM**

SCALE: NOT TO SCALE



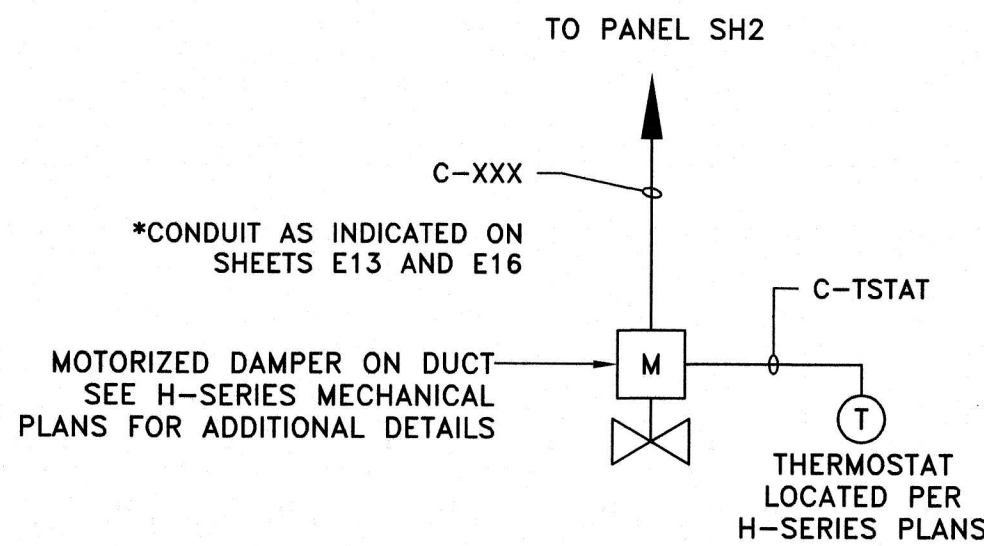
**KITCHEN EXHAUST FAN KEF-1
BLOCK DIAGRAM**

SCALE: NOT TO SCALE



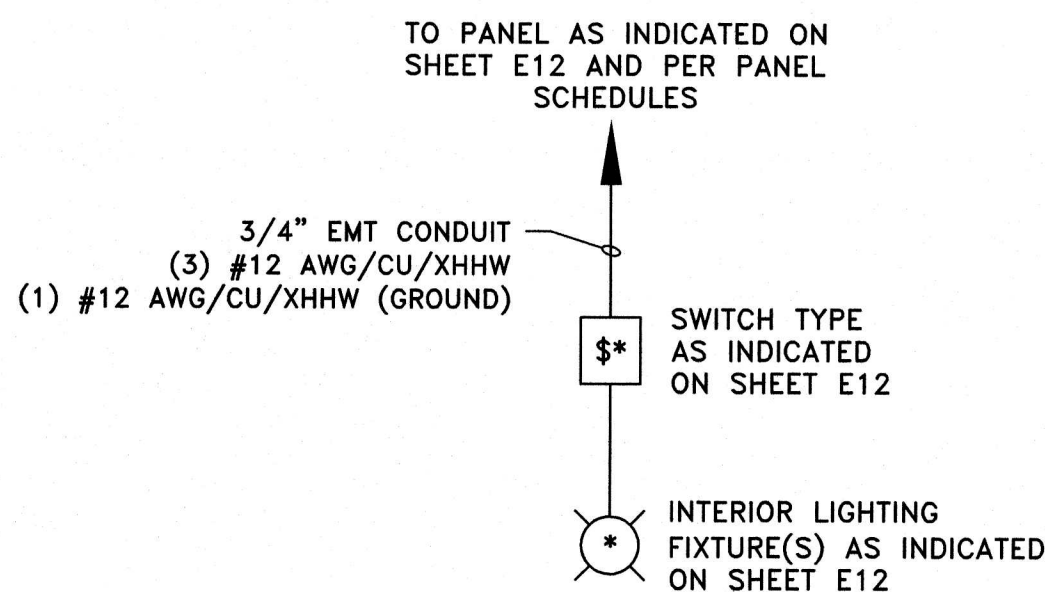
**MAKEUP AIR FAN MAF-1
BLOCK DIAGRAM**

SCALE: NOT TO SCALE



