

ABBREVIATIONS AND SYMBOLS

ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS.

MECHANICAL		PLUMBING		ELECTRICAL																																	
PIPING DESIGNATIONS	EQUIPMENT DESIGNATIONS	PIPING SYMBOLS	PIPING DESIGNATIONS	POWER SYMBOLS	ABBREVIATIONS																																
<p>CHS — CHILLED WATER SUPPLY</p> <p>CHR — CHILLED WATER RETURN</p> <p>CWS — CONDENSER WATER SUPPLY</p> <p>CWR — CONDENSER WATER RETURN</p> <p>HWS — HEATING WATER SUPPLY</p> <p>HWR — HEATING WATER RETURN</p> <p>HPWS — HEAT PUMP WATER SUPPLY</p> <p>HPWR — HEAT PUMP WATER RETURN</p> <p>E — EXPANSION LINE</p> <p>CD — CONDENSATE DRAIN</p>	<p>AC AIR COMPRESSOR</p> <p>AF AIR FILTER</p> <p>AH/AHU AIR HANDLING UNIT</p> <p>AS AIR SEPARATOR</p> <p>BF BOOSTER FAN</p> <p>CP CIRCULATING PUMP</p> <p>CRAC COMPUTER ROOM AIR CONDITIONER</p> <p>CT COOLING TOWER</p> <p>CU CONDENSING UNIT, AIR COOLED</p> <p>CVT CONSTANT VOLUME FAN TERMINAL COOL/HEAT</p> <p>EDH ELECTRIC DUCT HEATER</p> <p>EF EXHAUST FAN</p> <p>EUH ELECTRIC UNIT HEATER</p> <p>FCU FAN COIL UNIT</p> <p>FD FIRE DAMPER</p> <p>FPB FAN POWERED BOX</p> <p>FSD FIRE/SMOKE COMBINATION DAMPER</p> <p>GRV GRAVITY ROOF VENTILATOR</p> <p>GUH GAS-FIRED UNIT HEATER</p> <p>HC HEATING COIL</p> <p>HP HEAT PUMP, AIR SOURCE</p> <p>HUM HUMIDIFIER</p> <p>HX HEAT EXCHANGER</p> <p>IRH INFRARED HEATER</p> <p>KEF KITCHEN EXHAUST FAN</p> <p>KSF KITCHEN SUPPLY FAN</p> <p>MAU MAKE-UP AIR UNIT</p> <p>MD MOTORIZED DAMPER</p> <p>RTU ROOF TOP UNIT</p> <p>SA SOUND ATTENUATOR</p> <p>SD SMOKE DAMPER</p> <p>SF SUPPLY FAN</p> <p>VAV VARIABLE VOLUME TERMINAL – COOL ONLY</p> <p>VFD VARIABLE FREQUENCY DRIVE</p> <p>VRF VARIABLE REFRIGERANT FLOW</p> <p>VSD VARIABLE SPEED DRIVE</p> <p>VT VARIABLE VOLUME & TEMPERATURE</p> <p>WH WALL HEATER</p> <p>WHP HEAT PUMP, WATER SOURCE</p>	<p>PIPING UP</p> <p>PIPING DOWN</p> <p>CAPPED PIPE TERMINATION</p> <p>CONNECTION BOTTOM OF MAIN</p> <p>CONNECTION TOP OF MAIN</p> <p>DIRECTION OF FLOW</p> <p>SLOPE DOWN IN DIRECTION SHOWN</p> <p>CONCENTRIC REDUCER</p> <p>ECCENTRIC REDUCER</p> <p>GATE VALVE</p> <p>BALL VALVE</p> <p>BUTTERFLY VALVE</p> <p>GLOBE VALVE</p> <p>TEMPERATURE & PRESSURE RELIEF VALVE</p> <p>GAS COCK</p> <p>PRESSURE REGULATING VALVE</p> <p>CHECK VALVE</p> <p>HYDRAULIC SHOCK ARRESTOR</p> <p>SOLENOID VALVE</p> <p>ANGLE VALVE</p> <p>GAUGE COCK</p> <p>AIR VENT</p> <p>PRESSURE GAUGE</p> <p>STRAINER</p> <p>THERMOMETER WELL</p> <p>EXPANSION JOINT</p> <p>UNION</p> <p>HOSE BIBB OR HYDRANT</p> <p>THERMOMETER</p> <p>P-TRAP</p> <p>FLOOR DRAIN/FLOOR SINK WITH P-TRAP</p> <p>HUB DRAIN WITH P-TRAP</p> <p>FLOOR CLEANOUT OR GRADE CLEANOUT</p> <p>CLEANOUT OR WALL CLEANOUT</p> <p>DOUBLE CHECK BACKFLOW PREVENTER</p> <p>REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER</p> <p>CONNECT TO EXISTING</p>	<p>EXISTING TO REMAIN</p> <p>EXISTING TO BE REMOVED/DEMOLISHED</p> <p>DOMESTIC COLD WATER</p> <p>DOMESTIC HOT WATER</p> <p>DOMESTIC HOT WATER RETURN</p> <p>DIRECTION OF FLOW</p> <p>NATURAL GAS</p> <p>WATER SERVICE</p> <p>COMPRESSED AIR</p> <p>VACUUM</p> <p>INDIRECT WASTE</p> <p>SANITARY SEWER</p> <p>SANITARY VENT</p> <p>PRIMARY ROOF DRAIN</p> <p>OVERFLOW ROOF DRAIN</p> <p>STORM DRAIN</p> <p>BELOW GRADE SUB-SOIL DRAIN</p> <p>ACID WASTE</p> <p>ACID VENT</p> <p>GREASE WASTE</p> <p>TRAP PRIMER SUPPLY</p>	<p>GENERAL PURPOSE RECEPTACLE</p> <p>XX=HEIGHT ABOVE FINISHED FLOOR</p> <p>FLOOR GENERAL PURPOSE RECEPTACLE</p> <p>CEILING GENERAL PURPOSE RECEPTACLE</p> <p>GFI RECEPTACLE</p> <p>1/2 SWITCHED RECEPTACLE</p> <p>QUADRAPLEX RECEPTACLE</p> <p>FLOOR QUADRAPLEX RECEPTACLE</p> <p>CEILING QUADRAPLEX RECEPTACLE</p> <p>USB/DUPLEX RECEPTACLE</p> <p>SPECIAL RECEPTACLE</p> <p>TELEVISION OUTLET</p> <p>TELEPHONE OUTLET</p> <p>FLOOR TELEPHONE OUTLET</p> <p>CEILING TELEPHONE OUTLET</p> <p>DATA OUTLET</p> <p>FLOOR DATA OUTLET</p> <p>CEILING DATA OUTLET</p> <p>TELE/ DATA OUTLET</p> <p>FLOOR TELE/ DATA OUTLET</p> <p>CEILING TELE/ DATA OUTLET</p> <p>JUNCTION BOX – SIZE IN ACCORDANCE WITH NEC FOR SPECIFIC APPLICATION</p> <p>FLOOR JUNCTION BOX</p> <p>CEILING JUNCTION BOX</p> <p>COMBINATION MOTOR STARTER & FUSED DISCONNECT</p> <p>NON-FUSED DISCONNECT SWITCH</p> <p>*WP* INDICATES WEATHER PROOF, MOTOR RATED</p> <p>FUSED DISCONNECT SWITCH</p> <p>(EX. 30/15/3 = 30A RATED DISC., 15A FUSES, (EX. 3 PHASE)</p> <p>*WP* INDICATES WEATHER PROOF, MOTOR RATED</p> <p>CIRCUIT BREAKER IN NEMA ENCLOSURE</p> <p>MOTOR</p> <p>CIRCUIT HOME RUN</p> <p>CROSS MARKS INDICATE WIRES (NEUTRAL, HOT, COMMON GROUND, ISOLATED GROUND)</p> <p>PANELBOARD (240 VOLT AND BELOW)</p> <p>PANELBOARD (480 VOLT)</p> <p>TRANSFORMER</p> <p>EMERGENCY POWER OFF (EPO) BUTTON</p> <p>COPPER GROUND BAR ASSEMBLY</p> <p>KWH METER</p>	<p>AC ALTERNATING CURRENT</p> <p>A AMPS</p> <p>AFF ABOVE FINISHED FLOOR</p> <p>ATS AUTOMATIC TRANSFER SWITCH</p> <p>C CONDUIT</p> <p>CCTV CLOSED CIRCUIT T.V.</p> <p>CLG CEILING</p> <p>DP DISTRIBUTION PANEL</p> <p>EG EQUIPMENT GROUND</p> <p>ELEC ELECTRIC</p> <p>EMERG EMERGENCY</p> <p>FA FIRE ALARM</p> <p>FAP FIRE ALARM ANUNCIATOR PANEL</p> <p>FACP FIRE ALARM CONTROL PANEL</p> <p>FLR FLOOR</p> <p>G,GRD GROUND</p> <p>GEN GENERATOR</p> <p>GFI GROUND FAULT CIRCUIT INTERRUPTER</p> <p>HP HORSE POWER</p> <p>HV HIGH VOLTAGE</p> <p>IG ISOLATED GROUND</p> <p>JB JUNCTION BOX</p> <p>LTS LIGHTS</p> <p>LTG LIGHTING</p> <p>LV LOW VOLTAGE</p> <p>MCB MAIN CIRCUIT BREAKER</p> <p>MDP MAIN DISTRIBUTION PANEL</p> <p>MLO MAIN LUGS ONLY</p> <p>MTD MOUNTED</p> <p>HTG HT MOUNTING HEIGHT</p> <p>P POLE</p> <p>PH PHASE</p> <p>PB PULL BOX</p> <p>PNL PANEL</p> <p>REC,RECEP RECEPTACLE</p> <p>SS SAFETY SWITCH</p> <p>TEL TELEPHONE</p> <p>TV TELEVISION</p> <p>UNO UNLESS NOTED OTHERWISE</p> <p>V VOLTAGE</p> <p>WP WEATHER PROOF</p> <p>WT WATER TIGHT</p> <p>XFMR TRANSFORMER</p> <p>PHASE</p>																																
