



YORK COUNTY MAIN PUBLIC LIBRARY ELECTRICAL UPGRADES

138 E BLACK ST.
ROCK HILL, SC 29730

GENERAL NOTES

- A. THE TERM "WORK" AS USED IN THESE NOTES SHALL INCLUDE ALL PROVISIONS AS DRAWN OR SPECIFIED IN THESE DOCUMENTS AS WELL AS ALL OTHER PROVISIONS SPECIFICALLY INCLUDED BY THE OWNER IN THE FORM OF DRAWINGS, SPECIFICATIONS, AND WRITTEN INSTRUCTIONS AND APPROVED BY THE ARCHITECT.
- B. THE TERM "CONTRACTOR" AS USED IN THESE NOTES SHALL REFER TO THE GENERAL CONTRACTOR OR TO THE SUB-CONTRACTORS. THE OWNER MAY ELECT TO CONTRACT DIRECTLY WITH A SUB-CONTRACTOR FOR ANY PART OF THE WORK.
- C. SCOPE OF WORK: THE CONTRACTOR SHALL INCLUDE AND PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, TRANSPORTATION, AND PAY ALL EXPENSES INCURRED IN PROPER COMPLETION OF WORK UNLESS SPECIFICALLY NOTED TO BE THE WORK OF OTHERS. CONTRACTOR SHALL PERFORM ALL WORK NECESSARY FOR PRODUCING A COMPLETE, HABITABLE PROJECT, INCLUDING BUT NOT LIMITED TO SITE WORK, ARCHITECTURAL, STRUCTURAL, FIRE PROTECTION, PLUMBING, HVAC, AND ELECTRICAL.
- D. BEFORE CONSTRUCTION BEGINS, THE CONTRACTOR SHALL VISIT THE SITE TO VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS AND SHALL NOTIFY THE ARCHITECT, IN WRITING, OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK AND SHALL BE RESPONSIBLE FOR SAME.
- E. IF THE CONTRACT DOCUMENTS ARE FOUND TO BE UNCLEAR, AMBIGUOUS OR CONTRADICTORY, THE CONTRACTOR MUST REQUEST CLARIFICATION FROM THE ARCHITECT IN WRITING BEFORE PROCEEDING WITH THAT PART OF THE WORK.
- F. IF A CONDITION EXISTS THAT REQUIRES OBSERVATION OR ACTION BY THE ARCHITECT, OR OTHER DESIGN PROFESSIONAL, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT.
- G. CONTRACTOR SHALL BE FAMILIAR WITH PROVISIONS OF ALL APPLICABLE CODES AND SHALL ENSURE THE COMPLIANCE OF THE WORK WITH ALL LOCAL, STATE AND FEDERAL CODES, TRADE STANDARDS AND MANUFACTURER'S RECOMMENDATIONS. IN THE EVENT OF CONFLICT BETWEEN LOCAL, STATE AND NATIONAL CODES, THE MORE STRINGENT SHALL GOVERN. BEFORE COMMENCING WORK NOT SHOWN IN DOCUMENTS, BUT REQUIRED TO ACHIEVE FULL COMPLIANCE WITH CODES, CONTRACTOR SHALL NOTIFY ARCHITECT.
- H. THESE DOCUMENTS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. SAFETY, COMPLIANCE WITH STATE AND FEDERAL REGULATIONS REGARDING SAFETY AND COMPLIANCE WITH REQUIREMENTS SPECIFIED IN THE OWNER/CONTRACTOR CONTRACT IS, AND SHALL BE, THE CONTRACTOR'S RESPONSIBILITY.
- I. CONTRACTOR SHALL PAY ALL TAXES, SECURE ALL PERMITS AND PAY ALL FEES INCURRED IN THE COMPLETION OF THE PROJECT.
- J. THE CONTRACTOR SHALL UNCONDITIONALLY WARRANTY ALL MATERIALS, AND WORKMANSHIP FURNISHED OR INSTALLED BY HIM OR HIS SUBCONTRACTORS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE AND SHALL REPLACE ANY DEFECTIVE WORK WITHIN THAT PERIOD WITHOUT EXPENSE TO THE OWNER AND PAY FOR ALL DAMAGES TO OTHER PARTS OF THE BUILDING RESULTING FROM DEFECTIVE WORK OR ITS REPAIR. THE CONTRACTOR SHALL REPLACE DEFECTIVE WORK WITHIN A REASONABLE, AGREED UPON TIME FRAME, AFTER IT IS BROUGHT TO HIS ATTENTION.
- K. THE CONTRACTOR SHALL AT ALL TIMES KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIALS AND RUBBISH AND AT THE COMPLETION OF THE WORK THE CONTRACTOR SHALL REMOVE ALL RUBBISH, IMPLEMENTS, AND SURPLUS MATERIALS AND LEAVE THE BUILDING IN NEW AND CLEAN CONDITION.
- L. CONTRACTOR IS TO PROVIDE TO THE OWNER A LIST OF ALL SUBCONTRACTORS USED, COMPLETE WITH ADDRESSES, PHONE NUMBERS AND COPIES OF ALL WARRANTIES AND OPERATIONS AND MAINTENANCE MANUALS.

COORDINATION OF WORK

ALL NOTES APPLY TO ALL DRAWINGS AND ALL TRADES. IT IS THE RESPONSIBILITY OF ALL CONTRACTORS AND SUB-CONTRACTORS TO COORDINATE THE INSTALLATION OF THEIR WORK WITH THE INSTALLATION OF WORK BY ALL OTHER CONTRACTORS AND SUB-CONTRACTORS. THE REQUIREMENTS OF THE DRAWINGS, GENERAL REQUIREMENTS, AND ALL ITEMS OF THE CONTRACT DOCUMENTS ARE EQUALLY BINDING ON ALL CONTRACTORS AND SUB-CONTRACTORS. EACH CONTRACTOR IS REQUIRED TO MAINTAIN FULL SETS OF THE CONTRACT DOCUMENTS FOR HIS EMPLOYEE'S USE ON THE PROJECT AND ASSURE THAT ALL WORK IS PROPERLY COORDINATED AND INSTALLED WITH THE WORK OF OTHER CONTRACTORS AND SUB-CONTRACTORS.

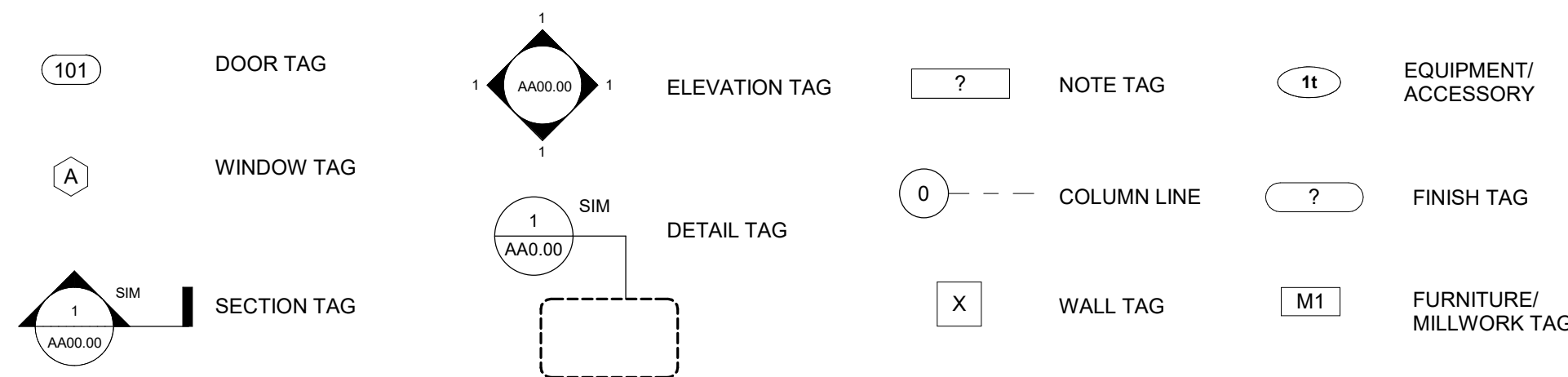
CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES AND SAFETY PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK.

DEFERRED SUBMITTALS AND SEPARATE PERMITS

THE FOLLOWING ITEMS ARE DEFERRED SUBMITTALS OR SEPARATE PERMITS:

- FIRE ALARM AND DETECTION SYSTEM

DRAWING SYMBOL LEGEND



VICINITY MAP

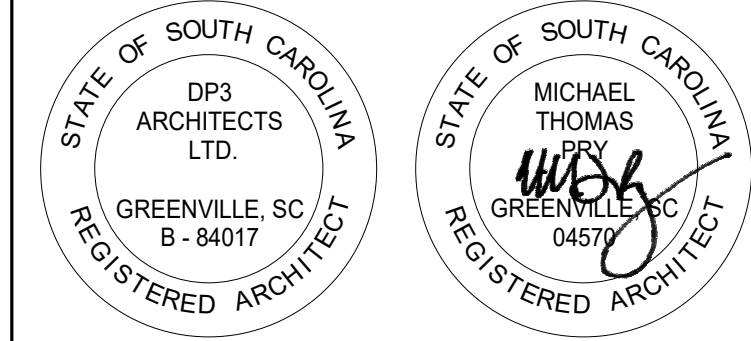


PROJECT SCOPE

THE PROJECT SCOPE OUTLINED IN THIS SET OF DOCUMENTS INCLUDES THE RENOVATION TO THE FACILITY ELECTRICAL SYSTEMS WITH ASSOCIATED CEILING AND MECHANICAL WORK.

DRAWING INDEX

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A202	NEW REFLECTED CEILING PLANS	C	06 JUN 2025
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M101	MECHANICAL DEMOLITION PLAN - FIRST FLOOR	C	06 JUN 2025
M102	MECHANICAL DEMOLITION PLAN - SECOND FLOOR	C	06 JUN 2025
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E112	ELECTRICAL CEILING DEMOLITION PLAN - SECOND FLOOR	C	06 JUN 2025
E201	ELECTRICAL POWER PLAN - FIRST FLOOR	C	06 JUN 2025
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E301	ELECTRICAL LIGHTING PLAN - FIRST FLOOR	C	06 JUN 2025
E302	ELECTRICAL LIGHTING PLAN - SECOND FLOOR	C	06 JUN 2025
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E402	ELECTRICAL SYSTEMS PLAN - SECOND FLOOR	C	06 JUN 2025
E501	ENLARGED ELECTRICAL MEZZANINE PLANS	C	06 JUN 2025
E800	ELECTRICAL DETAILS	C	06 JUN 2025
E801	ELECTRICAL DETAIL	C	06 JUN 2025
E900	ELECTRICAL SCHEDULES	C	06 JUN 2025
E901	ELECTRICAL PANEL SCHEDULES	C	06 JUN 2025
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E903	ELECTRICAL PANEL SCHEDULES	C	06 JUN 2025
E904	ELECTRICAL PANEL SCHEDULES	C	06 JUN 2025



06 JUN 2025



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DRAWING NAME

TITLE SHEET

DRAWING NO.

T101

Drawn By: LMG Checked By: MTP

PROJECT CONTACTS

OWNER

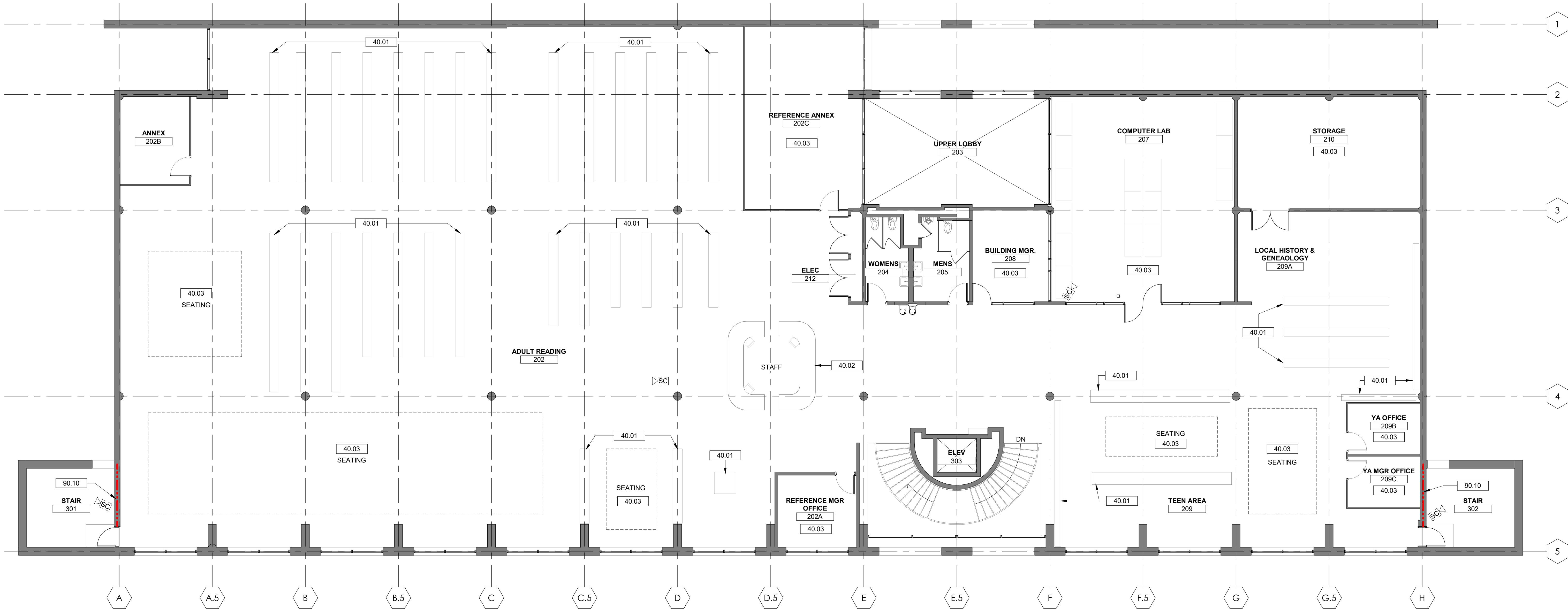
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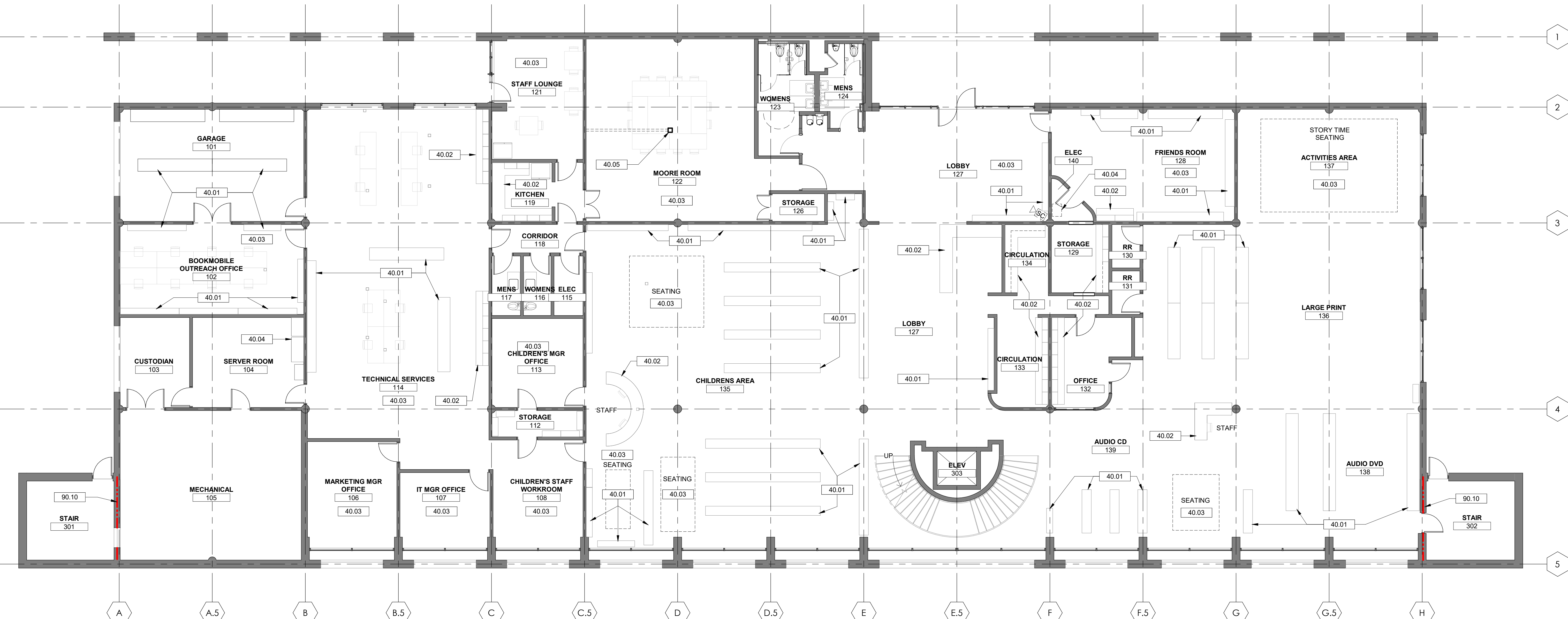
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2 2ND FLOOR
A101 / 1/8" = 1'-0"



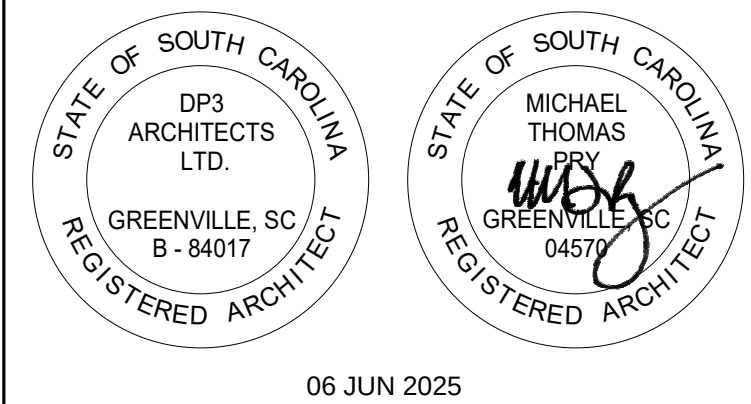
1 1ST FLOOR
A101 / 1/8" = 1'-0"

GENERAL FLOOR PLAN NOTES

- GENERAL CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND REPORT DISCREPANCIES IMMEDIATELY TO THE ARCHITECT.
- DIMENSIONS ARE TO CENTERLINE OF COLUMN LINES, FACE OF INTERIOR STUDS, FACE OF EXTERIOR WALL SHEATHING AND FACE OF MASONRY, UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL COORDINATE ALL UNDERGROUND PIPING, MECHANICAL AND ELECTRICAL WORK.
- DO NOT SCALE DRAWINGS. USE WRITTEN DIMENSIONS FOR ALL MEASUREMENTS.
- ROOMS ARE DEFINED BY WALLS, FACES OF DOORS AND ROOM CHANGE INDICATORS.
- NON-FIXED FURNITURE AND EQUIPMENT IS SHOWN FOR REFERENCE ONLY. ALL EXISTING FURNITURE TO BE PROTECTED DURING DEMOLITION AND CONSTRUCTION.

DRAWING NOTES

- EXISTING BOOKCASES TO REMAIN. COVER AND PROTECT DURING DEMOLITION AND CONSTRUCTION.
- EXISTING MILLWORK TO REMAIN. COVER AND PROTECT DURING DEMOLITION AND CONSTRUCTION.
- EXISTING FURNITURE TO REMAIN. COVER AND PROTECT DURING DEMOLITION AND CONSTRUCTION.
- EXISTING ELECTRICAL EQUIPMENT REFER TO ELECTRICAL DRAWINGS. COVER AND PROTECT ANY REMAINING EQUIPMENT DURING DEMOLITION AND CONSTRUCTION.
- NEW FLOOR BOX. REFER TO ELECTRICAL DRAWINGS FOR LOCATION AND DETAILS. TEMPORARILY REMOVE CARPET TILES UNTIL INSTALLATION OF FLOOR BOX IS COMPLETED. REINSTALL CARPET TILES TO MATCH EXISTING.
- EXISTING 2 HOUR FIRE RATED WALL TO REMAIN. PROTECT ALL NEW PENETRATIONS TO MAINTAIN THE FIRE RATING OF THE EXISTING WALL. ALL EXISTING DOORS AND FRAMES TO REMAIN.



06 JUN 2025



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DRAWING NAME

EXISTING FLOOR PLANS

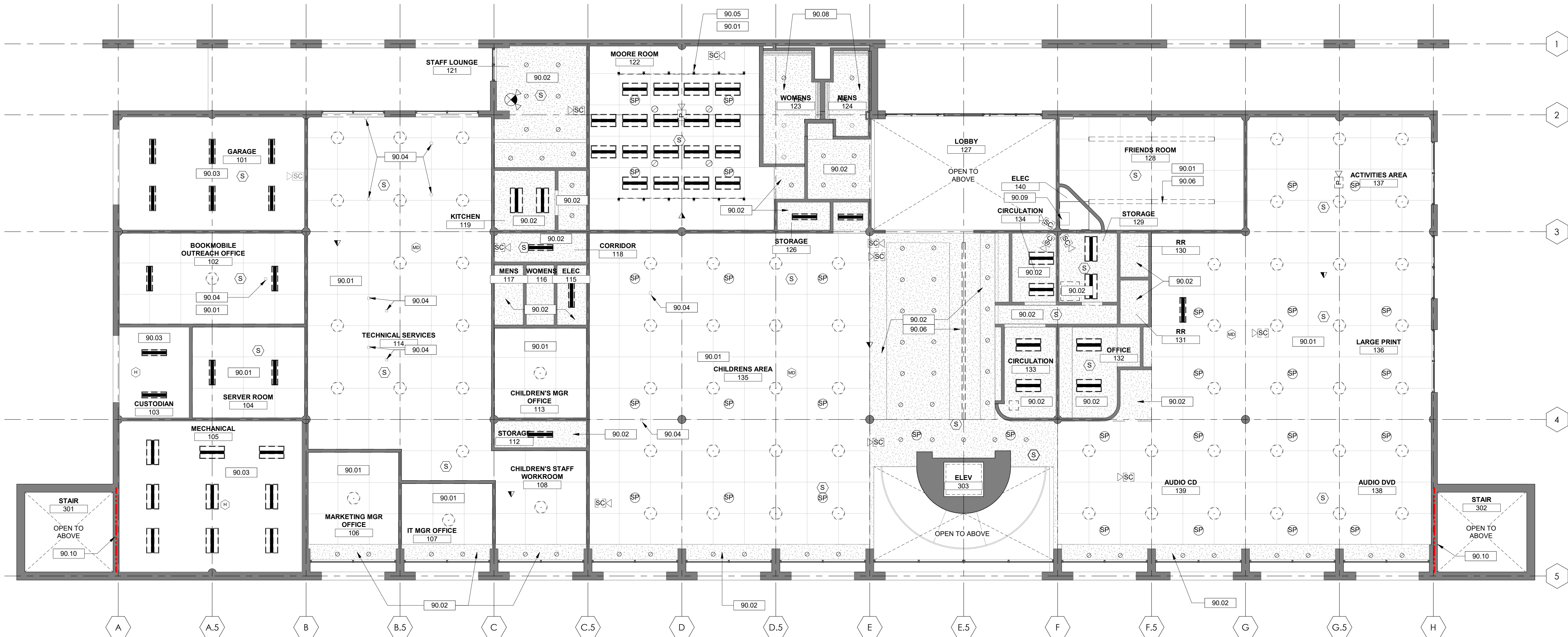
DRAWING NO.

A101

Drawn By: LMG Checked By: MTP



2 DEMO RCP - 2ND FLOOR
A201 1/8" = 1'-0"



1 DEMO RCP - 1ST FLOOR
A201 1/8" = 1'-0"

GENERAL DEMOLITION NOTES

- ALL HAZARDOUS MATERIALS SHALL BE REMOVED PRIOR TO START OF CONSTRUCTION UNDER SEPARATE CONTRACT.
- ALL MATERIALS THAT HAVE BEEN DEMOLISHED SHALL BE REMOVED IMMEDIATELY AND DISPOSED OF PROPERLY. NO DEMOLISHED MATERIALS SHALL BE STOCKPILED ON SITE.
- PROTECT OWNER'S PROPERTY AND PERSONS AT ALL TIMES.
- ANY ITEMS NOT SHOWN TO BE DEMOLISHED THAT ARE DAMAGED SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR.
- COORDINATE ANY SYSTEMS SHUTDOWNS WHICH MAY BE REQUIRED WITH THE OWNER.
- PRIOR TO COMMENCING WITH THE DEMOLITION, THE CONTRACTOR SHALL ASCERTAIN FROM THE OWNER WHETHER OR NOT THE OWNER WISHES TO RETAIN ANY ITEMS. ANY SUCH ITEMS SHALL BE REMOVED WITH CARE SO AS TO PREVENT UNNECESSARY DAMAGE AND TURNED OVER TO THE OWNER.
- THE CONTRACTOR SHALL CONTROL AND LIMIT DUST RESULTING FROM DEMOLITION AND PREVENT THE SPREAD OF DUST TO THE REMAINING BUILDING.
- BURNING ON THE SITE WILL NOT BE PERMITTED.
- EXPLOSIVES WILL NOT BE PERMITTED UNLESS SPECIFICALLY APPROVED.
- WHERE DAMPERS, CONDUIT, PIPING, ETC. ARE REMOVED FROM RATED WALLS, WALLS SHALL BE PATCHED AND SEALED TO MAINTAIN FIRE AND SMOKE RATING INTEGRITY OF WALLS.
- CONTRACTOR SHALL MAKE FUNCTIONAL ALL CIRCUITS DISRUPTED BY ANY DEMOLITION.
- DEMOLITION INCLUDES REMOVAL OF ALL ITEMS NECESSARY TO FACILITATE THE NEW CONSTRUCTION, WHETHER SPECIFICALLY INDICATED OR NOT, UNLESS NOTED OTHERWISE. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS, INCLUDING EXISTING POWER, DUCTWORK, AND MISCELLANEOUS PIPING TO BE REMOVED. ALL UTILITIES DEMOLISHED SHALL BE COMPLETELY REMOVED AND/OR CAPPED. REMOVE ALL WIRING, CONDUIT, WIRING SYSTEMS AND EQUIPMENT MADE OBSOLETE BY DEMOLITION.
- ALL FINISHES TO REMAIN THAT ARE DISTURBED SHALL BE REPAIRED TO MATCH EXISTING.
- ALL EXISTING BOOKSHELVES AND EQUIPMENT TO BE PROTECTED DURING DEMOLITION.

DRAWING NOTES

- 90.01 DEMOLISH ALL EXISTING 5' X 5' CEILING SYSTEM AND ANY ASSOCIATED EXISTING LIGHTS, SPEAKERS, SMOKE DETECTORS, OCCUPANT SENSORS, CAMERAS, WIRELESS ACCESS POINTS, AND DIFFUSERS. ALL DIFFUSERS AND RETURNS TO BE REMOVED AND REPLACED WITH NEW. REFER TO MECHANICAL DRAWINGS. ALL LIGHTS AND OTHER MISCELLANEOUS DEVICES TO BE REMOVED UNLESS NOTED OTHERWISE. REFER TO ELECTRICAL DRAWINGS. PREPARE AREA FOR NEW CEILING.
- 90.02 EXISTING GYPSUM CEILING TO REMAIN. DEMOLISH ANY ASSOCIATED EXISTING LIGHTS, SPEAKERS, SMOKE DETECTORS, OCCUPANT SENSORS, CAMERAS, WIRELESS ACCESS POINTS, AND DIFFUSERS. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS. PATCH AND REPAIR CEILING TO MATCH EXISTING AS REQUIRED.
- 90.03 EXISTING OPEN CEILING. ALL EXISTING LIGHTS, SPEAKERS, SMOKE DETECTORS, OCCUPANT SENSORS, CAMERAS, AND WIRELESS ACCESS POINTS TO BE REMOVED.
- 90.04 EXISTING POWER POLE TO REMAIN AND BE PROTECTED DURING CONSTRUCTION. CABLES AND DEVICES TO BE UPDATED. REFER TO ELECTRICAL DRAWINGS.
- 90.05 EXISTING TRACK LIGHTING TO BE REMOVED.
- 90.06 EXISTING PENDANT LIGHTING TO BE REMOVED.
- 90.08 EXISTING RESTROOM CEILING TO REMAIN.
- 90.09 EXISTING IDF CABINET TO REMAIN. REFER TO ELECTRICAL DRAWINGS.
- 90.10 EXISTING 2 HOUR FIRE RATED WALL TO REMAIN. PROTECT ALL NEW PENETRATIONS TO MAINTAIN THE FIRE RATING OF THE EXISTING WALL. ALL EXISTING DOORS AND FRAMES TO REMAIN.

RCP LEGEND

- EXISTING 5' x 5' CEILING SYSTEM
- EXISTING GYPSUM CEILING
- WIRELESS ACCESS POINT
- PROJECTOR
- SPEAKER
- EXIT SIGN
- LIGHT FIXTURE
- RECESSED LIGHT FIXTURE
- PENDANT LIGHT FIXTURE
- CAMERA
- OCCUPANCY SENSOR
- MOTION DETECTOR
- SMOKE DETECTOR
- HEAT DETECTOR
- EXISTING 2 HOUR FIRE RATED WALL

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DRAWING NAME

DEMOLITION REFLECTED CEILING PLANS

DRAWING NO.

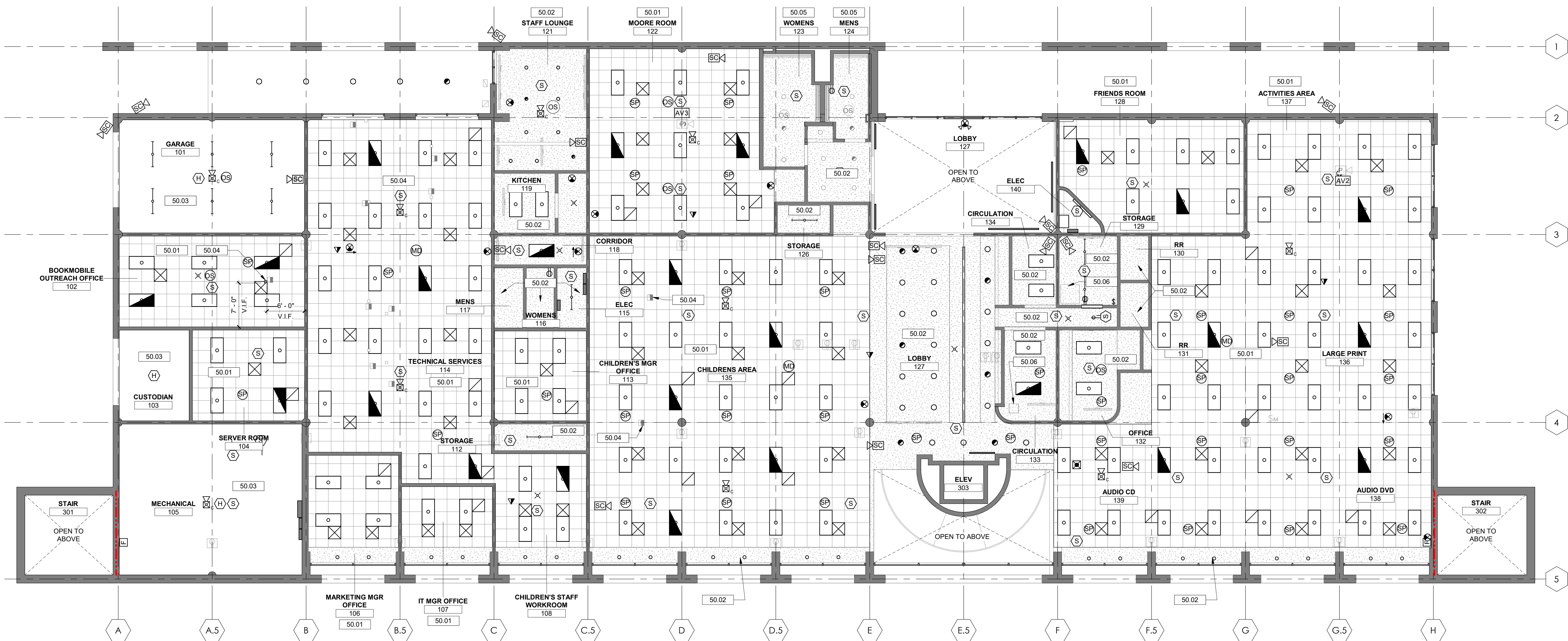
A201

Drawn By: LMG Checked By: MTP



2 REFLECTED CEILING PLAN - 2ND FLOOR

A202 1/8" = 1'-0"



1 REFLECTED CEILING PLAN - 1ST FLOOR

A202 1/8" = 1'-0"

REFLECTED CEILING PLAN NOTES

- COORDINATE ALL LIGHTING TYPES WITH ELECTRICAL DRAWINGS.
- REFER TO ELECTRICAL DRAWINGS FOR ALL CEILING MOUNTED EXIT LIGHTS, SMOKE DETECTORS, SPEAKERS, FIRE ALARM DEVICES, ETC. FOR ITEMS NOT INDICATED ON THE REFLECTED CEILING PLAN, COORDINATE LOCATIONS WITH THE ARCHITECT PRIOR TO INSTALLATION.
- INSTALL ACCESS PANELS IN GYPSUM BOARD CEILINGS AND SOFFITS WHERE ACCESS, SERVICE OR ADJUSTMENT TO MECHANICAL PLUMBING OR ELECTRICAL ITEMS MAY BE REQUIRED. COORDINATE LOCATIONS AND SIZES WITH ARCHITECT.
- COORDINATE ALL HVAC MECHANICAL DEVICES WITH MECHANICAL DRAWINGS.
- IF AS-BUILT CONDITIONS DEMAND THAT A CEILING BOARD LARGER THAN 2'-0" IN ANY DIMENSION BE USED IN THE PERIMETER BOARDS OF A TYPICAL 2'X2' GRID, THEN THAT BOARD SHALL BE CUT FROM A 2'X4' BOARD. A DOUBLE WALL ANGLE SHALL NOT BE USED IN THE CEILING GRID SYSTEM.
- CEILING SUSPENSION SYSTEM TO MEET SEISMIC REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE CURRENT EDITION.
- LOCATE ALL TRACK & RECESSED FIXTURES AT THE CENTERLINE OF TILE UNLESS NOTED OTHERWISE. INSTALL ALL ELECTRICAL SYSTEM COMPONENTS WITHOUT INTERFERING WITH DUCTS, PIPES, BEAMS, ETC. LOCATE LIGHT FIXTURES SYMMETRICALLY, AS DIMENSIONED, OR AS INDICATED ON THE REFLECTED CEILING PLANS. IN THE EVENT OF CONFLICT, THE ARCHITECT WILL DECIDE WHICH ITEM TO RELOCATE WITHOUT REGARD TO WHICH WAS INSTALLED FIRST.
- COORDINATE ALL EXPOSED CEILING WORK WITH ALL TRADES, AND PROVIDE SKETCH (FOR PRE-INSTALLATION MEETING) OF ALL CONDUIT RUNS, JUNCTION BOXES, DUCTWORK AND SUPPORTS, PLUMBING (OVERHEAD) AND FIRE PROTECTION PIPING, IN EXPOSED CEILING AREAS. CONTRACTOR SHALL SCHEDULE A PRE-INSTALLATION COORDINATION MEETING WITH ALL TRADES REPRESENTED, INCLUDING ARCHITECT, WHERE FINAL APPROVAL FOR ALL ROUTING WILL BE GRANTED. ALL EQUIPMENT, PIPING OR ACCESSORIES INSTALLED IN THESE AREAS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION.
- REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR REVOKED POWER, DUCTWORK, AND MISCELLANEOUS PIPING.

DRAWING NOTES

- NEW 2' x 2' CEILING GRID. INSTALL NEW LIGHTS, SPEAKERS, SMOKE DETECTORS, OCCUPANT SENSORS, CAMERAS, AND WIRELESS ACCESS POINTS. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS.
- EXISTING GYPSUM CEILING TO REMAIN. INSTALL NEW LIGHTS, SPEAKERS, SMOKE DETECTORS, OCCUPANT SENSORS, CAMERAS, AND WIRELESS ACCESS POINTS. PATCH AND REPAIR CEILING TO MATCH EXISTING CEILING WHERE ELECTRICAL OR MECHANICAL DEVICES ARE REMOVED AND NOT REPLACED. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS.
- OPEN CEILING TO REMAIN. INSTALL NEW LIGHTS, SPEAKERS, SMOKE DETECTORS, OCCUPANT SENSORS, CAMERAS, AND WIRELESS ACCESS POINTS. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS.
- EXISTING POWER POLE TO REMAIN AND BE PROTECTED DURING CONSTRUCTION. CABLES AND DEVICES TO BE UPDATED. REFER TO ELECTRICAL DRAWINGS.
- EXISTING RESTROOM CEILING, LIGHTS, SMOKE DETECTORS, OCCUPANT SENSORS, AND DIFFUSERS TO REMAIN.
- MAINTAIN EXISTING CEILING ACCESS PANEL.
- NEW POWER POLE TO MATCH EXISTING POWER POLES. REFER TO ELECTRICAL DRAWINGS.

RCP LEGEND

- NEW 2' x 2' CEILING SYSTEM
- EXISTING GYPSUM CEILING
- WIRELESS ACCESS POINT
- PROJECTOR
- SPEAKER
- EXIT SIGN
- LIGHT FIXTURE
- RECESSED LIGHT FIXTURE
- PENDANT LIGHT FIXTURE
- CAMERA
- OCCUPANCY SENSOR
- MOTION DETECTOR
- SMOKE DETECTOR
- HEAT DETECTOR
- EXISTING 2 HOUR FIRE RATED WALL

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DRAWING NAME

NEW REFLECTED CEILING PLANS

DRAWING NO.

A202

Drawn By: LMG Checked By: MTP

GENERAL PROJECT SCOPE - MECHANICAL
THE GENERAL SCOPE OF THIS PROJECT IS TO REPLACE ALL AIR TERMINALS LOCATED IN CEILINGS THAT ARE BEING REPLACED. ALL EXISTING DUCTWORK IS TO BE CLEANED, AFTER COMPLETION OF RENOVATIONS. ALL EXISTING DUCT SYSTEMS ARE TO BE REBALANCED. THIS PROJECT UTILIZES A RETURN AIR PLENUM, ALL MATERIALS USED WITHIN THE PLENUM SHALL BE UL LISTED AND PLENUM RATED. COORDINATE WITH ALL OTHER TRADES PRIOR TO BEGINNING WORK.

GENERAL MECHANICAL NOTES
1. WORK SHALL CONFORM WITH TO ALL CURRENT CODES AND AUTHORITY HAVING JURISDICTION.
2. DRAWINGS ARE SCHEMATIC, NOT ALL DUCT RISES AND DROPS, ACCESS DOORS, VOLUME DAMPERS, ETC., ARE SHOWN. TRADES ARE TO COORDINATE THEIR WORK WITH ALL OTHER TRADES TO AVOID CONFLICTS. GENERALLY, DUCTWORK SHALL BE KEPT AS HIGH AS POSSIBLE.
3. COORDINATE THE INSTALLATION OF MECHANICAL EQUIPMENT, DUCTWORK, ETC. TO FIT WITHIN THE SPACE ALLOWED BY THE ARCHITECTURAL AND STRUCTURAL CONDITIONS. CUTTING OR OTHERWISE ALTERING ANY STRUCTURAL MEMBERS SHALL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE STRUCTURAL ENGINEER OF RECORD.
4. KEEP A SET OF MARKED UP PRINTS WITH ANY FIELD CHANGES MADE DURING CONSTRUCTION TO CREATE AN 'AS-BUILT' SET OF PRINTS TO BE TURNED OVER TO THE OWNER AT THE COMPLETION OF THE PROJECT.
5. PROVIDE ACCESS PANELS IN CEILINGS AND WALLS TO ALLOW ACCESS TO VALVES, TRAPS, DAMPERS, CLEANOUTS, CONTROLS, ETC. MINIMUM ACCESS SIZE SHALL BE 12"x12", UNLESS LIMITED BY PHYSICAL CONSTRAINTS.
6. INSTALL ALL MECHANICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
7. ALL DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS.
8. ALL SUPPLY AND RETURN DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH THE LATEST SMACNA STANDARDS.
9. SUPPORT DUCTWORK FROM BUILDING STRUCTURE IN ACCORDANCE WITH SMACNA STANDARDS.
10. ANY ADDITIONAL/SUPPLEMENTAL STEEL MEMBERS REQUIRED TO SUPPORT DUCTWORK OR EQUIPMENT FROM MAIN STRUCTURE SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.
11. ALL DUCT INSULATION SHALL MEET THE MINIMUM REQUIREMENTS OF U.L. 181 FOR FLAME SPREAD AND SMOKE DEVELOPMENT, SHALL BE U.L. LISTED, AND SHALL MEET OR EXCEED CURRENTLY ADOPTED ENERGY CODE REQUIREMENTS
12. TRANSFER DUCTS SHALL BE INTERNALLY LINED TO AID IN CANCELING NOISE TRANSFER.
13. COORDINATE LOCATIONS OF GRILLES, REGISTERS AND DIFFUSERS WITH ARCHITECTURAL REFLECTED CEILING PLAN. LOCATIONS SHOWN ARE APPROXIMATE, ADJUST LOCATIONS IN THE FIELD AS REQUIRED BY CONSTRUCTION CONSTRAINTS.
14. PROVIDE EACH SUPPLY AIR OUTLET OR DIFFUSER WITH ITS OWN BALANCING DEVICE. DEVICES CAN BE LOCATED IN DUCTWORK OR SUPPLY AIR DEVICE ITSELF.
15. DUCT MOUNTED SMOKE DETECTORS ARE FURNISHED, WIRED, AND PROGRAMMED BY THE ELECTRICAL CONTRACTOR AND INSTALLED IN DUCTWORK BY THE MECHANICAL CONTRACTOR.
16. PROVIDE FIRE STOPPING AS REQUIRED BY THE BUILDING CODE AROUND PIPES THAT PENETRATE RATED ASSEMBLIES AND AROUND DUCTS THAT ARE NOT PROTECTED WITH FIRE DAMPERS.