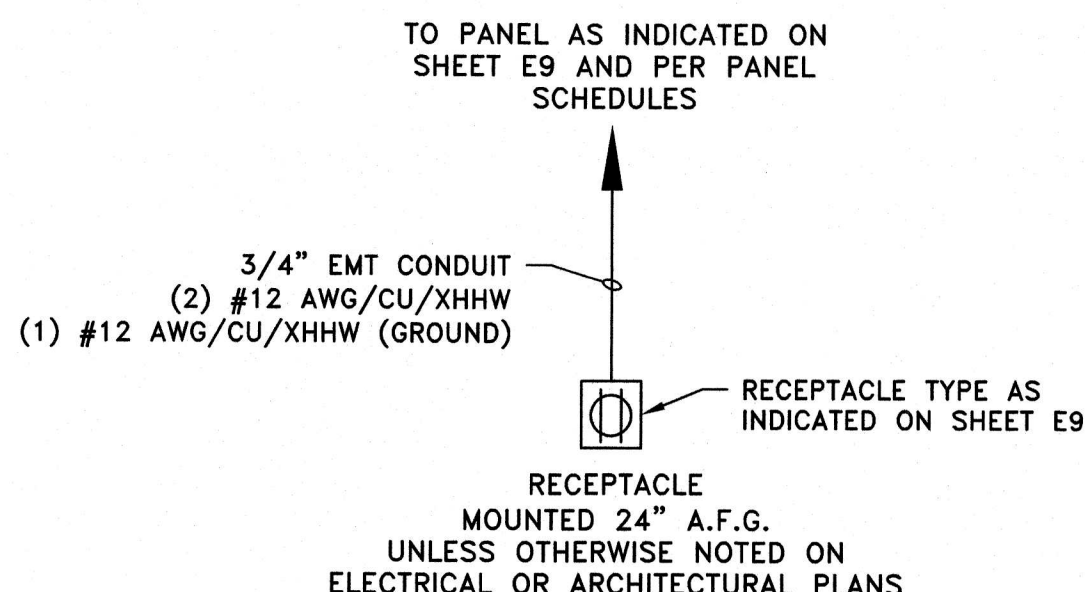
**MOTORIZED DAMPER
BLOCK DIAGRAM
(TYPICAL 2)**

SCALE: NOT TO SCALE



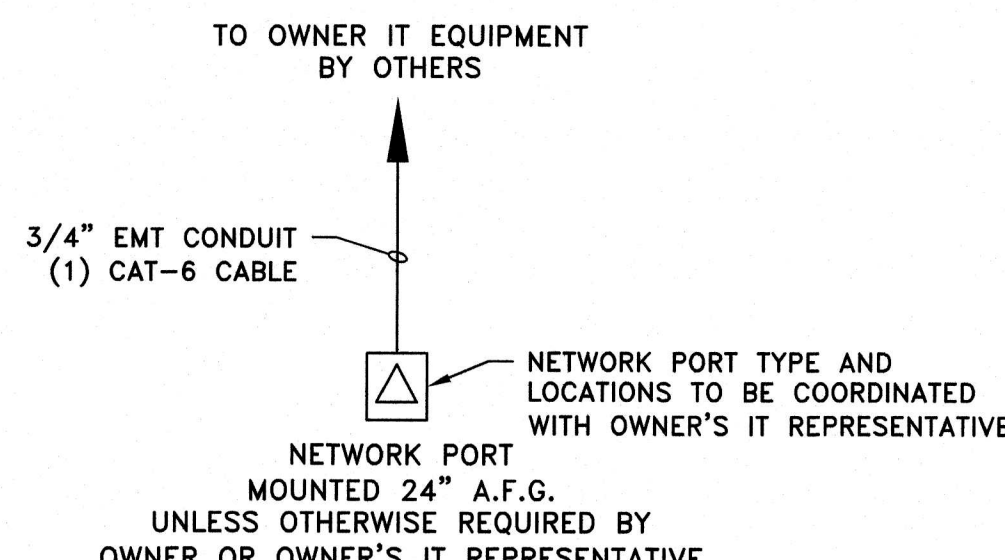
**INTERIOR LIGHTING
BLOCK DIAGRAM
(TYPICAL)**

SCALE: NOT TO SCALE



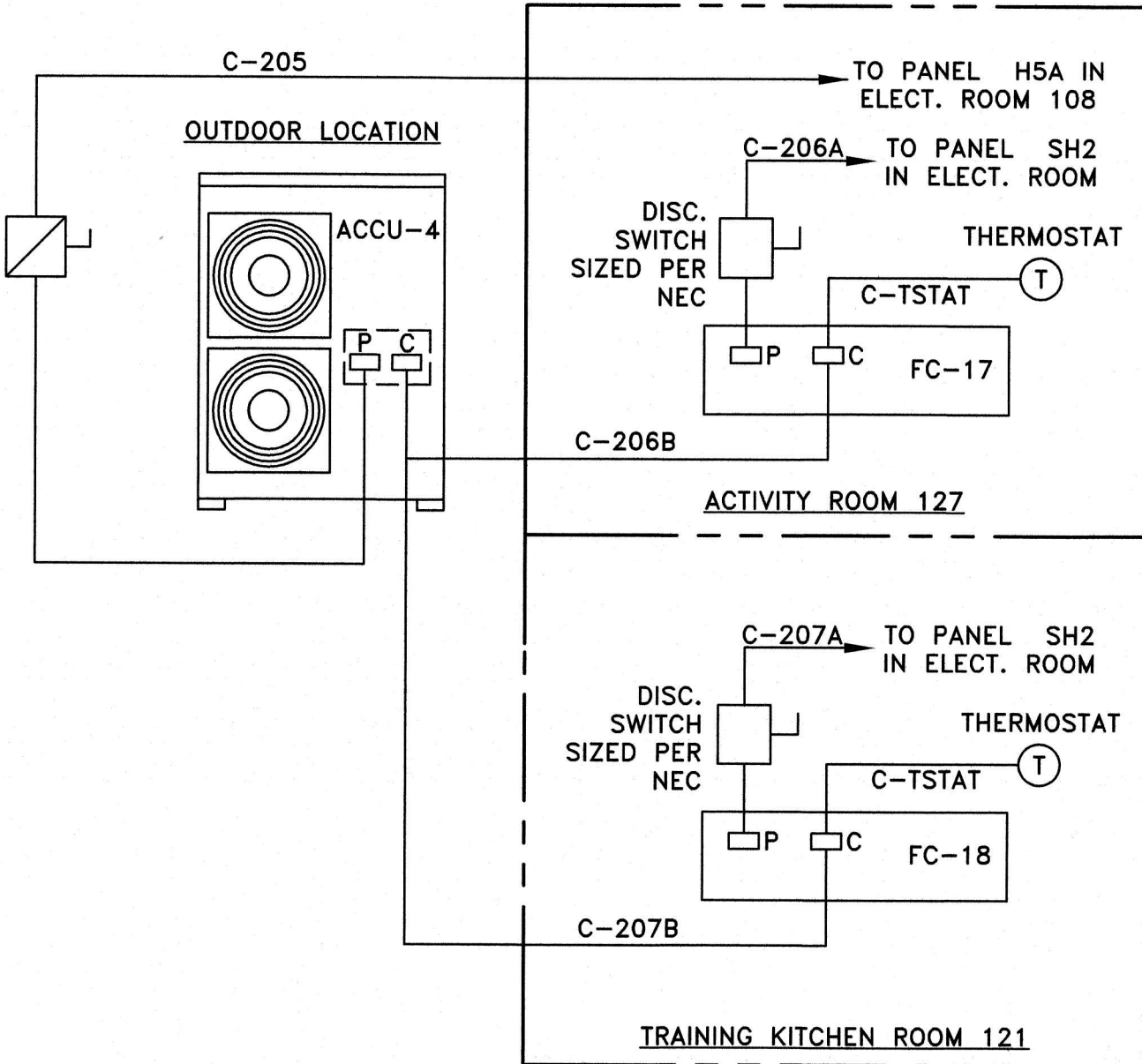