<h4>MECHANICAL SYMBOLS</h4> <p>NEW FAN POWERED BOX</p> <p>EXISTING FAN POWERED BOX</p> <p>DEMOLISHED FAN POWERED BOX</p> <p>RELOCATED FAN POWERED BOX</p> <p>NEW VAV</p> <p>EXISTING VAV</p> <p>DEMOLISHED VAV</p> <p>RELOCATED VAV</p> <p>NEW DUCTWORK</p> <p>EXISTING DUCTWORK</p> <p>DEMOLISHED DUCTWORK</p> <p>SUPPLY OR OUTSIDE AIR DUCT</p> <p>RETURN OR EXHAUST AIR DUCT</p> <p>DUCT TURNING UP</p> <p>DUCT TURNING DOWN</p> <p>24x12 CLEAR INSIDE DUCT DIMENSION, FIRST VALUE IS DUCT WIDTH</p> <p>DUCT TRANSITION</p> <p>DUCT TAP WITH MANUAL VOLUME DAMPER</p> <p>NEW SUPPLY AIR GRILLE</p> <p>NEW RETURN AIR GRILLE</p> <p>NEW EXHAUST AIR GRILLE</p> <p>EXISTING SUPPLY AIR GRILLE</p> <p>EXISTING RETURN AIR GRILLE</p> <p>EXISTING EXHAUST AIR GRILLE</p> <p>DEMOLISHED SUPPLY AIR GRILLE</p> <p>DEMOLISHED RETURN AIR GRILLE</p> <p>DEMOLISHED EXHAUST AIR GRILLE</p> <p>SIDEWALL OUTLET</p> <p>SIDEWALL INLET</p> <p>THERMOSTAT/SENSOR</p> <p>HUMIDISTAT</p> <p>DUCT SMOKE DETECTOR</p>		<h4>EQUIPMENT DESIGNATIONS</h4> <p>AC AIR COMPRESSOR</p> <p>CP CIRCULATION PUMP</p> <p>ET EXPANSION TANK</p> <p>EWC ELECTRIC WATER COOLER</p> <p>FD FLOOR DRAIN</p> <p>FP FIRE PUMP</p> <p>FS FLOOR SINK</p> <p>HB HOSE BIBB</p> <p>HD HUB DRAIN</p> <p>JP JOCKEY PUMP</p> <p>L LAATORY</p> <p>MS MOP SINK</p> <p>NFWH NON FREEZE WALL HYDRANT</p> <p>PRV PRESSURE REDUCING VALVE</p> <p>RPBP REDUCED PRESSURE BACKFLOW PREVENTER</p> <p>RV RELIEF VALVE</p> <p>S SINK</p> <p>SA SHOCK ARRESTOR</p> <p>SE SEWAGE EJECTOR</p> <p>SH SHOWER</p> <p>SP SUMP PUMP</p> <p>TD TRENCH DRAIN</p> <p>TM THERMOSTATIC MIXING VALVE</p> <p>TP TRAP PRIMER</p> <p>U URINAL</p> <p>WC WATER CLOSET</p> <p>WCB WASHER CONNECTION BOX</p> <p>WH WATER HEATER</p>		<h4>MECHANICAL SYMBOLS</h4> <p>MANUAL VOLUME DAMPER (VD)</p> <p>FIRE DAMPER (FD)</p> <p>SMOKE DAMPER (SD)</p> <p>FIRE/SMOKE COMBINATION DAMPER (FSD)</p> <p>AUTOMATIC DAMPER, OPPOSED BLADE</p> <p>AUTOMATIC DAMPER, PARALLEL BLADE</p> <p>BACK DRAFT DAMPER</p>																																	
<h4>MECHANICAL/PLUMBING ABBREVIATIONS</h4> <table border="0"> <tr> <td>AFF ABOVE FINISH FLOOR</td> <td>CLG CEILING</td> <td>GW GREASE WASTE</td> <td>RV RELIEF VALVE</td> </tr> <tr> <td>AFG ABOVE FINISHED GRADE</td> <td>CO CLEANOUT</td> <td>HW HOT WATER</td> <td>SD STORM DRAIN</td> </tr> <tr> <td>A/C ABOVE CEILING</td> <td>DCO DOUBLE CLEANOUT</td> <td>HWR HOT WATER RETURN</td> <td>SS SANITARY SEWER</td> </tr> <tr> <td>BAS BUILDING AUTOMATION SYSTEM – SEE EMCS</td> <td>DS DOWNSPOUT</td> <td>MTD MOUNTED</td> <td>SV SANITARY VENT</td> </tr> <tr> <td>B/F BELOW FLOOR</td> <td>EMCS ENERGY MANAGEMENT & CONTROL SYSTEM</td> <td>OD OVERFLOW DRAIN</td> <td>UNO UNLESS NOTED OTHERWISE</td> </tr> <tr> <td>BFF BELOW FINISHED FLOOR</td> <td>FCO FLOOR CLEANOUT</td> <td>ODN OVERFLOW DOWNSPOUT NOZZLE</td> <td>VTR VENT THRU ROOF</td> </tr> <tr> <td>B/G BELOW GRADE</td> <td>FLR FLOOR</td> <td>PRV PRESSURE REDUCING VALVE</td> <td>WCO WALL CLEANOUT</td> </tr> <tr> <td>BRF BELOW RAISED FLOOR</td> <td>GCO GRADE CLEANOUT</td> <td>RD ROOF DRAIN</td> <td></td> </tr> </table>						AFF ABOVE FINISH FLOOR	CLG CEILING	GW GREASE WASTE	RV RELIEF VALVE	AFG ABOVE FINISHED GRADE	CO CLEANOUT	HW HOT WATER	SD STORM DRAIN	A/C ABOVE CEILING	DCO DOUBLE CLEANOUT	HWR HOT WATER RETURN	SS SANITARY SEWER	BAS BUILDING AUTOMATION SYSTEM – SEE EMCS	DS DOWNSPOUT	MTD MOUNTED	SV SANITARY VENT	B/F BELOW FLOOR	EMCS ENERGY MANAGEMENT & CONTROL SYSTEM	OD OVERFLOW DRAIN	UNO UNLESS NOTED OTHERWISE	BFF BELOW FINISHED FLOOR	FCO FLOOR CLEANOUT	ODN OVERFLOW DOWNSPOUT NOZZLE	VTR VENT THRU ROOF	B/G BELOW GRADE	FLR FLOOR	PRV PRESSURE REDUCING VALVE	WCO WALL CLEANOUT	BRF BELOW RAISED FLOOR	GCO GRADE CLEANOUT	RD ROOF DRAIN	
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<h4>LIGHT FIXTURE LABELING</h4> <p>UPPERCASE LETTER – INDICATES FIXTURE TYPE, REFER TO FIXTURE SCHEDULE</p> <p>LOWERCASE LETTER – INDICATED SWITCHING GROUP</p> <p>NUMBER INDICATES CIRCUIT</p> <p>NL – INDICATES NIGHT LIGHT</p> <p>FIXTURE WITH BI-LEVEL SWITCHING. LOWER CASE LETTERS INDICATE SWITCH LEGS</p>																																					
<h4>LIFE SAFETY SYMBOLS</h4> <p>UNSWITCHED EMERGENCY FIXTURE WITH BATTERY BACKUP</p> <p>EXIT SIGN WITH BATTERY BACKUP</p> <p>FLUSH MOUNTED CEILING SPEAKER ASSEMBLY WITH BACK BOX, TRANSFORMER, AND CEILING BAFFLE (WHITE)</p> <p>FIRE ALARM STROBE – VISUAL ONLY COORDINATE FINISH WITH ARCHITECT</p> <p>FIRE ALARM STROBE – COMBINATION AUDIO & VISUAL COORDINATE FINISH WITH ARCHITECT</p> <p>FIRE ALARM HORN – AUDIO ONLY COORDINATE FINISH WITH ARCHITECT</p> <p>FIRE ALARM MANUAL PULL STATION COORDINATE FINISH WITH ARCHITECT</p> <p>FIRE ALARM SMOKE DETECTOR – 120V W/ BATTERY BACK UP. COORDINATE FINISH WITH ARCHITECT</p> <p>X-DD (DUCT DETECTOR), X-SS (SINGLE STATION) X=ER (ELEVATOR RECALL)</p> <p>FIRE ALARM HEAT DETECTOR – 120V W/ BATTERY BACK UP COORDINATE FINISH WITH ARCHITECT</p> <p>HATCHED FIXTURE INDICATES UNSWITCHED FIXTURE ON EMERGENCY CIRCUIT OR BATTERY PACK BATTERY PACKS SHALL BE SELF-TESTING TYPE AND SHALL BE RATED FOR 90 MINUTES</p>																																					
<h4>LIGHT SWITCH SYMBOLS</h4> <p>SINGLE POLE SWITCH</p> <p>THREE WAY SWITCH</p> <p>FOUR WAY SWITCH</p> <p>DIMMER SWITCH</p> <p>WEATHERPROOF SWITCH</p> <p>MANUAL MOTOR CONTROLLER, MOTOR RATED</p> <p>OCCUPANCY SENSOR SWITCH</p> <p>WALL MOUNTED OCCUPANCY SENSOR</p> <p>CEILING MOUNTED OCCUPANCY SENSOR</p> <p>PHOTOCCELL</p>																																					

