

GENERAL NOTES

1. THE CONTRACTOR SHALL REFER TO THE ELECTRICAL SPECIFICATIONS FOR ADDITIONAL DESIGN STANDARDS. THE ELECTRICAL SPECIFICATIONS ARE A BINDING PART OF THE CONSTRUCTION DOCUMENTS.

2. ALL MATERIALS USED FOR CONSTRUCTION SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. RACEWAY AND CABLES SHALL RUN PARALLEL OR PERPENDICULAR TO WALL AND CEILING STRUCTURES FOR A NEAT APPEARANCE. ALL MATERIAL AND INSTALLATION WILL BE SUBJECT TO OWNERS APPROVAL. COORDINATE AND SCHEDULE INSPECTIONS WITH THE A/HJ AND THE OWNER ACCORDINGLY.

3. PRIOR TO ROUGH-IN FOR LIGHTING SWITCHES, VERIFY ALL DOOR SWINGS WITH ARCHITECTURAL PLANS.

4. ARRANGE LIGHTING FIXTURES IN ACCORDANCE WITH THE ARCHITECTURAL REFLECTED CEILING PLANS.

5. COORDINATE LIGHTING FIXTURES INSTALLATION WITH GRILLES, DIFFUSERS, SPRINKLER HEADS, AND ACCESS PANELS. PROVIDE FIXTURE MOUNTING BRACKETS, ACCESSORIES, PLASTER FRAMES, ETC. SUITABLE FOR THE CEILING TYPES INDICATED ON THE ARCHITECTURAL PLANS.

6. SYMBOLS NOT LISTED IN THE LEGEND ARE IDENTIFIED WHERE THEY OCCUR ON THE DRAWINGS.

7. PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANY AND HAVE EXISTING UNDERGROUND UTILITIES SURVEYED AND INDICATED.

8. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING FIRE STOPPING AT WALL, FLOOR AND CEILING PENETRATIONS WHERE CONDUIT PENETRATIONS OCCUR IN FIRE RATED CONSTRUCTION. FIRE STOPPING AT CONDUIT PENETRATIONS SHALL BE U.L. LISTED.

9. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY. FURNISH ALL REQUIRED JUNCTION BOXES, PULL BOXES, FITTINGS, CONDUIT BODIES, SUPPORT, ACCESS DOORS, HARDWARE, ACCESSORIES, ETC. REQUIRED FOR A COMPLETE AND WORKING ELECTRICAL SYSTEM. WHETHER OR NOT SUCH EQUIPMENT IS INDICATED ON THE DRAWINGS.

10. THE CONTRACTOR SHALL COORDINATE WITH ALL CONTRACT DOCUMENTS AND EQUIPMENT SHOP DRAWINGS.

11. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES BEFORE INSTALLATION OF HIS WORK IN CHASES, CEILING SPACES AND OTHER AREAS WHERE CONFLICT MAY OCCUR.

12. REFER TO MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR EXACT LOCATION AND REQUIREMENTS OF MECHANICAL, PLUMBING AND FIRE PROTECTION EQUIPMENT.

13. ALL ELECTRICAL EQUIPMENT AND MATERIAL SHALL BE NEW AND FREE FROM DEFECT EXCEPT WHERE SPECIFICALLY SHOWN TO REUSE EXISTING MATERIAL. ALL EQUIPMENT AND MATERIAL USED SHALL BE LISTED AND LABELED UNDERWRITERS LABORATORY (U.L.).

14. ALL WORK SHALL BE SUITABLE FOR THE ENVIRONMENT THAT IT IS INSTALLED.

15. COORDINATE THE INSTALLATION OF THE UTILITY TRANSFORMER WITH THE APPROPRIATE POWER COMPANY. CONFIRM WITHIN 10 DAYS OF THE AWARD OF CONTRACT THAT THE AVAILABLE FAULT CURRENT AT THE TRANSFORMER SECONDARY BUSINGS DOES NOT EXCEED THE DESIGNED FAULT CURRENT AT THE SERVICE ENTRANCE EQUIPMENT. NOTIFY THE ENGINEER IMMEDIATELY IF THE DESIGNED FAULT CURRENT IS EXCEEDED.

16. VISIT THE SITE OF THE PROPOSED PROJECT TO BECOME FAMILIAR WITH CONDITIONS AND NATURE OF THE WORK PRIOR TO SUBMITTING BIDS. NOTIFY THE ENGINEER OF DISCREPANCIES OR OMISSIONS FOR INTERPRETATION OR DECISION PRIOR TO SUBMITTING BIDS. SUBMISSION OF A PROPOSAL WILL BE EVIDENCE THAT SUCH FAMILIARIZATION HAS BEEN ATTAINED.

17. WHERE CONTRACTOR PROPOSES ALTERNATE SOLUTIONS, DIFFERENT ROUTINGS OF CONDUIT, DIFFERENT LOCATIONS OF EQUIPMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OF THE RAMIFICATIONS OF THE PROPOSED CHANGE THAT ARE NOT INCLUDED IN HIS PROPOSAL, BUT BECOME APPARENT AT A LATER DATE, AND SHALL BE RESPONSIBLE FOR ALL COST AND CONSEQUENCES OF CORRECTING ANY AND ALL CONFLICTS, DEFICIENCIES OR PROBLEMS THAT INCREASE COST, INCREASE CONSTRUCTION TIME OR CREATE CODE VIOLATIONS.

18. INFORMATION SHOWN ON THE DRAWINGS AS TO THE LOCATION OF EXISTING UTILITIES HAS BEEN PREPARED FROM THE MOST RELIABLE DATA AVAILABLE TO THE ENGINEER. IT IS TO BE UNDERSTOOD THAT UNFORESEEN CONDITIONS PROBABLY EXIST AND NEW WORK MAY NOT BE LOCATED EXACTLY AS SHOWN ON THE DRAWINGS. COORDINATION WITH OTHER TRADES FOR LOCATION AND BURIAL DEPTHS WILL BE REQUIRED AND ANY SUCH REQUIRED DEVIATIONS SHALL BE CONSIDERED PART OF THIS SCOPE OF WORK. SITE UTILITY INFORMATION IS NOT GUARANTEED, THEREFORE THE CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATIONS AND DEPTHS OF EXISTING UTILITIES PRIOR TO BEGINNING WORK. PROTECT ANY EXISTING UTILITIES TO REMAIN FROM DAMAGE DURING THE COURSE OF CONSTRUCTION.

19. PROVIDE DEDICATED NEUTRAL WIRES FOR ALL BRANCH CIRCUITS U.N.O.

20. WHERE THE WORD "PROVIDE" IS USED, THIS SHALL MEAN "FURNISH AND INSTALL".

21. COMPLY WITH SAFETY REGULATIONS INCLUDING BUT NOT LIMITED TO OSHA, NFPA-70E AND ALL ELECTRICAL SAFETY REGULATIONS.

22. PROVIDE DEDICATED RACEWAYS FOR ALL EMERGENCY WIRING. DO NOT COMBINE WITH OTHER TYPES OF WIRING.
23. PROVIDE GROUNDING AND BONDING OF ALL METALLIC RACEWAY, BOXES, WIREWAY, DEVICES AND EQUIPMENT IN ACCORDANCE WITH THE NEC. PROVIDE GROUNDING CONDUCTOR IN ALL POWER CONDUITS.

24. INSTALL ALL DEVICES AND EQUIPMENT IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATIONS AND U.L. REQUIREMENTS.

25. WHERE THE SIZE OF A JUNCTION BOX, PULL BOX OR WIREWAY IS NOT INDICATED ON THE DRAWINGS, THE SIZE SHALL BE SELECTED IN ACCORDANCE WITH THE NEC. WHERE THE ENCLOSURE TYPE OF THE JUNCTION BOX, PULL BOX OR WIREWAY IS NOT INDICATED ON THE DRAWINGS, THE ENCLOSURE TYPE SHALL BE SUITABLE FOR THE ENVIRONMENT WHERE IT IS BEING INSTALLED IN ACCORDANCE THE NEC.

26. VOLTAGE DROP FOR FEEDERS AND BRANCH CIRCUITS HAVE BEEN INCLUDED IN THE DESIGN OF THE ELECTRICAL SYSTEM TO MEET A MAXIMUM OF 5% VOLTAGE DROP PERMITTED BY 2020 FBC ENERGY CONSERVATION CODE C405.5.3.

27. PROVIDE LABELS FOR ALL PANELBOARDS, CABINETS, SAFETY SWITCHES AND MOTOR CONTROLLERS. LABELS SHALL BE MACHINE ENGRAVED, LAMINATED PLASTIC, PERMANENTLY ATTACHED WITH SELF-TAPPING SCREWS OR RIVETS.

28. PROVIDE WRITTEN PANELBOARD DIRECTORY CARD IN EACH PANELBOARD WITH CIRCUIT LOAD INFORMATION AND ROOM NUMBER-LOAD DESCRIPTION CLEARLY IDENTIFIED. USE ACTUAL ROOM NUMBERS IN THE BUILDING WHEN DIFFER FROM ROOM NUMBERS SHOWN ON THE CONTRACT DOCUMENTS. HAND WRITTEN DIRECTORIES ARE NOT ACCEPTABLE.

29. LABEL ALL JUNCTION BOXES WITH PERMANENT MARKER IDENTIFYING PANEL'S NAME AND CIRCUIT NUMBERS WITHIN.

30. ALL MOTORS SHALL HAVE DISCONNECTING MEANS.

31. ALL 3-PHASE MOTORS SHALL HAVE MAGNETIC MOTOR CONTROLLERS WITH SOLID STATE OVERLOAD RELAY PROTECTION. THE SOLID STATE OVERLOAD RELAY SHALL HAVE PHASE LOSS AND PHASE OVERCURRENT PROTECTION WITH AUTOMATIC RESET UPON RETURN OF NORMAL POWER.

32. WHERE FUSE PROTECTION IS SPECIFICALLY REQUIRED BY THE EQUIPMENT MANUFACTURER, PROVIDE FUSED SWITCHES IN LIEU OF NON-FUSED SWITCHES OR ENCLOSED CIRCUIT BREAKERS, OR OTHER DEVICES INDICATED.

33. SECURE APPROVED SHOP DRAWINGS SHOWING WIRING DIAGRAMS, ROUGH-IN AND ELECTRICAL INSTALLATION DETAILS FROM OTHER INVOLVED CONTRACTORS FOR EQUIPMENT WHICH MUST BE CONNECTED ELECTRICALLY.

34. MECHANICAL EQUIPMENT WILL BE PROVIDED BY MECHANICAL CONTRACTOR. THE LOCATIONS SHOWN ON THE ELECTRICAL DRAWINGS ARE APPROXIMATE. COORDINATE WITH MECHANICAL CONTRACTOR TO DETERMINE THE EXACT LOCATION OF EACH PIECE OF EQUIPMENT AND DETERMINE THE EXACT ROUGH-IN AND CONNECTION REQUIREMENTS.

35. HVAC DAMPERS AND CONTROLS. CONTRACTORS SHALL COORDINATE WITH THE EQUIPMENT AND SYSTEM BEING PROVIDED AND PROVIDE POWER CONNECTIONS ACCORDINGLY. THESE CONNECTIONS SHALL BE FOR FIRE-SMOKE DAMPERS, DDC CONTROL DEVICES, ETC. CONTRACTOR SHALL COORDINATE THE VOLTAGE REQUIREMENTS AND PROVIDE ALL NECESSARY CONNECTIONS, COMPONENTS, ETC. INCLUDING TRANSFORMERS, BOXES, ETC.

36. COORDINATE FINAL LOCATIONS OF ELECTRICAL EQUIPMENT WITH MECHANICAL DUCTWORK, PIPING, ETC. AND ASSURE WORKING CLEARANCE REQUIRED BY NEC WILL BE MET. SUFFICIENT ACCESS AND WORKING SPACE SHALL BE PROVIDED AND MAINTAINED AROUND ELECTRICAL EQUIPMENT AS REQUIRED BY NEC.

37. WHERE INDIVIDUALLY MOUNTED SAFETY SWITCH, STARTER OR ENCLOSED CIRCUIT BREAKER IS SHOWN ADJACENT TO ITS RESPECTIVE LOAD AND NOT MOUNTED ON A WALL, PROVIDE ALL SUPPORTS, BRACKETS, ANCHORING, ETC. NECESSARY TO PROPERLY SUPPORT THE DEVICE.

38. THOROUGHLY REVIEW AND COORDINATE ALL CASEWORK AND CABINETS DRAWINGS AND ARCHITECTURAL ELEVATIONS WITH DEVICE LOCATIONS PRIOR TO ROUGH-IN OF OUTLET BOXES.

39. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE FIRE ALARM CONTRACTOR SYSTEM PROVIDER AND PROVIDE POWER CONNECTIONS AS REQUIRED.

40. EMPTY RACEWAYS SHALL BE PROVIDED WITH PULL WIRES.

41. ALL SYSTEMS SHALL BE TESTED FOR PERFORMANCE VERIFICATION IN THE PRESENCE OF THE INSPECTOR. AT THE COMPLETION OF THE PROJECT, ALLOW 6 HOURS FOR TRAINING OWNERS PERSONNEL ON ALL SYSTEMS.

42. UNDERGROUND CONDUIT WHICH EXTENDS OUTSIDE OF THE STRUCTURE SHALL BE MINIMUM 24" BELOW GRADE. CONDUIT WITHIN THE PERIMETER OF THE STRUCTURE SHALL BE MINIMUM 6" BELOW SLAB U.N.O. RACEWAYS SHALL NOT BE ROUTED IN SLAB ON GRADE.

43. WHERE CONDUIT CROSS BUILDING EXPANSION JOINTS, USE SUITABLE SLIDING EXPANSION FITTINGS.

44. FOR EQUIPMENT WITH OVERCURRENT PROTECTION RATED OR ADJUSTABLE TO 1200A OR HIGHER, PROVIDE METHOD OF REDUCING ARC ENERGY IN COMPLIANCE WITH NEC 240.87.

