

# FACILITIES RELOCATION - BUILDING SYSTEMS RENOVATION PROJECT - 1ST FLOOR ELECTRICAL/ LIGHTING

1206 FLORA STREET  
COLUMBIA, SC 29201

PROJECT #: H27-Z400 / 50003367-2



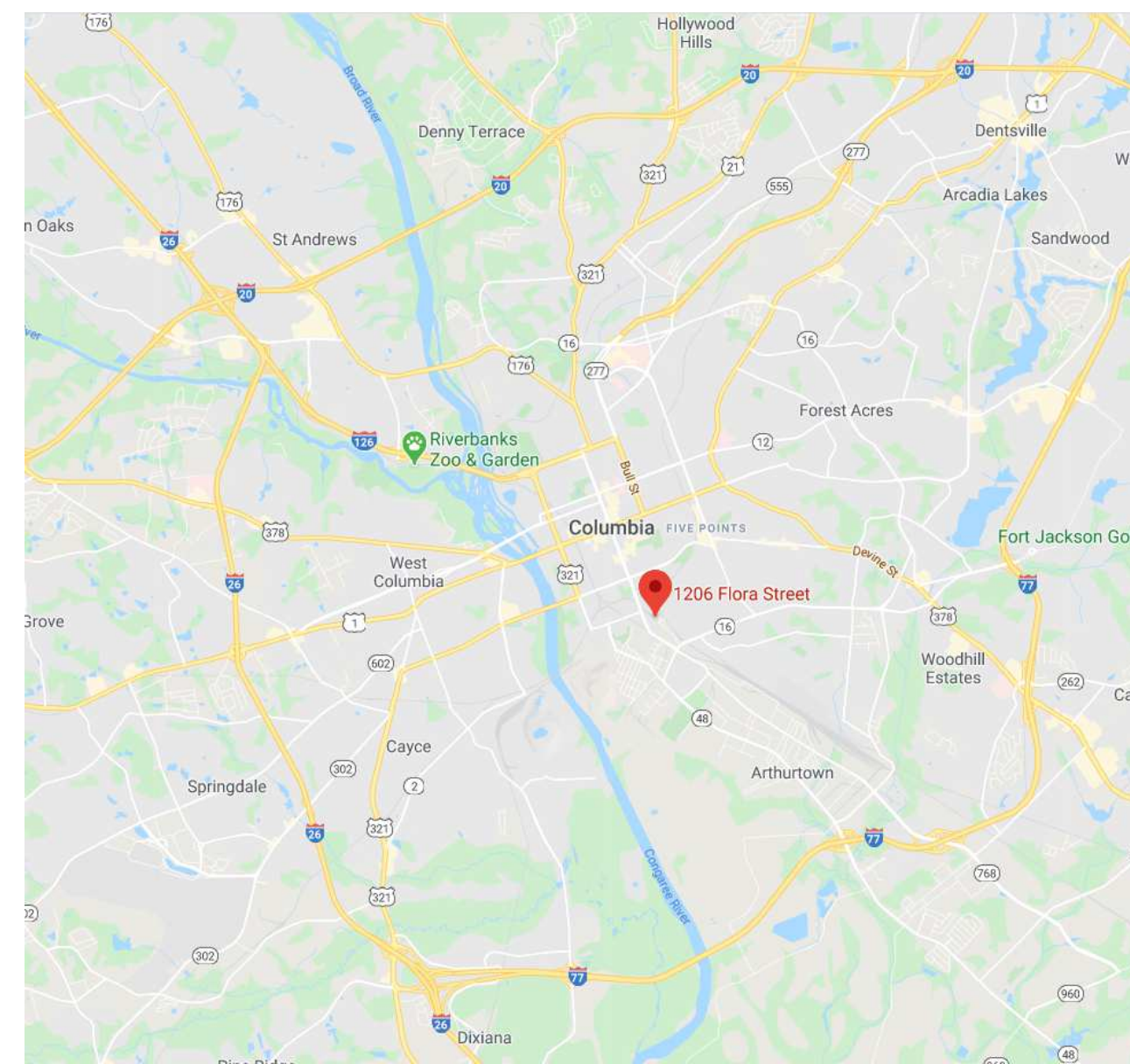
UNIVERSITY OF  
**SOUTH CAROLINA**

## PROJECT TEAM

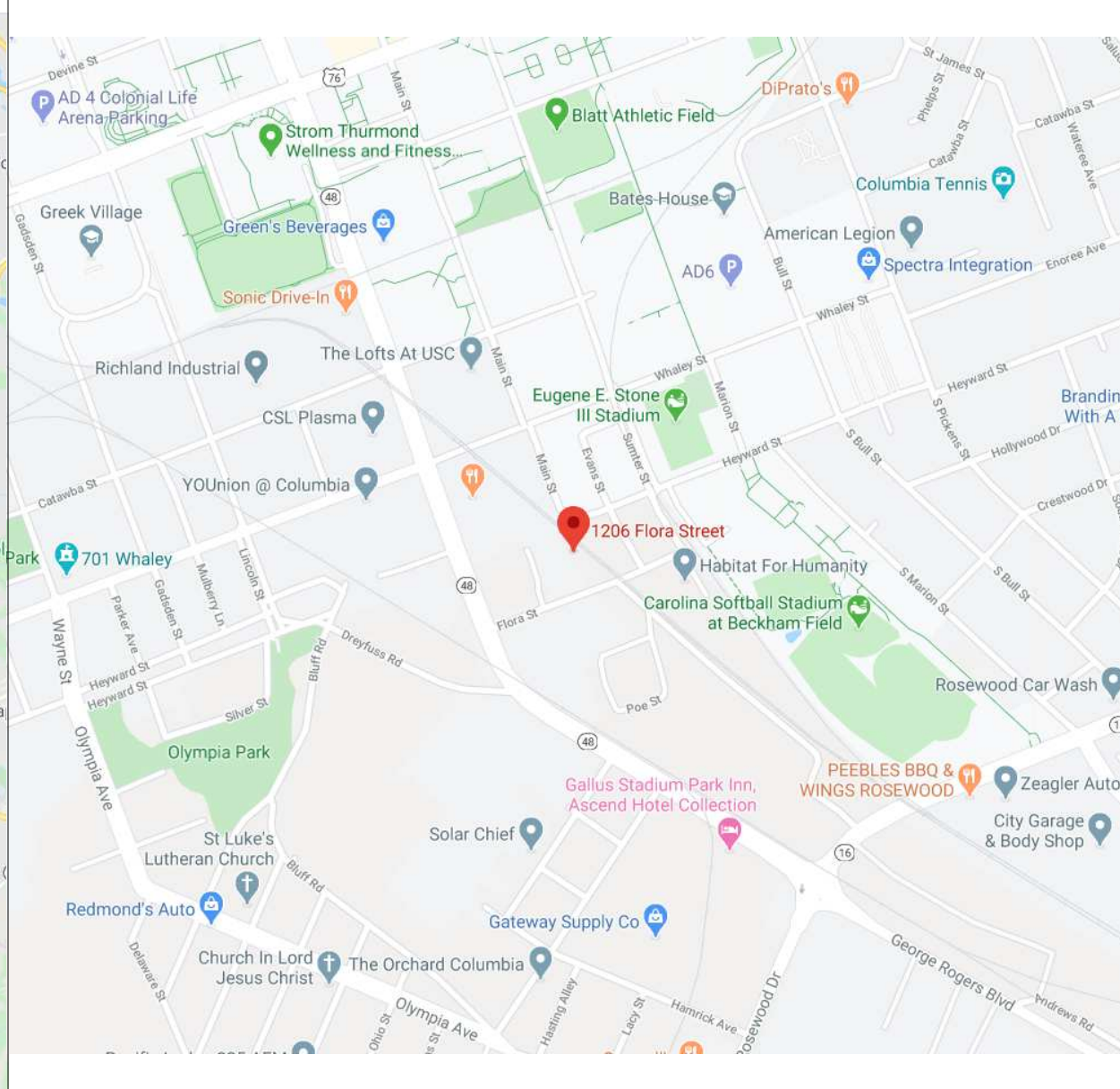
GOODWYN MILLS & CAWOOD ARCHITECT

BELKA ENGINEERING ASSOCIATES ELECTRICAL ENGINEER

VICINITY MAP

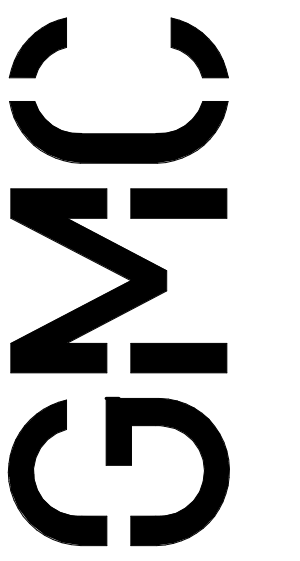


LOCATION MAP



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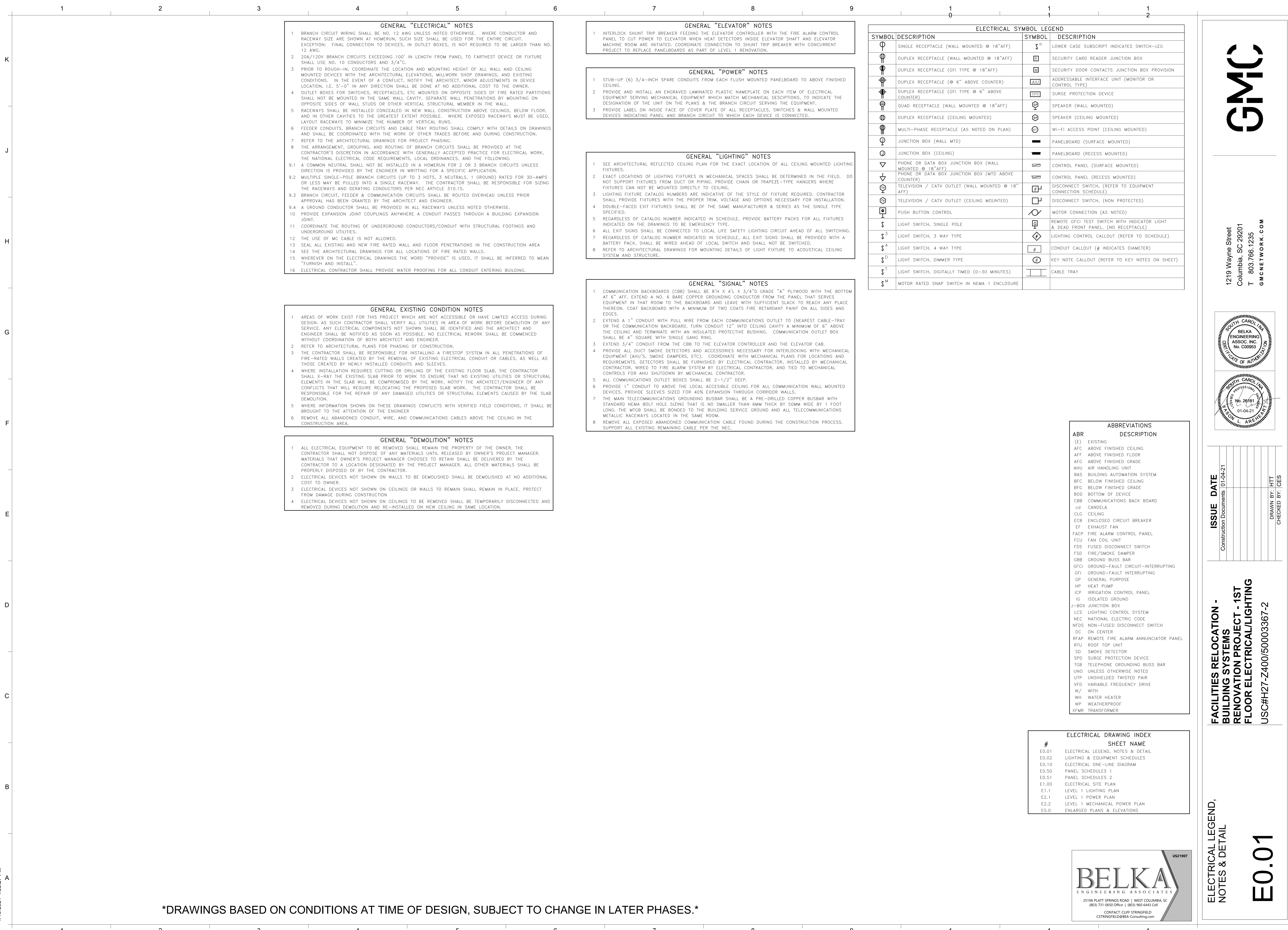
FACILITIES RELOCATION -  
BUILDING SYSTEMS  
RENOVATION PROJECT - 1ST  
FLOOR ELECTRICAL/ LIGHTING  
USC# H27-Z400/ 50003367-2

TITLE SHEET

TS1.1



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**GENERAL "ELECTRICAL" NOTES**

- BRANCH CIRCUIT WIRING SHALL BE NO. 12 AWG UNLESS NOTED OTHERWISE, WHERE CONDUCTOR AND RACEWAY SIZE ARE SHOWN AT HOMERUN, SUCH SIZE SHALL BE USED FOR THE ENTIRE CIRCUIT. EXCEPTION: FINAL CONNECTION TO DEVICES, IN OUTLET BOXES, IS NOT REQUIRED TO BE LARGER THAN NO. 12 AWG.
- 20A/120V BRANCH CIRCUITS EXCEEDING 100' IN LENGTH FROM PANEL TO FARTHEST DEVICE OR FIXTURE SHALL USE NO. 10 CONDUCTORS AND 3/4" C.
- PRIOR TO ROUGH-IN, COORDINATE THE LOCATION AND MOUNTING HEIGHT OF ALL WALL AND CEILING MOUNTED DEVICES WITH THE ARCHITECTURAL ELEVATIONS, MILLWORK SHOP DRAWINGS, AND EXISTING CONDITIONS. IN THE EVENT OF A CONFLICT, NOTIFY THE ARCHITECT. MINOR ADJUSTMENTS IN DEVICE LOCATION, I.E. 5"-0" IN ANY DIRECTION SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER.
- OUTLET BOXES FOR SWITCHES, RECEPTACLES, ETC MOUNTED ON OPPOSITE SIDES OF FIRE RATED PARTITIONS SHALL NOT BE MOUNTED IN THE SAME WALL CAVITY. SEPARATE WALL PENETRATIONS BY MOUNTING ON OPPOSITE SIDES OF WALL STUDS OR OTHER VERTICAL STRUCTURAL MEMBER IN THE WALL.
- RACEWAYS SHALL BE INSTALLED CONCEALED IN NEW WALL CONSTRUCTION ABOVE CEILINGS, BELOW FLOOR, AND IN OTHER CAVITIES TO THE GREATEST EXTENT POSSIBLE, WHERE EXPOSED RACEWAYS MUST BE USED, LAYOUT RACEWAYS TO MINIMIZE THE NUMBER OF VERTICAL RUNS.
- FEEDER CONDUITS, BRANCH CIRCUITS AND CABLE TRAY ROUTING SHALL COMPLY WITH DETAILS ON DRAWINGS AND SHALL BE COORDINATED WITH THE WORK OF OTHER TRADES BEFORE AND DURING CONSTRUCTION.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR PROJECT PHASING.
- THE ARRANGEMENT, GROUPING, AND ROUTING OF BRANCH CIRCUITS SHALL BE PROVIDED AT THE CONTRACTOR'S DISCRETION IN ACCORDANCE WITH GENERALLY ACCEPTED PRACTICE FOR ELECTRICAL WORK, THE NATIONAL ELECTRICAL CODE REQUIREMENTS, LOCAL ORDINANCES, AND THE FOLLOWING:
  - A COMMON NEUTRAL SHALL NOT BE INSTALLED IN A HOMERUN FOR 2 OR 3 BRANCH CIRCUITS UNLESS DIRECTION IS PROVIDED BY THE ENGINEER IN WRITING FOR A SPECIFIC APPLICATION.
  - MULTIPLE SINGLE-POLE BRANCH CIRCUITS (UP TO 3 HOTS, 3 NEUTRALS, 1 GROUND) RATED FOR 30-AMPS OR LESS MAY BE PULLED INTO A SINGLE RACEWAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING THE RACEWAYS AND DERATING CONDUCTORS PER NEC ARTICLE 310.15.
  - BRANCH CIRCUIT, FEEDER & COMMUNICATION CIRCUITS SHALL BE ROUTED OVERHEAD UNLESS PRIOR APPROVAL HAS BEEN GRANTED BY THE ARCHITECT AND ENGINEER.
  - A GROUND CONDUCTOR SHALL BE PROVIDED IN ALL RACEWAYS UNLESS NOTED OTHERWISE.
  - PROVIDE EXPANSION JOINT COUPLINGS ANYWHERE A CONDUIT PASSES THROUGH A BUILDING EXPANSION JOINT.
  - COORDINATE THE ROUTING OF UNDERGROUND CONDUCTORS/CONDUIT WITH STRUCTURAL FOOTINGS AND UNDERGROUND UTILITIES.
  - THE USE OF MC CABLE IS NOT ALLOWED.
  - SEAL ALL EXISTING AND NEW FIRE RATED WALL AND FLOOR PENETRATIONS IN THE CONSTRUCTION AREA
  - SEE THE ARCHITECTURAL DRAWINGS FOR ALL LOCATIONS OF FIRE RATED WALLS.
  - WHEREVER ON THE ELECTRICAL DRAWINGS THE WORD "PROVIDE" IS USED, IT SHALL BE INFERRED TO MEAN "FURNISH AND INSTALL".
  - ELECTRICAL CONTRACTOR SHALL PROVIDE WATER PROOFING FOR ALL CONDUIT ENTERING BUILDING.