**RECEPTACLE
BLOCK DIAGRAM
(TYPICAL)**

SCALE: NOT TO SCALE



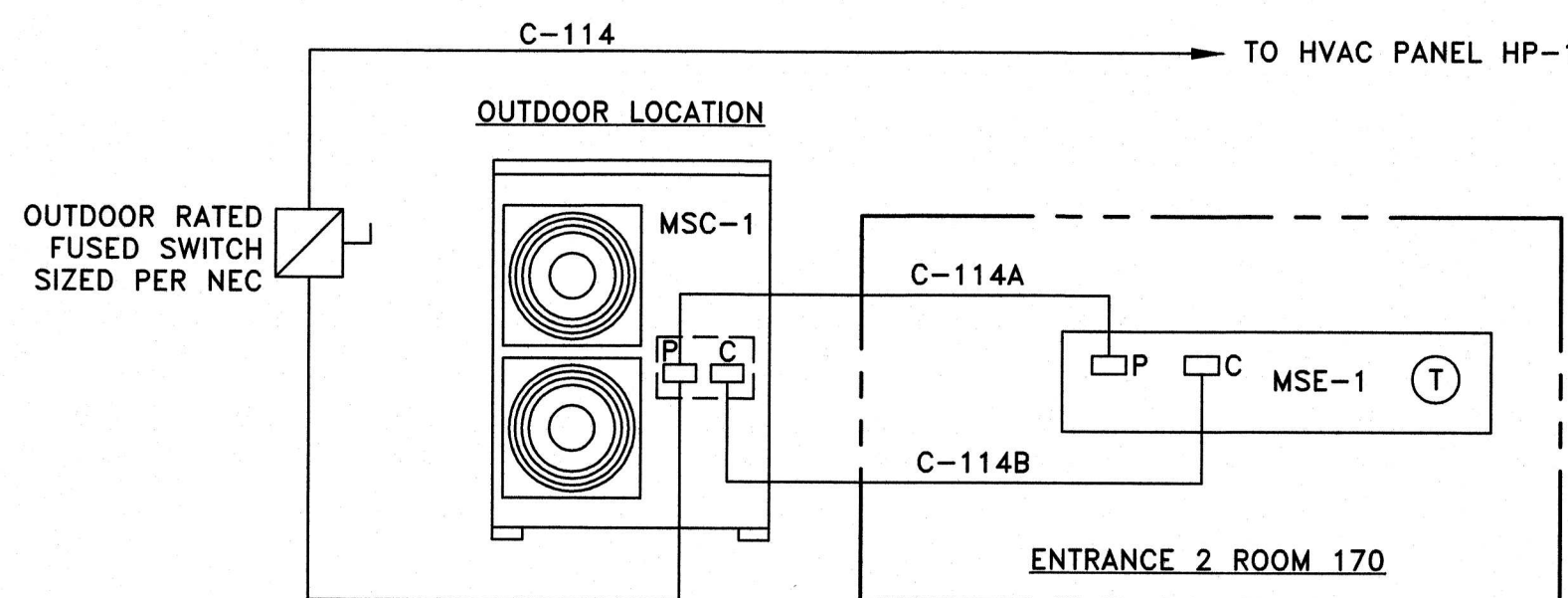
**NETWORK PORT
BLOCK DIAGRAM
(TYPICAL)**

SCALE: NOT TO SCALE



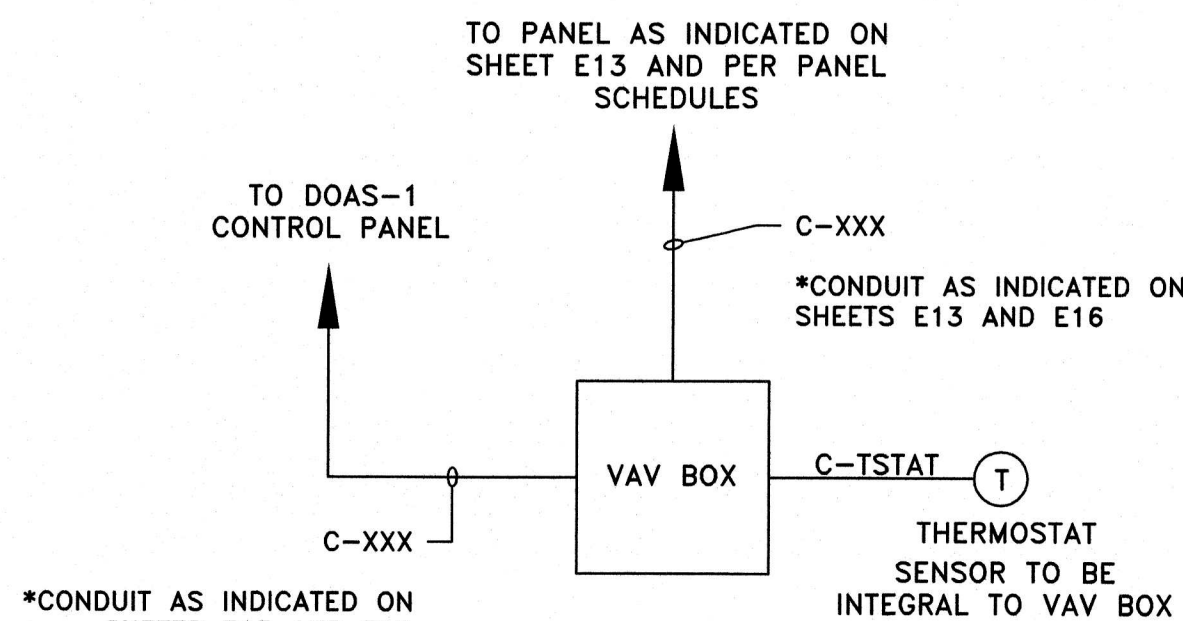
**SPLIT HVAC UNIT ACCU-4
BLOCK DIAGRAM**