LIGHTING FIXTURE SCHEDULE

| SYMBOL | DESCRIPTION / MODEL NUMBER | VOLTAGE | WATTS | LUMENS | LAMP(S) | COLOR TEMP | MOUNTING | NOTES |
|--------|---|---------|-------|--------|---------|------------|-----------|-------|
| A | 2'X4' LED TROFFER FOCAL POINT# FE02 24 AC 4500LH 35K 1C UNV LD1 | 120/277 | 34 | 4500 | LED | 3500K | LAY-IN | 1,2 |
| A1 | 2'X2' LED TROFFER FOCAL POINT# FE02 22 AC 4500LH 35K 1C UNV LD1 | 120/277 | 43 | 4500 | LED | 3500K | LAY-IN | 1,2 |
| B | LED STRIP LIGHT LITHONIA #CLX L48 4000LM SEF FDL MVOLT GZ10 | 120/277 | 28 | 4000 | LED | 3500K | SURFACE | |
| C | LED LINEAR DIRECT/INDIRECT FOCAL POINT# SM4BS BWFL 375DN 625UP 35K UNV VH | 120/277 | 37 | 4000 | LED | 3500K | SUSPENDED | 1,2 |
| D | 4" ROUND LED DOWNLIGHT LITHONIA# LDM-35/15 L04 AR LD MVOLT GZ10 | 120/277 | 17 | 1500 | LED | 3500K | RECESSED | 1,2 |
| F | 10' LED PENDANT RING OCL# TW1 P1XX 120 MW PTD LD1 35K UNV XS | 120/277 | 390 | 33150 | LED | 3500K | SURFACE | 1,2 |
| G4 | 4' LED LINEAR PENDANT DELRAY# LD1 4 W W35 | 120/277 | 36 | 3465 | LED | 3500K | SUSPENDED | 1,2,3 |
| G8 | 8' LED LINEAR PENDANT DELRAY# LD1 8 W W35 | 120/277 | 80 | 6930 | LED | 3500K | SUSPENDED | 1,2,3 |
| H | WALL SCONCE SELECTED BY OWNER. CONTRACTOR TO CARRY \$400.00 ALLOWANCE | 277 | - | - | LED | - | WALL | |
| J | EXTERIOR EGRESS LIGHTING KENALL #N6-24-MW-2-CP-64L-30K8-DIM1-DV | 120/277 | 64 | 5202 | LED | 3000K | WALL | 1,2 |
| K | LED LINEAR DIRECT FOCAL POINT# SML2 FL 625LF 35K UNV LD1 | 120/277 | 24 | 2500 | LED | 3500K | SUSPENDED | 1,2 |
| T1 | TRACK LIGHT HEAD W/ TRACK LITELINE# PAR422/38 WH III TRACK: A-LINE# ATK-2C (LENGTH AS SHOWN) | 120 | 150 | N/A | PAR38 | N/A | TRACK | 1,2,3 |
| EM | 2-HEAD EMERGENCY LIGHT LITHONIA #ELMML | 120/277 | 3.15 | N/A | LED | N/A | SURFACE | |
| X | LED EXIT SIGN LITHONIA #EDG-X-R-EL (CHEVRON AS NOTED ON PLANS) | 120/277 | 2.8 | N/A | LED | N/A | SURFACE | |

1. COORDINATE WITH ARCHITECT FOR FINAL SELECTIONS.

2. VERIFY FINISH SELECTION WITH ARCHITECT PRIOR TO ORDERING.

3. PROVIDE ALL NECESSARY HARDWARE REQUIRED FOR COMPLETE INSTALLATION

4. "XX" DENOTES LENGTH. SEE UNIT PLANS FOR LENGTH REQUIRED

SYSTEMS LEGEND

| SYMBOL | DESCRIPTION | MOUNTING |
|--------|--|---|
| | FLOORBOX WITH COMMUNICATIONS OUTLET | FLUSH IN FLOOR UNLESS NOTED OTHERWISE |
| | TELEVISION OUTLET | AS NOTED |
| | TELEPHONE PLYWOOD BOARD (4"x8"x3/4") | AS NOTED |
| | COMMUNICATIONS OUTLET FOR DATA AND TELEPHONE: 4" SQUARE BOX WITH SINGLE GANG FLUSH RING, 1" CONDUIT STUBBED UP INTO ACCESSIBLE CEILING SPACE WITH END PLASTIC BUSHING AND PULL STRING. CABLING, TERMINATIONS AND ELECTRONICS BY OWNER'S COMMUNICATIONS VENDOR. | 18" AFF TO CENTERLINE UNLESS NOTED OTHERWISE |

FIRE ALARM LEGEND

| SYMBOL | DESCRIPTION | MOUNTING |
|--------|---|---|
| | FIRE ALARM PULLSTATION, SEMI-FLUSH MOUNT ON RECESSED BOX. | 48" AFF TO TOP UNLESS NOTED OTHERWISE |
| | FIRE ALARM HORN, ADA COMPLIANT, SEMI-FLUSH MOUNT ON RECESSED BOX. | LOWER OPTION OF: TOP 90" AFF OR 6" BELOW CEILING |
| | FIRE ALARM HORN-STROBE COMBO, ADA COMPLIANT, SEMI-FLUSH MOUNT ON RECESSED BOX. | |
| | FIRE ALARM STROBE, ADA COMPLIANT, SEMI-FLUSH MOUNT ON RECESSED BOX. | LOWER OPTION OF: THE ENTIRE LENS NOT LESS THAN 80" AND NOT GREATER THAN 96" AFF OR 6" BELOW CEILING |
| | FIRE ALARM BELL-STROBE COMBO, ADA COMPLIANT, SEMI-FLUSH MOUNT ON RECESSED BOX. | |
| | FIRE ALARM SPEAKER-STROBE COMBO, ADA COMPLIANT, SEMI-FLUSH MOUNT ON RECESSED BOX. | |
| | SMOKE DETECTOR, SURFACE MOUNT ON RECESSED BOX. | CEILING UNLESS NOTED OTHERWISE |
| | HEAT DETECTOR, SURFACE MOUNT ON RECESSED BOX. | CEILING UNLESS NOTED OTHERWISE |
| | DUCT SMOKE DETECTOR WITH SAMPLING TUBE. MOUNTED BY DIV 15 CONNECTED BY THIS CONTRACTOR. | COORDINATE WITH DIV 15 |
| | FAN OR AIR HANDLER UNIT SHUTDOWN RELAY, UNLESS NOTED OTHERWISE. PROVIDE WITH ENCLOSURE. | COORDINATE WITH EQUIPMENT |
| | FIRE ALARM SMOKE DETECTOR REMOTE TEST/INDICATOR STATION | 80" AFF TO TOP UNLESS NOTED OTHERWISE |
| | FIRE ALARM SPRINKLER FLOW SWITCH | COORDINATE WITH DIV 15 |
| | FIRE ALARM SPRINKLER TAMPER SWITCH | COORDINATE WITH DIV 15 |
| | FIRE ALARM CONTROL PANEL | 72" AFF TO TOP UNLESS NOTED OTHERWISE |
| | FIRE ALARM REMOTE ANNUNCIATOR PANEL | 54" AFF TO TOP UNLESS NOTED OTHERWISE |
| | FIRE ALARM TERMINAL CABINET | 72" AFF TO TOP UNLESS NOTED OTHERWISE |

RECEPTACLE LEGEND

| SYMBOL | DESCRIPTION | MOUNTING |
|--------|---|---|
| | DUPLEX RECEPTACLE, 20 A, 120 VAC. REFER TO SPECIFICATIONS FOR DEVICE COLOR, WALL PLATE REQUIREMENTS, AND DEVICE MODEL NUMBER. | 18" AFF TO CENTERLINE UNLESS NOTED OTHERWISE |
| | DUPLEX RECEPTACLE, 20 A, 120 VAC. REFER TO SPECIFICATIONS FOR DEVICE COLOR, WALL PLATE REQUIREMENTS, AND DEVICE MODEL NUMBER. | ABOVE COUNTER UNLESS NOTED OTHERWISE |
| | TWO (2) DUPLEX RECEPTACLES IN COMMON BOX, 20 A, 120 VAC. REFER TO SPECIFICATIONS FOR DEVICE COLOR, WALL PLATE REQUIREMENTS, AND DEVICE MODEL NUMBER. | 18" AFF TO CENTERLINE UNLESS NOTED OTHERWISE |
| | TWO (2) DUPLEX RECEPTACLES IN COMMON BOX, 20 A, 120 VAC. REFER TO SPECIFICATIONS FOR DEVICE COLOR, WALL PLATE REQUIREMENTS, AND DEVICE MODEL NUMBER. | ABOVE COUNTER UNLESS NOTED OTHERWISE |
| | SIMPLEX RECEPTACLE, 20 A, 120 VAC. REFER TO SPECIFICATIONS FOR DEVICE COLOR, WALL PLATE REQUIREMENTS, AND DEVICE MODEL NUMBER. | 18" AFF TO CENTERLINE UNLESS NOTED OTHERWISE |
| | SIMPLEX RECEPTACLE, 20 A, 120 VAC. REFER TO SPECIFICATIONS FOR DEVICE COLOR, WALL PLATE REQUIREMENTS, AND DEVICE MODEL NUMBER. | ABOVE COUNTER UNLESS NOTED OTHERWISE |
| | DUPLEX RECEPTACLE, 20 A, 120 VAC. LOWER OUTLET SWITCHED. REFER TO SPECIFICATIONS FOR DEVICE COLOR, WALL PLATE REQUIREMENTS, AND DEVICE MODEL NUMBER. | 18" AFF TO CENTERLINE UNLESS NOTED OTHERWISE |
| | SIMPLEX RECEPTACLE, SPECIAL PURPOSE, SINGLE PHASE, CURRENT RATING AS NOTED, NEMA CONFIGURATION AS REQUIRED, WITH MATCHING COVER PLATE. | AS NOTED |
| | FLOOR BOX WITH DUPLEX RECEPTACLE, 20 A, 120 VAC. BOX AND COVER REQUIREMENTS AS NOTED. REFER TO SPECIFICATIONS FOR DEVICE COLOR, AND DEVICE MODEL NUMBER. | FLUSH IN FLOOR UNLESS NOTED OTHERWISE |
| | FLOOR BOX WITH TWO (2) DUPLEX RECEPTACLES, 20 A, 120 VAC. BOX AND COVER REQUIREMENTS AS NOTED. REFER TO SPECIFICATIONS FOR DEVICE COLOR, AND DEVICE MODEL NUMBER. | FLUSH IN FLOOR UNLESS NOTED OTHERWISE |
| | FLOOR BOX WITH SIMPLEX RECEPTACLE, 20 A, 120 VAC. BOX AND COVER REQUIREMENTS AS NOTED. REFER TO SPECIFICATIONS FOR DEVICE COLOR, AND DEVICE MODEL NUMBER. | FLUSH IN FLOOR UNLESS NOTED OTHERWISE |
| | TELE/POWER POLE, DUAL RACEWAY, STEEL, IVORY FINISH, WITH NUMBER OF RECEPTABLES AND COMMUNICATIONS OUTLETS AS SHOWN ON PLANS. WIREMOLD: 25DPT-4 SERIES. | ATTACHED TO CEILING SUPPORT SYSTEM |

ABBREVIATIONS

| | | |
|-----------------------------------|--------------------------------------|----------------------------|
| AC ABOVE COUNTER | CTE CONNECT TO EXISTING | N NEW |
| AFF ABOVE FINISHED FLOOR | EX EXISTING | RL RELOCATED |
| AFG ABOVE FINISHED GRADE | GFI GROUND FAULT CURRENT INTERRUPTER | UG UNDERGROUND |
| AHJ AUTHORITY HAVING JURISDICTION | IAW IN ACCORDANCE WITH | UNO UNLESS NOTED OTHERWISE |
| BFG BELOW FINISHED GRADE | IG ISOLATED GROUND | WP WEATHER PROOF |
| CLG CEILING MOUNTED | | |

LIGHTING CONTROLS LEGEND

| SYMBOL | DESCRIPTION | MOUNTING |
|--------|---|--|
| | SWITCH, SINGLE POLE, 20 A, 120/277 VAC. REFER TO SPECIFICATIONS FOR DEVICE COLOR, WALL PLATE COLOR AND MATERIAL, AND DEVICE MODEL NUMBER. | 48" AFF TO TOP UNLESS NOTED OTHERWISE |
| | SWITCH, TWO POLE, 20 A, 120/277 VAC. REFER TO SPECIFICATIONS FOR DEVICE COLOR, WALL PLATE COLOR AND MATERIAL, AND DEVICE MODEL NUMBER. | 48" AFF TO TOP UNLESS NOTED OTHERWISE |
| | SWITCH, THREE-WAY, 20 A, 120/277 VAC. REFER TO SPECIFICATIONS FOR DEVICE COLOR, WALL PLATE COLOR AND MATERIAL, AND DEVICE MODEL NUMBER. | 48" AFF TO TOP UNLESS NOTED OTHERWISE |
| | SWITCH, FOUR-WAY, 20 A, 120/277 VAC. REFER TO SPECIFICATIONS FOR DEVICE COLOR, WALL PLATE COLOR AND MATERIAL, AND DEVICE MODEL NUMBER. | 48" AFF TO TOP UNLESS NOTED OTHERWISE |
| | MOTOR RATED SNAP SWITCH, TOGGLE TYPE. CURRENT RATING/ VOLTAGE/ NUMBER OF POLES/ ENCLOSURE AS NOTED. 20 OR 30 A/ 120 OR 277 V/ SINGLE POLE, LEVITON: 3031-3, 20 OR 30 A/ 208, 240, OR 480 V/ TWO POLE, LEVITON: 6808(GUJ)-DAC 30 A/ 208 OR 480 V/ THREE POLE, LEVITON: 7810-(UIG/D | 48" AFF TO TOP UNLESS NOTED OTHERWISE |
| | LOW VOLTAGE LIGHTING SYSTEM SWITCH WITH MATCHING WALL PLATE. WALLPLATE COLOR AS SELECTED BY ARCHITECT. | 48" AFF TO TOP UNLESS NOTED OTHERWISE |
| | OCCUPANCY SENSOR | CEILING |
| | OCCUPANCY SENSOR SWITCH, SINGLE POLE, 20 A, 120/277 VAC. REFER TO SPECIFICATIONS FOR DEVICE COLOR, WALL PLATE COLOR AND MATERIAL, AND DEVICE MODEL NUMBER. | 48" AFF TO TOP UNLESS NOTED OTHERWISE |
| | DIMMER SWITCH, SLIDE CONTROL, SINGLE POLE. POWER RATING AS SHOWN ON PLANS. REFER TO SPECIFICATIONS FOR WALL PLATE COLOR AND MATERIAL. | 48" AFF TO TOP UNLESS NOTED OTHERWISE |
| | DIMMER SWITCH, THREE-WAY, SLIDE CONTROL, POWER RATING AS SHOWN ON PLANS. REFER TO SPECIFICATIONS FOR WALL PLATE COLOR AND MATERIAL. | 48" AFF TO TOP UNLESS NOTED OTHERWISE |
| | TIME-SWITCH AS INDICATED. | 66" AFF TO TOP UNLESS NOTED OTHERWISE |
| | LIGHTING CONTACTOR AS INDICATED. | 66" AFF TO TOP UNLESS NOTED OTHERWISE |
| | PHOTO CONTROL DEVICE AS INDICATED. | EXTERIOR OF BUILDING UNLESS NOTED OTHERWISE |

POWER LEGEND

| SYMBOL | DESCRIPTION | MOUNTING |
|--------|--|---|
| | NON-FUSED DISCONNECT SWITCH. CURRENT RATING/FUSING/NUMBER OF POLES/ENCLOSURE | 60" AFF TO TOP UNLESS NOTED OTHERWISE |
| | FUSED DISCONNECT SWITCH. CURRENT RATING/FUSING/NUMBER OF POLES/ENCLOSURE | 60" AFF TO TOP UNLESS NOTED OTHERWISE |
| | ENCLOSED CIRCUIT BREAKER. CURRENT RATING/NUMBER OF POLES/ENCLOSURE | 60" AFF TO TOP UNLESS NOTED OTHERWISE |
| | BRANCH CIRCUIT PANELBOARD, 120/208 V OR 120/240 V, SURFACE MOUNT | 72" AFF TO TOP UNLESS NOTED OTHERWISE |
| | BRANCH CIRCUIT PANELBOARD, 120/208 V OR 120/240 V, FLUSH MOUNT | 72" AFF TO TOP UNLESS NOTED OTHERWISE |
| | RESIDENTIAL UNIT LOAD CENTER, 120/208 V OR 120/240 V, FLUSH MOUNT | HIGHEST CIRCUIT BREAKER IN LOAD CENTER SHALL BE MTD AT 48" AFF CENTER OF HANDLE |
| | DISTRIBUTION PANELBOARD, 120/208 V OR 120/240 V, SURFACE MOUNT | 72" AFF TO TOP UNLESS NOTED OTHERWISE |
| | BRANCH CIRCUIT PANELBOARD, 277/480 V, SURFACE MOUNT | 72" AFF TO TOP UNLESS NOTED OTHERWISE |
| | BRANCH CIRCUIT PANELBOARD, 277/480 V, FLUSH MOUNT | 72" AFF TO TOP UNLESS NOTED OTHERWISE |
| | DISTRIBUTION PANELBOARD, 277/480 V, SURFACE MOUNT | 72" AFF TO TOP UNLESS NOTED OTHERWISE |
| | SURGE PROTECTION DEVICE. | PANEL MOUNTED |
| | ELECTRIC METER | 60" AFF TO TOP UNLESS NOTED OTHERWISE |
| | CONTACTOR CURRENT RATING OF CONTACTS/NUMBER OF CONTACTS/ENCLOSURE | 60" AFF TO TOP UNLESS NOTED OTHERWISE |