EQUIPMENT TAGGING LEGEND			
EQUIPMENT DESIGNATION	TAGGING DESCRIPTION		
AIR DEVICES - S,R,E,T	TYPE	EQUIPMENT DESIGNATION	
		CFM	
		EQUIPMENT DESIGNATION	
		PLAN DESIGNATION	

AIR SYSTEM SPECIFIC ABBREVIATIONS			
AC	AIR CONDITIONING	HV	HEATING AND VENTILATING UNIT
ACC	AIR COOLED CONDENSER	IH	INTAKE HOOD
ACCU	AIR COOLED CONDENSATING UNIT	LAT	LEAVING AIR TEMPERATURE
ACD	AUTOMATIC CONTROL DAMPER	LUVR	LOUVER
ACU	AIR CONDITIONING UNIT	LUVDO	LOUVERED DOOR
AHU	AIR HANDLING UNIT	OA	OUTSIDE AIR
ALD	ACOUSTICALLY LINED DUCT	OAI	OUTSIDE AIR INTAKE
ATD	AIR TERMINAL DEVICE	OBD	OPPOSED BLADE DAMPER
BDD	BACKDRAFT DAMPER	OED	OPENED END DUCT
CC	COOLING COIL	(R)	RELOCATED
CD	CEILING DIFFUSER	RA	RETURN AIR
CFM	CUBIC FEET PER MINUTE	RD	REFRIGERANT DISCHARGE
CG	CEILING GRILLE	RF	RETURN FAN
DIFF	DIFFUSER	RG	RETURN GRILLE
DX	DIRECT EXPANSION	RLF	REFRIGERANT LIQUID RELIEF
(E)	EXISTING	RR	RETURN REGISTER
EDH	ELECTRIC DUCT HEATER	RS	REFRIGERANT SUCTION
EF	EXHAUST FAN	RTU	ROOFTOP UNIT
EG	EXHAUST GRILLE	SA	SUPPLY AIR
ER	EXHAUST REGISTER	SD	SMOKE DETECTOR
ERHC	ELECTRIC REHEAT COIL	SD	SMOKE DAMPER
ESP	EXTERNAL STATIC PRESSURE	SF	SUPPLY FAN
EUH	ELECTRIC UNIT HEATER	SG	SUPPLY GRILLE
F	FAN	SGD	SLIDE GATE DAMPER
FA	FREE AREA	SM	SHEET METAL
FC	FORWARD CURVE	SP	STATIC PRESSURE
FCU	FAN COIL UNIT	SR	SUPPLY REGISTER
FD	FIRE DAMPER (W/ACCESS DOOR)	TE	TOILET EXHAUST
FLTR	FILTER	TF	TRANSFER FAN
FO	FLAT OVAL	TG	TRANSFER GRILLE
FPI	FINS PER INCH	TR	TRANSFER
FSD	FIRE SMOKE DAMPER	TSP	TOTAL STATIC PRESSURE
GDH	GAS DUCT HEATER	UC	UNDERCUT DOOR
GE	GENERAL EXHAUST	VAV	VARIABLE AIR VOLUME
GF	GAS FURNACE	VVD	VOLUME DAMPER
GH	GRAVITY HOOD	VFD	VARIABLE FREQUENCY DRIVE
GUH	GAS UNIT HEATER	WMS	WIRE MESH SCREEN
HC	HEATING COIL		

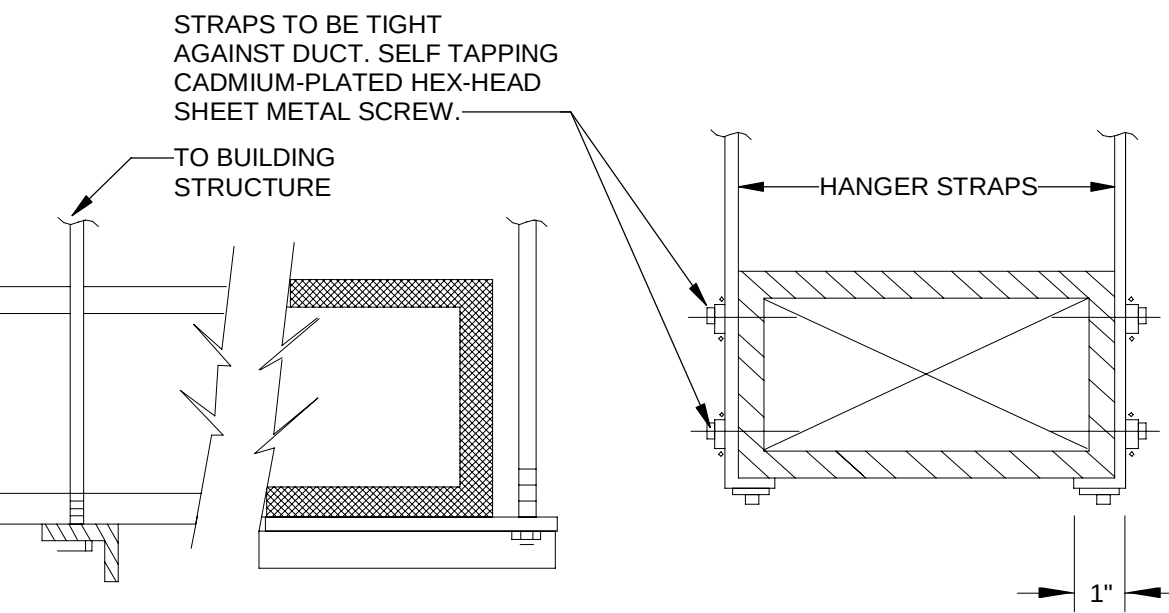
AIR DISTRIBUTION SCHEDULE									
MARK	TYPE	DESCRIPTION	DESIGN BASIS		FACE SIZE	NECK SIZE	MATERIAL	NOTES	
			MANUF.	MODEL					
S-1	SUPPLY	SQUARE 3-CONE, FIXED PATTERN, CEILING MOUNT	PRICE	ASCD	24"x24"	8"Ø	ALUMINUM	1, 2	
S-2	SUPPLY	SQUARE 3-CONE, FIXED PATTERN, CEILING MOUNT	PRICE	ASCD	24"x24"	10"Ø	ALUMINUM	1, 2	
R-1	RETURN	PERFORATED FACE, CEILING MOUNT	PRICE	APDDR	24"x24"	12"x12"	ALUMINUM	1, 2	
R-2	RETURN	PERFORATED FACE, CEILING MOUNT	PRICE	APDDR	24"x24"	14"x14"	ALUMINUM	1, 2	
NOTES: 1. FINISH SHALL BE SELECTED DURING SUBMITTAL PROCESS. 2. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR MOUNTING TYPE.									

EXISTING AIR HANDLER SCHEDULE				
MARK	AREA SERVED	SUPPLY CFM	OUTSIDE AIR CFM	
(E)AHU-1	TECHNICAL SERVICE AREA	3060	610	
(E)AHU-2	121-STAFF LOUNGE	540	110	
(E)AHU-3	122-MEETING RM	930	350	
(E)AHU-4	BROWSING AREA	3320	890	
(E)AHU-5	LIBRARY	3570	930	
(E)AHU-6	LIBRARY	2755	50	
(E)AHU-7	LIBRARY	7285	230	
(E)AHU-8	LIBRARY	6935	625	
(E)AHU-9	LIBRARY	2590	550	
NOTES: 1. EQUIPMENT IS EXISTING TO REMAIN. INFORMATION IN SCHEDULE IS FOR TESTING AND BALANCING ONLY. 2. AIRFLOWS NOTED ARE FROM PREVIOUSLY EXISTING INFORMATION. REBALANCE TO AIRFLOWS SHOWN. 3. VERIFY THAT EQUIPMENT IS IN GOOD WORKING ORDER AND REPORT ANY REPAIR OR MAINTENANCE NEEDS TO OWNER'S REPRESENTATIVE.				

EXISTING EXHAUST FAN SCHEDULE		
MARK	AREA SERVED	CFM
(E)EF-1	105-MECHANICAL ROOM	1125
(E)EF-2	116, 117-RESTROOMS	200
(E)EF-3	204, 205-RESTROOMS	500
(E)EF-4	123, 124, 130, 131-RESTROOMS	550
(E)EF-5	ELEVATOR PIT	140
NOTES: 1. EQUIPMENT IS EXISTING TO REMAIN. INFORMATION IN SCHEDULE IS FOR TESTING AND BALANCING ONLY. 2. AIRFLOWS NOTED ARE FROM PREVIOUSLY EXISTING INFORMATION. REBALANCE TO AIRFLOWS SHOWN. 3. VERIFY THAT EQUIPMENT IS IN GOOD WORKING ORDER AND REPORT ANY REPAIR OR MAINTENANCE NEEDS TO OWNER'S REPRESENTATIVE.		

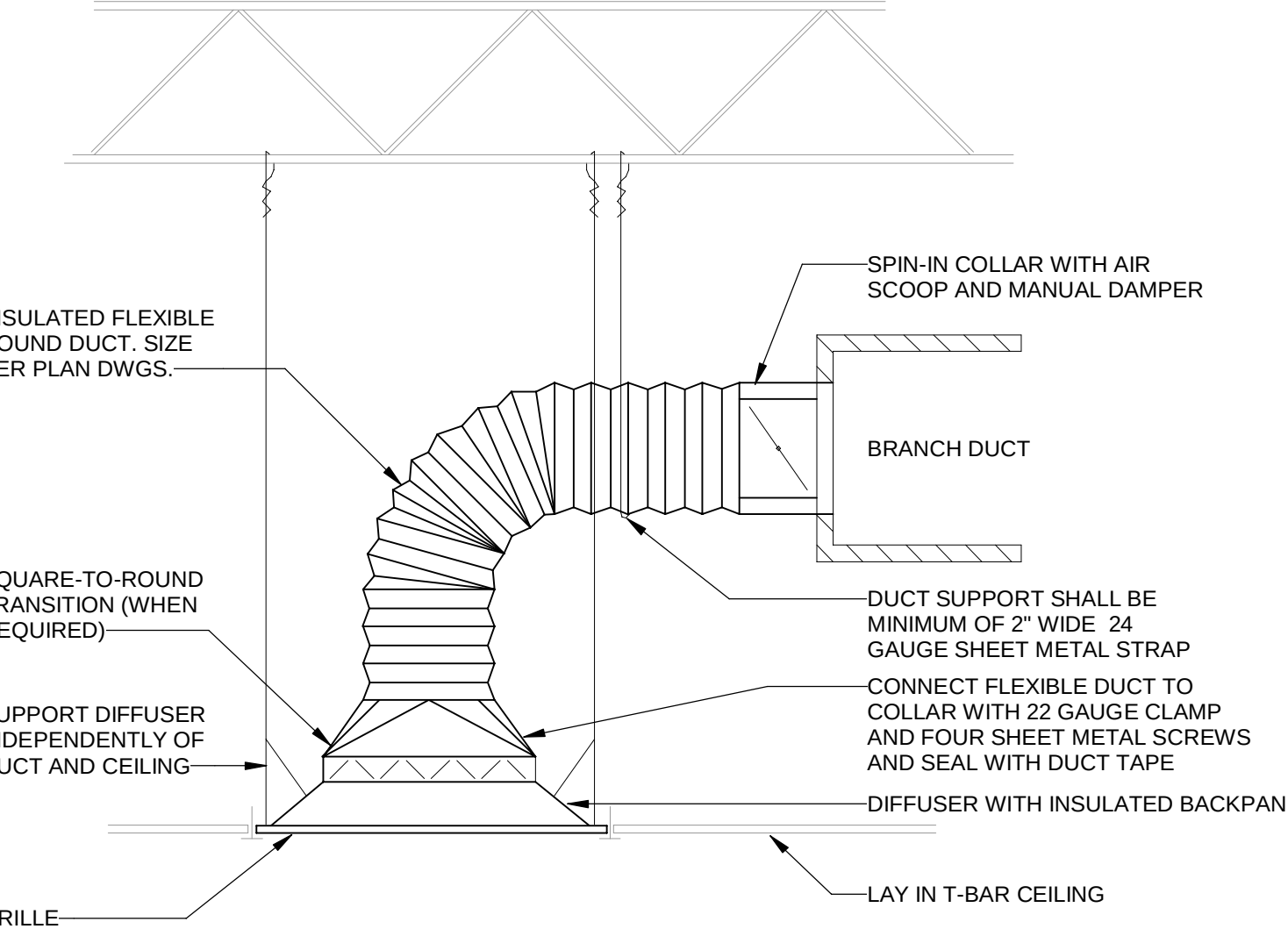
EXISTING VAV TERMINAL SCHEDULE		
MARK	AREA SERVED	CFM
(E)VAV-1-1	102-EXTENSION	350
(E)VAV-1-2	104-IT	260
(E)VAV-1-3	114-TECH. SERVICES	300
(E)VAV-1-4	114-TECH. SERVICES	270
(E)VAV-1-5	114-TECH. SERVICES	270
(E)VAV-1-6	114-TECH. SERVICES	270
(E)VAV-1-7	106-OFFICE DIRECTOR	550
(E)VAV-1-8	107-OFFICE ADMIN.	500
(E)VAV-1-9	108-SECRETARY	550
(E)VAV-1-10	113-CONFERENCE	150
(E)VAV-1-11	134-CHILDRENS AREA	705
(E)VAV-1-12	134-CHILDRENS AREA	380
(E)VAV-1-13	134-CHILDRENS AREA	485
(E)VAV-1-14	134-CHILDRENS AREA	760
(E)VAV-1-15	134-CHILDRENS AREA	760
(E)VAV-1-16	133-CIRCULATION ROOM	180
(E)VAV-1-17	132-OFFICE	285
(E)VAV-1-18	130-BROWSING	615
(E)VAV-1-19	130-BROWSING	380
(E)VAV-1-20	130-BROWSING	410
(E)VAV-1-21	130-BROWSING	760
(E)VAV-1-22	130-BROWSING	410
(E)VAV-1-23	129-STORAGE	60
(E)VAV-1-24	130-BROWSING	340
(E)VAV-1-25	128-STORY HOUR	310
(E)VAV-2-1	202-ADULT READING	705
(E)VAV-2-2	202-ADULT READING	705
(E)VAV-2-3	202-ADULT READING	705
(E)VAV-2-4	202-ADULT READING	940
(E)VAV-2-5	202-ADULT READING	940
(E)VAV-2-6	202-ADULT READING	705
(E)VAV-2-7	202-ADULT READING	940
(E)VAV-2-8	202-ADULT READING	940
(E)VAV-2-9	202-ADULT READING	705
(E)VAV-2-10	209-REFERENCE	670
(E)VAV-2-11	209-REFERENCE	670
(E)VAV-2-12	209-REFERENCE	470
(E)VAV-2-13	209-REFERENCE	890
(E)VAV-2-14	209-REFERENCE	890
(E)VAV-2-15	209-REFERENCE	890
(E)VAV-2-16	209-REFERENCE	670
(E)VAV-2-17	208-REFERENCE WORK RM	225
(E)VAV-2-18	207-LOCAL HISTORY	670
(E)VAV-2-19	207-LOCAL HISTORY	445
(E)VAV-2-20	210-SHELVING	445
NOTES: 1. EQUIPMENT IS EXISTING TO REMAIN. INFORMATION IN SCHEDULE IS FOR TESTING AND BALANCING ONLY. 2. AIRFLOWS NOTED ARE FROM PREVIOUSLY EXISTING INFORMATION. REBALANCE TO AIRFLOWS SHOWN. 3. VERIFY THAT EQUIPMENT IS IN GOOD WORKING ORDER AND REPORT ANY REPAIR OR MAINTENANCE NEEDS TO OWNER'S REPRESENTATIVE.		

HVAC SYMBOLS AND CONVENTIONS	
SYMBOL	DESCRIPTION
	TURNING VANES
	MANUAL VOLUME DAMPER
	FIRE DAMPER
	FIRE/SMOKE DAMPER
	SMOKE DETECTOR
	MOTOR OPERATED DAMPER
	DUCTWORK TEMPERATURE SENSOR
	DUCTWORK HUMIDITY SENSOR
	DUCTWORK STATIC PRESSURE SENSOR
	SUPPLY DUCT (UP/DOWN)
	RETURN DUCT (UP/DOWN)
	EXHAUST DUCT (UP/DOWN)
	FLEX DUCT
	HUMIDISTAT/HUMIDITY SENSOR
	THERMOSTAT
	SPACE TEMPERATURE SENSOR
	CARBON DIOXIDE SENSOR
	UNDERCUT DOOR
	RETURN / EXHAUST AIRFLOW DIRECTION
	SUPPLY AIRFLOW DIRECTION
	POINT OF DISCONNECTION
	POINT OF CONNECTION NEW TO EXISTING
	SUPPLY DIFFUSER
	RETURN DIFFUSER
	EXHAUST DIFFUSER
	LINEAR SLOT DIFFUSER
	REMOVE TO POINT AND CAP
	REMOVE TO POINT FOR RECONNECTION
	UNION
	PIPE BRANCH TAKE-OFF FROM BOTTOM
	PIPE BRANCH TAKE-OFF FROM TOP
	PIPE DROP
	PIPE RISE
	AC CONDENSATE DRAIN PIPING

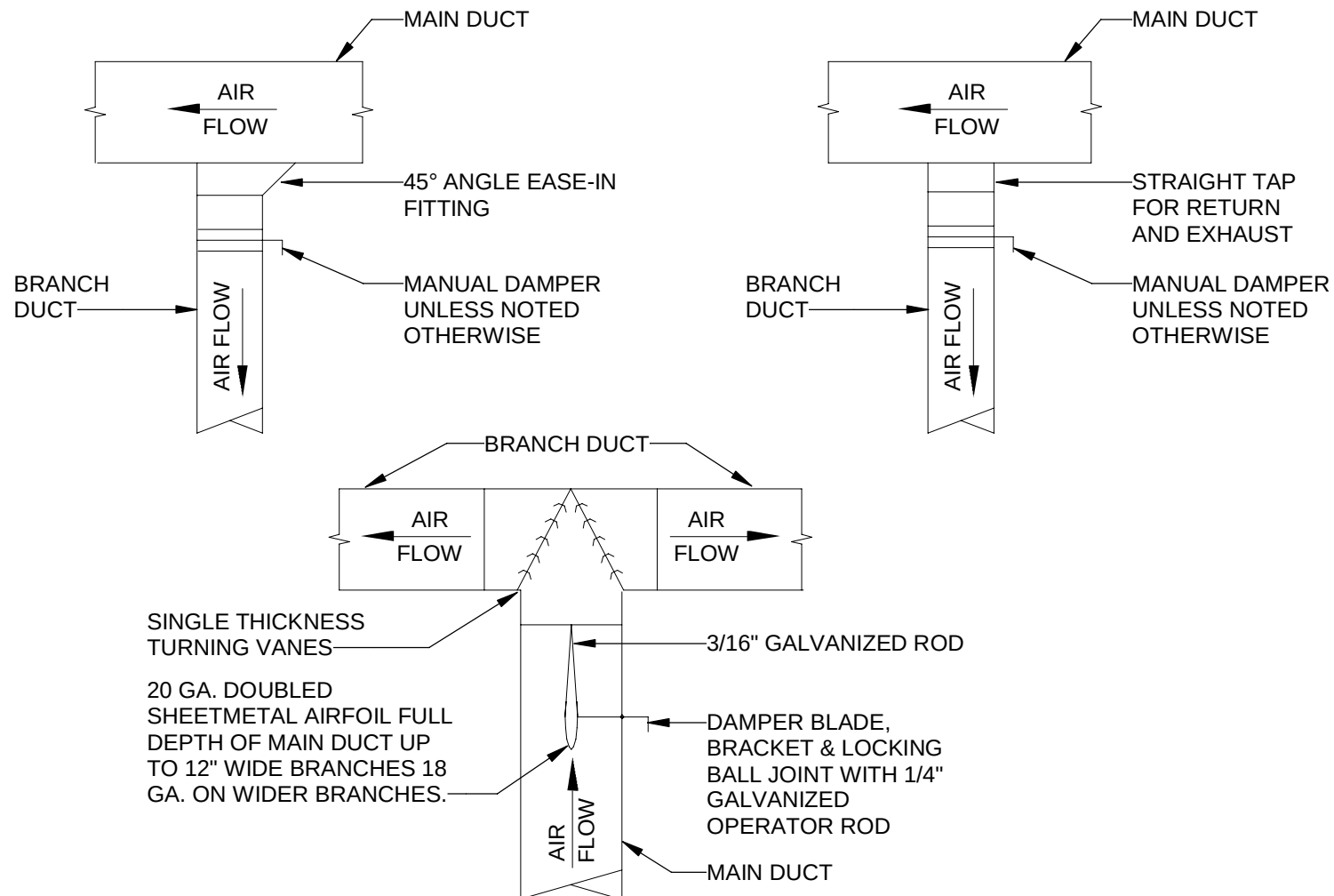


HANGER SIZES FOR RECTANGULAR DUCTS			
MAX. SIDE	HANGER	SUPPORT ANGLE HORIZONTAL	SPACING MAXIMUM
30"	1"x18" GAUGE STRAP	NONE REQUIRED	10'-0"
36"	1/4" ROUND ROD	1-1/2" x 1-1/2" x 1/8"	8'-0"
48"	1/4" ROUND ROD	2" x 2" x 1/8"	8'-0"
60"	5/16" ROUND ROD	2" x 2" x 1/8"	8'-0"
84"	3/8" ROUND ROD	2" x 2" x 1/8"	8'-0"

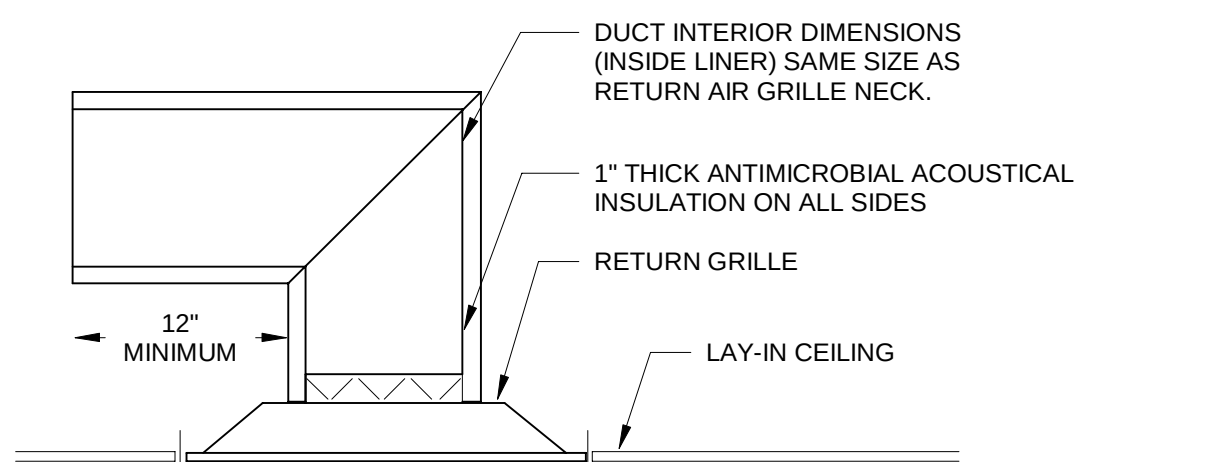
1 DUCT HANGER SIZING - RECTANGULAR DUCT
NOT TO SCALE



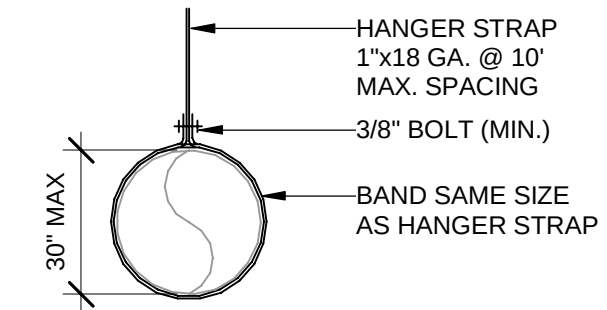
3 SUPPLY DIFFUSER INSTALLATION (FLEX DUCT)
NOT TO SCALE



2 TYPICAL RECTANGULAR LOW-PRESSURE BRANCH TAKE-OFFS
NOT TO SCALE

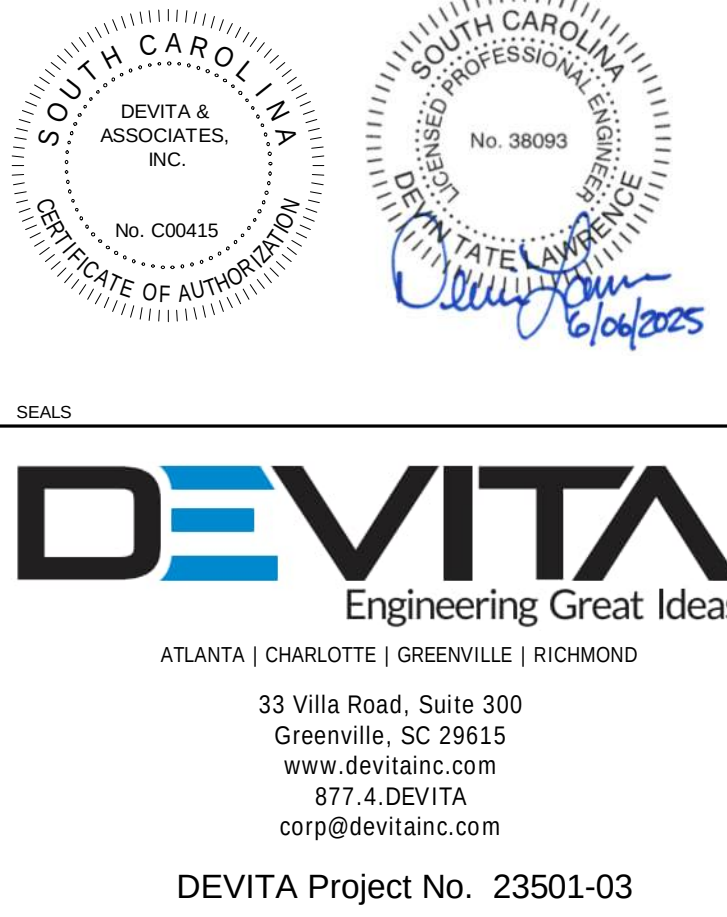


4 PLENUM RETURN GRILLE WITH SOUND ATTENUATION
NOT TO SCALE



5 DUCT HANGER SIZING - ROUND DUCT
NOT TO SCALE

MECHANICAL SHEET LIST	
SHEET NUMBER	SHEET NAME
M001	MECHANICAL LEGEND, NOTES, SCHEDULES, AND DETAILS
M101	MECHANICAL DEMOLITION PLAN - FIRST FLOOR
M102	MECHANICAL DEMOLITION PLAN - SECOND FLOOR
M201	MECHANICAL FLOOR PLAN - FIRST FLOOR
M202	MECHANICAL FLOOR PLAN - SECOND FLOOR



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ROCK HILL, SC 29730

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DRAWING NAME

MECHANICAL LEGEND, NOTES, SCHEDULES, AND DETAILS

DRAWING NO.

M001

Drawn By: DTL Checked By: DTL



1. DISCONNECT DUCTWORK AT LOCATION SHOWN. DEMOLISH EXISTING DUCTWORK AND ASSOCIATED AIR TERMINAL DOWNSTREAM.
2. DEMOLISH EXISTING PLENUM RETURN AIR TERMINAL.
3. DEMOLISH EXISTING DUCT DETECTOR. PREPARE FOR INSTALLATION OF NEW DUCT DETECTOR.

PROJECT INFORMATION

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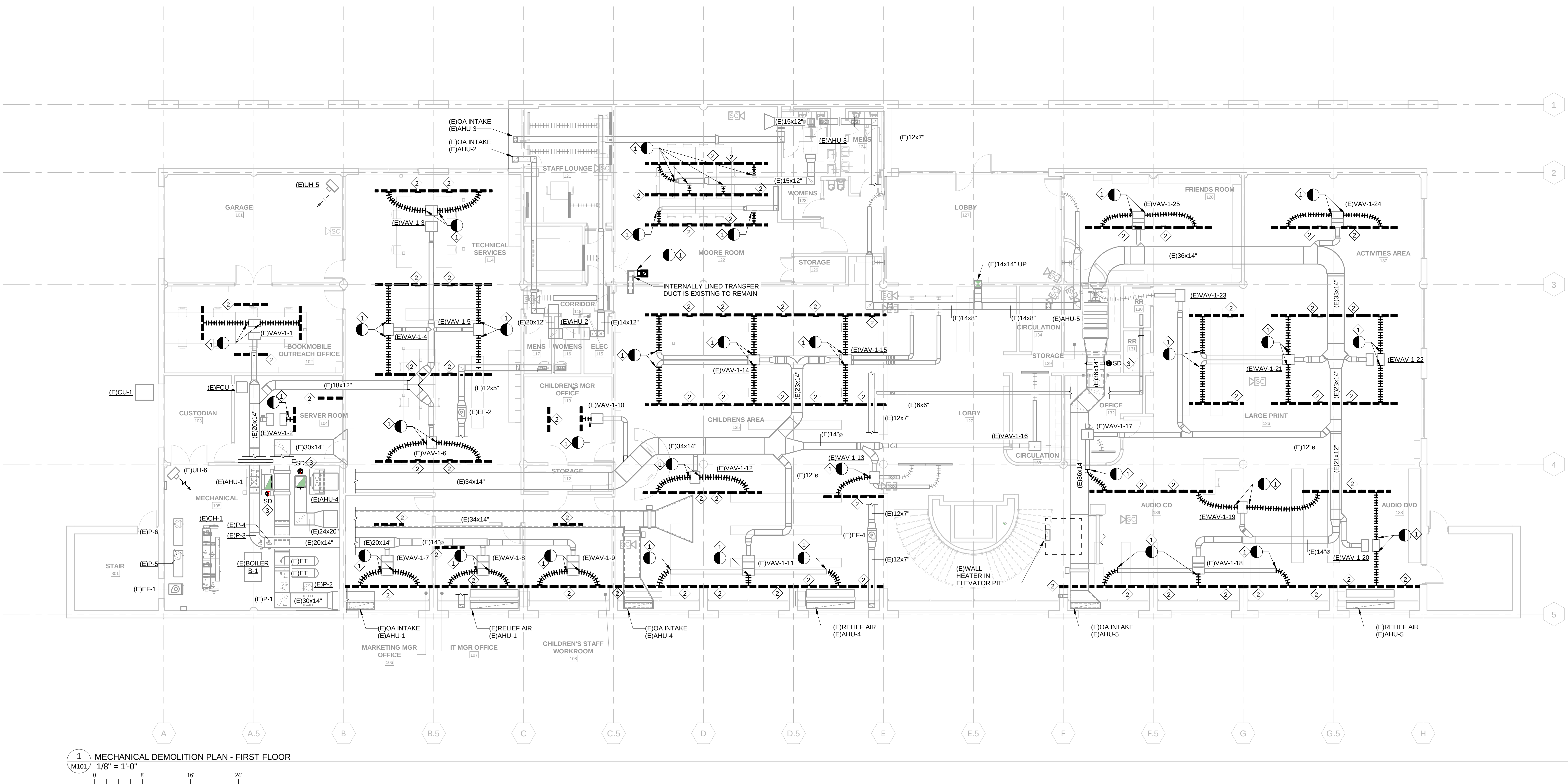
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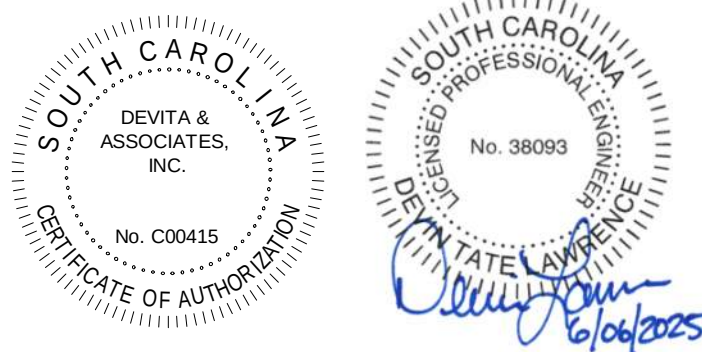
DRAWING NAME

MECHANICAL DEMOLITION PLAN - FIRST FLOOR

M101

Drawn By: DTL Checked By: DT





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DEVITA Project No. 23501-03

MECHANICAL DEMOLITION KEY NOTES:

1. DISCONNECT DUCTWORK AT LOCATION SHOWN. DEMOLISH EXISTING DUCTWORK AND ASSOCIATED AIR TERMINAL DOWNSTREAM.
2. DEMOLISH EXISTING PLENUM RETURN AIR TERMINAL.
3. DEMOLISH EXISTING DUCT DETECTOR. PREPARE FOR INSTALLATION OF NEW DUCT DETECTOR.

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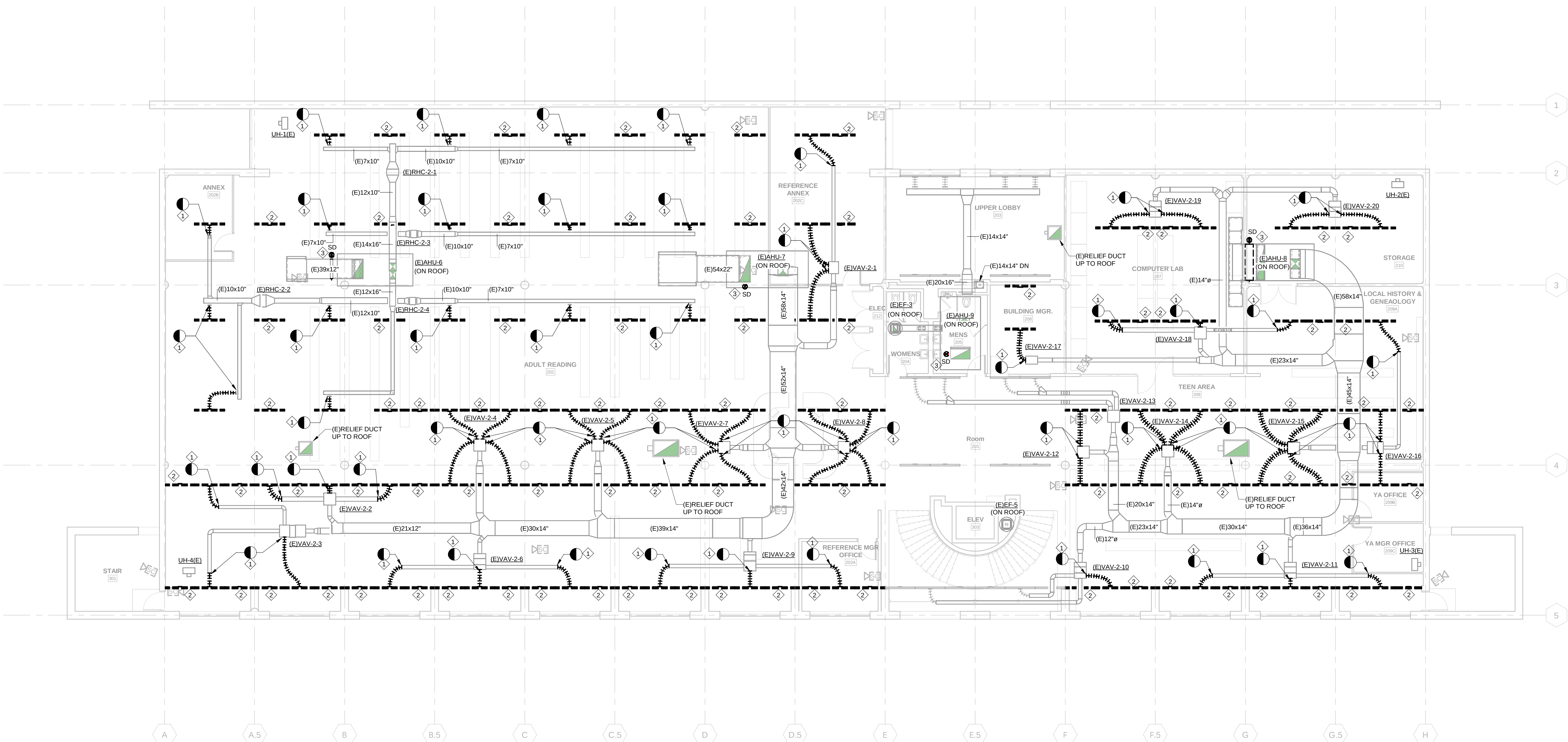
DRAWING NAME

**MECHANICAL
DEMOLITION PLAN -
SECOND FLOOR**

DRAWING NO.

M102

Drawn By: DTL Checked By: DTL



1 MECHANICAL DEMOLITION PLAN - SECOND FLOOR

M102
1/8" = 1'-0"
0 8 16 24'



A. REBALANCE AIR DISTRIBUTION SYSTEM TO VALUES SHOWN ON PLANS.

1. CONNECT NEW DUCTWORK TO EXISTING TAKE-OFF. PROVIDE NEW BALANCING DAMPER AT TAKE-OFF. BRANCH DUCTWORK SIZE TO MATCH NECK SIZE OF AIR TERMINAL BEING SERVED.
2. PROVIDE NEW PLENUM RETURN GRILLE WITH SOUND ATTENUATION. SEE DETAIL 4/M001. TYPICAL OF ALL.
3. PROVIDE NEW RETURN GRILLE WITH 1" THICK INTERNALLY LINED DUCTWORK FOR SOUND ATTENUATION. COORDINATE TO EXISTING INTERNALLY LINED TRANSFER DUCT.
4. EXISTING VAV CONTROL PANEL IN ELECTRICAL ROOM TO BE RELOCATED. EXTEND AND RECONNECT WIRING AS REQUIRED. COORDINATE FINAL LOCATION WITH ELECTRICAL PLANS.
5. INSTALL NEW DUCT DETECTOR IN SAME LOCATION EXISTING. SEAL ALL DUCT PENETRATIONS AIR TIGHT. COORDINATE INSTALLATION WITH FIRE ALARM CONTRACTOR.

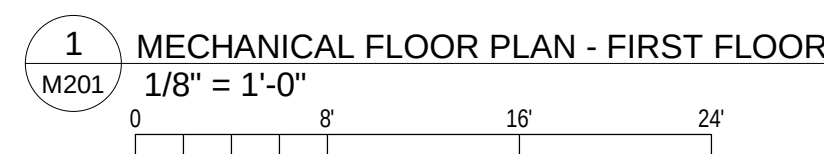
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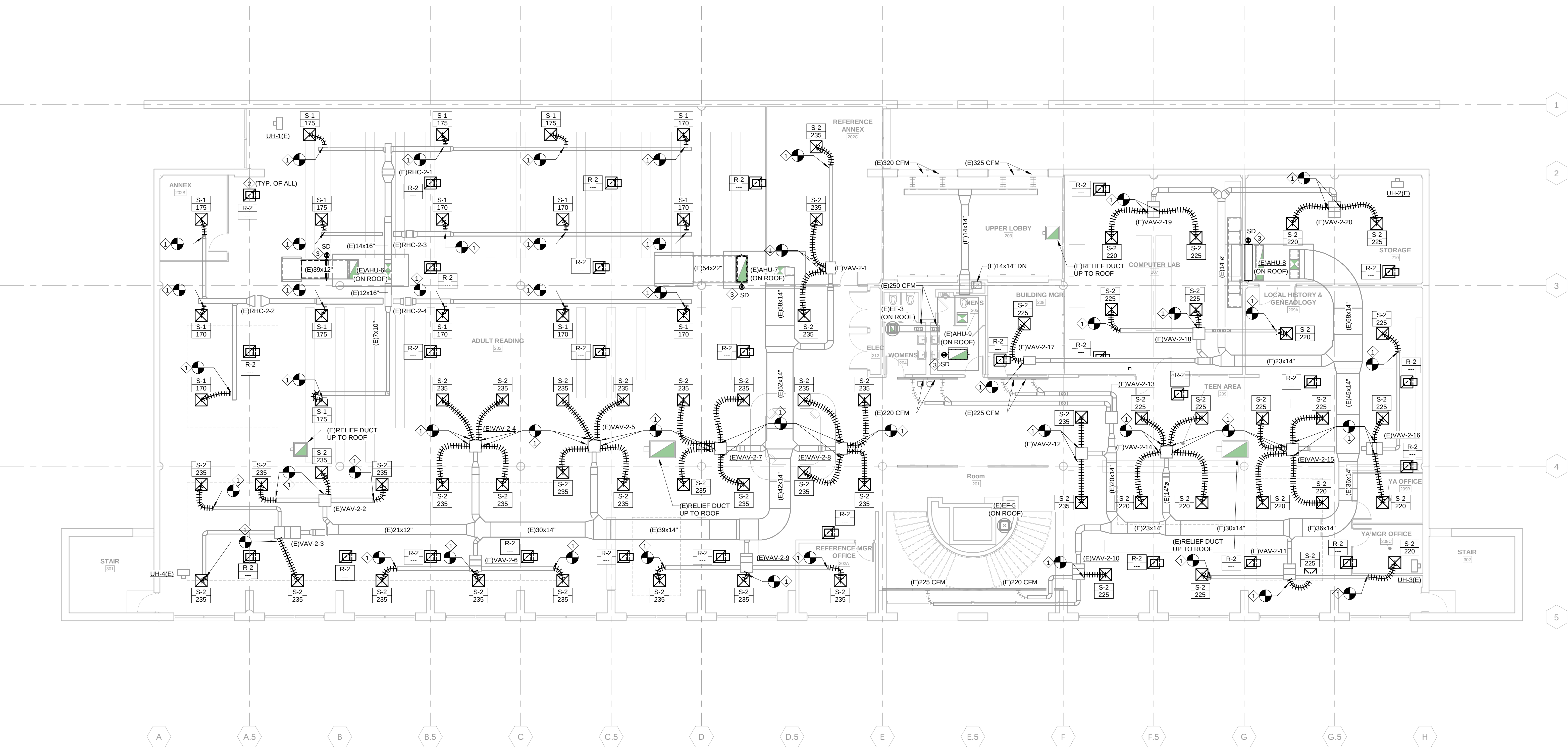
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DRAWING NAME

MECHANICAL FLOOR PLAN - FIRST FLOOR

DRAWING NO. M201

Drawn By: DTL Checked By: DTL



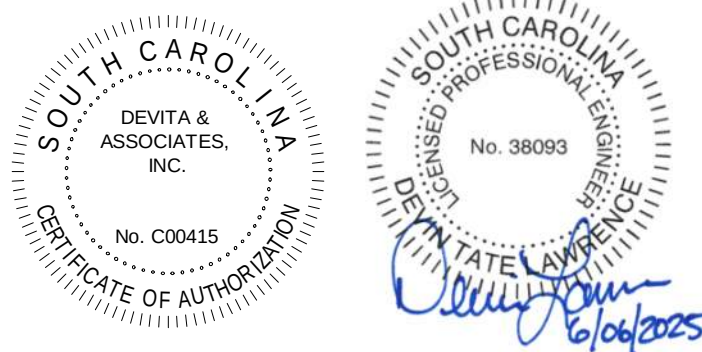
1 MECHANICAL FLOOR PLAN - SECOND FLOOR
M202
1/8" = 1'-0"
0 8 16 24'

GENERAL MECHANICAL NOTES:

- A. REBALANCE AIR DISTRIBUTION SYSTEM TO VALUES SHOWN ON PLANS.

MECHANICAL KEY NOTES:

1. CONNECT NEW DUCTWORK TO EXISTING TAKE-OFF. PROVIDE NEW BALANCING DAMPER AT TAKE-OFF. BRANCH DUCTWORK SIZE TO MATCH NECK SIZE OF AIR TERMINAL BEING SERVED.
2. PROVIDE NEW PLENUM RETURN GRILLE WITH SOUND ATTENUATION. SEE DETAIL 4-M001. TYPICAL OF ALL.
3. INSTALL NEW DUCT DETECTOR IN SAME LOCATION AS EXISTING. SEAL ALL DUCT PENETRATIONS AIR TIGHT. COORDINATE INSTALLATION WITH FIRE ALARM CONTRACTOR.



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DRAWING NAME

**MECHANICAL FLOOR
PLAN - SECOND
FLOOR**

DRAWING NO.