SCALE: NOT TO SCALE



**HVAC UNITS MSC-1 AND MSE-1
ELECTRICAL BLOCK DIAGRAM**

SCALE: NOT TO SCALE



**VAV BOX
BLOCK DIAGRAM
(TYPICAL 2)**

SCALE: NOT TO SCALE

ELECTRICAL BLOCK DIAGRAM NOTES:

- SEE SHEET E0 FOR ELECTRICAL KEY PLAN AND GENERAL ELECTRICAL NOTES.
- SEE H-SERIES MECHANICAL PLANS FOR ADDITIONAL DETAILS ON EQUIPMENT SELECTIONS, CONTROLS, AND SEQUENCE OF OPERATIONS.
- CONTRACTOR SHALL COORDINATE WITH OWNER'S BUILDING MANAGEMENT SYSTEM REPRESENTATIVE, SCHNEIDER ELECTRICAL, FOR ALL CONTROLS INTEGRATION AND INSTALLATION. CONTACT AT SCHNEIDER ELECTRICAL: WILHELMUS PENNING, (717)460-5016.

APPROVED William R. Long PROFESSIONAL ENGINEER NEW JERSEY LICENSE NO. 33012	
APPROVED Anita S. Aradhya REGISTERED ARCHITECT NEW JERSEY LICENSE NO. 18769	
DATE: AUG. 2026	DESIGNED BY: JRN/KMG
PROJECT NO.: M-0410-0011-000	CONTRACT NO.: BID#8-2026
CLIENT: KENNEDY CENTER RENOVATION TO THE SENIOR CENTER	PROJECT LOCATION: WILLINGBORO TWP. BURLINGTON COUNTY NEW JERSEY
SCALE: AS NOTED	
SHEET E14	
FILE NO.:	

PANEL DESIGNATION	EXISTING PANEL SH	GROUND BUS	COPPER
SERVICE	120/208V, 3ø, 4 WIRE	SHORT CIRCUIT RATING	42,000 AIC
MOUNTING	SURFACE	ENCLOSURE TYPE	NEMA 1
MAINS		LOCATION	EXISTING ELECTRICAL ROOM
FEED	FED FROM 112.5KVA TRANSFORMER	MAIN	350A CIRCUIT BREAKER
BUS MATERIAL	COPPER	VENDOR	SIEMENS OR EQUIVALENT

USE/DESCRIPTION	WIRE TYPE	WIRE SIZE	LOAD WATTS	BKR SIZE	CKT #	CKT #	BKR SIZE	LOAD WATTS	WIRE SIZE	WIRE TYPE	USE/DESCRIPTION
CU-1	E	E	E	60A	1	2	20A	E	E	E	FCU-2, 14, 15
					3	4					
					5	6	20A	E	E	E	FCU-2, 13A, 13B
CU-2	E	E	E	60A	7	8					
					9	10	20A	E	E	E	FCU-1, 3, 8
					11	12					
CU-3	E	E	E	60A	13	14	20A	E	E	E	FCU-5, 6A, 6B, 7
					15	16					
					17	18	20A	E	E	E	FCU-9, 10, 16
CUH-3	E	E	E	20A	19	20					
CUH-1,2 EF-3	E	E	E	20A	21	22	20A	E	E	E	FCU-11A, 11B, 11C
OUTSIDE GFCI RECEPTACLES	E	E	E	20A	23	24					
ELEVATOR SHAFT RECEPTACLE	E	E	E	20A	25	26	50A	E	8	XHWE	KILN
CUH-4	E	E	E	20A	27	28					
EF-2	E	E	E	20A	29	30	20A	E	E	E	UNKNOWN
FIREPLACE	E	E	E	25A	31	32	20A	E	E	E	SALON PLUGMOLD
FIREPLACE	E	E	E	25A	33	34	20A	E	E	E	SALON PLUGMOLD
SALON RECEPTACLE	E	E	E	20A	35	36	20A	E	E	E	SALON CHAIR
CUH-4	E	E	E	20A	37	38					
CUH-5	E	E	E	20A	39	40	100A	8200	6	XHWW	PANEL SH2
EF-4, 5	E	E	E	20A	41	42					

EXISTING PANEL SH NOTES:

- CONTRACTOR SHALL RE-USE EXISTING 50A, 2-POLE CIRCUIT BREAKER OCCUPYING CIRCUITS 26 AND 28 TO FEED NEW 50A, 208V RECEPTACLE FOR RELOCATED KILN. SEE SHEET E6 FOR ADDITIONAL DETAILS.
- CONTRACTOR SHALL FURNISH AND INSTALL NEW 100A, 3-POLE CIRCUIT BREAKER IN PLACE OF EXISTING SPACES IN CIRCUITS 38, 40, AND 42. NEW CIRCUIT BREAKER SHALL FEED NEW PANEL SH2.