LIGHTS LEGEND

| SYMBOL | DESCRIPTION | MOUNTING |
|--------|---|----------------------|
| | WALL MOUNT FIXTURE ON FLUSH 4" SQUARE J-BOX, LETTER INDICATES TYPE | SEE FIXTURE SCHEDULE |
| | SURFACE MOUNT SCONCE FIXTURE ON FLUSH 4" SQUARE J-BOX, WITH MOUNTING HARDWARE. LETTER INDICATES TYPE. | SEE FIXTURE SCHEDULE |
| | STRIP FIXTURE WITH REQUIRED MOUNTING HARDWARE, 4' OR 8' AS SHOWN ON PLANS. LETTER INDICATES TYPE | SEE FIXTURE SCHEDULE |
| | WALLBRACKET FIXTURE ON 4" SQUARE FLUSH J-BOX. LENGTH: 2', 3', OR 4' - AS SHOWN ON PLANS, LETTER INDICATES TYPE | SEE FIXTURE SCHEDULE |
| | TROFFER FIXTURE, LETTER INDICATES TYPE | SEE FIXTURE SCHEDULE |
| | TROFFER FIXTURE, LETTER INDICATES TYPE | SEE FIXTURE SCHEDULE |
| | INDIRECT FLUORESCENT FIXTURE, PENDANT MOUNT, LETTER INDICATES TYPE | SEE FIXTURE SCHEDULE |
| | TRACK LIGHT SYSTEM, TRACK MOUNTED ON 4" SQUARE FLUSH J-BOX. TRACK LENGTH AND NUMBER OF LAMPS AS INDICATED. LETTER INDICATES TYPE. | SEE FIXTURE SCHEDULE |
| | RECESSED DOWNLIGHT WITH TRIM AND REQUIRED CEILING ADAPTERS. LETTER INDICATES TYPE. | SEE FIXTURE SCHEDULE |
| | EXIT LIGHT, SHADING INDICATES NUMBER OF FACES, ARROWS INDICATE DIRECTIONAL INDICATORS REQUIRED. LETTER INDICATES TYPE. | SEE FIXTURE SCHEDULE |
| | BATTERY POWERED EMERGENCY EGRESS LIGHT WITH WALL BRACKET, (2) HEAD UNLESS OTHERWISE NOTED. LETTER INDICATES TYPE. | SEE FIXTURE SCHEDULE |
| | EXIT/EGRESS LIGHT COMBO, (2) HEAD BATTERY POWERED EGRESS LIGHT, ARROWS INDICATE DIRECTIONAL INDICATORS REQUIRED. LETTER INDICATES TYPE. | SEE FIXTURE SCHEDULE |

Sheet List Table

| Sheet Number | Sheet Title |
|--------------|--------------------------------------|
| E0.00 | NOTES, LEGENDS AND ABBREVIATIONS |
| ED1.10A | DEMOLITION PLAN - A |
| ED1.10B | DEMOLITION PLAN - B |
| ED1.10C | DEMOLITION PLAN - C |
| ED1.10D | DEMOLITION PLAN - D |
| ED1.10E | DEMOLITION PLAN - E |
| E1.10A | POWER PLAN - A |
| E1.10B | POWER PLAN - B |
| E1.10C | POWER PLAN - C |
| E1.10D | POWER PLAN - D |
| E1.10E | POWER PLAN - E |
| E1.20 | POWER ROOF PLAN |
| E2.10A | LIGHTING PLAN - A |
| E2.10B | LIGHTING PLAN - B |
| E2.10C | LIGHTING PLAN - C |
| E2.10D | LIGHTING PLAN - D |
| E2.10E | LIGHTING PLAN - E |
| E4.00 | ELECTRICAL DETAILS |
| E5.00 | RISER DIAGRAMS |
| E5.01 | RISER DIAGRAMS |
| E6.00 | ELECTRICAL SCHEDULES - SERVICE ONE |
| E6.01 | ELECTRICAL SCHEDULES - SERVICE ONE |
| E6.02 | ELECTRICAL SCHEDULES - SERVICE ONE |
| E6.03 | ELECTRICAL SCHEDULES - SERVICE ONE |
| E6.04 | ELECTRICAL SCHEDULES - SERVICE ONE |
| E6.05 | ELECTRICAL SCHEDULES - SERVICE ONE |
| E6.06 | ELECTRICAL SCHEDULES - SERVICE ONE |
| E6.07 | ELECTRICAL SCHEDULES - SERVICE ONE |
| E6.08 | ELECTRICAL SCHEDULES - CUST. SERVICE |
| E6.09 | ELECTRICAL SCHEDULES - CUST. SERVICE |
| E6.10 | ELECTRICAL SCHEDULES - CUST. SERVICE |
| E6.11 | ELECTRICAL SCHEDULES - CUST. SERVICE |

- CODES AND STANDARDS
- NFPA 70 (NATIONAL ELECTRICAL CODE) (2017)
 - 2020 FLORIDA BUILDING CODE-BUILDING
 - 2020 FLORIDA FIRE PREVENTION CODE
 - 2020 FLORIDA BUILDING CODE-ENERGY CONSERVATION

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SEFFNER, FLORIDA 33594

ROOMS TO GO
OFFICES RENOVATION AND EXPANSION

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FL REG. NO. PE73853
S/S Date

FGA PROJECT NUMBER
21003

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08-25-21

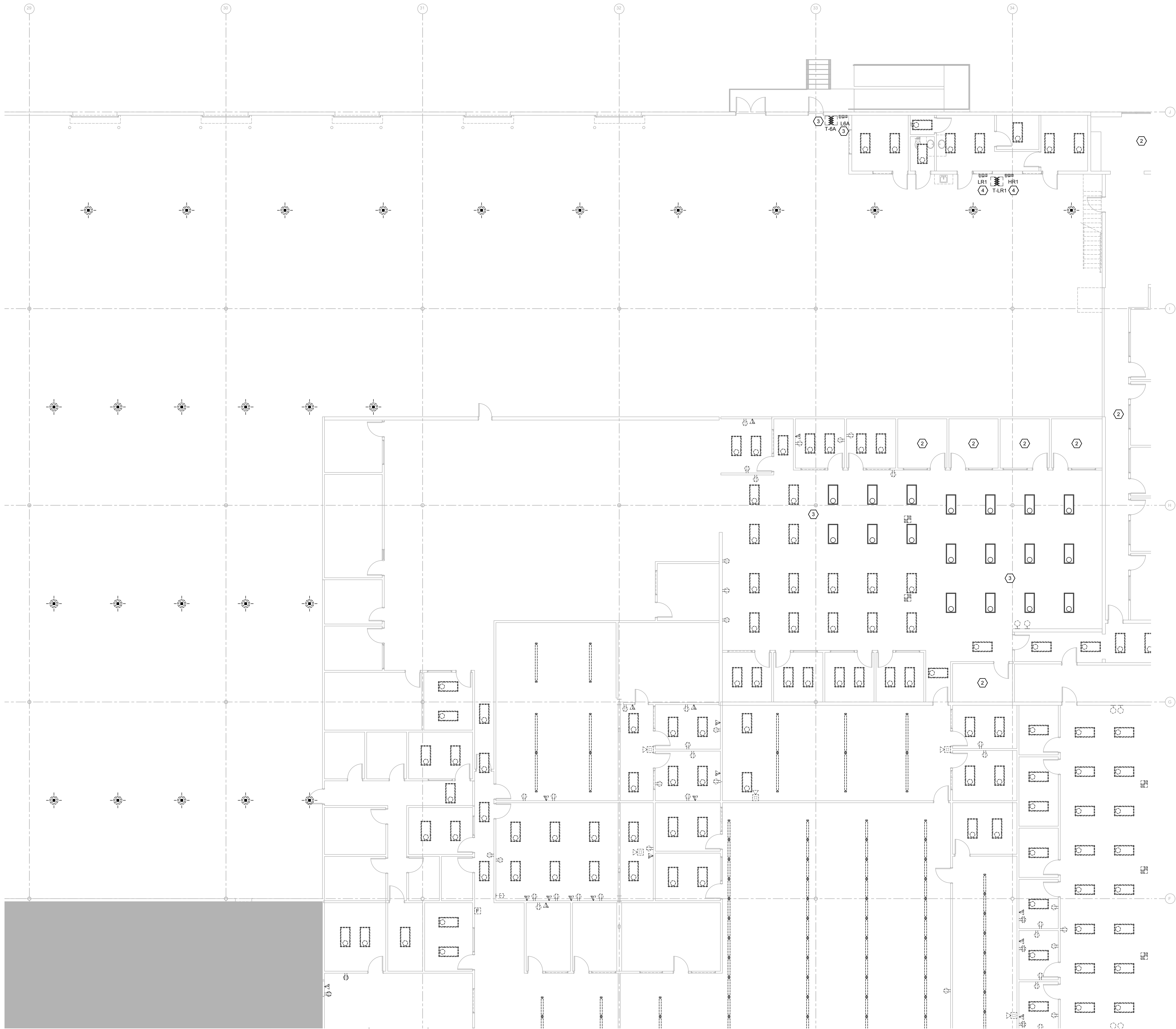
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| 1 | 08-13-21 |
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SHEET NAME

NOTES, LEGENDS AND ABBREVIATIONS

SHEET NUMBER

E0.00



GENERAL NOTES

1. ALL SHUTDOWNS AND OR RELOCATION OF ANY EXISTING ELECTRICAL EQUIPMENT SHALL BE DONE AFTER HOURS AND COORDINATED WITH OWNER.
2. REMOVE ALL RECEPTACLES, SWITCHES, SPEAKERS, BOXES, DEVICES, ETC. IN THE PROJECT AREA MADE UNNECESSARY BY THE DEMOLITION. ELECTRICAL CONTRACTOR SHALL SURVEY PROJECT AREA TO DETERMINE THE EXTENT OF DEMOLITION WORK PRIOR TO SUBMITTING A BID.
3. REMOVE ALL ELECTRICAL WIRING MADE UNNECESSARY BY THE DEMOLITION COMPLETELY BACK TO THE SOURCE AND UPDATE PANEL SCHEDULES. RECONNECT ALL CIRCUITS AS REQUIRED FOR EXISTING DEVICES THAT ARE NOT BEING DEMOLISHED.
4. REMOVE ALL CONDUIT MADE UNNECESSARY BY THE DEMOLITION BACK TO THE SOURCE. WHERE REMOVAL IS NOT POSSIBLE DUE TO STRUCTURAL OR OTHER LIMITATIONS, CONDUIT SHALL BE CUT AT THE SURFACE AND CAPPED. ABANDONED CONDUIT SHALL BE TAGGED FOR FUTURE IDENTIFICATION.
5. REMOVE ALL FIRE ALARM SYSTEM WIRING AND DEVICES IN THE PROJECT AREA MADE UNNECESSARY BY THE DEMOLITION.
6. ALL EQUIPMENT NOT REUSED SUCH AS PANELBOARDS, TRANSFORMERS, DISCONNECTS, AND BREAKERS SHALL BE RETURNED TO OWNER.
7. COORDINATE WITH OWNER TO DETERMINE IF ANY MATERIALS SHALL BE RETURNED TO OWNER FOR BUILDING STOCK. ALL MATERIALS NOT SPECIFICALLY REQUESTED BY THE OWNER SHALL BE DISPOSED OF BY THE CONTRACTOR. RETURN ALL UNUSED LIGHT FIXTURES TO THE OWNER UNLESS DIRECTED OTHERWISE.
8. REMOVE ALL TELEPHONE/DATA WIRING MADE UNNECESSARY BY THE DEMOLITION BACK TO THE SOURCE. COORDINATE WITH OWNER TO DETERMINE EXACT REQUIREMENTS PRIOR TO COMMENCEMENT OF WORK.
9. CONTRACTOR TO RE-USE ANY BOXES AND RACEWAYS THAT ARE NEAR PROPOSED LOCATION FOR NEW RECEPTACLES AND LIGHTING SWITCHES. SEE POWER AND LIGHTING PLANS FOR PROPOSED LOCATIONS.

KEYNOTE LEGEND

1. LIGHTING FIXTURES AND CONTROLS IN THIS AREA SHALL BE REMOVED AND REPLACED WITH NEW FIXTURES AND CONTROLS. CONDUIT, CONDUCTORS, AND FIXTURE WHIPS SHALL REMAIN WHERE POSSIBLE. REFER TO NEW LIGHTING PLANS FOR NEW FIXTURE TYPES AND FURTHER INFORMATION.
2. LIGHTING FIXTURES AND CONTROLS IN THIS AREA SHALL BE EXISTING TO REMAIN.
3. EXISTING PANEL "L6A" AND ASSOCIATED TRANSFORMER SHALL BE RELOCATED. REFER TO POWER PLAN, COORDINATE SHUTDOWN AND PHASING WITH OWNER. EXTEND CONDUIT AND WIRE AS NEEDED.
4. EXISTING PANEL "LR1" AND "HR1" AND ASSOCIATED TRANSFORMER SHALL BE RELOCATED. REFER TO POWER PLAN, COORDINATE SHUTDOWN AND PHASING WITH OWNER. EXTEND CONDUIT AND WIRE AS NEEDED.

DEMOLITION PLAN - D 1
1/8" = 1'-0"



| | | |
|---|---|---|
| E | D | C |
| B | | A |

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S/S Date

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SHEET NAME

DEMOLITION PLAN
-D

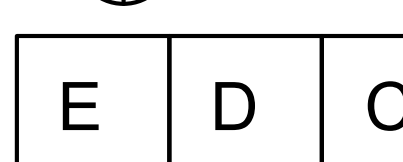
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ED1.10D



1. ALL RECEPTACLES WITHIN 6'-0" OF SINKS SHALL BE GFI.
2. VERIFY MOUNTING HEIGHTS OF ALL RECEPTACLES MOUNTED IN COUNTER AREAS WITH ARCHITECTURAL ELEVATIONS.
3. ALL FIRE ALARM NOTIFICATION SHALL BE CEILING MOUNTED WHERE APPLICABLE.
4. PROVIDE NO. 10 WIRE IN LIEU OF NO. 12 WIRE FOR ANY BRANCH CIRCUIT EXCESS OF 100 FEET (120V) OF CIRCUIT LENGTH TO FARTHEST DEVICE TO PREVENT EXCESSIVE VOLTAGE DROP. PROVIDE NO. 8 WIRE IN LIEU OF NO. 10 WIRE FOR ANY BRANCH CIRCUIT IN EXCESS OF 100 FEET (120V) OF CIRCUIT LENGTH TO FARTHEST DEVICE TO PREVENT EXCESSIVE VOLTAGE DROP.
5. PROVIDE IN-WALL BLOCKING FOR ALL ANY AND ASSOCIATED TELEVISIONS, COORDINATE WITH ARCHITECT.