**GENERAL EXISTING CONDITION NOTES**

- AREAS OF WORK EXIST FOR THIS PROJECT WHICH ARE NOT ACCESSIBLE OR HAVE LIMITED ACCESS DURING DESIGN. AS SUCH CONTRACTOR SHALL VERIFY ALL UTILITIES IN AREA OF WORK BEFORE DEMOLITION OF ANY SERVICE. ANY ELECTRICAL COMPONENTS NOT SHOWN SHALL BE IDENTIFIED AND THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED AS SOON AS POSSIBLE. NO ELECTRICAL REWORK SHALL BE COMMENCED WITHOUT COORDINATION OF BOTH ARCHITECT AND ENGINEER.
- REFER TO ARCHITECTURAL PLANS FOR PHASING OF CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A FIRESTOP SYSTEM IN ALL PENETRATIONS OF FIRE-RATED WALLS CREATED BY THE REMOVAL OF EXISTING ELECTRICAL CONDUIT OR CABLES, AS WELL AS THOSE CREATED BY NEWLY INSTALLED CONDUITS AND SLEEVES.
- WHERE INSTALLATION REQUIRES CUTTING OR DRILLING OF THE EXISTING FLOOR SLAB, THE CONTRACTOR SHALL X-RAY THE EXISTING SLAB PRIOR TO WORK TO ENSURE THAT NO EXISTING UTILITIES OR STRUCTURAL ELEMENTS IN THE SLAB WILL BE COMPROMISED BY THE WORK. NOTIFY THE ARCHITECT/ENGINEER OF ANY CONFLICTS THAT WILL REQUIRE RELOCATING THE PROPOSED SLAB WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED UTILITIES OR STRUCTURAL ELEMENTS CAUSED BY THE SLAB DEMOLITION.
- WHERE INFORMATION SHOWN ON THESE DRAWINGS CONFLICTS WITH VERIFIED FIELD CONDITIONS, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER
- REMOVE ALL ABANDONED CONDUIT, WIRE, AND COMMUNICATIONS CABLES ABOVE THE CEILING IN THE CONSTRUCTION AREA.

**GENERAL "DEMOLITION" NOTES**

- ALL ELECTRICAL EQUIPMENT TO BE REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER. THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIALS UNTIL RELEASED BY OWNER'S PROJECT MANAGER. MATERIALS THAT OWNER'S PROJECT MANAGER CHOOSES TO RETAIN SHALL BE DELIVERED BY THE CONTRACTOR TO A LOCATION DESIGNATED BY THE PROJECT MANAGER. ALL OTHER MATERIALS SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR.
- ELECTRICAL DEVICES NOT SHOWN ON WALLS TO BE DEMOLISHED SHALL BE DEMOLISHED AT NO ADDITIONAL COST TO OWNER.
- ELECTRICAL DEVICES NOT SHOWN ON CEILINGS OR WALLS TO REMAIN SHALL REMAIN IN PLACE. PROTECT FROM DAMAGE DURING CONSTRUCTION
- ELECTRICAL DEVICES NOT SHOWN ON CEILINGS TO BE REMOVED SHALL BE TEMPORARILY DISCONNECTED AND REMOVED DURING DEMOLITION AND RE-INSTALLED ON NEW CEILING IN SAME LOCATION.

**GENERAL "ELEVATOR" NOTES**

- INTERLOCK SHUNT TRIP BREAKER FEEDING THE ELEVATOR CONTROLLER WITH THE FIRE ALARM CONTROL PANEL TO CUT POWER TO ELEVATOR WHEN HEAT DETECTORS INSIDE ELEVATOR SHAFT AND ELEVATOR MACHINE ROOM ARE INITIATED. COORDINATE CONNECTION TO SHUNT TRIP BREAKER WITH CONCURRENT PROJECT TO REPLACE PANELBOARDS AS PART OF LEVEL 1 RENOVATION.

**GENERAL "POWER" NOTES**

- STUB-UP (6) 3/4-INCH SPARE CONDUITS FROM EACH FLUSH MOUNTED PANELBOARD TO ABOVE FINISHED CEILING.
- PROVIDE AND INSTALL AN ENGRAVED LAMINATED PLASTIC NAMEPLATE ON EACH ITEM OF ELECTRICAL EQUIPMENT SERVING MECHANICAL EQUIPMENT WHICH MATCH MECHANICAL DESCRIPTIONS, TO INDICATE THE DESIGNATION OF THE UNIT ON THE PLANS & THE BRANCH CIRCUIT SERVING THE EQUIPMENT.
- PROVIDE LABEL ON INSIDE FACE OF COVER PLATE OF ALL RECEPTACLES, SWITCHES & WALL MOUNTED DEVICES INDICATING PANEL AND BRANCH CIRCUIT TO WHICH EACH DEVICE IS CONNECTED.

**GENERAL "LIGHTING" NOTES**

- SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR THE EXACT LOCATION OF ALL CEILING MOUNTED LIGHTING FIXTURES.
- EXACT LOCATIONS OF LIGHTING FIXTURES IN MECHANICAL SPACES SHALL BE DETERMINED IN THE FIELD. DO NOT SUPPORT FIXTURES FROM DUCT OR PIPING. PROVIDE CHAIN OR TRAPEZE-TYPE HANGERS WHERE FIXTURES CAN NOT BE MOUNTED DIRECTLY TO CEILING.
- LIGHTING FIXTURE CATALOG NUMBERS ARE INDICATIVE OF THE STYLE OF FIXTURE REQUIRED. CONTRACTOR SHALL PROVIDE FIXTURES WITH THE PROPER TRIM, VOLTAGE AND OPTIONS NECESSARY FOR INSTALLATION.
- DOUBLE-FACED EXIT FIXTURES SHALL BE OF THE SAME MANUFACTURER & SERIES AS THE SINGLE TYPE SPECIFIED.
- REGARDLESS OF CATALOG NUMBER INDICATED IN SCHEDULE, PROVIDE BATTERY PACKS FOR ALL FIXTURES INDICATED ON THE DRAWINGS TO BE EMERGENCY TYPE.
- ALL EXIT SIGNS SHALL BE CONNECTED TO LOCAL LIFE SAFETY LIGHTING CIRCUIT AHEAD OF ALL SWITCHING.
- REGARDLESS OF CATALOG NUMBER INDICATED IN SCHEDULE, ALL EXIT SIGNS SHALL BE PROVIDED WITH A BATTERY PACK, SHALL BE WIRED AHEAD OF LOCAL SWITCH AND SHALL NOT BE SWITCHED.
- REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING DETAILS OF LIGHT FIXTURE TO ACOUSTICAL CEILING SYSTEM AND STRUCTURE.

**GENERAL "SIGNAL" NOTES**

- COMMUNICATION BACKBOARDS (CBB) SHALL BE 8"H X 4'L X 3/4"D GRADE "A" PLYWOOD WITH THE BOTTOM AT 6" AFF. EXTEND A NO. 6 BARE COPPER GROUNDING CONDUCTOR FROM THE PANEL THAT SERVES EQUIPMENT IN THAT ROOM TO THE BACKBOARD AND LEAVE WITH SUFFICIENT SLACK TO REACH ANY PLACE THEREON. COAT BACKBOARD WITH A MINIMUM OF TWO COATS FIRE RETARDANT PAINT ON ALL SIDES AND EDGES.
- EXTEND A 1" CONDUIT WITH PULL WIRE FROM EACH COMMUNICATIONS OUTLET TO (NEAREST CABLE-TRAY OR THE COMMUNICATION BACKBOARD. TURN CONDUIT 12" INTO CEILING CAVITY & MINIMUM OF 6" ABOVE THE CEILING AND TERMINATE WITH AN INSULATED PROTECTIVE BUSHING. COMMUNICATION OUTLET BOX SHALL BE 4" SQUARE WITH SINGLE GANG RING.
- EXTEND 3/4" CONDUIT FROM THE CBB TO THE ELEVATOR CONTROLLER AND THE ELEVATOR CAB.
- PROVIDE ALL DUCT SMOKE DETECTORS AND ACCESSORIES NECESSARY FOR INTERLOCKING WITH MECHANICAL EQUIPMENT (AHU'S, SMOKE DAMPERS, ETC). COORDINATE WITH MECHANICAL PLANS FOR LOCATIONS AND REQUIREMENTS. DETECTORS SHALL BE FURNISHED BY ELECTRICAL CONTRACTOR, INSTALLED BY MECHANICAL CONTRACTOR, WIRED TO FIRE ALARM SYSTEM BY ELECTRICAL CONTRACTOR, AND TIED TO MECHANICAL CONTROLS FOR AHU SHUTDOWN BY MECHANICAL CONTRACTOR.
- ALL COMMUNICATIONS OUTLET BOXES SHALL BE 2-1/2" DEEP.
- PROVIDE 1" CONDUIT TO ABOVE THE LOCAL ACCESSIBLE CEILING FOR ALL COMMUNICATION WALL MOUNTED DEVICES. PROVIDE SLEEVES SIZED FOR 40% EXPANSION THROUGH CORRIDOR WALLS.
- THE MAIN TELECOMMUNICATIONS GROUNDING BUSBAR SHALL BE A PRE-DRILLED COPPER BUSBAR WITH STANDARD NEMA BOLT HOLE SIZING THAT IS NO SMALLER THAN 6MM THICK BY 50MM WIDE BY 1 FOOT LONG. THE MTGB SHALL BE BONDED TO THE BUILDING SERVICE GROUND AND ALL TELECOMMUNICATIONS METALLIC RACEWAYS LOCATED IN THE SAME ROOM.
- REMOVE ALL EXPOSED ABANDONED COMMUNICATION CABLE FOUND DURING THE CONSTRUCTION PROCESS. SUPPORT ALL EXISTING REMAINING CABLE PER THE NEC.

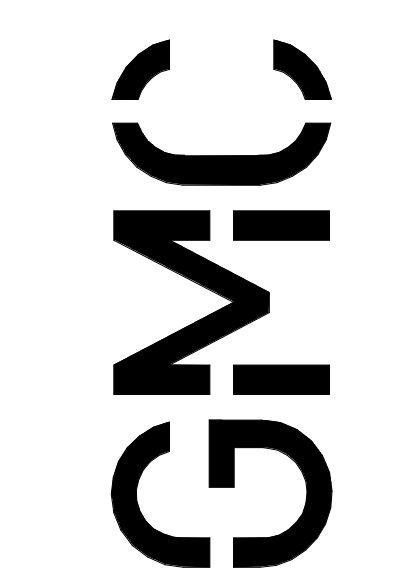
ELECTRICAL SYMBOL LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SINGLE RECEPTACLE (WALL MOUNTED @ 18" AFF)		LOWER CASE SUBSCRIPT INDICATES SWITCH-LEG
	DUPLEX RECEPTACLE (WALL MOUNTED @ 18" AFF)		SECURITY CARD READER JUNCTION BOX
	DUPLEX RECEPTACLE (GFI TYPE @ 18" AFF)		SECURITY DOOR CONTACTS JUNCTION BOX PROVISION
	DUPLEX RECEPTACLE (@ 6" ABOVE COUNTER)		ADDRESSABLE INTERFACE UNIT (MONITOR OR CONTROL TYPE)
	DUPLEX RECEPTACLE (GFI TYPE @ 6" ABOVE COUNTER)		SURGE PROTECTION DEVICE
	QUAD RECEPTACLE (WALL MOUNTED @ 18" AFF)		SPEAKER (WALL MOUNTED)
	DUPLEX RECEPTACLE (CEILING MOUNTED)		SPEAKER (CEILING MOUNTED)
	MULTI-PHASE RECEPTACLE (AS NOTED ON PLAN)		WI-FI ACCESS POINT (CEILING MOUNTED)
	JUNCTION BOX (WALL MTD)		PANELBOARD (SURFACE MOUNTED)
	JUNCTION BOX (CEILING)		PANELBOARD (RECESS MOUNTED)
	PHONE OR DATA BOX JUNCTION BOX (WALL MOUNTED @ 18" AFF)		CONTROL PANEL (SURFACE MOUNTED)
	PHONE OR DATA BOX JUNCTION BOX (MTD ABOVE COUNTER)		CONTROL PANEL (RECESS MOUNTED)
	TELEVISION / CATV OUTLET (WALL MOUNTED @ 18" AFF)		DISCONNECT SWITCH, (REFER TO EQUIPMENT CONNECTION SCHEDULE)
	TELEVISION / CATV OUTLET (CEILING MOUNTED)		DISCONNECT SWITCH, (NON PROTECTED)
	PUSH BUTTON CONTROL		MOTOR CONNECTION (AS NOTED)
	LIGHT SWITCH, SINGLE POLE		REMOTE GFCI TEST SWITCH WITH INDICATOR LIGHT & DEAD FRONT PANEL. (NO RECEPTACLE)
	LIGHT SWITCH, 3 WAY TYPE		LIGHTING CONTROL CALLOUT (REFER TO SCHEDULE)
	LIGHT SWITCH, 4 WAY TYPE		CONDUIT CALLOUT (# INDICATES DIAMETER)
	LIGHT SWITCH, DIMMER TYPE		KEY NOTE CALLOUT (REFER TO KEY NOTES ON SHEET)
	LIGHT SWITCH, DIGITALLY TIMED (0-30 MINUTES)		CABLE TRAY
	MOTOR RATED SNAP SWITCH IN NEMA 1 ENCLOSURE		

**ABBREVIATIONS**

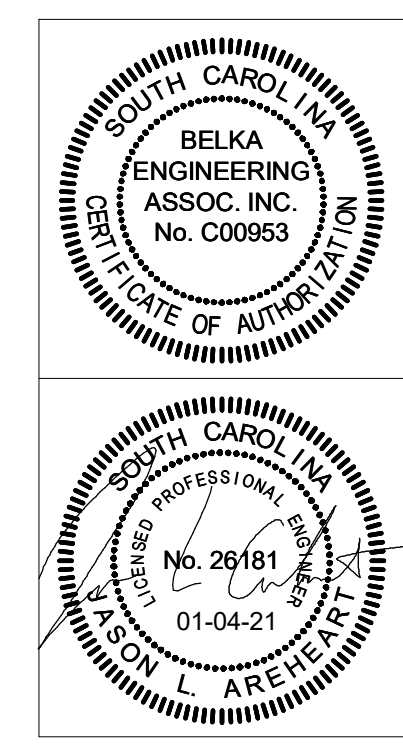
ABR	DESCRIPTION
(E)	EXISTING
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
BAS	BUILDING AUTOMATION SYSTEM
BFC	BELOW FINISHED CEILING
BFG	BELOW FINISHED GRADE
BOD	BOTTOM OF DEVICE
CBB	COMMUNICATIONS BACK BOARD
cd	CANDELA
CLO	CEILING
ECB	ENCLOSED CIRCUIT BREAKER
EF	EXHAUST FAN
FACP	FIRE ALARM CONTROL PANEL
FCU	FAN COIL UNIT
FDS	FUSED DISCONNECT SWITCH
FSD	FIRE/SMOKE DAMPER
GBB	GROUND BUSS BAR
GFCI	GROUND-FAULT CIRCUIT-INTERRUPTING
GFI	GROUND-FAULT INTERRUPTING
GP	GENERAL PURPOSE
HP	HEAT PUMP
ICP	IRRIGATION CONTROL PANEL
IG	ISOLATED GROUND
J-BOX	JUNCTION BOX
LCS	LIGHTING CONTROL SYSTEM
NEC	NATIONAL ELECTRIC CODE
NFDS	NON-FUSED DISCONNECT SWITCH
OC	ON CENTER
RFAP	REMOTE FIRE ALARM ANNUNCIATOR PANEL
RTU	ROOF TOP UNIT
SD	SMOKE DETECTOR
SPD	SURGE PROTECTION DEVICE
TGB	TELEPHONE GROUNDING BUSS BAR
UNO	UNLESS OTHERWISE NOTED
UTP	UNSHIELDED TWISTED PAIR
VFD	VARIABLE FREQUENCY DRIVE
W/	WITH
WH	WATER HEATER
WP	WEATHERPROOF
XFMR	TRANSFORMER

**ELECTRICAL DRAWING INDEX**

#	SHEET NAME
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ISSUE DATE	DESCRIPTION
01-04-21	Construction Documents

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**FACILITIES RELOCATION - BUILDING SYSTEMS RENOVATION PROJECT - 1ST FLOOR ELECTRICAL/LIGHTING**  
USC#H27-Z400/50003367-2