PANEL DESIGNATION	PANEL SH2	GROUND BUS	COPPER
SERVICE	120/208V, 3ø, 4 WIRE	SHORT CIRCUIT RATING	42,000 AIC
MOUNTING	SURFACE	ENCLOSURE TYPE	NEMA 1
MAINS		LOCATION	ELECTRICAL ROOM
FEED	FED FROM PANEL SH	MAIN	100A CIRCUIT BREAKER
BUS MATERIAL	COPPER	VENDOR	SIEMENS OR EQUIVALENT

USE/DESCRIPTION	WIRE TYPE	WIRE SIZE	LOAD WATTS	BKR SIZE	CKT #	CKT #	BKR SIZE	LOAD WATTS	WIRE SIZE	WIRE TYPE	USE/DESCRIPTION
KEF-1 (KITCHEN RM 121)	XHWW	12	1000	20A	1	2	15A	600	12	XHWW	FCU-17
MOTORIZED DAMPER EADC-1	XHWW	12	300	15A	3	4					
MOTORIZED DAMPER EADC-2	XHWW	12	300	15A	5	6	15A	800	12	XHWW	FCU-18
KITCHEN CLOSET RECEPT.	XHWW	12	180	15A	7	8					
SPARE	-	-	-	15A	9	10	20A	600	12	XHWW	MSC-1
ROOFTOP RECEPTACLE	XHWW	12	180	20A	11	12					
WARMING CABINET (RM 121)	XHWW	12	2000	30A	13	14	15A	200	12	XHWW	EF-8
MICROWAVE (RM 122)	XHWW	12	1400	20A	15	16	20A	180	12	XHWW	OUTDOOR RECEPTACLE
GRIDDLE BASE FRIDGE (RM 121)	XHWW	12	300	15A	17	18	20A	-	-	-	SPARE
VAV-1	XHWW	12	600	20A	19	20	20A	600	12	XHWW	VAV-2
SPARE	-	-	-	15A	23	22					
						24	15A	-	-	-	SPARE

NEW PANEL SH2 NOTES:

- CONTRACTOR SHALL FURNISH AND INSTALL NEW PANEL AS INDICATED IN EXISTING ELECTRICAL ROOM. SEE SHEET E6 FOR ADDITIONAL DETAILS, INCLUDING ELECTRICAL ROOM LOCATION.

PANEL DESIGNATION	PANEL SL	GROUND BUS	COPPER
SERVICE	120/208V, 3ø, 4 WIRE	SHORT CIRCUIT RATING	42,000 AIC
MOUNTING	SURFACE	ENCLOSURE TYPE	NEMA 1
MAINS		LOCATION	EXISTING ELECTRICAL ROOM
FEED	FED FROM PANEL SH	MAIN	100A M.L.O.
BUS MATERIAL	COPPER	VENDOR	SIEMENS

USE/DESCRIPTION	WIRE TYPE	WIRE SIZE	LOAD WATTS	BKR SIZE	CKT #	CKT #	BKR SIZE	LOAD WATTS	WIRE SIZE	WIRE TYPE	USE/DESCRIPTION
QUAD-SERVER	E	E	E	20A	1	2	20A	E	E	E	QUAD-SERVER
RECEPTACLES-RM 131, 132	E	E	E	20A	3	4	20A	E	E	E	RECEPTACLES-RM 130, 132
BILLIARD LIGHTS	E	E	E	20A	5	6	20A	E	E	E	RECEPTACLES-RM 109, 130, 132
RECEPTACLES-RM 109	E	E	E	20A	7	8	20A	E	E	E	RECEPTACLES-RECEPTION DESK
QUAD-RECEPTION DESK	E	E	E	20A	9	10	20A	E	E	E	RECEPTACLES-RM 109, 113, 130
SOUND RACK-RM 129	E	E	E	20A	11	12	20A	E	E	E	RECEPTACLES-RM 129, 130
RECEPTACLES-RM 112, 113 EFG	E	E	E	20A	13	14	20A	E	E	E	RECEPTACLES-RM 114, 115
RECEPTACLES-RM 117	E	E	E	20A	15	16	20A	E	E	E	QUAD-RM 118
RECEPTACLES-RM 119, 128, 129	E	E	E	20A	17	18	20A	E	E	E	QUAD-SOUNDTRACK RM 128
RECEPTACLES-RM 126, 128	E	E	E	20A	19	20	20A	E	E	E	RECEPTACLES-RM 120
QUAD-RM 116	E	E	E	20A	21	22	20A	E	E	E	QUAD-RM 116
RECEPTACLES-RM 116, 121	E	E	E	20A	23	24	20A	E	E	E	QUAD-RM 121
RECEPTACLES-RM 121	E	E	E	20A	25	26	20A	E	E	E	RECEPTACLES-RM 121
QUAD PRINTER-RM 121	E	E	E	20A	27	28	20A	E	E	E	QUADS-RM 121
QUAD RECEPTACLES-RM 121	E	E	E	20A	29	30	20A	E	E	E	QUADS-RM 121
RECEPTACLES-RM-121, 122	E	E	E	20A	31	32	20A	E	E	E	RECEPTACLES-RM 122
CEILING RECEPTACLES-RM 128	E	E	E	20A	33	34	20A	E	E	E	RECEPTACLES-RM 128
RECEPTACLES-RM 126	E	E	E	20A	35	36	20A	E	E	E	RECEPTACLES-RM 126 (CEILING)
POSTER MACHINE-RM 119	E	E	E	20A	37	38	20A	E	E	E	BOOSTER FANS, DAMPERS
COPY MACHINE-RM 119	E	E	E	20A	39	40	20A	E	E	E	CONTROL PANEL, TRANSFORMERS
RECEPTACLES-RM 121	E	E	E	20A	41	42	20A	E	E	E	CEILING PROJECTORS-RM 121