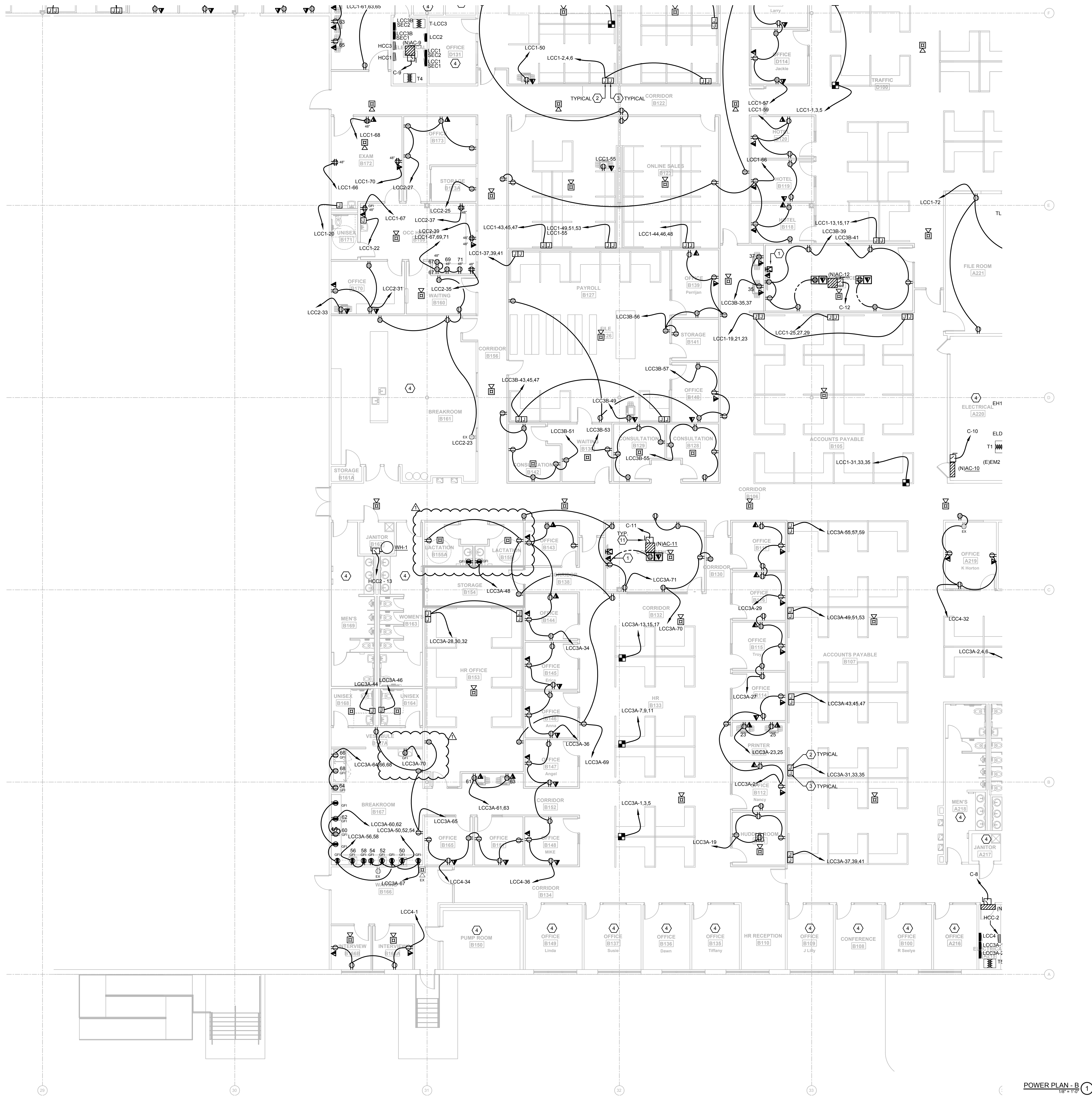


E1.10A



E1.10A

18" = 1'-0" POWER PLAN - B 1



- ### KEYNOTE LEGEND
1. PROVIDE LOW VOLTAGE/POWER RECESSED BOX EQUAL TO ARLINGTON #TVBU505. COORDINATE LOCATION WITH OWNER/ARCHITECT.
 2. J-BOX OF ADEQUATE SIZE FOR MODULAR FURNITURE CONNECTION. PROVIDE BUSHED OPENING OPENING IN COVER TO ALL MODULAR FURNITURE WHIP CONNECTION. MOUNT 18" AFF UNLESS INSTRUCTED OTHERWISE BY FURNITURE SYSTEM VENDOR.
 3. J-BOX FOR MODULAR FURNITURE STRUCTURE CABLING. PROVIDE 1-1/4" EMPTY CONDUIT WITH FULL-STRING STUBBED 6" ABOVE ACCESSIBLE CEILING. MOUNT 18" AFF UNLESS INSTRUCTED OTHERWISE BY FURNITURE SYSTEM VENDOR.
 4. EXISTING POWER AND SYSTEMS TO REMAIN.
 5. INSTALL 1" CONDUIT FROM DATA COMPARTMENT TO 6" ABOVE ACCESSIBLE CEILING.
 6. INSTALL 2" CONDUIT FROM DATA COMPARTMENT TO 6" ABOVE ACCESSIBLE CEILING.
 7. LEGRAND EF84SS-OG COMPLETE WITH TWO DUPLEX RECEPTACLES AND EF84SGTGBK COVERPLATE.
 8. PROTECTED WITH GFI BREAKER.
 9. LEGRAND EF84SS-OG COMPLETE WITH DUPLEX RECEPTACLE AND EF84SGTGBK COVERPLATE.
 10. WIRE COMPLETE WITH 2#10 AND 1#10EG - 3/4".
 11. REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR ELECTRICAL INFORMATION.

- ### GENERAL NOTES
1. ALL RECEPTACLES WITHIN 6'-0" OF SINKS SHALL BE GFI.
 2. VERIFY MOUNTING HEIGHTS OF ALL RECEPTACLES MOUNTED IN COUNTER AREAS WITH ARCHITECTURAL ELEVATIONS.
 3. ALL FIRE ALARM NOTIFICATION SHALL BE CEILING MOUNTED WHERE APPLICABLE.
 4. PROVIDE NO. 10 WIRE IN LIEU OF NO. 12 WIRE FOR ANY BRANCH CIRCUIT EXCESS OF 100 FEET (120V) OF CIRCUIT LENGTH TO FARTHEST DEVICE TO PREVENT EXCESSIVE VOLTAGE DROP. PROVIDE NO. 8 WIRE IN LIEU OF NO. 10 WIRE FOR ANY BRANCH CIRCUIT IN EXCESS OF 100 FEET (120V) OF CIRCUIT LENGTH TO FARTHEST DEVICE TO PREVENT EXCESSIVE VOLTAGE DROP.
 5. PROVIDE IN-WALL BLOCKING FOR ALL A/V AND ASSOCIATED TELEVISIONS. COORDINATE WITH ARCHITECT.



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FL REG. NO. PE73853
S/S Date

FGA PROJECT NUMBER
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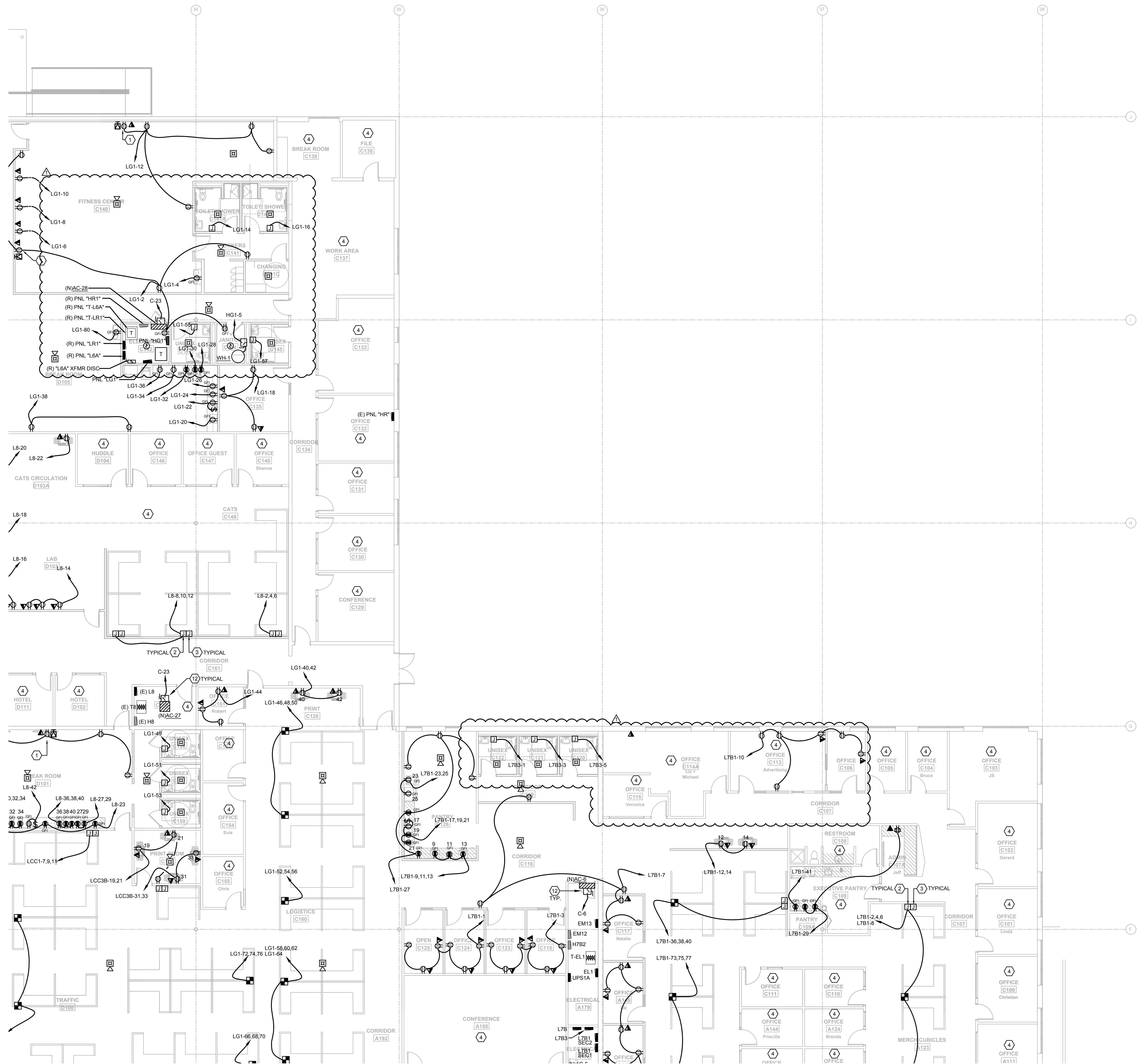
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08-25-21

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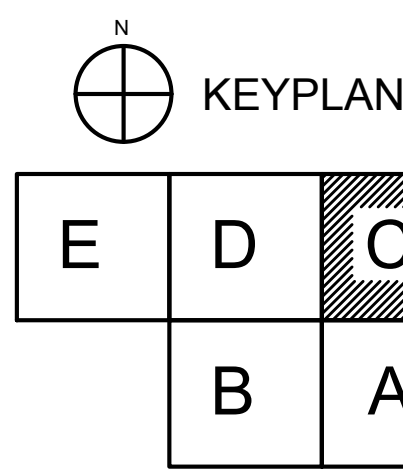
POWER PLAN - B

SHEET NUMBER
E1.10B



- ### KEYNOTE LEGEND
1. PROVIDE LOW VOLTAGE/POWER RECESSED BOX EQUAL TO ARLINGTON #7BUS05. COORDINATE LOCATION WITH OWNER/ARCHITECT.
 2. J-BOX OF ADEQUATE SIZE FOR MODULAR FURNITURE CONNECTION. PROVIDE BUSHED OPENING OPENING IN COVER TO ALL MODULAR FURNITURE WHIP CONNECTION. MOUNT 18" AFF. UNLESS INSTRUCTED OTHERWISE BY FURNITURE SYSTEM VENDOR.
 3. J-BOX FOR MODULAR FURNITURE STRUCTURE CABLING. PROVIDE 1-1/4" EMPTY CONDUIT WITH PULL STRING STUBBED 6" ABOVE ACCESSIBLE CEILING. MOUNT 18" AFF. UNLESS INSTRUCTED OTHERWISE BY FURNITURE SYSTEM VENDOR.
 4. EXISTING POWER AND SYSTEMS TO REMAIN. UNLESS NOTED OTHERWISE.
 5. INSTALL 1" CONDUIT FROM DATA COMPARTMENT TO 6" ABOVE ACCESSIBLE CEILING.
 6. INSTALL 2" CONDUIT FROM DATA COMPARTMENT TO 6" ABOVE ACCESSIBLE CEILING.
 7. LEGRAND EFB45S-OG COMPLETE WITH TWO DUPLEX RECEPTACLES AND EFB45CTCBK COVERPLATE.
 8. PROTECTED WITH GFI BREAKER.
 9. LEGRAND EFB45S-OG COMPLETE WITH DUPLEX RECEPTACLE AND EFB45CTCBK COVERPLATE.
 10. WIRE COMPLETE WITH 2#10 AND 1#10EG - 3/4".
 12. REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR ELECTRICAL INFORMATION.

- ### GENERAL NOTES
1. ALL RECEPTACLES WITHIN 6'-0" OF SINKS SHALL BE GFI.
 2. VERIFY MOUNTING HEIGHTS OF ALL RECEPTACLES MOUNTED IN COUNTER AREAS WITH ARCHITECTURAL ELEVATIONS.
 3. ALL FIRE ALARM NOTIFICATION SHALL BE CEILING MOUNTED WHERE APPLICABLE.
 4. PROVIDE NO. 10 WIRE IN LIEU OF NO. 12 WIRE FOR ANY BRANCH CIRCUIT EXCESS OF 100 FEET (120V) OF CIRCUIT LENGTH TO FARTHEST DEVICE TO PREVENT EXCESSIVE VOLTAGE DROP. PROVIDE NO. 8 WIRE IN LIEU OF NO. 10 WIRE FOR ANY BRANCH CIRCUIT IN EXCESS OF 160 FEET (120V) OF CIRCUIT LENGTH TO FARTHEST DEVICE TO PREVENT EXCESSIVE VOLTAGE DROP.
 5. PROVIDE IN-WALL BLOCKING FOR ALL A/V AND ASSOCIATED TELEVISIONS. COORDINATE WITH ARCHITECT.



POWER PLAN - C 1
1/8" = 1'-0"

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S/S Date

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SHEET NAME

POWER PLAN - C

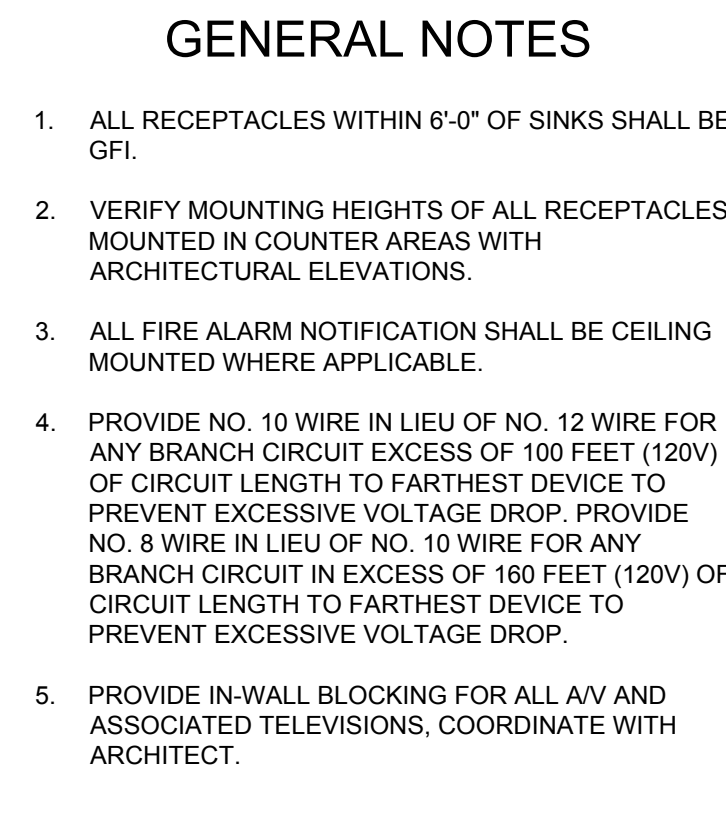
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E1.10C



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| E | D | C |
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SHEET NUMBER
E1.10D

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SAFETY HARBOR, FLORIDA 34686
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FAX (727) 725-3500



FLEISCHMAN
GARCIA

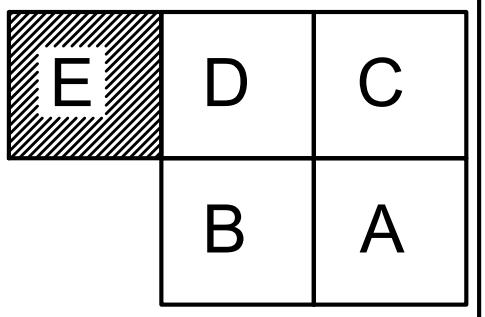
ARCHITECTURE | PLANNING | INTERIORS

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324 WYDE PARK AVENUE, SUITE 300
TEMPLE, TEXAS 76788-4000
PHONE: 817.252-2800
FAX: 817.251-1984