ELECTRICAL LEGEND, NOTES & DETAIL

**E0.01**



\*DRAWINGS BASED ON CONDITIONS AT TIME OF DESIGN, SUBJECT TO CHANGE IN LATER PHASES.\*

EQUIPMENT CONNECTION SCHEDULE											
UNIT I.D.	CONNECTION DESCRIPTION	ELECTRICAL SUMMARY			DISCONNECT SUMMARY					NOTES	
		VOLTAGE	# OF POLES	LOAD (VA)	FURN. BY	DISC. TYPE	DISC. RATING	TRIP / FUSE	NEMA RATING		
AHU-3	DUCTLESS AHU	208 V	2	4992	E	—	30 A	30	—	1	1,6,7
DC-1	DUST COLLECTOR SYSTEM	208 V	3	3962	E	—	—	—	—	—	1
DX-VAV-3	PACKAGE VAV	480 V	3	9000	M	—	—	—	—	—	2
EF-6	CEILING EXHAUST FAN	120 V	1	135	M	—	—	—	—	—	2,4
EF-7	CEILING EXHAUST FAN	120 V	1	83	M	—	—	—	—	—	2,4
EF-8	CEILING EXHAUST FAN	120 V	1	135	M	—	—	—	—	—	2,4
EF-9	CEILING EXHAUST FAN	120 V	1	83	M	—	—	—	—	—	2,4
EF-10	ROOF EXHAUST FAN	208 V	3	2701	E	NF	30 A	—	—	1	1,5
EF-11	WALL EXHAUST FAN	208 V	3	2701	E	NF	30 A	—	—	1	1,5
EF-12	CEILING EXHAUST FAN	120 V	1	1656	E	NF	20 A	—	—	1	1,5
EF-13	CEILING EXHAUST FAN	120 V	1	1656	E	NF	20 A	—	—	1	1,5
EF-14	CEILING EXHAUST FAN	120 V	1	59	E	NF	—	—	—	1	2,4
EF-15	CEILING EXHAUST FAN	120 V	1	128	M	—	—	—	—	—	1
ELEVATOR	ELEVATOR	480 V	3	66508	E	—	100 A	—	—	—	1,3
ELEVATOR CAB LIGHTS	ELEVATOR CAB LIGHTS	120 V	1	1000	E	F	30 A	15	—	1	2
ELV SP-1	ELEVATOR SUMP PUMP	480 V	3	1745	E	NF	—	—	—	3R	2
PHP-1	PACKAGE HEAT PUMP	480 V	3	18000	M	—	60 A	—	—	—	2
RECIRC PUMP RCP-1	RECIRCULATING PUMP	120 V	1	300	E	NF	30 A	—	—	1	1
RECIRC PUMP RCP-2	RECIRCULATING PUMP	120 V	1	300	E	NF	30 A	—	—	1	1
RH-1	RADIANT HEATER	120 V	1	468	E	NF	30 A	—	—	1	1
RH-2	RADIANT HEATER	120 V	1	900	E	NF	30 A	—	—	1	1
RH-3	RADIANT HEATER	120 V	1	900	E	NF	30 A	—	—	1	1
RH-4	RADIANT HEATER	120 V	1	900	E	NF	30 A	—	—	1	1
RH-5	RADIANT HEATER	120 V	1	900	E	NF	30 A	—	—	1	1
RH-6	RADIANT HEATER	120 V	1	900	E	NF	—	—	—	1	1
SHP-3	SPLIT HEAT PUMP	208 V	2	4992	E	F	—	30	—	3R	1,6,7
UH-1	RADIANT HEATER	120 V	1	468	E	NF	—	—	—	1	1
VAV-3-1	VARIABLE AIR VOLUME BOX	480 V	3	8000	M	—	—	—	—	—	2
VAV-3-2	VARIABLE AIR VOLUME BOX	480 V	3	6000	M	—	—	—	—	—	2
VAV-3-3	VARIABLE AIR VOLUME BOX	480 V	3	4000	M	—	—	—	—	—	2
VAV-3-4	VARIABLE AIR VOLUME BOX	480 V	3	5000	M	—	—	—	—	—	2
VAV-3-5	VARIABLE AIR VOLUME BOX	480 V	3	3000	M	—	—	—	—	—	2
VF-1	CEILING EXHAUST FAN	120 V	1	288	M	—	—	—	—	—	2,4
VF-2	CEILING EXHAUST FAN	120 V	1	288	M	—	30 A	—	—	—	2,4
WH-1	WATER HEATER	208 V	2	4160	E	NF	60 A	—	—	1	1
WH-2	WATER HEATER	208 V	2	6240	E	NF	60 A	—	—	1	1
WH-3	WATER HEATER	208 V	2	8320	E	NF	60 A	—	—	1	1
WH-4	WATER HEATER	208 V	2	4500	E	NF	60 A	—	—	1	1

- EQUIPMENT CONNECTION SCHEDULE NOTES**
- ALL SWITCHES SHALL BE GENERAL DUTY TYPE, FUSIBLE UNLESS NOTED WITH "NF" (NON-FUSIBLE).
  - "M" DENOTES DISCONNECT SWITCH INTEGRAL WITH MECHANICAL EQUIPMENT. "E" DENOTES DISCONNECT SWITCH TO BE PROVIDED BY ELECTRICAL CONTRACTOR.
  - ELEVATOR EQUIPMENT ROOM DISCONNECTS SHALL HAVE AUXILIARY CONTACT WITH TWO WIRE CONTROL CIRCUIT TO ELEVATOR UNIT.
  - EF-6 THRU EF-9 AND VF-1 ARE FACTORY SUPPLIED WITH A PLUG TYPE DISCONNECT FOR THE FAN.
  - STARTER SUPPLIED BY MECHANICAL CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR.
  - EXISTING UNIT BEING RELOCATED, PROVIDE NEW DISCONNECT SWITCH, CONFIRM RATINGS IN FIELD AND MATCH ELECTRICAL EQUIPMENT SIZE TO EXISTING RATINGS.
  - CONTRACTOR SHALL FIELD VERIFY DISCONNECT RATING, MCA, AND MOCIP WITH EXISTING UNIT.

LIGHT FIXTURE SCHEDULE											
SYMBOL	TYPE	FIXTURE SPECIFICATIONS			CAT. #	LAMPING		ELECTRICAL		MOUNTING REMARKS	NOTES
		DESCRIPTION	MANUFACTURER	NO.		LAMP TYPE	FIXT. LOAD	VOLTS			
○	A4	2X4 LED FLATPANEL	HE WILLIAMS	LP-24-L50/835-DIM-UNV	—	LED, 835, 5000LM	48	277 V	RECESS MTD IN GRID	1,2,3,4	
◻	A4E	SAME AS "A4" EXCEPT WITH CONNECTION TO GENERATOR	HE WILLIAMS	LP-24-L50/835-DIM-UNV	—	LED, 835, 5000LM	48	277 V	RECESS MTD IN GRID	1,2,3,4,5	
◻	A4FE	2X4 LED FLATPANEL WITH CONNECTION TO GENERATOR	HE WILLIAMS	LP-24-L50/835-LP24SMK-DIM-UNV	—	LED, 835, 5000LM	48	277 V	SURFACE MTD ON CEILING	1,2,3,4,5	
○	A42	2X4 LED FLATPANEL	HE WILLIAMS	LP-24-L62/835-DIM-UNV	—	LED, 835, 6200LM	48	277 V	RECESS MTD IN GRID	1,2,3,4	
◻	A42E	2X4 LED FLATPANEL WITH CONNECTION TO GENERATOR	HE WILLIAMS	LP-24-L62/835-DIM-UNV	—	LED, 835, 6200LM	48	277 V	RECESS MTD IN GRID	1,2,3,4,5	
—	H	LINEAR STRIP	KENALL	HSES014-50L35K-V-2F-2H-SYM	—	LED, 835, 6150LM	50	277 V	MTD ON WALL	1,2,4	
○	J	LED COMPACT MODULAR HIGH BAY	HE WILLIAMS	GH-2-L240/835-FA-DIM-UNV	—	LED, 835, 23470LM	178	277 V	PENDANT MTD AT 10' AFF	1,2,3,4	
◻	J4E	4' WALL LIGHT WITH CONNECTION TO GENERATOR	HE WILLIAMS	SLF-4-L52/835-HIA-DIM-UNV	—	LED, 835, 5200LM	37	277 V	MTD ON WALL	1,2,3,4,5	
—	J8	8' PENDANT LINEAR LED	HE WILLIAMS	76-8-L64/835-DIM-UNV	—	LED, 835, 6400LM	42	277 V	PENDANT MTD AT 10' AFF	1,2,3,4	
—	J8E	8' PENDANT LINEAR LED WITH CONNECTION TO GENERATOR	HE WILLIAMS	76-8-L64/835-DIM-UNV	—	LED, 835, 6400LM	42	277 V	PENDANT MTD AT 10' AFF	1,2,3,4,5	
◻	JE	SAME AS "J" EXCEPT WITH CONNECTION TO GENERATOR	HE WILLIAMS	GH-2-L240/835-FA-DIM-UNV	—	LED, 835, 23470LM	178	277 V	PENDANT MTD AT 10' AFF	1,2,3,4,5	
◻	UE	WALL PACK	HE WILLIAMS	WPAL-L49/850-BZ-EM/6-W-DIM-PC-NV	—	LED, 835, 4900LM	69	277 V	MTD ON WALL AT 7'-6"	1,2,3,4,5	
⊗	X1	EXIT SIGN WITH CONNECTION TO GENERATOR	HE WILLIAMS	EXIT-R-AC-WHT-D	—	LED	3	277 V	SURFACE MTD ON CEILING	1,2,3,4	
⊗	X2	EXIT SIGN WITH CONNECTION TO GENERATOR	HE WILLIAMS	EXIT-R-AC-WHT-D	—	LED	6	277 V	END MOUNTED	1,2,3,4	
⊗	X3	EXIT SIGN WITH CONNECTION TO GENERATOR	HE WILLIAMS	EXIT-R-AC-WHT-D	—	LED	6	277 V	MTD ON WALL	1,2,3,4	

- LIGHT FIXTURE SCHEDULE NOTES**
- LUMENS LISTED IN SCHEDULE REPRESENT DELIVERED LUMENS OF FIXTURES.
  - THREE DIGIT NUMBERS LISTED IN LAMP COLUMN REPRESENT CRI AND COLOR TEMPERATURE. FIRST DIGIT INDICATES MINIMUM CRI AND LAST TWO DIGITS INDICATE COLOR TEMPERATURE. EXAMPLE: 830 INDICATES MINIMUM CRI OF 80 AND A COLOR TEMPERATURE OF 3000K.
  - SEE ARCHITECTURAL RCP AND ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHTS.
  - FIXTURES IN SWITCHED SPACES SHALL BE EQUIPPED WITH GTO'S.

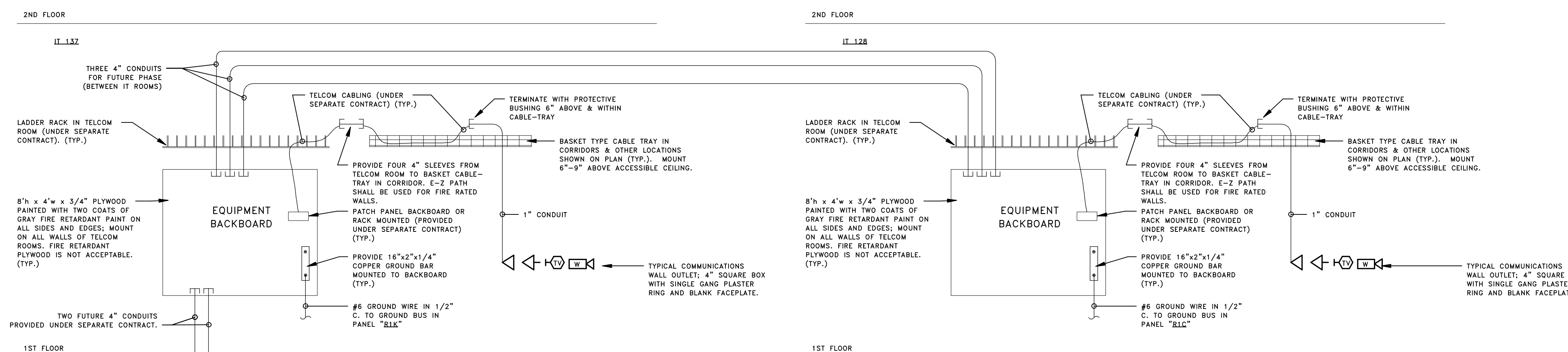
LIGHTING CONTROL SCHEME LEGEND										
MARK	MANUAL / WALL STATION(S)	MULTI-LEVEL SWITCHED/ZONED	OCCUPANCY SENSOR	VACANCY SENSOR	SCHEDULED AUTO-ON	SCHEDULED AUTO-OFF	DAYLIGHT CONTROL ON / OFF	DAYLIGHT DIMMED	PLUGLOAD CONTROL	NOTES
1	Yes	No	No	No	No	No	No	No	No	1,3
2	Yes	No	No	Yes	No	No	No	No	No	1,4,5
3	Yes	No	Yes	No	No	No	No	No	No	1,4,5
4	No	No	Yes	No	Yes	Yes	No	No	No	1,2,3,6

SEE DIAMOND SYMBOL ON LIGHTING PLANS THAT CORRESPONDS WITH CONTROL SCHEME (TYP.)

- LIGHTING CONTROL SCHEME NOTES**
- MANUAL WALL SWITCH MAY BE PART OF THE LIGHTING CONTROLS. REFER TO PLANS FOR MANUAL WALL STATION LOCATION(S) IN EACH SPACE.
  - SCHEDULED ON / OFF DURING BUSINESS HOURS. OCCUPANCY SENSOR CONTROLLED AFTER HOURS.
  - NO AUTOMATIC CONTROL SHALL BE UTILIZED IN THIS SPACE FOR SAFETY CONCERNS.
  - ROOMS WITH DIMMING TYPE SWITCHES SHOWN IN PLAN WILL REQUIRE DIMMING CONTROL.
  - SET DELAYS FOR ALL OCCUPANCY AND VACANCY SENSORS TO 20-MINS.
  - STAIRWAY LIGHTING SHALL BE CONTROLLED BY INTEGRAL OCCUPANCY SENSORS IN FIXTURES IN HIGH-LOW LUMEN FORMAT.

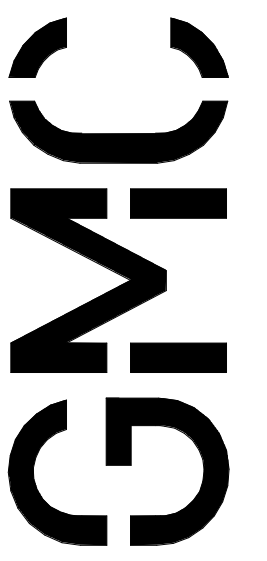
SPECIALTY RECEPTACLE SCHEDULE					
UNIT I.D.	ELECTRICAL SUMMARY			NEMA PLUG TYPE	NOTES
	VOLTS	# OF POLES	LOAD (VA)		
DRYER	208 V	2	6000	14-30R	
DRYER	208 V	2	6000	14-30R	
	208 V	2	2200	DED	
	208 V	2	2200	DED	

- GENERAL COMMUNICATIONS SYSTEM NOTES**
- COMMUNICATIONS SYSTEM SHALL CONSIST OF BOXES, RACEWAYS, AND CABLE-TRAY. CABLING, TERMINATIONS AND EQUIPMENT SHALL BE PROVIDED UNDER A SEPARATE CONTRACT WITH THE OWNER.
  - MINIMUM RACEWAY SIZE FOR ALL COMMUNICATIONS SYSTEM OUTLETS IS 1". PROVIDE PROTECTIVE BUSHINGS ON EACH END OF ALL RACEWAYS.
  - THERE SHALL BE NO MORE THAN 180-DEGREES OF BENDS BETWEEN PULL POINTS FOR COMMUNICATIONS PATHS.
  - TYPICAL FOR ALL AREAS CONTAINING FLOATING CEILINGS. PROVIDE (3) 4" CONDUITS INTERCEPTING CABLE TRAY FOR THROUGH WALL PENETRATIONS. CONDUITS SHALL EXTEND TO 24" BEYOND FLOATING CEILING TO REDUCE VISIBILITY OF CABLING THROUGH GAPS IN FLOATING CEILING.
  - RACEWAYS VISIBLE FROM BELOW SHALL BE PAINTED TO MATCH SURROUNDING FINISH. ROUTE RACEWAYS TO BE PARALLEL AND PERPENDICULAR TO BUILDING LINES.
  - RACEWAYS FOR TELCOM CABLING THAT ARE ROUTED BELOW SLAB ON GRADE SHALL BE ROUTED COMPLETE FROM TERMINATION DEVICE TO TELCOM CLOSET. ASSUME CABLING LISTED FOR UNDERGROUND USE WILL NOT BE PLENUM RATED AND THEREFORE CANNOT BE ROUTED THROUGH CABLE-TRAY.
  - RACEWAYS FOR TELCOM CABLING THAT ARE ROUTED BELOW ELEVATED SLAB SHALL BE ROUTED COMPLETE FROM TERMINATION DEVICE TO TELCOM CLOSET, OR MAY BE ROUTED UP TO ABOVE CEILING OF FLOOR THAT OUTLETS ARE ACCESSED ON. CONCEAL RACEWAY IN WALL AND TERMINATE AT NEAREST CABLE-TRAY.
  - CONDUIT SLEEVES SHALL BE USED IN LIEU OF CABLE TRAY WHEN OVER GYP. CEILINGS.
  - ALL EMPTY CONDUITS SHALL HAVE PULL STRINGS.