EXISTING PANEL SL NOTES:

- CONTRACTOR SHALL RE-USE EXISTING CIRCUIT BREAKER TO SUPPLY NEW GENERAL USE RECEPTACLES, GFCI RECEPTACLES IN KITCHEN RM 121, AND DEDICATED RECEPTACLES FOR KITCHEN EQUIPMENT AS FOLLOWS: UNDERSINK GREASE SEPARATOR, REACH-IN REFRIGERATOR, REACH-IN FREEZER, DISPLAY REFRIGERATOR, AND UNDERCOUNTER ADA REFRIGERATOR. SEE SHEETS E9, E10, AND E11 FOR ADDITIONAL INFORMATION, INCLUDING RECEPTACLE LOCATIONS AND KITCHEN EQUIPMENT LAYOUT. CONTRACTOR IS RESPONSIBLE FOR TRACING EXISTING CIRCUITS ASSOCIATED WITH ROOMS 121, 122, AND 126 TO ENSURE THE ON SITE PANEL SCHEDULE IS ACCURATE. CONTRACTOR SHALL USE CIRCUITS MADE AVAILABLE BY DEMOLITION AS OUTLINED ON SHEET ED2 TO FEED NEW RECEPTACLES. CONTRACTOR IS RESPONSIBLE FOR FINAL PANEL SCHEDULE AND LOAD DISTRIBUTION BASED ON FIELD CONDITIONS AND INSTALLED EQUIPMENT. CIRCUITS 19, 23-32, 34-36, AND 41-42 ARE MARKED AS EXISTING CIRCUITS ASSOCIATED WITH THE AREAS OF CONSTRUCTION.

PANEL DESIGNATION	PANEL SH3	GROUND BUS	COPPER
SERVICE	120/208V, 3ø, 4 WIRE	SHORT CIRCUIT RATING	42,000 AIC
MOUNTING	SURFACE	ENCLOSURE TYPE	NEMA 1
MAINS		LOCATION	ELECTRICAL ROOM
FEED	FED FROM 112.5KVA TRANSFORMER	MAIN	450A CIRCUIT BREAKER
BUS MATERIAL	COPPER	VENDOR	SIEMENS OR EQUIVALENT

USE/DESCRIPTION	WIRE TYPE	WIRE SIZE	LOAD WATTS	BKR SIZE	CKT #	CKT #	BKR SIZE	LOAD WATTS	WIRE SIZE	WIRE TYPE	USE/DESCRIPTION
INDUCT. RANGE/OVEN (RM 121)	XHWW	4	21600	85A	1	2					
					3	4	85A	21000	4	XHWW	ELECT. GRIDDLE (RM 121)
					5	6					
ELECT. FRYER (RM 121)	XHWW	4	24000	100A	7	8					
					9	10	30A	9000	10	XHWW	UNDERCOUNTER WARE-WASHER (RM 121)
					11	12					
COFFEE MAKER (RM 121)	XHWW	12	1500	20A	13	14	30A	4300	10	XHWW	RAPID COOK (RM 121)
COFFEE MAKER (RM 121)	XHWW	12	1500	20A	15	16					
COFFEE MAKER (RM 122)	XHWW	12	1500	20A	17	18	20A	1600	12	XHWW	TOASTER (RM 121)

NEW PANEL SH3 NOTES:

- CONTRACTOR SHALL FURNISH AND INSTALL NEW PANEL AS INDICATED IN EXISTING ELECTRICAL ROOM. SEE SHEET E6 FOR ADDITIONAL DETAILS, INCLUDING ELECTRICAL ROOM LOCATION.

DATE: AUG. 2026
DESIGNED BY: JRN/KMG
DRAWN BY: KMG
CHECKED BY: JRN/KMG
DATE: 8/22/26

PROJECT NO.: M-0410-0011-000
PROJECT LOCATION: WILLINGBORO TWP.
BURLINGTON COUNTY
NEW JERSEY

CLIENT: KENNEDY CENTER
RENOVATION TO THE SENIOR CENTER

PROJECT NO.: M-0410-0011-000
PROJECT LOCATION: WILLINGBORO TWP.
BURLINGTON COUNTY
NEW JERSEY

CLIENT: WILLINGBORO TOWNSHIP

PROJECT NO.: M-0410-0011-000
PROJECT LOCATION: WILLINGBORO TWP.
BURLINGTON COUNTY
NEW JERSEY

CLIENT: WILLIAM R. LONG, P.E.
ANITA S. ARADHYA, R.A.
200 HIGH STREET
MOUNT HOLLY, N.J.

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MOUNT HOLLY, N.J.

APPROVED
William R. Long
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. 33012

APPROVED
Anita S. Aradhyia
REGISTERED ARCHITECT
NEW JERSEY LICENSE NO. 18769

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PROJECT NO.: M-0410-0011-000
PROJECT LOCATION: WILLINGBORO TWP.
BURLINGTON COUNTY
NEW JERSEY

CLIENT: KENNEDY CENTER
RENO

PANEL DESIGNATION	PANEL H5A
SERVICE	277/480V, 3ø, 4 WIRE
MOUNTING	SURFACE
MAINS	
FEED	FED FROM BOILER ROOM ELECTRICAL SWITCHBOARD
BUS MATERIAL	COPPER

GROUND BUS	COPPER
SHORT CIRCUIT RATING	42,000 AIC
ENCLOSURE TYPE	NEMA 1
LOCATION	EXISTING ELECTRICAL ROOM 108
MAIN	250A M.L.O.
VENDOR	SIEMENS