WATKINSVILLE OFFICE
1895 FOURTH AVENUE NORTH
WATKINSVILLE, FLORIDA 34895
PHONE: (772) 732-8000
FAX: (772) 732-8000

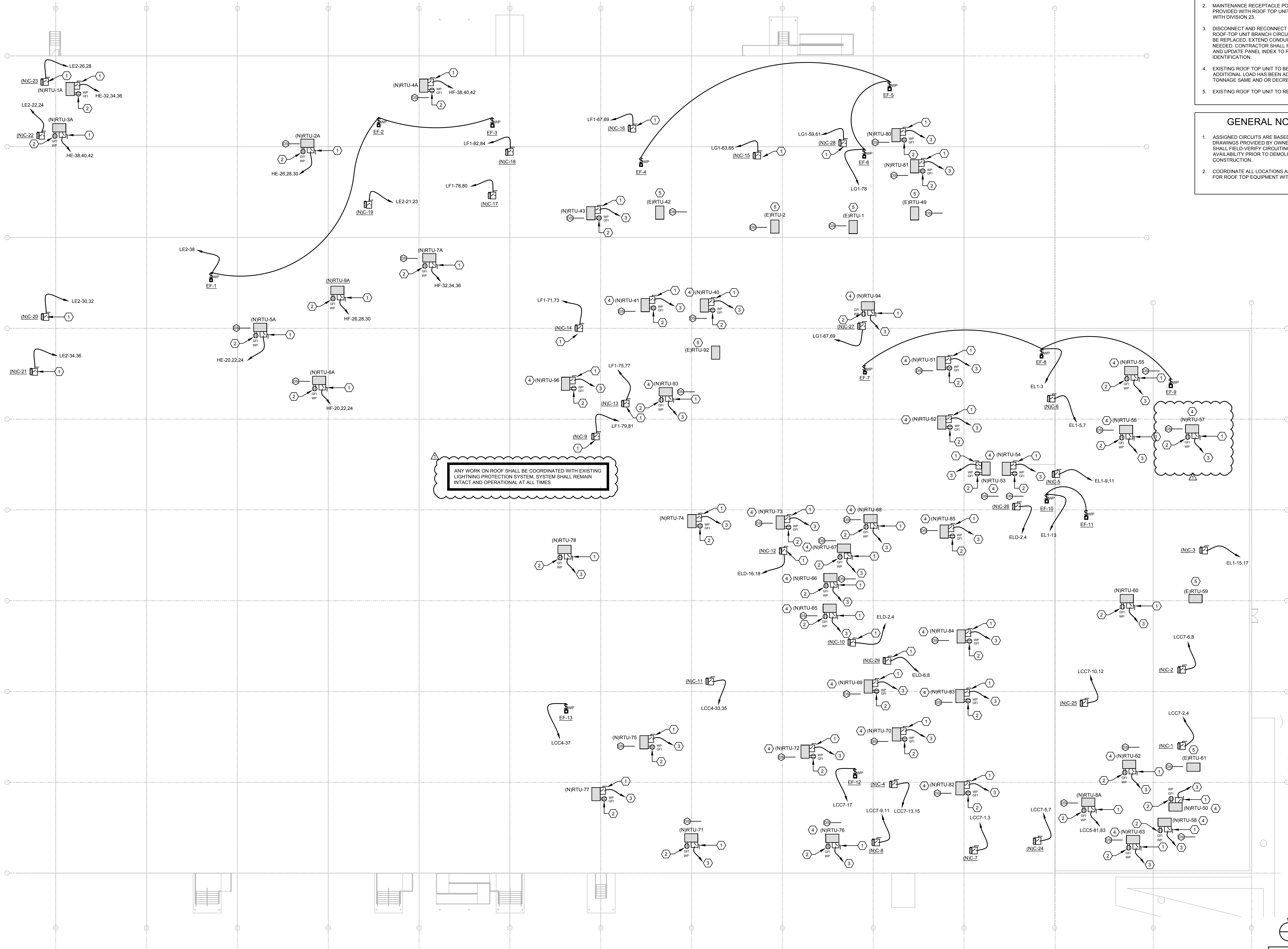
REGISTERED PROFESSIONAL NUMBER 64-000723

SHEET NUMBER
E1.10E



POWER PLAN - E (1)
1/8" = 1'-0"

14. PROJECTS 21003 ROOMS-TO-GO RENOVATION/EXPANSION 21003 ELECTRICAL POWER ROOF LAYOUT [Total Project] - 8/1/2021 - 8/1/2021



- KEYNOTE LEGEND**
1. REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR DISCONNECT AND FEEDER INFORMATION.
 2. MAINTENANCE RECEPTACLE POWERED FROM AND PROVIDED WITH ROOF TOP UNIT. COORDINATE WITH DIVISION 23.
 3. DISCONNECT AND RECONNECT TO EXISTING ROOF-TOP UNIT BRANCH CIRCUIT SERVING UNIT TO BE REPLACED. EXTEND CONDUIT AND WIRE AS NEEDED. CONTRACTOR SHALL RING-OUT CIRCUIT AND UPDATE PANEL INDEX TO REFLECT CURRENT IDENTIFICATION.
 4. EXISTING ROOF TOP UNIT TO BE REPLACED. NO ADDITIONAL LOAD HAS BEEN ADDED. UNIT TONNAGE SAME AND OR DECREASED.
 5. EXISTING ROOF TOP UNIT TO REMAIN.

- GENERAL NOTES**
1. ASSIGNED CIRCUITS ARE BASED OFF AS-BUILT DRAWINGS PROVIDED BY OWNER. CONTRACTOR SHALL FIELD-VERIFY CIRCUITING AND CIRCUIT AVAILABILITY PRIOR TO DEMOLITION AND CONSTRUCTION.
 2. COORDINATE ALL LOCATIONS AND REQUIREMENTS FOR ROOF TOP EQUIPMENT WITH DIVISION 23.



| | | |
|---|---|---|
| E | D | C |
| B | | A |

POWER ROOF PLAN 1
1/16" = 1'-0"

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| 1 | 08-13-21 | ADDENDUM #2 |
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SHEET NAME

POWER ROOF PLAN

SHEET NUMBER
E1.20



KEYNOTE LEGEND

1. CONNECT LIGHTING IN THIS SPACE TO EXISTING LOCAL LIGHTING CIRCUIT AND CONTROLS. DISCONNECT AND RE-INSTALL LIGHTING CONTROLS IN NEW CEILING WHERE APPLICABLE.
2. CONNECT LIGHTING IN THIS SPACE TO EXISTING LOCAL LIGHTING CIRCUIT. CONNECT TO LOCAL CONTROLS AS SHOWN.
3. LIGHTING AND CONTROLS IN THIS AREA SHALL BE EXISTING TO REMAIN.
4. LOW VOLTAGE MOMENTARY SWITCH, LETTER DESIGNATES CONTROL, INTENT.
5. DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH.
6. LOW VOLTAGE DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR, COVERAGE AS REQUIRED.
7. PROVIDE CEILING MOUNTED OCCUPANCY SENSOR AND REQUIRED POWER PACK FOR A MAXIMUM CONTROLLED AREA OF 600 SQFT IN OPEN OFFICE SPACE PER FBC.
8. "NL" DESIGNATES NIGHT LIGHT, FIXTURE SHALL BE INSTALLED AHEAD OF ANY LOCAL CONTROL AND/OR SWITCHING.
9. ALL EXIT AND EMERGENCY LIGHTING SHALL BE CONNECTED AHEAD OF ANY LOCAL CONTROL AND/OR SWITCHING.
10. CONNECT TO EXISTING UN-SWITCHED LIGHTING CIRCUIT CURRENTLY SERVING SPACE.

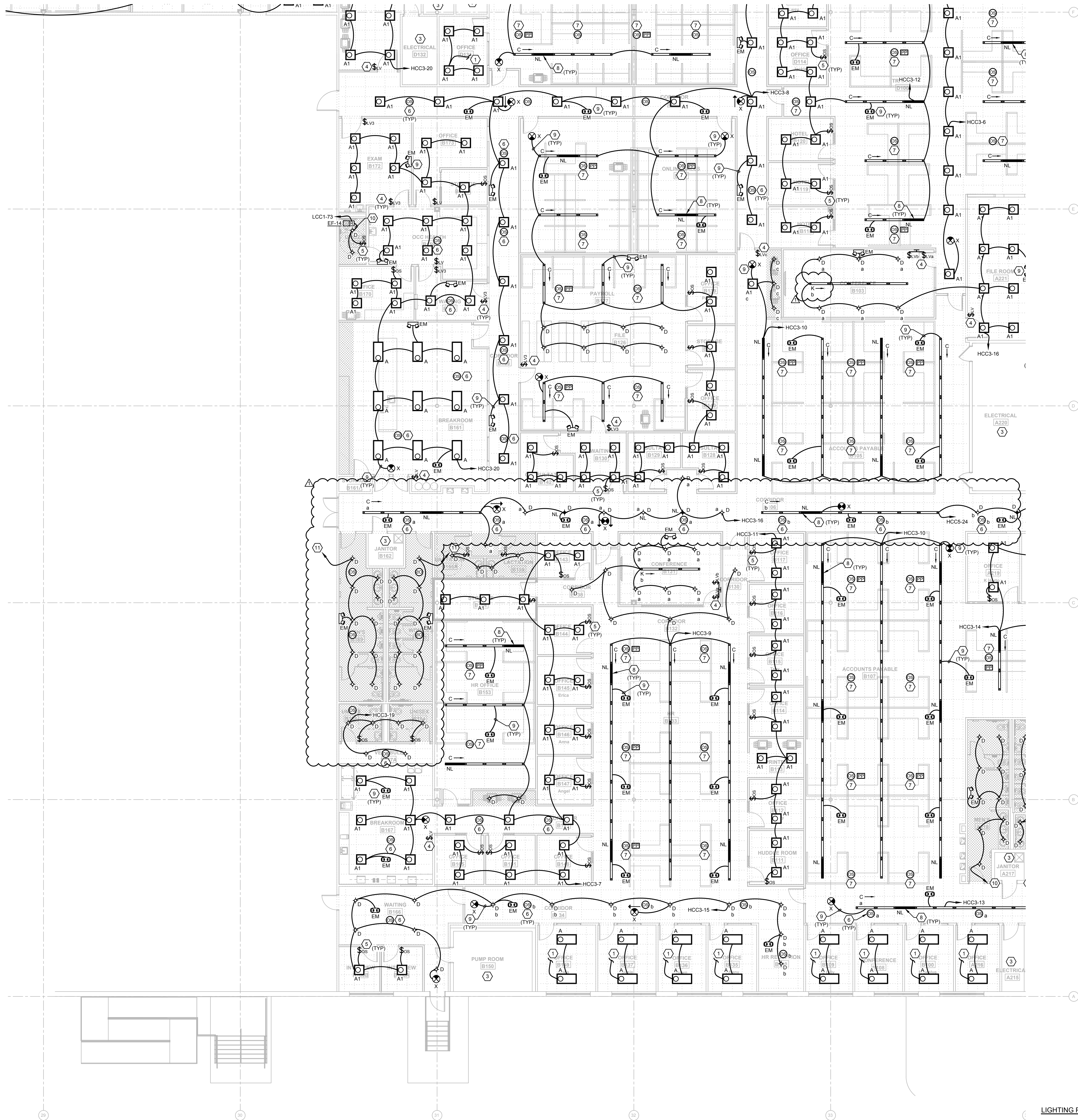
1. CONNECT LIGHTING IN THIS SPACE TO EXISTING LOCAL LIGHTING CIRCUIT AND CONTROLS. DISCONNECT AND RE-INSTALL LIGHTING CONTROLS IN NEW CEILING WHERE APPLICABLE
2. CONNECT LIGHTING IN THIS SPACE TO EXISTING LOCAL LIGHTING CIRCUIT. CONNECT TO LOCAL CONTROLS AS SHOWN.
3. LIGHTING AND CONTROLS IN THIS AREA SHALL BE EXISTING TO REMAIN.
4. LOW VOLTAGE MOMENTARY SWITCH, LETTER DESIGNATES CONTROL INTENT.
5. DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH.
6. LOW VOLTAGE DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR, COVERAGE AS REQUIRED.
7. PROVIDE CEILING MOUNTED OCCUPANCY SENSOR AND REQUIRED POWER PACK FOR A MAXIMUM CONTROLLED AREA OF 600 SQFT IN OPEN OFFICE SPACE PER FBC.
8. "NL" DESIGNATES NIGHT LIGHT, FIXTURE SHALL BE WIRED AHEAD OF ANY LOCAL CONTROL AND/OR SWITCHING.
9. ALL EXIT AND EMERGENCY LIGHTING SHALL BE CONNECTED AHEAD OF ANY LOCAL CONTROL AND/OR SWITCHING.
10. CONNECT TO EXISTING UN-SWITCHED LIGHTING CIRCUIT CURRENTLY SERVING SPACE.

SHEET NUMBER
E2.10A

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LIGHTING PLAN

SHEET NUMBER
E2.10A



GENERAL NOTES

- REFER TO ARCHITECTURAL DRAWINGS FOR ALL DEVICE LOCATIONS AND FINISHES PRIOR TO CONSTRUCTION.
- WIRE COUNTS FOR CIRCUIT CONDUCTORS ARE NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUIT AND SWITCHING CONNECTIONS SHOWN.
- MODIFICATIONS TO NUMBER OF CONDUCTORS IN HOME RUNS IN ADDITION TO CIRCUITS INDICATED ON THIS DRAWING ARE PROHIBITED.
- PROVIDE OCCUPANCY SENSORS AND ALL ASSOCIATED HARDWARE, POWER PACKS AND/OR TRANSFORMERS AS REQUIRED FOR A COMPLETE INSTALLATION PER MANUFACTURER REQUIREMENTS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS INDICATING DESIRED COVERAGE. IN LOCATIONS WHERE NO WALL SWITCH IS SHOWN THE OCCUPANCY SWITCH SHALL SERVE AS THE ONLY SWITCHING MEANS. IN LOCATIONS WHERE WALL SWITCHES ARE PROVIDED, THE WALL SWITCHES SHALL BE WIRED TO ACT AS AN OVERRIDE OFF SWITCH TO THE OCCUPANCY SENSOR.
- PROVIDE NO. 10 WIRE IN LIEU OF NO. 12 WIRE FOR ANY BRANCH CIRCUIT EXCESS OF 100 FEET (120V) OF CIRCUIT LENGTH TO FARTHEST DEVICE TO PREVENT EXCESSIVE VOLTAGE DROP. PROVIDE NO. 8 WIRE IN LIEU OF NO. 10 WIRE FOR ANY BRANCH CIRCUIT IN EXCESS OF 100 FEET (120V) OF CIRCUIT LENGTH TO FARTHEST DEVICE TO PREVENT EXCESSIVE VOLTAGE DROP.
- ASSIGNED CIRCUITS ARE BASED OFF AS-BUILT DRAWINGS PROVIDED BY OWNER. CONTRACTOR SHALL FIELD-VERIFY CIRCUITING AND CIRCUIT AVAILABILITY PRIOR TO DEMOLITION AND CONSTRUCTION.