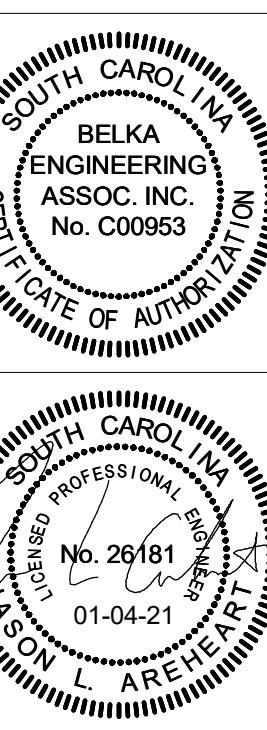


1 COMMUNICATIONS RISER DIAGRAM  
SCALE: NOT TO SCALE

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Construction Documents 01-04-21  
DRAWN BY: HIT  
CHECKED BY: CES

FACILITIES RELOCATION -  
BUILDING SYSTEMS  
RENOVATION PROJECT - 1ST  
FLOOR ELECTRICAL/LIGHTING  
USC#H27-Z400/50003367-2

LIGHTING &  
EQUIPMENT  
SCHEDULES  
E0.02

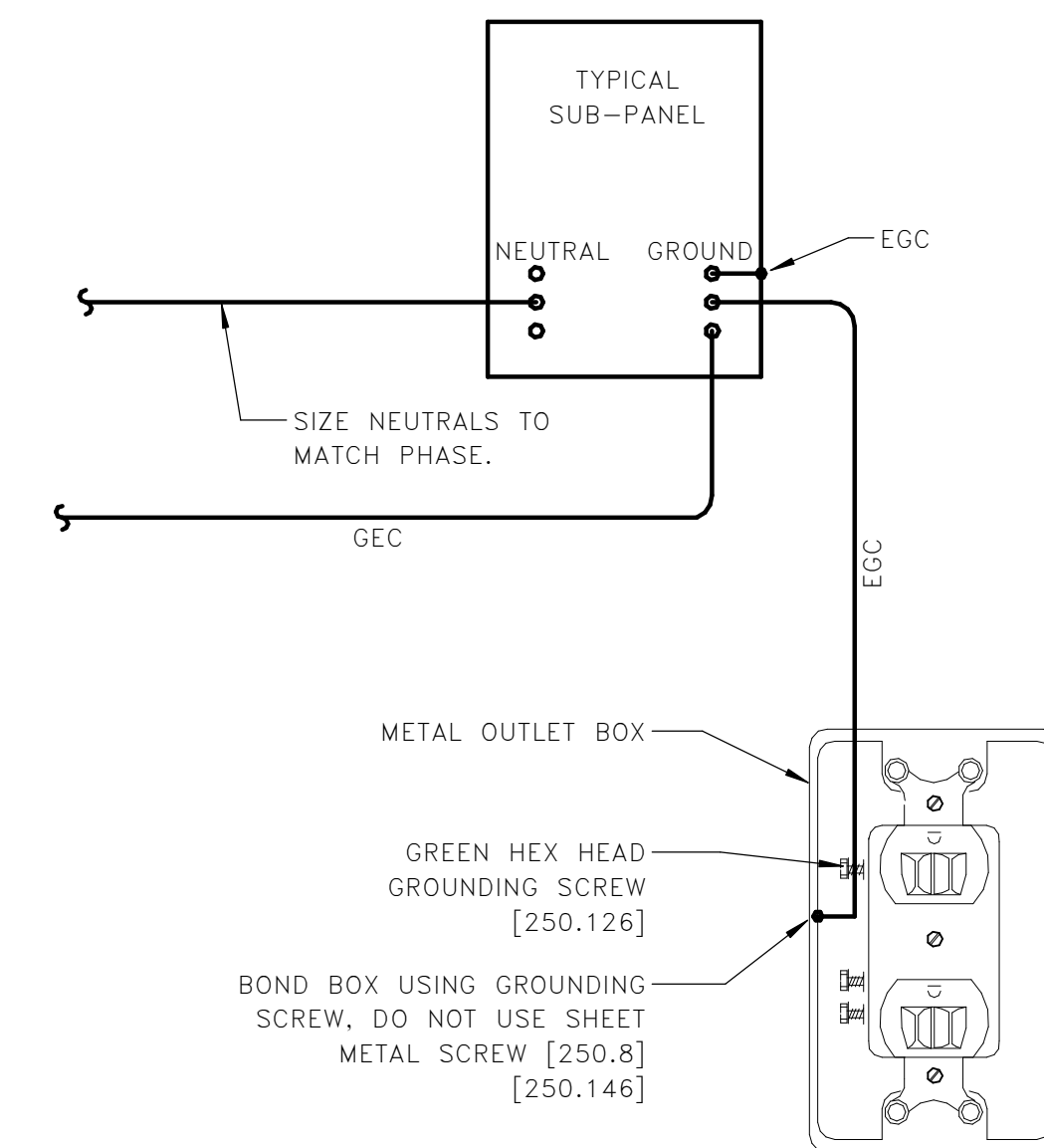


DIAGRAM PROVIDES OVERALL VIEW OF BUILDING GROUNDING SYSTEM. EQUIPMENT SHALL BE GROUNDED BASED ON ITS PORTION OF THIS DIAGRAM.

- GROUNDING NOTES:**
- NUMBERS IN BRACKETS REFER TO SPECIFIC SECTIONS OF THE NATIONAL ELECTRICAL CODE.
  - ALL UNDERGROUND OR OTHERWISE INACCESSIBLE GROUND CONNECTIONS AND SPLICES SHALL BE EXOTHERMICALLY WELDED [250.68].
  - PROVIDE A GROUND WIRE IN ALL CONDUITS.
  - EARTH SHALL NOT BE USED AS THE SOLE GROUND RETURN PATH FOR ANY EQUIPMENT POWERED UNDER THIS PROJECT.
  - NO ALUMINUM SHALL BE USED FOR GROUNDING WORK WITHOUT THE SPECIFIC WRITTEN PERMISSION OF THE ENGINEER. EXCEPTION: ALUMINUM BUILDING STRUCTURAL MATERIALS SHALL BE BONDED WITH LISTED ALUMINUM EQUIPMENT WITH ALUMINUM TO COPPER CONNECTORS FOR ROUTING COPPER EGC'S.
  - PROVIDE GROUNDING BUSHING ON BOTH ENDS OF ALL SERVICE ENTRANCE RACEWAYS. SIZE AS A GEC [250.80]. THIS INCLUDES RIGID STEEL ELBOWS ON PVC CONDUIT.
  - ALL METAL ENCLOSURES AND RACEWAYS SHALL BE BONDED TO GROUND [250.86]. FOR CIRCUITS OVER 250V PROVIDE BOND PER [250.97]. STANDARD LOCKNUTS ARE NOT ACCEPTABLE.
  - PROVIDE EGC CONNECTED TO ANY JUNCTION BOX WHERE SPLICE IS MADE [250.148] OR WHERE A DEVICE IS INSTALLED.
  - PROVIDE BOND TO EXPOSED METAL ON ALL MOTORS, PUMPS, AND LIGHTING FIXTURES PER [250.112].

GROUNDING LEGEND		
ABBR.	DESCRIPTION	SIZE
MBJ	MAIN BONDING JUMPER	3/0
SBJ	SYSTEM BONDING JUMPER	*
SSBJ	SUPPLY SIDE BONDING JUMPER	2/0
GEC	GROUNDING ELECTRODE CONDUCTOR	3/0
EGC	EQUIPMENT GROUNDING CONDUCTOR	**
* SIZE PER TABLE 250.66 OF THE NEC OR 12.5% OF CONDUCTOR SIZE [250.28].		
** SIZE PER TABLE 250.122.		

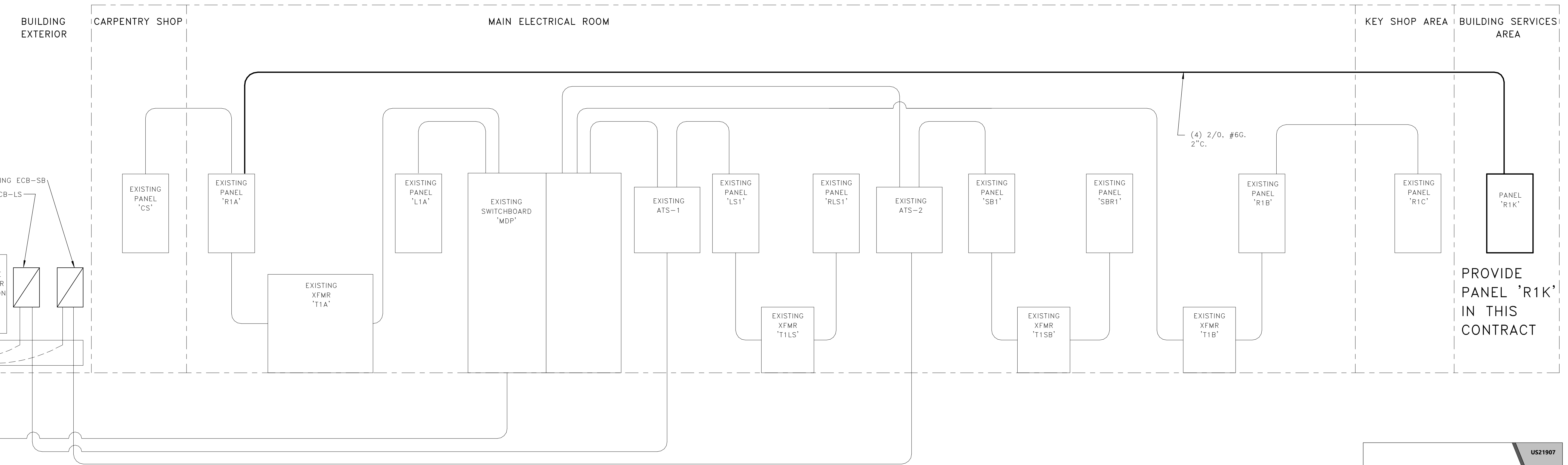
2 GROUNDING DETAIL  
E0.10 SCALE: 12" = 1'-0"

MAIN LUGS DISTRIBUTION SYSTEMS								
PANEL	DISTRIBUTION	PHASE	# OF WIRES	MAINS	MCB	SCCR	FED FROM	REMARKS
L1A	480 V/3-0	3	4	125 A	125 A	35,000	MDP	
SB1	480 V/3-0	3	4	100 A	225 A	35,000	MDP	
R1K	208 V/3-0	3	4	150 A	150 A	10,000	R1A	NEW PANEL INSTALLED UNDER THIS CONTRACT.
R1C	208 V/3-0	3	4	125 A	125 A	10,000	T1B	
RSB1	208 V/3-0	3	4	100 A	100 A	10,000	T1SB	

MAIN BREAKER DISTRIBUTION SYSTEMS								
PANEL	DISTRIBUTION	PHASE	# OF WIRES	MAINS	MCB	SCCR	FED FROM	REMARKS
MDP	480 V/3-0	3	4	2000 A	2000 A	65,000	UTILITY	
LS1	480 V/3-0	3	4	100 A	100 A	35,000	MDP	
R1A	208 V/3-0	3	4	400 A	400 A	22,000	T1A	
CS	208 V/3-0	3	4	225 A	225 A	10,000	R1A	
R1B	208 V/3-0	3	4	225 A	225 A		T1B	
RLS1	208 V/3-0	3	4	100 A	50 A	10000	EXISTING T1LS	

**ELECTRICAL SERVICE GENERAL NOTES:**

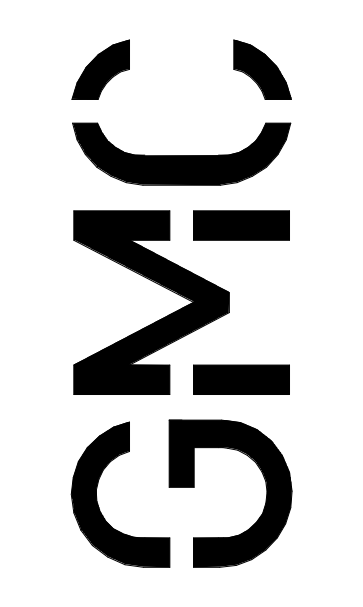
1. ELECTRICAL SERVICE EQUIPMENT AND ELECTRICAL PANELS NOTED AS EXISTING SHALL BE INSTALLED UNDER A SEPARATE CONTRACT. COORDINATE ALL ELECTRICAL CIRCUIT INSTALLATION WITH CONTRACTOR INSTALLING THE ELECTRICAL SERVICE EQUIPMENT AND ELECTRICAL PANELS. PANEL 'R1K' SHALL BE PROVIDED AS PART OF THIS CONTRACT.



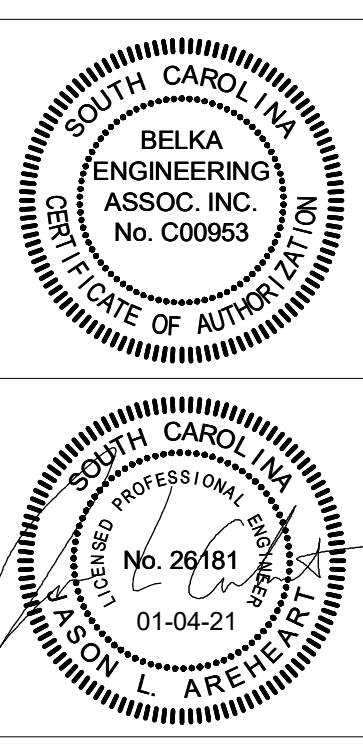
1 POWER ONE-LINE DIAGRAM  
E0.10 NOT TO SCALE

NOTE: DRAWINGS BASED ON CONDITIONS AT TIME OF DESIGN, SUBJECT TO CHANGE IN LATER PHASES.

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ISSUE DATE	DESCRIPTION
01-04-21	Construction Documents

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CHECKED BY: CES

**FACILITIES RELOCATION -  
BUILDING SYSTEMS  
RENOVATION PROJECT - 1ST  
FLOOR ELECTRICAL/LIGHTING**  
USC#H27-Z400/50003367-2

ELECTRICAL ONE-LINE  
DIAGRAM

E0.10



EXISTING SWITCHBOARD: <b>MDP</b>		VOLTS: 480/277 Wye		A.I.C. RATING: 65,000		
SUPPLY FROM:		PHASES: 3		MAINS TYPE: MCB		
ENCLOSURE: Type 1		WIRES: 4		MAINS RATING: 2000 A		
				MCB RATING: 2000 A		
CKT	DESCRIPTION	POLES	FRAME	TRIP	Load	COMMENTS
1	PREPARED SPACE	--	--	--	0.00	
2	X-FMR "T1A" TO PANEL "R1A"	3	400 A	225 A	84.80	
3	X-FMR "T1B" TO PANELS "R1B" & "R1C"	3	200 A	125 A	33.56	
4	PANEL "L1A"	3	200 A	125 A	36.04	
5	PREPARED SPACE	--	--	--	0.00	
6	PREPARED SPACE	--	--	--	0.00	
7	PANEL "LS1/LS2"	3	200 A	125 A	7.77	
8	PREPARED SPACE	--	--	--	0.00	
9	SB1	3	400 A	225 A	1.86	
10	PREPARED SPACE	--	--	--	0.00	
11	VAV-1-1, VAV-1-2, VAV-1-3, VAV-1-4	3	100 A	40 A	23.00	
12	EXISTING ELEVATOR SHUNT-TRIP BREAKER	3	100 A	100 A	66.51	
13	PREPARED SPACE	--	--	--	0.00	
14	PREPARED SPACE	--	--	--	0.00	
15	PREPARED SPACE	--	--	--	0.00	
16	PREPARED SPACE	--	--	--	0.00	
17	PREPARED SPACE	--	--	--	0.00	
18	SPD	3	100A	80A		
19	PHP-1	3	100 A	50 A	18.00	PROVIDE CIRCUIT BREAKER
		TOTAL CONNECTED KVA:		271.54		
		TOTAL CONNECTED AMPACITY:		327		
LOAD TYPE		CONNECTED KVA		SWITCHBOARD TOTALS:		
LIGHTING:		21.60		TOTAL CONNECTED KVA:		271.54
RECEPTACLES:				TOTAL CONNECTED CURRENT:		327
HVAC:		177.43		SWITCHBOARD CAPACITY %:		16
MOTORS:						
KITCHEN:						
OTHERS:		3.30				

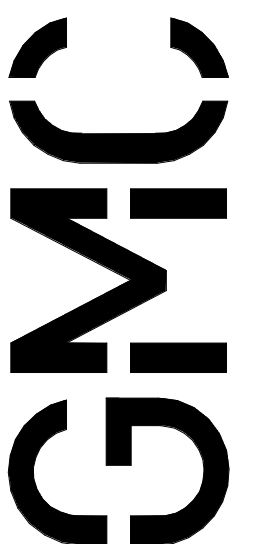
SWITCHBOARD IS EXISTING AND IS PROVIDED UNDER SEPARATE CONTRACT. ALL BREAKERS SHOWN ARE EXISTING UNLESS NOTED OTHERWISE. PROVIDE CIRCUIT BREAKER WHERE INDICATED.