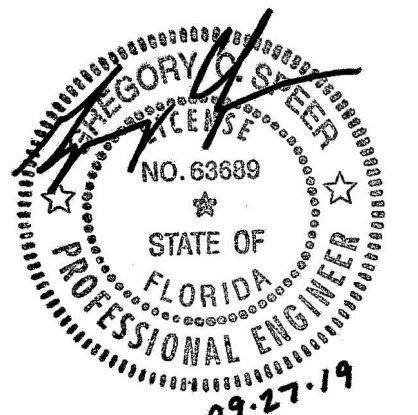
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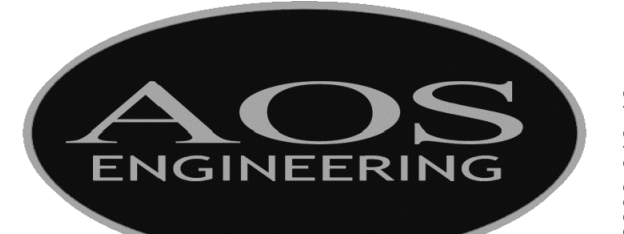
CareSpot Urgent Care
Clermont Retail Building
1615 East State Hwy 50, Suite 200
Lake County, Florida 34711

CONSTRUCTION DOCUMENTS

No.	Date	Item



CONTRACTOR SHALL COORDINATE MEP DRAWINGS WITH ALL OTHER DISCIPLINES



PROJECT INFORMATION

Project No. 1923
Date 09/27/2019
Last Revision
MEP-1

8020 Tennyson Parkway - Plano, TX 75024
Dallas / Fort Worth 214.432.3030
Houston 832.532.2007

AOS JOB #: 2039-019-19

GENERAL NOTES

ALL NOTES MAY NOT APPLY.

MECHANICAL NOTES:

- 1. IT IS THE INTENT AND MEANING OF THE CONSTRUCTION DOCUMENTS THAT THE CONTRACTOR SHALL PROVIDE A MECHANICAL INSTALLATION THAT IS COMPLETE AND ALL ITEMS AND APPURTENANCES NECESSARY, REASONABLY INCIDENTAL, OR CUSTOMARILY INCLUDED EVEN THOUGH EACH AND EVERY ITEM IS NOT SPECIFICALLY CALLED OUT OR SHOWN.
2. THE CONTRACTOR SHALL MAKE A CAREFUL EXAMINATION OF THE SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE REQUIREMENTS OF THE CONTRACT. UPON COMMENCEMENT OF CONSTRUCTION FOR THE WORK INCLUDED IN THIS CONTRACT, THE CONTRACTOR SHALL BE DEEMED TO HAVE MADE SUCH A STUDY OR EXAMINATION AND THAT HE IS FAMILIAR WITH AND ACCEPTS ALL CONDITIONS OF THE PREMISES.
3. PROVIDE EQUIPMENT, MATERIALS, LABOR, SUPERVISION AND SERVICES NECESSARY FOR OR INCIDENTAL TO THE INSTALLATION OF A COMPLETE AND OPERATING HVAC OR PLUMBING SYSTEM AS SHOWN OR INDICATED ON THE DRAWINGS AND/OR AS SPECIFIED.
4. MATERIALS AND WORKMANSHIP SHALL COMPLY WITH CONTRACT DOCUMENTS, APPLICABLE CODES AND STANDARDS, AND, IN THE CASE OF DIFFERENCES BETWEEN APPLICABLE CODES AND STANDARDS AND THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ARCHITECT/ENGINEER AND THE OWNER IN WRITING OF SUCH DIFFERENCES.
5. THE DRAWINGS WERE PREPARED FROM THE BEST INFORMATION AVAILABLE, BUT DO NOT ATTEMPT TO INDICATE THE LOCATION OF ALL EXISTING EQUIPMENT.
6. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED RECOMMENDATIONS FOR SERVICE INTENDED, AS INTERPRETED BY THE ENGINEER.
7. COORDINATE THERMOSTAT LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION. DO NOT INSTALL THERMOSTAT ABOVE DIMMER SWITCH.
8. PROPERLY SUPPORT ALL EQUIPMENT AND PIPING WITHIN THE BUILDING AND PROVIDE ADEQUATE PROVISIONS FOR SLOPE AND ANCHORAGE.
9. PROVIDE VIBRATION ISOLATION FOR MOTOR DRIVEN MECHANICAL EQUIPMENT.
10. ALL FANS SHALL CARRY THE CERTIFIED RATING SEAL AUTHORIZED BY AMCA.
11. PROVIDE FLEXIBLE DUCTWORK CONNECTIONS AT EQUIPMENT.
12. DUCTWORK SHALL BE CONSTRUCTED ACCORDING TO SMACNA STANDARDS.
13. INSULATE NEW SUPPLY AND RETURN DUCTWORK AND PLENUMS WITH EITHER EXTERNAL INSULATION TYPE IV DUCT WRAP OR INTERNAL DUCT LINER, 1.5 PCF MINIMUM DENSITY.
14. DIFFUSERS, REGISTERS AND GRILLES SHALL BE BUILDING STANDARD UNLESS NOTED OTHERWISE AND SHALL BE PROVIDED WITH FRAMES COMPATIBLE WITH CEILING TYPE.
15. PROVIDE AN AIR BALANCING DEVICE FOR EACH SUPPLY AIR OUTLET AND ZONE TERMINAL DEVICE.
16. CONTRACTOR TO VERIFY RETURN AIR PATH AND INCORPORATE RETURN AIR TRANSFER THROUGH WALLS AS NECESSARY.
17. COORDINATE ALL WALLS TO DECK WITH EXISTING DUCTWORK AND EXISTING TERMINAL UNITS.
18. BALANCING OF WATER AND AIR SYSTEMS SHALL BE PROVIDED UNDER THIS CONTRACT FOR ALL SYSTEMS WITHIN TENANT BORDERS AND ADJACENT AREAS THAT MAY BE AFFECTED BY BALANCING FOR THIS TENANT.
19. PROVIDE NEBB CERTIFIED AIR BALANCE REPORT.
20. COLD AND HOT WATER PIPING SHALL BE TYPE L HARD DRAWN COPPER WITH WROUGHT COPPER FITTINGS.
21. INSULATE DOMESTIC HOT WATER AND RECIRCULATION LINES (1" THICK) AND DOMESTIC COLD WATER LINES (1/2" THICK) WITH OWENS CORNING FIBERGLASS 25 ASI, JOHNS-MANVILLE AF OR APPROVED EQUAL.
22. SOIL, WASTE AND DRAIN PIPING, 2" AND LARGER, SHALL BE SERVICE WEIGHT CAST IRON.
23. HOT WATER CIRCULATING SYSTEMS OR HOT WATER HEAT TRACE SHALL HAVE TIMECLOCK CAPABLE CONTROL.
24. PLUMBING FIXTURES AND EQUIPMENT SHALL BE FURNISHED AND INSTALLED COMPLETE WITH TRIM AND ALL OTHER APPURTENANCES REQUIRED TO CONNECT TO ROUGH-IN PIPING AT FLOORS AND WALLS UNLESS OTHERWISE SPECIFIED.
25. WATER HEATING EQUIPMENT WITHOUT INTEGRAL HEAT TRAPS WILL HAVE HEAT TRAPS INSTALLED ON THE SUPPLY AND DISCHARGE PIPING.
26. PVC PIPING LOCATED IN PLENUM RETURN MUST MEET ASTM E84 AND HAVE A FIRE SPREAD OF 25/50.
27. EXISTING EQUIPMENT NOTES:
A. CONTRACTOR SHALL INSPECT EXISTING PLUMBING AND HVAC EQUIPMENT PRIOR TO SUBMITTING HIS BID.
B. CONTRACTOR SHALL INCLUDE IN HIS BID A THOROUGH START-UP SERVICING AND CLEANING OF ALL EXISTING EQUIPMENT.
C. IF REPAIRS ARE NECESSARY TO PLACE EXISTING EQUIPMENT IN WORKING ORDER, PROVIDE OWNER WITH A DETAILED WRITTEN REPORT OF NECESSARY REPAIRS AND A COST PROPOSAL TO PERFORM THE WORK.
28. PROVIDE INSTALLATION, OPERATION AND MAINTENANCE MANUALS TO THE OWNER.
29. STANDARD NO-HUB COUPLINGS SHALL CONFORM TO CISP1 310 (MOST CURRENT EDITION) AND SHALL BE LISTED BY NSF INTERNATIONAL.
30. HEAVY DUTY COUPLINGS SHALL CONFORM TO THE REQUIREMENTS OF ASTM 1540 AND FM 1680 CLASS I.
31. COMPRESSION GASKETS FOR HUB & SPIGOT SHALL CONFORM TO THE REQUIREMENTS OF ASTM STANDARD C 564 AND ASTM C 1563 (MOST CURRENT EDITION)
32. JOINTS FOR PIPE AND FITTINGS SHALL CONFORM TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND LOCAL CODE REQUIREMENTS.