KEYNOTE LEGEND

- CONNECT LIGHTING IN THIS SPACE TO EXISTING LOCAL LIGHTING CIRCUIT AND CONTROLS.
- CONNECT LIGHTING IN THIS SPACE TO EXISTING LOCAL LIGHTING CIRCUIT. CONNECT TO LOCAL CONTROLS AS SHOWN.
- LIGHTING AND CONTROLS IN THIS AREA SHALL BE EXISTING TO REMAIN.
- LOW VOLTAGE MOMENTARY SWITCH, LETTER DESIGNATES CONTROL INTENT.
- DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH.
- LOW VOLTAGE DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR, COVERAGE AS REQUIRED.
- PROVIDE CEILING MOUNTED OCCUPANCY SENSOR AND REQUIRED POWER PACK FOR A MAXIMUM CONTROLLED AREA OF 600 SQFT IN OPEN OFFICE SPACE PER FBC.
- "NL" DESIGNATES NIGHT LIGHT, FIXTURE SHALL BE WIRED AHEAD OF ANY LOCAL CONTROL AND/OR SWITCHING.
- ALL EXIT AND EMERGENCY LIGHTING SHALL BE CONNECTED AHEAD OF ANY LOCAL CONTROL AND/OR SWITCHING.
- PROVIDE RELAY WITH 277V COIL FOR FAN INTERLOCK WITH LIGHTING CONTROL. PROVIDE 120V CIRCUIT FOR FAN POWER VIA RELAY CONTACTS. REFER TO MECHANICAL DRAWINGS FOR FURTHER INFORMATION.
- CONNECT TO EXISTING UN-SWITCHED LIGHTING CIRCUIT CURRENTLY SERVING SPACE.

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WWW.EMERALDNEP.COM
EEL PROJECT # 210120

ADAM T. POWELL, PE
FL REG. NO. PE73853
S/S Date

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SAFETY HARBOR, FL 34629
PHONE (813) 331-4800
FAX (813) 331-1944
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ADAM T. POWELL, PE
FL REG. NO. PE73853
S/S Date

ROOMS TO GO OFFICES RENOVATION AND EXPANSION

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I CERTIFY TO THE BEST OF MY KNOWLEDGE THAT THESE DRAWINGS COMPLY WITH ALL RELEVANT BUILDING CODES.

BID SET

ADAM T. POWELL, PE
FL REG. NO. PE73853
S/S Date

FGA PROJECT NUMBER
21003

ISSUE DATE
08-25-21

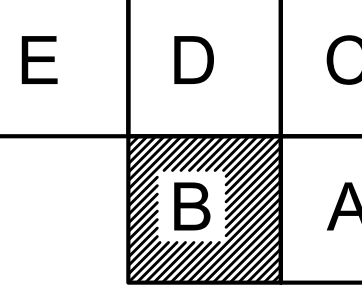
| NO. | DATE | NOTES |
|-----|----------|-------------|
| 1 | 08-13-21 | ADDENDUM #2 |
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SHEET NAME

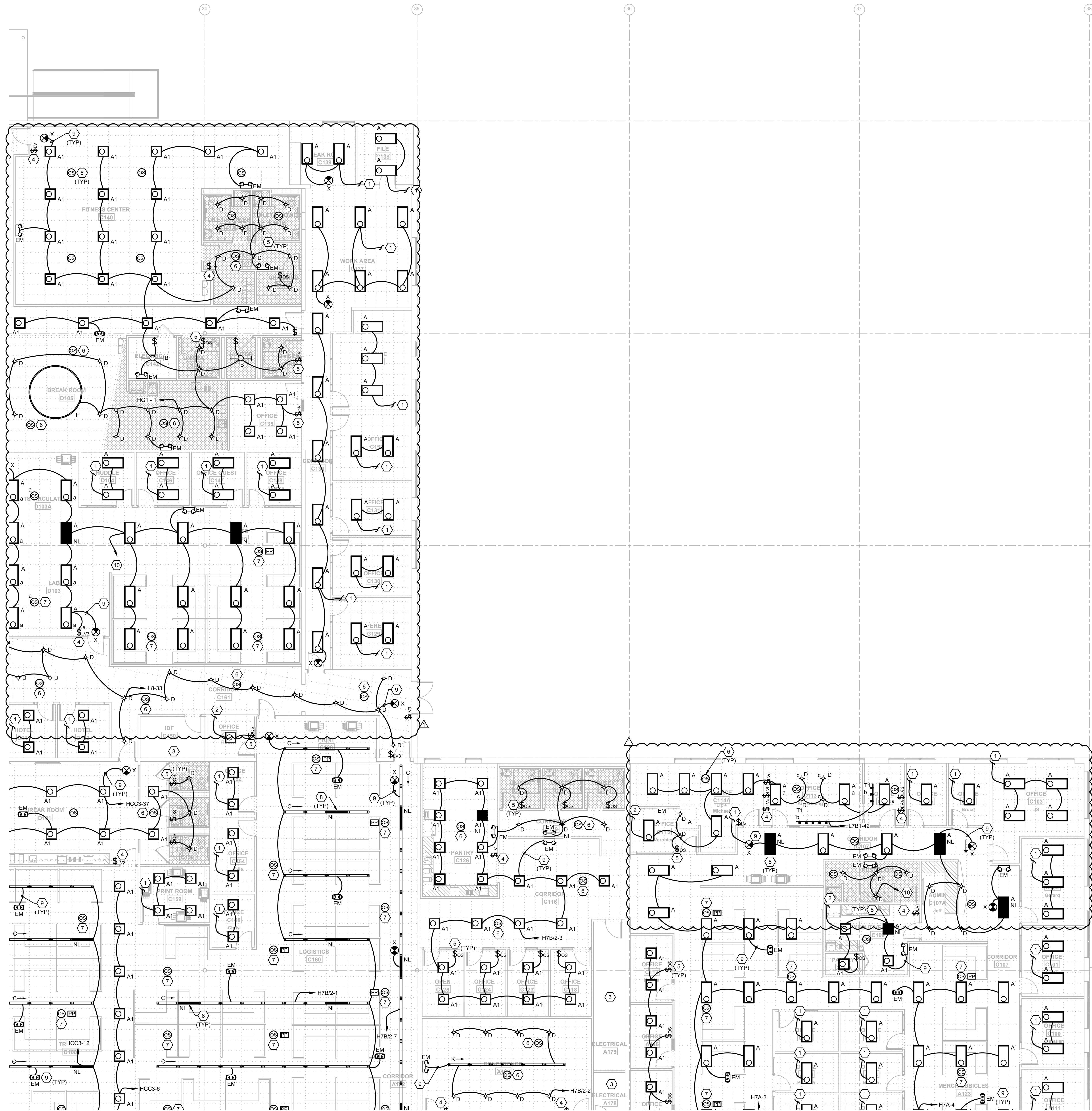
LIGHTING PLAN - B

SHEET NUMBER
E2.10B

KEYPLAN



LIGHTING PLAN - B
1/8" = 1'-0"



GENERAL NOTES

1. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DEVICE LOCATIONS AND FINISHES PRIOR TO CONSTRUCTION.
2. WIRE COUNTS FOR CIRCUIT CONDUCTORS ARE NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUIT AND SWITCHING CONNECTIONS SHOWN.
3. MODIFICATIONS TO NUMBER OF CONDUCTORS IN HOME RUNS IN ADDITION TO CIRCUITS INDICATED ON THIS DRAWING ARE PROHIBITED.
4. PROVIDE OCCUPANCY SENSORS AND ALL ASSOCIATED HARDWARE, POWER PACKS AND/OR TRANSFORMERS AS REQUIRED FOR A COMPLETE INSTALLATION PER MANUFACTURER REQUIREMENTS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS INDICATING DESIRED COVERAGE. IN LOCATIONS WHERE NO WALL SWITCH IS SHOWN THE OCCUPANCY SWITCH SHALL SERVE AS THE ONLY SWITCHING MEANS. IN LOCATIONS WHERE WALL SWITCHES ARE PROVIDED, THE WALL SWITCHES SHALL BE WIRED TO ACT AS AN OVERRIDE OFF SWITCH TO THE OCCUPANCY SENSOR.
5. PROVIDE NO. 10 WIRE IN LIEU OF NO. 12 WIRE FOR ANY BRANCH CIRCUIT EXCESS OF 100 FEET (120V) OF CIRCUIT LENGTH TO FARTHEST DEVICE TO PREVENT EXCESSIVE VOLTAGE DROP. PROVIDE NO. 8 WIRE IN LIEU OF NO. 10 WIRE FOR ANY BRANCH CIRCUIT IN EXCESS OF 100 FEET (120V) OF CIRCUIT LENGTH TO FARTHEST DEVICE TO PREVENT EXCESSIVE VOLTAGE DROP.
6. ASSIGNED CIRCUITS ARE BASED OFF AS-BUILT DRAWINGS PROVIDED BY OWNER. CONTRACTOR SHALL FIELD-VERIFY CIRCUITING AND CIRCUIT AVAILABILITY PRIOR TO DEMOLITION AND CONSTRUCTION.

KEYNOTE LEGEND

1. CONNECT LIGHTING IN THIS SPACE TO EXISTING LOCAL LIGHTING CIRCUIT AND CONTROLS. DISCONNECT AND RE-INSTALL LIGHTING CONTROLS IN NEW CEILING WHERE APPLICABLE.
2. CONNECT LIGHTING IN THIS SPACE TO EXISTING LOCAL LIGHTING CIRCUIT. CONNECT TO LOCAL CONTROLS AS SHOWN.
3. LIGHTING AND CONTROLS IN THIS AREA SHALL BE EXISTING TO REMAIN.
4. LOW VOLTAGE MOMENTARY SWITCH, LETTER DESIGNATES CONTROL INTENT.
5. DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH.
6. LOW VOLTAGE DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR, COVERAGE AS REQUIRED.
7. PROVIDE CEILING MOUNTED OCCUPANCY SENSOR AND REQUIRED POWER PACK FOR A MAXIMUM CONTROLLED AREA OF 600 SQFT IN OPEN OFFICE SPACE PER FBC.
8. "NL" DESIGNATES NIGHT LIGHT, FIXTURE SHALL BE WIRED AHEAD OF ANY LOCAL CONTROL AND/OR SWITCHING.
9. ALL EXIT AND EMERGENCY LIGHTING SHALL BE CONNECTED AHEAD OF ANY LOCAL CONTROL AND/OR SWITCHING.
10. CONNECT TO EXISTING UN-SWITCHED LIGHTING CIRCUIT CURRENTLY SERVING SPACE.



| | | |
|---|---|---|
| E | D | C |
| B | A | |

LIGHTING PLAN - C 1
1/8" = 1'-0"

EMERALD ENGINEERING INC.
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EEL PROJECT # 210120

ADAM T. POWELL, PE
FL REG. NO. PE73853
S/S Date
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21003

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ADAM T. POWELL, PE
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S/S Date
FGA PROJECT NUMBER
21003

ROOMS TO GO
OFFICES RENOVATION AND EXPANSION

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FL REG. NO. PE73853
S/S Date

FGA PROJECT NUMBER
21003

ISSUE DATE
08-25-21

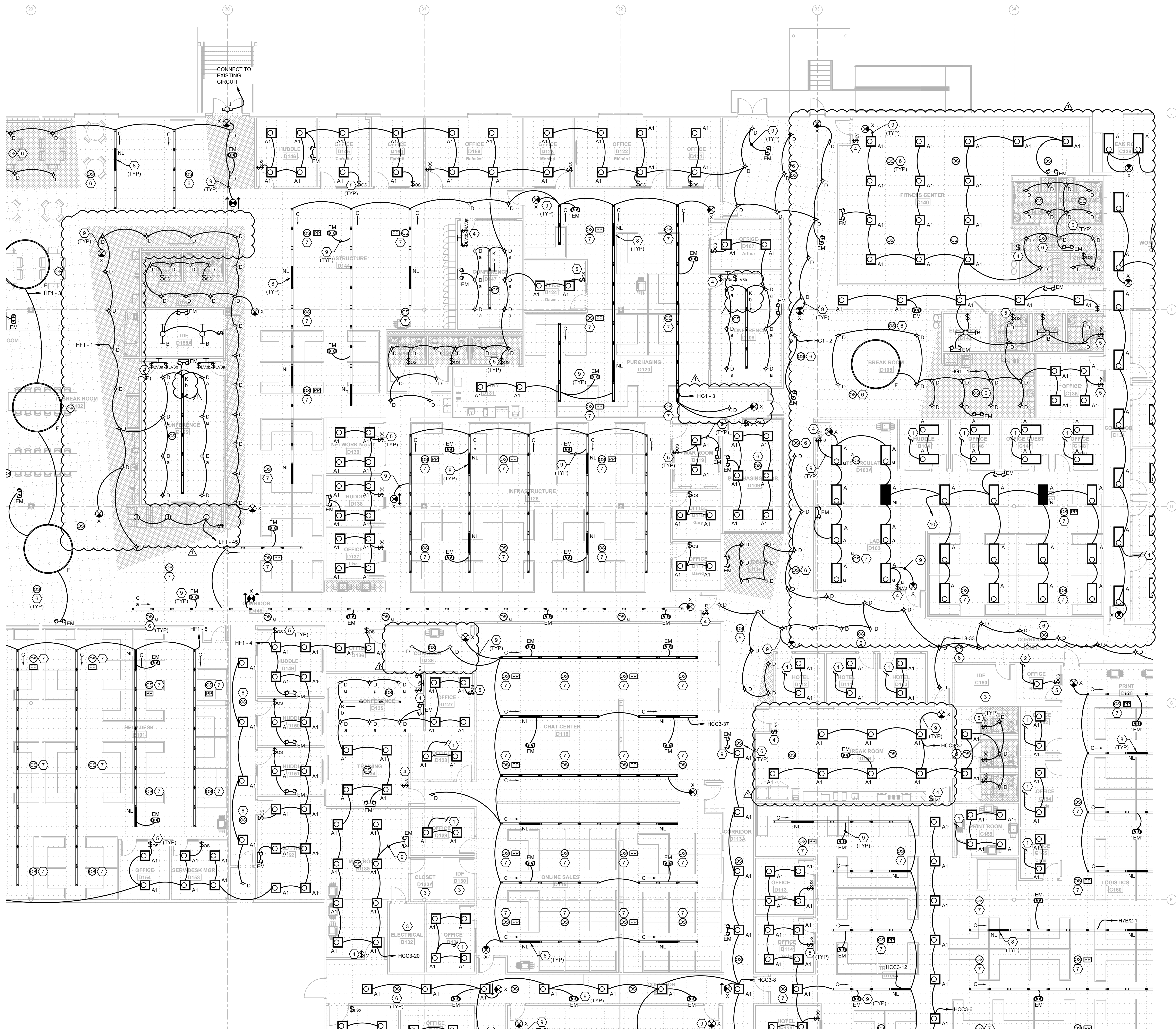
| NO. | DATE | NOTES |
|-----|----------|-------------|
| 1 | 08-13-21 | ADDENDUM #2 |
| | | |
| | | |
| | | |

SHEET NAME

LIGHTING PLAN - C

SHEET NUMBER
E2.10C

18" = 1'-0"



GENERAL NOTES

1. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DEVICE LOCATIONS AND FINISHES PRIOR TO CONSTRUCTION.
2. WIRE COUNTS FOR CIRCUIT CONDUCTORS ARE NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUIT AND SWITCHING CONNECTIONS SHOWN.
3. MODIFICATIONS TO NUMBER OF CONDUCTORS IN HOME RUNS IN ADDITION TO CIRCUITS INDICATED ON THIS DRAWING ARE PROHIBITED.
4. PROVIDE OCCUPANCY SENSORS AND ALL ASSOCIATED HARDWARE, POWER PACKS AND/OR TRANSFORMERS AS REQUIRED FOR A COMPLETE INSTALLATION PER MANUFACTURER REQUIREMENTS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS INDICATING DESIRED COVERAGE. IN LOCATIONS WHERE NO WALL SWITCH IS SHOWN THE OCCUPANCY SWITCH SHALL SERVE AS THE ONLY SWITCHING MEANS. IN LOCATIONS WHERE WALL SWITCHES ARE PROVIDED, THE WALL SWITCHES SHALL BE WIRED TO ACT AS AN OVERRIDE OFF SWITCH TO THE OCCUPANCY SENSOR.
5. PROVIDE NO. 10 WIRE IN LIEU OF NO. 12 WIRE FOR ANY BRANCH CIRCUIT EXCESS OF 100 FEET (120V) OF CIRCUIT LENGTH TO FARTHEST DEVICE TO PREVENT EXCESSIVE VOLTAGE DROP. PROVIDE NO. 8 WIRE IN LIEU OF NO. 10 WIRE FOR ANY BRANCH CIRCUIT IN EXCESS OF 100 FEET (120V) OF CIRCUIT LENGTH TO FARTHEST DEVICE TO PREVENT EXCESSIVE VOLTAGE DROP.
6. ASSIGNED CIRCUITS ARE BASED OFF AS-BUILT DRAWINGS PROVIDED BY OWNER. CONTRACTOR SHALL FIELD-VERIFY CIRCUITING AND CIRCUIT AVAILABILITY PRIOR TO DEMOLITION AND CONSTRUCTION.