EXISTING PANELBOARD: <b>L1A</b>		DISTRIBUTION: 480/277 Wye		A.I.C. RATING: 35,000										
MOUNTING: SURFACE		PHASES: 3		MAINS RATING: 125 A										
ENCLOSURE: Type 1		WIRES: 4		MCB RATING: MAIN LUGS ONLY										
WIRE SIZE	CKT	DESCRIPTION	BKR	P	A	B	C	P	BKR	DESCRIPTION	CKT	WIRE SIZE		
3-#10, 1-#10, 1-#10	1				1.0	2.5			1	20	LIGHTING - WEST OFFICE WING	2	1-#10, 1-#10, 1-#10	
	3	("NEW")*VAV-3-5	30	3		1.0	4.6		1	30	LIGHTING - CONTACTOR LCP,CAGE WALKWAY,...	4	1-#10, 1-#10, 1-#10	
	5							1.0	2.5	1	20	LIGHTING - CARPENTRY/LANDSCAPE/EAST...	6	1-#10, 1-#10, 1-#10
1-#10, 1-#10, 1-#10	7	LIGHTING-EXTERIOR	20	1	0.9	0.9				1	20	LIGHTING - EXTERIOR	8	1-#10, 1-#10, 1-#10
1-#10, 1-#10, 1-#10	9	LIGHTING-CAGES 107-108	20	1			1.8	2.5		1	20	LIGHTING - CAGES 103-105, 143	10	1-#10, 1-#10, 1-#10
1-#10, 1-#10, 1-#10	11	LIGHTING-CAGES 139-140	20	1			1.8	1.8	1	20	LIGHTING - CAGE 106	12	1-#10, 1-#10, 1-#10	
3-#10, 1-#10, 1-#10	13				3.0	2.5				1	20	LIGHTING - CAGES 141-143	14	1-#10, 1-#10, 1-#10
	15	("NEW")*DX-VAV-3	25	3			3.0	0.0		1	20	SPARE	16	--
	17							3.0	0.0	1	20	SPARE	18	--
1-#10, 1-#10, 1-#10	19	LIGHTING - ELEV EQUIP, ELECT RM, VESTIBU...	20	1	0.5	0.0				1	20	SPARE	20	--
--	21	SPARE	20	1			0.0	0.0		1	20	SPARE	22	--
--	23	SPARE	20	1				0.0	0.0	1	20	SPARE	24	--
	25				0.6	0.0				1	20	SPARE	26	--
3-#10, 1-#10, 1-#10	27	("NEW")*ELEVATOR SUMP PUMP	20	3			0.6	0.0		1	20	SPARE	28	--
	29							0.6	0.0	1	20	SPARE	30	--
		TOTAL PER PHASE KVA:		11.9		13.5		10.7		ADD. CONNECTED KVA:		36.0		
		TOTAL PER PHASE AMPACITY:		43		49		39		ADD. CONNECTED AMPS:		43		

NOTES:  
PROVIDE BREAKER WHERE DENOTED AS "NEW".  
\* COORDINATE BREAKER RATINGS FOR HVAC EQUIPMENT WITH APPROVED HVAC SUBMITTALS.

EXISTING PANELBOARD: <b>R1A</b>		DISTRIBUTION: 120/208 Wye		A.I.C. RATING: 22,000										
MOUNTING: SURFACE		PHASES: 3		MAINS RATING: 400 A										
ENCLOSURE: Type 1		WIRES: 4		MCB RATING: 400 A										
WIRE SIZE	CKT	DESCRIPTION	BKR	P	A	B	C	P	BKR	DESCRIPTION	CKT	WIRE SIZE		
1-#10, 1-#10, 1-#10	1	RECEPT - CUSTODIAL SERVICES	20	1	0.7	0.9			1	20	RECEPT - 1ST FL EAST WING	2	1-#10, 1-#10, 1-#10	
1-#10, 1-#10, 1-#10	3	RECEPT - CUSTODIAL SERVICES	20	1			0.7	0.7	1	20	RECEPT - BUILDING SERVICES CAGE	4	1-#10, 1-#10, 1-#10	
1-#10, 1-#10, 1-#10	5	RECEPT - BUILDING SERVICES CAGE	20	1				0.7	0.5	1	20	RECEPT - HVAC SERVICE REC.	6	1-#10, 1-#10, 1-#10
1-#10, 1-#10, 1-#10	7	RECEPT - VAULT	20	1	1.6	1.6				1	20	RECEPT - HAZ-MAT CAGE	8	1-#10, 1-#10, 1-#10
1-#10, 1-#10, 1-#10	9	RECEPT - STEAM CAGE	20	1			0.7	0.7		1	20	RECEPT - PLUMBING CAGE	10	1-#10, 1-#10, 1-#10
1-#10, 1-#10, 1-#10	11	RECEPT - HVAC CAGE	20	1				0.7	0.7	1	20	RECEPT - PM WORK AREA CAGE	12	1-#10, 1-#10, 1-#10
1-#10, 1-#10, 1-#10	13	RECEPT - PM ROOFING CAGE	20	1	0.7	0.7				1	20	RECEPT - PM PIPE FITTERS CAGE	14	1-#10, 1-#10, 1-#10
--	15	PREPARED SPACE	--	--			0.0	1.1		2	20	("NEW")RECEPT - PM MECH CAGE	16	2-#10, 1-#10, 1-#10
1-#10, 1-#10, 1-#10	17	RECEPT - 1ST FL WEST WING	20	1				0.7	1.1				18	
1-#10, 1-#10, 1-#10	19	RECEPT - FILTER STORAGE	20	1	0.7	0.9							20	
1-#10, 1-#10, 1-#10	21	RH-3, RH-4	20	1			1.8	0.9		3	20	("NEW")*EF-11	22	3-#10, 1-#10, 1-#10
1-#10, 1-#10, 1-#10	23	RH-5, RH-6	20	1				1.8	0.9				24	
1-#10, 1-#10, 1-#10	25	RECEPT - EAST WING WORKSTATIONS	20	1	1.6	0.9							26	
1-#10, 1-#10, 1-#10	27	RECEPT - ELEVATOR PIT	20	1			0.2	0.9		3	20	("NEW")*EF-10	28	3-#10, 1-#10, 1-#10
2-#10, 1-#10, 1-#10	29	RECEPT - PLUMBING CAGE	20	2				1.1	0.9				30	
--	31				1.1	0.0				1	20	SPARE	32	--
--	33	SPARE	20	1			0.0	3.4		2	25	*SHP-1	34	2-#10, 1-#10
--	35	SPARE	20	1				0.0	3.4				36	
	37				12.1	5.5							38	
**	39	** PANEL "R1K"	150	3			11.7	6.3		3	225	***PANEL "CS" (CARPENTRY SHOP)	40	--
	41							9.5	4.3				42	
		TOTAL PER PHASE KVA:		29.2		29.2		26.4		ADD. CONNECTED KVA:		84.8		
		TOTAL PER PHASE AMPACITY:		247		247		220		ADD. CONNECTED AMPS:		235		

NOTES:  
PROVIDE BREAKER WHERE DENOTED AS "NEW".  
\* COORDINATE CIRCUIT BREAKER RATINGS FOR HVAC EQUIPMENT WITH APPROVED HVAC SUBMITTALS.  
\*\* COORDINATE FEEDER SIZE WITH SINGLE LINE DIAGRAM.  
\*\*\* INSTALLED UNDER SEPARATE CONTRACT.



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ISSUE DATE	DATE
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FACILITIES RELOCATION -  
BUILDING SYSTEMS  
RENOVATION PROJECT - 1ST  
FLOOR ELECTRICAL/LIGHTING  
USC#H27-Z400/50003367-2

PANEL SCHEDULES 1

E0.50



\*DRAWINGS BASED ON CONDITIONS AT TIME OF DESIGN, SUBJECT TO CHANGE IN LATER PHASES.\*

EXISTING PANELBOARD: CS. DISTRIBUTION: 120/208 Wye. PHASES: 3. WIRES: 4. ENCLASURE: Type 1. A.I.C. RATING: 10,000. MAINS RATING: 225 A. MCB RATING: 225 A. SUPPLIED FROM: R1A. MOUNTING: SURFACE. WIRE SIZE, CKT, DESCRIPTION, BKR, P, A, B, C, P, BKR, DESCRIPTION, CKT, WIRE SIZE.

PANELBOARD: R1K. DISTRIBUTION: 120/208 Wye. PHASES: 3. WIRES: 4. ENCLASURE: Type 1. A.I.C. RATING: 10,000. MAINS RATING: 150 A. MCB RATING: MAIN LUGS ONLY. SUPPLIED FROM: R1A. MOUNTING: SURFACE. WIRE SIZE, CKT, DESCRIPTION, BKR, P, A, B, C, P, BKR, DESCRIPTION, CKT, WIRE SIZE.

EXISTING PANELBOARD: R1C. DISTRIBUTION: 120/208 Wye. PHASES: 3. WIRES: 4. ENCLASURE: Type 1. A.I.C. RATING: 10,000. MAINS RATING: 125 A. MCB RATING: MAIN LUGS ONLY. SUPPLIED FROM: T1B. MOUNTING: SURFACE. WIRE SIZE, CKT, DESCRIPTION, BKR, P, A, B, C, P, BKR, DESCRIPTION, CKT, WIRE SIZE.

EXISTING PANELBOARD: SB1. DISTRIBUTION: 480/277 Wye. PHASES: 3. WIRES: 4. ENCLASURE: Type 1. A.I.C. RATING: 35,000. MAINS RATING: 100 A. MCB RATING: MAIN LUGS ONLY. SUPPLIED FROM: MDP. MOUNTING: SURFACE. WIRE SIZE, CKT, DESCRIPTION, BKR, P, A, B, C, P, BKR, DESCRIPTION, CKT, WIRE SIZE.

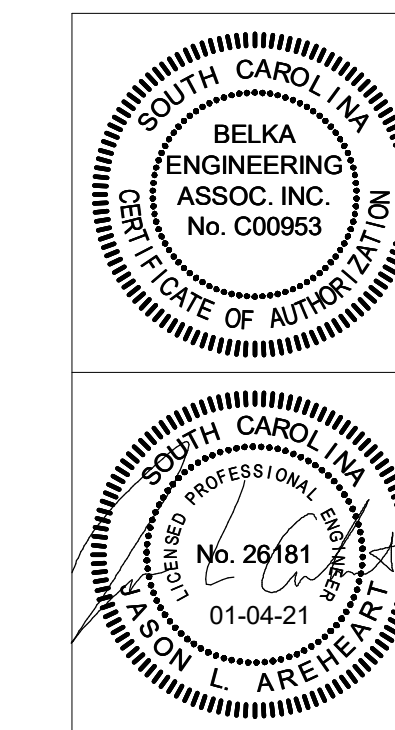
EXISTING PANELBOARD: RSB1. DISTRIBUTION: 120/208 Wye. PHASES: 3. WIRES: 4. ENCLASURE: Type 1. A.I.C. RATING: 10,000. MAINS RATING: 100 A. MCB RATING: 100 A. SUPPLIED FROM: T1SB. MOUNTING: SURFACE. WIRE SIZE, CKT, DESCRIPTION, BKR, P, A, B, C, P, BKR, DESCRIPTION, CKT, WIRE SIZE.

EXISTING PANELBOARD: LS1. DISTRIBUTION: 480/277 Wye. PHASES: 3. WIRES: 4. ENCLASURE: Type 1. A.I.C. RATING: 35,000. MAINS RATING: 100 A. MCB RATING: 100 A. SUPPLIED FROM: MDP. MOUNTING: SURFACE. WIRE SIZE, CKT, DESCRIPTION, BKR, P, A, B, C, P, BKR, DESCRIPTION, CKT, WIRE SIZE.

EXISTING PANELBOARD: RLS1. DISTRIBUTION: 120/208 Wye. PHASES: 3. WIRES: 4. ENCLASURE: Type 1. A.I.C. RATING: 10,000. MAINS RATING: 100 A. MCB RATING: 50 A. SUPPLIED FROM: EXISTING T1LS. MOUNTING: SURFACE. WIRE SIZE, CKT, DESCRIPTION, BKR, P, A, B, C, P, BKR, DESCRIPTION, CKT, WIRE SIZE.

\*DRAWINGS BASED ON CONDITIONS AT TIME OF DESIGN, SUBJECT TO CHANGE IN LATER PHASES.\*

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ISSUE DATE table with columns for Construction Documents (01-04-21) and Facility Relocation - Building Systems Renovation Project - 1st Floor Electrical/Lighting.

FACILITIES RELOCATION - BUILDING SYSTEMS RENOVATION PROJECT - 1ST FLOOR ELECTRICAL/LIGHTING, USC#H27-Z400/50003367-2

PANEL SCHEDULES 2

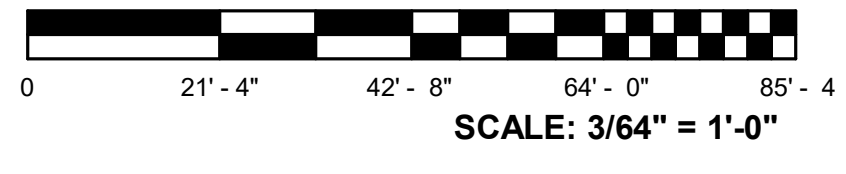
E0.51





**1 ELECTRICAL SITE PLAN**  
E1.00 SCALE: 3/64" = 1'-0"

**\*\*NOTE\*\* - THIS DRAWING IS FOR REFERENCE ONLY.**



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BELKA  
ENGINEERING  
ASSOC. INC.  
No. C00663  
STATE OF SOUTH CAROLINA**

**SOUTH CAROLINA  
CLIFF STRINGFIELD  
PROFESSIONAL  
No. 28181  
STATE OF SOUTH CAROLINA  
01-04-21**

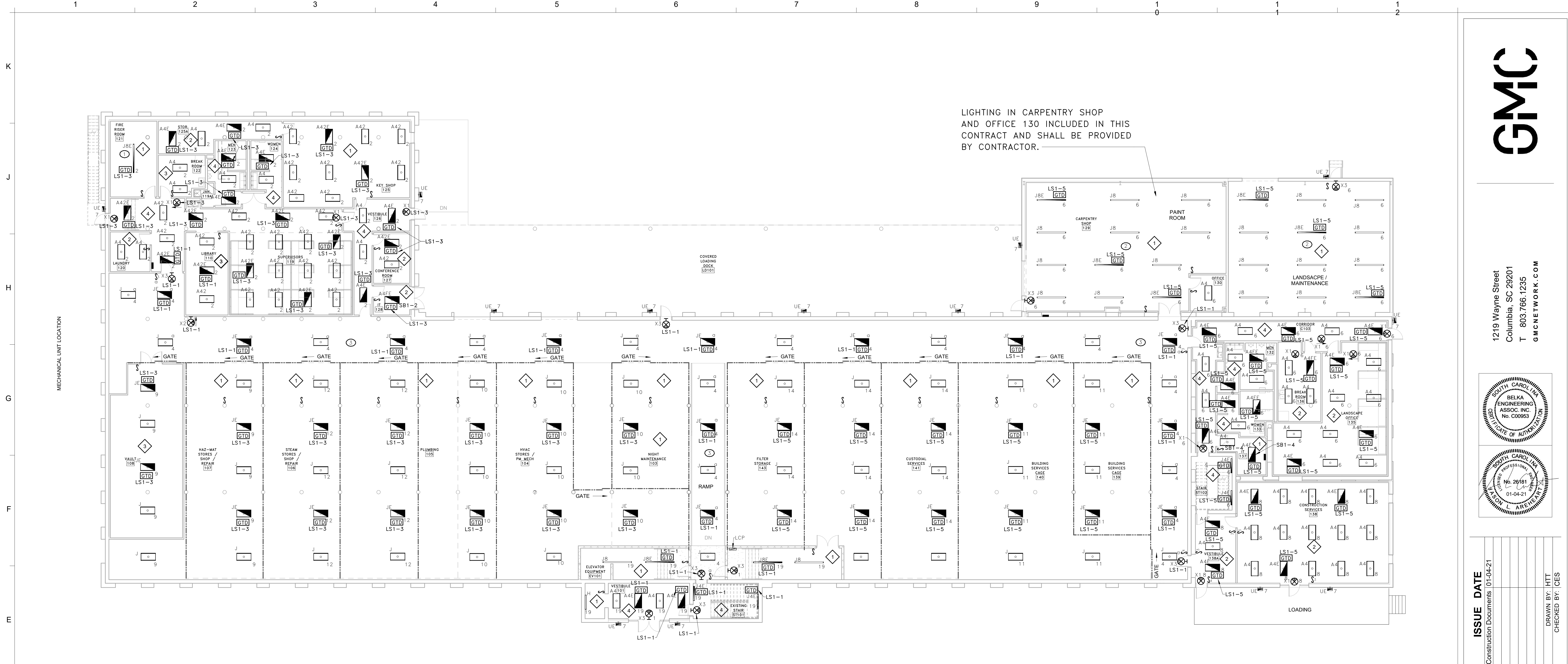
ISSUE	DATE
Construction Documents	01-04-21

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CHECKED BY: CES

**FACILITIES RELOCATION -  
BUILDING SYSTEMS  
RENOVATION PROJECT - 1ST  
FLOOR ELECTRICAL/LIGHTING**  
USC#H27-Z400/50003367-2

ELECTRICAL SITE PLAN

**E1.00**



1 LEVEL 1 LIGHTING PLAN  
E1.1 SCALE: 3/32" = 1'-0"

- KEY NOTES**
- 1 PROVIDE TYPE 'JBE' FIXTURE MOUNTED AT 7'-0" AFF IN THIS ROOM.
  - 2 PROVIDE TYPE 'JBE' AND 'JB' FIXTURES MOUNTED AT 7'-0" AFF IN THIS ROOM.
  - 3 PROVIDE 30A, ELECTRICALLY HELD, 2 POLE, 277V LIGHTING CONTACTOR (LCP) TO CONTROL TYPE 'J' AND 'JE' LIGHT FIXTURES IN CAGE WALKWAY. LCP LOCATED IN ELECTRICAL ROOM.