M202

Drawn By: DTL Checked By: DTL

WIRING DEVICE SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	HOMERUN TO LIGHTING/SERVICE PANEL. HOMERUN INDICATES PANEL NAME AND CIRCUIT NUMBER OR FEEDER TAG. CONDUCTORS SHALL BE #12 AWG IN 3/4" CONDUIT (1" UNDERGROUND) UNLESS NOTED OTHERWISE. HOMERUNS MAY BE COMBINED INTO A COMMON RACEWAY FOR 20A SINGLE PHASE CIRCUITS ONLY IF DEDICATED NEUTRALS ARE USED OR HANDLE TIES ARE PROVIDED ON CIRCUIT BREAKERS TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE SAME TIME. MAXIMUM OF (6) #12 AWG CURRENT CARRYING CONDUCTORS SHALL BE PROVIDED IN RACEWAY. COMPLY WITH NEC FOR CONDUCTOR DERATING AND CONDUIT FILL.
	CONDUIT STUB
	CONDUIT TURNED DOWN
	CONDUIT TURNED UP
	CONDUIT INSTALLED BELOW GRADE OR BELOW FINISHED FLOOR
	ELECTRICAL CONNECTION TO EQUIPMENT ITEM 'E101' (LETTER DESIGNATION AS APPLICABLE) - SEE CORRESPONDING EQUIPMENT CONNECTION SCHEDULE
	DUPLEX RECEPTACLE AT 18" AFF. UNO. NEMA 5-20R.
	QUADRUPLEX RECEPTACLE AT 18" AFF. UNO. NEMA 5-20R.
	DUPLEX RECEPTACLE - CEILING MOUNTED. NEMA 5-20R.
	DUPLEX RECEPTACLE - FLOOR MOUNTED. NEMA 5-20R.
	SINGLE RECEPTACLE AT 18" AFF. UNO. NEMA 5-20R.
	FOR RECEPTACLES ABOVE, SUBSCRIPT DEFINITION AS FOLLOWS: GFI - GROUND FAULT DEVICE IG - ISOLATED GROUND USB - DEVICE WITH USB PORT WP - WEATHERPROOF CR - CORD REEL C - MOUNTED 8" ABOVE COUNTER
	SPECIAL PURPOSE RECEPTACLE - HEIGHT AND TYPE AS NOTED ON DRAWINGS
	SURFACE RACEWAY
	JUNCTION BOX - MOUNTING HEIGHT AND SIZE AS REQUIRED BY CODE OR AS NOTED ON DRAWINGS
	JUNCTION BOX - FLOOR MOUNTED. SIZE AS REQUIRED BY CODE OR AS NOTED ON DRAWINGS
	VERTICAL SERVICE POWER POLE
	COMBINATION IN FLOOR POWER / DATA / A/V DEVICE.
	PUSHBUTTON
	MOTOR. SEE DRAWINGS FOR DESCRIPTION
	SAFETY DISCONNECT SWITCH. '30' INDICATES AMP RATING. '3P' INDICATES NUMBER OF POLES. '20' INDICATES FUSE SIZE. '1' INDICATES NEMA ENCLOSURE RATING (1, 3R, 4X, ETC). HEAVY DUTY SAFETY SWITCH UNLESS NOTED OTHERWISE. 'NP' INDICATES NON-FUSED.
	COMBINATION MOTOR STARTER
	MOTOR STARTER
	DOOR BELL

FIRE ALARM SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	FIRE ALARM ANNUNCIATOR PANEL - WALL MOUNTED AT 60" AFF TO CENTER. UNO
	FIRE ALARM CONTROL UNIT; "D" SUBSCRIPT INDICATES DEDICATED UNIT
	FIRE ALARM TERMINAL CABINET - WALL MOUNTED AT 72" AFF TO TOP. UNO
	AREA OF REFUGE EMERGENCY COMMUNICATION SYSTEM MASTER UNIT
	AREA OF REFUGE EMERGENCY COMMUNICATION SYSTEM REMOTE UNIT
	REMOTE TEST STATION FOR FA DUCT DETECTOR
	NOTIFICATION CIRCUIT POWER BOOSTER, EXTENDER PANEL. "n" = UNIT NUMBER
	PRE-ACTION SYSTEM / CONTROL UNIT
	SMOKE DAMPER CONNECTION
	ELEVATOR SHUTDOWN CONNECTION
	ELEVATOR RECALL CONNECTION
	ELEVATOR FIREMAN'S HAT LIGHT CONNECTION
	ELEVATOR SHUNT TRIP VOLTAGE MONITOR CONNECTION
	ADDRESSABLE INPUT MONITOR MODULE
	ADDRESSABLE OUTPUT MONITOR MODULE
	ISOLATION MODULE
	CO DETECTOR
	HEAT DETECTOR. "XX" = TYPE/BASIC SHAPE
	WATER FLOW DETECTOR / SWITCH
	NON-ADDRESSABLE OUTPUT RELAY
	SURGE SUPPRESSOR
	VALVE SUPERVISORY SWITCH
	FIRE ALARM PULL STATION AT 44" AFF. UNO
	FIRE ALARM SMOKE DETECTOR / SENSOR
	RELAY BASE
	SMOKE ALARM. SINGLE STATION
	SMOKE DETECTOR / SENSOR FOR DUCT
	FIRE ALARM SYSTEM BELL - SINGLE STROKE
	GONG
	COMBINATION HORN / VISIBLE; cd = CANDELA RATING
	COMBINATION SPEAKER / VISIBLE; W = WATTAGE, cd = CANDELA RATING
	HORN ONLY
	CEILING MOUNT INDICATOR
	REMOTE ALARM INDICATING AND TEST SWITCH
	SPEAKER ONLY, WALL MOUNT; W = WATTAGE
	VISIBLE ONLY (STROBE), CEILING MOUNT; CD = CANDELA RATING
	VISIBLE ONLY (STROBE), WALL MOUNT; CD = CANDELA RATING
	DOOR HOLDER
SUBSCRIPT DEFINITIONS: C - CEILING MOUNTED WP - WEATHERPROOF WG - WIRE GUARD	

DISTRIBUTION SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	ELECTRICAL PANEL, SURFACE MOUNTED.
	ELECTRICAL PANEL, FLUSH MOUNTED.
	TRANSFORMER
	AUTOMATIC TRANSFER SWITCH

LIGHTING & CONTROL SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	20A SWITCH AT 44" CL AFF. UNO
	WALL DIMMER
	FOR SWITCH AND DIMMER ABOVE. SUBSCRIPT DEFINITION AS FOLLOWS: a-b - SWITCHING SCHEME m - MOTOR RATED p - PILOT LIGHT 3 - 3-WAY SWITCH 4 - 4-WAY SWITCH o - OCCUPANCY SENSOR v - VACANCY SENSOR
	LIGHTING CONTROL OCCUPANCY SENSOR - CEILING MOUNTED
	LIGHTING CONTROL PHOTOCELL
	DAYLIGHT SENSOR
	INTERIOR LIGHT FIXTURES AS SPECIFIED ON THE LIGHT FIXTURE SCHEDULE. REFER ALSO TO LIGHTING CIRCUITING GUIDE.
	LIGHT FIXTURE, HALF SHADING INDICATES EMERGENCY BACKUP. "NL" INDICATES 24/7 OPERATION (UNSWITCHED).
	EXTERIOR LIGHT FIXTURES AS SPECIFIED ON THE LIGHT FIXTURE SCHEDULE. REFER ALSO TO LIGHTING CIRCUITING GUIDE.
	EMERGENCY LIGHTING FIXTURE, WITH BATTERY. REFER TO LIGHT FIXTURE SCHEDULE.
	EXIT SIGN, WHERE USED, ARROW INDICATES CHEVRON DIRECTION.
	CEILING FAN
	LIGHTING FIXTURE AS SCHEDULED; NORMAL POWER BRANCH
	LIGHTING FIXTURE AS SCHEDULED; EMERGENCY INVERTER POWER BRANCH

TECHNOLOGY SYMBOL LEGEND	
UNLESS NOTED OTHERWISE ON DRAWINGS, FOR EACH DEVICE BELOW, PROVIDE 2-GANG JUNCTION BOX WITH 1-GANG MUDRING AND 1" CONDUIT WITH PULL CORD TO ABOVE NEAREST ACCESSIBLE CEILING IN CORRIDOR. PROVIDE NYLON BUSHING ON CONDUIT END.	
SYMBOL	DESCRIPTION
	VOICE / DATA ROUGH-IN BOX, AT 18" AFF UNO. "N" SUBSCRIPT DENOTES NUMBER OF DATA DROPS UNO.
	VOICE / DATA ROUGH-IN BOX, FLOOR-MOUNTED..
	TELEVISION OUTLET. SINGLE GANG BOX WITH SINGLE GANG PLASTER RING. PROVIDE WITH ADJACENT DUPLEX RECEPTACLE.
	SECURITY CAMERA. COORDINATE REQUIREMENTS WITH OWNER.
	SECURITY MOTION DETECTOR. COORDINATE REQUIREMENTS WITH OWNER.
	WIRELESS ACCESS POINT. CEILING MOUNTED UNLESS NOTED OTHERWISE ON PLAN. COORDINATE PROVISIONS AND REQUIREMENTS WITH OWNER.

LIGHTING CIRCUITING GUIDE	
SYMBOL	DESCRIPTION
	LIGHTING TYPE AND CIRCUIT DESIGNATION X: REFER TO PANEL SCHEDULE, PER DRAWING 1: CIRCUIT NUMBER B: LIGHT FIXTURE TYPE, REFER TO LIGHT FIXTURE SCHEDULE
	SWITCHING SCHEME OR ZONE

POWER CIRCUITING GUIDE	
SYMBOL	DESCRIPTION
	POWER CIRCUITING DESIGNATION X: REFER TO PANEL SCHEDULE, PER DRAWING 1: CIRCUIT NUMBER
	DEVICE, JUNCTION BOX, FLOOR BOX, ETC
	EQUIPMENT ABBREVIATION, REFER TO LEGEND AND ABBREVIATION SCHEDULE FOR ADDITIONAL INFORMATION

ABBREVIATIONS	
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ACH	ABOVE COUNTER HEIGHT
AL	ALUMINUM
BKR	BREAKER
CU	COPPER
CKT	CIRCUIT
DWG	DRAWING
EF	EMPTY CONDUIT
EF	EXHAUST FAN
EWC	ELECTRIC WATER COOLER
ETR	EXISTING TO REMAIN
FLA	FULL LOAD AMPS
FU	FUSE
FWE	FURNISHED WITH EQUIPMENT
GC	GENERAL CONTRACTOR
GFIC/GFI	GROUND FAULT INTERRUPTER DEVICE
HPS	HIGH PRESSURE SODIUM
IG	ISOLATED GROUND
LRA	LOCKED ROTOR AMPS
LTC	LIGHTING(L)
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MH	METAL HALIDE
MLO	MAIN LUG ONLY
MOC	MAXIMUM OVERCURRENT CIRCUIT PROTECTION
MSB	MAIN SWITCHBOARD
NL	NIGHT LIGHT
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PH	PHASE
PNL	PANEL
RCPT	RECEPTACLE
REQD	REQUIRED
RTU	ROOFTOP UNIT
SP	SURGE PROTECTED DEVICE
SW	SWITCH
UGND	UNDERGROUND
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
W	WITH
WH	WATER HEATER
WP	WEATHER PROOF
XFMR	TRANSFORMER

ELECTRICAL GENERAL NOTES:

- CONTRACTOR IS RESPONSIBLE TO REVIEW AND UNDERSTAND ALL DRAWINGS AND ALL WORK OF ALL TRADES TO ENSURE A COMPLETE AND THOROUGH PROJECT. CONTRACTOR SHALL COOPERATE AND COORDINATE ALL PHASES OF WORK WITH OTHER DISCIPLINES AND GENERAL CONTRACTOR.
- VISIT THE SITE AND THOROUGHLY FAMILIARIZE WITH EXISTING CONDITIONS, VERIFY LOCATIONS, CONDUIT ROUTINGS, COORDINATE WITH EXISTING EQUIPMENT, ETC. BEFORE SUBMITTING A BID. ANY DISCREPANCIES SHALL BE REPORTED BEFORE THE BID DATE.
- FIELD DETERMINE THE EXACT EXISTING CONDITIONS AND EXTENT OF ELECTRICAL WORK REQUIRED TO COMPLETE THE PROJECT, INCLUDING ALL EQUIPMENT RATINGS AND FEEDER SIZES. EXISTING CONDITIONS INDICATED ON THESE DRAWINGS ARE TAKEN FROM EXISTING BUILDING DOCUMENTS AND/OR FIELD OBSERVATION. OTHER ELECTRICAL ITEMS MAY EXIST FOR WHICH THE ELECTRICAL CONTRACTOR IS RESPONSIBLE THAT MAY NOT BE SPECIFICALLY ADDRESSED IN THESE DRAWINGS.
- VERIFY ALL DIMENSIONS AND CLEARANCES PRIOR TO INSTALLATION OF EQUIPMENT AND RACEWAYS.
- ALL WORK SHALL BE EXECUTED IN ACCORDANCE WITH RECOGNIZED STANDARDS OF WORKMANSHIP. ALL WORK SHALL BE INSTALLED IN A NEAT AND ORDERLY MANNER.
- ALL ELECTRICAL CONSTRUCTION SHALL CONFORM TO THE NEC 2020, APPLICABLE NEMA, ANSI AND IEEE PUBLICATIONS, U.L. STANDARDS, AND OSHA REQUIREMENTS. WORK SHALL COMPLY WITH LOCAL, COUNTY, STATE, AND NATIONAL CODES HAVING JURISDICTION.
- CONDUIT PENETRATIONS OF ROOF, WALLS, FLOORS, AND CEILINGS SHALL BE SEALED TO PRESERVE THE INTEGRITY OF WATERPROOFING. FIRE RATING, AND SOUNDPROOFING FOR WHICH THE ROOF, WALL, FLOOR, OR CEILING IS DESIGNED. MATERIALS AND METHODS USED SHALL CONFORM TO THAT SPECIFIED UNDER ARCHITECTURAL SECTIONS AND SHALL COMPLY WITH STATE AND LOCAL BUILDING AND FIRE CODES. COORDINATE WITH GENERAL CONTRACTOR TO ENSURE THAT SEALING/FIRESTOPPING IS DONE.
- ALL WORK SHALL HAVE PROPER LABELING. ALL CIRCUITS SHALL BE LABELED AT PANELS AND ON RECEPTACLE DEVICE OUTLET PLATES. ALL PANELS AND DISCONNECTS SHALL BE PERMANENTLY MARKED WITH NAME OR EQUIPMENT SERVED. ALL PANELS SHALL BE PROVIDED WITH TYPEWRITTEN PANEL SCHEDULES.
- ALL EQUIPMENT, FIXTURES, DEVICES, AND MATERIALS SHALL BE FREE OF CORROSION, DIRT, PAINT, SPLATTER OR DAMAGE OF ANY SORT AT FINAL ACCEPTANCE OF THE WORK. ELECTRICAL CONTRACTOR SHALL CLEAN, REPAIR OR REPLACE SAME AS INSTRUCTED BY OWNER BEFORE FINAL PAYMENT.

TYPICAL NAMEPLATE EXAMPLES FOR EACH EQUIPMENT TYPE

Panelboard RP1A 208Y120V 3Ø 4W Fed From Panel RDP	Mech Equipment Disconnects & VFD's AHU-1 480V 3Ø M1-____	Transformers T-RDP 480V, 208Y120V FED FROM MDP FEEDS RDP
---	--	--

1 EQUIPMENT IDENTIFICATION NAMEPLATE DETAIL NOT TO SCALE

SELF-ADHESIVE LABEL WITH PANEL & CIRCUIT NUMBER, BLACK TEXT ON CLEAR LABEL (TYP) RP1A-1 MAIN LIGHTS OFF	FOR MULTIPLE LIGHTING CONTROLS IN SAME ROOM, PROVIDE LABEL INDICATING LIGHTS SERVED BY THIS CONTROL NOTES A. PROVIDE LABEL FOR ALL WIRING DEVICES, INCLUDING BUT NOT LIMITED TO: • RECEPTACLES • LIGHT SWITCHES • WALL DIMMERS • WALL OCCUPANCY SENSORS • FAN SPEED CONTROLS • EMERGENCY STOP BUTTONS (SHUNT-TRIP CIRCUIT) • MANUAL MOTOR STARTERS • REMOTE CONTROL SWITCHES • CONTROL DEVICES B. LABEL MATERIAL: • STANDARD WALL PLATES: EMBOSSSED ADHESIVE TAPE, WITH 1/8-INCH BLACK-FILLED LETTERS ON CLEAR BACKGROUND. C. PROVIDE DURABLE WIRE MARKERS OR TAGS INSIDE DEVICE BOX OR OUTLET BOX. D. FOR MULTIPLE LIGHTING CONTROLS IN SAME ROOM, ALSO PROVIDE LABEL INDICATING LIGHTS SERVED BY EACH CONTROL. E. FOR MANUAL MOTOR STARTERS AND SWITCHES USED TO CONTROL MOTORS OR EQUIPMENT OTHER THAN LIGHTS, ALSO PROVIDE LABEL INDICATING EQUIPMENT SERVED BY THE CONTROL. F. WHEN LABELING OUTDOOR DEVICES, LABEL SHALL BE INSTALLED ON THE FACEPLATE INSIDE THE WEATHERPROOF DEVICE COVER, NOT ON THE OUTSIDE OF THE COVER.
TYPICAL RECEPTACLE FACEPLATE	TYPICAL LIGHTING CONTROL (SWITCH, DIMMER, OCCUPANCY SENSOR) FACEPLATE

2 WIRING DEVICE LABELING DETAIL NOT TO SCALE

FIRE ALARM GENERAL NOTES:

- FIRE ALARM INSTALLATION SHALL COMPLY WITH NFPA 72, NFPA 101, NATIONAL ELECTRICAL CODE (NFPA 70) WITH SPECIFIC ATTENTION TO ARTICLE 760, STATE FIRE CODE, AND ALL OTHER APPLICABLE CODES, STANDARDS, AND ORDINANCES.
- FIRE ALARM WIRING AND PATHWAY SHALL BE PER SPECIFICATIONS AND COMPLY WITH NFPA 72 AND NEC.
- ALL VISUAL NOTIFICATION DEVICES (STROBES) IN ONE VIEWING, NEW AND EXISTING, SHALL BE SYNCHRONIZED TO FLASH IN UNISON AS REQUIRED BY NFPA 72, ADA, ANSI 117.1, AND UL 1971.
- PROVIDE ALL REQUIRED TESTING OF THE FIRE ALARM SYSTEM IN ACCORDANCE WITH THE "INSPECTION, TESTING, AND MAINTENANCE" CHAPTER OF NFPA 72 (WITH SPECIFIC ATTENTION TO 14.4.2) AND MANUFACTURER'S WRITTEN INSTRUCTIONS. FIELD TESTS SHALL BE WITNESSED BY THE AUTHORITY HAVING JURISDICTION. CONDUCT VISUAL INSPECTION AND SYSTEM TESTING IN THE "TEST METHODS" TABLE IN THE "TESTING" SECTION OF NFPA 72. PREPARE A "FIRE ALARM SYSTEM RECORD OF COMPLETION" PER NFPA 72 AND PROVIDE TO OWNER AND AHJ PRIOR TO FINAL ACCEPTANCE OF THE PROJECT. FIRE ALARM SYSTEM WILL BE CONSIDERED DEFECTIVE IF IT DOES NOT PASS TESTS AND INSPECTIONS.
- FOR FIRE ALARM DEVICES THAT ARE REMOVED, RECESSED, EMPTY BACK BOX AND CONDUIT MAY BE ABANDONED IN WALL, UNLESS NOTED OTHERWISE.
- COMPLY WITH SC FIRE PREVENTION CODE REQUIREMENTS FOR TAKING REQUIRED FIRE ALARM SYSTEM OUT OF SERVICE WHILE BUILDING IS OCCUPIED BY NOTIFYING THE AUTHORITY HAVING JURISDICTION AND EVACUATING THE BUILDING OR PROVIDING AN APPROVED FIRE MAX CONDUIT UNTIL THE FIRE ALARM SYSTEM IS RETURNED TO SERVICE.
- DO NOT SPICE OR T" TAP FIRE ALARM WIRING. MAKE CONNECTIONS ONLY AT DEVICES OR IN TERMINAL CABINETS.

DEMOLITION/RENOVATION NOTES:

- REFER TO ARCHITECTURAL AND MECHANICAL DEMOLITION DRAWINGS AND SPECIFICATIONS FOR COORDINATION AND ADDITIONAL REQUIRED WORK.
- IN SPACES THAT ARE BEING RENOVATED WHERE THE CEILING AND/OR WALLS ARE BEING DEMOLISHED, THE LIGHTING FIXTURES, DEVICES, ETC. SHALL BE REMOVED UNLESS NOTED OTHERWISE. ABANDONED DEVICES SHALL BE REMOVED WITH THE OUTLET BOX.
- FOR ITEMS TO BE DEMOLISHED, REMOVE WIRING/CONDUIT BACK TO THE LAST ACTIVE DEVICE OR SOURCE PANELBOARD. MAINTAIN CIRCUIT CONTINUITY TO REMAINING ITEMS ON CIRCUITS REQUIRED TO REMAIN. RELOCATE ANY CIRCUITS TO REMAIN TO AVOID CONFLICT WITH NEW CONSTRUCTION AS REQUIRED. PROPERLY TERMINATE ALL WIRING.
- PATCH AND REPAIR ALL SURFACES CONTAINING DEMOLITION. COORDINATE WITH ARCHITECTURAL DRAWINGS. MATERIALS AND FINISHES SHALL MATCH ADJACENT SURFACES.
- ANY EXISTING ELECTRICAL DEVICES LEFT WITHOUT POWER DUE TO THIS RENOVATION SHALL BE RECONNECTED TO SAME SIZE CIRCUIT(S) AS PRESENTLY SERVED. NO ELECTRICAL DEVICES SHALL BE LEFT WITHOUT POWER.
- IF OTHER AREAS OF THE FACILITY ARE SERVED THROUGH THE REMODELED AREA, THEIR CIRCUITS SHALL BE REWORKED AT A TIME COORDINATED WITH THE OWNER TO MINIMIZE ANY AREA BEING WITHOUT POWER. ALL AREAS OF THE FACILITY SHALL MAINTAIN THEIR EXISTING ELECTRICAL SERVICES, REWORKED IF NECESSARY.
- EXISTING CONDUIT IN THE RENOVATED AREA SHALL BE REUSED IF IT CAN BE LEFT IN PLACE OR IS IN GOOD CONDITION WHEN REMOVED. EXISTING CONDUIT NOT INTENDED TO BE REUSED SHALL BE REMOVED IN CEILING SPACES AND WALLS. EXISTING CONDUIT BELOW FLOOR SLABS MAY BE ABANDONED IN PLACE. REMOVE ALL WIRING, CUT OFF ABANDONED CONDUIT BELOW FLOOR, AND GROUT FLUSH.
- CONDUCTORS IN RENOVATED AREA SHALL BE NEW. DO NOT REUSE EXISTING WIRING UNLESS NOTED OTHERWISE. PROPERLY DISPOSE OF ALL ITEMS BEING REMOVED AS PART OF THIS PROJECT. THE OWNER SHALL HAVE THE RIGHT TO RETAIN ANY ELECTRICAL ITEMS REMOVED FROM THE REMODELED AREA AND NOT INDICATED TO BE REUSED. IF THE OWNER DOES NOT WANT THE ITEMS, CONTRACTOR SHALL REMOVE ITEMS FROM THE SITE. COORDINATE ITEMS TO BE RETAINED WITH THE OWNER.
- WHERE CIRCUIT BREAKERS ARE ADDED TO EXISTING PANELS, THEY SHALL MATCH EXISTING BREAKERS TYPE, MANUFACTURER, AND AIC RATING. UPDATE DIRECTORIES IN EXISTING PANELS TO REFLECT CHANGES BY THIS RENOVATION. DIRECTORIES SHALL BE TYPEWRITTEN.



PROJECT INFORMATION:

YORK COUNTY MAIN PUBLIC LIBRARY ELECTRICAL UPGRADES

138 E BLACK STREET
ROCK HILL, SC 29730

REVISIONS			
NO.	DATE	DESCRIPTION	
A	26 NOV 2024	ISSUE FOR PERMIT	
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DRAWING NAME

ELECTRICAL LEGEND AND NOTES

DRAWING NO.

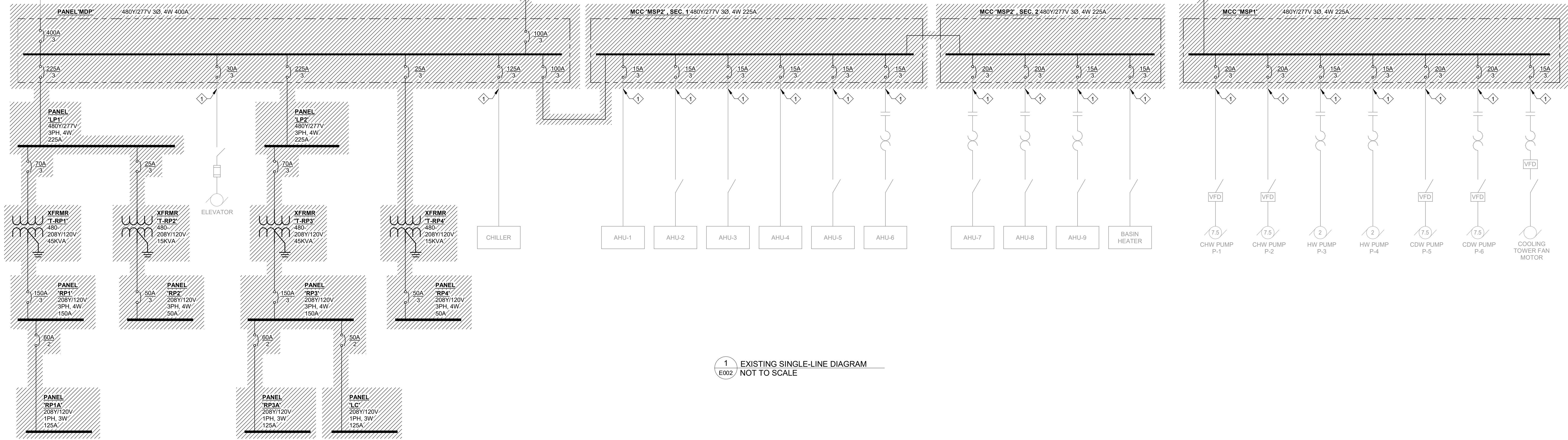
E001

Drawn By: RHV Checked By: SLE

ELECTRICAL SHEET LIST	
SHEET NUMBER	SHEET NAME
E001	ELECTRICAL LEGEND AND NOTES
E002	ELECTRICAL SINGLE-LINE DIAGRAMS
E003	FIRE ALARM RISER AND DETAILS
E101	ELECTRICAL DEMOLITION PLAN - FIRST FLOOR
E102	ELECTRICAL DEMOLITION PLAN - SECOND FLOOR
E111	ELECTRICAL CEILING DEMOLITION PLAN - FIRST FLOOR
E112	ELECTRICAL CEILING DEMOLITION PLAN - SECOND FLOOR
E201	ELECTRICAL POWER PLAN - FIRST FLOOR
E202	ELECTRICAL POWER PLAN - SECOND FLOOR
E301	ELECTRICAL LIGHTING PLAN - FIRST FLOOR
E302	ELECTRICAL LIGHTING PLAN - SECOND FLOOR
E401	ELECTRICAL SYSTEMS PLAN - FIRST FLOOR
E402	ELECTRICAL SYSTEMS PLAN - SECOND FLOOR
E501	ENLARGED ELECTRICAL MEZZANINE PLANS
E800	ELECTRICAL DETAILS
E801	ELECTRICAL DETAILS
E900	ELECTRICAL SCHEDULES
E901	ELECTRICAL PANEL SCHEDULES
E902	ELECTRICAL PANEL SCHEDULES
E903	ELECTRICAL PANEL SCHEDULES
E904	ELECTRICAL PANEL SCHEDULES

PAD-MOUNTED
UTILITY XFMR
300KVA
480Y/277V
3PH, 4W
SECONDARY

EXISTING 4-500KCM; 3-1/2" C



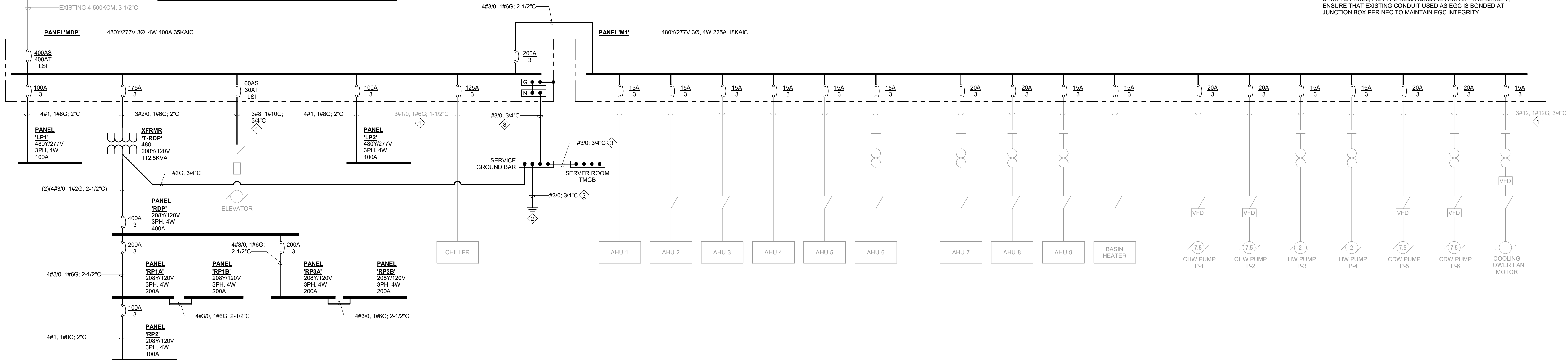
1 EXISTING SINGLE-LINE DIAGRAM
E002 NOT TO SCALE

SERVICE LOAD SUMMARY

EXISTING SERVICE: 480Y/277V, 3-PH, 4-WIRE, 400A	
EXISTING PEAK DEMAND LOAD OVER PREVIOUS 24-MONTHS	99 KW
ASSUME: 0.85 POWER FACTOR	117 KVA
EXISTING DEMAND LOAD AT 125% PER NEC	146 KVA
NET LOAD REDUCED	40 KVA
RESULTANT SERVICE DEMAND LOAD	106 KVA (128 A)

PAD-MOUNTED
UTILITY XFMR
300KVA
480Y/277V
3PH, 4W
SECONDARY

EXISTING 4-500KCM; 3-1/2" C



2 PROPOSED SINGLE-LINE DIAGRAM
E002 NOT TO SCALE

GENERAL NOTES:

- ALL EXISTING EQUIPMENT TO BE REPLACED. ALL ACTIVE CIRCUITS IN THE EXISTING PANELS SHALL BE RELOCATED TO NEW REPLACEMENT PANELS. SEE PANEL SCHEDULES FOR MORE INFORMATION.
- EXISTING IT SERVERS MUST BE KEPT OPERATIONAL DURING CONSTRUCTION. PROVIDE TEMPORARY GENERATOR AS REQUIRED. APPROXIMATELY 5 KW. SEE SHEET E101 AND E201 FOR ADDITIONAL INFORMATION.

KEY NOTES:

- REWORK EXISTING BRANCH CIRCUIT CONDUIT AND WIRING AS REQUIRED FOR RECONNECTION OF EXISTING LOAD TO NEW SOURCE PANEL.
- PROVIDE GROUNDING ELECTRODE SYSTEM PER NEC 250.50. REFER TO DETAIL ON SHEET E801. SERVICE NEUTRAL SHALL BE GROUNDED AT ONE LOCATION ONLY.
- PROVIDE CONDUIT AS INDICATED FOR ALL GROUNDING ELECTRODE CONDUCTORS ABOVE GRADE.



SEALS

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DEVITA Project No. 23501-03

PROJECT INFORMATION:

YORK COUNTY MAIN PUBLIC LIBRARY ELECTRICAL UPGRADES

138 E BLACK STREET
ROCK HILL, SC 29730

TRACING & LABELING SCOPE

- THE INTENT OF THIS PROJECT IS TO RECONFIGURE THE EXISTING ELECTRICAL DISTRIBUTION. EXISTING BRANCH CIRCUIT HOMERUNS WILL BE RELOCATED TO THE PROPER SOURCE BASED ON THEIR DESCRIPTIONS AND THE CIRCUIT TRACING SCOPE NOTED BELOW.
- EXISTING CIRCUIT DESCRIPTIONS SHOWN IN THE PANEL SCHEDULES ARE TAKEN FROM THE EXISTING CURRENT PHYSICAL PANEL DIRECTORIES. MANY OF THESE DIRECTORIES CONTAIN OUTDATED AND/OR AMBIGUOUS DESCRIPTIONS, OR ARE OTHERWISE KNOWN TO BE INACCURATE. PRIOR TO CIRCUIT RELOCATION WORK, TRACE ALL CIRCUITS IN EACH AFFECTED EXISTING PANEL AND PROVIDE UPDATED DIRECTORY WITH APPROPRIATE SPECIFIC LOAD DESCRIPTION CLEARLY DISTINGUISHING EACH CIRCUIT FROM ALL OTHERS PER NEC 408.4. FOR CIRCUITS TO BE RELOCATED, DO THIS WORK IN ORDER TO REFLECT PROPER CIRCUIT DESCRIPTIONS IN NEW PANEL.
- TRACE EACH CIRCUIT TO LOAD AND REPLACE ANY EXISTING CIRCUIT LABELS, INCLUDING LABELS AT BREAKERS, ALL JUNCTION BOXES, DISCONNECTS/STARTERS, AND AT THE LOAD ITSELF, WITH NEW LABELING INDICATING THE NEW CIRCUIT.
- LABEL ALL DISCONNECTS, WIRING DEVICES, LIGHTING CONTROLS, LV SYSTEM PANELS, AND OTHER EQUIPMENT FED BY AC POWER WITH PANEL/CIRCUIT. LABEL ITEMS WHETHER SHOWN OR NOT ON THESE PLANS. FIELD DETERMINE ALL EXISTING ITEMS TO BE LABELED.
- FOR EXISTING CIRCUITS WITHOUT AN EQUIPMENT GROUNDING CONDUCTOR (EGC), MAKE GROUND CONNECTION AT CIRCUIT INTERCEPT POINT AND PROVIDE EGC IN CIRCUIT EXTENSION WIRING BACK TO PANEL. FOR THE REMAINING PORTION OF THE CIRCUIT, ENSURE THAT EXISTING CONDUIT USED AS EGC IS BONDED AT JUNCTION BOX PER NEC TO MAINTAIN EGC INTEGRITY.

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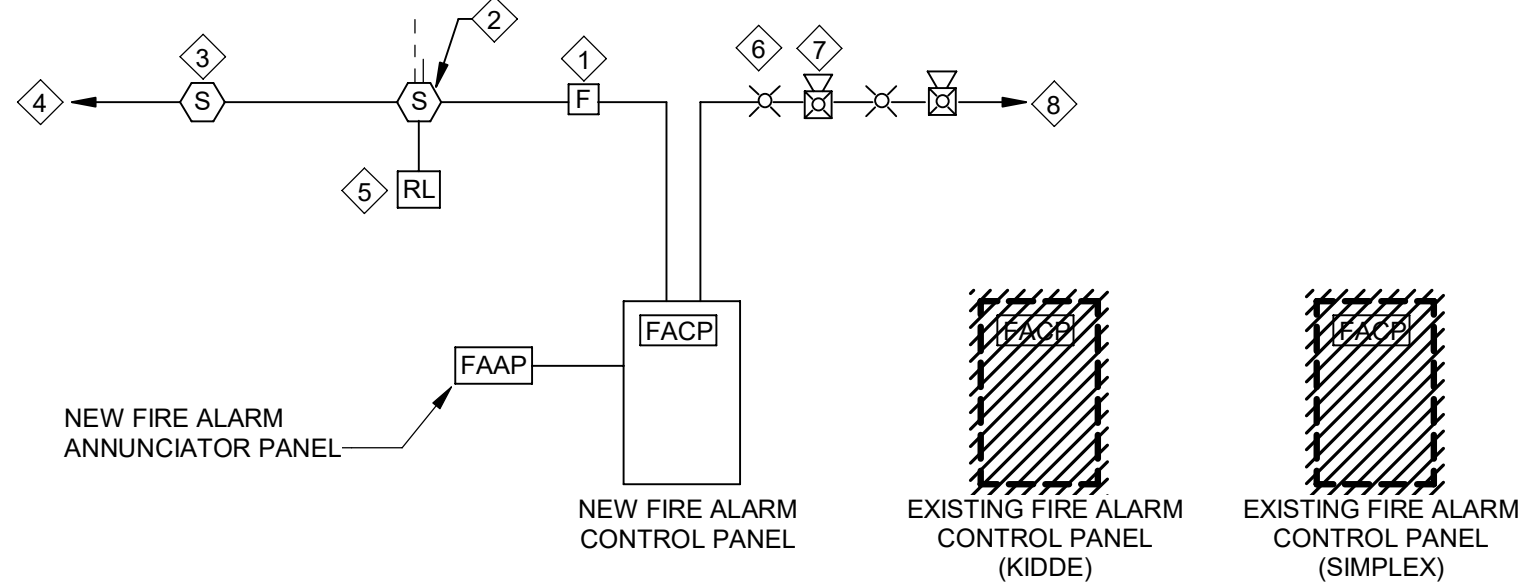
DRAWING NAME

ELECTRICAL SINGLE-LINE DIAGRAMS

DRAWING NO.

E002

Drawn By: RHV Checked By: SLE



FIRE ALARM SYSTEM NOTES:

- THIS RISER REPRESENTS A TYPICAL SYSTEM AND IS NOT INTENDED FOR INSTALLATION. SYSTEM SUPPLIER SHALL PROVIDE INSTALLATION DRAWINGS AND WIRING DIAGRAMS. EXACT SYSTEM REQUIREMENTS SHALL BE COORDINATED WITH THE SYSTEM SUPPLIER.
- THIS DIAGRAM IS NOT INTENDED TO SHOW EXACT QUANTITIES OF DEVICES, AND NOT ALL DEVICE TYPES SHOWN IN THIS DIAGRAM MAY BE USED ON THIS PARTICULAR PROJECT. REFER TO PLAN FOR EXACT DEVICE QUANTITY AND TYPES.
- REMOVE EXISTING FIRE ALARM DEVICES PER PLANS. PROVIDE NEW FIRE ALARM DEVICES AS REQUIRED TO MEET NEW RENOVATED AREA PLAN.

1 FIRE ALARM RISER DIAGRAM
E003 NOT TO SCALE

FIRE ALARM RISER DIAGRAM NOTES: (#

- MANUAL PULL STATION.
- DUCT SMOKE DETECTOR. PROVIDE REMOTE TEST STATION FOR EACH.
- PHOTOELECTRIC SMOKE DETECTOR.
- COMMUNICATIONS WIRING LOOP. PATHWAY CLASS PER SPECIFICATIONS.
- HVAC SHUT DOWN RELAY.
- STROBE UNIT. TYPICAL. MOUNTED AT 80" AFF TO MEET ADA REQUIREMENTS.
- COMBINATION HORN/STROBE UNIT. TYPICAL. MOUNTED AT 80" AFF TO MEET ADA REQUIREMENTS.
- TO ADDITIONAL HORN/STROBE UNITS NOT INDICATED.

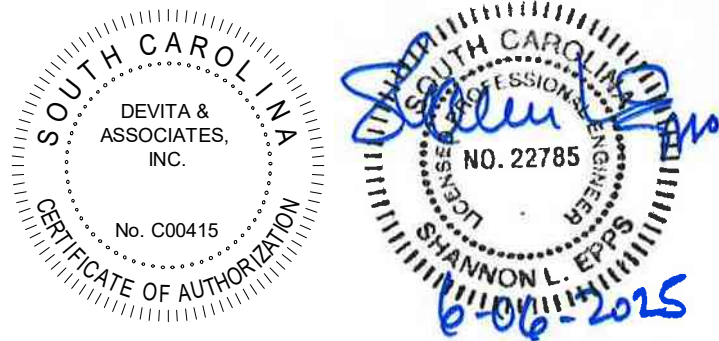
PARTIAL FIRE ALARM SYSTEM MATRIX																											
ACTION		BUILDING SYSTEM OUTPUTS																			CENTRAL COMM						

SEQUENCE OF OPERATION:

- A. ALARM DETECTION: WHEN A FIRE ALARM CONDITION IS DETECTED BY ONE OF THE SYSTEM INITIATING DEVICES, THE FOLLOWING FUNCTIONS SHALL IMMEDIATELY OCCUR:
- SYSTEM ALARM INDICATOR SHALL FLASH CONTINUOUSLY.
 - A LOCAL SOUNDING DEVICE IN THE PANEL SHALL BE ACTIVATED.
 - CONTROL PANEL DISPLAY SHALL INDICATE ALL PERTINENT INFORMATION ASSOCIATED WITH THE ALARM AND ITS LOCATION IN THE ALARM MESSAGE QUEUE.
 - APPROPRIATE STATUS CHANGE MESSAGE SHALL BE DISPLAYED ON ALL PRINTERS SO PROGRAMMED.
 - ALL AUTOMATIC PROGRAMS ASSIGNED TO THE ALARM POINT SHALL BE EXECUTED AND THE ASSOCIATED NOTIFICATION APPLIANCE CIRCUITS AND CONTROL RELAYS ADDRESSED AND ACTIVATED.
- B. SUPERVISORY SIGNAL: WHEN A SUPERVISORY CONDITION IS DETECTED BY ONE OF THE SYSTEM INITIATING DEVICES, THE FOLLOWING FUNCTIONS SHALL IMMEDIATELY OCCUR:
- SYSTEM SUPERVISORY INDICATOR SHALL FLASH.
 - A LOCAL SOUNDING DEVICE IN THE PANEL SHALL SOUND.
 - CONTROL PANEL SHALL INDICATE ALL PERTINENT INFORMATION ASSOCIATED WITH THE SUPERVISORY CONDITION AND ITS LOCATION.
 - UNACKNOWLEDGED ALARM MESSAGES SHALL HAVE PRIORITY OVER SUPERVISORY MESSAGES, AND IF SUCH AN ALARM MUST ALSO BE DISPLAYED, THE SUPERVISORY MESSAGE WILL NOT BE DISPLAYED UNTIL THE OPERATOR HAS ACKNOWLEDGED ALL ALARM MESSAGES.
 - UNACKNOWLEDGED SUPERVISORY MESSAGES SHALL HAVE PRIORITY OVER TROUBLE MESSAGES, AND IF SUCH A SUPERVISORY MUST ALSO BE DISPLAYED, THE TROUBLE MESSAGE WILL NOT BE DISPLAYED UNTIL THE OPERATOR HAS ACKNOWLEDGED ALL SUPERVISORY MESSAGES.
- C. TROUBLE DETECTION: WHEN A TROUBLE CONDITION IS DETECTED BY ONE OF THE SYSTEM INITIATING DEVICES, THE FOLLOWING FUNCTIONS SHALL IMMEDIATELY OCCUR:
- SYSTEM TROUBLE INDICATOR SHALL FLASH.
 - A LOCAL SOUNDING DEVICE IN THE PANEL SHALL SOUND.
 - CONTROL PANEL SHALL INDICATE ALL PERTINENT INFORMATION ASSOCIATED WITH THE TROUBLE CONDITION AND ITS LOCATION.
 - UNACKNOWLEDGED ALARM AND SUPERVISORY MESSAGES SHALL HAVE PRIORITY OVER TROUBLE MESSAGES, AND IF SUCH AN ALARM AND SUPERVISORY MUST ALSO BE DISPLAYED, THE TROUBLE MESSAGE WILL NOT BE DISPLAYED UNTIL THE OPERATOR HAS ACKNOWLEDGED ALL ALARM AND SUPERVISORY MESSAGES.

SYSTEM DEVICES:

- A. DUCT-MOUNTED SMOKE DETECTORS ARE FURNISHED, WIRED, AND PROGRAMMED BY ELECTRICAL/FIRE ALARM CONTRACTOR AND INSTALLED IN DUCTWORK BY MECHANICAL CONTRACTOR. PROVIDE CONNECTION TO DUCT-MOUNTED SMOKE DETECTORS AFTER DEVICES ARE SECURED IN FINAL LOCATION.
- B. REFER TO SPECIFICATIONS FOR ALL ADDITIONAL SYSTEM REQUIREMENTS.



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DEVITA Project No. 23501-03

PROJECT INFORMATION:

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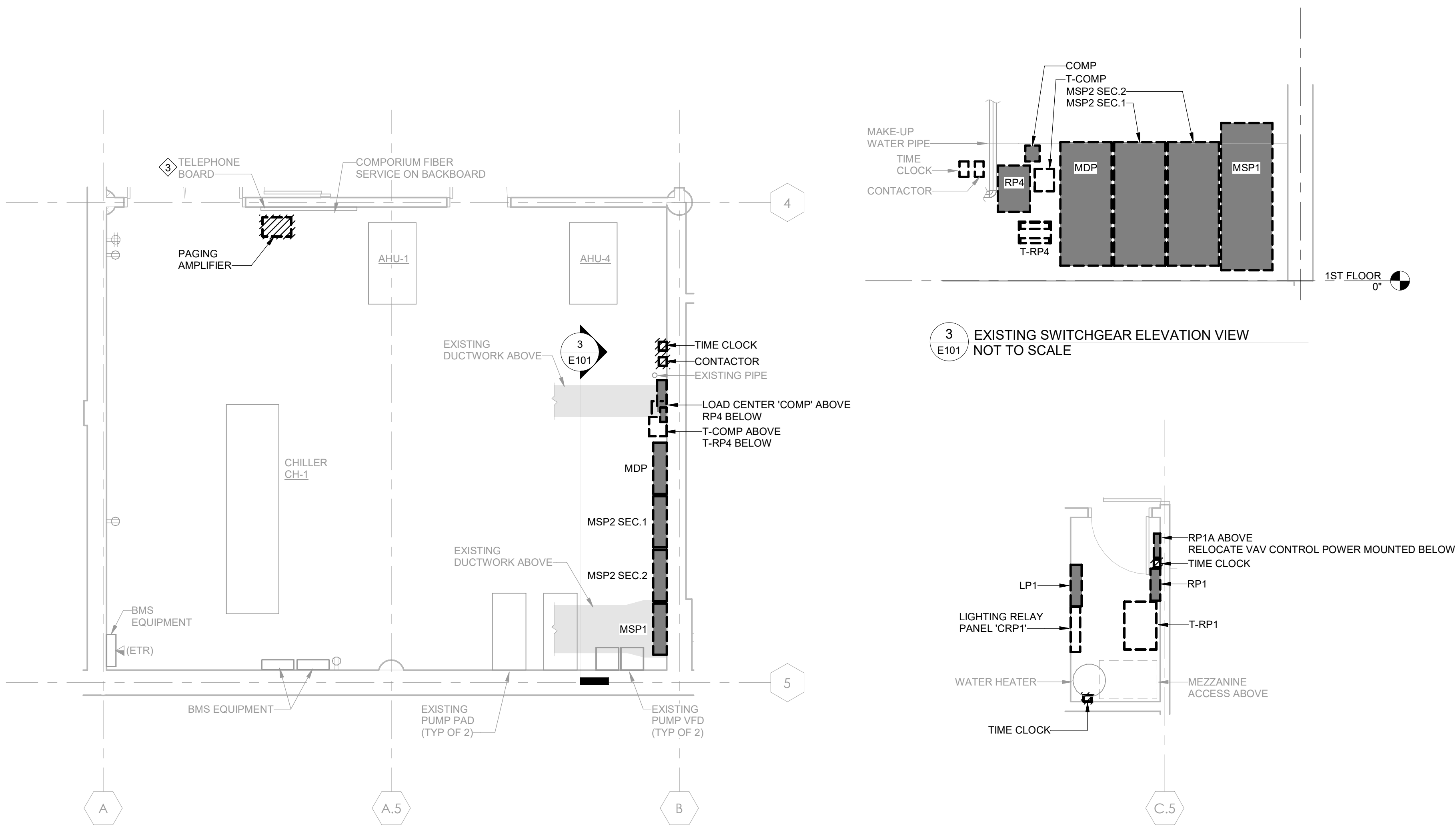
DRAWING NAME

FIRE ALARM RISER
AND DETAILS

DRAWING NO.