KEYNOTE LEGEND

1. CONNECT LIGHTING IN THIS SPACE TO EXISTING LOCAL LIGHTING CIRCUIT AND CONTROLS. DISCONNECT AND RE-INSTALL LIGHTING CONTROLS IN NEW CELLS WHERE APPLICABLE.
2. CONNECT LIGHTING IN THIS SPACE TO EXISTING LOCAL LIGHTING CIRCUIT. CONNECT TO LOCAL CONTROLS AS SHOWN.
3. LIGHTING AND CONTROLS IN THIS AREA SHALL BE EXISTING TO REMAIN.
4. LOW VOLTAGE MOMENTARY SWITCH, LETTER DESIGNATES CONTROL INTENT.
5. DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH.
6. LOW VOLTAGE DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR, COVERAGE AS REQUIRED.
7. PROVIDE CEILING MOUNTED OCCUPANCY SENSOR AND REQUIRED POWER PACK FOR A MAXIMUM CONTROLLED AREA OF 600 SQFT IN OPEN OFFICE SPACE PER FBC.
8. "NL" DESIGNATES NIGHT LIGHT, FIXTURE SHALL BE WIRED AHEAD OF ANY LOCAL CONTROL AND/OR SWITCHING.
9. ALL EXIT AND EMERGENCY LIGHTING SHALL BE CONNECTED AHEAD OF ANY LOCAL CONTROL AND/OR SWITCHING.
10. CONNECT TO EXISTING UN-SWITCHED LIGHTING CIRCUIT CURRENTLY SERVING SPACE.



| | | |
|---|---|---|
| E | D | C |
| B | A | |

LIGHTING PLAN - D

EMERALD ENGINEERING INC.
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ROOMS TO GO
OFFICES RENOVATION AND EXPANSION

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BID SET

ADAM T. POWELL, PE
FL REG. NO. PE73853
S/S Date

FGA PROJECT NUMBER
21003

ISSUE DATE
08-25-21

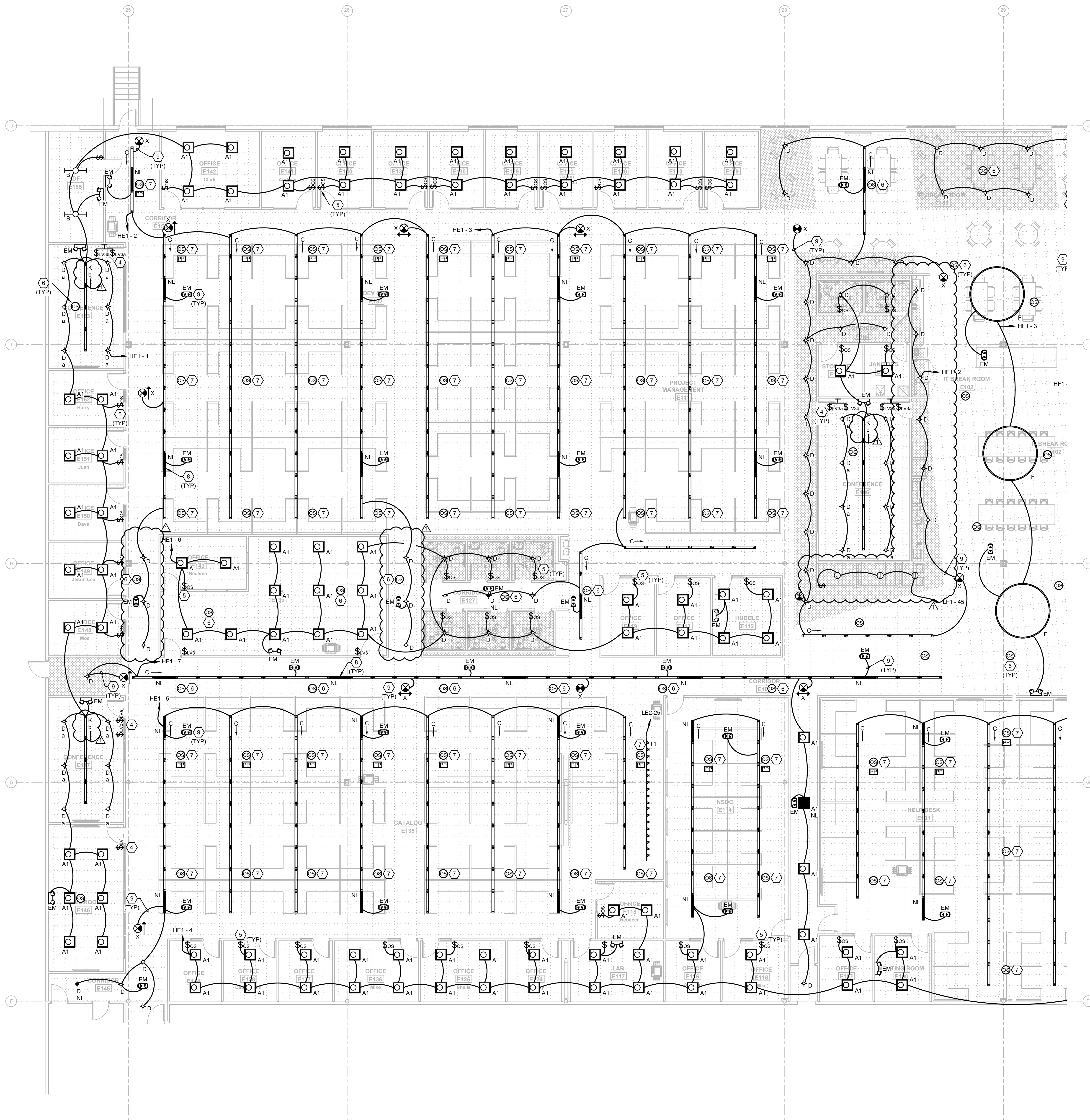
| NO. | DATE | NOTES |
|-----|----------|-------------|
| 1 | 08-13-21 | ADDENDUM #2 |

SHEET NAME

LIGHTING PLAN - D

SHEET NUMBER
E2.10D

\\PROJECTS\210120 ROOMS-TO-GO RENOVATION\DRAWINGS\210120 ELECTRICAL LIGHTING LEVEL 1000 - Detail Project1 - Sep. 13, 2021 - 8:17am



LIGHTING PLAN - E 1
1/8" = 1'-0"

GENERAL NOTES

1. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DEVICE LOCATIONS AND FINISHES PRIOR TO CONSTRUCTION.
2. WIRE COUNTS FOR CIRCUIT CONDUCTORS ARE NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUIT AND SWITCHING CONNECTIONS SHOWN.
3. MODIFICATIONS TO NUMBER OF CONDUCTORS IN HOME RUNS IN ADDITION TO CIRCUITS INDICATED ON THIS DRAWING ARE PROHIBITED.
4. PROVIDE OCCUPANCY SENSORS AND ALL ASSOCIATED HARDWARE, POWER PACKS AND/OR TRANSFORMERS AS REQUIRED FOR A COMPLETE INSTALLATION PER MANUFACTURER REQUIREMENTS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS INDICATING DESIRED COVERAGE. IN LOCATIONS WHERE NO WALL SWITCH IS SHOWN THE OCCUPANCY SWITCH SHALL SERVE AS THE ONLY SWITCHING MEANS. IN LOCATIONS WHERE WALL SWITCHES ARE PROVIDED, THE WALL SWITCHES SHALL BE WIRED TO ACT AS AN OVERRIDE OFF SWITCH TO THE OCCUPANCY SENSOR.
5. PROVIDE NO. 10 WIRE IN LIEU OF NO. 12 WIRE FOR ANY BRANCH CIRCUIT EXCESS OF 100 FEET (120V) OF CIRCUIT LENGTH TO FARTHEST DEVICE TO PREVENT EXCESSIVE VOLTAGE DROP. PROVIDE NO. 8 WIRE IN LIEU OF NO. 10 WIRE FOR ANY BRANCH CIRCUIT IN EXCESS OF 160 FEET (120V) OF CIRCUIT LENGTH TO FARTHEST DEVICE TO PREVENT EXCESSIVE VOLTAGE DROP.
6. ASSIGNED CIRCUITS ARE BASED OFF AS-BUILT DRAWINGS PROVIDED BY OWNER. CONTRACTOR SHALL FIELD-VERIFY CIRCUITING AND CIRCUIT AVAILABILITY PRIOR TO DEMOLITION AND CONSTRUCTION.

KEYNOTE LEGEND

1. CONNECT LIGHTING IN THIS SPACE TO EXISTING LOCAL LIGHTING CIRCUIT AND CONTROLS.
2. CONNECT LIGHTING IN THIS SPACE TO EXISTING LOCAL LIGHTING CIRCUIT. CONNECT TO LOCAL CONTROLS AS SHOWN.
3. LIGHTING AND CONTROLS IN THIS AREA SHALL BE EXISTING TO REMAIN.
4. LOW VOLTAGE MOMENTARY SWITCH, LETTER DESIGNATES CONTROL INTENT.
5. DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH.
6. LOW VOLTAGE DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR, COVERAGE AS REQUIRED.
7. PROVIDE CEILING MOUNTED OCCUPANCY SENSOR AND REQUIRED POWER PACK FOR A MAXIMUM CONTROLLED AREA OF 600 SQFT IN OPEN OFFICE SPACE PER FSC.
8. "NL" DESIGNATES NIGHT LIGHT. FIXTURE SHALL BE WIRED AHEAD OF ANY LOCAL CONTROL AND/OR SWITCHING.
9. ALL EXIT AND EMERGENCY LIGHTING SHALL BE CONNECTED AHEAD OF ANY LOCAL CONTROL AND/OR SWITCHING.



KEYPLAN

| | |
|---|---|
| D | C |
| B | A |

EMERALD
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PROJECT # 210120

ADAM T. POWELL, PE
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S/S Date

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ROOMS TO GO OFFICES RENOVATION AND EXPANSION

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BID SET

ADAM T. POWELL, PE
FL REG. NO. PE73853
S/S Date

FGA PROJECT NUMBER
21003

ISSUE DATE
08-25-21

| NO. | DATE | NOTES |
|-----|----------|-------------|
| 1 | 08-13-21 | ADDENDUM #2 |
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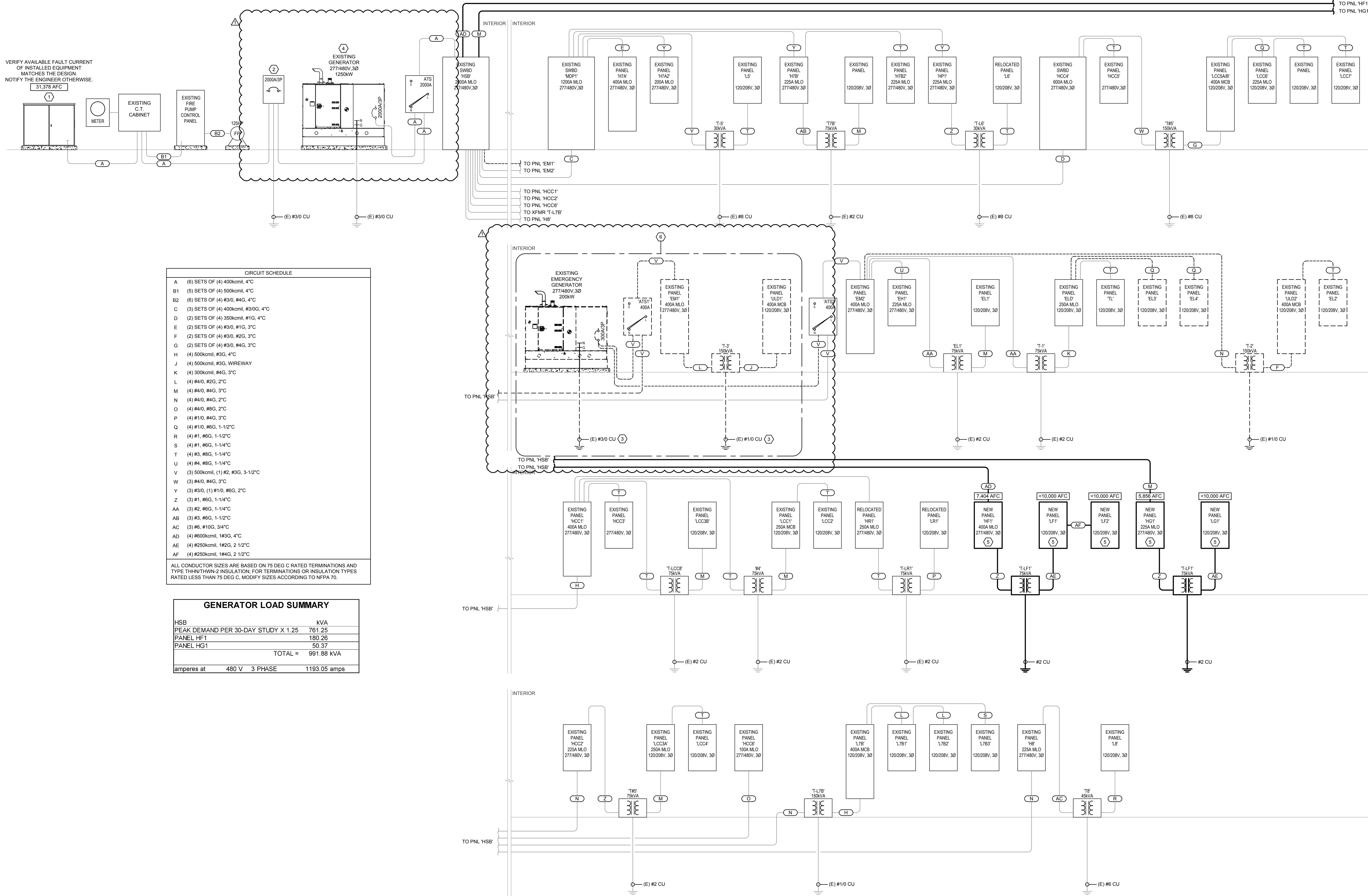
SHEET NAME

LIGHTING PLAN - E

SHEET NUMBER
E2.10E



\\PROJECTS\210120 ROOMS-TO-GO RENOVATION\DRAWINGS\210120 ELECTRICAL\NON PLAN SHEETS\DWG 1 Sep 13,2020 - 8:17am



ROOMS TO GO
OFFICES RENOVATION AND EXPANSION

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ADAM T. POWELL, PE
FL REG. NO. PE73853
S/S Date

FGA PROJECT NUMBER
21003

ISSUE DATE
08-25-21

| NO | DATE | NOTES |
|----|----------|-------------|
| 1 | 08-13-21 | ADDENDUM #2 |
| | | |
| | | |
| | | |

SHEET NAME

RISER DIAGRAMS

SHEET NUMBER
E5.00

EMERALD ENGINEERING INC.
9942 CURRIE DAVIS DR. STE H, TAMPA, FL 33619
TEL (813) 995-0300
WWW.EMERALDPEI.COM
PROJECT # 210120