- GENERAL NOTES**
- 1 LIGHTS IN CAGES SHALL CONTROLLED BY INDIVIDUAL SWITCH MOUNTED ON COLUMN INSIDE EACH CAGE.
  - 2 LIGHTS IN EGRESS CORRIDOR SHALL BE CONTROLLED BY DESIGNATED SWITCHES.
  - 3 TYPE 'UE' LIGHT FIXTURES SHALL BE CONTROLLED BY 365-DAY PROGRAMMABLE ELECTRONIC TIMER, INTERMATIC MODEL ET90215CR OR EQUAL.
  - 4 CIRCUITS SHOWN ON THIS SHEET SHALL BE FED FROM PANEL "L1A" UNLESS NOTED OTHERWISE.

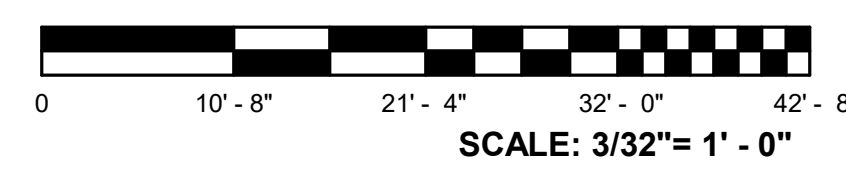
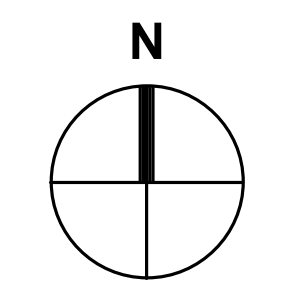
**LIGHT FIXTURE PLAN KEY**  
SHADING INDICATES EMERGENCY FIXTURE USED BY GENERATOR

CE = UPPERCASE LETTER / LETTERS INDICATE FIXTURE TYPE  
d = LOWERCASE LETTER INDICATES SWITCH IDENTIFICATION  
EM = INDICATES NON SWITCHED "EMERGENCY"  
A:9 = DESIGNATES PANEL NAME: CIRCUIT NUMBER

**NOTE:**  
ALL 'EM' FIXTURES INDICATED IN PLAN CONTAIN CONNECTION TO GENERATOR.

WHERE UTILITY POWER SHOULD FAIL, FIXTURES SHALL REMAIN OPERATIONAL FOR A MINIMUM 90 MINUTES.

**LIGHT CONTROL SCHEME**  
LIGHTING CONTROL SYMBOL CORRELATES WITH DESIRED CONTROL SCHEME AS INDICATED IN THE LIGHTING CONTROL SCHEME SCHEDULE

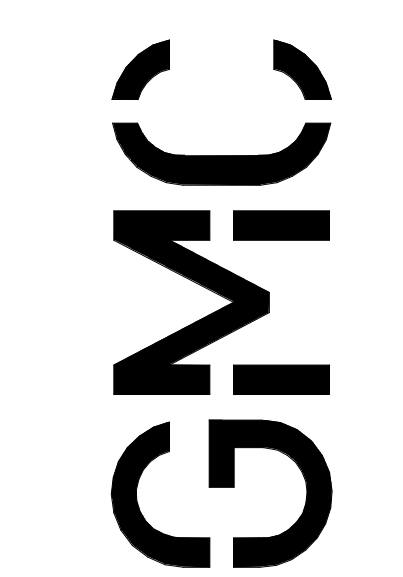


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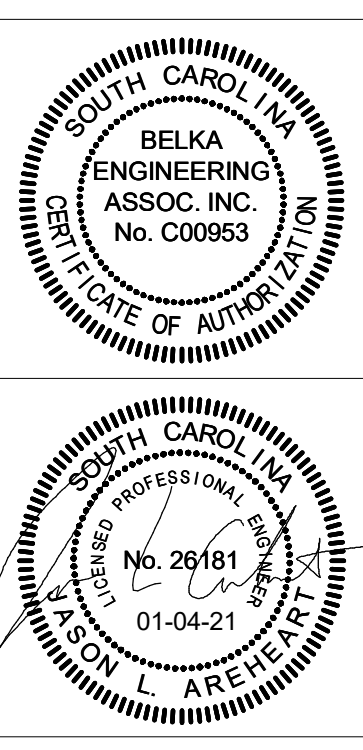
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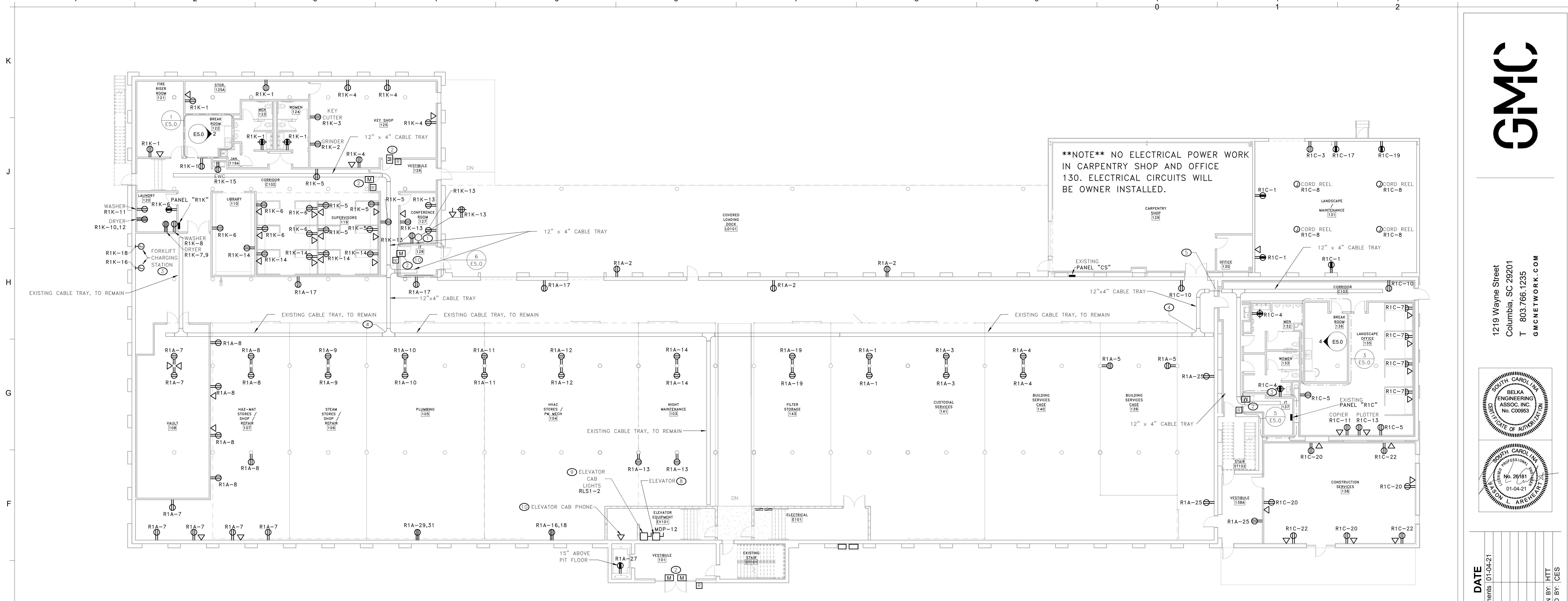
**FACILITIES RELOCATION -  
BUILDING SYSTEMS  
RENOVATION PROJECT - 1ST  
FLOOR ELECTRICAL/LIGHTING**  
USC#H27-Z400/50003367-2

LEVEL 1 LIGHTING  
PLAN

**E1.1**

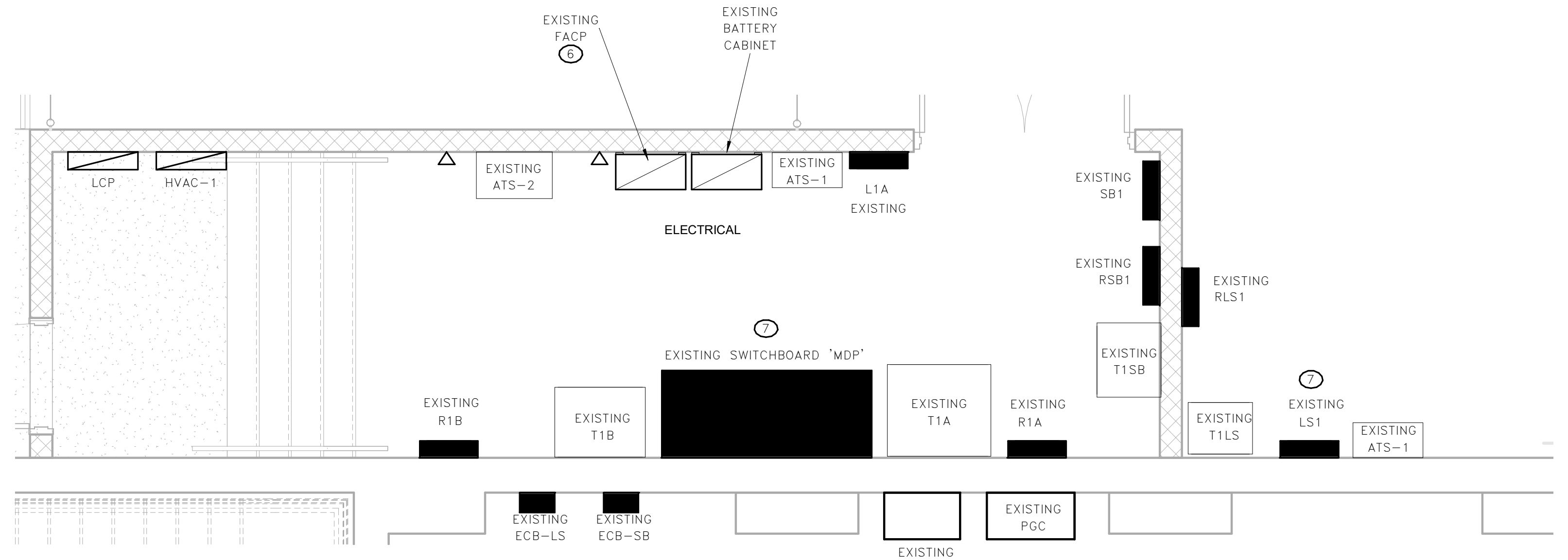
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**\*\*NOTE\*\* NO ELECTRICAL POWER WORK IN CARPENTRY SHOP AND OFFICE 130. ELECTRICAL CIRCUITS WILL BE OWNER INSTALLED.**

**1 1ST FLOOR POWER PLAN**  
E2.1 SCALE: 3/32" = 1'-0"

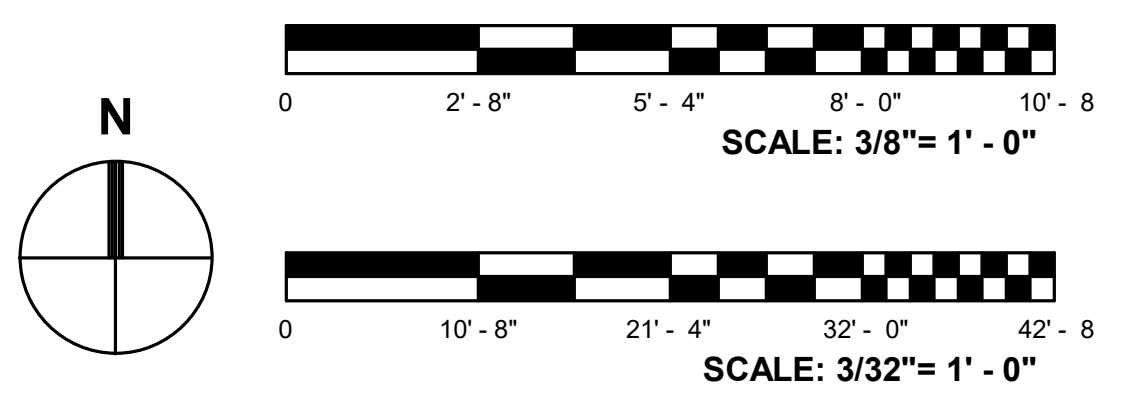


**4 ENLARGED ELECTRICAL RM. 101 PLAN**  
E2.1 SCALE: 3/8" = 1'-0"

NOTE: EQUIPMENT NOTED AS EXISTING INDICATES EQUIPMENT INSTALLED UNDER SEPARATE CONTRACT BY CONTRACTOR INSTALLING FIRE ALARM SYSTEM AND ELECTRICAL SERVICE. COORDINATE ANY WORK IN THIS EQUIPMENT WITH RESPECTIVE CONTRACTOR.

- KEY NOTES**
- PROVIDE AN ALL IN ONE BACKBOX, LEGRAND CHIEF PAC 525FW OR EQUAL FOR TV FLAT PANEL. PROVIDE WITH PROVISION FOR DATA AND A/V. PROVIDE 3/4" CONDUIT WITH PULL STRING FROM BOX TO NEAREST IT BACKBOARD FOR DATA. PROVIDE 3/4" CONDUIT WITH PULL STRING FROM BOX TO NEAREST IT BACKBOARD FOR A/V. COORDINATE WITH OWNERS AUDIO/VISUAL CONSULTANT.
  - PROVIDE 1 INCH CONDUIT WITH PULL STRING AS NECESSARY TO INSTALL FUTURE CABLE FOR DOOR CONTACT. COORDINATE INSTALLATION WITH OWNERS SECURITY CONTRACTOR.
  - PROVIDE DISCONNECT SWITCH FOR FORKLIFT CHARGING STATION. MATCH RATINGS TO CHARGING STATION.
  - PROVIDE BASKET TYPE CABLE TRAY WHERE INDICATED AND EXTEND TO INTERSECT EXISTING CABLE TRAY HERE. EXTEND CABLE TRAY GROUND THROUGH INTERSECTION.
  - PROVIDE (4) 4" CONDUIT SLEEVES AT THRU WALL PENETRATION TO CONNECT CABLE TRAY. EXTEND CABLE TRAY GROUNDING.
  - PROVIDE SEPARATE OUTPUTS FROM THE FIRE ALARM SYSTEM TO THE ELEVATOR CONTROLLER IN ORDER TO IMPLEMENT ELEVATOR PHASE 1 EMERGENCY RECALL OPERATION IN ACCORDANCE WITH SECTION 2.27 OF ASME A17.1 AND AS REQUIRED IN 21.3.12 OF NFPA 72.
  - PROVIDE CONTROL-TYPE ADDRESSABLE INTERFACE UNIT(S) (AIU) FOR ELEVATOR SHUNT-TRIP FIRE SAFETY FUNCTION.

- GENERAL NOTES**
- PROVIDE LIGHTING CONTROL PANEL LCP-1 IN ELECTRICAL ROOM.
  - PROVIDE HVAC CONTROL PANEL HVAC-1 IN ELECTRICAL ROOM.
  - PROVIDE 1-1/4 INCH CONDUIT WITH PULL STRING FROM EACH DATA OUTLET BACK TO NEAREST IT BACKBOARD. DATA OUTLET BOX SHALL BE 4 INCH SQUARE BOX WITH SINGLE GANG RING.
  - PROVIDE 1 INCH CONDUIT WITH PULL STRING FROM EACH CARD READER BOX TO NEAREST DATA RACK.
  - ELECTRICAL PANELS SHOWN ARE BEING INSTALLED UNDER A SEPARATE CONTRACT. COORDINATE BRANCH CIRCUIT INSTALLATION WITH CONTRACTOR INSTALLING ELECTRICAL PANELS.
  - FIRE ALARM SYSTEM INITIATING DEVICES FOR ELEVATOR ARE BEING INSTALLED UNDER A SEPARATE CONTRACT. COORDINATE INSTALLATION SUCH THAT DEVICES SHALL BE ZONED SEPARATELY FROM DETECTORS THROUGHOUT THE BUILDING WHEREBY ONLY ELEVATOR LOBBY DETECTORS WILL INITIATE SPECIAL "FIRE SERVICE" ELEVATOR OPERATION.
  - INTERLOCK SHUNT TRIP BREAKER FEEDING THE EXISTING ELEVATOR CONTROLLER WITH FIRE ALARM CONTROL PANEL TO CUT POWER TO ELEVATOR WHEN HEAT DETECTORS IN ELEVATOR SHAFT ARE INITIATED.