USE/DESCRIPTION	WIRE TYPE	WIRE SIZE	LOAD WATTS	BKR SIZE	CKT #	CKT #	BKR SIZE	LOAD WATTS	WIRE SIZE	WIRE TYPE	USE/DESCRIPTION
LIGHTS - RM 136, 138	E	E	E	20A	1	2					
SPARE	E	E	E	20A	3	4	40A	24000	8	XHHW	DOAS UNIT
SPARE	E	E	E	20A	5	6					
SPARE	E	E	E	20A	7	8					
SPARE	E	E	E	20A	9	10	20A	11000	10	XHHW	ACCU-4
SPARE	E	E	E	20A	11	12					
SPARE	E	E	E	20A	13	14					
SPARE	E	E	E	20A	15	16	60A	19000	6	XHHW	MAKE-UP AIR UNIT MUA-1
SPARE	E	E	E	20A	17	18					
LIGHTS - RM 126	E	E	E	20A	19	20	20A	E	E	E	SPARE
LIGHTS - RM 126	E	E	E	20A	21	22	20A	E	E	E	SPARE
CORRIDOR LIGHTS	E	E	E	20A	23	24	20A	E	E	E	SPARE
LIGHTS - RM 121, 122	E	E	E	20A	25	26	20A	E	E	E	SPARE
LIGHTS - RM 117	E	E	E	20A	27	28	20A	E	E	E	SPARE
LIGHTS - RM 113	E	E	E	20A	29	30	20A	E	E	E	SPARE
LIGHTS - RM 130	E	E	E	20A	31	32	20A	E	E	E	SPARE
LIGHTS - RM 128, 129	E	E	E	20A	33	34	20A	E	E	E	SPARE
LIGHTS - RECEPTION	E	E	E	20A	35	36	20A	E	E	E	SPARE
LIGHTS - MENS, WOMENS ROOMS	E	E	E	20A	37	38					
LIGHTS - ADMIN	E	E	E	20A	39	40	125A	E	E	E	75KVA TRANSFORMER
LIGHTS - LOBBY, OUTDOOR	E	E	E	20A	41	42					

EXISTING PANEL H5A NOTES:

- CONTRACTOR SHALL RE-USE EXISTING CIRCUIT BREAKER TO SUPPLY NEW LIGHTING AS INDICATED ON SHEET E7. CONTRACTOR IS RESPONSIBLE FOR TRACING EXISTING CIRCUITS ASSOCIATED WITH ROOMS 121, 122, AND 126 TO ENSURE THE ON SITE PANEL SCHEDULE IS ACCURATE. CONTRACTOR SHALL USE CIRCUITS MADE AVAILABLE BY DEMOLITION AS OUTLINED ON SHEET E02 TO FEED NEW LIGHTING. CONTRACTOR IS RESPONSIBLE FOR FINAL PANEL SCHEDULE AND LOAD DISTRIBUTION BASED ON FIELD CONDITIONS AND INSTALLED EQUIPMENT. CIRCUITS 19, 21, AND 25 ARE MARKED AS EXISTING CIRCUITS ASSOCIATED WITH THE AREAS OF CONSTRUCTION.
- CONTRACTOR SHALL FURNISH AND INSTALL NEW 40A, 3-POLE CIRCUIT BREAKER IN PLACE OF EXISTING SPARES IN CIRCUITS 2, 4, AND 6. NEW CIRCUIT BREAKER SHALL FEED NEW HVAC UNIT DOAS-1.
- CONTRACTOR SHALL FURNISH AND INSTALL NEW 20A, 3-POLE CIRCUIT BREAKER IN PLACE OF EXISTING SPARES IN CIRCUITS 8, 10, AND 12. NEW CIRCUIT BREAKER SHALL FEED NEW HVAC UNIT ACCU-4.
- CONTRACTOR SHALL FURNISH AND INSTALL NEW 60A, 3-POLE CIRCUIT BREAKER IN PLACE OF EXISTING SPARES IN CIRCUITS 12, 14, AND 16. NEW CIRCUIT BREAKER SHALL FEED NEW HVAC UNIT MUA-1.