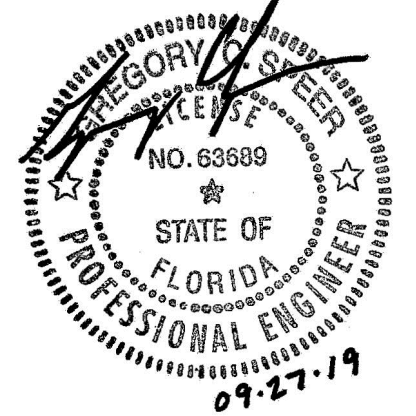
ELECTRICAL NOTES:

- 1. FOR EXACT LIGHT FIXTURE LOCATIONS, LIGHT FIXTURE SPECIFICATIONS, EXACT RECEPTACLE LOCATIONS AND MOUNTING HEIGHTS, REFER TO ARCHITECTURAL PLANS AND DETAILS. MEP PLANS ARE FOR CIRCUITING INFORMATION AND LIFE SAFETY ONLY.
2. COORDINATE SWITCH/DIMMER LOCATIONS AND SWITCHING/DIMMING PATTERNS WITH ARCHITECT PRIOR TO INSTALLATION.
3. POKE-THROUGH/FLOOR BOX SPECIFICATIONS SHALL BE AS FOLLOWS:
DUPLEX - WALKER RC3 (OR EQUIVALENT)
QUADRAPLEX - WALKER RC4 (OR EQUIVALENT)
FURNITURE FEED (TWO DEVICES SHOWN) - WALKER RC7FFTC FOR POWER, WALKER RC900AM-114 FOR TELE/DATA (OR EQUIVALENTS)
FURNITURE FEED (ONE DEVICE SHOWN) - WALKER RC9FFTC COMBINATION POWER/TELE/DATA TOMBSTONE (OR EQUIVALENT)
SLAB ON GRADE FLOOR BOX - WALKER OMNIBOX 880CS3-1 (OR EQUIVALENT)
4. TENANT'S CABLING VENDOR TO VERIFY THAT TELE/DATA POKE-THROUGH QUANTITIES SHOWN ON PLANS ARE SUFFICIENT FOR CABLING REQUIREMENTS.
5. PROVIDE OUTLET BOXES FOR ALL RECEPTACLES, SWITCHES, TELE/DATA DEVICES, ETC. AS REQUIRED PER PLANS.
6. ALL WET LOCATION RECEPTACLES (WITHIN 6' OF WET LOCATION) SHALL BE RATED 'GF'. ALL OUTDOOR RECEPTACLES SHALL BE RATED 'WP' AND 'GF'. ALL VENDING MACHINE RECEPTACLES TO BE GF PROTECTED.
7. ALL RECEPTACLES SHALL BE GROUNDED. ALL DEVICES TO MATCH BUILDING STANDARD TYPE, U.N.O. ON PLANS. ALL FINISHES SHALL BE SELECTED BY ARCHITECT.
8. COORDINATE WITH BUILDING MANAGEMENT AND STRUCTURAL ENGINEER PRIOR TO INSTALLING ANY PENETRATIONS THROUGH SLABS, FIRE RATED WALLS, AND ROOFS TO VERIFY ANY X-RAY OR OTHER REQUIREMENTS NECESSARY PRIOR TO PERFORMING WORK.
9. ALL 120V BRANCH CIRCUITS ARE PROTECTED BY 1P/20A BREAKERS U.N.O. ON PLANS.
10. AT ALL LOCATIONS WHERE MULTIPLE SWITCHES ARE LOCATED TOGETHER, CONTRACTOR SHALL GANG SWITCHES UNDER ONE COVER PLATE.
11. ALL NEW LIGHT FIXTURES TO BE PROVIDED WITH LAMPS INCLUDED. ALL NEW/RELOCATED LIGHT FIXTURES SHALL BE SUPPORTED FROM ABOVE STRUCTURE, SEPARATE FROM CEILING GRID.
12. ALL CONDUCTORS ARE TO BE COPPER, #12 GAUGE MINIMUM. CIRCUITS OF 120V EXCEEDING 115 FEET SHALL BE #10 GAUGE MINIMUM.
13. DEMOLISH ALL UNUSED CONDUIT AND WIRING BACK TO SOURCE.
14. UTILIZE EXISTING BASE BUILDING EMERGENCY LIGHTING CIRCUITS FOR ALL EMERGENCY FIXTURES AND EXIT SIGNS.
15. IF ENERGY MANAGEMENT SYSTEM (EMS) IS PRESENT IN BUILDING, CONTRACTOR TO ROUTE ALL LIGHTING CIRCUITS THROUGH EMS AS DIRECTED BY BUILDING ENGINEER.
16. PROVIDE POWER TO ALL NEW HVAC, VAV BOXES, DAMPERS, ETC. FROM NEAREST 120V GENERAL PURPOSE CIRCUIT OR FROM BUILDING HVAC CONTROL PANEL AS REQUIRED.
17. STEEL EMT CONDUIT SHALL BE UTILIZED FOR ALL HOME RUNS, 3/4" U.N.O. ON PLANS.
18. FOR EACH SINGLE PHASE OR THREE PHASE MOTOR, CONTRACTOR TO INSTALL LOCAL DISCONNECT.
19. ALL FEEDERS AND BRANCH WIRING (120-208V), CONTROL WIRING, AND COMMUNICATION WIRING (LOW VOLTAGE) SHALL BE COMPLETELY ENCLOSED IN ELECTRICAL RACEWAY FROM SOURCE TO TERMINATION.
20. CONTRACTOR TO REFERENCE MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATIONS AND QUANTITIES OF ALL HVAC/PLUMBING EQUIPMENT.
21. CONTRACTOR TO OBTAIN APPROVAL FROM BUILDING MANAGEMENT FOR ANY SHUTDOWNS REQUIRED.
22. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGE TO PROPERTY (OR ADJACENT PROPERTY) CAUSED BY HIM DURING CONSTRUCTION.
23. CONTRACTOR SHALL HONOR ALL GUARANTEE COMMITMENTS FOR THE DESIGNATED TIME FRAME.
24. ALL NEW EQUIPMENT TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
25. ALL WORK SHALL FULLY COMPLY WITH ALL APPLICABLE CODES.
26. PRIOR TO SUBMITTING BID, CONTRACTOR TO VISIT SITE TO FAMILIARIZE HIM/HER SELF WITH ALL EXISTING FIELD CONDITIONS.
27. REFERENCE PLANS FOR ALL NEW EQUIPMENT LOCATIONS.
28. FINISHED WORK TO FULLY COMPLY WITH ALL BASE BUILDING STANDARDS.
29. ALL SURFACE MOUNTED RACEWAY SHALL BE ALUMINUM WITH DIVIDER.
30. UPDATE ALL AFFECTED PANEL SCHEDULES UPON COMPLETION OF WORK.
31. ALL ELECTRIC ROOM INSTALLATIONS SHALL BE DONE IN SUCH A WAY AS TO MAXIMIZE WALL/FLOOR SPACE FOR FUTURE EQUIPMENT.
32. THE FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR SUBMITTING FIRE ALARM CONSTRUCTION DOCUMENTS TO LOCAL OFFICIALS FOR PERMIT.
33. CONTRACTOR SHALL PROVIDE ALL ITEMS AND ACCESSORIES AS REQUIRED PER ALL RELATED MANUFACTURER'S RECOMMENDATIONS.
34. CONTRACTOR TO INSTALL A GROUNDING SYSTEM THAT FULLY COMPLIES WITH THE NEC AND ANY LOCAL CODES.
35. CONTRACTOR TO INSTALL CONDUIT WITH PULL STRING FROM BUILDING TELEPHONE CLOSET TO TENANT'S PHONE BOARD.
36. CONTRACTOR TO ROUTE 1-#6 INSULATED GROUND WIRE FROM BUILDING GROUND RISER TO TENANT TELEPHONE BOARD.

DEMOLITION NOTES:

- 1. PROTECT THE EXISTING EQUIPMENT AND SYSTEMS TO REMAIN OPERATIONAL.
2. CONTRACTOR SHALL COORDINATE WITH THE OWNER TO ARRANGE THE SHUT OFF OF UTILITIES.
3. CONTRACTOR SHALL BOX AND/OR PALLETIZE ALL DEMOLISHED EQUIPMENT AND PROTECT IT ON SITE.
4. CONTRACTOR SHALL NOT CONSIDER DEMOLITION AND ALTERATION NOTES TO BE ALL-INCLUSIVE.
5. FOR DEMOLITION AREAS, THE CONTRACTOR SHALL REVIEW THE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND FIRE SUPPRESSION DEMOLITION DRAWINGS.
6. ENSURE THAT ALL LIFE SAFETY SYSTEMS REMAIN OPERATIONAL AND MEET LIFE SAFETY CODE REQUIREMENTS.
7. PROTECT EXISTING EQUIPMENT AND SYSTEMS INTENDED TO REMAIN OPERATIONAL.
8. RE-ROUTE AND RE-CONNECT ANY CIRCUIT(S) THAT ARE TO REMAIN IN USE BUT INTERFERES WITH THE NEW CONSTRUCTION.
9. WORK REQUIRING INTERRUPTION OF ELECTRICAL POWER, WHICH WOULD ADVERSELY AFFECT THE NORMAL OPERATION OF THE OWNER/LANDLORD'S PROPERTY.
10. OWNER/LANDLORD RESERVES THE RIGHTS TO ALL DEMOLISHED MATERIALS.
11. REMOVE UNUSED BRANCH CIRCUITS BACK TO BRANCH PANELBOARD OF ORIGIN.
12. REMOVE DEMOLISHED MATERIAL FROM PROJECT SITE IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS AND REGULATIONS.

Table with 2 columns: No., Date, Item. Contains revision entries for the drawing.



CONTRACTOR SHALL COORDINATE MEP DRAWINGS WITH ALL OTHER DISCIPLINES



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COVER SHEET
NOTES

Table with 2 columns: Project No., Date, Last Revision. Project No. 1923, Date 09/27/2019.

MEP-2

AOS JOB #: 2039-019-19

X-RAY GENERAL NOTES

- VERIFY REQUIREMENTS WITH TENANT SUPPLIED X-RAY EQUIPMENT SHOP DRAWINGS.
- WOOD BLOCKING FOR X-RAY EQUIPMENT TO BE A MINIMUM OF 1/2" THICK SECURED TO A MINIMUM OF THREE (3) STUDS W/ THE FACE OF BLOCKING FLUSH W/ LINE OF STUDS.
- VERIFY SHIELDING REQUIREMENTS W/ TENANT SUPPLIED PHYSICIST'S REPORT PRIOR TO INSTALLING LEAD LINING IN WALLS.