E003

Drawn By: RHV Checked By: SLE



2 ENLARGED ELECTRICAL DEMOLITION PLAN - MECHANICAL ROOM

1/4" = 1'-0"

4 ENLARGED ELECTRICAL DEMOLITION PLAN - ELECTRICAL ROOM 115

1/4" = 1'-0"

TRACING & LABELING SCOPE

- THE INTENT OF THIS PROJECT IS TO RECONFIGURE THE EXISTING ELECTRICAL DISTRIBUTION. EXISTING BRANCH CIRCUIT HOMERUNS WILL BE RELOCATED TO THE PROPER SOURCE BASED ON THEIR DESCRIPTIONS AND THE CIRCUIT TRACING SCOPE NOTED BELOW.
- EXISTING CIRCUIT DESCRIPTIONS SHOWN IN THE PANEL SCHEDULES ARE TAKEN FROM THE EXISTING CURRENT PHYSICAL PANEL DIRECTORIES. MANY OF THESE DIRECTORIES CONTAIN OUTDATED AND/OR AMBIGUOUS DESCRIPTIONS, OR ARE OTHERWISE KNOWN TO BE INACCURATE. PRIOR TO CIRCUIT RELOCATION WORK, TRACE ALL CIRCUITS IN EACH AFFECTED EXISTING PANEL AND PROVIDE UPDATED DIRECTORY WITH APPROPRIATE SPECIFIC LOAD DESCRIPTION CLEARLY DISTINGUISHING EACH CIRCUIT FROM ALL OTHERS PER NEC 408.4. FOR CIRCUITS TO BE RELOCATED, DO THIS WORK IN ORDER TO REFLECT PROPER CIRCUIT DESCRIPTIONS IN NEW PANEL.
- TRACE EACH CIRCUIT TO LOAD AND REPLACE ANY EXISTING CIRCUIT LABELS, INCLUDING LABELS AT BREAKERS, ALL JUNCTION BOXES, DISCONNECTS/STARTERS, AND AT THE LOAD ITSELF, WITH NEW LABELING INDICATING THE NEW CIRCUIT.
- LABEL ALL DISCONNECTS, WIRING DEVICES, LIGHTING CONTROLS, LV SYSTEM PANELS, AND OTHER EQUIPMENT FED BY AC POWER WITH PANEL/CIRCUIT. LABEL ITEMS WHETHER SHOWN OR NOT ON THESE PLANS. FIELD DETERMINE ALL EXISTING ITEMS TO BE LABELED.
- FOR EXISTING CIRCUITS WITHOUT AN EQUIPMENT GROUNDING CONDUCTOR (EGC), MAKE GROUND CONNECTION AT CIRCUIT INTERCEPT POINT AND PROVIDE EGC IN CIRCUIT EXTENSION WIRING BACK TO PANEL. FOR THE REMAINING PORTION OF THE CIRCUIT, ENSURE THAT EXISTING CONDUIT USED AS EGC IS BONDED AT JUNCTION BOX PER NEC TO MAINTAIN EGC INTEGRITY.

LOW-VOLTAGE SYSTEM DEMOLITION SCOPE:

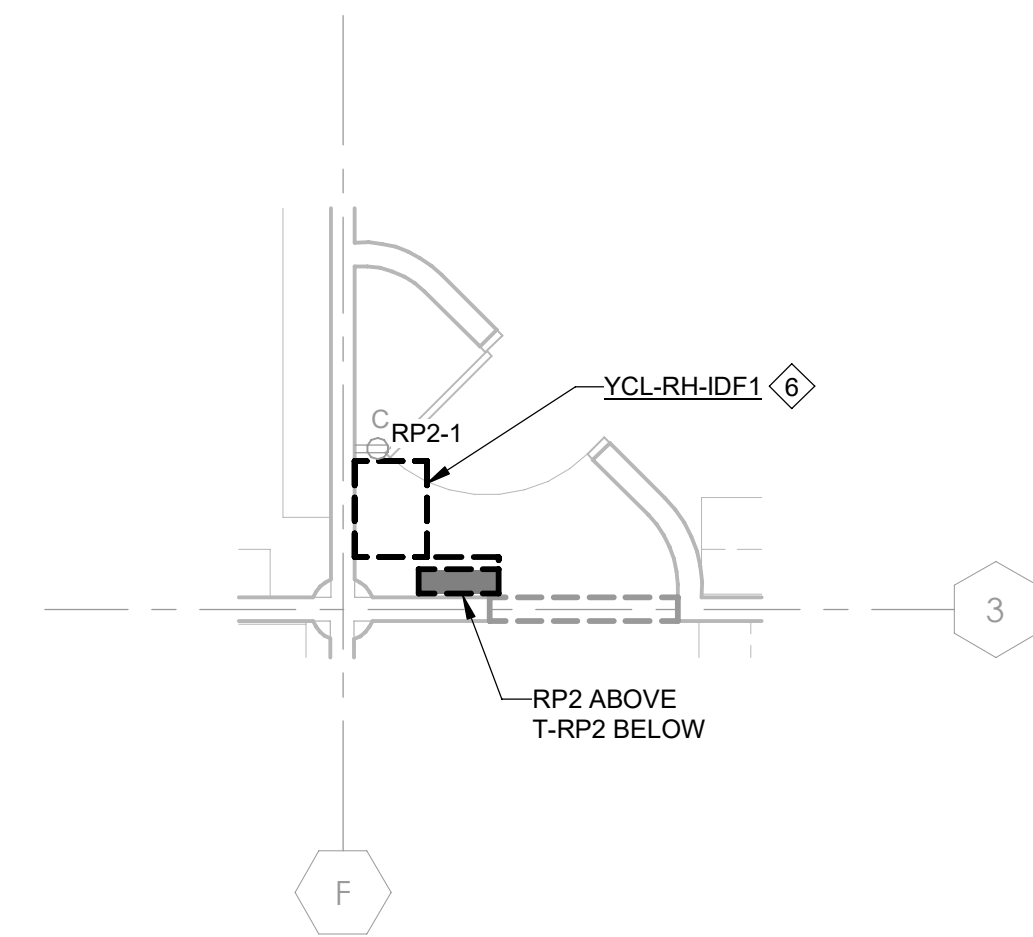
- GENERAL:** COORDINATE WITH YCL FOR ANY UNKNOWN OR QUESTIONABLE ITEMS PRIOR TO REMOVAL. REMOVE ALL ABANDONED ITEMS ABOVE CEILING. REFER ALSO TO LOW-VOLTAGE RESPONSIBILITY MATRIX ON SHEET E900.
- FIBER BACKBONE** (GREEN CABLE): EXISTING TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.
- VOICE/DATA:** REMOVE ALL CABLING, JACKS, & FACEPLATES THROUGHOUT. EXISTING DATA OUTLET LOCATIONS (BOX & CONDUIT) SHALL REMAIN FOR REUSE UNLESS NOTED OTHERWISE.
- WAP'S** (YELLOW CABLE): EXISTING TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION. DEVICES/EQUIPMENT TO BE REMOVED BY YCL PRIOR TO WORK.
- SECURITY CAMERAS:** REMOVE ALL CABLING AND JACKS THROUGHOUT. DEVICES/EQUIPMENT TO BE REMOVED BY YCL PRIOR TO WORK.
- SECURITY MOTION DETECTORS:** REMOVE ALL CABLING AND JACKS THROUGHOUT. DEVICES/EQUIPMENT TO BE REMOVED BY YCL PRIOR TO WORK.
- AV SYSTEMS (HDMI):** REMOVE ALL CABLING, JACKS, & FACEPLATES THROUGHOUT. EXISTING OUTLET LOCATIONS (BOX & CONDUIT) SHALL REMAIN FOR REUSE UNLESS NOTED OTHERWISE. DEVICES/EQUIPMENT TO BE REMOVED BY YCL PRIOR TO WORK.
- FIRE ALARM:** REMOVE ALL DEVICES AND CABLING THROUGHOUT UNLESS NOTED OTHERWISE.
- PAGING:** REMOVE ALL DEVICES AND CABLING THROUGHOUT UNLESS NOTED OTHERWISE.

GENERAL DEMOLITION NOTES:

- FOR ALL EXISTING EQUIPMENT, DEVICES, ETC. INDICATED TO REMAIN, FIELD VERIFY THE EXISTING CIRCUIT, AND PROVIDE NEW LABEL ON DEVICE PLATE WITH CORRECT PANEL/CIRCUIT. REFER TO LABELING DETAIL ON SHEET E001.
- ITEMS TO BE REMOVED ARE INDICATED BY DASHED LINETYPE AND/OR HATCHING.
- FOR DEVICES, FIXTURES, ETC. TO BE REMOVED, THEY AND THEIR RELATED WIRING/CONDUIT SHALL BE REMOVED BACK TO THE SOURCE PANEL/BOARD, UNLESS OTHERWISE NOTED. ON CIRCUITS WHERE OTHER DEVICES, FIXTURES, ETC. ARE FOUND THAT MUST REMAIN, MAINTAIN CIRCUIT CONTINUITY BY PROVIDING ADDITIONAL WIRING TO FEED THROUGH TO THESE REMAINING ITEMS. RE-CIRCUIT ANY REMAINING DEVICES AS REQUIRED TO AVAILABLE PANELBOARD SPACE. RELOCATE ANY CIRCUITS THAT REMAIN TO AVOID CONFLICT WITH NEW CONSTRUCTION AS REQUIRED. PROPERLY TERMINATE ALL WIRING.
- EXISTING CIRCUITS INDICATED ARE FOR REFERENCE ONLY. FIELD VERIFY ALL AFFECTED CIRCUITS.
- REROUTING OF EXISTING CONDUCTORS MAY BE REQUIRED AT NEW OPENINGS IN EXISTING CONSTRUCTION OR AROUND NEW WORK.

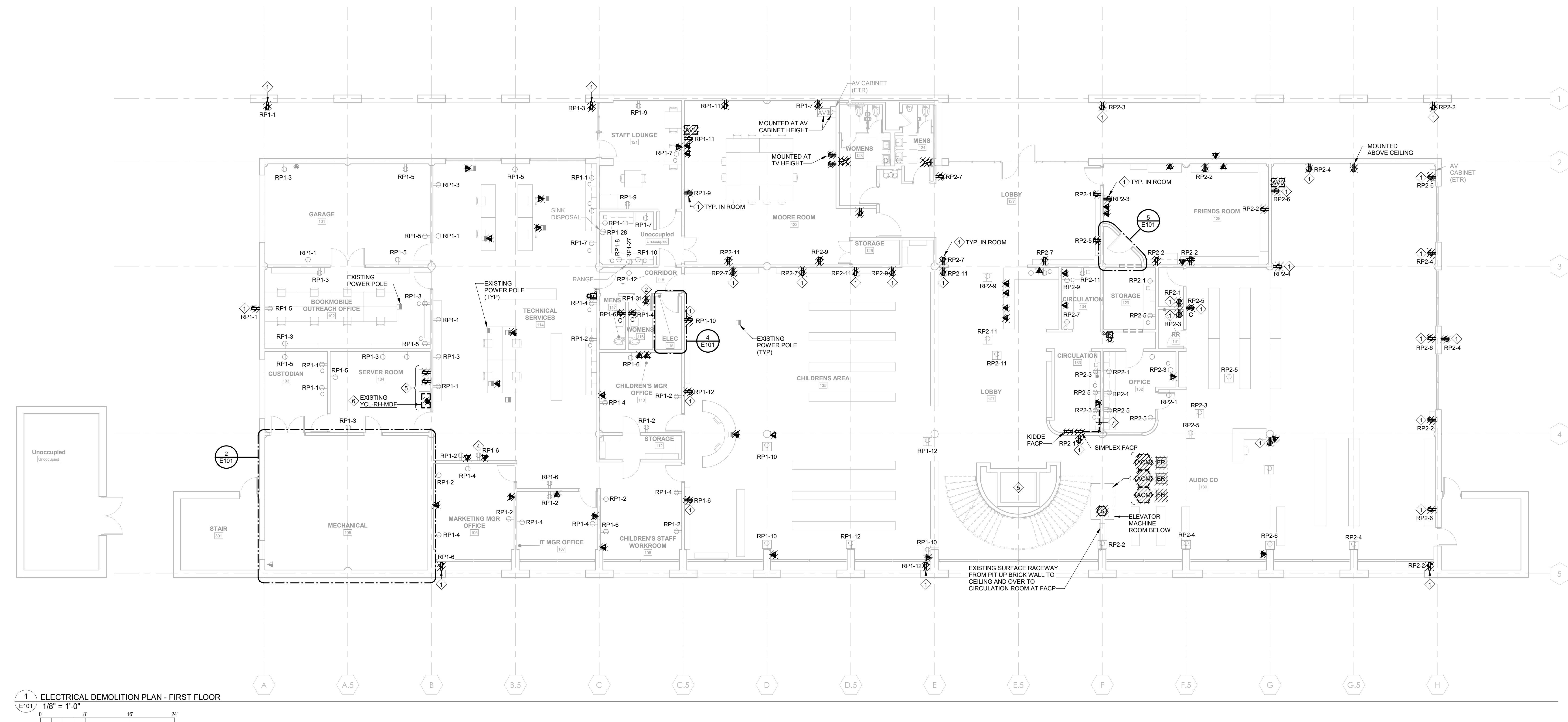
PLAN NOTES:

- EXISTING DEVICE, COVER, DISCONNECT, OR EQUIPMENT TO BE REPLACED. RETAIN EXISTING WIRING FOR RECONNECTION. EXTEND CONDUIT AND WIRING AS NECESSARY TO NEW LOCATIONS. NOTE THE EXISTING CIRCUIT ON THE AS-BUILT DRAWINGS.
- MOUNTED IN MECHANICAL MEZZANINE ABOVE.
- COORDINATE WITH OWNER REGARDING REMOVAL OF EXISTING ABANDONED TELEPHONE CABLING AT TELEPHONE BOARD.
- EXISTING DEVICE TO BE RELOCATED TO NEW CIRCUIT. SEE E201 FOR NEW CIRCUIT DESIGNATION.
- EXISTING SERVERS MUST BE KEPT OPERATIONAL DURING CONSTRUCTION. PROVIDE TEMPORARY POWER FOR SERVER CIRCUITS. SEE SINGLE-LINE DIAGRAM GENERAL NOTES FOR MORE INFORMATION.
- EXISTING NETWORK DISTRIBUTION FRAME TO BE REPLACED AND RELOCATED. SEE NEW WORK PLANS AND TELECOM SYSTEM RISER DIAGRAM.
- EXISTING SURFACE MOUNTED PHONE AND FA CABLING FROM ELEVATOR PIT. REMOVE AND REPLACE ALL CABLING. PROVIDE PROPER SUPPORT AND RACEWAY PER SPECIFICATIONS.



5 ENLARGED ELECTRICAL DEMOLITION PLAN - ELECTRICAL CLOSET 140

1/4" = 1'-0"



1 ELECTRICAL DEMOLITION PLAN - FIRST FLOOR

1/8" = 1'-0"



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DEVITA Project No. 23501-03

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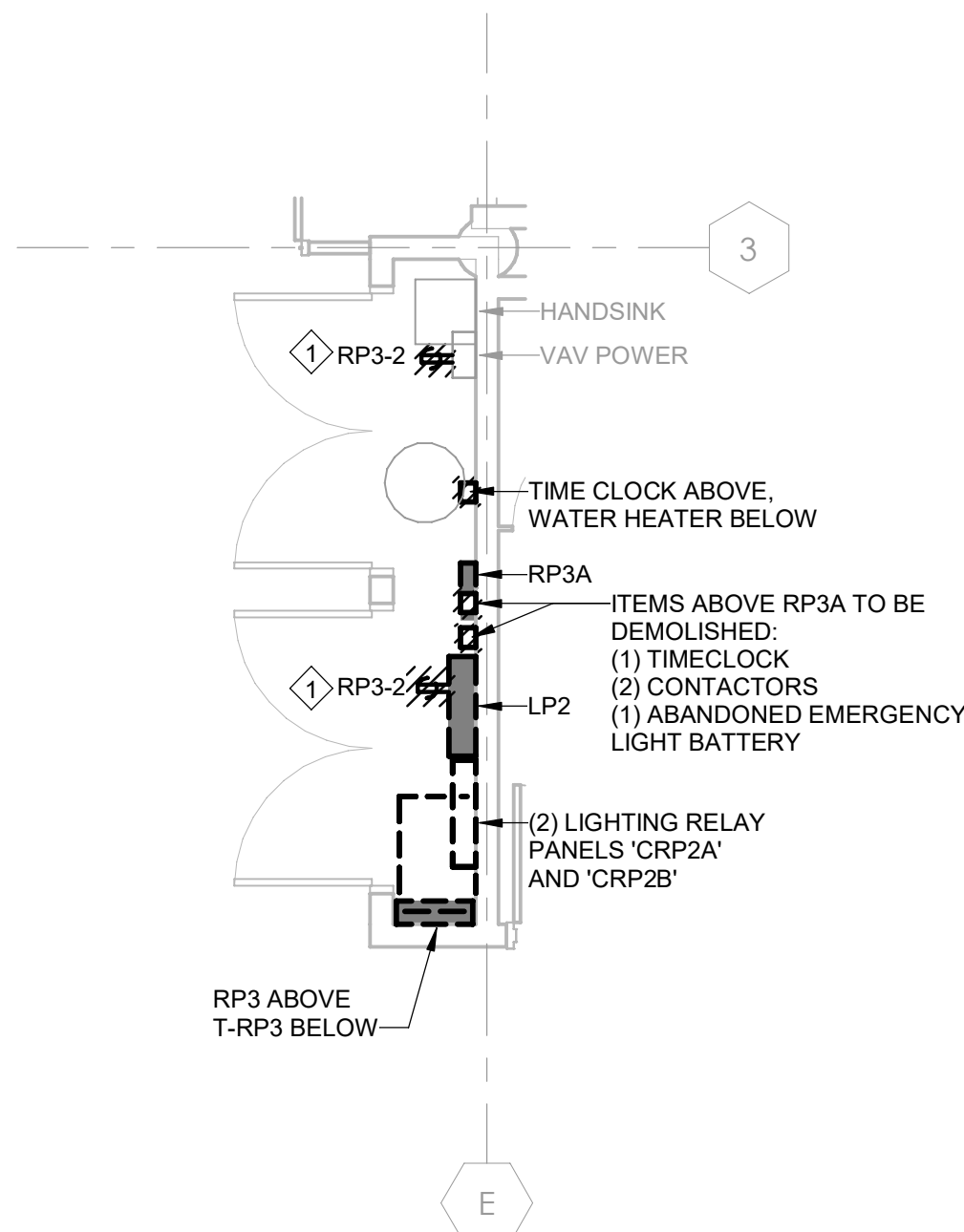
DRAWING NAME

ELECTRICAL DEMOLITION PLAN - FIRST FLOOR

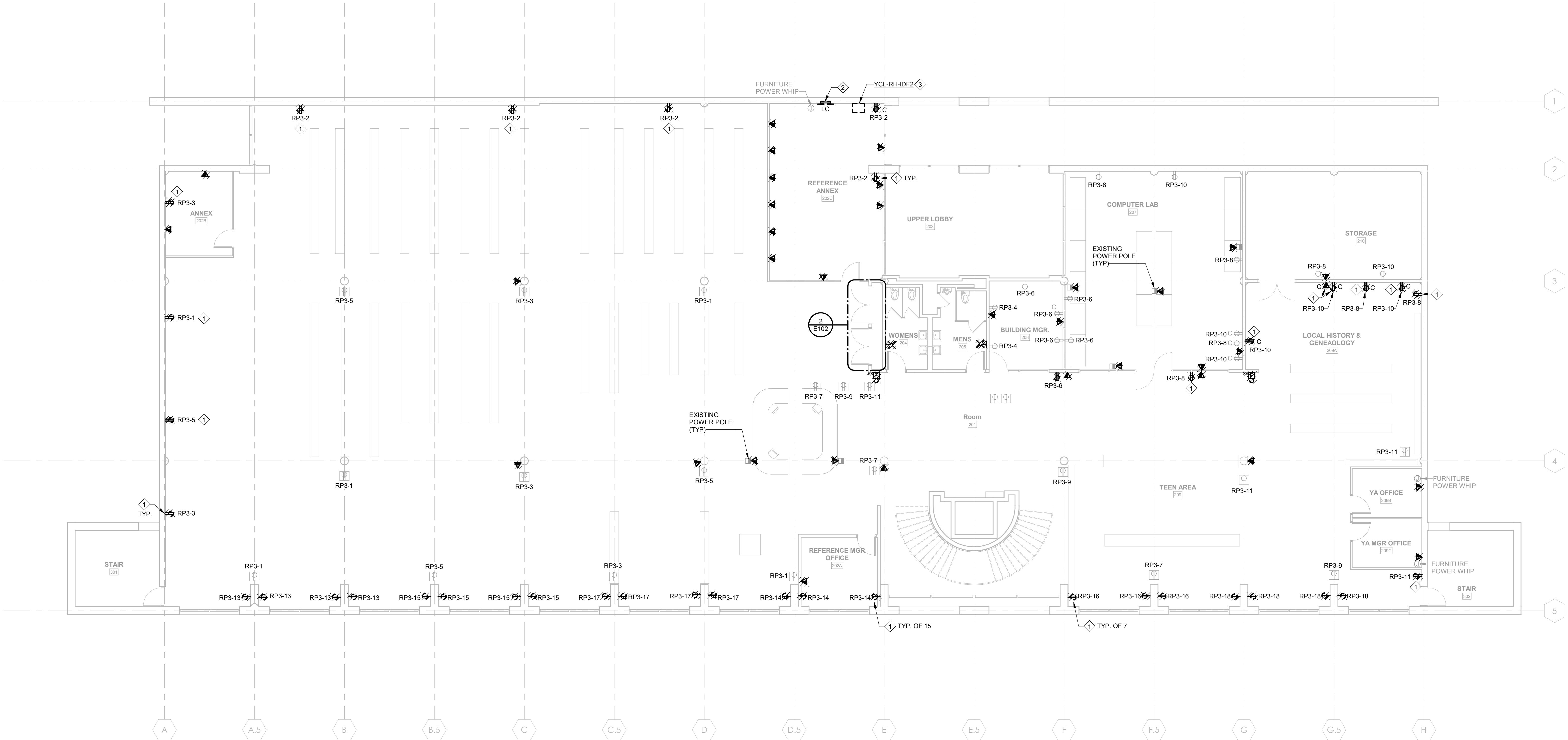
DRAWING NO.

E101

Drawn By: RHV Checked By: SLE



2
E102
1/4" = 1'-0"



1
E102
1/8" = 1'-0"

LOW-VOLTAGE SYSTEM DEMOLITION SCOPE:

- GENERAL:** COORDINATE WITH YCL FOR ANY UNKNOWN OR QUESTIONABLE ITEMS PRIOR TO REMOVAL. REMOVE ALL ABANDONED ITEMS ABOVE CEILING. REFER ALSO TO LOW-VOLTAGE RESPONSIBILITY MATRIX ON SHEET E900.
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- SECURITY MOTION DETECTORS:** REMOVE ALL CABLING AND JACKS THROUGHOUT. DEVICES/EQUIPMENT TO BE REMOVED BY YCL PRIOR TO WORK.
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- FIRE ALARM:** REMOVE ALL DEVICES AND CABLING THROUGHOUT UNLESS NOTED OTHERWISE.
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TRACING & LABELING SCOPE

- THE INTENT OF THIS PROJECT IS TO RECONFIGURE THE EXISTING ELECTRICAL DISTRIBUTION. EXISTING BRANCH CIRCUIT HOMERUNS WILL BE RELOCATED TO THE PROPER SOURCE BASED ON THEIR DESCRIPTIONS AND THE CIRCUIT TRACING SCOPE NOTED BELOW.
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- FOR EXISTING CIRCUITS WITHOUT AN EQUIPMENT GROUNDING CONDUCTOR (EGC), MAKE GROUND CONNECTION AT CIRCUIT INTERCEPT POINT AND PROVIDE EGC IN CIRCUIT EXTENSION WIRING BACK TO PANEL FOR THE REMAINING PORTION OF THE CIRCUIT. ENSURE THAT EXISTING CONDUIT USED AS EGC IS BONDED AT JUNCTION BOX PER NEC TO MAINTAIN EGC INTEGRITY.

GENERAL DEMOLITION NOTES:

- FOR ALL EXISTING EQUIPMENT, DEVICES, ETC. INDICATED TO REMAIN, FIELD VERIFY THE EXISTING CIRCUIT, AND PROVIDE NEW LABEL ON DEVICE PLATE WITH CORRECT PANEL/CIRCUIT. REFER TO LABELING DETAIL ON SHEET E001.
- ITEMS TO BE REMOVED ARE INDICATED BY DASHED LINETYPE AND/OR HATCHING.
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- REROUTING OF EXISTING CONDUCTORS MAY BE REQUIRED AT NEW OPENINGS IN EXISTING CONSTRUCTION OR AROUND NEW WORK.

PLAN NOTES:

- EXISTING DEVICE, COVER, DISCONNECT, OR EQUIPMENT TO BE REPLACED. RETAIN EXISTING WIRING FOR RECONNECTION. EXTEND CONDUIT AND WIRING AS NECESSARY TO NEW LOCATIONS. NOTE THE EXISTING CIRCUIT ON THE AS-BUILT DRAWINGS.
- EXISTING LOAD CENTER TO BE DEMOLISHED WITH ALL ACTIVE CIRCUITS RELOCATED TO NEW PANEL RP3A. REUSE EXISTING ENCLOSURE AS PULL BOX FOR FEED THROUGH OF EXISTING ACTIVE BRANCH CIRCUITS.
- EXISTING NETWORK DISTRIBUTION FRAME TO BE REPLACED AND RELOCATED. SEE NEW WORK PLANS AND TELECOM SYSTEM RISER DIAGRAM.



DEVITA Project No. 23501-03

PROJECT INFORMATION:

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DRAWING NAME

ELECTRICAL DEMOLITION PLAN - SECOND FLOOR

DRAWING NO.

E102

Drawn By: RHV Checked By: SLE

TRACING & LABELING SCOPE:

- THE INTENT OF THIS PROJECT IS TO RECONFIGURE THE EXISTING ELECTRICAL DISTRIBUTION. EXISTING BRANCH CIRCUIT HOMERUNS WILL BE RELOCATED TO THE PROPER SOURCE BASED ON THEIR DESCRIPTIONS AND THE CIRCUIT TRACING SCOPE NOTED BELOW.
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- LABEL ALL DISCONNECTS, WIRING DEVICES, LIGHTING CONTROLS, LV SYSTEM PANELS, AND OTHER EQUIPMENT FED BY AC POWER WITH PANEL/CIRCUIT LABEL ITEMS WHETHER SHOWN OR NOT ON THESE PLANS. FIELD DETERMINE ALL EXISTING ITEMS TO BE LABELED.
- FOR EXISTING CIRCUITS WITHOUT AN EQUIPMENT GROUNDING CONDUCTOR (EGC), MAKE GROUND CONNECTION AT CIRCUIT INTERCEPT POINT AND PROVIDE EGC IN CIRCUIT EXTENSION WIRING BACK TO PANEL, FOR THE REMAINING PORTION OF THE CIRCUIT. ENSURE THAT EXISTING CONDUIT USED AS EGC IS BONDED AT JUNCTION BOX PER NEC TO MAINTAIN EGC INTEGRITY.

LOW-VOLTAGE SYSTEM DEMOLITION SCOPE:

- GENERAL:** COORDINATE WITH YCL FOR ANY UNKNOWN OR QUESTIONABLE ITEMS PRIOR TO REMOVAL. REMOVE ALL ABANDONED ITEMS ABOVE CEILING. REFER TO LV RESPONSIBILITY MATRIX ON SHEET E500 FOR MORE INFORMATION.
- FIBER BACKBONE** (GREEN CABLE): EXISTING TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.
- VOICE/DATA:** REMOVE ALL CABLING, JACKS, & FACEPLATES THROUGHOUT. EXISTING DATA OUTLET LOCATIONS (BOX & CONDUIT) SHALL REMAIN FOR REUSE UNLESS NOTED OTHERWISE.
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- PAGING:** REMOVE ALL DEVICES AND CABLING THROUGHOUT UNLESS NOTED OTHERWISE.

GENERAL DEMOLITION NOTES:

- ALL CEILING MOUNTED DEVICES AND FIXTURES SHALL BE REMOVED, U.N.O.
- FOR ALL EXISTING EQUIPMENT, DEVICES, ETC. INDICATED TO REMAIN, FIELD VERIFY THE EXISTING CIRCUIT, AND PROVIDE NEW LABEL ON DEVICE PLATE WITH CORRECT PANEL/CIRCUIT. REFER TO LABELING DETAIL ON SHEET E001.
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- REROUTING OF EXISTING CONDUCTORS MAY BE REQUIRED AT NEW OPENINGS IN EXISTING CONSTRUCTION OR AROUND NEW WORK.

PLAN NOTES:

- EXISTING DEVICE OR FIXTURE TO BE REPLACED. RETAIN EXISTING CONDUIT AND WIRING FOR RECONNECTION.
- EXISTING SWITCH BANK WITH SWITCHES AS FOLLOWS:

1 - NOT IN USE	9 - CHILDREN'S AREA
2 - LOBBY	10 - NOT IN USE
3 - ADULT READING (FICTION)	11 - AUDIO, LARGE PRINT, ACTIVITIES
4 - ADULT READING (NONFICTION)	12 - LOBBY, CIRCULATION
5 - TEEN AREA	13 - NOT IN USE
6 - LOCAL HISTORY & STORAGE	14 - NOT IN USE
7 - NOT IN USE	15 - NOT IN USE
8 - COMPUTER LAB	16 - NOT IN USE
- REMOVE PROJECTOR DEVICES ABOVE CEILING. RETAIN CIRCUIT FOR RECONNECTION TO NEW CEILING-MOUNTED DEVICE TO COMPLY WITH NEC 400.12(2) & (5).



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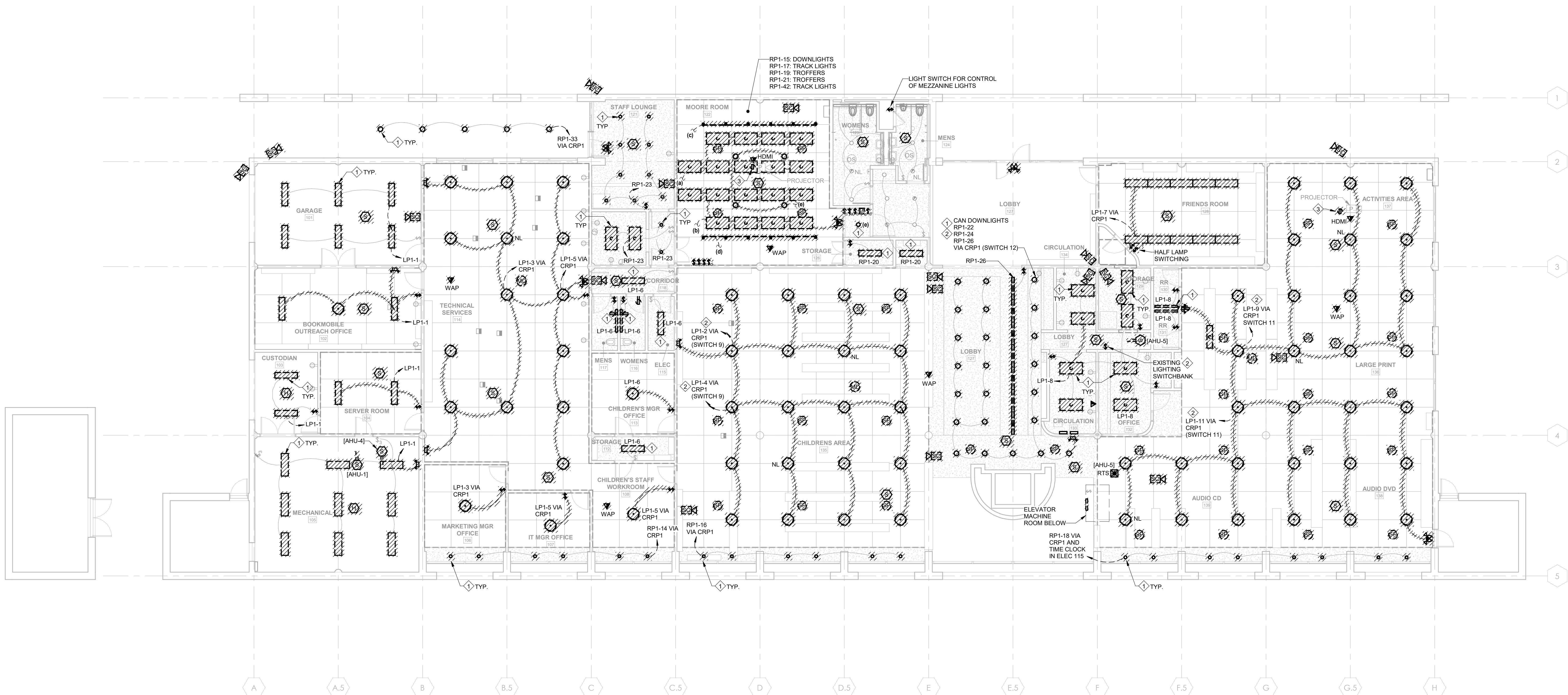
DRAWING NAME

ELECTRICAL CEILING DEMOLITION PLAN - FIRST FLOOR

DRAWING NO.

E111

Drawn By: RHV Checked By: SLE



1 ELECTRICAL CEILING DEMOLITION PLAN - FIRST FLOOR
E111
1/8" = 1'-0"
0 8 16 24

TRACING & LABELING SCOPE

- THE INTENT OF THIS PROJECT IS TO RECONFIGURE THE EXISTING ELECTRICAL DISTRIBUTION. EXISTING BRANCH CIRCUIT HOMERUNS WILL BE RELOCATED TO THE PROPER SOURCE BASED ON THEIR DESCRIPTIONS AND THE CIRCUIT TRACING SCOPE NOTED BELOW.
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- LABEL ALL DISCONNECTS, WIRING DEVICES, LIGHTING CONTROLS, LV SYSTEM PANELS, AND OTHER EQUIPMENT FED BY AC POWER WITH PANEL/CIRCUIT LABEL ITEMS WHETHER SHOWN OR NOT ON THESE PLANS. FIELD DETERMINE ALL EXISTING ITEMS TO BE LABELED.
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LOW-VOLTAGE SYSTEM DEMOLITION SCOPE:

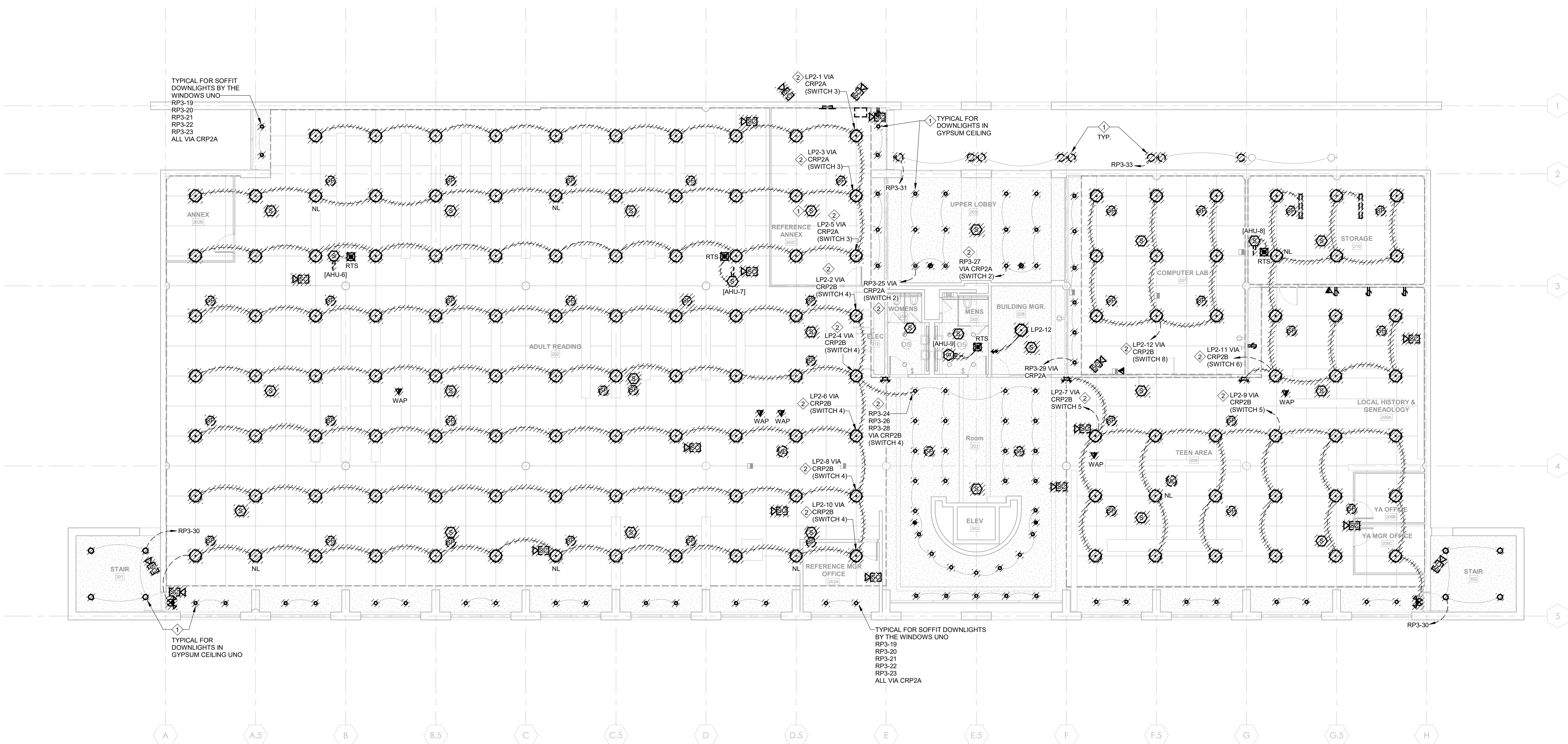
- GENERAL:** COORDINATE WITH YCL FOR ANY UNKNOWN OR QUESTIONABLE ITEMS PRIOR TO REMOVAL. REMOVE ALL ABANDONED ITEMS ABOVE CEILING. REFER TO LV RESPONSIBILITY MATRIX ON SHEET E000 FOR MORE INFORMATION.
- FIBER BACKBONE (GREEN CABLE):** EXISTING TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.
- VOICE/DATA:** REMOVE ALL CABLING, JACKS, & FACEPLATES THROUGHOUT. EXISTING DATA OUTLET LOCATIONS (BOX & CONDUIT) SHALL REMAIN FOR REUSE UNLESS NOTED OTHERWISE.
- WAP'S (YELLOW CABLE):** EXISTING TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION. DEVICES/EQUIPMENT TO BE REMOVED BY YCL PRIOR TO WORK.
- SECURITY CAMERAS:** REMOVE ALL CABLING AND JACKS THROUGHOUT. DEVICES/EQUIPMENT TO BE REMOVED BY YCL PRIOR TO WORK.
- SECURITY MOTION DETECTORS:** REMOVE ALL CABLING AND JACKS THROUGHOUT. DEVICES/EQUIPMENT TO BE REMOVED BY YCL PRIOR TO WORK.
- AV SYSTEMS (HDMI):** REMOVE ALL CABLING, JACKS, & FACEPLATES THROUGHOUT. EXISTING OUTLET LOCATIONS (BOX & CONDUIT) SHALL REMAIN FOR REUSE UNLESS NOTED OTHERWISE. DEVICES/EQUIPMENT TO BE REMOVED BY YCL PRIOR TO WORK.
- FIRE ALARM:** REMOVE ALL DEVICES AND CABLING THROUGHOUT UNLESS NOTED OTHERWISE.
- PAGING:** REMOVE ALL DEVICES AND CABLING THROUGHOUT UNLESS NOTED OTHERWISE.

GENERAL DEMOLITION NOTES:

- ALL CEILING MOUNTED DEVICES AND FIXTURES SHALL BE REMOVED. UNO.
- FOR ALL EXISTING EQUIPMENT, DEVICES, ETC. INDICATED TO REMAIN, FIELD VERIFY THE EXISTING CIRCUIT. AND PROVIDE NEW LABEL ON DEVICE PLATE WITH CORRECT PANEL/CIRCUIT. REFER TO LABELING DETAIL ON SHEET E001.
- ITEMS TO BE REMOVED ARE INDICATED BY DASHED LINETYPE AND/OR HATCHING.
- FOR DEVICES, FIXTURES, ETC. TO BE REMOVED, THEY AND THEIR RELATED WIRING/CONDUIT SHALL BE REMOVED BACK TO A CONVENIENT POINT FOR REUSE IN NEW WORK, UNLESS OTHERWISE NOTED. ON CIRCUITS WHERE OTHER DEVICES, FIXTURES, ETC. ARE FOUND THAT MUST REMAIN, MAINTAIN CIRCUIT CONTINUITY BY PROVIDING ADDITIONAL WIRING TO FEED THROUGH TO THESE REMAINING ITEMS. RE-CIRCUIT ANY REMAINING DEVICES AS REQUIRED TO AVAILABLE PANELBOARD SPACE. RELOCATE ANY CIRCUITS THAT REMAIN TO AVOID CONFLICT WITH NEW CONSTRUCTION AS REQUIRED. PROPERLY TERMINATE ALL WIRING.
- EXISTING CIRCUITS INDICATED ARE FOR REFERENCE ONLY. FIELD VERIFY ALL AFFECTED CIRCUITS.
- REROUTING OF EXISTING CONDUCTORS MAY BE REQUIRED AT NEW OPENINGS IN EXISTING CONSTRUCTION OR AROUND NEW WORK.

PLAN NOTES:

- EXISTING DEVICE OR FIXTURE TO BE REPLACED. RETAIN EXISTING CONDUIT AND WIRING FOR RECONNECTION.
- SEE PLAN NOTE 2 ON SHEET E111 FOR EXISTING SWITCHBANK ARRANGEMENT.