CONDUIT					CABLE	
NUMBER	SIZE	TYPE	FROM	TO	PHASE CONDUCTOR QUANTITY/SIZE	GROUND CONDUCTOR QUANTITY/SIZE
C-200	1 1/2"	EMT	EXISTING PANEL SH	NEW PANEL SH2	(3) #3 AWG/CU/XHHW	(1) #6 AWG/CU/XHHW
C-201	3 1/2"	EMT/PVC	EXISTING SWITCHBOARD	NEW 150KVA TRANSFORMER	(3) 4/0 AWG/CU/XHHW	(1) 2/0 AWG/CU/XHHW
C-202A	2 1/2"	EMT	NEW 150KVA TRANSFORMER	NEW PANEL SH3	(3) 3/0 AWG/CU/XHHW	(1) 1/0 AWG/CU/XHHW
C-202B	2 1/2"	EMT	NEW 150KVA TRANSFORMER	NEW PANEL SH3	(3) 3/0 AWG/CU/XHHW	(1) 1/0 AWG/CU/XHHW
C-203	3/4"	EMT	NEW PANEL SH2	NEW KEF-1	(2) #12 AWG/CU/XHHW	(1) #12 AWG/CU/XHHW
C-204	1 1/2"	EMT	EXISTING PANEL H5A	NEW MAF-1	(3) #6 AWG/CU/XHHW	(1) #10 AWG/CU/XHHW
C-204A	3/4"	EMT	NEW PANEL SH2	NEW MAF-1 RECEPTACLE	(2) #12 AWG/CU/XHHW	(1) #12 AWG/CU/XHHW
C-205	1"	EMT	EXISTING PANEL H5A	NEW ACCU-4	(3) #10 AWG/CU/XHHW	(1) #12 AWG/CU/XHHW
C-206	3/4"	EMT	NEW PANEL SH2	NEW FCU-17	(2) #12 AWG/CU/XHHW	(1) #12 AWG/CU/XHHW
C-206A	3/4"	EMT	NEW ACCU-4	NEW FCU-17	MANUFACTURER REQUIRED CONTROL CABLE	- - -
C-207	3/4"	EMT	NEW PANEL SH2	NEW FCU-18	(2) #12 AWG/CU/XHHW	(1) #12 AWG/CU/XHHW
C-207A	3/4"	EMT	NEW ACCU-4	NEW FCU-18	MANUFACTURER REQUIRED CONTROL CABLE	- - -
C-208	1"	RA/PVC	EXISTING PANEL H5A	NEW DOAS-1	(3) #10 AWG/CU/XHHW	(1) #12 AWG/CU/XHHW
C-208A	3/4"	RA/PVC	NEW PANEL SH2	NEW DOAS-1 RECEPTACLE	(2) #12 AWG/CU/XHHW	(1) #12 AWG/CU/XHHW
C-209	3/4"	EMT	NEW PANEL SH2	NEW EF-8	(2) #12 AWG/CU/XHHW	(1) #12 AWG/CU/XHHW
C-210	3/4"	EMT	NEW PANEL SH2	NEW MOTORIZED DAMPER EADC-1	(2) #12 AWG/CU/XHHW	(1) #12 AWG/CU/XHHW
C-210	3/4"	EMT	NEW MOTORIZED DAMPER EADC-1	NEW VAV-1	MANUFACTURER REQUIRED CONTROL CABLE	- - -
C-211	3/4"	EMT	NEW PANEL SH2	NEW MOTORIZED DAMPER EADC-2	(2) #12 AWG/CU/XHHW	(1) #12 AWG/CU/XHHW
C-211	3/4"	EMT	NEW MOTORIZED DAMPER EADC-2	NEW VAV-1	MANUFACTURER REQUIRED CONTROL CABLE	- - -
C-212	3/4"	EMT	NEW PANEL SH2	NEW VAV-1	(2) #12 AWG/CU/XHHW	(1) #12 AWG/CU/XHHW
C-212A	3/4"	EMT	NEW VAV-1	NEW DOAS-1 CONTROL PANEL	MANUFACTURER REQUIRED CONTROL CABLE	- - -
C-213	3/4"	EMT	NEW PANEL SH2	NEW VAV-2	(2) #12 AWG/CU/XHHW	(1) #12 AWG/CU/XHHW
C-213A	3/4"	EMT	NEW VAV-2	NEW DOAS-1 CONTROL PANEL	MANUFACTURER REQUIRED CONTROL CABLE	- - -
C-214	3/4"	RA/PVC	NEW PANEL SH2	NEW OUTDOOR UNIT MSC-1	(2) #12 AWG/CU/XHHW	(1) #12 AWG/CU/XHHW
C-214A	3/4"	RA/PVC	NEW OUTDOOR UNIT MSC-1	NEW INDOOR UNIT MSE-1	(2) #12 AWG/CU/XHHW	(1) #12 AWG/CU/XHHW
C-214B	3/4"	RA/PVC	NEW OUTDOOR UNIT MSC-1	NEW INDOOR UNIT MSE-1	MANUFACTURER REQUIRED CONTROL CABLE	- - -
C-TSTAT	3/4"	EMT	HVAC EQUIPMENT AS INDICATED	THERMOSTAT	(1) THERMOSTAT CABLE	- - -

CONDUIT AND CABLE NOTES:

- SEE SHEET E0 FOR ELECTRICAL KEY PLAN AND GENERAL ELECTRICAL NOTES.
- SEE SHEETS E9-E13 FOR ELECTRICAL FLOOR PLANS, SHEET E14 FOR ELECTRICAL BLOCK DIAGRAMS, AND SHEETS E15 FOR ADDITIONAL ELECTRICAL PANEL SCHEDULES.

- EMT - ELECTRICAL METALLIC TUBING TYPE CONDUIT
- EMT/PVC - EMT CONDUIT ABOVE GRADE, SCHEDULE 80 POLYVINYL CHLORIDE CONDUIT BELOW GRADE, WITH APPROPRIATE TRANSITION FITTINGS
- RA - RIGID ALUMINUM CONDUIT
- RA/PVC - RA CONDUIT ABOVE GRADE, PVC CONDUIT BELOW GRADE, WITH APPROPRIATE TRANSITION FITTINGS
- * METAL CLAD CABLING IS PERMITTED ABOVE ACCESSIBLE CEILINGS, EMT CONDUIT PAINTED TO MATCH SURFACE IS REQUIRED BELOW ACCESSIBLE CEILINGS

APPROVED
Anita S. Aradhya
REGISTERED ARCHITECT
NEW JERSEY LICENSE NO. 18769

BY	DATE	REVISIONS

WILLIAM R. LONG, P.E. ANTITA S. ARADHYA, R.A.	LIC. 33012 LIC. 18769	MOUNT HOLLY, N.J.
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DATE: AUG. 2026 DESIGNED BY: JRN/KMG DRAWN BY: JRN/KMG CHECKED BY: JRN/KMG DEPT. HEAD: JRN/KMG
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CLIENT: WILLINGBORO TOWNSHIP	PROJECT NO.: M-0410-001-1-000 CONTRACT NO.: BID#8-2026
PROJECT LOCATION: WILLINGBORO TWP. BURLINGTON COUNTY NEW JERSEY	

KENNEDY CENTER RENOVATION TO THE SENIOR CENTER	ELECTRICAL SCHEDULES SENIOR CENTER 2 OF 2 SCALE: AS NOTED
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SHEET E16	FILE NO.:
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