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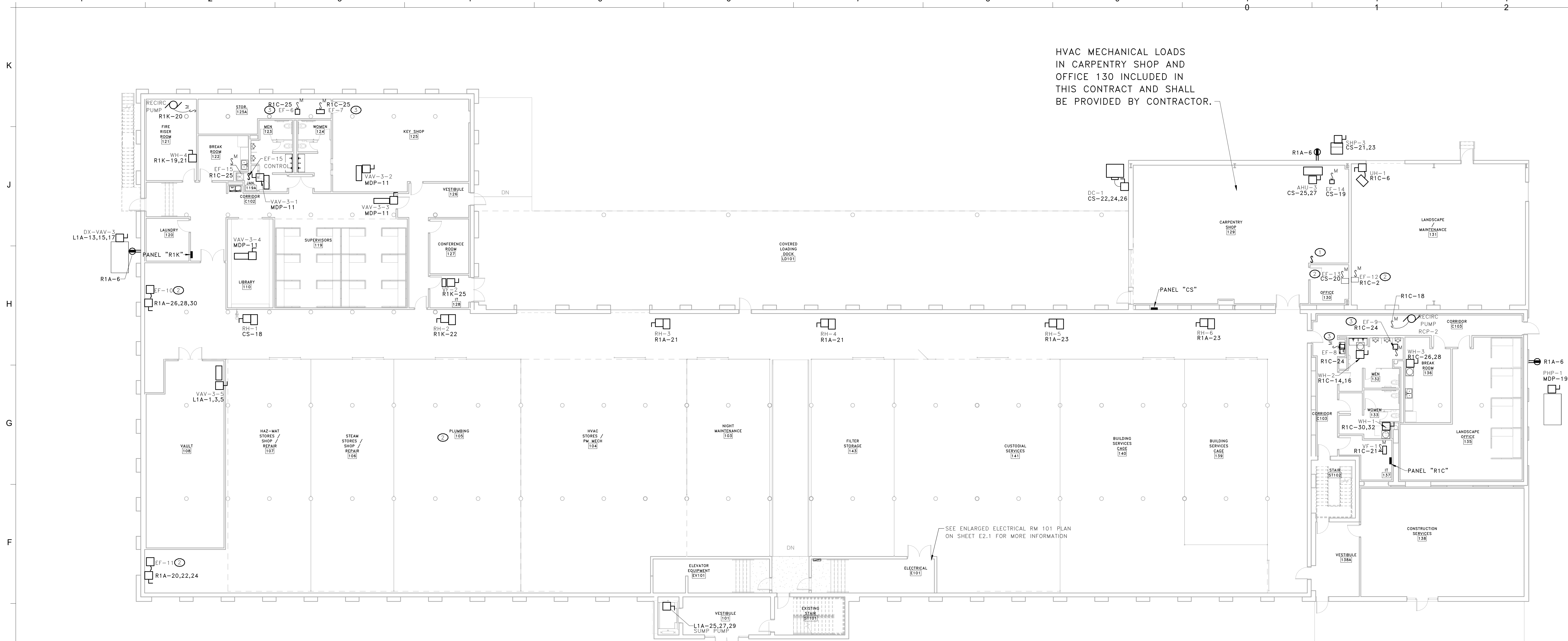
**ISSUE DATE**  
Construction Documents 01-04-21

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**CHECKED BY:** CES

**FACILITIES RELOCATION - BUILDING SYSTEMS RENOVATION PROJECT - 1ST FLOOR ELECTRICAL/LIGHTING**  
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**LEVEL 1 POWER PLAN**  
**E2.1**

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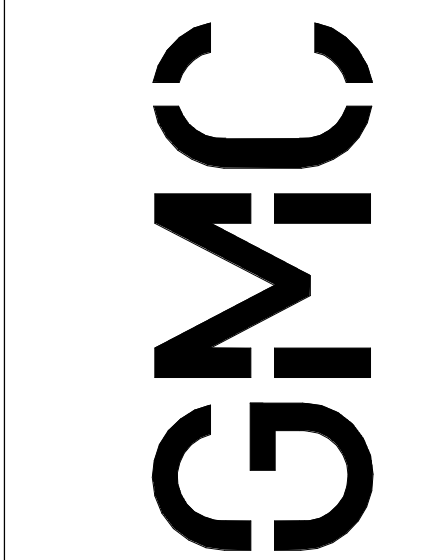
HVAC MECHANICAL LOADS  
IN CARPENTRY SHOP AND  
OFFICE 130 INCLUDED IN  
THIS CONTRACT AND SHALL  
BE PROVIDED BY CONTRACTOR.

SEE ENLARGED ELECTRICAL RM 101 PLAN  
ON SHEET E2.1 FOR MORE INFORMATION

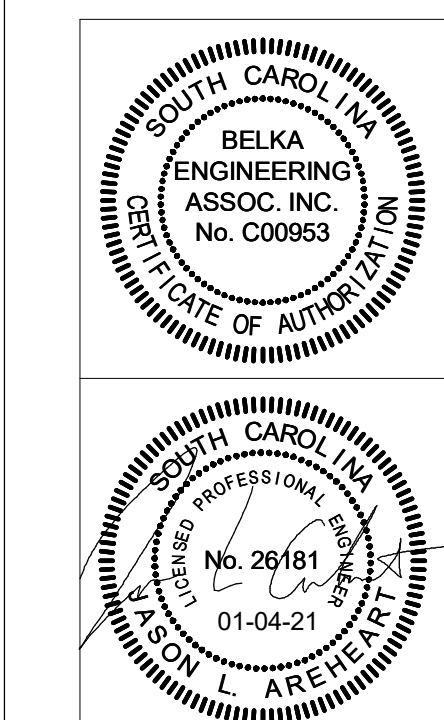
**1** 1ST FLOOR MECHANICAL POWER PLAN  
E2.2 SCALE: 3/32" = 1'-0"

- KEY NOTES**
- 1 PROVIDE WALL SWITCH AND WIRING CONNECTIONS FOR CONTROL OF EXHAUST FAN EF-14.
  - 2 STARTER FOR EXHAUST FAN PROVIDED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.
  - 3 PROVIDE 20A RELAY WITH 277V COIL TO CONNECT EXHAUST FAN TO LIGHTING CIRCUIT SUCH THAT EXHAUST FAN IS CONTROLLED BY LIGHT SWITCH. SEE LEVEL 1 LIGHTING PLAN FOR MORE INFORMATION.

- GENERAL NOTES**
- 1 PROVIDE HVAC CONTROL PANEL HVAC-1 IN ELECTRICAL ROOM. SEE ENLARGED ELECTRICAL ROOM PLAN AND LEVEL 1 POWER PLAN FOR MORE INFORMATION.
  - 2 ELECTRICAL PANELS SHOWN ARE BEING INSTALLED UNDER A SEPARATE CONTRACT. COORDINATE MECHANICAL POWER CIRCUIT INSTALLATION WITH CONTRACTOR INSTALLING ELECTRICAL PANELS.



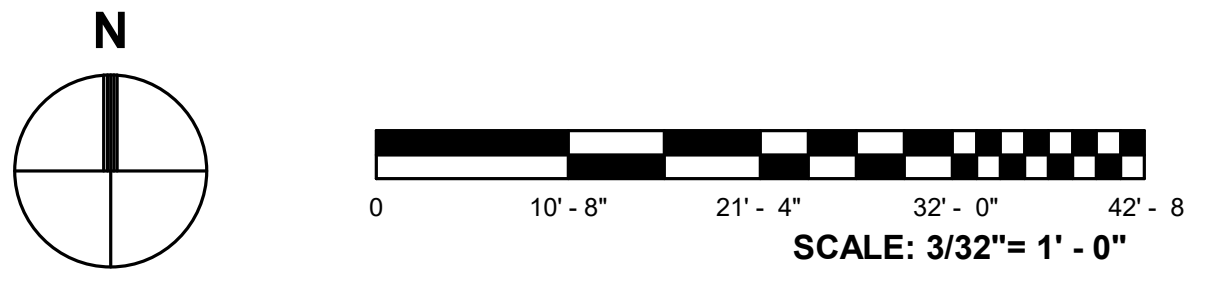
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FLOOR ELECTRICAL/LIGHTING**  
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**LEVEL 1 MECHANICAL  
POWER PLAN**  
**E2.2**