1 ELECTRICAL CEILING DEMOLITION PLAN - SECOND FLOOR
1/8" = 1'-0"



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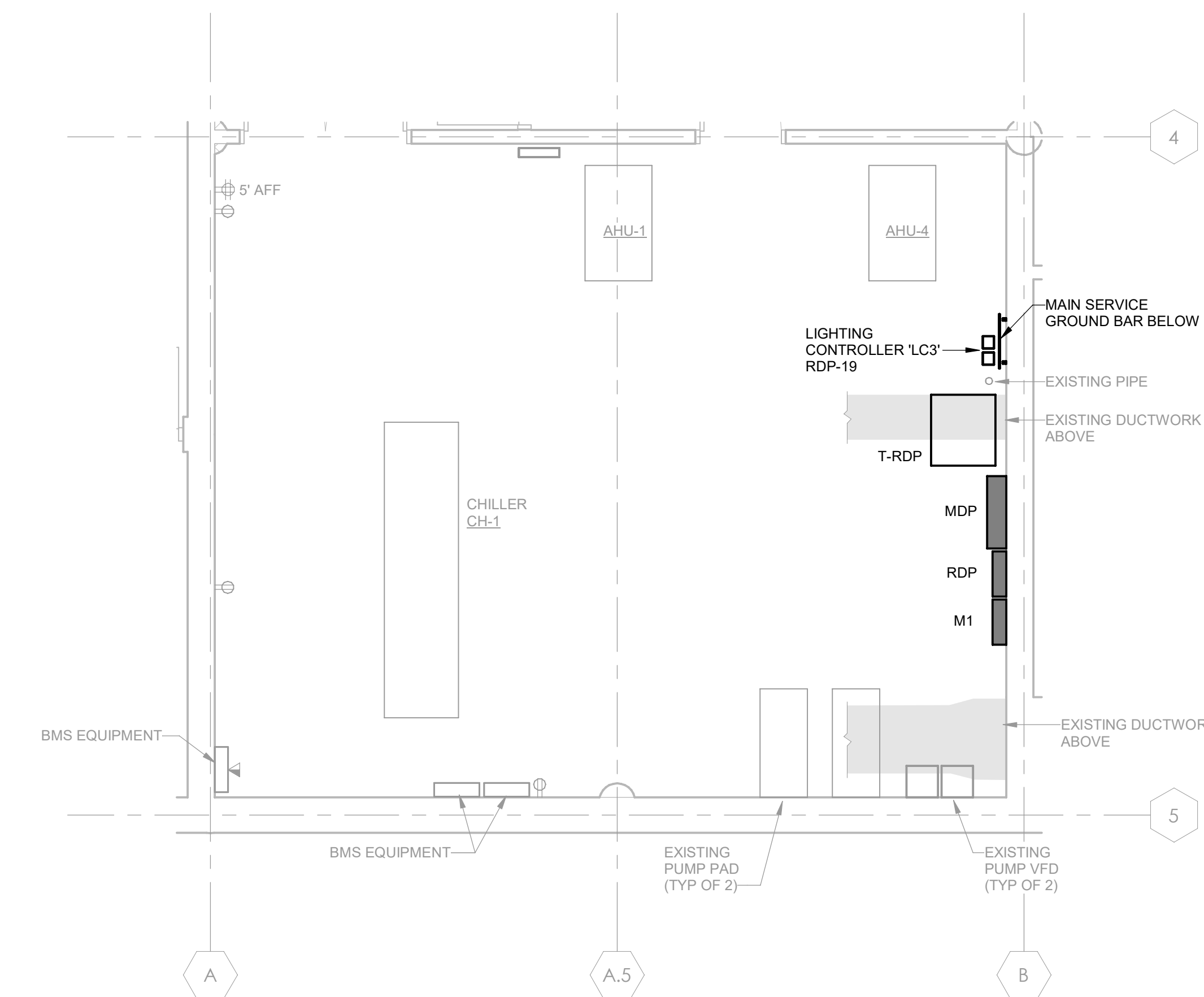
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ELECTRICAL CEILING
DEMOLITION PLAN -
SECOND FLOOR

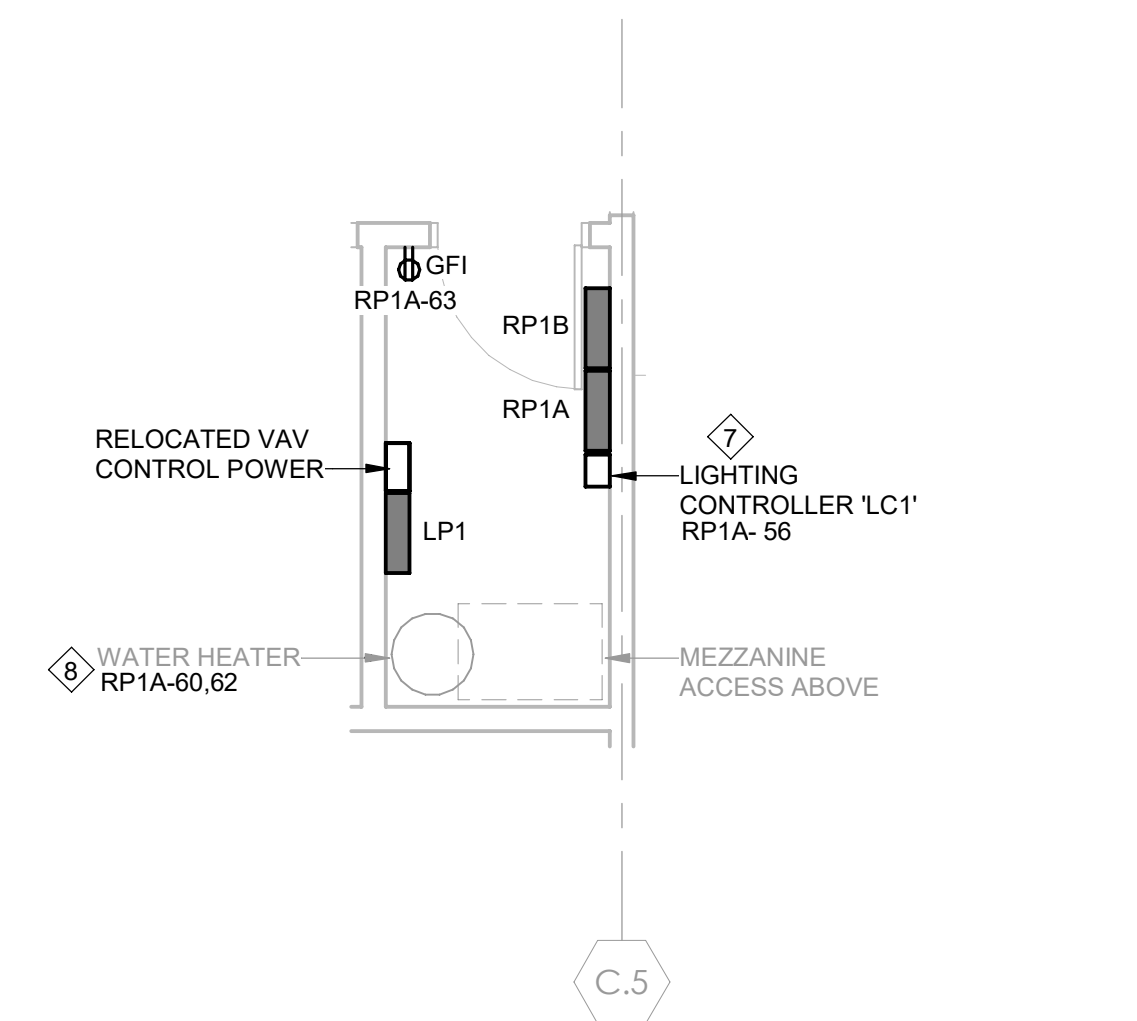
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E112

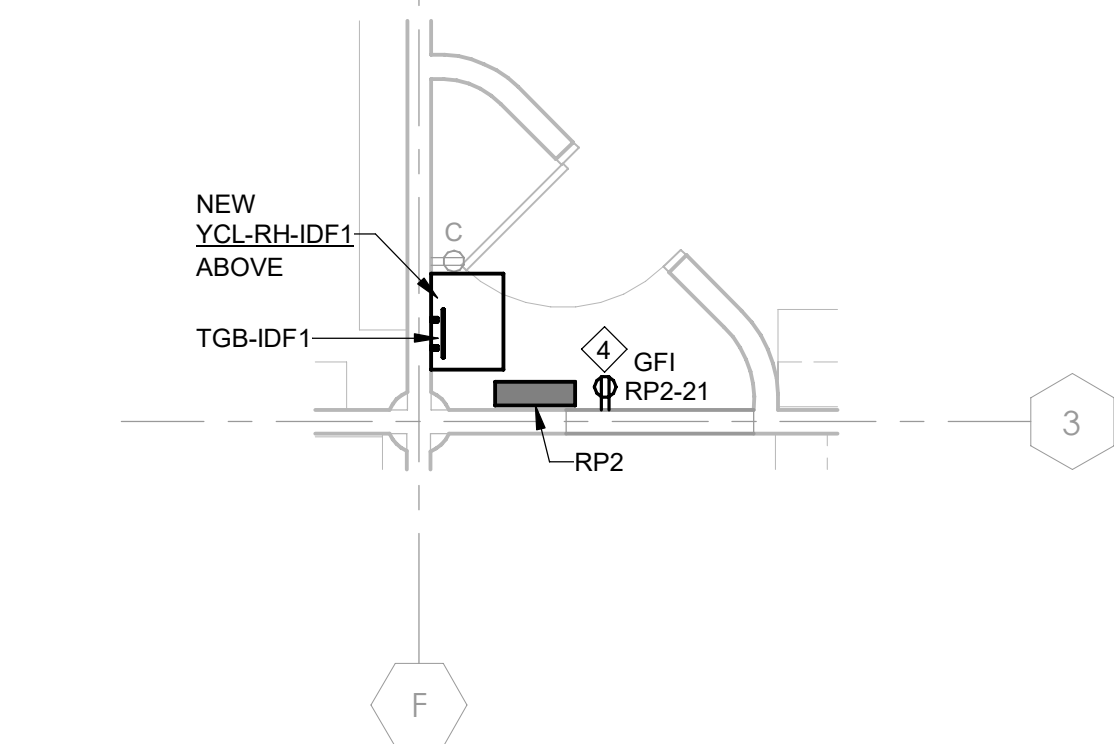
Drawn By: RHW Checked By: SLE



2
E201
ENLARGED ELECTRICAL POWER PLAN - MECHANICAL ROOM
1/4" = 1'-0"



3
E201
ENLARGED ELECTRICAL POWER PLAN - ELECTRICAL ROOM 115
1/4" = 1'-0"



4
E201
ENLARGED ELECTRICAL POWER PLAN - ELECTRICAL CLOSET 140
1/4" = 1'-0"

TRACING & LABELING SCOPE

- THE INTENT OF THIS PROJECT IS TO RECONFIGURE THE EXISTING ELECTRICAL DISTRIBUTION, EXISTING BRANCH CIRCUIT HOMERUNS WILL BE RELOCATED TO THE PROPER SOURCE BASED ON THEIR DESCRIPTIONS AND THE CIRCUIT TRACING SCOPE NOTED BELOW.
- EXISTING CIRCUIT DESCRIPTIONS SHOWN IN THE PANEL SCHEDULES ARE TAKEN FROM THE EXISTING CURRENT PHYSICAL PANEL DIRECTORIES. MANY OF THESE DIRECTORIES CONTAIN OUTDATED AND/OR AMBIGUOUS DESCRIPTIONS, OR ARE OTHERWISE KNOWN TO BE INACCURATE. PRIOR TO CIRCUIT RELOCATION WORK, TRACE ALL CIRCUITS IN EACH AFFECTED EXISTING PANEL AND PROVIDE UPDATED DIRECTORY WITH APPROPRIATE SPECIFIC LOAD DESCRIPTION CLEARLY DISTINGUISHING EACH CIRCUIT FROM ALL OTHERS PER NEC 408.4. FOR CIRCUITS TO BE RELOCATED, DO THIS WORK IN ORDER TO REFLECT PROPER CIRCUIT DESCRIPTIONS IN NEW PANEL.
- TRACE EACH CIRCUIT TO LOAD AND REPLACE ANY EXISTING CIRCUIT LABELS, INCLUDING LABELS AT BREAKERS, ALL JUNCTION BOXES, DISCONNECTS/STARTERS, AND AT THE LOAD ITSELF, WITH NEW LABELING INDICATING THE NEW CIRCUIT.
- LABEL ALL DISCONNECTS, WIRING DEVICES, LIGHTING CONTROLS, LV SYSTEM PANELS, AND OTHER EQUIPMENT FED BY AC POWER WITH PANEL/CIRCUIT, LABEL ITEMS WHETHER SHOWN OR NOT ON THESE PLANS. FIELD DETERMINE ALL EXISTING ITEMS TO BE LABELED.
- FOR EXISTING CIRCUITS WITHOUT AN EQUIPMENT GROUNDING CONDUCTOR (EGC), MAKE GROUND CONNECTION AT CIRCUIT INTERCEPT POINT AND PROVIDE EGC IN CIRCUIT EXTENSION WIRING BACK TO PANEL, FOR THE REMAINING PORTION OF THE CIRCUIT, ENSURE THAT EXISTING CONDUIT USED AS EGC IS BONDED AT JUNCTION BOX PER NEC TO MAINTAIN EGC INTEGRITY.

GENERAL NOTES:

- LABEL ALL WIRING DEVICES WITH PANEL/CIRCUIT SERVING DEVICE. REFER TO LABELING DETAIL ON SHEET E001.

PLAN NOTES:

- REPLACE EXISTING DEVICE WITH NEW PER SPECIFICATIONS AND RECONNECT TO THE EXISTING CIRCUIT. EXTEND CONDUIT AND WIRING AS NECESSARY TO NEW LOCATIONS. NOTE THE EXISTING CIRCUIT ON THE AS-BUILT DRAWINGS.
- REPLACE EXISTING DEVICE WITH NEW PER SPECIFICATIONS AND CONNECT TO NEW CIRCUIT INDICATED.
- PROVIDE 120V CIRCUIT ABOVE CEILING AT DOOR. TERMINATE AND MAKE SAFE CIRCUIT WIRING IN JUNCTION BOX FOR FUTURE LOAD INDICATED. TURN ASSOCIATED BREAKER OFF.
- PROVIDE NEW DEVICE AND CONNECT TO EXISTING LOCAL RECEPTACLE CIRCUIT UNO.
- COORDINATE EXACT LOCATION OF FLOOR BOX WITH OWNER PRIOR TO ROUGH-IN.
- EXISTING SERVERS MUST BE KEPT OPERATIONAL DURING CONSTRUCTION. PROVIDE TEMPORARY POWER FOR SERVER CIRCUITS. SEE SINGLE-LINE DIAGRAM GENERAL NOTES FOR MORE INFORMATION.
- ARRANGE 'LC1' TIME CLOCK AND CONTACTOR VERTICALLY OR OTHERWISE TO AVOID NEC WORKING SPACE OF PANEL 'LP1' ON OPPOSITE WALL.
- EXISTING WATER HEATER TO BE SERVED FROM NEW SOURCE PANEL.
- MOUNT DEVICE AT AV CABINET. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.



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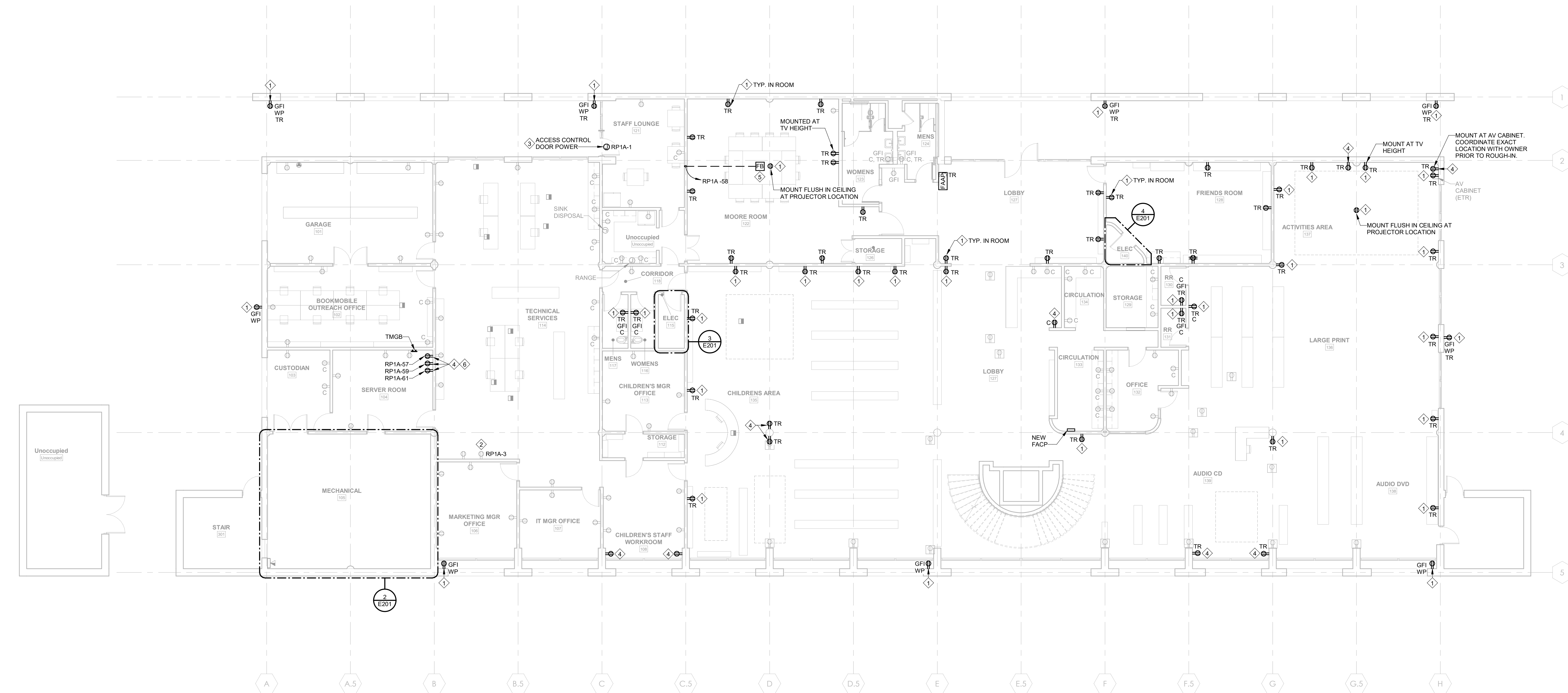
DRAWING NAME

ELECTRICAL POWER PLAN - FIRST FLOOR

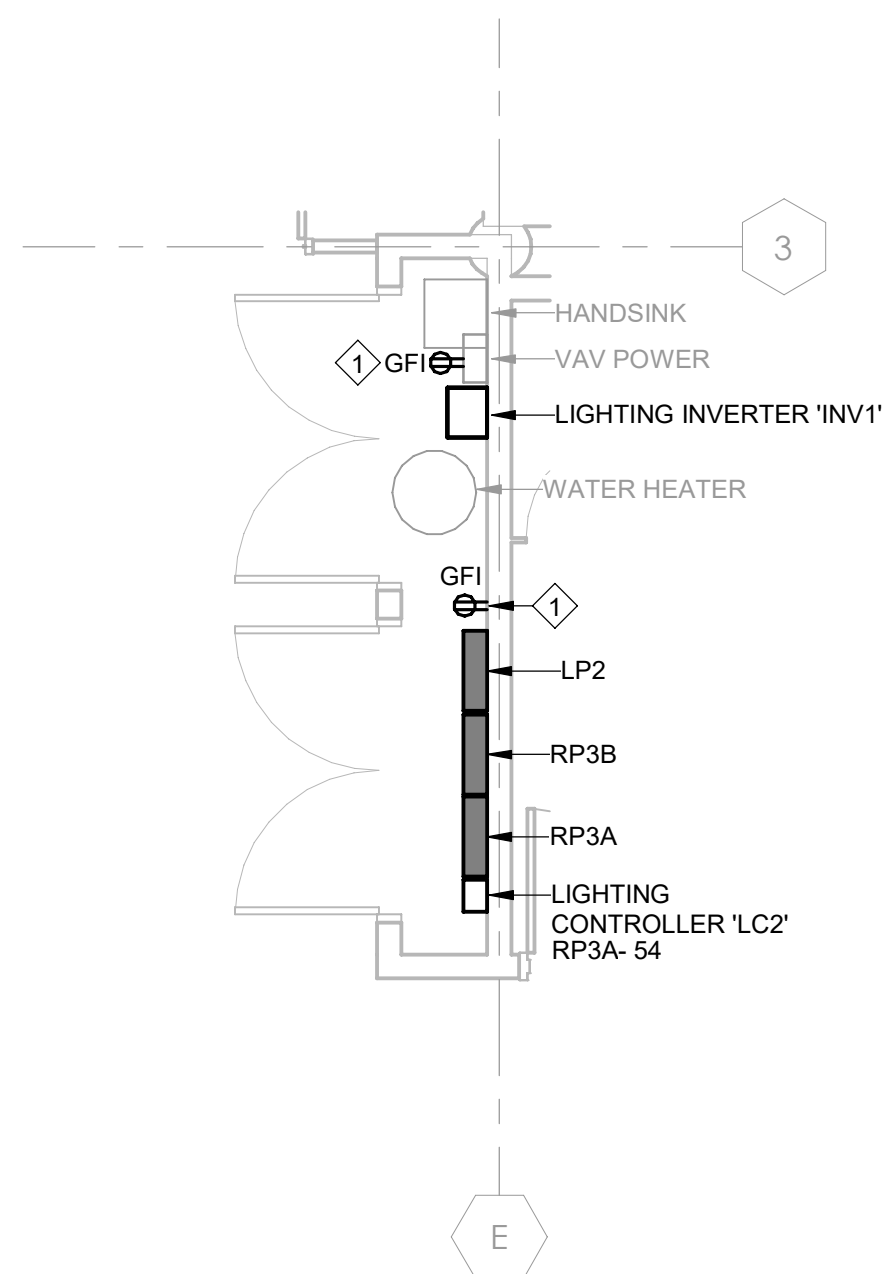
DRAWING NO.

E201

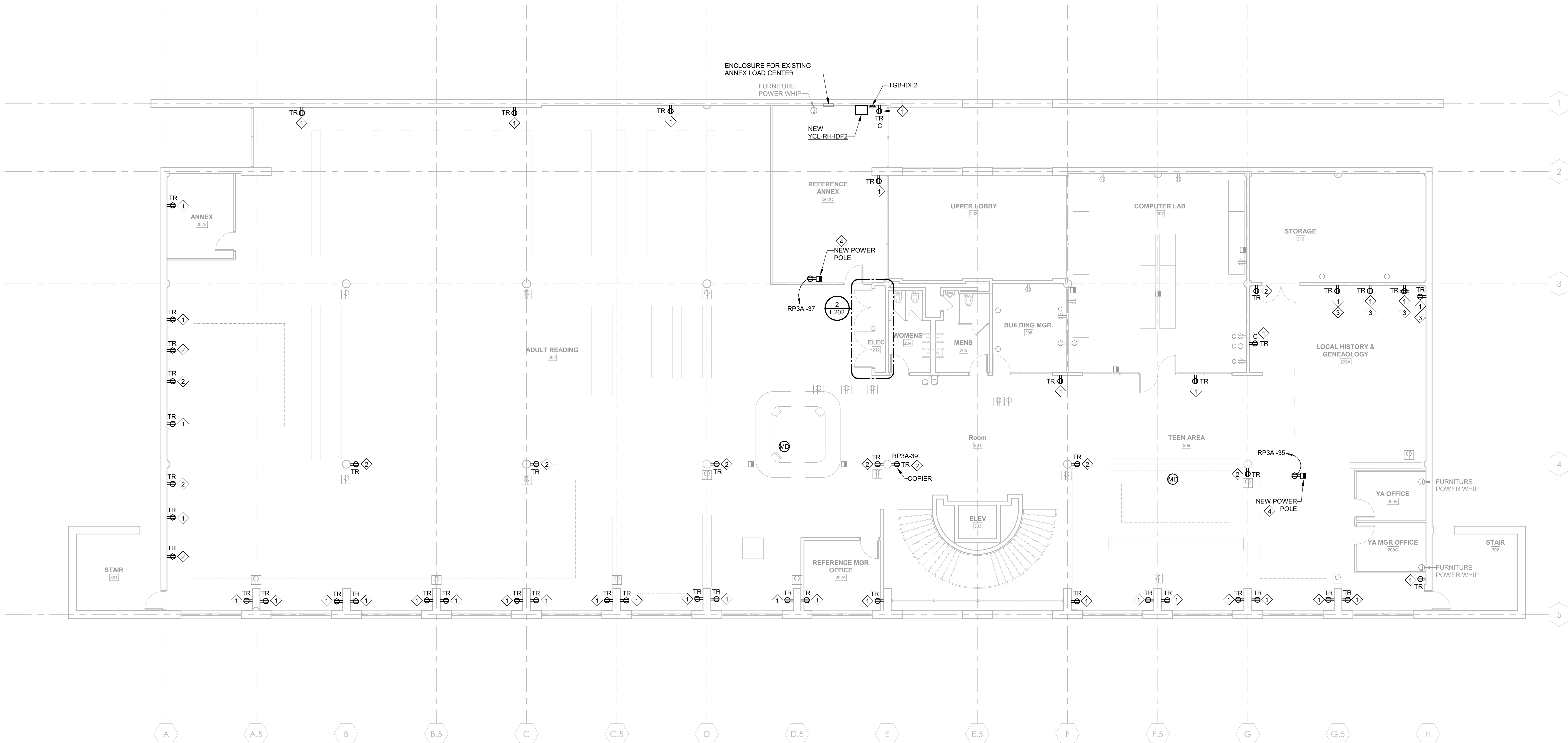
Drawn By: RHV Checked By: SLE



1
E201
ELECTRICAL POWER PLAN - FIRST FLOOR
1/8" = 1'-0"



2 ENLARGED ELECTRICAL POWER PLAN - ELECTRICAL ROOM 212
1/4" = 1'-0"



1 ELECTRICAL POWER PLAN - SECOND FLOOR
1/8" = 1'-0"

TRACING & LABELING SCOPE

- THE INTENT OF THIS PROJECT IS TO RECONFIGURE THE EXISTING ELECTRICAL DISTRIBUTION. EXISTING BRANCH CIRCUIT HOMERUNS WILL BE RELOCATED TO THE PROPER SOURCE BASED ON THEIR DESCRIPTIONS AND THE CIRCUIT TRACING SCOPE NOTED BELOW.
- EXISTING CIRCUIT DESCRIPTIONS SHOWN IN THE PANEL SCHEDULES ARE TAKEN FROM THE EXISTING CURRENT PHYSICAL PANEL DIRECTORIES. MANY OF THESE DIRECTORIES CONTAIN OUTDATED AND/OR AMBIGUOUS DESCRIPTIONS, OR ARE OTHERWISE KNOWN TO BE INACCURATE. PRIOR TO CIRCUIT RELOCATION WORK, TRACE ALL CIRCUITS IN EACH AFFECTED EXISTING PANEL AND PROVIDE UPDATED DIRECTORY WITH APPROPRIATE SPECIFIC LOAD DESCRIPTION CLEARLY DISTINGUISHING EACH CIRCUIT FROM ALL OTHERS PER NEC 408.4. FOR CIRCUITS TO BE RELOCATED, DO THIS WORK IN ORDER TO REFLECT PROPER CIRCUIT DESCRIPTIONS IN NEW PANEL.
- TRACE EACH CIRCUIT TO LOAD AND REPLACE ANY EXISTING CIRCUIT LABELS, INCLUDING LABELS AT BREAKERS, ALL JUNCTION BOXES, DISCONNECTS/STARTERS, AND AT THE LOAD ITSELF, WITH NEW LABELING INDICATING THE NEW CIRCUIT.
- LABEL ALL DISCONNECTS, WIRING DEVICES, LIGHTING CONTROLS, LV SYSTEM PANELS, AND OTHER EQUIPMENT FED BY AC POWER WITH PANEL/CIRCUIT. LABEL ITEMS WHETHER SHOWN OR NOT ON THESE PLANS. FIELD DETERMINE ALL EXISTING ITEMS TO BE LABELED.
- FOR EXISTING CIRCUITS WITHOUT AN EQUIPMENT GROUNDING CONDUCTOR (EGC), MAKE GROUND CONNECTION AT CIRCUIT INTERCEPT POINT AND PROVIDE EGC IN CIRCUIT EXTENSION WIRING BACK TO PANEL. FOR THE REMAINING PORTION OF THE CIRCUIT, ENSURE THAT EXISTING CONDUIT USED AS EGC IS BONDED AT JUNCTION BOX PER NEC TO MAINTAIN EGC INTEGRITY.

GENERAL NOTES:

- A. LABEL ALL WIRING DEVICES WITH PANEL/CIRCUIT SERVING DEVICE. REFER TO LABELING DETAIL ON SHEET E001.

PLAN NOTES:

- REPLACE EXISTING DEVICE WITH NEW PER SPECIFICATIONS AND RECONNECT TO THE EXISTING CIRCUIT. EXTEND CONDUIT AND WIRING AS NECESSARY TO NEW LOCATIONS. NOTE THE EXISTING CIRCUIT ON THE AS-BUILT DRAWINGS.
- PROVIDE NEW DEVICE AND CONNECT TO EXISTING LOCAL RECEPTACLE CIRCUIT UNO.
- EXISTING DEVICE RELOCATED TO 18" A.F.F.
- COORDINATE EXACT LOCATION OF NEW POWER POLE WITH OWNER PRIOR TO ROUGH-IN.

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SOUTH CAROLINA
EXPIRATION DATE 12/31/2025
CERTIFICATE OF AUTHORITY

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DRAWING NAME

ELECTRICAL POWER PLAN - SECOND FLOOR

DRAWING NO.

E202

Drawn By: RHV Checked By: SLE



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DRAWING NAME

ELECTRICAL LIGHTING
PLAN - FIRST FLOOR

DRAWING NO.

E301

Drawn By: RHV Checked By: SLE

TRACING & LABELING SCOPE

- THE INTENT OF THIS PROJECT IS TO RECONFIGURE THE EXISTING ELECTRICAL DISTRIBUTION. EXISTING BRANCH CIRCUIT HOMERUNS WILL BE RELOCATED TO THE PROPER SOURCE BASED ON THEIR DESCRIPTIONS AND THE CIRCUIT TRACING SCOPE NOTED BELOW.
- EXISTING CIRCUIT DESCRIPTIONS SHOWN IN THE PANEL SCHEDULES ARE TAKEN FROM THE EXISTING CURRENT PHYSICAL PANEL DIRECTORIES. MANY OF THESE DIRECTORIES CONTAIN OUTDATED AND/OR AMBIGUOUS DESCRIPTIONS, OR ARE OTHERWISE KNOWN TO BE INACCURATE. PRIOR TO CIRCUIT RELOCATION WORK, TRACE ALL CIRCUITS IN EACH AFFECTED EXISTING PANEL AND PROVIDE UPDATED DIRECTORY WITH APPROPRIATE SPECIFIC LOAD DESCRIPTION CLEARLY DISTINGUISHING EACH CIRCUIT FROM ALL OTHERS PER NEC 408.4. FOR CIRCUITS TO BE RELOCATED, DO THIS WORK IN ORDER TO REFLECT PROPER CIRCUIT DESCRIPTIONS IN NEW PANEL.
- TRACE EACH CIRCUIT TO LOAD AND REPLACE ANY EXISTING CIRCUIT LABELS, INCLUDING LABELS AT BREAKERS, ALL JUNCTION BOXES, DISCONNECTS, STARTERS, AND AT THE LOAD ITSELF, WITH NEW LABELING INDICATING THE NEW CIRCUIT.
- LABEL ALL DISCONNECTS, WIRING DEVICES, LIGHTING CONTROLS, LV SYSTEM PANELS, AND OTHER EQUIPMENT FED BY AC POWER WITH PANEL/CIRCUIT. LABEL ITEMS WHETHER SHOWN OR NOT ON THESE PLANS. FIELD DETERMINE ALL EXISTING ITEMS TO BE LABELED.
- FOR EXISTING CIRCUITS WITHOUT AN EQUIPMENT GROUNDING CONDUCTOR (EGC), MAKE GROUND CONNECTION AT CIRCUIT INTERCEPT POINT AND PROVIDE EGC IN CIRCUIT EXTENSION WIRING BACK TO PANEL. FOR THE REMAINING PORTION OF THE CIRCUIT, ENSURE THAT EXISTING CONDUIT USED AS EGC IS BONDED AT JUNCTION BOX PER NEC TO MAINTAIN EGC INTEGRITY.

GENERAL NOTES:

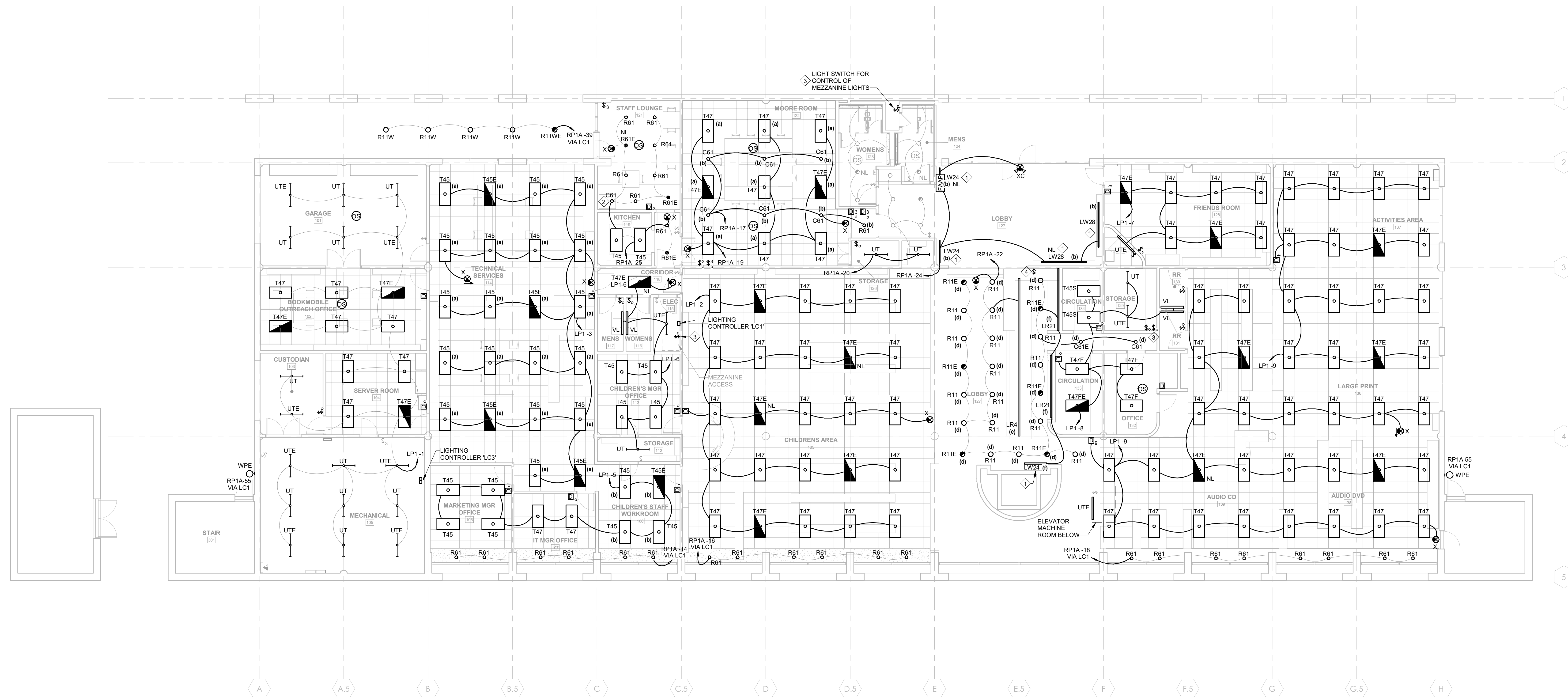
- REFER TO SHEET E900 FOR LIGHTING FIXTURE SCHEDULE.
- EMERGENCY LIGHTS/EXIT SIGNS SHALL BE CONNECTED TO UNSWITCHED HOT CONDUCTOR OF CIRCUIT INDICATED.
- LABEL ALL WIRING DEVICES WITH PANEL/CIRCUIT SERVING DEVICE. REFER TO LABELING DETAIL ON SHEET E001.
- ALL NEW FIXTURES AND DEVICES ARE INDICATED WITH HEAVY LINEWEIGHT. RECONNECT NEW FIXTURES AND DEVICES TO THE EXISTING LIGHTING CIRCUIT SERVING THE SPACE UNO. EXTEND CONDUIT AND WIRING AS NECESSARY TO NEW LOCATIONS. NOTE THE EXISTING CIRCUIT ON THE AS-BUILT DRAWINGS AND LABEL ON DEVICE COVERPLATE.

PLAN NOTES:

- LIGHT FIXTURE MOUNTED AT BOTTOM EDGE OF SOFFIT ABOVE. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
- PROVIDE NEW CONSTRUCTION RECESSED CAN LIGHT FIXTURE. DEMOLISHED LIGHT FIXTURE IN SAME LOCATION IS NOT A RECESSED CAN LIGHT.
- PROVIDE NEW PILOT LIGHT SWITCH AT BOTTOM OF MEZZANINE LADDER TO CONTROL MEZZANINE LIGHTS. RECONNECT TO NEW MEZZANINE LIGHT FIXTURES. SEE E901 FOR MORE INFORMATION.
- PROVIDE SWITCH BANK WITH CONTROLS AS FOLLOWS:

§, D, D, D, D,

- a - LOBBY 127 2ND STORY DOWNLIGHTS
b - LOBBY 127 WALL MOUNTED LINEAR
c - STAIRWAY AND FLOOR LOBBY DOWNLIGHTS
d - LOBBY 127 CIRCULATION DESK DOWNLIGHTS
e - LOBBY 127 4" WIDE RECESSED LINEAR
f - LOBBY 127 2" WIDE RECESSED AND WALL MOUNTED LINEAR



1 ELECTRICAL LIGHTING PLAN - FIRST FLOOR

1/8" = 1'-0"

0 8' 16' 24'

TRACING & LABELING SCOPE

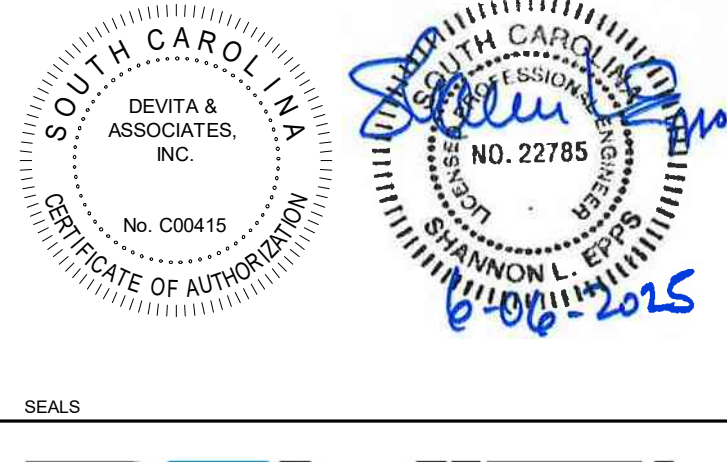
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- TRACE EACH CIRCUIT TO LOAD AND REPLACE ANY EXISTING CIRCUIT LABELS, INCLUDING LABELS AT BREAKERS, ALL JUNCTION BOXES, DISCONNECTS/STARTERS, AND AT THE LOAD ITSELF, WITH NEW LABELING INDICATING THE NEW CIRCUIT.
- LABEL ALL DISCONNECTS, WIRING DEVICES, LIGHTING CONTROLS, LV SYSTEM PANELS, AND OTHER EQUIPMENT FED BY AC POWER WITH PANEL/CIRCUIT. LABEL ITEMS WHETHER SHOWN OR NOT ON THESE PLANS. FIELD DETERMINE ALL EXISTING ITEMS TO BE LABELED.
- FOR EXISTING CIRCUITS WITHOUT AN EQUIPMENT GROUNDING CONDUCTOR (EGC), MAKE GROUND CONNECTION AT CIRCUIT INTERCEPT POINT AND PROVIDE EGC IN CIRCUIT EXTENSION WIRING BACK TO PANEL; FOR THE REMAINING PORTION OF THE CIRCUIT, ENSURE THAT EXISTING CONDUIT USED AS EGC IS BONDED AT JUNCTION BOX PER NEC TO MAINTAIN EGC INTEGRITY.

GENERAL NOTES:

- REFER TO SHEET E900 FOR LIGHTING FIXTURE SCHEDULE.
- EMERGENCY LIGHTS/EXIT SIGNS SHALL BE CONNECTED TO UNSWITCHED HOT CONDUCTOR OF CIRCUIT INDICATED.
- LABEL ALL WIRING DEVICES WITH PANEL/CIRCUIT SERVING DEVICE. REFER TO LABELING DETAIL ON SHEET E001.
- ALL NEW FIXTURES AND DEVICES ARE INDICATED WITH HEAVY LINEWEIGHT. RECONNECT NEW FIXTURES AND DEVICES TO THE EXISTING LIGHTING CIRCUIT SERVING THE SPACE UNO. EXTEND CONDUIT AND WIRING AS NECESSARY TO NEW LOCATIONS. NOTE THE EXISTING CIRCUIT ON THE AS-BUILT DRAWINGS AND LABEL ON DEVICE COVERPLATE.

PLAN NOTES:

- EXISTING DEVICE RELOCATED TO NEW LOCATION.
- TO 3-WAY SWITCH 'C' AT CIRCULATION DESK SWITCHBANK. SEE SHEET E301.
- REFER TO INVERTER WIRING DIAGRAM ON SHEET E800.



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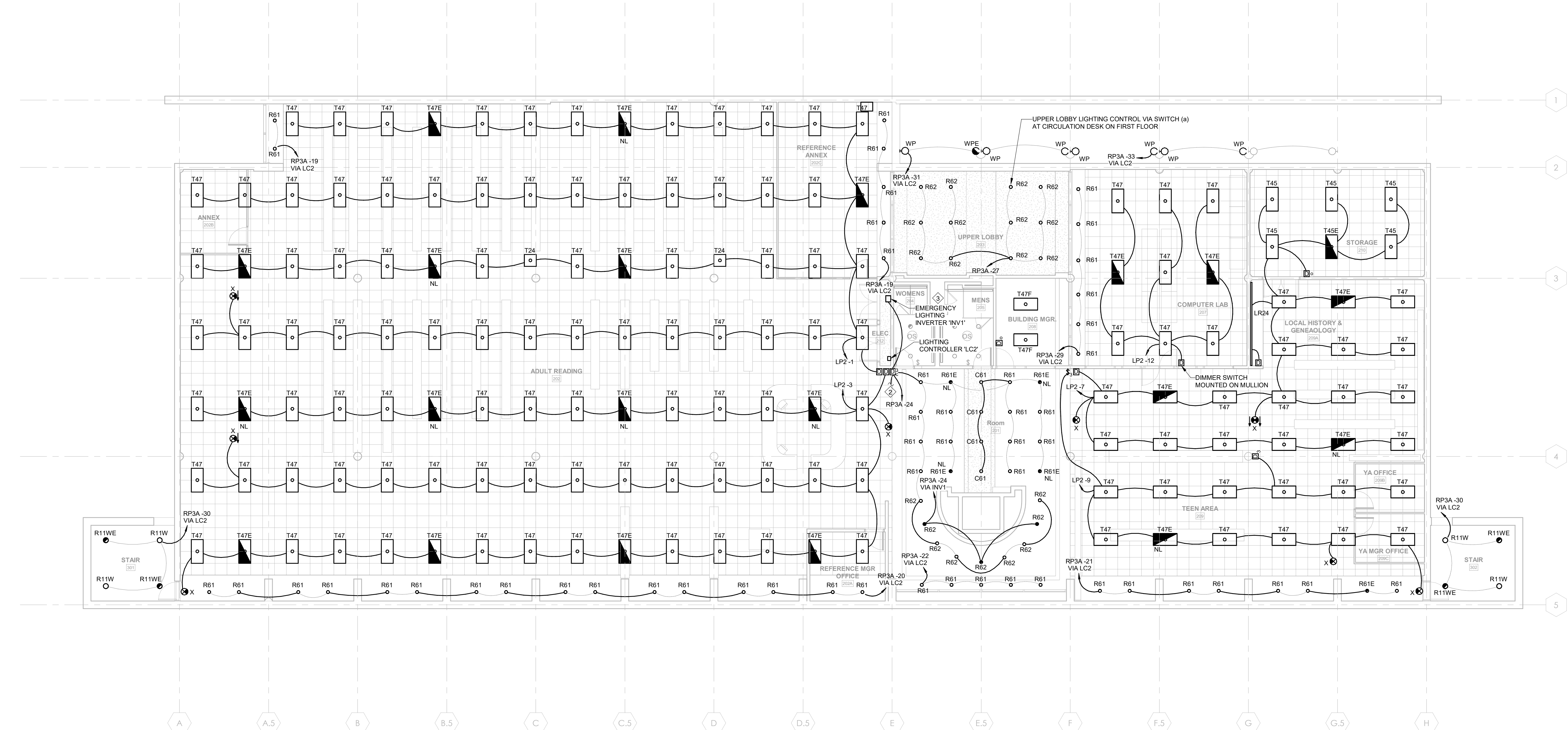
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ELECTRICAL LIGHTING
PLAN - SECOND
FLOOR

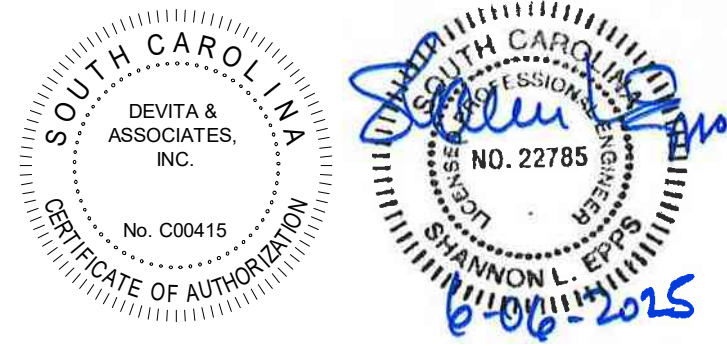
DRAWING NO.

E302

Drawn By: RHV Checked By: SLE



1 ELECTRICAL LIGHTING PLAN - SECOND FLOOR
1/8" = 1'-0"
0 8 16 24



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DRAWING NAME

**ELECTRICAL SYSTEMS
PLAN - FIRST FLOOR**

DRAWING NO.

E401

Drawn By: RHV Checked By: SLE

LOW-VOLTAGE SYSTEM NEW WORK SCOPE:

- A. **GENERAL:** SUPPORT ALL CABLING, EXISTING AND NEW, PER SPECIFICATIONS. LABEL ALL CABLES WITH ADDRESS/DESIGNATION PER YCL REQUIREMENTS.
- B. **FIBER BACKBONE** (EXISTING GREEN CABLE): EXISTING TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.
- C. **VOICE/DATA:** PROVIDE NEW CABLING, JACKS, & FACEPLATES THROUGHOUT AT BOTH EXISTING AND NEW DATA OUTLET LOCATIONS. PROVIDE CABLE DROPS INDICATED. WHERE NEW OUTLETS ARE NOTED, PROVIDE BOX AND CONDUIT IN WALL TO STUB UP ABOVE NEAREST ACCESSIBLE CEILING SPACE.
- D. **WAP'S** (EXISTING YELLOW CABLE): EXISTING TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION. DEVICES/EQUIPMENT TO BE INSTALLED BY YCL.
- E. **SECURITY CAMERAS:** PROVIDE NEW CABLING TO BISCUIT JACK ABOVE CEILING AT DEVICE LOCATION. FOR HARD CEILINGS OR EXTERIOR LOCATIONS, PROVIDE BOX WITH JACK IN CEILING OR WALL AS REQUIRED BY THE LOCATION. DEVICES/EQUIPMENT TO BE INSTALLED BY YCL.
- F. **SECURITY MOTION DETECTORS:** PROVIDE NEW CABLING TO BISCUIT JACK ABOVE CEILING AT DEVICE LOCATION. DEVICES/EQUIPMENT TO BE INSTALLED BY YCL.
- G. **AV SYSTEMS (HDMI):** PROVIDE NEW CABLING, JACKS, & FACEPLATES THROUGHOUT. REUSE EXISTING OUTLET LOCATIONS (BOX & CONDUIT) UNLESS NOTED OTHERWISE. DEVICES/EQUIPMENT TO BE INSTALLED BY YCL PRIOR TO WORK.
- H. **FIRE ALARM:** PROVIDE NEW DEVICES AND CABLING THROUGHOUT UNLESS NOTED OTHERWISE.
- I. **PAGING:** PROVIDE NEW DEVICES AND CABLING THROUGHOUT UNLESS NOTED OTHERWISE.

GENERAL NOTES:

- A. NUMBER OF DATA DROPS REQUIRED AT EACH DATA OUTLET IS 1 UNLESS NOTED OTHERWISE.
- B. REFER ALSO TO LOW-VOLTAGE RESPONSIBILITY MATRIX ON SHEET E900.