ADAM T. POWELL, PE
FL REG. NO. PE73853
S/S Date

ADAM T. POWELL, PE
FL REG. NO. PE73853
S/S Date

ADAM T. POWELL, PE
FL REG. NO. PE73853
S/S Date

| EQUIPMENT SCHEDULE | | | | | | |
|--------------------|---------|-------|---------|----------|--------|-------------------------|
| TAG | VOLTAGE | PHASE | PHASE | NEUTRAL | GROUND | DISCONNECT MEANS |
| (E)RTU-1 | | | | | | |
| RTU-1A | 480 | 3 | (3) #10 | N/A | #10 | PROVIDED BY DIVISION 23 |
| RTU-2A | 480 | 3 | (3) #3 | N/A | #8 | PROVIDED BY DIVISION 23 |
| RTU-3A | 480 | 3 | (3) #12 | N/A | #12 | PROVIDED BY DIVISION 23 |
| RTU-4A | 480 | 3 | (3) #8 | N/A | #10 | PROVIDED BY DIVISION 23 |
| RTU-5A | 480 | 3 | (3) #4 | N/A | #8 | PROVIDED BY DIVISION 23 |
| RTU-6A | 480 | 3 | (3) #8 | N/A | #10 | PROVIDED BY DIVISION 23 |
| RTU-7A | 480 | 3 | (3) #6 | N/A | #10 | PROVIDED BY DIVISION 23 |
| RTU-8A | 208 | 1 | (2) #8 | N/A | #10 | PROVIDED BY DIVISION 23 |
| RTU-9A | 480 | 3 | (3) #12 | N/A | #12 | PROVIDED BY DIVISION 23 |
| RTU-40 | 480 | 3 | (3) #8 | N/A | #10 | PROVIDED BY DIVISION 23 |
| RTU-41 | 480 | 3 | (3) #4 | N/A | #8 | PROVIDED BY DIVISION 23 |
| (E)RTU-42 | | | | | | |
| RTU-43 | 480 | 3 | | EXISTING | | PROVIDED BY DIVISION 23 |
| (E)RTU-49 | | | | | | |
| RTU-50 | 480 | 3 | | EXISTING | | PROVIDED BY DIVISION 23 |
| RTU-51 | 480 | 3 | | EXISTING | | PROVIDED BY DIVISION 23 |
| RTU-52 | 480 | 3 | | EXISTING | | PROVIDED BY DIVISION 23 |
| RTU-53 | 480 | 3 | | EXISTING | | PROVIDED BY DIVISION 23 |
| RTU-54 | 480 | 3 | | EXISTING | | PROVIDED BY DIVISION 23 |
| RTU-55 | 480 | 3 | | EXISTING | | PROVIDED BY DIVISION 23 |
| RTU-56 | 480 | 3 | | EXISTING | | PROVIDED BY DIVISION 23 |
| RTU-57 | 480 | 3 | | EXISTING | | PROVIDED BY DIVISION 23 |
| RTU-58 | 208 | 1 | | EXISTING | | PROVIDED BY DIVISION 23 |
| (E)RTU-59 | | | | | | |
| RTU-60 | 480 | 3 | | EXISTING | | PROVIDED BY DIVISION 23 |
| (E)RTU-61 | | | | | | |
| RTU-62 | 480 | 3 | | EXISTING | | PROVIDED BY DIVISION 23 |
| RTU-63 | 480 | 3 | | EXISTING | | PROVIDED BY DIVISION 23 |
| RTU-65 | 480 | 3 | | EXISTING | | PROVIDED BY DIVISION 23 |
| RTU-66 | 480 | 3 | | EXISTING | | PROVIDED BY DIVISION 23 |
| RTU-67 | 480 | 3 | | EXISTING | | PROVIDED BY DIVISION 23 |
| RTU-68 | 480 | 3 | | EXISTING | | PROVIDED BY DIVISION 23 |
| RTU-69 | 480 | 3 | | EXISTING | | PROVIDED BY DIVISION 23 |
| RTU-70 | 480 | 3 | | EXISTING | | PROVIDED BY DIVISION 23 |
| RTU-71 | 480 | 3 | | EXISTING | | PROVIDED BY DIVISION 23 |
| RTU-72 | 480 | 3 | | EXISTING | | PROVIDED BY DIVISION 23 |
| RTU-73 | 480 | 3 | | EXISTING | | PROVIDED BY DIVISION 23 |
| RTU-74 | 480 | 3 | | EXISTING | | PROVIDED BY DIVISION 23 |
| RTU-75 | 480 | 3 | | EXISTING | | PROVIDED BY DIVISION 23 |
| RTU-76 | 480 | 3 | | EXISTING | | PROVIDED BY DIVISION 23 |
| RTU-77 | 480 | 3 | | EXISTING | | PROVIDED BY DIVISION 23 |
| RTU-78 | 480 | 3 | | EXISTING | | PROVIDED BY DIVISION 23 |
| RTU-80 | 480 | 3 | | EXISTING | | PROVIDED BY DIVISION 23 |
| RTU-81 | 480 | 3 | | EXISTING | | PROVIDED BY DIVISION 23 |
| RTU-82 | 480 | 3 | | EXISTING | | PROVIDED BY DIVISION 23 |
| RTU-83 | 480 | 3 | | EXISTING | | PROVIDED BY DIVISION 23 |
| RTU-84 | 480 | 3 | | EXISTING | | PROVIDED BY DIVISION 23 |
| RTU-85 | 480 | 3 | | EXISTING | | PROVIDED BY DIVISION 23 |
| (E)RTU-92 | | | | | | |
| RTU-94 | 208 | 1 | | EXISTING | | PROVIDED BY DIVISION 23 |
| RTU-96 | 480 | 3 | | EXISTING | | PROVIDED BY DIVISION 23 |
| EF-1 | 120 | 1 | #12 | #12 | #12 | PROVIDED BY DIVISION 23 |
| EF-2 | 120 | 1 | #12 | #12 | #12 | PROVIDED BY DIVISION 23 |
| EF-3 | 120 | 1 | #12 | #12 | #12 | PROVIDED BY DIVISION 23 |
| EF-4 | 120 | 1 | #12 | #12 | #12 | PROVIDED BY DIVISION 23 |
| EF-5 | 120 | 1 | #12 | #12 | #12 | PROVIDED BY DIVISION 23 |
| EF-6 | 120 | 1 | #12 | #12 | #12 | PROVIDED BY DIVISION 23 |
| EF-7 | 120 | 1 | #12 | #12 | #12 | PROVIDED BY DIVISION 23 |
| EF-8 | 120 | 1 | #12 | #12 | #12 | PROVIDED BY DIVISION 23 |
| EF-9 | 120 | 1 | #12 | #12 | #12 | PROVIDED BY DIVISION 23 |
| EF-10 | 120 | 1 | #12 | #12 | #12 | PROVIDED BY DIVISION 23 |
| EF-11 | 120 | 1 | #12 | #12 | #12 | PROVIDED BY DIVISION 23 |
| EF-12 | 120 | 1 | #12 | #12 | #12 | PROVIDED BY DIVISION 23 |
| EF-13 | 120 | 1 | #12 | #12 | #12 | PROVIDED BY DIVISION 23 |
| EF-14 | 120 | 1 | #12 | #12 | #12 | PROVIDED BY DIVISION 23 |
| AC-1 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-1 |
| AC-2 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-1 |
| AC-3 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-1 |
| AC-4 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-1 |
| AC-5 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-1 |
| AC-6 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-1 |
| AC-7 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-1 |
| AC-8 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-1 |
| AC-9 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-1 |
| AC-10 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-1 |
| AC-11 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-1 |
| AC-12 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-1 |
| AC-13 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-1 |
| AC-14 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-1 |
| AC-15 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-1 |
| AC-16 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-1 |
| AC-17 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-1 |
| AC-18 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-1 |
| AC-19 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-1 |
| AC-20 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-1 |
| AC-21 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-1 |
| AC-22 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-1 |
| AC-23 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-1 |
| AC-24 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-1 |
| AC-25 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-1 |
| AC-26 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-1 |
| AC-27 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-1 |
| AC-28 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-1 |
| AC-29 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-1 |
| C-1 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-3R |
| C-2 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-3R |
| C-3 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-3R |
| C-4 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-3R |
| C-5 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-3R |
| C-6 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-3R |
| C-7 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-3R |
| C-8 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-3R |
| C-9 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-3R |
| C-10 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-3R |
| C-11 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-3R |
| C-12 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-3R |
| C-13 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-3R |
| C-14 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-3R |
| C-15 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-3R |
| C-16 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-3R |
| C-17 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-3R |
| C-18 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-3R |
| C-19 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-3R |
| C-20 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-3R |
| C-21 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-3R |
| C-22 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-3R |
| C-23 | 208 | 1 | (2) #12 | N/A | #12 | 30A/2P/NF/N-3R |
| WH-1 | 277 | 1 | (2) #10 | N/A | #10 | 30A/2P/NF/N-1 |

| PANEL "HSB" | | | 480Y/277V, 3Ø, 4W | | 2000A MLO | | NEMA-1 | | | | | | |
|--------------------------------------|------|------|-------------------|--|-----------|--------------------------------------|---------------------|------|---------------|-------------|------------------|--------------|--|
| EXISTING | | | VOLTAGE/PHASE | | 2000A BUS | | SURFACE | | | | | | |
| CKT | AMPS | POLE | DESCRIPTION | | NOTES | LOAD VA | CKT | AMPS | POLE | DESCRIPTION | NOTES | LOAD VA | |
| 1 | | | | | | 77644 | 2 | | | | | 0 | |
| 3 | 400 | 3 | PANEL HF1 | | 1 | 71690 | 4 | 60 | 3 | TVSS | | 0 | |
| 5 | | | | | | 70321 | 6 | | | | | 0 | |
| 7 | | | | | | 56010 | 8 | | | | | 17728 | |
| 9 | 400 | 3 | PANEL EM2 | | | 55376 | 10 | 100 | 3 | HCC6 | | 17728 | |
| 11 | | | | | | 52016 | 12 | | | | | 17728 | |
| 13 | | | | | | 99654 | 14 | | | | | 38080 | |
| 15 | 600 | 3 | HCC4 | | | 105043 | 16 | 225 | 3 | XFMR "L7B" | | 35500 | |
| 17 | | | | | | 101466 | 18 | | | | | 34690 | |
| 19 | | | | | | 127736 | 20 | | | | | 0 | |
| 21 | 1200 | 3 | MDP1 | | | 127265 | 22 | | 3 | SPACE | | 0 | |
| 23 | | | | | | 124191 | 24 | | | | | 0 | |
| 25 | | | | | | 112325 | 26 | | | | | 22228 | |
| 27 | 400 | 3 | HCC1 | | | 103374 | 28 | 225 | 3 | H8 | | 25971 | |
| 29 | | | | | | 96613 | 30 | | | | | 25588 | |
| 31 | | | | | | 54985 | 32 | | | | | 0 | |
| 33 | 225 | 3 | HCC2 | | | 47403 | 34 | | 3 | SPACE | | 0 | |
| 35 | | | | | | 43213 | 36 | | | | | 0 | |
| 37 | | | | | | 20621 | 38 | | | | | 0 | |
| 39 | 225 | 3 | PANEL HG1 | | 2 | 20158 | 40 | | 3 | SPACE | | 0 | |
| 41 | | | | | | 22480 | 42 | | | | | 0 | |
| NOTES: | | | | | | LOAD DESCRIPTION | CONNECTED LOAD (VA) | | DEMAND FACTOR | | DEMAND LOAD (VA) | | |
| 1. EXISTING BREAKER, NEW WIRE | | | | | | LIGHTING | 150,580 | | 1.25 | | 188,225 | | |
| 2. NEW BREAKER, MATCH AIC AND MANUF. | | | | | | HVAC - COOL | 1,200 | | 1.00 | | 1,200 | | |
| 3. _____ | | | | | | HVAC - HEAT | 0 | | 0.00 | | 0 | | |
| 4. _____ | | | | | | RECEPTACLE | 563,640 | | 0.51 | | 286,820 | | |
| 5. _____ | | | | | | MISC | 1,109,405 | | 1.00 | | 1,109,405 | | |
| 6. _____ | | | | | | TOTAL | 1,824,825 | | | | 1,585,650 | | |
| 7. _____ | | | | | | TOTAL DEMAND CURRENT @ 480Y/277V, 3Ø | | | | | | 1,907.2 AMPS | |

| PANEL "H7A" | | | 480Y/277V, 3Ø, 4W | | 400A MLO | | NEMA-1 | | | | | | |
|-------------|------|------|-------------------|--|----------|--------------------------------------|---------------------|------|------|------------------|------------------|-----------|--|
| EXISTING | | | VOLTAGE/PHASE | | 400A BUS | | SURFACE | | | | | | |
| CKT | AMPS | POLE | DESCRIPTION | | NOTES | LOAD VA | CKT | AMPS | POLE | DESCRIPTION | NOTES | LOAD VA | |
| 1 | 20 | 1 | OFFICE LIGHTS | | | 1000 | 2 | 20 | 1 | OFFICE LIGHTS | | 0 | |
| 3 | 20 | 1 | OFFICE LIGHTS | | | 768 | 4 | 20 | 1 | OFFICE LIGHTS | | 306 | |
| 5 | 20 | 1 | OFFICE LIGHTS | | | 1200 | 6 | 20 | 1 | OFFICE LIGHTS | | 0 | |
| 7 | 20 | 1 | OFFICE LIGHTS | | | 2000 | 8 | 20 | 1 | RECEPTION LIGHTS | | 0 | |
| 9 | 20 | 1 | OFFICE LIGHTS | | | 1500 | 10 | 20 | 1 | RECEPTION LIGHTS | | 0 | |
| 11 | 20 | 1 | OFFICE LIGHTS | | | 2000 | 12 | 20 | 1 | LIGHTS | | 0 | |
| 13 | 20 | 1 | OFFICE LIGHTS | | | 1200 | 14 | 20 | 1 | LIGHTS | | 0 | |
| 15 | 20 | 1 | OFFICE LIGHTS | | | 900 | 16 | 20 | 1 | SPARE | | 0 | |
| 17 | 20 | 1 | OFFICE LIGHTS | | | 2200 | 18 | 20 | 1 | SPARE | | 0 | |
| 19 | | | | | | 5000 | 20 | | | | | 5000 | |
| 21 | | 3 | RTU | | | 5000 | 22 | | 3 | RTU | | 5000 | |
| 23 | | | | | | 5000 | 24 | | | | | 5000 | |
| 25 | | | | | | 0 | 26 | | 1 | SPACE | | 0 | |
| 27 | 100 | 3 | XFMR "T7A3" 75KVA | | | 0 | 28 | 20 | 1 | SPACE | | 0 | |
| 29 | | | | | | 0 | 30 | 20 | 1 | SPACE | | 0 | |
| 31 | | | | | | 0 | 32 | | 1 | SPACE | | 0 | |
| 33 | 60 | 3 | SPARE | | | 0 | 34 | | 1 | SPACE | | 0 | |
| 35 | | | | | | 0 | 36 | | 1 | SPACE | | 0 | |
| 37 | | | | | | 0 | 38 | | | | | 0 | |
| 39 | 100 | 3 | SPARE | | | 0 | 40 | 100 | 3 | SPARE | | 0 | |
| 41 | | | | | | 0 | 42 | | | | | 0 | |
| NOTES: | | | | | | LOAD DESCRIPTION | CONNECTED LOAD (VA) | | | DEMAND FACTOR | DEMAND LOAD (VA) | | |
| 1. | | | | | | LIGHTING | 13,074 | | | 1.25 | 16,343 | | |
| 2. | | | | | | HVAC - COOL | 0 | | | 0.00 | 0 | | |
| 3. | | | | | | HVAC - HEAT | 0 | | | 0.00 | 0 | | |
| 4. | | | | | | RECEPTACLE | 0 | | | 0.00 | 0 | | |
| 5. | | | | | | MISC | 30,000 | | | 1.00 | 30,000 | | |
| 6. | | | | | | TOTAL | 43,074 | | | | 46,343 | | |
| 7. | | | | | | TOTAL DEMAND CURRENT @ 480Y/277V, 3Ø | | | | | | 55.7 AMPS | |