X-RAY KEY NOTES

- (A) BREAKER ENCLOSURE FLUSH-MOUNTED AT 44" AFF. - 208V-240VAC, THREE PHASE / SHUNT TRIP TYPE BASED ON SPECS BELOW. FURNISH AND INSTALL EMERGENCY OFF SWITCH (EOS) IN GENERAL AREA OF CONTROL ROOM AS SHOWN. PROVIDE 6" SEALTIGHT CONDUIT WITH 18" PIGTAIL ON GENERATOR SIDE. RUN FROM (JB5) TO REAR OF GEN. CABINET, USING TWO (2) 90 DEGREE ELBOWS. REFER TO SCHEMATIC FOR MORE DETAILS.
- (A1) FLUSH MOUNTED AT 44" AFF. BREAKER ENCLOSURE TO INCLUDE TWO (2) 120VAC/20A BREAKERS/DISCONNECTS FOR SUPPLY TO DESIGNATIONS, (JB5) AND (JB3). LEAVE 6FT PIGTAIL AT JUNCTION BOXES. ELECTRICIAN TO DETERMINE BEST METHOD OF RUN ACCORDING TO LOCAL CODES.
- (JB) 8"x8" JUNCTION BOX, MOUNTED FLUSH WITH WALL 18" AFF. INSTALL 2" CHASE NIPPLE IN THE CENTER OF COVER.
- (JB5) 6"x6" JUNCTION BOX, MOUNTED FLUSH WITH WALL 48" AFF. INSTALL 2" CHASE NIPPLE IN THE CENTER OF COVER.
- (JB3) 8"x8" FLOOR MOUNTED RECESSED JUNCTION BOX. INSTALL 2" CHASE NIPPLE IN THE CENTER OF COVER.
- (JB4) 8"x8"x4" JUNCTION BOX, MOUNTED FLUSH WITH WALL 18" AFF. PROVIDE A 3"x8" GROMMETED OPENING IN THE COVER.
- (JB2) 8"x8"x4" JUNCTION BOX, MOUNTED FLUSH WITH WALL 18" AFF. PROVIDE A 3"x8" GROMMETED OPENING IN THE COVER.
- (C1) 2" CONDUIT FROM (JB1) TO (JB4) W/ PULL STRING.
- (C2) 2" CONDUIT FROM (JB2) TO (JB4) W/ PULL STRING.
- (C3) 2" CONDUIT UNDER FLOOR, RUN FROM BOTTOM OF (JB4) TO (JB3)
- (C4) 2" CONDUIT FROM (A) TO (JB4) W/ PULL STRING.
- (C5) NOT USED.
- (C6) 3/4" CONDUIT W/ CONDUCTORS FROM (EOS) TO (A)
- (C7) CONDUIT W/ CONDUCTORS FROM (A1) TO (JB5); SIZED PER CODE.
- (C8) CONDUIT W/ CONDUCTORS FROM (A1) TO (JB4); SIZED PER CODE.
- (WL) X-RAY IN USE LIGHT, CONNECT TO RED SWITCH LOCATED INSIDE OF X-RAY ROOM.
- (EOS) EMERGENCY OFF SWITCH (SHUNT TRIP TYPE) TO BE CONNECTED TO (A) MOUNTED 48" AFF.

Typical 32kw X-Ray Equipment Power Line Requirements

Line Voltage	Dist. Transfmr.	Wire Size - Distance from Distribution Transformer to Breaker Panel 'A'			Breaker Size	Wire Size 'A' to 'JB5' Max. 15'	Max. Line Impedance
Three Phase		50'	100'	200'			
208-240 VAC	45kVa	#2	#00	250MCM	100A	#4	0.09 Ω
400 VAC	45kVa	#6	#4	#1	100A	#6	0.27 Ω
240 VAC	45kVa	#9	#6	#3	100A	#6	0.40 Ω

Electrical Contractor to supply appropriate size conductors and Gnd in appropriate size conduit from 'A' Breaker Panel to 'JB5' leave 8' pigtail on 'JB5' side.

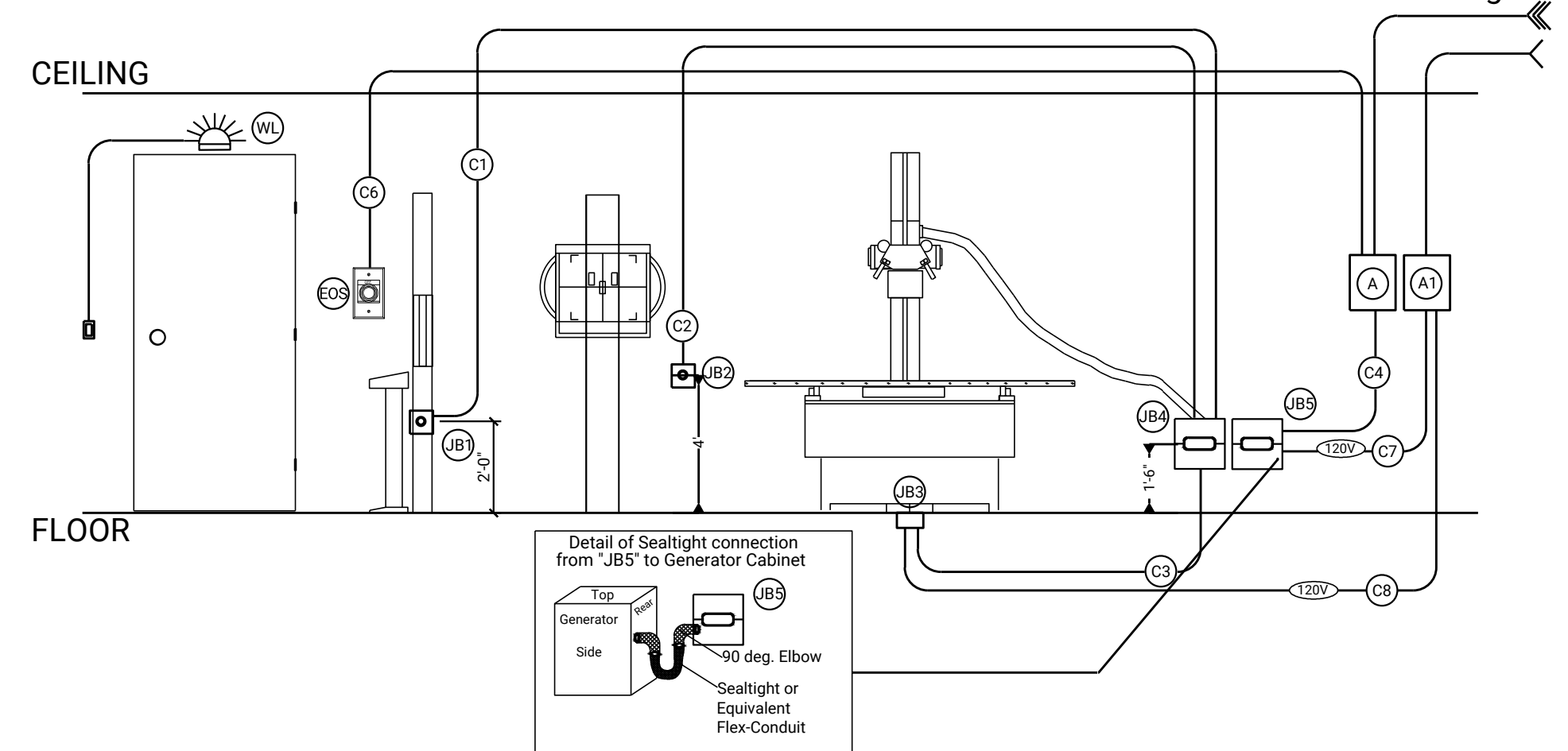
Note: Wire must be made of stranded flexible copper.

Grounding: Insulated grounding must conform with current requirements for electrically susceptible patient areas. See Article 517, National Electrical Code.

The Disconnect Switch should be a Shunt Trip type and the Emergency Shut-Off Switch should be placed in the Operator Control Area.