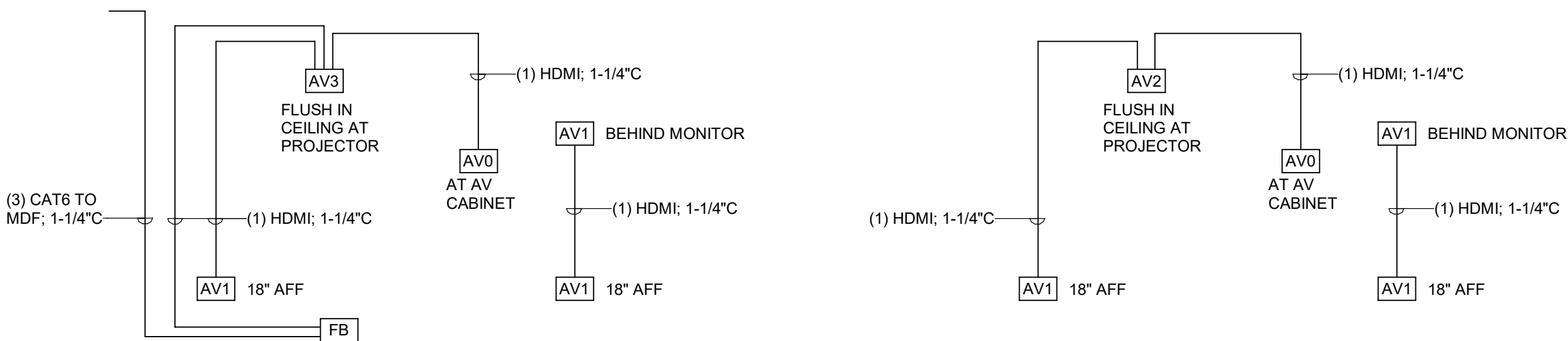
PLAN NOTES:

- MOUNT NEW PAGING AMPLIFIER IN MDF RACK.
- NEW DEVICE LOCATION. PROVIDE RACEWAY IN WALL.
- SEE AV RISER DIAGRAMS ON THIS SHEET FOR CONDUIT SIZES.
- REPLACE EXISTING F.A. DEVICES IN ELEVATOR MACHINE ROOM. PROVIDE ALL REQUIRED CONNECTIONS FOR ELEVATOR RECALL AND FIREMAN'S HAT LIGHT.
- COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.

AV RISER DIAGRAM GENERAL NOTES:

- A. ALL CABLING SHALL BE PLENUM RATED.
- B. ROUTE CONDUITS FROM OUTLET BOX TO NEAREST ACCESSIBLE CEILING SPACE AND PROVIDE NYLON BUSHING ON END OF CONDUIT STUB.
- C. COORDINATE EXACT LOCATION OF DEVICES AT MONITORS AND PROJECTORS WITH OWNER AND EQUIPMENT PRIOR TO ROUGH-IN.

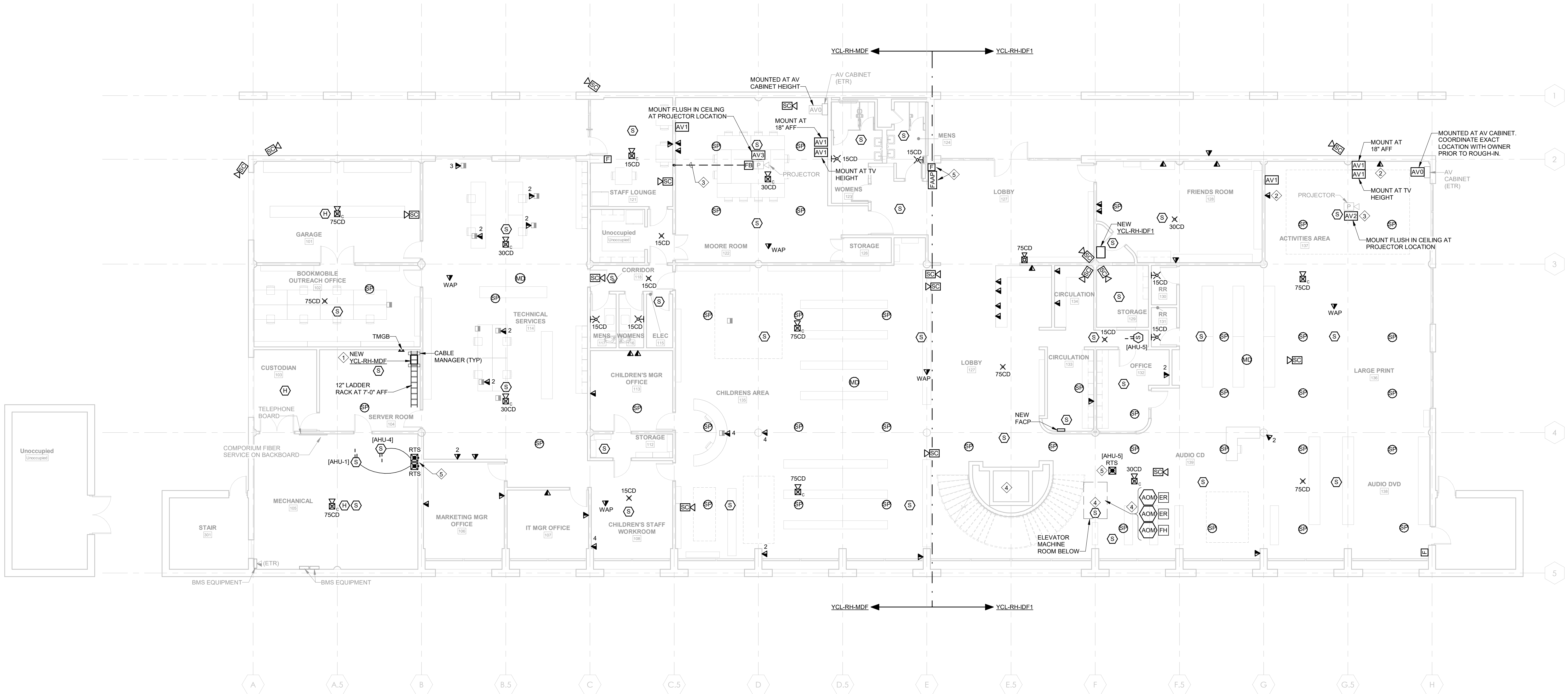
AV0	HDMI BOX WITH BRUSH PLATE, DIRECT CONNECT TO EQUIPMENT
AV1	HDMI (1 JACK)
AV2	HDMI (2 JACK)
AV3	HDMI (3 JACK)



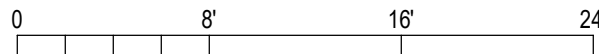
AV RISER DIAGRAM - MOORE ROOM

AV RISER DIAGRAM - ACTIVITIES AREA

3 AV RISER DIAGRAMS
E401 NOT TO SCALE



1 ELECTRICAL SYSTEMS PLAN - FIRST FLOOR
E401
1/8" = 1'-0"



LOW-VOLTAGE SYSTEM NEW WORK SCOPE:

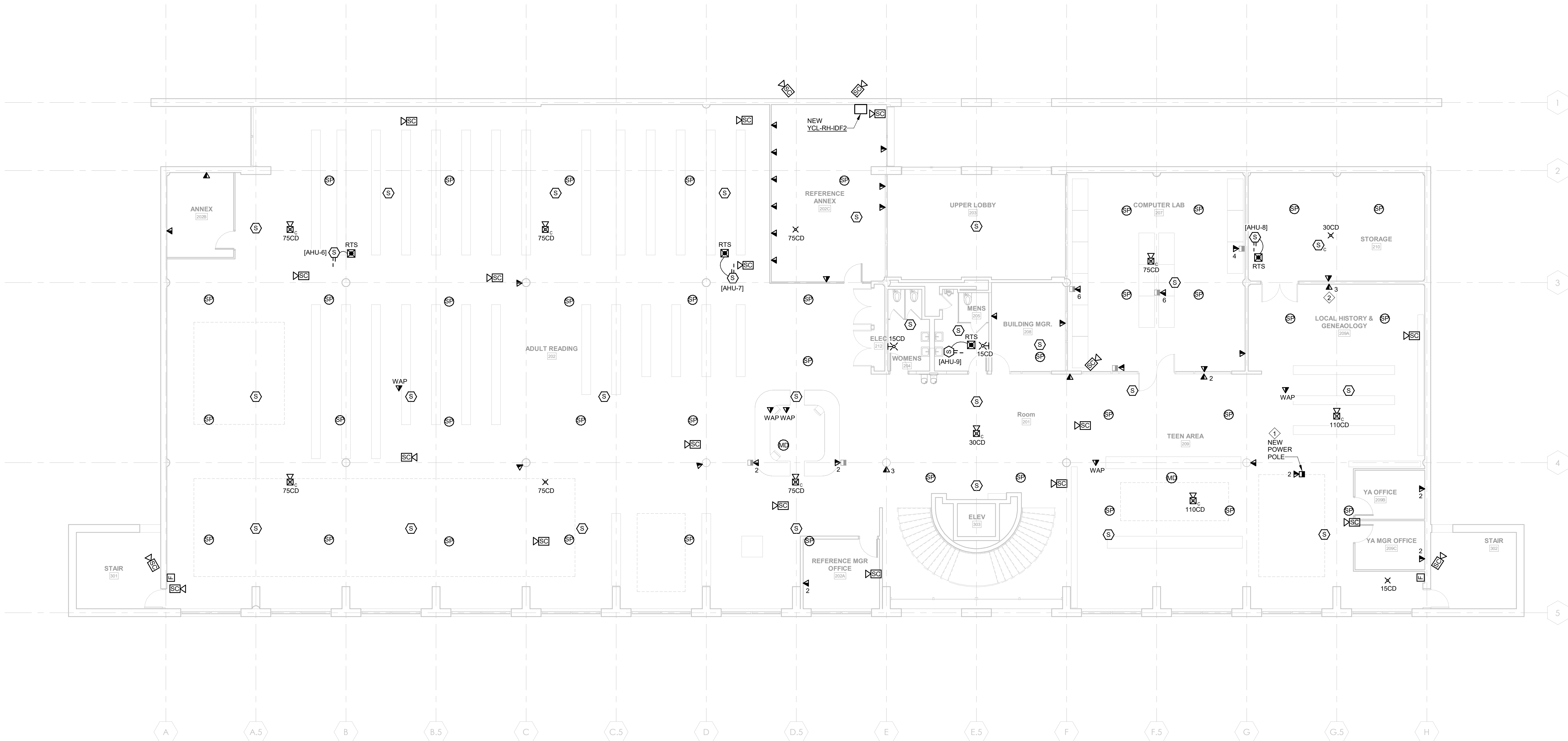
- A. **GENERAL:** SUPPORT ALL CABLING, EXISTING AND NEW, PER SPECIFICATIONS. LABEL ALL CABLES WITH ADDRESS/DESIGNATION PER YCL REQUIREMENTS.
- B. **FIBER BACKBONE** (EXISTING GREEN CABLE): EXISTING TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.
- C. **VOICE/DATA:** PROVIDE NEW CABLING, JACKS, & FACEPLATES THROUGHOUT AT BOTH EXISTING AND NEW DATA OUTLET LOCATIONS. PROVIDE CABLE DROPS INDICATED. WHERE NEW OUTLETS ARE NOTED, PROVIDE BOX AND CONDUIT IN WALL TO STUB UP ABOVE NEAREST ACCESSIBLE CEILING SPACE.
- D. **WAP'S** (EXISTING YELLOW CABLE): EXISTING TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION. DEVICES/EQUIPMENT TO BE INSTALLED BY YCL.
- E. **SECURITY CAMERAS:** PROVIDE NEW CABLING TO BISCUIT JACK ABOVE CEILING AT DEVICE LOCATION. FOR HARD CEILINGS OR EXTERIOR LOCATIONS, PROVIDE BOX WITH JACK IN CEILING OR WALL AS REQUIRED BY THE LOCATION. DEVICES/EQUIPMENT TO BE INSTALLED BY YCL.
- F. **SECURITY MOTION DETECTORS:** PROVIDE NEW CABLING TO BISCUIT JACK ABOVE CEILING AT DEVICE LOCATION. DEVICES/EQUIPMENT TO BE INSTALLED BY YCL.
- G. **AV SYSTEMS (HDMI):** PROVIDE NEW CABLING, JACKS, & FACEPLATES THROUGHOUT. REUSE EXISTING OUTLET LOCATIONS (BOX & CONDUIT) UNLESS NOTED OTHERWISE. DEVICES/EQUIPMENT TO BE INSTALLED BY YCL PRIOR TO WORK.
- H. **FIRE ALARM:** PROVIDE NEW DEVICES AND CABLING THROUGHOUT UNLESS NOTED OTHERWISE.
- I. **PAGING:** PROVIDE NEW DEVICES AND CABLING THROUGHOUT UNLESS NOTED OTHERWISE.

GENERAL NOTES:

- A. NUMBER OF DATA DROPS REQUIRED AT EACH NEW DATA OUTLET IS 1 UNLESS NOTED OTHERWISE.
- B. REFER ALSO TO LOW-VOLTAGE RESPONSIBILITY MATRIX ON SHEET E900.

PLAN NOTES:

1. COORDINATE EXACT LOCATION OF NEW POWER POLE WITH OWNER PRIOR TO ROUGH-IN.
2. EXISTING DEVICE RELOCATED TO 18" A.F.F.



1
E402
1/8" = 1'-0"
0 8' 16' 24'



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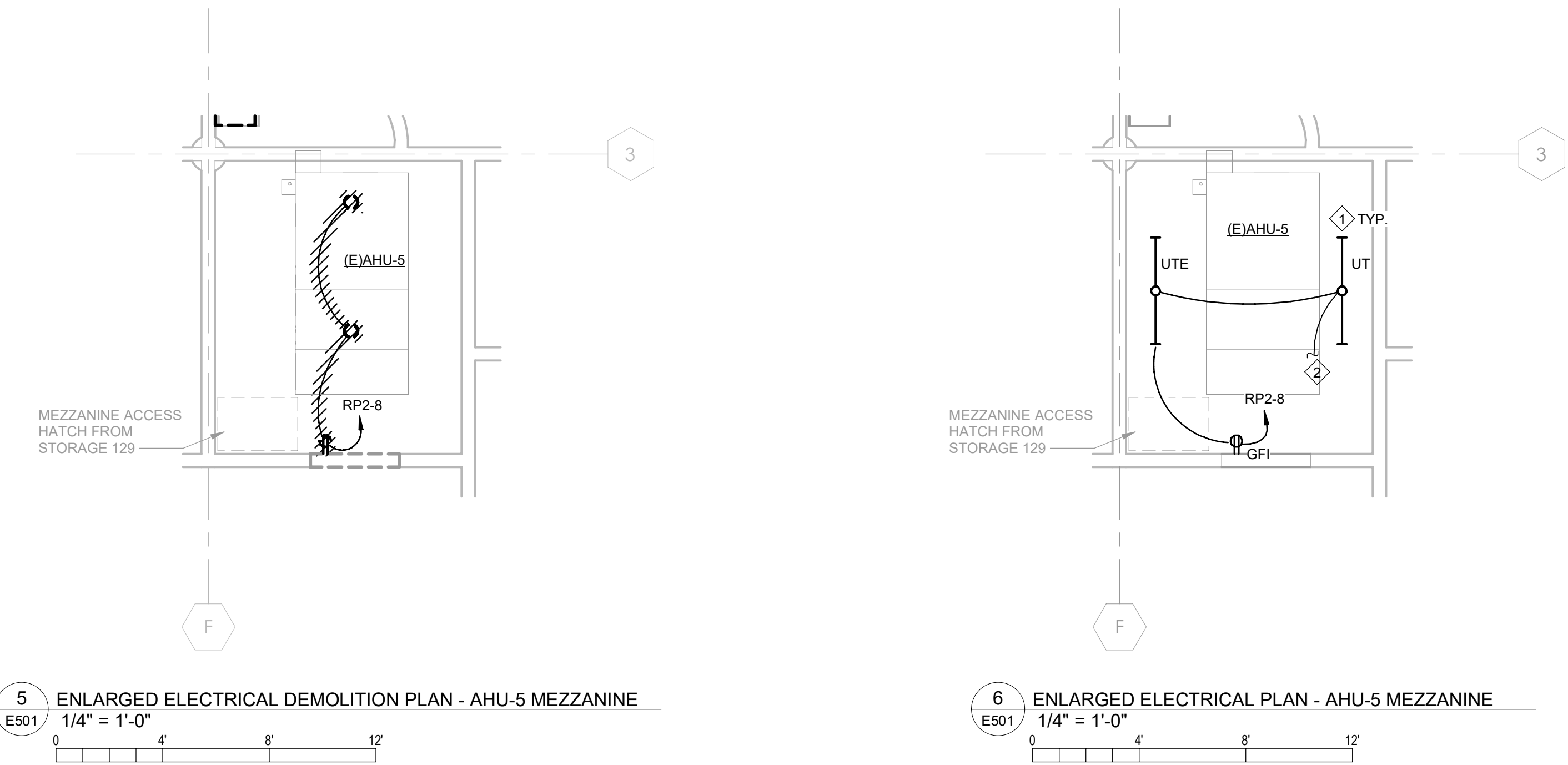
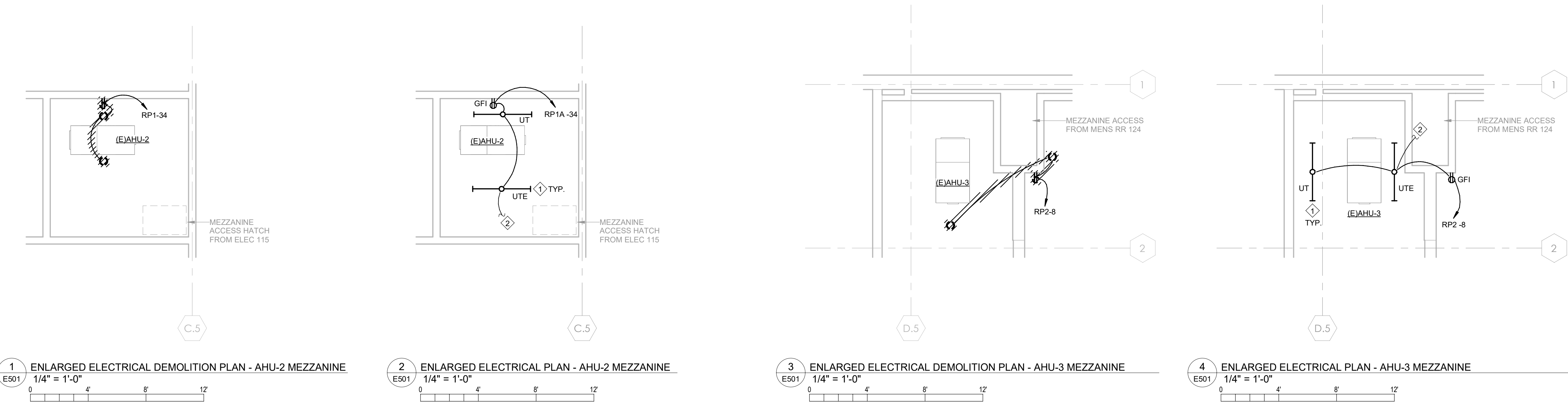
DRAWING NAME

**ELECTRICAL SYSTEMS
PLAN - SECOND
FLOOR**

DRAWING NO.

E402

Drawn By: RHV Checked By: SLE



GENERAL DEMOLITION NOTES:

- A. FOR ALL EXISTING EQUIPMENT, DEVICES, ETC. INDICATED TO REMAIN, FIELD VERIFY THE EXISTING CIRCUIT, AND PROVIDE NEW LABEL ON DEVICE PLATE WITH CORRECT PANEL/CIRCUIT. REFER TO LABELING DETAIL ON SHEET E001.
- B. ITEMS TO BE REMOVED ARE INDICATED BY DASHED LINETYPE AND/OR HATCHING.
- C. FOR DEVICES, FIXTURES, ETC. TO BE REMOVED, THEY AND THEIR RELATED WIRING/CONDUIT SHALL BE REMOVED BACK TO THE SOURCE PANELBOARD, UNLESS OTHERWISE NOTED. ON CIRCUITS WHERE OTHER DEVICES, FIXTURES, ETC. ARE FOUND THAT MUST REMAIN, MAINTAIN CIRCUIT CONTINUITY BY PROVIDING ADDITIONAL WIRING TO FEED THROUGH TO THESE REMAINING ITEMS. RE-CIRCUIT ANY REMAINING DEVICES AS REQUIRED TO AVAILABLE PANELBOARD SPACE. RELOCATE ANY CIRCUITS THAT REMAIN TO AVOID CONFLICT WITH NEW CONSTRUCTION AS REQUIRED. PROPERLY TERMINATE ALL WIRING.
- D. EXISTING CIRCUITS INDICATED ARE FOR REFERENCE ONLY. FIELD VERIFY ALL AFFECTED CIRCUITS.
- E. REROUTING OF EXISTING CONDUCTORS MAY BE REQUIRED AT NEW OPENINGS IN EXISTING CONSTRUCTION OR AROUND NEW WORK.

PLAN NOTES:

1. COORDINATE LOCATION OF FIXTURE WITH DUCTWORK AND PIPING TO PROVIDE OPTIMAL LIGHTING FOR EQUIPMENT.
2. CONTROL OF MEZZANINE LIGHTS TO BE RELOCATED TO BOTTOM OF LADDER ACCESS. SEE E301 FOR MORE INFORMATION.



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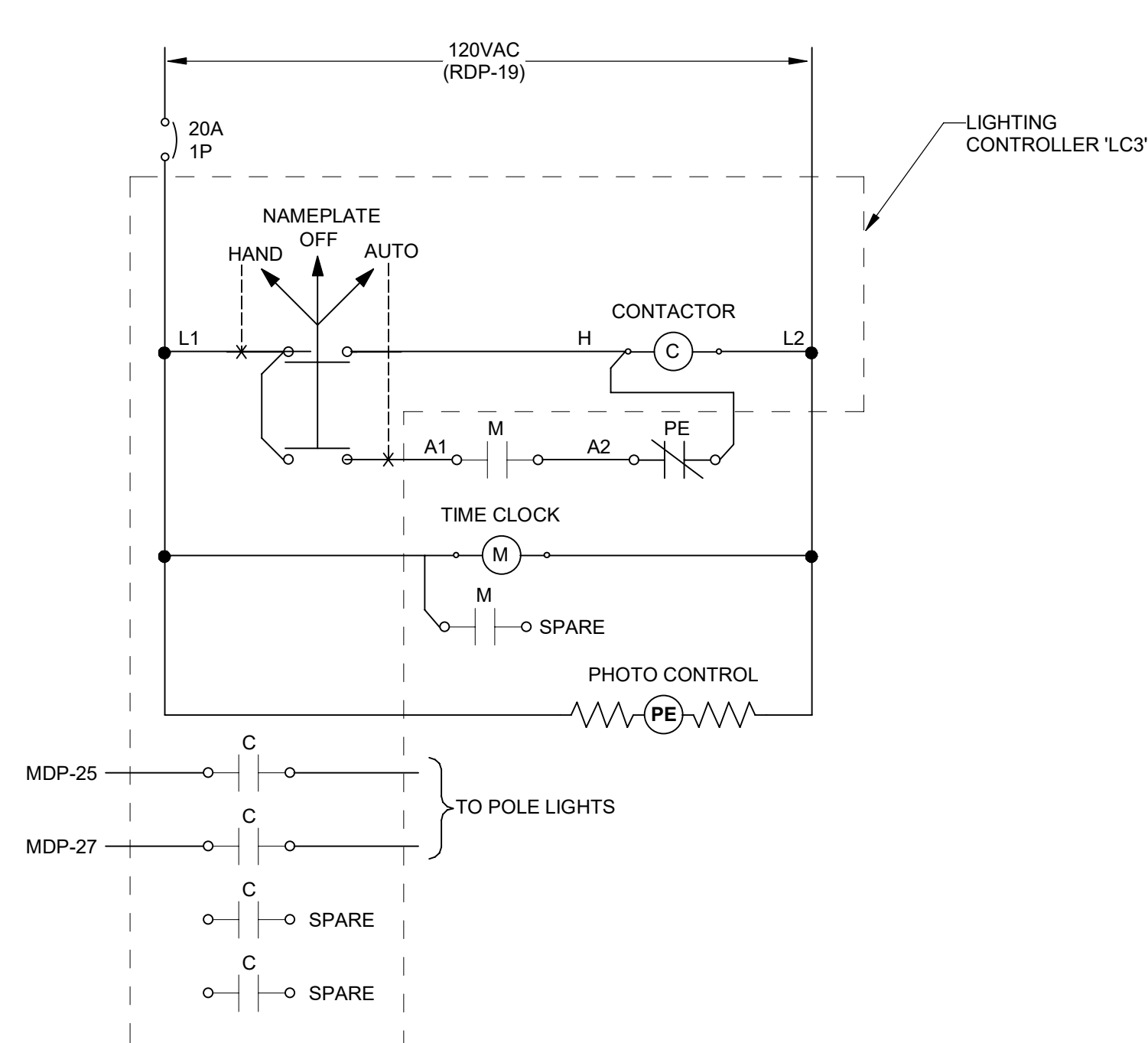
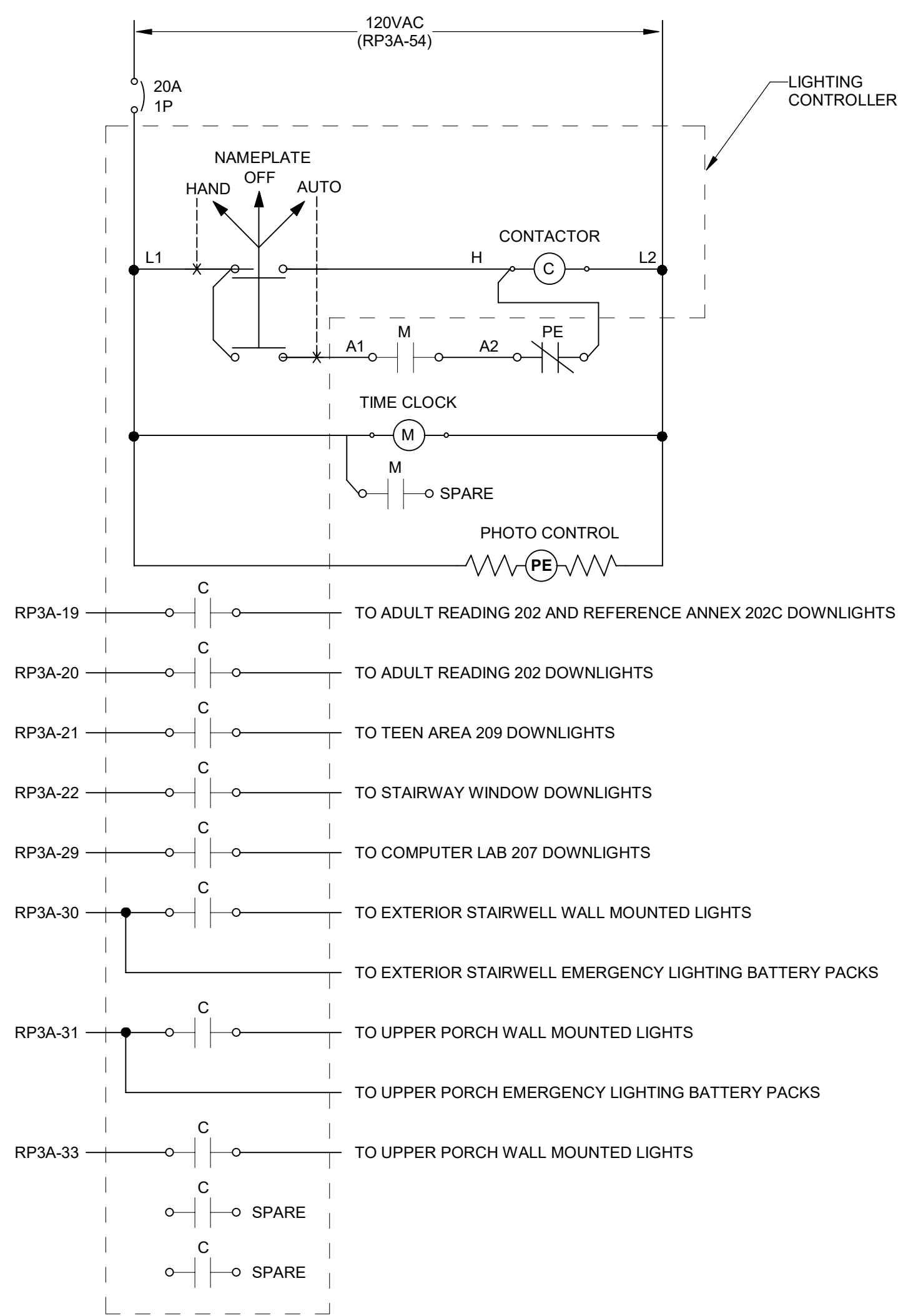
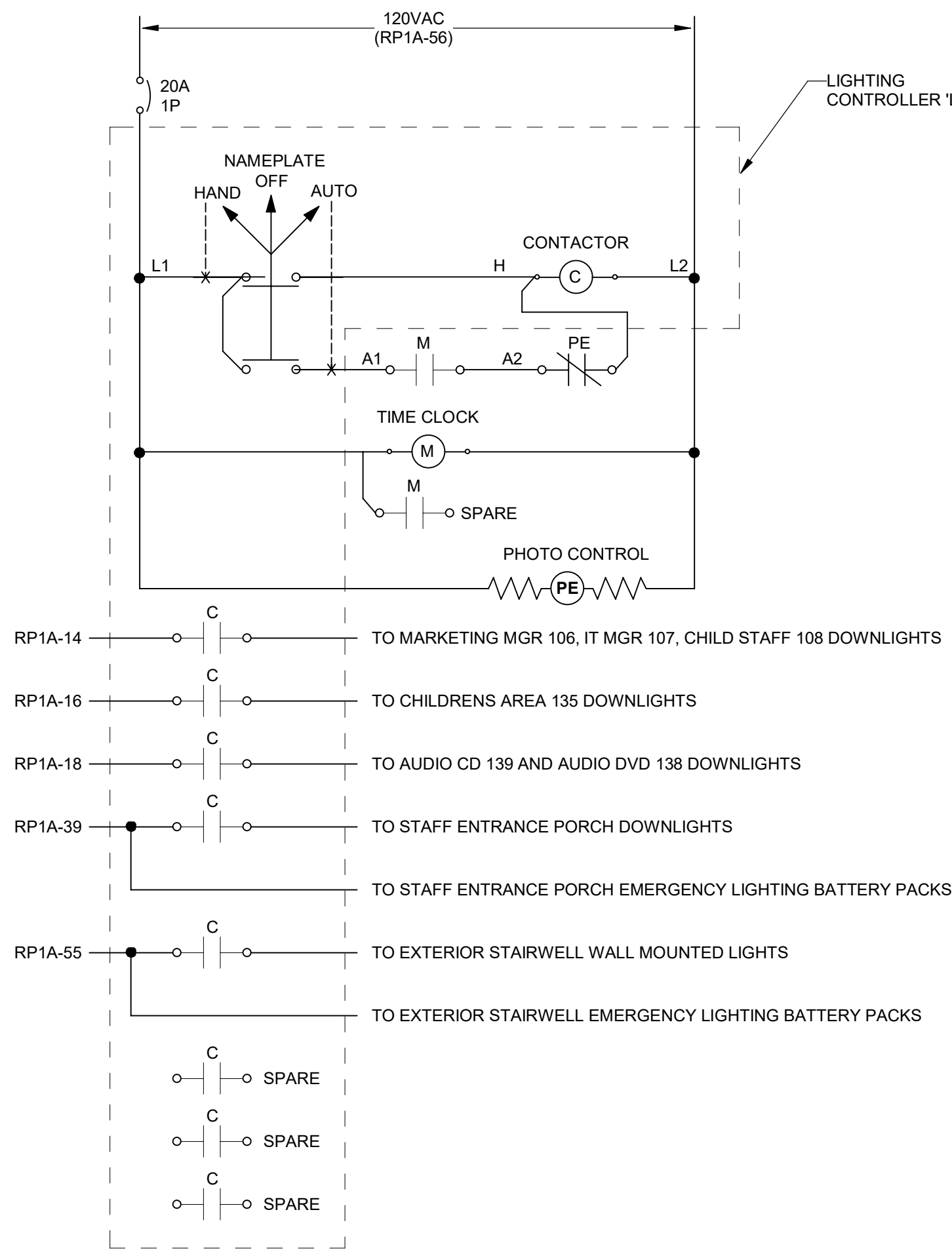
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DRAWING NAME
**ENLARGED
ELECTRICAL
MEZZANINE PLANS**

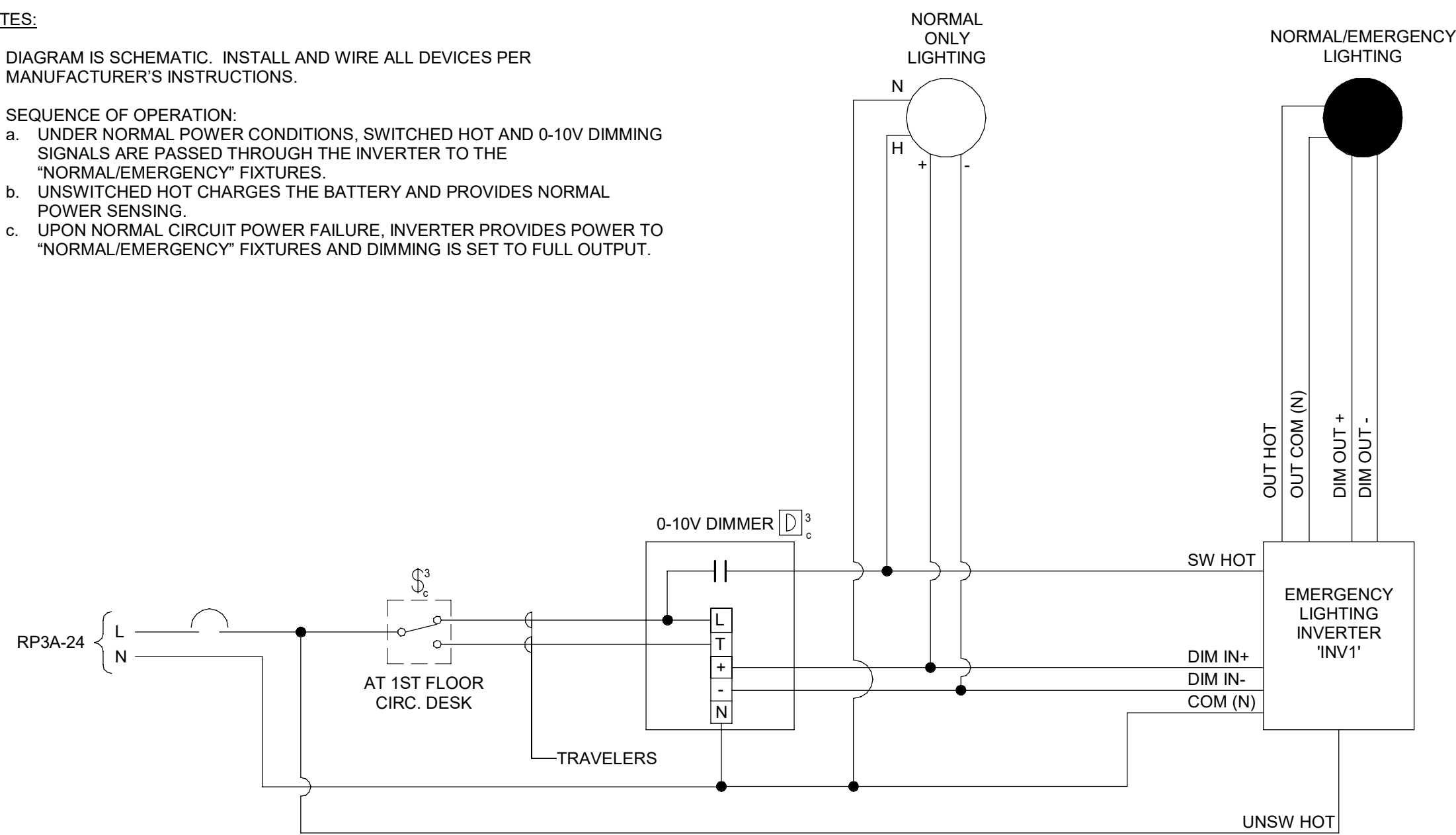
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E501
Drawn By: RHV Checked By: SLE



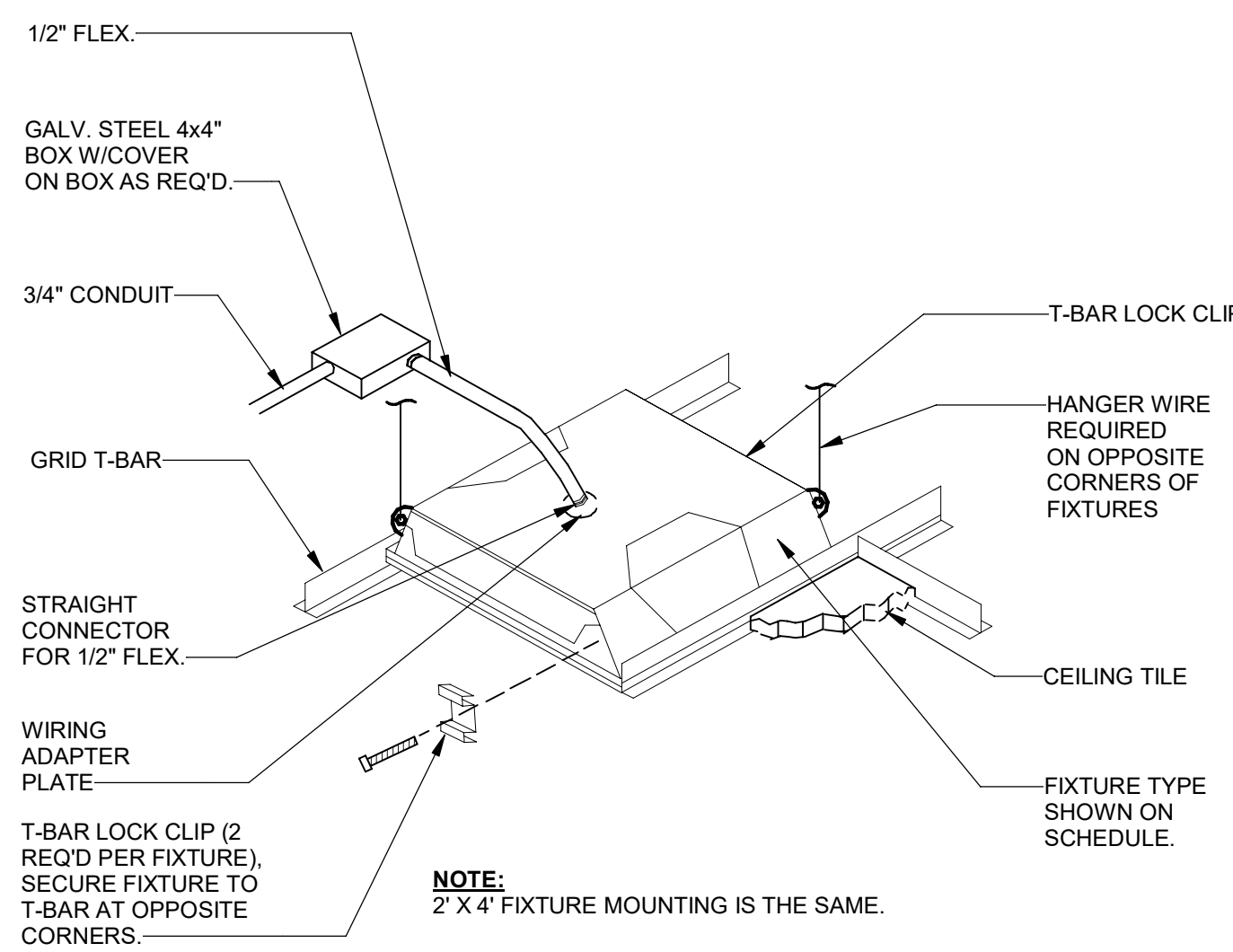
- NOTES:**
1. LIGHTING CONTROLLERS SHALL BE IN A NEMA TYPE 1 ENCLOSURE SIZED AS REQUIRED. PROVIDE ENGRAVED NAMEPLATE ON DOOR.
 2. H-O-A SWITCH SHALL BE SQUARE D # 9001KS43B, OIL TIGHT TYPE OR APPROVED EQUAL. MOUNT SWITCH ON DOOR AND PROVIDE NAMEPLATE ENGRAVED AS SHOWN.
 3. CONTACTOR SHALL BE SQUARE D CLASS 8903 TYPE L ELECTRICALLY HELD LIGHTING CONTACTOR OR APPROVED EQUAL. CONTACTS SHALL BE 30A CONTINUOUS RATED, QUANTITY AS INDICATED. PROVIDE COIL VOLTAGE AS INDICATED AND MINIMUM TWO (2) SPARE POLES.
 4. TIME CLOCK SHALL BE TORK CAT. NO. EWZ103, DPST, 7DAY, 120V, ELECTRONIC TIME CLOCK WITH 7 DAY CARRYOVER OR APPROVED EQUAL.
 5. PHOTO CONTROL SHALL BE ELECTRONIC SWIVEL & STEM TYPE, DUSK-TO-DAWN, FAIL ON, SPST, RATED FOR 6A ELECTRONIC FIXTURE LOAD, 1800 VA BALLAST LOAD, WITH VOLTAGE AS INDICATED, INTERMATIC EK4236S OR APPROVED EQUAL. MOUNT ON CONDUIT AT HIGHEST PRACTICAL POINT FACING NORTH.
 6. LOCATE CONTROLLER ADJACENT TO PANELBOARD OR AS SHOWN ON PLANS.

1 LIGHTING CONTROLLER DETAILS
NOT TO SCALE

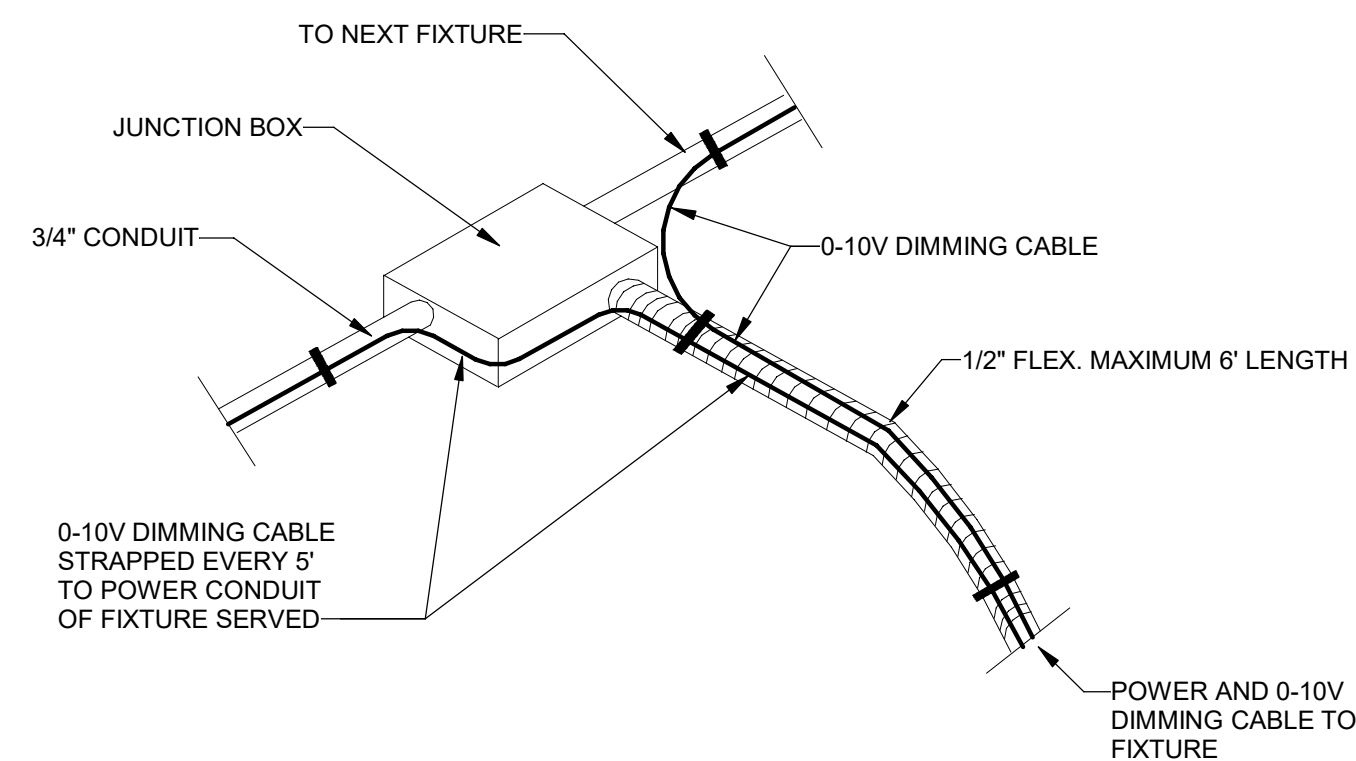
- NOTES:**
1. DIAGRAM IS SCHEMATIC. INSTALL AND WIRE ALL DEVICES PER MANUFACTURER'S INSTRUCTIONS.
 2. SEQUENCE OF OPERATION:
 - a. UNDER NORMAL POWER CONDITIONS, SWITCHED HOT AND 0-10V DIMMING SIGNALS ARE PASSED THROUGH THE INVERTER TO THE "NORMAL/EMERGENCY" FIXTURES.
 - b. UNSWITCHED HOT CHARGES THE BATTERY AND PROVIDES NORMAL POWER SENSING.
 - c. UPON NORMAL CIRCUIT POWER FAILURE, INVERTER PROVIDES POWER TO "NORMAL/EMERGENCY" FIXTURES AND DIMMING IS SET TO FULL OUTPUT.