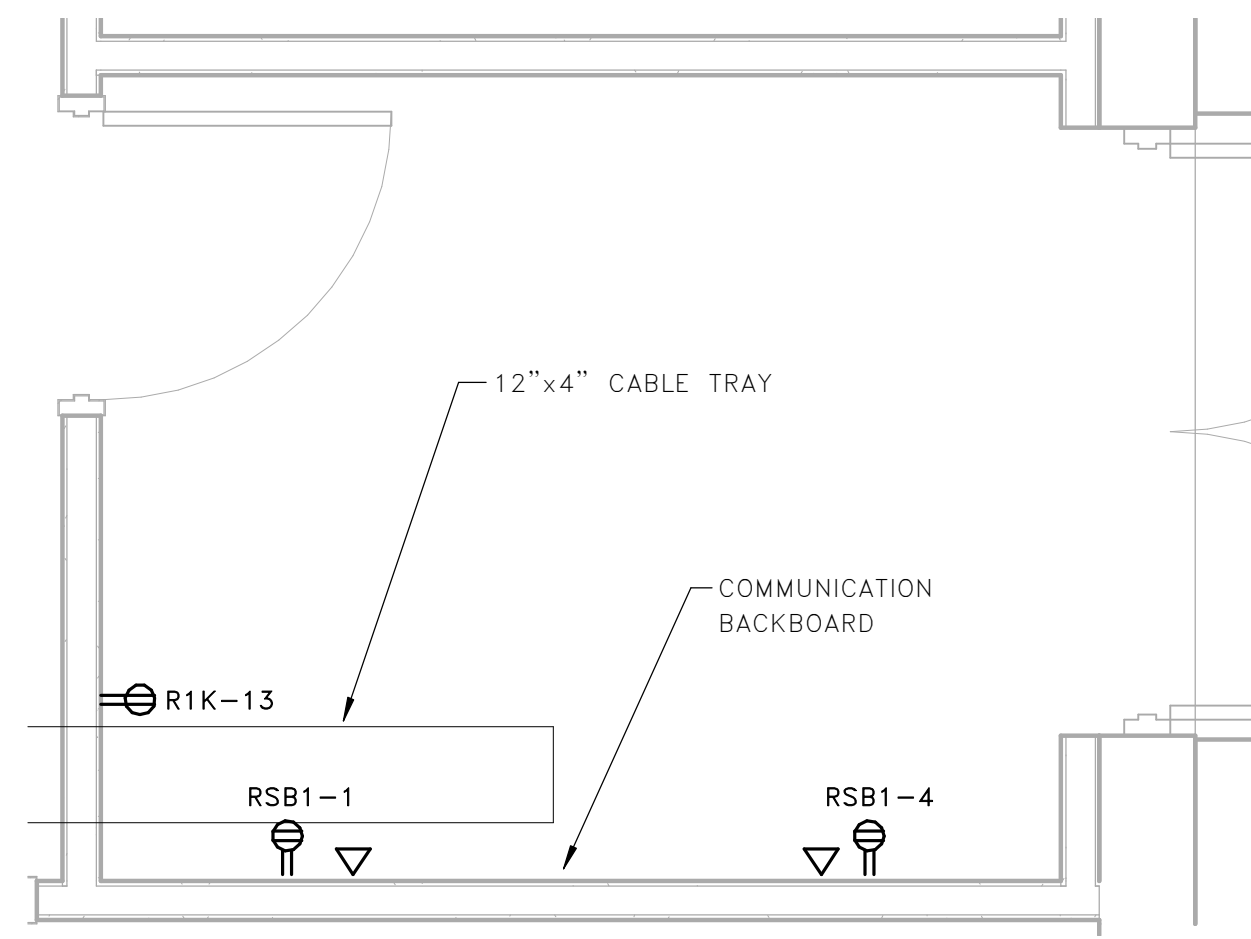


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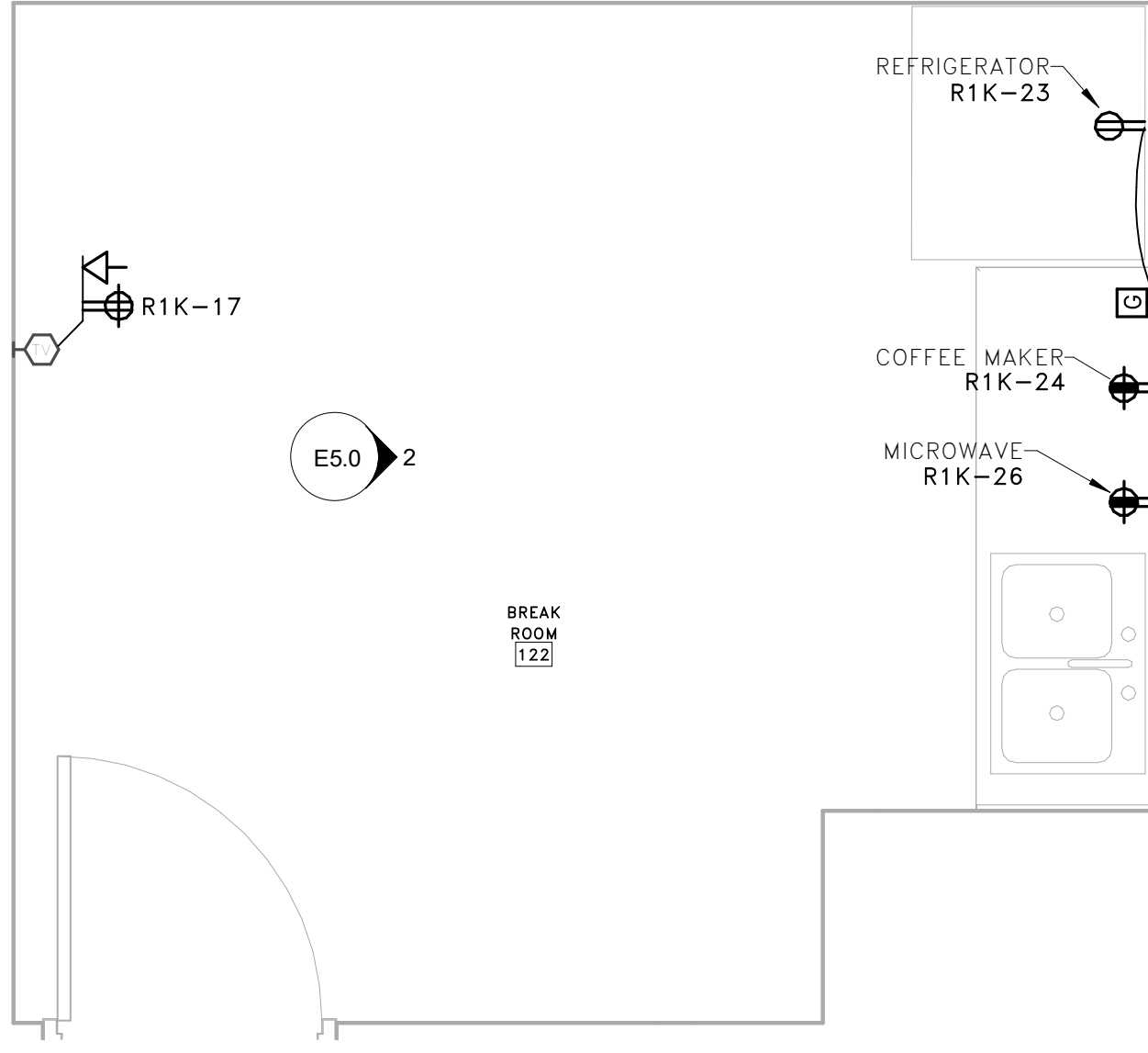
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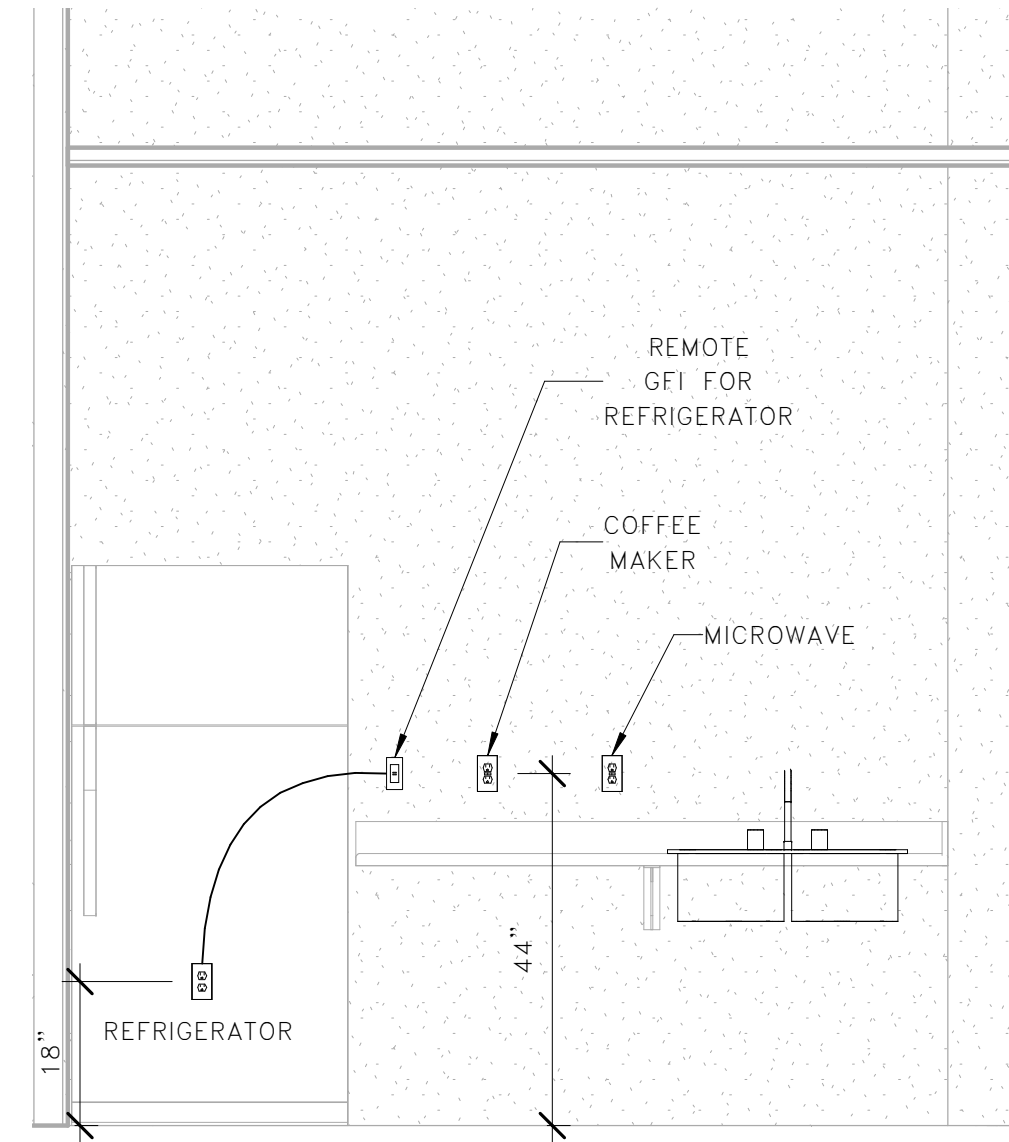
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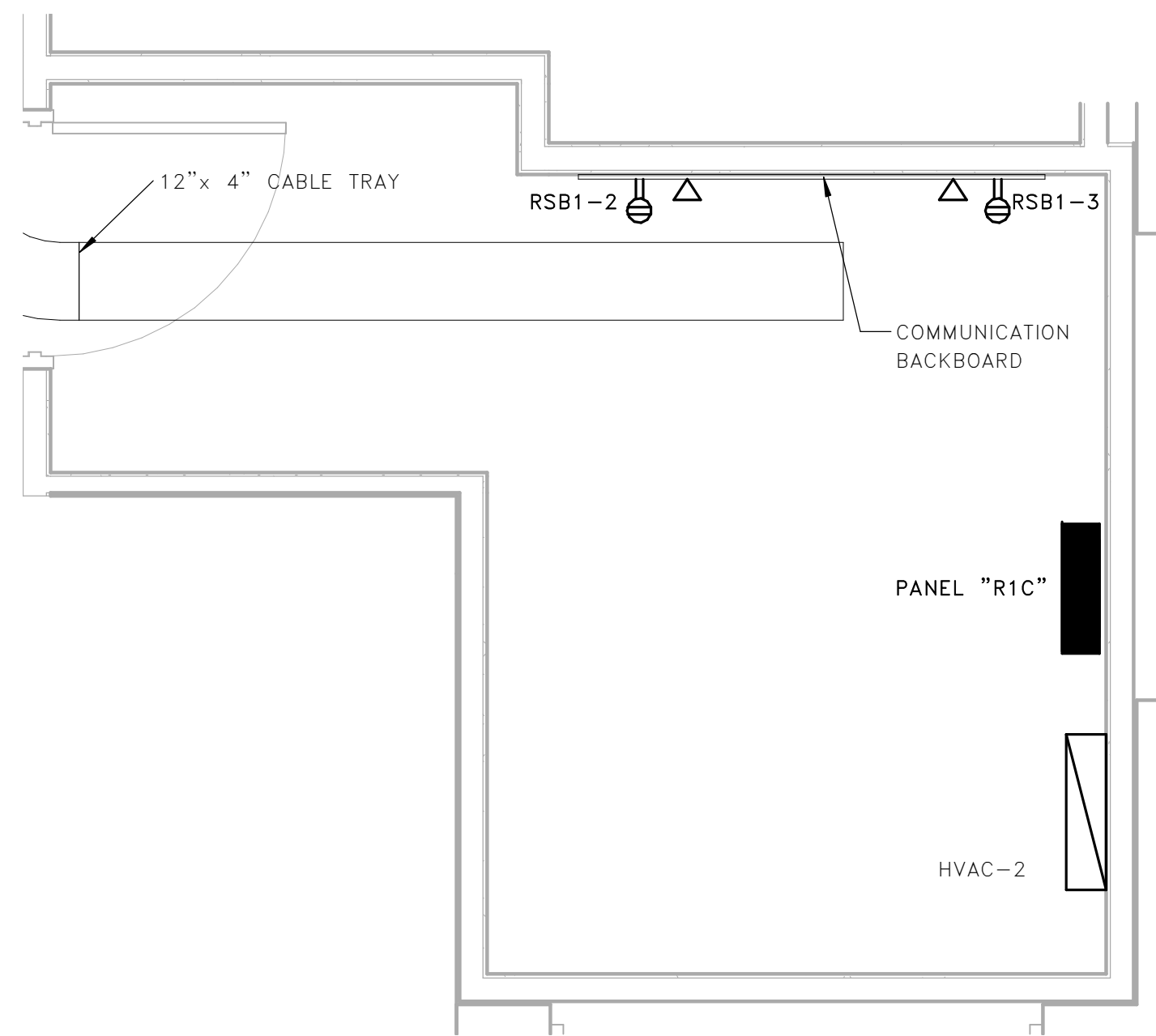
6 ENLARGED IT 128 PLAN  
E5.0 SCALE: 1/2" = 1'-0"



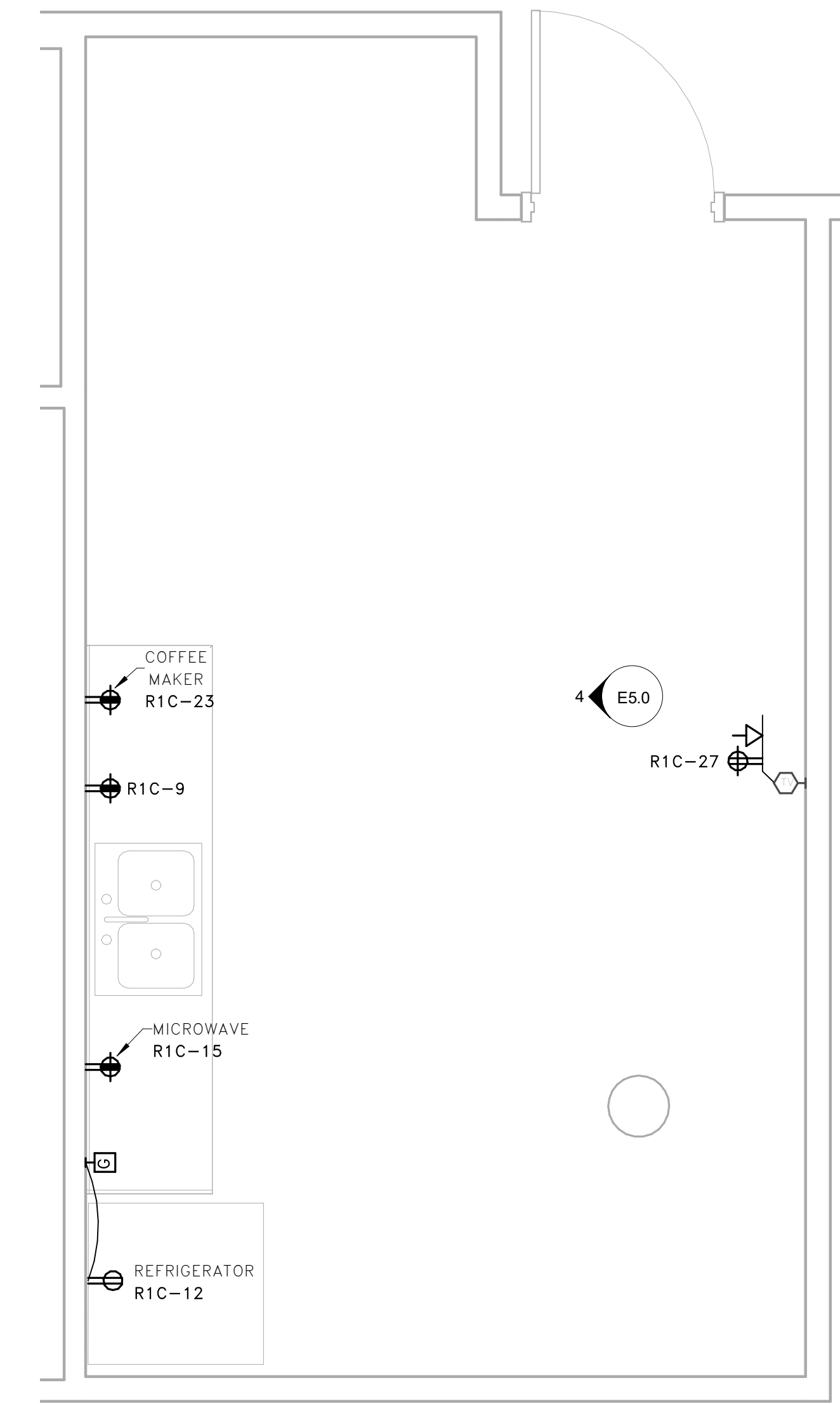
1 BREAK RM 122 ENLARGED VIEW  
E5.0 SCALE: 1/2" = 1'-0"



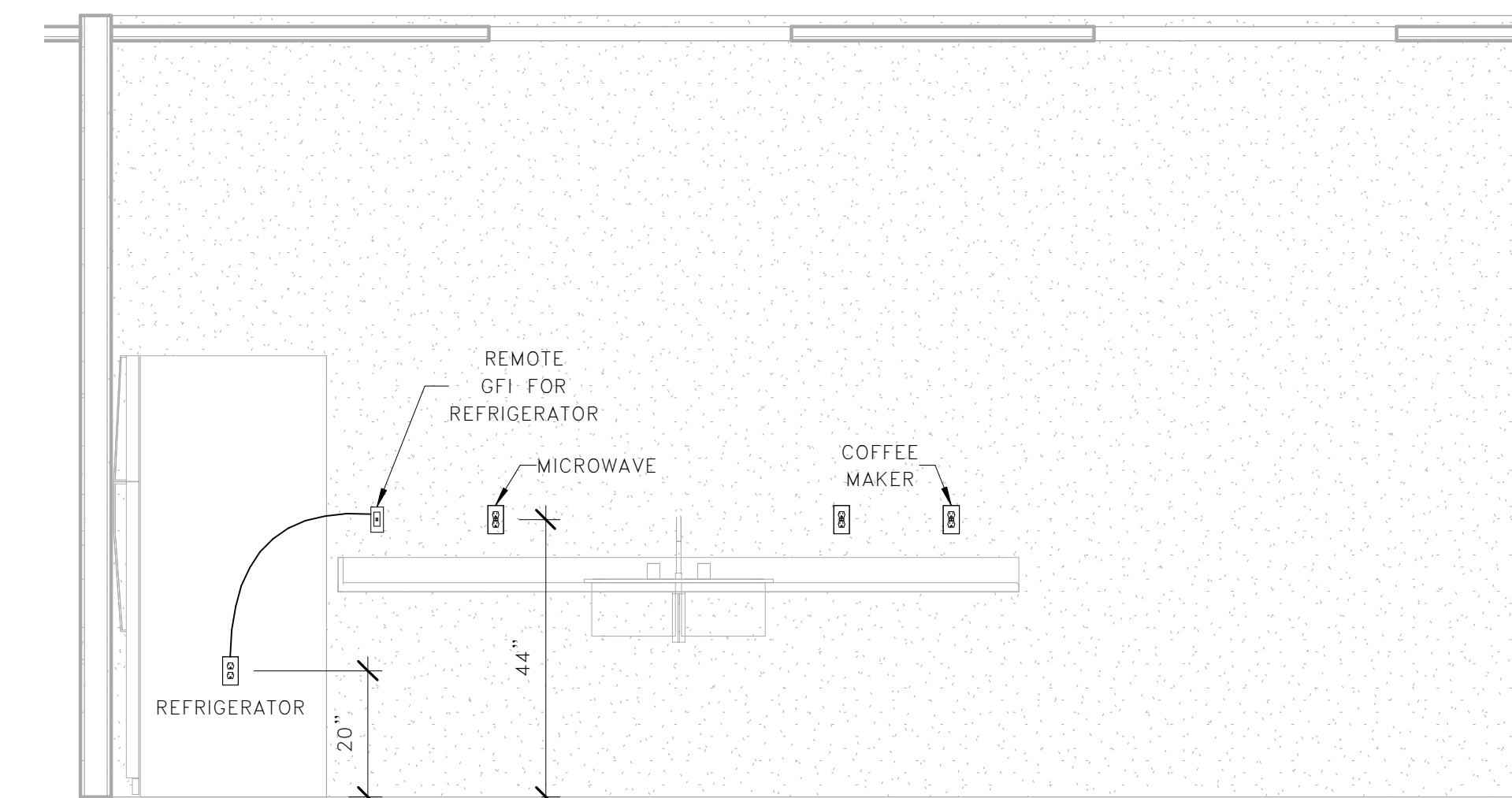
2 STAFF BREAK ELEVATION  
E5.0 SCALE: 1/2" = 1'-0"



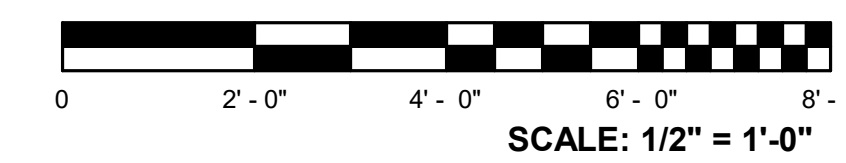
5 ENLARGED IT 137 PLAN  
E5.0 SCALE: 1/2" = 1'-0"



3 BREAKROOM 136 ENLARGED VIEW  
E5.0 SCALE: 1/2" = 1'-0"



4 BREAKROOM 136 ELEVATION  
E5.0 SCALE: 1/2" = 1'-0"



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ENLARGED PLANS & ELEVATIONS

E5.0

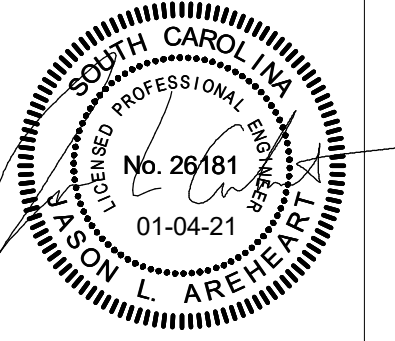
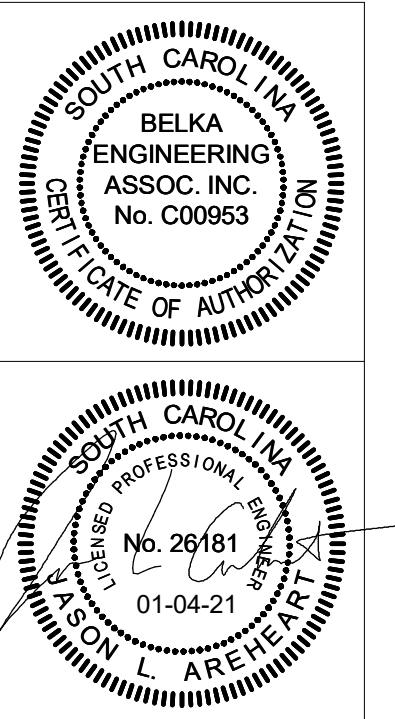
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