Maximum line regulation for maximum kVA demand: 5% under load

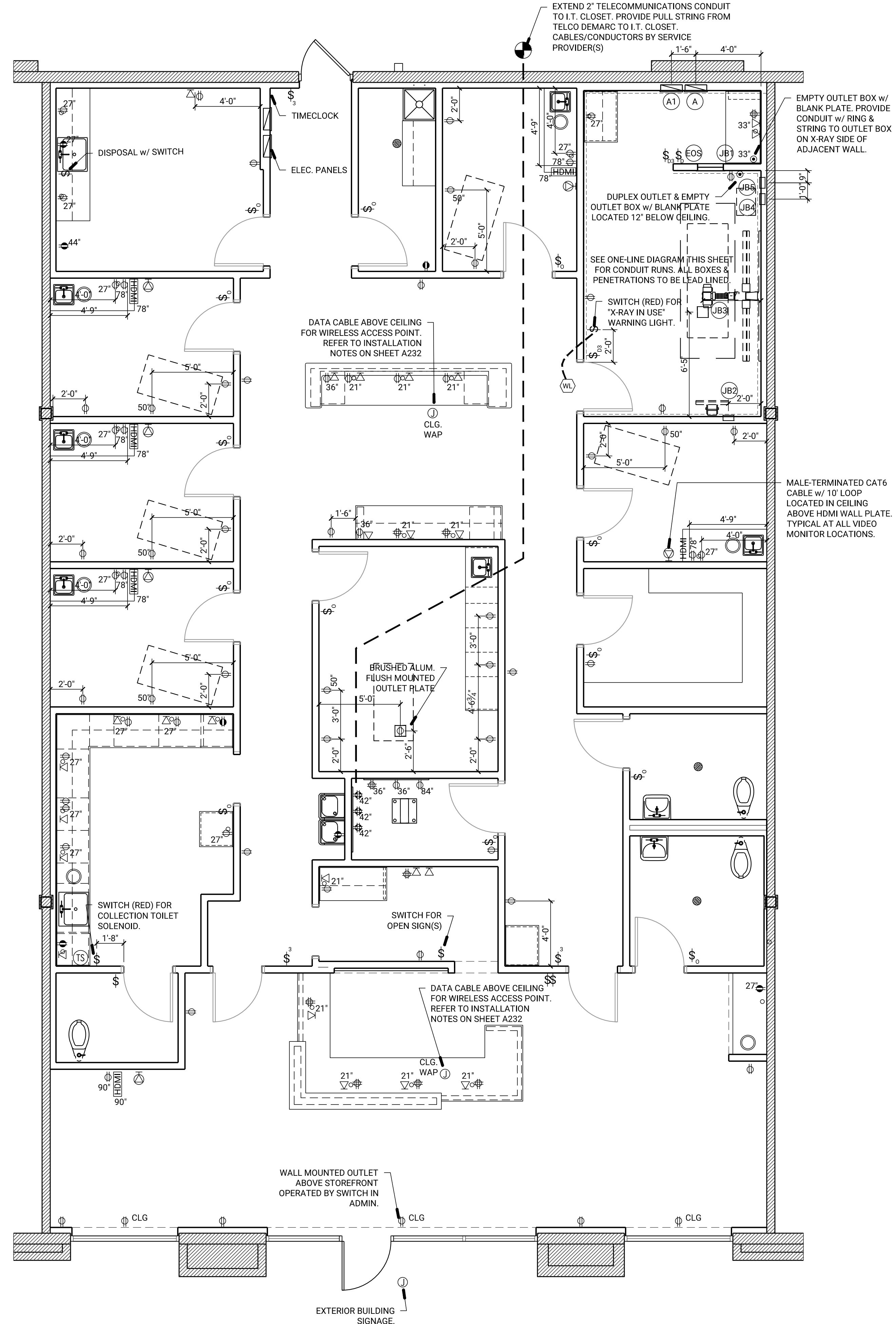
Note: All conduit runs should be as short as possible due to cable length limitations.



NEITHER TO SCALE NOR ROOM ORIENTATION
2 X-RAY ONE-LINE DIAGRAM
 NOT TO SCALE

POWER & DATA NOTES

- SYMBOL () DENOTES LOCATIONS OF VIDEO MONITORS. REFER TO SHEET A-232 FOR SETUP DETAILS.
- SYMBOL () DENOTES LOCATION OF WATER LINE SOLENOID FOR COLLECTION TOILET. INSTALL SOLENOID ABOVE CEILING, ACCESSIBLE FROM THE LAB SIDE. SOLENOID CONTROLLED BY RED SWITCH LOCATED IN THE LAB.
- ALL OUTLETS AND DATA INSTALLED AT 18" A.F.F., UNLESS NOTED OTHERWISE.
- ALL DEVICES AND COVER PLATES TO BE WHITE, UNLESS NOTED OTHERWISE.
- REFER TO INTERIOR ELEVATIONS FOR DIMENSIONS FOR POWER AND DATA DEVICES.
- PROVIDE TWO (2) COMPLETE DATA DROPS AT EACH DATA SYMBOL LOCATION SHOWN ON PLAN.



1 POWER & DATA PLAN
 SCALE: 1/4" = 1'-0"

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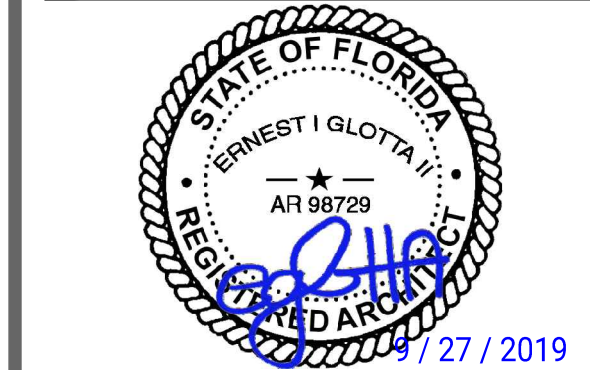
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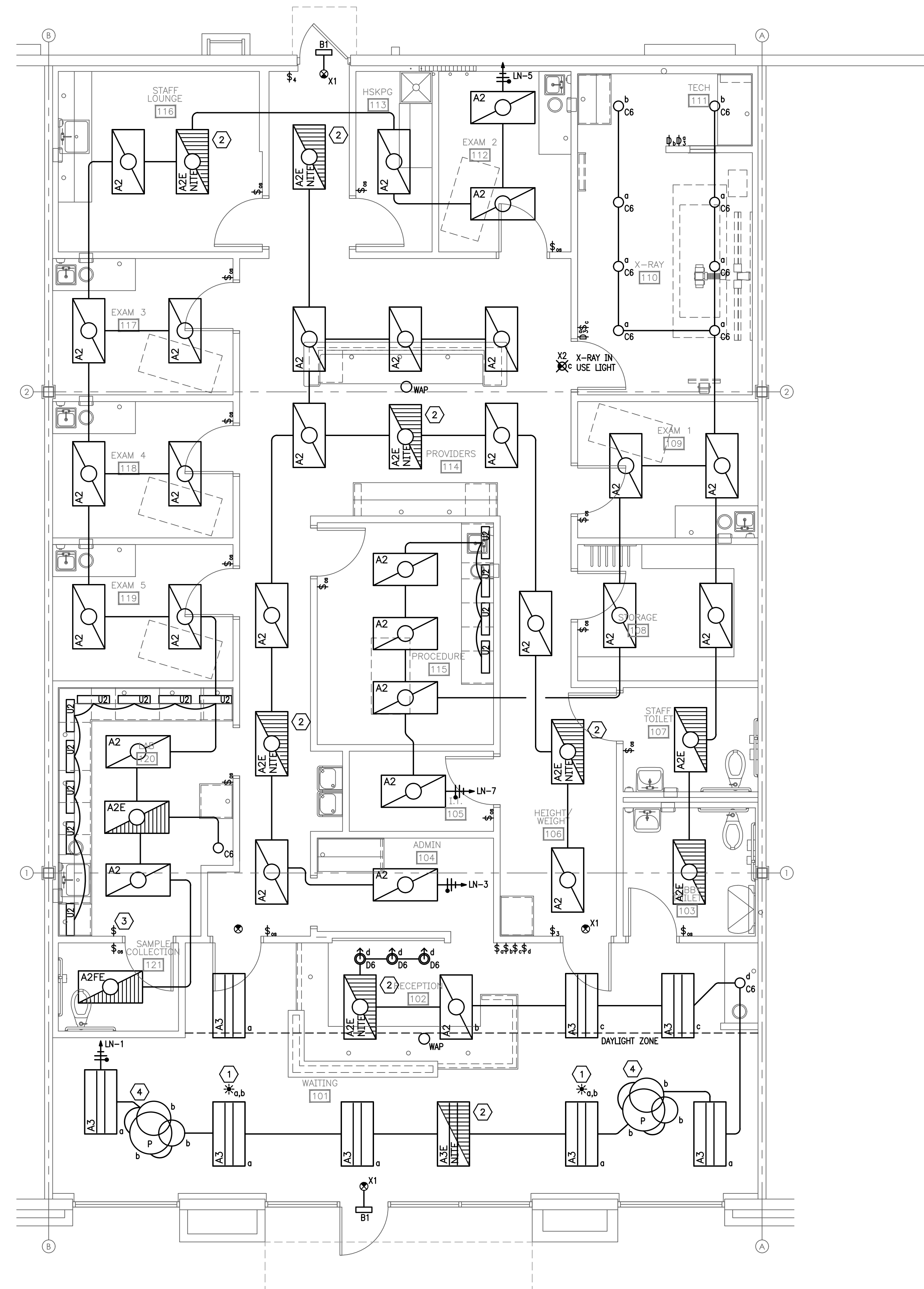
1923 - A 201 FLOOR PLAN.DWG



POWER & DATA PLAN

Project No. 1923
 Date 8 / 27 / 2019
 Last Revision -

A 231



1 FLOOR PLAN - LIGHTING
SCALE: 1/4" = 1'-0"
NORTH

GENERAL NOTES:

- A. COORDINATE ALL SWITCH LOCATIONS/SWITCH PATTERNS WITH TENANT/ARCHITECT PRIOR TO INSTALLATION.
- B. CONTRACTOR TO INSTALL NEW OCCUPANCY SENSOR SWITCH (\$05) AS SHOWN. MATCH BUILDING STANDARD. IF NO STANDARD IS ESTABLISHED, INSTALL WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR, MANUAL "ON"/"AUTOMATIC "OFF" WITHIN 30 MINUTES OF OCCUPANCY VACATING SPACE, EQUAL TO HUBBELL #LHM1S1 OR EQUIVALENT. COORDINATE FINISH WITH ARCHITECT.
- C. CONTRACTOR TO INSTALL NEW CEILING MOUNTED OCCUPANCY SENSOR (\$10) AS SHOWN. MATCH BUILDING STANDARD. IF NO STANDARD IS ESTABLISHED, INSTALL PROVIDE CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR, MANUAL "ON"/"AUTOMATIC "OFF" WITHIN 30 MINUTES OF OCCUPANCY VACATING SPACE, EQUAL TO HUBBELL #OMNIDT2000 OR EQUIVALENT. PROVIDE POWER PACK AS REQUIRED. COORDINATE FINISH WITH ARCHITECT. LOCATIONS SHOWN ARE APPROXIMATE. REFERENCE HUBBELL INSTALLATION MANUAL FOR OPTIMUM PLACEMENT OF SENSORS.
- D. AT ALL LOCATIONS WHERE CEILING OCCUPANCY SENSORS ARE SHOWN TO BE USED IN CONJUNCTION WITH A WALL SWITCH/DIMMER, CONTRACTOR TO ROUTE LIGHTING CIRCUIT THROUGH SENSOR FIRST, THEN TO LIGHT SWITCH/DIMMER, THEN TO LIGHT FIXTURE. PROVIDE POWER PACKS FOR AREAS CONTAINING 120V & 277V CIRCUITS MONITORED BY THE SAME CEILING OCCUPANCY SENSOR.
- E. PROVIDE BATTERY PACKS FOR ALL EMERGENCY FIXTURES AND EXIT SIGNS. BATTERY PACK SHALL BE RATED FOR A MINIMUM OF 90 MINUTES AND SHALL CARRY 100% OF THE LAMP LUMEN OUTPUT. WIRE FIXTURES AHEAD OF SWITCH.
- F. PER NEC 410, ALL FIXTURES WITH DOUBLE ENDED LAMPS AND CONTAIN BALLAST(S) THAT ARE SERVICED IN PLACE SHALL BE INSTALLED WITH INTERNAL OR EXTERNAL DISCONNECTING MEANS THAT SIMULTANEOUSLY DISCONNECTS ALL CONDUCTORS INCLUDING THE GROUNDED CONDUCTOR. EXTERNAL DISCONNECTS MUST BE INSTALLED ADJACENT TO EACH CORRESPONDING FIXTURE AND THE LINE SIDE TERMINALS MUST BE GUARDED.
- G. CONTRACTOR TO PROVIDE DIMMING BALLASTS WITH ALL DIMMED FLUORESCENT FIXTURES OR DIMMING DRIVER FOR LED FIXTURES. REFERENCE PLAN FOR LOCATIONS AND QUANTITIES. FIELD VERIFY DIMMING SWITCH TYPE AND CONNECTION REQUIREMENTS WITH LIGHTING FIXTURE MANUFACTURER.
- H. LOWERCASE LETTER INDICATES SWITCH DESIGNATION U.N.O.
- I. UNLESS NOTED OTHERWISE (U.N.O.) ALL EXIT SIGNS AND EMERGENCY LIGHTING FIXTURES SHALL BE CONNECTED TO ROOM/CORRIDOR/EXTERIOR LIGHTING CIRCUIT UNSWITCHED HOT LEG.
- J. UNLESS NOTED OTHERWISE (U.N.O.) ALL EXIT SIGNS AND EMERGENCY LIGHTING FIXTURES SHALL BE CONNECTED TO ROOM/CORRIDOR/EXTERIOR LIGHTING CIRCUIT UNSWITCHED HOT LEG. REFER TO DETAIL 6/E-6 FOR SWITCHED EMERGENCY DETAIL.

KEY NOTES:

- 1 WHERE PHOTOCELL INDICATED (*), ASSOCIATED CEILING MOUNTED OCCUPANCY SENSORS SHALL BE EQUAL TO HUBBELL #OMNIDT2000RP OR EQUIVALENT WITH REMOTE PHOTOCELL AND RELAY. EXTEND SWITCH LEG SERVING LIGHTING FIXTURES WITHIN DESIGNATED DAYLIGHT ZONE THROUGH RELAY CONTROLLED BY PHOTOCELL. PHOTOCELL SENSITIVITY SHALL BE SET AS DIRECTED BY TENANT. LOCATIONS SHOWN ARE APPROXIMATE. REFERENCE HUBBELL BUILDING AUTOMATION INSTALLATION MANUAL FOR OPTIMUM PLACEMENT OF SENSORS.
- 2 THIS FIXTURE IS AN EMERGENCY FIXTURE AND IS TO BE USED AS A NIGHT LIGHT FIXTURE. CIRCUIT FIXTURE AND BATTERY PACK ON UNSWITCHED LEG OF LOCAL LIGHT CIRCUIT. REFER TO DETAIL 3/E-6 FOR UNSWITCHED EMERGENCY DETAIL.
- 3 SWITCH (RED IN COLOR) TO CONTROL WATER SUPPLY SOLENOID TO ADJACENT RESTROOM TOILET. CIRCUIT TO NEAREST 120V CONVENIENCE RECEPTACLE.
- 4 COORDINATE FINAL FIXTURE LOCATIONS WITH CLIENT PRIOR TO INSTALLATION.



CONTRACTOR SHALL COORDINATE
MEP DRAWINGS WITH ALL OTHER
DISCIPLINES



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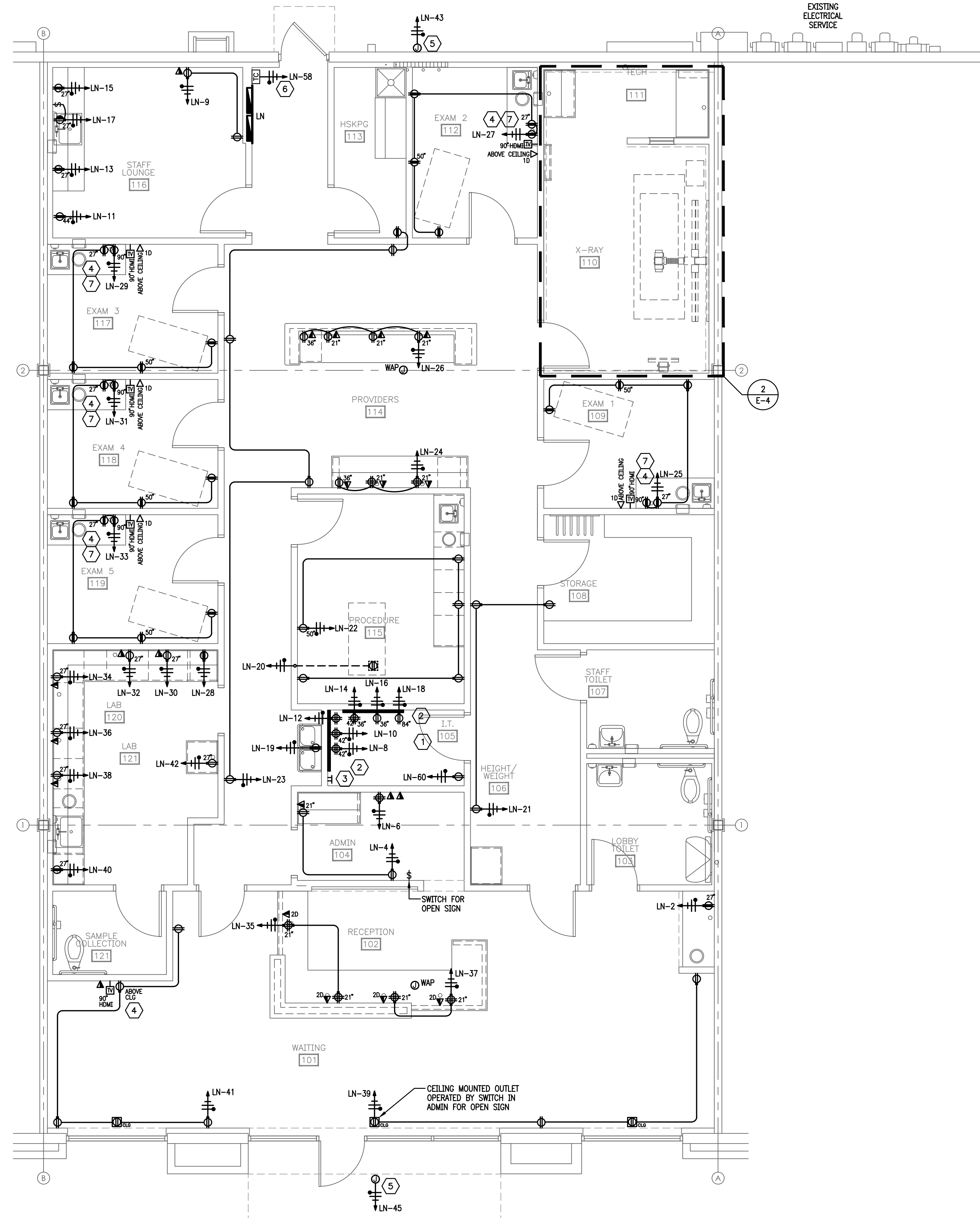
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Project No.	1923
Date	09/27/2019
Last Revision	E-1



1 FLOOR PLAN - POWER
SCALE: 1/4" = 1'-0"
NORTH

GENERAL NOTES:

- A. CONTRACTOR TO PROVIDE CODE MINIMUM FIRE ALARM SYSTEM FOR ABOVE SPACE. INSTALLATION SHALL MEET ALL APPLICABLE LOCAL, STATE, AND NATIONAL CODES.
- B. VERIFY ALL FIRE ALARM DEVICE LOCATIONS WITH ARCHITECT PRIOR TO INSTALLING BOXES.
- C. PROVIDE JUNCTION BOX AND 3/4" CONDUIT WITH PULL STRING TO ACCESSIBLE CEILING FROM ALL SECURITY DEVICE LOCATIONS. VERIFY EXACT LOCATION OF DEVICES WITH SECURITY VENDOR PRIOR TO INSTALLATION.
- D. PROVIDE ALL NECESSARY 120V POWER FOR ALL SECURITY DEVICES. COORDINATE REQUIREMENTS AND LOCATIONS WITH SECURITY VENDOR.
- E. ALL RECEPTACLES AND TELE/DATA DEVICES TO BE INSTALLED AT 18" AFF UNLESS OTHERWISE NOTED.
- F. VERIFY EXACT LOCATION OF ALL MECHANICAL AND PLUMBING EQUIPMENT WITH MECHANICAL AND PLUMBING CONTRACTOR PRIOR TO INSTALLATION.
- G. CONTRACTOR TO VERIFY EXACT LOCATIONS, ELECTRICAL REQUIREMENTS AND NEMA CONFIGURATIONS FOR COPIERS WITH OWNER/COPIER MANUFACTURER PRIOR TO ROUGH-IN.
- H. ALL RECEPTACLES WITHIN 6' OF WATER SOURCE TO BE GFCI PROTECTED.
- I. CONTRACTOR TO REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS, MOUNTING HEIGHTS AND QUANTITIES OF ALL ELECTRICAL DEVICES.
- J. ALL "TV" LOCATIONS SHALL HAVE HUBBELL FLAT PANEL CONNECTION ENCLOSURE #NS4V62M-NSOPS, OR APPROVED EQUAL, BEHIND ALL TV LOCATIONS. COORDINATE ALL AV CONNECTION REQUIREMENTS WITH TENANT PRIOR TO ORDER AND INSTALLATION. PROVIDE ELECTRICAL CONNECTION AS INDICATED ON PLANS.
- K. PROVIDE 2 DATA DROPS AT EACH LOCATION, UNLESS NOTED OTHERWISE.