2 EMERGENCY LIGHTING INVERTER 'INV1' SCHEMATIC DIAGRAM
NOT TO SCALE



3 TYPICAL RECESSED FIXTURE MOUNTING
NOT TO SCALE



- THIS METHOD IS ACCEPTABLE ONLY WHERE EXISTING POWER WIRING WILL REMAIN.**
- ALL 0-10V DIMMING WIRING SHALL BE A SINGLE BELDEN # 2179LP (OR EQUAL) CABLE TO EACH FIXTURE. PROVIDE AN ADDITIONAL 3/4\"/>

4 0-10V DIMMING WIRING DETAIL - EXISTING POWER TO REMAIN
NOT TO SCALE



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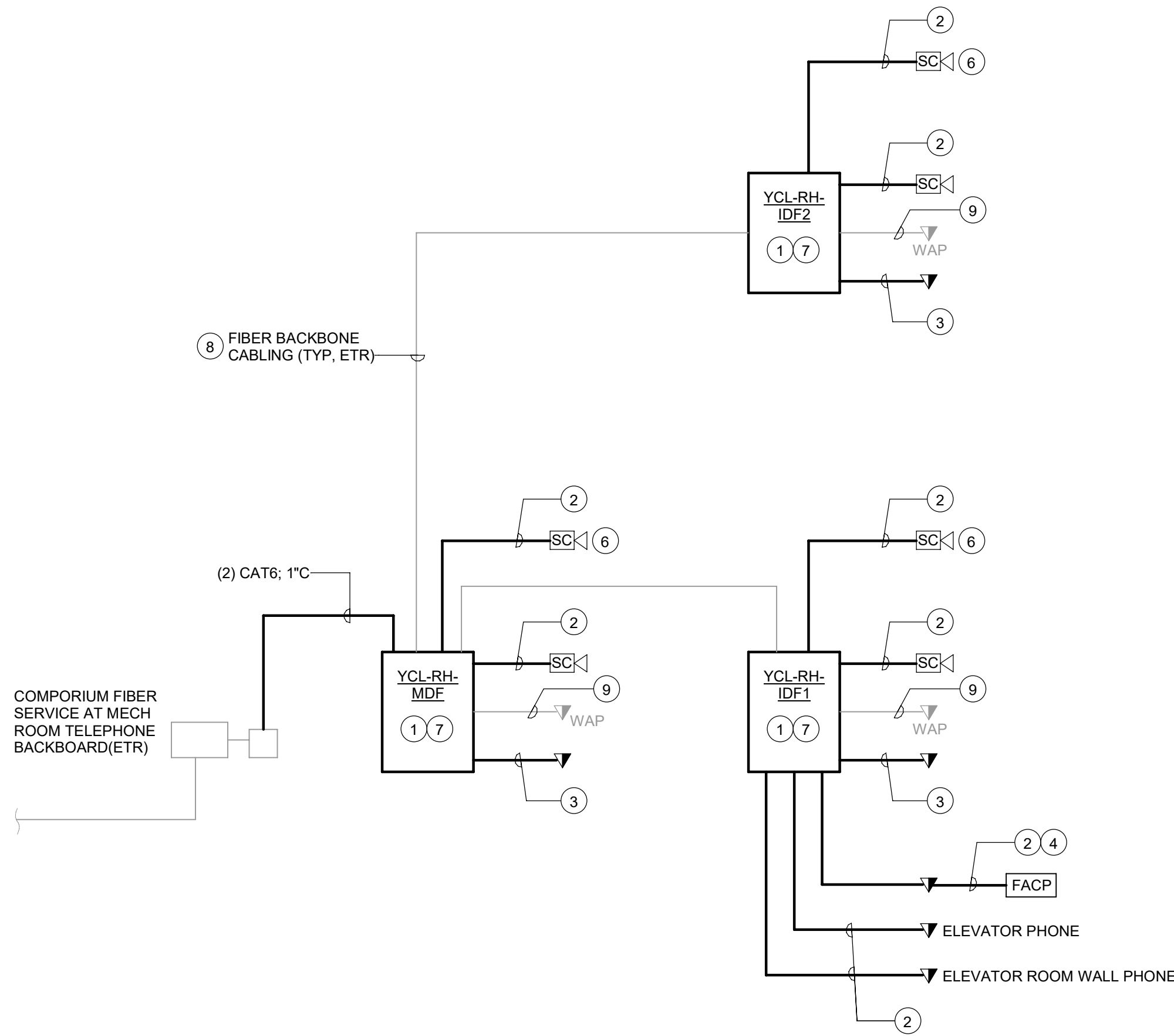
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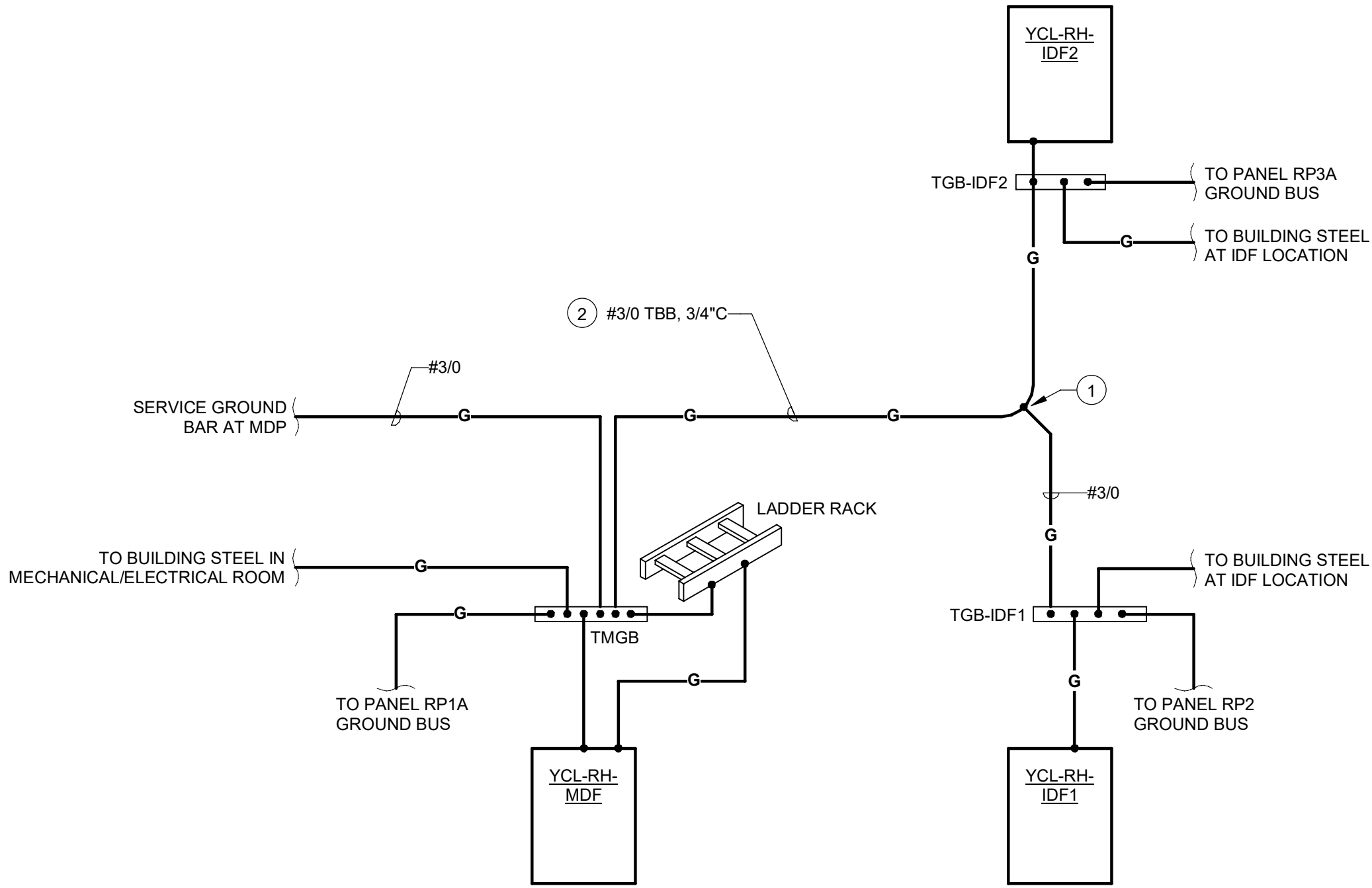
1 TELECOM RISER DIAGRAM
E801 NOT TO SCALE

TELECOM RISER DIAGRAM GENERAL NOTES:

- THIS RISER REPRESENTS TYPICAL SYSTEM REQUIREMENTS. NOT ALL DEVICES ARE SHOWN. REFER TO PLANS FOR EXACT DEVICE QUANTITIES AND TYPES.
- ALL WORK AND MATERIALS SHALL COMPLY WITH YORK COUNTY LIBRARY IT DEPARTMENT REQUIREMENTS.
- ALL LOW VOLTAGE CABLING SHALL BE ROUTED TO EQUIPMENT CABINETS WITHOUT SPLICES OR JUNCTIONS. CONTINUOUS CABLING IS REQUIRED.
- REFER TO RESPONSIBILITY MATRIX ON SHEET E900 FOR DIVISION OF RESPONSIBILITIES.
- PROVIDE PULL STRINGS IN ALL EMPTY AND BACKBONE CONDUITS FOR FUTURE CABLING.
- CABLING RUNS ALONG COMMON PATHS MAY BE COMBINED INTO COMMON CONDUIT. CONDUITS SHALL BE SIZED TO COMPLY WITH NEC 40% FILL LIMITATIONS.

TELECOM RISER KEY NOTES: #

- PROVIDE EQUIPMENT RACKS PER DRAWINGS AND SPECIFICATIONS.
- PROVIDE (1) CAT6 DROP IN 1'C TO EACH DEVICE.
- PROVIDE QUANTITY OF CAT6 DROPS IN 1'C TO EACH DEVICE AS NOTED ON PLANS.
- PROVIDE DEDICATED LINES FOR FACP PER FIRE ALARM RISER DIAGRAM AND SPECIFICATIONS.
- PROVIDE (1) CAT 6 DROP TO ELEVATOR CONTROL CABINET FOR INTERFACE WITH ELEVATOR PHONE AND TRAVELING CABLE. COORDINATE EXACT REQUIREMENTS WITH EXISTING ELEVATOR.
- PROVIDE SPD AT THE CAMERA LOCATION FOR EACH CAMERA MOUNTED OUTDOORS. SPD SHALL BE DITEK #0TK-MR100ES. INSTALL SPD AND PROVIDE GROUNDING PER MANUFACTURER'S INSTRUCTIONS.
- PROVIDE RACK-MOUNTED SPD FOR ALL CAMERA CIRCUITS. SPD SHALL BE DITEK #0TK-RM2NETS. PROVIDE QUANTITY REQUIRED TO COVER ALL CAMERAS. INSTALL SPD AND PROVIDE GROUNDING PER MANUFACTURER'S INSTRUCTIONS.
- EXISTING FIBER BACKBONE TO REMAIN. PROTECT DURING CONSTRUCTION. PROVIDE SUPPORT FOR UNSUPPORTED CABLING AND LABEL PER OWNER'S REQUIREMENTS.
- EXISTING WAP CABLING TO REMAIN. PROTECT DURING CONSTRUCTION. PROVIDE SUPPORT FOR UNSUPPORTED CABLING AND LABEL PER OWNER'S REQUIREMENTS.



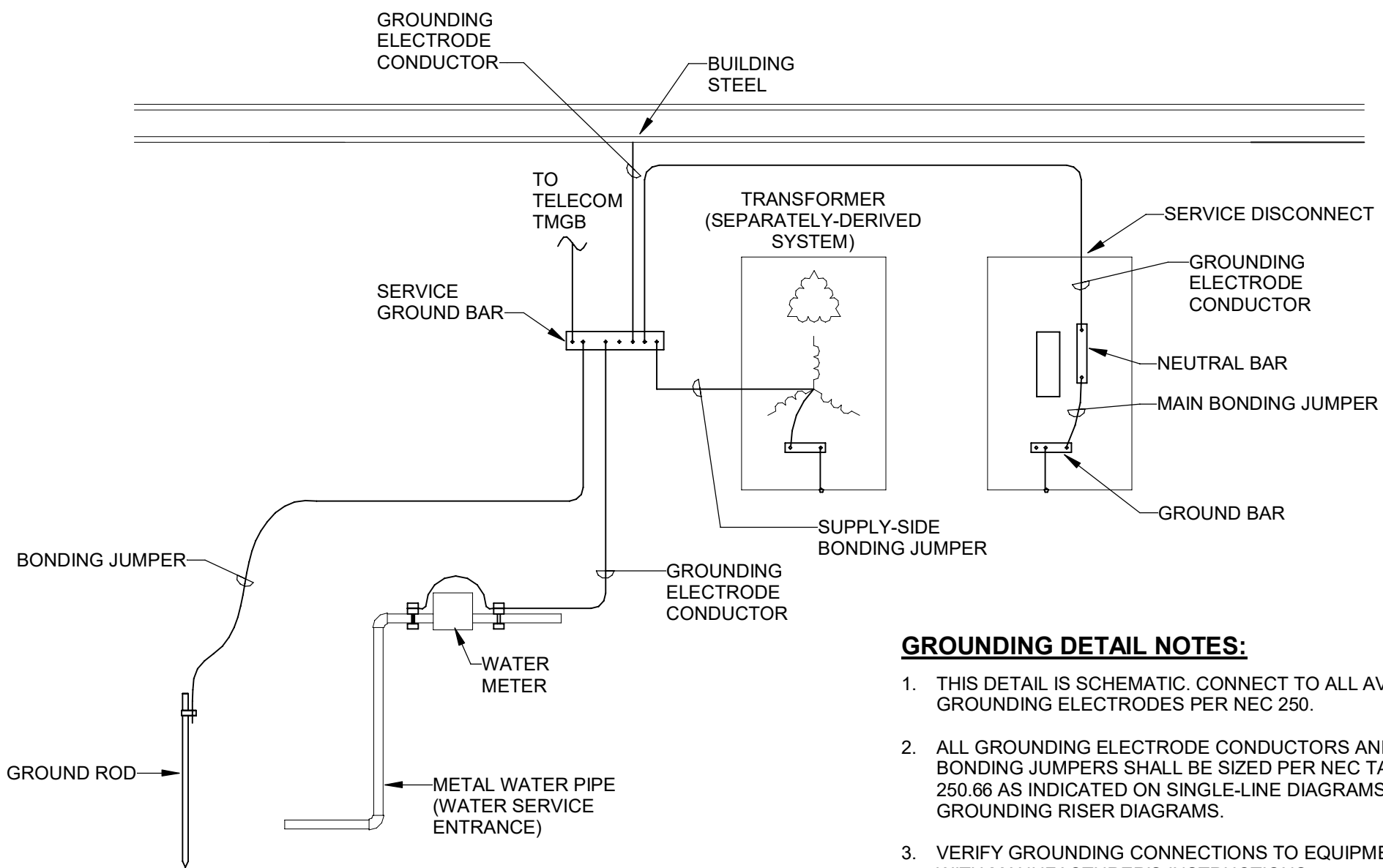
2 TELECOM GROUNDING RISER DIAGRAM
E801 NOT TO SCALE

GROUNDING RISER DIAGRAM GENERAL NOTES:

- ALL GROUNDING AND BONDING JUMPERS ARE #6 UNO.
- ALL CONDUCTORS SHALL BE ROUTED IN 3/4" BETWEEN GROUND BARS AND WHERE EXPOSED.

GROUNDING RISER KEY NOTES: #

- MAKE BOND IN LABELED JBOX.
- TELECOM BONDING BACKBONE (TBB) SHALL BE CONTINUOUS FROM TMGB TO TGB-IDF2.



GROUNDING DETAIL NOTES:

- THIS DETAIL IS SCHEMATIC. CONNECT TO ALL AVAILABLE GROUNDING ELECTRODES PER NEC 250.
- ALL GROUNDING ELECTRODE CONDUCTORS AND BONDING JUMPERS SHALL BE SIZED PER NEC TABLE 250.66 AS INDICATED ON SINGLE-LINE DIAGRAMS AND GROUNDING RISER DIAGRAMS.
- VERIFY GROUNDING CONNECTIONS TO EQUIPMENT WITH MANUFACTURER'S INSTRUCTIONS.

3 TYPICAL SERVICE GROUNDING DETAIL
E801 NOT TO SCALE



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DRAWING NAME

ELECTRICAL DETAILS

DRAWING NO.

E801

Drawn By: RHV

Checked By: SLE

LIGHTING FIXTURE SCHEDULE							
FIXTURE MARK	FIXTURE DESCRIPTION	LAMP TYPE AND LUMENS	VOLTAGE	FIXTURE WATTS	MOUNTING METHOD AND HEIGHT	ACCEPTABLE MANUFACTURERS	REMARKS
C61	6" LED DOWNLIGHT, WIDE BEAM HYPERBOLIC REFLECTOR, CLEAR SEMI-SPECULAR FINISH, 1% MINIMUM 0-10V DIMMING	LED 3500°K 1300 LUMENS	120/277	12	CEILING RECESSED	MANUF: INDY PART # L6 13LM 35K MVOLT G4 80CRI E21 HW CSS OR EQUAL BY ELITE LIGHTING OR GOTHAM	
C61E	SAME AS TYPE 'C61' EXCEPT WITH INTEGRAL 600 LUMEN EMERGENCY BATTERY PACK WIREMOTO TEST SWITCH, UL924 LISTED.	LED 3500°K 1300 LUMENS	120/277	12	CEILING RECESSED	MANUF: INDY PART # L6 13LM 35K MVOLT G4 80CRI E21 BR HW CSS OR EQUAL BY ELITE LIGHTING OR GOTHAM	
INV1	EMERGENCY LIGHTING INVERTER FOR STARWELL LIGHTING, 250VA MAX, SINGLE-PHASE, 120/277V INPUT, PURE SINE WAVE OUTPUT, UL924 LISTED, NEMA 1 ENCLOSURE, LOW VOLTAGE BATTERY DISCONNECT, INTEGRATED LED TEST SWITCH, MINIMUM 3 YEAR WARRANTY		120/277	-	-	MANUF: BODINE PART # ELI-S-250 OR EQUAL BY MYERS OR LITHONIA	5
LR21	11" LINEAR RECESSED, 2" WIDE APERTURE, EXTRUDED ALUMINUM BODY, DIE-FORMED 20-GAUGE COLD-ROLLED STEEL REFLECTOR, FLUSH LENS, 1% MINIMUM 0-10V DIMMING	LED 3500°K 336 LUMENS/FT	120	3.6W/FT	CEILING RECESSED	MANUF: FINELITE PART # H2 R D 14 S 835 F 96LG 120 SC FC-1% SW OR EQUAL BY HE WILLIAMS OR SELUX	3, 4
LR24	SAME AS TYPE 'LR21' EXCEPT 14" LONG AND 27TV	LED 3500°K 336 LUMENS/FT	277	3.6W/FT	CEILING RECESSED	MANUF: FINELITE PART # H2 R D 14 S 835 F 96LG 277 SC FC-1% SW OR EQUAL BY HE WILLIAMS OR SELUX	3, 4
LR4	28" LINEAR RECESSED, 4" WIDE APERTURE, EXTRUDED ALUMINUM BODY, DIE-FORMED 20-GAUGE COLD-ROLLED STEEL REFLECTOR, FLUSH LENS, 1% MINIMUM 0-10V DIMMING	LED 3500°K 725 LUMENS/FT	120	7W/FT	CEILING RECESSED	MANUF: FINELITE PART # H2 R D 14 S 835 F 96LG 120 SC FC-1% SW OR EQUAL BY HE WILLIAMS OR SELUX	3, 4
LW24	4" LINEAR WALL MOUNT, 2" WIDE APETURE, EXTRUDED ALUMINUM BODY, ASYMETRICAL DISTRIBUTION DOWNLIGHT ONLY.	LED 3500°K 405 LUMENS/FT	120	4.5W/FT	WALL	MANUF: FINELITE PART # H2 2 WM D 4 B 835 DAO-R 96LG 120 SC FC-1% MB SW OR EQUAL BY HE WILLIAMS OR SELUX	
LW28	SAME AS TYPE 'LW24' EXCEPT 8" LONG.	LED 3500°K 405 LUMENS/FT	120	4.5W/FT	WALL	MANUF: FINELITE PART # H2 2 WM D 8 B 835 DAO-R 96LG 120 SC FC-1% MB SW OR EQUAL BY HE WILLIAMS OR SELUX	
R11	10" RETROFIT LED DOWNLIGHT, WIDE BEAM HYPERBOLIC REFLECTOR, CLEAR SEMI-SPECULAR FINISH, 1% MINIMUM 0-10V DIMMING	LED 3500°K 1300 LUMENS	120/277	12	CEILING RECESSED	MANUF: INDY PART # LR10 13LM 35K MVOLT G4 80CRI E21 HW CSS OR EQUAL BY ELITE LIGHTING OR GOTHAM	2
R11E	SAME AS TYPE 'R11' EXCEPT WITH INTEGRAL 600 LUMEN EMERGENCY BATTERY PACK WIREMOTO TEST SWITCH, UL924 LISTED.	LED 3500°K 1300 LUMENS	120/277	12	CEILING RECESSED	MANUF: INDY PART # LR10 13LM 35K MVOLT G4 80CRI E21 BR HW CSS OR EQUAL BY ELITE LIGHTING OR GOTHAM	2
R11W	SAME AS TYPE 'R11' EXCEPT WITH PARABOLIC REFLECTOR AND WET LOCATION RATED.	LED 3500°K 1300 LUMENS	120/277	12	CEILING RECESSED	MANUF: INDY PART # LR10 13LM 35K MVOLT G4 80CRI E21 P CSS WET OR EQUAL BY ELITE LIGHTING OR GOTHAM	2
R11WE	SAME AS TYPE 'R11W' EXCEPT WITH INTEGRAL 600 LUMEN EMERGENCY BATTERY PACK WIREMOTO TEST SWITCH, UL924 LISTED.	LED 3500°K 1300 LUMENS	120/277	12	CEILING RECESSED	MANUF: INDY PART # LR10 13LM 35K MVOLT G4 80CRI E21 BR P CSS WET OR EQUAL BY ELITE LIGHTING OR GOTHAM	2
R61	SAME AS TYPE 'R11' EXCEPT 6"	LED 3500°K 1300 LUMENS	120/277	15	CEILING RECESSED	MANUF: INDY PART # LR6 13LM 35K MVOLT G4 80CRI E21 HW CSS OR EQUAL BY ELITE LIGHTING OR GOTHAM	2
R61E	SAME AS TYPE 'R61' EXCEPT WITH INTEGRAL 600 LUMEN EMERGENCY BATTERY PACK WIREMOTO TEST SWITCH, UL924 LISTED.	LED 3500°K 1300 LUMENS	120/277	15	CEILING RECESSED	MANUF: INDY PART # LR6 13LM 35K MVOLT G4 80CRI E21 BR HW CSS OR EQUAL BY ELITE LIGHTING OR GOTHAM	2
R62	SAME AS TYPE 'R61' EXCEPT LUMEN OUTPUT	LED 3500°K 2300 LUMENS	120/277	30	CEILING RECESSED	MANUF: INDY PART # LR6 23LM 35K MVOLT G4 80CRI E21 HW CSS OR EQUAL BY ELITE LIGHTING OR GOTHAM	2
R62E	SAME AS TYPE 'R62' EXCEPT WITH INTEGRAL 600 LUMEN EMERGENCY BATTERY PACK WIREMOTO TEST SWITCH, UL924 LISTED.	LED 3500°K 2300 LUMENS	120/277	30	CEILING RECESSED	MANUF: INDY PART # LR6 23LM 35K MVOLT G4 80CRI E21 BR HW CSS OR EQUAL BY ELITE LIGHTING OR GOTHAM	2
T24	2'X2' RECESSED LED ARCHITECTURAL TROFFER, FROSTED ACRYLIC LENS, CRS STEEL HOUSING AND REFLECTOR, GRID MOUNT, 1% MINIMUM 0-10V DIMMING	LED 3500°K 4400 LUMENS	120/277	33	GRID MOUNT	MANUF: HE WILLIAMS PART # FT 22 LS 8 CS AF DIM UNV OR EQUAL BY COLUMBIA OR METALUX	
T45	2'X4' RECESSED LED ARCHITECTURAL TROFFER, FROSTED ACRYLIC LENS, CRS STEEL HOUSING AND REFLECTOR, GRID MOUNT, 1% MINIMUM 0-10V DIMMING	LED 3500°K 5800 LUMENS	120/277	39	GRID MOUNT	MANUF: HE WILLIAMS PART # FT 24 LS 8 CS AF DIM UNV OR EQUAL BY COLUMBIA OR METALUX	
T45E	SAME AS TYPE 'T45' EXCEPT WITH INTEGRAL 10W EMERGENCY BATTERY PACK, UL924 LISTED.	LED 3500°K 5800 LUMENS	120/277	39	GRID MOUNT	MANUF: HE WILLIAMS PART # FT 24 LS 8 CS AF EM/10W DIM UNV OR EQUAL BY COLUMBIA OR METALUX	
T45S	2'X4' RECESSED LED ARCHITECTURAL TROFFER, FROSTED ACRYLIC LENS, CRS STEEL HOUSING AND REFLECTOR, SURFACE MOUNT, 1% MINIMUM 0-10V DIMMING	LED 3500°K 5200 LUMENS	120/277	38	CEILING SURFACE	MANUF: HE WILLIAMS PART # LT 24 L52 8 35 AF LT-24-SMK-W DIM UNV OR EQUAL BY COLUMBIA OR METALUX	
T47	SAME AS TYPE 'T45' EXCEPT LUMEN OUTPUT	LED 3500°K 6800 LUMENS	120/277	48	GRID MOUNT	MANUF: HE WILLIAMS PART # FT 24 LS 8 CS AF DIM UNV OR EQUAL BY COLUMBIA OR METALUX	
T47E	SAME AS TYPE 'T47' EXCEPT WITH INTEGRAL 10W EMERGENCY BATTERY PACK, UL924 LISTED.	LED 3500°K 6800 LUMENS	120/277	48	GRID MOUNT	MANUF: HE WILLIAMS PART # FT 24 LS 8 CS AF EM/10W DIM UNV OR EQUAL BY COLUMBIA OR METALUX	
T47F	SAME AS TYPE 'T47' EXCEPT WITH DRYWALL MOUNT KIT	LED 3500°K 6800 LUMENS	120/277	48	DRYWALL RECESSED MOUNT	MANUF: HE WILLIAMS PART # FT 24 LS 8 CS AF DIM UNV DPK-2448W OR EQUAL BY COLUMBIA OR METALUX	
T47FE	SAME AS TYPE 'T47F' EXCEPT WITH INTEGRAL 10W EMERGENCY BATTERY PACK, UL924 LISTED.	LED 3500°K 6800 LUMENS	120/277	48	DRYWALL RECESSED MOUNT	MANUF: HE WILLIAMS PART # FT 24 LS 8 CS AF EM/10W DIM UNV DFK-2448W OR EQUAL BY COLUMBIA OR METALUX	
UT	4' LED STRIP FIXTURE, BAKED WHITE STEEL HOUSING, DIFFUSE SNAP-ON LENS	LED 3500°K 5000 LUMENS	120/277	41	CEILING		

A. FINISHES SHALL BE CONFIRMED BY ARCHITECT OR OWNER PRIOR TO ORDERING.

B. LED DRIVERS SHALL CONFORM TO IEEE P1789 STANDARDS. ALTERNATIVELY, MANUFACTURERS MUST DEMONSTRATE COMPLIANCE WITH PRODUCT LITERATURE AND TESTING WHICH DEMONSTRATES THIS PERFORMANCE. SYSTEMS THAT DO NOT MEET IEEE P1789 WILL NOT BE CONSIDERED.

C. LED DRIVERS SHALL BE MULTI-VOLT. IF MULTI-VOLT DRIVERS ARE NOT AVAILABLE, THEN REQUIRED VOLTAGE SHALL BE VERIFIED WITH ENGINEER PRIOR TO ORDERING.

D. ENSURE THAT LIGHTING CONTROL DEVICES ARE COMPATIBLE WITH FIXTURES AND LAMPS.

E. PROVIDE ALL REQUIRED HARDWARE FOR ALL FIXTURES. VERIFY TYPE REQUIRED WITH INSTALLATION LOCATION.

F. PROVIDE MOUNTING KITS AND/OR ACCESSORIES REQUIRED FOR INSTALLING FIXTURES IN VARIOUS CEILING TYPES. VERIFY CEILING TYPES WITH ARCHITECTURAL DRAWINGS.

1. SURFACE MOUNT ON ACOUSTIC AND HARD CEILINGS OR CHAIN-HANG AT 10'-0" AFF ON CEILINGS > 10'-0".
2. VERIFY COMPATIBILITY WITH THE EXISTING CAN HOUSING, FRAME, MOUNTING HARDWARE, ETC. PRIOR TO SUBMITTAL REVIEW AND SUBMIT A COMPATIBLE FIXTURE.
3. VERIFY AND COORDINATE FIXTURE LENGTH WITH FIELD CONDITIONS PRIOR TO ORDERING.
4. VERIFY VOLTAGE OF EXISTING LOCAL LIGHTING CIRCUIT PRIOR TO ORDERING.
5. THIS DEVICE SHALL BE CAPABLE OF BYPASSING THE WALL SWITCH OR OTHER LIGHTING CONTROL AND BREAKING THE 0-10V SIGNAL FOR FULL OUTPUT WHEN THE EMERGENCY INVERTER OPERATES AND POWERS THE LIGHTS.

A/V BOX SCHEDULE												
MARK	DESCRIPTION	LOCATION	BASIS-OF-DESIGN	TYPE	DUPEX RECEPTACLE QTY	DATA OUTLETS		AV DEVICES		COVER COLOR	KNOCKOUTS	NOTES
						OPENINGS (QTY)	CAT 6 DROPS (QTY)	OPENINGS (QTY)	DEVICES			
FB	8-GANG FLOOR BOX	MOORE ROOM	LEGRAND EVOLUTION EFB8	ON GRADE	4	2	4	2	2 HDMI	TO BE SELECTED AT SUBMITTAL REVIEW	3/4" TO 2"C	1,2,3,4,5,6
NOTES: 1. PROVIDE DEVICES INDICATED IN SERVICE BOX. PROVIDE ALL CABLING UNLESS NOTED OTHERWISE. 2. ALL RECEPTACLES SHALL BE UL TAMPER-RESISTANT. 3. COORDINATE EXACT LOCATION OF BOX WITH OWNER AND 2020 NEC 210.65 REQUIREMENTS. 4. PROVIDE A/V/DATA CONDUITS FROM BOX TO ABOVE ACCESSIBLE CEILING IN ROOM. 5. PROVIDE ADDITIONAL MAAP, DECORATOR, AND BLANK DEVICE PLATES FOR ALL UNUSED DATA AND A/V OPENINGS; TWO (2) OF EACH MINIMUM SPARE. 6. REFER TO A/V RISER DIAGRAMS ON SHEET E800 FOR CONDUIT SIZES.												

[illegible]

ATLANTA | CHARLOTTE | GREENVILLE | RICHMOND

DEVITA Project No. 23501-03

CONSULTANT

138 E BLACK STREET
ROCK HILL, SC 29730

NO.	DATE	DESCRIPTION
A	26 NOV 2024	ISSUE FOR PERMIT
B	19 DEC 2024	ISSUE FOR BID
C	06 JUN 2025	REISSUE FOR BID

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DRAWING NAME

ELECTRICAL SCHEDULES

DRAWING NO.

E900

Drawn By: RHV Checked By: SLF

PANEL MDP (EXISTING TO BE DEMOLISHED)			VOLTAGE: FEEDER AMP: LUGS:	480/277 400	3 PH 4W MAINS:	400	MCB	MIN. SCOR: MOUNTING: ENCLOSURE:	EXISTING EXISTING NEMA 1	REMARKS: SQUARE D LINE					
BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR					
100/3	DEMO	MCC 'MSP1'	13707	1	A	2	14843	MCC 'MSP2'	DEMO	100/3					
			13707	3	B	4	14843								
			13707	5	C	6	14843								
225/3	RELO	PANEL 'LP1'	34205	7	A	8	29556	PANEL 'LP2'	RELO	225/3					
			30772	9	B	10	28464								
			28809	11	C	12	22610								
25/3	DEMO	PANEL 'RP4' via TRANSFORMER	6010	13	A	14	19200	CHILLER	RELO	125/3					
			2930	15	B	16	19200								
			3050	17	C	18	19200								
30/3	RELO	ELEVATOR	5579	19	A	20	500	COMPUTER	DEMO	30/3					
			5579	21	B	22	500								
			5579	23	C	24	500								
30/2	RELO	POLE LIGHTS	4320	25	A	26	0	SPACE	DEMO	-					
			4320	27	B	28	0								
-	DEMO	SPACE	0	29	C	30	0								
-	DEMO	SPACE	0	31	A	32	0	SPACE	DEMO	-					
			0	33	B	34	0								
			0	35	C	36	0								
-	DEMO	SPACE	0	37	A	38	0	SPACE	DEMO	-					
			0	39	B	40	0								
			0	41	C	42	0								
-	DEMO	SPACE	0	43	A	44	0	SPACE	DEMO	-					
			0	45	B	46	0								
			0	47	C	48	0								
-	DEMO	SPACE	0	49	A	50	0	SPACE	DEMO	-					
			0	51	B	52	0								
			0	53	C	54	0								
Connected Load Per Phase			PH A:	127920	PH B:	120315	PH C:	108298							
Connected VA	Lighting	HVAC	72247	64000	Motors	103182	Recept.	9700	Kitchen	Misc	29544	Total VA	356533	Amps	428.9
Demand Factor	1.25	0.80	1.00	NEC	1.00	1.00	1.00	1.00							
Demand VA	90309	51200	103182	43930	0	9700	29544					327865		394.4	

PANEL LP1 (EXISTING TO BE DEMOLISHED)			VOLTAGE: FEEDER AMP: LUGS:		480/277 225		3 PH 4W MAINS:		225		MLO		MIN. SCCR MOUNTING: ENCLOSURE:		EXISTING SURFACE NEMA 1		REMARKS: NON-STANDARD NUMBERING	
BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR								
20/1	RELO	L - MECH, STR, EXT, SERVER, BM	1468	1	A	2	1690	L - CHILD 1st 2 ROWS R6	RELO	20/1								
20/1	RELO	L - TECH SERVICE R1	908	3	B	4	1690	L - CHILD 1st 3 ROWS BY WIND. R7	DEMO	20/1								
20/1	RELO	L - TECH SERVICE R2	1468	5	C	6	2259	L - RR, CONF., STORAGE ROOM	RELO	20/1								
20/1	RELO	L - CHILDRENS AREA R8	739	7	A	8	2259	L - RR, CIRCU., WORK ROOM	RELO	20/1								
20/1	RELO	L - BROWSING AREA R9	1722	9	B	10	0	SPARE	DEMO	20/1								
20/1	RELO	L - BROWSING AREA R10	1595	11	C	12	0	SPARE	DEMO	20/1								
20/1	DEMO	SPARE	0	13	A	14	0	SPARE	DEMO	20/1								
20/1	DEMO	SPARE	0	15	B	16	0	SPARE	DEMO	20/1								
20/1	DEMO	SPARE	0	17	C	18	0	SPARE	DEMO	-								
15/3	RELO	BOOKMOBILE ROLL UP DOOR	265	19	A	20	0	SPARE	DEMO	-								
↓	↓	↓	265	↓	B	20	0	SPARE	DEMO	30/2								
↓	↓	↓	265	↓	C	20	0	↓	↓	↓								
70/3	DEMO	RP1 TRANSFORMER	21404	21	A	22	6380	RP2 TRANSFORMER	DEMO	25/3								
↓	↓	↓	19907	↓	B	22	6280	↓	↓	↓								
↓	↓	↓	16642	↓	C	22	6580	↓	↓	↓								
Connected Load Per Phase			PH A:		34205		PH B:		30772		PH C:		28809					
Connected VA		Lighting	HVAC	26737	500	Motors	795	Recept.	9700	Misc	11594	Total VA		93786	Amps		112.8	
Demand Factor		1.25	1.00	1.00	NEC	1.00	1.00	1.00	1.00									
Demand VA		33421	500	795	27230	0	9700	11594				83240			100.1			

PANEL M1 (NEW)			VOLTAGE	480/277		3 PH 4W		MIN. SCGR:		18K		REMARKS:	
			FEEDER AMP:	200		MAINS:		225		MLO			
			LUGS:				FEED:		TOP		ENCLOSURE:	NEMA 1	
BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION		NOTE	BKR		
20/3	RC	PUMP NO. P1 (7-1/2 HP)	2922	1	A	2	2922	PUMP NO. P2 (7-1/2 HP)		RC	20/3		
↓	↓	↓	2922	3	B	4	2922	↓		↓	↓		
↓	↓	↓	2922	5	C	6	2922	↓		↓	↓		
15/3	RC	PUMP NO. P3 (2 HP)	903	7	A	8	903	PUMP NO. P4 (2 HP)		RC	15/3		
↓	↓	↓	903	9	B	10	903	↓		↓	↓		
↓	↓	↓	903	11	C	12	903	↓		↓	↓		
20/3	RC	PUMP NO. P5 (7-1/2 HP)	2019	13	A	14	2019	PUMP NO. P6 (7-1/2 HP)		RC	20/3		
↓	↓	↓	2019	15	B	16	2019	↓		↓	↓		
↓	↓	↓	2019	17	C	18	2019	↓		↓	↓		
15/3	RC	COOLING TOWER (5 HP)	2019	19	A	20	0	SPACE		-			
↓	↓	↓	2019	21	B	22	0	↓		↓	↓		
↓	↓	↓	2019	23	C	24	0	↓		↓	↓		
15/3	RC	AHU-1 (3 HP)	1275	25	A	26	372	AHU-2 (3/4 HP)		RC	15/3		
↓	↓	↓	1275	27	B	28	372	↓		↓	↓		
↓	↓	↓	1275	29	C	30	372	↓		↓	↓		
15/3	RC	AHU-3 (3/4 HP)	372	31	A	32	1275	AHU-4 (3 HP)		RC	15/3		
↓	↓	↓	372	33	B	34	1275	↓		↓	↓		
↓	↓	↓	372	35	C	36	1275	↓		↓	↓		
15/3	RC	AHU-5 (3 HP)	1275	37	A	38	691	AHU-6 (1-1/2 HP)		RC	15/3		
↓	↓	↓	1275	39	B	40	691	↓		↓	↓		
↓	↓	↓	1275	41	C	42	691	↓		↓	↓		
20/3	RC	AHU-7 (10 HP)	3719	43	A	44	3719	AHU-8 (10 HP)		RC	20/3		
↓	↓	↓	3719	45	B	46	3719	↓		↓	↓		
↓	↓	↓	3719	47	C	48	3719	↓		↓	↓		
15/3	RC	AHU-9 (1 HP)	478	49	A	50	1667	BASIN HEATER		RC	15/3		
↓	↓	↓	478	51	B	52	1667	↓		↓	↓		
↓	↓	↓	478	53	C	54	1667	↓		↓	↓		
-	SPACE		0	55	A	56	0	SPACE		-			
-	SPACE		0	57	B	58	0	SPACE		-			
-	SPACE		0	59	C	60	0	SPACE		-			
-	SPACE		0	61	A	62	0	SPACE		-			
-	SPACE		0	63	B	64	0	SPACE		-			
-	SPACE		0	65	C	66	0	SPACE		-			
-	SPACE		0	67	A	68	0	SPACE		-			
-	SPACE		0	69	B	70	0	SPACE		-			
-	SPACE		0	71	C	72	0	SPACE		-			
-	SPACE		0	73	A	74	0	SPACE		-			
-	SPACE		0	75	B	76	0	SPACE		-			
-	SPACE		0	77	C	78	0	SPACE		-			
-	SPACE		0	79	A	80	0	SPACE		-			
-	SPACE		0	81	B	82	0	SPACE		-			
-	SPACE		0	83	C	84	0	SPACE		-			
Connected Load Per Phase			PH A:	28550	PH B:	28550	PH C:	28550					
Connected VA	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc		Total VA	103.0			
Demand Factor	0	0	85650	0	0	0	0		85650	103.0			
Demand VA	1.25	1.00	1.00	NEC	1.00	1.00	1.00						
	0	0	85650	0	0	0	0		85650	103.0			

PANEL MDP (NEW)			VOLTAGE: FEEDER AMP: LUGS:	480/277 400	3 PH 4W MAINS:	400	MCB	MIN. SCGR: MOUNTING: ENCLOSURE:	35K SURFACE NEMA 1	REMARKS: MCB = ETU, 400AS/400AT, LSI						
BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR						
200/3		PANEL 'M1'	28550	1	A	2	0	SPACE		-						
↓	↓	↓	28550	3	B	4	0	↓	↓	↓						
↓	↓	↓	28550	5	C	6	0	↓	↓	↓						
100/3	RC	PANEL 'LP1'	3402	7	A	8	5252	PANEL 'LP2'	RC	100/3						
↓	↓	↓	3149	9	B	10	4986	↓	↓	↓						
↓	↓	↓	990	11	C	12	2778	↓	↓	↓						
175/3		PANEL 'RDP'	49227	13	A	14	19200	CHILLER	RC	125/3						
↓	↓	VIA XFMR 'T-RDP'	42141	15	B	16	19200	↓	↓	↓						
↓	↓	↓	44344	17	C	18	19200	↓	↓	↓						
30/3	RC, ETU	ELEVATOR	5579	19	A	20	0	SPACE		-						
↓	↓	60AS/30AT, LSI	5579	21	B	22	0	SPACE		-						
↓	↓	↓	5579	23	C	24	0	SPACE		-						
30/2	RC, LC	POLE LIGHTS	4320	25	A	26	0	SPACE		-						
↓	↓	↓	4320	27	B	28	0	SPACE		-						
-		SPACE	0	29	C	30	0	SPACE		-						
-		SPACE	0	31	A	32	0	SPACE		-						
-		SPACE	0	33	B	34	0	SPACE		-						
-		SPACE	0	35	C	36	0	SPACE		-						
-		SPACE	0	37	A	38	0	SPACE		-						
-		SPACE	0	39	B	40	0	SPACE		-						
-		SPACE	0	41	C	42	0	SPACE		-						
-		SPACE	0	43	A	44	0	SPACE		-						
-		SPACE	0	45	B	46	0	SPACE		-						
-		SPACE	0	47	C	48	0	SPACE		-						
-		SPACE	0	49	A	50	0	SPACE		-						
-		SPACE	0	51	B	52	0	SPACE		-						
-		SPACE	0	53	C	54	0	SPACE		-						
Connected Load Per Phase			PH A:	115530	PH B:	107925	PH C:	101441								
Connected VA	Lighting	HVAC	31570	64000	Motors	103182	Recept.	85600	0	9700	Misc	30844	Total VA	324896	Amps	390.8
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00									
Demand VA	39463	64000	103182	47800	0	9700	30844					294989	354.8			

PANEL		LP1 (NEW)	VOLTAGE:	480/277	3 PH 4W	MIN. SCRR:			18K	REMARKS:
			FEEDER AMP:	100	MAINS:	100	MLO	MOUNTING:	SURFACE	
			LUGS:			FEED:	BOTTOM	ENCLOSURE:	NEMA 1	
BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
20/1	RC	L - MECH, CUST. SERV., BM, GARG.	1177	1	A	2	1200	L - CHILDREN'S AREA	RC	20/1
20/1	RC	L - TECH SERVICE	868	3	B	4	0	SPARE		20/1
20/1	RC	L - TECH SERVICE, MGR OFFICES	408	5	C	6	317	L - RR, ELEC, CHILD MGR, STORE.	RC	20/1
20/1	RC	L - FRIENDS ROOM	336	7	A	8	424	L - RR, CIRCU., OFFICE, STORE.	RC	20/1
20/1	RC	L - ACTIVITES, L. PRINT, AUDIO	2016	9	B	10	0	SPARE		20/1
20/1		SPARE	0	11	C	12	0	SPARE		20/1
20/1		SPARE	0	13	A	14	0	SPARE		20/1
20/1		SPARE	0	15	B	16	0	SPARE		20/1
20/1		SPARE	0	17	C	18	0	SPARE		20/1
15/3	RC	BOOKMOBILE ROLL UP DOOR	265	19	A	20	0	SPARE		20/1
↓	↓	↓	265	21	B	22	0	SPARE		20/1
↓	↓	↓	265	23	A	24	0	SPARE		20/1
-		SPACE	0	25	B	26	0	SPACE	-	
-		SPACE	0	27	A	28	0	SPACE	-	
-		SPACE	0	29	C	30	0	SPACE	-	
-		SPACE	0	31	A	32	0	SPACE	-	
-		SPACE	0	33	B	34	0	SPACE	-	
-		SPACE	0	35	C	36	0	SPACE	-	
-		SPACE	0	37	A	38	0	SPACE	-	
-		SPACE	0	39	B	40	0	SPACE	-	
-		SPACE	0	41	C	42	0	SPACE	-	
-		SPACE	0	43	A	44	0	SPACE	-	
-		SPACE	0	45	B	46	0	SPACE	-	
-		SPACE	0	47	C	48	0	SPACE	-	
-		SPACE	0	49	A	50	0	SPACE	-	
-		SPACE	0	51	B	52	0	SPACE	-	
-		SPACE	0	53	C	54	0	SPACE	-	
Connected Load Per Phase			PH A:	3402	PH B:	3149	PH C:	990		
Connected VA		Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Demand Factor		6746	0	795	0	0	0	0	7541	9.1
Demand VA		8433	0	795	0	1.00	1.00	1.00	9228	11.1