KEYED NOTES:

- 1. VERIFY EXACT ELECTRICAL REQUIREMENTS AND LOCATION OF IT RECEPTACLES WITH TENANT PRIOR TO INSTALLATION.
- 2. PROVIDE 4"x8" PLYWOOD BACKBOARD FOR TELEPHONE/DATA EQUIPMENT. ROUTE NEW 2" CONDUIT WITH PULL STRING FROM EXISTING TELE/CAIV BUILDING SERVICE ENTRANCE TO BACKBOARD LOCATION. VERIFY EXACT LOCATION WITH TENANT PRIOR TO INSTALLATION.
- 3. CONTRACTOR TO INSTALL WALL MOUNTED COPPER GROUND BAR AS SHOWN. ROUTE 1-#6 INSULATED GROUND WIRE FROM BUILDING GROUND RISER TO GROUND BAR. COORDINATE EXACT LOCATION OF BAR AND BRANCH GROUND WIRING REQUIREMENTS OUT FROM BAR WITH TENANT PRIOR TO PURCHASE AND INSTALLATION.
- 4. VIDEO SIGNAL RECEIVER LOCATED ABOVE CEILING PROVIDED BY TENANT. PROVIDE DATA FROM IT CLOSET AND HDMI CABLE DROP TO MONITOR LOCATION.
- 5. JUNCTION BOX FOR EXTERIOR SIGNAGE. ROUTE THROUGH TIME CLOCK FOR ON/OFF CONTROL. COORDINATE EXACT LOCATION IN THE FIELD PRIOR TO ROUGH-IN.
- 6. CONTRACTOR TO PROVIDE TIMECLOCK. COORDINATE EXACT LOCATION IN FIELD PRIOR TO ROUGH-IN.
- 7. CONTRACTOR TO PROVIDE A REMOTE GFCI RESET LOCATED UNDER COUNTER FOR ALL GFCI RECEPTACLES.

CONTRACTOR SHALL COORDINATE MEP DRAWINGS WITH ALL OTHER DISCIPLINES



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Clermont Retail Building**
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Lake County, Florida 34711
CONSTRUCTION DOCUMENTS

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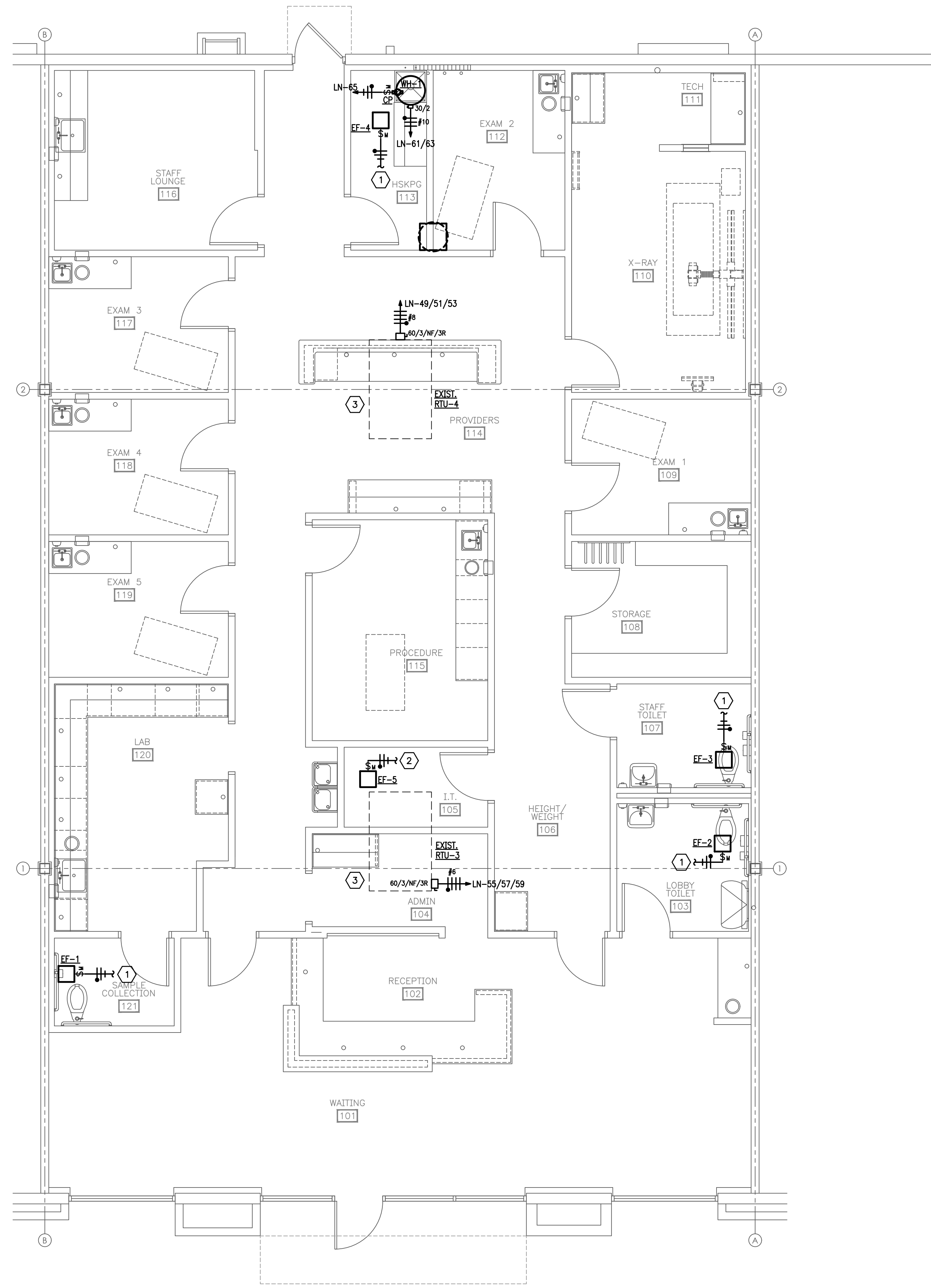
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**POWER
FLOOR
PLAN**

Project No.	1923
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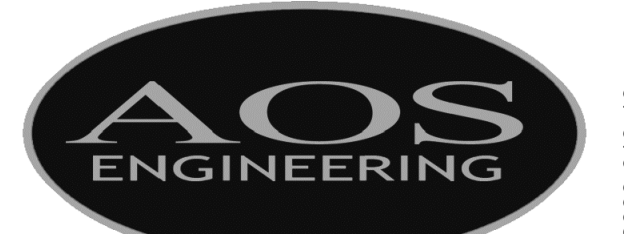


KEYED MECHANICAL POWER NOTES:

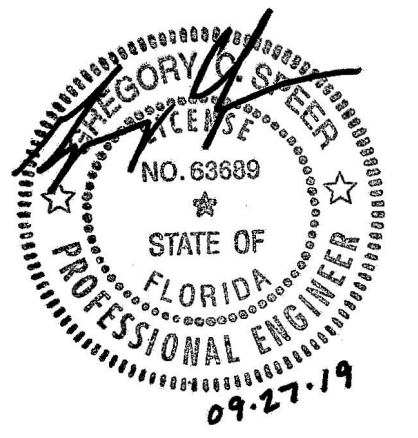
- 1 CONNECT EXHAUST FAN TO ROOM LIGHTING CIRCUIT SWITCHED HOT LEG.
- 2 EXHAUST FAN EF-5 SHALL BE CONTROLLED THERMOSTATICALLY. CONNECT TO NEAREST GENERAL POWER BRANCH CIRCUIT. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT REQUIREMENTS PRIOR TO ROUGH-IN.
- 3 CONTRACTOR TO VERIFY A WP/GFI SERVICE RECEPTACLE IS LOCATED WITHIN 25' OF ALL NEW ROOF MOUNTED EQUIPMENT. IF NO SERVICE RECEPTACLE IS LOCATED WITHIN THIS RANGE, CONNECT TO CIRCUIT LN-47 (PROVIDE NEW 20A/1P CIRCUIT BREAKER), VIA 2#12, 1#12G, 3/4" C.

1 FLOOR PLAN - MECHANICAL POWER
SCALE: 1/4" = 1'-0"

CONTRACTOR SHALL COORDINATE MEP DRAWINGS WITH ALL OTHER DISCIPLINES



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Clermont Retail Building**
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**MECHANICAL POWER
FLOOR
PLAN**

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Date	09/27/2019
Last Revision	E-3

AOS JOB #: 2039-019-19