PANEL RP4 (EXISTING TO BE DEMOLISHED)		VOLTAGE: FEEDER AMP: LUGS:	208/120 50	3 PH 4W MAINS:	50	MCB	MIN. SCCR: MOUNTING: ENCLOSURE:	10K SURFACE NEMA 1	REMARKS: SQUARE D NOO
			VA	CKT	FEED:	EXISTING	VA	LOAD DESCRIPTION	NOTE
BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE
20/1	RELO	R - CHILLER ROOM	1080	1	A	2	1000	R - TELEPHONE	RELO 20/1
20/1	RELO	R - COOLING TOWER	180	3	A	4	500	FIRE ALARM & BURGLAR ALARM	RELO 20/1
20/1	RELO	UH / EF-1	200	5	B	6	0	SPARE	DEMO 20/1
20/1	RELO	BOILER	500	7	A	8	0	SPARE	DEMO 15/1
20/1	RELO	CHEMICAL FEED SYSTEM	500	9	A	10	500	HVAC CONTROLS	RELO 20/1
30/1	RELO	PROCESSING UNIT	500	11	C	12	500	HEAT TRACE (COOLING TOWER)	RELO 20/1
20/1	RELO	R - SERVER ROOM COMPTERS	1080	13	A	14	750	AHU (SERVER ROOM)	RELO 15/2
20/2	RELO	FLOOD LIGHT (ROOF)	500	15	B	16	750		
↓	↓	↓	500	17	C	18	1350	CONDENSING UNIT (SERVER RM)	RELO 20/2
20/1	RELO	TIME CLOCK	250	19	A	20	1350		
Connected Load Per Phase			PH A:	6010	PH B:	2930	PH C:	3050	
Connected VA	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00	11900	33.3
Demand VA	1250	4400	0	3340	0	0	3250	12240	34.0

PANEL RDP (NEW)		VOLTAGE: FEEDER AMP: LUGS:	208/120 400	3 PH 4W MAINS:	400	MCB	MIN. SCCR: MOUNTING: ENCLOSURE:	10K SURFACE NEMA 1	REMARKS:
			VA	CKT	FEED:	BOTTOM	VA	LOAD DESCRIPTION	NOTE
BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE
20/1	RC	R - CHILLER ROOM	1080	1	A	2	1000	R - TELEPHONE	RC 20/1
20/1	RC	R - COOLING TOWER	180	3	B	4	500	FIRE ALARM & BURGLAR ALARM	RC 20/1
20/1	RC	UH / EF-1	200	5	C	6	0	SPARE	
20/1	RC	BOILER	500	7	A	8	0	SPARE	
20/1	RC	CHEMICAL FEED SYSTEM	500	9	A	10	500	HVAC CONTROLS	RC 20/1
30/1	RC	PROCESSING UNIT	500	11	B	12	500	HEAT TRACE (COOLING TOWER)	RC 20/1
20/1	RC	R - SERVER ROOM COMPTERS	1080	13	A	14	750	AHU (SERVER ROOM)	RC 15/2
20/2	RC	FLOOD LIGHT (ROOF)	500	15	B	16	750		
↓	↓	↓	500	17	C	18	1350	CONDENSING UNIT (SERVER RM)	RC 20/2
20/1	↓	LTC CONTROLLER 'LC3'	250	19	A	20	1350		
20/1		SPARE	0	21	B	22	0	SPARE	
20/1		SPARE	0	23	C	24	0	SPARE	
20/1		SPARE	0	25	A	26	0	SPARE	
20/1		SPARE	0	27	B	28	0	SPARE	
20/1		SPARE	0	29	C	30	0	SPARE	
20/1		SPARE	0	31	A	32	0	SPARE	
20/1		SPARE	0	33	B	34	0	SPARE	
20/1		SPARE	0	35	C	36	0	SPARE	
20/1		SPARE	0	37	A	38	0	SPARE	
20/1		SPARE	0	39	B	40	0	SPARE	
20/1		SPARE	0	41	C	42	0	SPARE	
20/1		SPARE	0	43	A	44	0	SPARE	
20/1		SPARE	0	45	B	46	0	SPARE	
20/1		SPARE	0	47	C	48	0	SPARE	
20/1		SPARE	0	49	A	50	0	SPARE	
20/1		SPARE	0	51	B	52	0	SPARE	
20/1		SPARE	0	53	C	54	0	SPARE	
200/3	SUB	PANEL 'RP1A' & 'RP1B'	28947		A		14270		
			24311		B			PANEL 'RP3A' & 'RP3B'	SUB 200/3
			27950		C		13344		
Connected Load Per Phase			PH A:	49227	PH B:	42141	PH C:	44344	
Connected VA	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00	135712	376.7
Demand VA	9585	6400	0	47800	0	9700	26344	99829	277.1

PANEL RP1 (EXISTING TO BE DEMOLISHED)		VOLTAGE: FEEDER AMP: LUGS:	208/120 150	3 PH 4W MAINS:	150	MCB	MIN. SCCR: MOUNTING: ENCLOSURE:	10K SURFACE NEMA 1	REMARKS: SQUARE D NOO NON-STANDARD NUMBERING
			VA	CKT	FEED:	EXISTING	VA	LOAD DESCRIPTION	NOTE
BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE
60/2	DEMO	PANEL RP1A	5360	1	A	2	1620	R - CONF. SEC. DIR. OFFICE, EF-2	RELO 20/1
↓	↓	↓	5540	3	B	4	1800	R - CONF. SEC. DIR. ASST. OFFICE	RELO 20/1
20/1	RELO	RECEPTACLE	1800	5	A	6	1600	R - GINGER OFFICE	RELO 20/1
20/1	RELO	RECEPTACLE	1200	7	B	8	1400	MICROWAVE OVEN	RELO 20/1
20/1	RELO	R - TOASTER, BREAKROOM	800	9	A	10	1000	R - BROWSING (CHILD INTERNET)	RELO 20/1
20/1	RELO	RECEPTACLE	800	11	B	12	1000	R - BROWSING AREA	RELO 20/1
30/2	RELO	BOOKMOBILE GEN.	2000	13	A	14	585	L - CRP 1 R11	RELO 20/1
↓	↓	↓	2000	↓	B	16	585	L - CRP 1 R12	RELO 20/1
20/1	RELO	L - COM. MEETING, MOORE RM	585	15	A	18	780	L - CRP 1 R15 TO TIME CLOCK	RELO 20/1
20/1	RELO	L - MOORE ROOM TRACK LTG	585	17	B	20	250	L - DN PROJECTION RM, TOILET	RELO 20/1
20/1	DEMO	L - MOORE ROOM	585	19	A	22	1040	CIRC. DESK CRP 1 R14	RELO 20/1
20/1	DEMO	L - MOORE ROOM	520	21	B	24	910	CIRC. DESK CRP 1 R15	RELO 20/1
20/1	RELO	L - LOUNGE / LOCKER	839	23	A	26	1040	CIRC. DESK CRP 1 R16	RELO 20/1
20/1	RELO	AWE POWER POLE	1080	25	B	28	500	DISPOSAL	RELO 20/1
60/2	RELO	RANGE	4000	27	A	30	1200	DISHWASHER	RELO 20/1
↓	↓	↓	4000	↓	B	32	800	R - TECH SVCS / FLOOR REC.	RELO 20/1
20/2	RELO	HEATER IN ELEVATOR PIT	1747	29	A	34	1080	R - AIR HANDLING ROOM	RELO 20/1
↓	↓	↓	1747	↓	C	36	100	C.R.P. 1 CONTROLS	DEMO 20/1
20/1	RELO	LTG, REC. A.C. ROOM, UH 15	1405	31	A	38	310	LTG, REC. ELEVATOR PIT	RELO 20/1
20/1	RELO	PORCH LTG. VIA CRP 1 R.17	650	33	B	40	500	EF-5	RELO 20/1
20/1	RELO	UNLABELED LOAD	1080	35	C	42	520	L - TRACK, MOORE ROOM	RELO 20/1
Connected Load Per Phase			PH A:	21404	PH B:	19907	PH C:	16642	
Connected VA	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00	57953	160.9
Demand VA	12423	500	0	19110	0	9700	9594	51327	142.5

PANEL RP1A (EXISTING TO BE DEMOLISHED)		VOLTAGE: FEEDER AMP: LUGS:	120/240 60	1 PH 3W MAINS:	125	MLO	MIN. SCCR: MOUNTING: ENCLOSURE:	10K SURFACE NEMA 1	REMARKS: EATON BR
			VA	CKT	FEED:	EXISTING	VA	LOAD DESCRIPTION	NOTE
BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE
20/1	RELO	RAMONA	1080	1	A	2	900	DINA'S OFFICE	RELO 20/1
20/1	RELO	TIA	1080	3	B	4	900	BACK OF BOOK MOBILE ROOM	RELO 20/1
20/1	RELO	POWER POLE IT, DALLAN / GREG	1080	5	A	6	900	POWER POLE, VANESSA	RELO 20/1
20/1	RELO	POWER POLE IT, ED	1080	7	B	8	900	CAROLIN	RELO 20/1
20/1	RELO	VAV POWER	500	9	A	10	900	BOOKMOBILE	RELO 20/1
20/1	RELO	POWER POLE IT, TROY	1080	11	B	12	1500	HAND DRYER 1st FLOOR RR's	RELO 20/1
Connected Load Per Phase			PH A:	5360	PH B:	6540			
Connected VA	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00	11900	49.6
Demand VA	0	0	0	9900	0	0	2000	11900	49.6

PANEL RP1A (NEW)		VOLTAGE: FEEDER AMP: LUGS:	208/120 200	3 PH 4W MAINS:	225	MLO	MIN. SCCR: MOUNTING: ENCLOSURE:	10K SURFACE NEMA 1	REMARKS:
			VA	CKT	FEED:	BOTTOM	VA	LOAD DESCRIPTION	NOTE
BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE
20/1		ACCESS CONTROL DOOR PWR	500	1	A	2	1800	R - CONF. SEC. DIR. OFFICE EF-2	RC 20/1
20/1		R - TECH SERVICES COPIER	1500	3	B	4	1800	R - CONF. SEC. DIR. ASST. OFFICE	RC 20/1
20/1	RC	RECEPTACLE	1800	5	C	6	1600	R - GINGER OFFICE	RC 20/1
20/1	RC	RECEPTACLE	1200	7	A	8	1400	MICROWAVE OVEN	RC 20/1
20/1	RC	R - TOASTER, BREAKROOM	800	9	B	10	1000	R - CHILDREN'S AREA	RC 20/1
20/1	RC	RECEPTACLE	800	11	C	12	1000	R - CHILDREN'S AREA	RC 20/1
30/2	RC	BOOKMOBILE GEN.	2000	13	A	14	90	DN LTG - MANAGERS, CH. STAFF	RC, LC 20/1
↓	↓	↓	2000	15	B	16	90	DN LTG - CHILDREN'S AREA	RC, LC 20/1
20/1	RC	L - MOORE ROOM - DN LIGHTS	100	17	C	18	120	DN LTG - AUDIO	RC, LC 20/1
20/1	RC	L - MOORE ROOM - TROFFERS	437	19	A	20	400	L - TOILET, STORAGE, LOBBY	RC 20/1
20/1		SPARE	0	21	B	22	594	L - CIRCULATION DESK	RC 20/1
20/1		SPARE	0	23	C	24	113	L - MAIN ENTRY LOBBY	20/1
20/1	RC	L - LOUNGE, KITCHEN	240	25	A	26	0	SPARE	20/1
20/1	RC	AWE POWER POLE	1080	27	B	28	500	DISPOSAL	RC 20/1
60/2	RC	RANGE	4000	29	C	30	1200	DISHWASHER	RC 20/1
↓	↓	↓	4000	31	A	32	800	R - TECH SVCS / FLOOR REC.	RC 20/1
20/2	RC	HEATER IN ELEVATOR PIT	1747	33	B	34	1080	R - AIR HANDLING ROOM	RC 20/1
↓	↓	↓	1747	35	C	36	0	SPARE	20/1
20/1	RC	LTG, REC. A.C. ROOM, UH 15	1580	37	A	38	380	LTG, REC. ELEVATOR PIT	RC 20/1
20/1	RC, LC	L - PORCH @ STAFF ENTRANCE	60	39	B	40	500	EF-5	RC 20/1
20/1	RC	UNLABELED LOAD	1080	41	C	42	0	SPARE	RC 20/1
20/1	RC	RAMONA	1080	43	A	44	900	DINA'S OFFICE	RC 20/1
20/1	RC	TIA	1080	45	B	46	900	BACK OF BOOK MOBILE ROOM	RC 20/1
20/1	RC	POWER POLE IT, DALLAN / GREG	1080	47	C	48	900	POWER POLE, VANESSA	RC 20/1
20/1	RC	POWER POLE IT, ED	1080	49	A	50	900	CAROLIN	RC 20/1
20/1	RC	VAV POWER	500	51	B	52	900	BOOKMOBILE	RC 20/1
20/1	RC	POWER POLE IT, TROY	1080	53	C	54	1500	HAND DRYER 1st FLOOR RR's	RC 20/1
20/1	LC	L - EXT. STAIRWELL WALLPACK	30	55	A	56	500	LIGHTING CONTROLLER 'LC1'	20/1
20/1		R - SERVER	1000	57	B	58	540	MOORE ROOM FLOOR BOX	20/1
20/1		R - SERVER	1000	59	C	60	2250	WATER HEATER 1st FLOOR	RC 30/2
20/1		R - SERVER	1000	61	A	62	2250		
20/1		R - ELEC 115	180	63	B	64	0	SPARE	20/1
20/1		SPARE	0	65	C	66	0	SPARE	20/1
100/3		PANEL 'RP2'	6380	67	A	68	0	SPARE	20/1
↓	↓	↓	6460	69	B	70	0	SPARE	20/1
↓	↓	↓	6580	71	C	72	0	SPARE	20/1
		PANEL 'RP1B'	0		A		0		
		VIA FEED-THRU LUGS	0		B		0		
			0		C		0		
Connected Load Per Phase			PH A:	28947	PH B:	24311	PH C:	27950	
Connected VA	Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Demand Factor	1.25	1.00	1.00	NEC	1.00	1.00	1.00	81208	225.4
Demand VA	4968	500	0	30020	0	9700	16994	62182	172.6

EXISTING PANEL GENERAL NOTES:

- EXISTING CIRCUIT DATA SHOWN IS TAKEN FROM EXISTING FACILITY DOCUMENTATION AND/OR FIELD OBSERVATION. FIELD VERIFY ALL CIRCUITS.
- VERIFY CIRCUITS ON EXISTING PANELS. ADJUST CIRCUITING AS REQUIRED TO MEET DESIGN INTENT OF DRAWINGS. TURN SPARE BREAKERS OFF.
- PROVIDE NEW TYPEWRITTEN PANEL DIRECTORY TO REFLECT NEW CONDITIONS UPON COMPLETION OF WORK DESCRIBED IN THESE DRAWINGS.
- REUSE EXISTING CIRCUIT BREAKERS WHERE POSSIBLE. PROVIDE NEW BREAKERS AS REQUIRED; TYPE, VOLTAGE RATING, AND AIC RATING TO MATCH EXISTING.
- PANEL SCHEDULES REFLECT STATUS AFTER PROPOSED WORK IS COMPLETE, UNLESS NOTED OTHERWISE.
- BOLD TEXT INDICATES EXISTING CIRCUITS MODIFIED AS PART OF THIS RENOVATION.

PANEL NOTES:

- DEMO EXISTING CIRCUIT TO BE DEMOLISHED
- E EXISTING BREAKER AND CIRCUIT IN EXISTING PANEL TO REMAIN
- ETU ELECTRONIC TRIP UNIT (SEE CIRCUIT DESCRIPTION OR SINGLE-LINE FOR TYPE)
- G GFI CIRCUIT BREAKER
- LC ROUTE CIRCUIT HOMERUN VIA LIGHTING CONTACTOR
- LF PROVIDE PAD-LOCK ATTACHMENT FOR MAINTENANCE LOCK-OUT OF CIRCUIT BREAKER
- LO PROVIDE LOCK-ON DEVICE (HANDLE CLAMP) FOR CIRCUIT BREAKER
- R REUSE EXISTING BREAKER IN EXISTING PANEL FOR NEW LOAD OR

EXISTING PANEL GENERAL NOTES:

1. EXISTING CIRCUIT DATA SHOWN IS TAKEN FROM EXISTING FACILITY DOCUMENTATION AND/OR FIELD OBSERVATION. FIELD VERIFY ALL CIRCUITS.
2. VERIFY CIRCUITS ON EXISTING PANELS. ADJUST CIRCUITING AS REQUIRED TO MEET DESIGN INTENT OF DRAWINGS. TURN SPARE BREAKERS OFF.
3. PROVIDE NEW TYPEWRITTEN PANEL DIRECTORY TO REFLECT NEW CONDITIONS UPON COMPLETION OF WORK DESCRIBED IN THESE DRAWINGS.
4. REUSE EXISTING CIRCUIT BREAKERS WHERE POSSIBLE. PROVIDE NEW BREAKERS AS REQUIRED; TYPE, VOLTAGE RATING, AND AIC RATING TO MATCH EXISTING.
5. PANEL SCHEDULES REFLECT STATUS AFTER PROPOSED WORK IS COMPLETE, UNLESS NOTED OTHERWISE.
6. BOLD TEXT INDICATES EXISTING CIRCUITS MODIFIED AS PART OF THIS RENOVATION.

PANEL NOTES:

- DEMOEXISTING CIRCUIT TO BE DEMOLISHED
- EEXISTING BREAKER AND CIRCUIT IN EXISTING PANEL TO REMAIN
- ETUELECTRONIC TRIP UNIT (SEE CIRCUIT DESCRIPTION OR SINGLE-LINE FOR TYPE)
- G GFI CIRCUIT BREAKER
- LCROUTE CIRCUIT HOMERUN VIA LIGHTING CONTACTOR
- LFPROVIDE PAD-LOCK ATTACHMENT FOR MAINTENANCE LOCK-OUT OF CIRCUIT BREAKER
- LOPROVIDE LOCK-ON DEVICE (HANDLE CLAMP) FOR CIRCUIT BREAKER
- RREUSE EXISTING BREAKER IN EXISTING PANEL FOR NEW LOAD OR DESCRIPTION INDICATED
- RCRECONNECT EXISTING CIRCUIT TO THIS LOCATION
- RELORELOCATE THIS EXISTING CIRCUIT TO NEW SOURCE
- SUBSUB-FEED CIRCUIT BREAKER

HANDLE-TIE NOTES:

1. WHERE MULTI-WIRE BRANCH CIRCUITS (SINGLE-PHASE HOMERUNS WITH A COMMON NEUTRAL) ARE INSTALLED, THESE CIRCUITS SHALL BE SERVED BY ADJACENT BREAKERS VIA HANDLE TIE. REFER TO NEC 210.4
2. EXISTING MULTI-WIRE HOMERUNS THAT ARE RE-FED, RELOCATED, RE-USED OR PARTIALLY RE-USED SHALL BE MODIFIED AS REQUIRED TO MEET THIS CODE REQUIREMENT. RE-LABEL ANY EXISTING DEVICES, CONDUIT, JUNCTION BOXES, ETC. AS REQUIRED TO REFLECT CIRCUIT NUMBER CHANGES.
3. FOR NEW CIRCUITS, MULTI-WIRE BRANCH CIRCUITS ARE NOT PERMITTED.
4. CONTRACTOR SHALL FIELD VERIFY ALL ACTUAL CIRCUIT CONDITIONS PRIOR TO ORDERING HANDLE-TIES, AND PROVIDE HANDLE-TIES REQUIRED TO COMPLY WITH THE NEC.
5. HANDLE-TIES SHALL BE CONSTRUCTED TO FORCE ALL TIED BREAKERS TO SHUT OFF TOGETHER WHEN THE HANDLE OF ANY ONE BREAKER IS MANUALLY MOVED TO THE OFF POSITION, BUT THE HANDLE-TIE SHALL NOT CAUSE COMMON TRIPPING OF ALL BREAKERS WHEN ONE EXPERIENCES AN OVERCURRENT CONDITION.
- TRACING & LABELING SCOPE
- THE INTENT OF THIS PROJECT IS TO RECONFIGURE THE EXISTING ELECTRICAL DISTRIBUTION. EXISTING BRANCH CIRCUIT HOMERUNS WILL BE RELOCATED TO THE PROPER SOURCE BASED ON THEIR DESCRIPTIONS AND THE CIRCUIT TRACING SCOPE NOTED BELOW.

• EXISTING CIRCUIT DESCRIPTIONS SHOWN IN THE PANEL SCHEDULES ARE TAKEN FROM THE EXISTING CURRENT PHYSICAL PANEL DIRECTORIES. MANY OF THESE DIRECTORIES CONTAIN OUTDATED AND/OR AMBIGUOUS DESCRIPTIONS, OR ARE OTHERWISE KNOWN TO BE INACCURATE. PRIOR TO CIRCUIT RELOCATION WORK, TRACE ALL CIRCUITS IN EACH AFFECTED EXISTING PANEL AND PROVIDE UPDATED DIRECTORY WITH APPROPRIATE SPECIFIC LOAD DESCRIPTION CLEARLY DISTINGUISHING EACH CIRCUIT FROM ALL OTHERS PER NEC 408.4. FOR CIRCUITS TO BE RELOCATED, DO THIS WORK IN ORDER TO REFLECT PROPER CIRCUIT DESCRIPTIONS IN NEW PANEL.

• TRACE EACH CIRCUIT TO LOAD AND REPLACE ANY EXISTING CIRCUIT LABELS, INCLUDING LABELS AT BREAKERS, ALL JUNCTION BOXES, DISCONNECTS/STARTERS, AND AT THE LOAD ITSELF, WITH NEW LABELING INDICATING THE NEW CIRCUIT.

• LABEL ALL DISCONNECTS, WIRING DEVICES, LIGHTING CONTROLS, LV SYSTEM PANELS, AND OTHER EQUIPMENT FED BY AC POWER WITH PANEL/CIRCUIT LABEL ITEMS WHETHER SHOWN OR NOT ON THESE PLANS. FIELD DETERMINE ALL EXISTING ITEMS TO BE LABELED.

• FOR EXISTING CIRCUITS WITHOUT AN EQUIPMENT GROUNDING CONDUCTOR (EGC), MAKE GROUND CONNECTION AT CIRCUIT INTERCEPT POINT AND PROVIDE EGC IN CIRCUIT EXTENSION WIRING BACK TO PANEL, FOR THE REMAINING PORTION OF THE CIRCUIT. ENSURE THAT EXISTING CONDUIT USED AS EGC IS BONDED AT JUNCTION BOX PER NEC TO MAINTAIN EGC INTEGRITY.



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DEVITA Project No. 23501-03

PROJECT INFORMATION:

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ROCK HILL, SC 29730

REVISIONS

NO.	DATE	DESCRIPTION
A	26 NOV 2024	ISSUE FOR PERMIT
B	19 DEC 2024	ISSUE FOR BID
C	06 JUN 2025	REISSUE FOR BID

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DRAWING NAME

ELECTRICAL PANEL
SCHEDULES

DRAWING NO.

E903

Drawn By: RHV Checked By: SLE

PANEL RP1B (NEW)			VOLTAGE: FEEDER AMP: LUGS:	208/120 200	3 PH 4W MAINS:	225 MLO	MIN. SCCR: MOUNTING: ENCLOSURE:	10K SURFACE NEMA 1	REMARKS:	
BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR
20/1		SPARE	0	1	A	2	0	SPARE		20/1
20/1		SPARE	0	3	B	4	0	SPARE		20/1
20/1		SPARE	0	5	C	6	0	SPARE		20/1
20/1		SPARE	0	7	A	8	0	SPARE		20/1
20/1		SPARE	0	9	B	10	0	SPARE		20/1
20/1		SPARE	0	11	C	12	0	SPARE		20/1
20/1		SPARE	0	13	A	14	0	SPARE		20/1
20/1		SPARE	0	15	B	16	0	SPARE		20/1
20/1		SPARE	0	17	C	18	0	SPARE		20/1
20/1		SPARE	0	19	A	20	0	SPARE		20/1
20/1		SPARE	0	21	B	22	0	SPARE		20/1
20/1		SPARE	0	23	C	24	0	SPARE		20/1
20/1		SPARE	0	25	A	26	0	SPARE		20/1
20/1		SPARE	0	27	B	28	0	SPARE		20/1
20/1		SPARE	0	29	C	30	0	SPARE		20/1
20/1		SPARE	0	31	A	32	0	SPARE		20/1
20/1		SPARE	0	33	B	34	0	SPARE		20/1
20/1		SPARE	0	35	C	36	0	SPARE		20/1
20/1		SPARE	0	37	A	38	0	SPARE		20/1
20/1		SPARE	0	39	B	40	0	SPARE		20/1
20/1		SPARE	0	41	C	42	0	SPARE		20/1
20/1		SPARE	0	43	A	44	0	SPARE		20/1
20/1		SPARE	0	45	B	46	0	SPARE		20/1
20/1		SPARE	0	47	C	48	0	SPARE		20/1
20/1		SPARE	0	49	A	50	0	SPARE		20/1
20/1		SPARE	0	51	B	52	0	SPARE		20/1
20/1		SPARE	0	53	C	54	0	SPARE		20/1
Connected Load Per Phase			PH A:	0	PH B:	0	PH C:	0		
Lighting			HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps
Connected VA			0	0	0	0	0	0	0	0.0
Demand Factor			1.25	1.00	1.00	1.00	1.00	1.00		
Demand VA			0	0	0	0	0	0	0	0.0

PANEL RP2			VOLTAGE:		208/120 3 PH 4W		MIN. SCCR:		10K		REMARKS:	
(NEW)			FEEDER AMP:		100 MAINS:		100 MLO		MOUNTING:		SURFACE	
			LUGS:				TOP		ENCLOSURE:		NEMA 1	
BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR		
20/1	RC	R - CIRCUIT WORKROOM UPS T.C.	1400	1	A	2	1400	OUTSIDE WALL, FLOOR BOXES	RC	20/1		
20/1	RC	R - CIRCUIT WORKROOM	1400	3	B	4	1200	OUTSIDE WALL, FLOOR BOXES	RC	20/1		
20/1	RC	CHILDREN'S COPIER	1200	5	C	6	1000	OUTSIDE WALL, FLOOR BOXES	RC	20/1		
20/1	RC	R - WOMEN'S RR GFI	540	7	A	8	1040	L - MECH ROOM, TV	RC	20/1		
20/1	RC	R - CIRC. DESK, MEN'S RR	1600	9	B	10	1080	UNLABELED LOAD	RC	20/1		
20/1	RC	R - MEETING RM, LOBBY	1600	11	C	12	1200	ZEROX MACHINE	RC	20/1		
20/1	RC	THEFT DETECTION SYSTEM	500	13	A	14	500	L - VIRTUAL LIBRARY	RC	20/1		
20/1	RC	REMOTE LOCKERS	500	15	B	16	500	UNLABELED LOAD	RC	15/1		
20/1	RC	COMPUTER CIR.	500	17	C	18	1080	R - DESK	RC	20/1		
20/1	RC	COMPUTER CIR.	500	19	A	20	500	FRONT DOORS	RC	20/1		
20/1		R - ELEC 140	180	21	B	22	0	SPARE		20/1		
20/1		SPARE	0	23	C	24	0	SPARE		20/1		
20/1		SPARE	0	25	A	26	0	SPARE		20/1		
20/1		SPARE	0	27	B	28	0	SPARE		20/1		
20/1		SPARE	0	29	C	30	0	SPARE		20/1		
20/1		SPARE	0	31	A	32	0	SPARE		20/1		
20/1		SPARE	0	33	B	34	0	SPARE		20/1		
20/1		SPARE	0	35	C	36	0	SPARE		20/1		
20/1		SPARE	0	37	A	38	0	SPARE		20/1		
20/1		SPARE	0	39	B	40	0	SPARE		20/1		
20/1		SPARE	0	41	C	42	0	SPARE		20/1		
20/1		SPARE	0	43	A	44	0	SPARE		20/1		
20/1		SPARE	0	45	B	46	0	SPARE		20/1		
20/1		SPARE	0	47	C	48	0	SPARE		20/1		
20/1		SPARE	0	49	A	50	0	SPARE		20/1		
20/1		SPARE	0	51	B	52	0	SPARE		20/1		
20/1		SPARE	0	53	C	54	0	SPARE		20/1		
Connected Load Per Phase			PH A:	6380	PH B:	6460	PH C:	6580				
Lighting			HVAC	Motors	Recept	Refrig	Kitchen	Misc	Total VA	Amps		
Connected VA			1000	0	16420	0	0	2000	19420	53.9		
Demand Factor			1.25	1.00	1.00	1.00	1.00	1.00				
Demand VA			1250	0	0	13210	0	2000	16460	45.7		

PANEL LP2			VOLTAGE:		480/277		3 PH 4W		MIN. SCCR:		18K		REMARKS:	
(NEW)			FEEDER AMP:		100		MAINS:		100		SURFACE			
			LUGS:						BOTTOM		ENCLOSURE:		NEMA 1	
BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR				
20/1	RC	L - ADULT READING, REF. ANNEX	1 2754	1	A	2	0	SPARE		20/1				
20/1	RC	L - ADULT READING, REF. MGR	2160	3	B	4	0	SPARE		20/1				
20/1		SPARE	0	5	C	6	0	SPARE		20/1				
20/1	RC	L - TEEN HISTORY, STORAGE	1148	7	A	8	0	SPARE		20/1				
20/1	RC	L - TEEN AREA, YA OFFICES	576	9	B	10	0	SPARE		20/1				
20/1		SPARE	0	11	C	12	528	L - RR, BLDG MGR, COMP LAB	RC	20/1				
20/1	RC	OUTSIDE POLE LIGHTS	1350	13	A	14	0	SPARE		20/1				
20/1		SPARE	0	15	B	16	0	SPARE		20/1				
20/1		SPARE	0	17	C	18	0	SPARE		20/1				
20/1		SPARE	0	19	A	20	0	SPARE		20/1				
20/1		SPARE	0	21	B	22	0	SPARE		20/1				
20/1		SPARE	0	23	C	24	0	SPARE		20/1				
20/1		SPARE	0	25	A	26	0	SPARE		20/1				
-		SPACE	0	27	B	28	2250	WATER HEATER	RC	30/2				
-		SPACE	0	29	C	30	2250		↓	↓				
-		SPACE	0	31	A	32	0	SPACE		-				
-		SPACE	0	33	B	34	0	SPACE		-				
-		SPACE	0	35	C	36	0	SPACE		-				
-		SPACE	0	37	A	38	0	SPACE		-				
-		SPACE	0	39	B	40	0	SPACE		-				
-		SPACE	0	41	C	42	0	SPACE		-				
-		SPACE	0	43	A	44	0	SPACE		-				
-		SPACE	0	45	B	46	0	SPACE		-				
-		SPACE	0	47	C	48	0	SPACE		-				
-		SPACE	0	49	A	50	0	SPACE		-				
-		SPACE	0	51	B	52	0	SPACE		-				
-		SPACE	0	53	C	54	0	SPACE		-				
Connected Load Per Phase			PH A:	5252	PH B:	4986	PH C:	2778						
Lighting			HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps				
Connected VA			8516	0	0	0	0	4500	13016	15.7				
Demand Factor			1.25	1.00	1.00	1.00	1.00	1.00						
Demand VA			10645	0	0	0	0	4500	15145	18.2				

PANEL RP2 (EXISTING TO BE DEMOLISHED)			VOLTAGE: FEEDER AMP: LUGS:		208/120 50	3 PH 4W MAINS:	50 FEED:	MCB EXISTING	MIN. SCCR: MOUNTING: ENCLOSURE:	10K SURFACE NEMA 1	REMARKS: SQUARE D NOO	
BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION			NOTE	BKR
20/1	RELO	R - CIRCU. WORKROOM UPS T.C.	1400	1	A	2	1400	OUTSIDE WALL, FLOOR BOXES			RELO	20/1
20/1	RELO	R - CIRCU. WORKROOM	1400	3	B	4	1200	OUTSIDE WALL, FLOOR BOXES			RELO	20/1
20/1	RELO	CHILDREN'S COPIER	1200	5	C	6	1000	OUTSIDE WALL, FLOOR BOXES			RELO	20/1
20/1	RELO	R - WOMEN'S RR GFI	540	7	A	8	1040	L - MECH ROOM, TV			RELO	20/1
20/1	RELO	R - CIRC. DESK, MEN'S RR	1600	9	B	10	1080	UNLABELED LOAD			RELO	20/1
20/1	RELO	R - MEETING RM, LOBBY	1600	11	C	12	1200	ZEROX MACHINE			RELO	20/1
20/1	RELO	THEFT DETECTION SYSTEM	500	13	A	14	500	L - VIRTUAL LIBRARY			RELO	20/1
20/1	RELO	REMOTE LOCKERS	500	15	B	16	500	UNLABELED LOAD			RELO	15/1
20/1	RELO	COMPUTER CIR.	500	17	C	18	1080	R - DESK			RELO	20/1
20/1	RELO	COMPUTER CIR.	500	19	A	20	500	FRONT DOORS			RELO	20/1
Connected Load Per Phase			PH A:	6380	PH B:	6280	PH C:	6580				
Lighting			HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA		Amps	
Connected VA			1000	0	0	0	0	2000	19240		53.4	
Demand Factor			1.25	1.00	1.00	1.00	1.00	1.00				
Demand VA			1250	0	0	0	0	2000	16370		45.4	

PANEL RP3 (EXISTING TO BE DEMOLISHED)			VOLTAGE: FEEDER AMP: LUGS:		208/120 150		3 PH 4W MAINS:		150 MCB		MIN. SCCR: MOUNTING: ENCLOSURE:		10K SURFACE NEMA 1		REMARKS: SQUARE D NQO	
			FEED:		EXISTING											
BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION		NOTE	BKR					
20/1	RELO	FLOOR REC. ADULT READING	1000	1	A	2	1600	OUTSIDE WALL REC. UH-1		RELO	20/1					
20/1	RELO	FLOOR REC. ADULT READING	1000	3	B	4	1000	R - WOMEN RR, REF WORKROOM		RELO	20/1					
20/1	RELO	FLOOR REC. ADULT READING	1000	5	C	6	1200	R - MEN RR, REF WORKROOM		RELO	20/1					
20/1	RELO	FLOOR REC. REFERENCE	800	7	A	8	1400	R - TECH LAB, REFERENCE		RELO	20/1					
20/1	RELO	FLOOR REC. REFERENCE	800	9	B	10	1400	R - TECH LAB, REFERENCE		RELO	20/1					
20/1	RELO	FLOOR REC. REFERENCE	1000	11	C	12	585	L - BY WINDOWS R.7		RELO	20/1					
20/1	RELO	CARROL REC R.1	800	13	A	14	600	R - CARROL R.4		RELO	20/1					
20/1	RELO	CARROL REC R.3	800	15	B	16	600	R - CARROL R.6		RELO	20/1					
20/1	RELO	CARROL REC R.5	800	17	C	18	800	R - CARROL R.8		RELO	20/1					
20/1	RELO	L - BY WINDOWS R.9	683	19	A	20	780	L - BY WINDOWS R.7		RELO	20/1					
20/1	RELO	L - BY WINDOWS R.10	585	21	B	22	780	L - BY WINDOWS R.8		RELO	20/1					
20/1	DEMO	L - BY WINDOWS R.11	683	23	C	24	1073	L - STAIRWAY & LANDING R.26		RELO	20/1					
20/1	DEMO	L - BY WINDOWS R.13	585	25	A	26	780	L - STAIRWAY & LANDING R.27		RELO	20/1					
20/1	RELO	L - LOBBY R.14	585	27	B	28	878	L - STAIRWAY & LANDING R.28		RELO	20/1					
20/1	RELO	D.N. LIGHTS, LOCAL HISTORY R.12	585	29	C	30	1040	L - STAIRWELL BY LTG CONTACTOR		RELO	20/1					
20/1	RELO	L - UPPER PORCH CONTACTOR	975	31	A	32	3240	POWER BOX 'LC' IN OFF. ANNEX		DEMO	50/2					
20/1	RELO	L - UPPER PORCH CONTACTOR	975	33	B	34	2160									
20/1	DEMO	C.R.P. 2 CONTROLS	100	35	C	36	2250	WATER HEATER 1st FLOOR		RELO	30/2					
60/2	DEMO	PANEL RP3A	6670	37	A	38	2250									
			5490	39	B	40	500	EF-3		RELO	20/1					
	DEMO	SPACE	0	41	C	42	1000	RR HAND DRYER		RELO	20/1					
Connected Load Per Phase			PH A:	22163	PH B:	17553	PH C:	12115								
Connected VA			Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps					
			11570	1500	0	28560	0	0	10200	51830	143.9					
Demand Factor			1.25	1.00	1.00	NEC	1.00	1.00	1.00							
Demand VA			14463	1500	0	19280	0	0	10200	45443	126.1					

PANEL RP3A (EXISTING TO BE DEMOLISHED)			VOLTAGE: FEEDER AMP:		120/240 60	1 PH 3W MAINS:		125	MLO	MIN SCCR: MOUNTING: ENCLOSURE:	10K SURFACE NEMA 1	REMARKS: EATON CULTER-HAMMER
BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR		
20/1	RELO	POWER POLE 1 TECH LAB	1080	1	A	2	2250	WATER HEATER	RELO	30/2		
20/1	RELO	POWER POLE 2 TECH LAB	1080	3	B	4	2250					
20/1	RELO	POWER POLE 3 TECH LAB	1080	5	A	6	1080	POWER POLE 7	RELO	20/1		
20/1	DEMO	SPARE	0	7	B	8	1080	SYSTEMS ANNEX BACK OFFICE	RELO	20/1		
20/1	RELO	POWER POLE 5 LOCAL HISTORY	1080	9	A	10	100	VAV POWER	RELO	20/1		
20/1	RELO	POWER POLE 6 BLUE JAM	1080	11	B	12	0	SPACE	DEMO	-		
-	DEMO	SPACE	0	13	A	14	0	SPACE	DEMO	-		
-	DEMO	SPACE	0	15	B	16	0	SPACE	DEMO	-		
-	DEMO	SPACE	0	17	A	18	0	SPACE	DEMO	-		
-	DEMO	SPACE	0	19	B	20	0	SPACE	DEMO	-		
Connected Load Per Phase			PH A:	6670	PH B:	5490						
Connected VA		Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps		
		0	0	0	7560	0	0	4600	12160	50.7		
Demand Factor		1.25	1.00	1.00	NEC	1.00	1.00	1.00				
Demand VA		0	0	0	7560	0	0	4600	12160	50.7		

PANEL LC (EXISTING TO BE DEMOLISHED)					VOLTAGE: FEEDER AMP: LUGS:	120/240 60	1 PH 3W MAINS:	125 125	MLO	MIN SCCR: MOUNTING: ENCLOSURE:	10K SURFACE NEMA 1	REMARKS: SIEMENS ITE
BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR		
20/1	RELO	ANNEX 1	1080	1	A	2	1080	ANNEX NETWORK RACK	RELO	20/1		
	RELO	ANNEX 3	1080	3		4	0	SPACE	DEMO			
	DEMO	UNUSABLE SPACE	0	5	A	6	1080	UNLABELED LOAD	RELO	20/1		
	DEMO	UNUSABLE SPACE	0	7		8	1080	UNLABELED LOAD	RELO	20/1		
Connected Load Per Phase					PH A:	3240	PH B:	2160				
Connected VA		Lighting	HVAC	Motors	Recept.	Refrig	Kitchen	Misc	Total VA	Amps		
		0	0	0	5400	0	0	0	5400	22.5		
Demand Factor		1.25	1.00	1.00	NEC	1.00	1.00	1.00				
Demand VA		0	0	0	5400	0	0	0	5400	22.5		

PANEL RP3A (NEW)			VOLTAGE: FEEDER AMP: LUGS:	208/120 200	3 PH 4W MAINS:	225	MLO	MIN. SCCR: MOUNTING: ENCLOSURE:	10K SURFACE NEMA 1	REMARKS:		
BKR	NOTE	LOAD DESCRIPTION	VA	CKT	PHASE	CKT	VA	LOAD DESCRIPTION	NOTE	BKR		
20/1	RC	FLOOR REC. ADULT READING	1000	1	A	B	2	1600	OUTSIDE WALL REC. UH-1	RC	20/1	
20/1	RC	FLOOR REC. ADULT READING	1000	3			4	1000	R - WOMEN RR, REF WORKROOM	RC	20/1	
20/1	RC	FLOOR REC. ADULT READING	1000	5	A	B	C	6	1200	R - MEN RR, REF WORKROOM	RC	20/1
20/1	RC	FLOOR REC. REFERENCE	800	7			8	1400	R - TECH LAB, REFERENCE	RC	20/1	
20/1	RC	FLOOR REC. REFERENCE	800	9	A	B	10	1400	R - TECH LAB, REFERENCE	RC	20/1	
20/1	RC	FLOOR REC. REFERENCE	1000	11			12	900	L - BY WINDOWS R.7	RC	20/1	
20/1	RC	CARROL REC R.1	800	13	A	B	14	600	R - CARROL R.4	RC	20/1	
20/1	RC	CARROL REC R.3	800	15			16	600	R - CARROL R.6	RC	20/1	
20/1	RC	CARROL REC R.5	800	17	A	B	18	800	R - CARROL R.8	RC	20/1	
20/1	RC, LC	DN LTG - ADULT READING, REF.	105	19			20	240	DN LTG - ADULT READING	RC, LC	20/1	
20/1	RC, LC	DN LTG - TEEN AREA	120	21	A	B	22	75	DN LTG - STAIRWAY WINDOW	RC, LC	20/1	
20/1		SPARE	0	23			C	24	558	L - STAIRWAY & LANDING	RC	20/1
20/1		SPARE	0	25	A	B	26	0	SPARE		20/1	
20/1	RC	L - UPPER LOBBY	360	27			28	0	SPARE		20/1	
20/1	RC, LC	DN LTG - COMPUTER LAB	29	29	A	B	30	36	L - EXTERIOR STAIRWELL	RC, LC	20/1	
20/1	RC, LC	L - UPPER PORCH	75	31			C	32	0	SPARE		20/1
20/1	RC, LC	L - UPPER PORCH	75	33	A	B	34	0	SPARE		20/1	
20/1		POWER POLE TEEN AREA	1080	35			C	36	0	SPARE		20/1
20/1		POWER POLE REF. ANNEX	1080	37	A	B	38	0	SPARE		20/1	
20/1		R - COPIER	1500	39			C	40	500	EF-3		RC
20/1			0	41	A	B	42	1000	RR HAND DRYER	RC	20/1	
20/1	RC	POWER POLE 1 TECH LAB	1080	43			44	2250	WATER HEATER	RC	30/2	
20/1	RC	POWER POLE 2 TECH LAB	1080	45	A	B	46	2250			20/1	
20/1	RC	POWER POLE 3 TECH LAB	1080	47			C	48	1080	POWER POLE 7	RC	20/1
20/1		SPARE	0	49	A	B	50	1080	SYSTEMS ANNEX BACK OFFICE	RC	20/1	
20/1	RC	POWER POLE 5 LOCAL HISTORY	1080	51			52	100	VAV POWER	RC	20/1	
20/1	RC	POWER POLE 6 BLUE JAM	1080	53	A	B	C	54	500	LIGHTING CONTROLLER 'LC2'	RC	20/1
20/1		ANNEX 1	1080	55			56	1080	ANNEX NETWORK RACK	RC	20/1	
20/1	RC	ANNEX 3	1080	57	B	C	58	1080	UNLABELED LOAD	RC	20/1	
20/1		SPARE	0	59			60	1080	UNLABELED LOAD	RC	20/1	
20/1		SPARE	0	61	A	B	62	0	SPARE		20/1	
20/1		SPARE	0	63			64	0	SPARE		20/1	
20/1		SPARE	0	65	A	B	C	66	0	SPARE		20/1
20/1		SPARE	0	67			68	0	SPARE		20/1	
20/1		SPARE	0	69	A	B	C	70	0	SPARE		20/1
20/1		SPARE	0	71			72	0	SPARE		20/1	
		PANEL RP3B	0		A	B		0				
		VIA FEED-THRU LUGS	0				C		0			
Connected Load Per Phase			PH A:	14270		PH B:	14900	PH C:	13344			
Demand Factor	Lighting	HVAC	Motors	Recept	Refrig	Kitchen	Misc	Total VA	Amps			
	2694	1500	0	32220	0	0	6100	42514	118.0			
	1.25	1.00	1.00	NEC	1.00	1.00	1.00					
Demand VA	3368	1500	0	21110	0	0	6100	32078	89.0			