

ELECTRICAL DEMOLITION - GENERAL NOTES

- REFERENCE ARCHITECTURAL DRAWINGS FOR FULL EXTENT OF DEMOLITION WORK AND PHASING. NOTIFY ARCHITECT, ENGINEER AND OWNER, AS APPLICABLE, OF ANY CONFLICTS OR DISCREPANCIES BETWEEN DRAWINGS AND JOB SITE CONDITIONS PRIOR TO SUBMITTING BID.
- ALL ELECTRIC POWER MUST BE DISCONNECTED BEFORE STARTING DEMOLITION. TEMPORARY LIGHTING FOR ALL TRADES MUST BE INSTALLED.
- COORDINATE DISCONNECTION OF POWER TO EQUIPMENT BEING DEMOLISHED/REMOVED/RELOCATED WITH OTHER TRADES PRIOR TO START OF WORK.
- WHEN REMOVING WALL MOUNTED RECEPTACLES WITH CONDUIT IN FLOORS OR WALLS, ALL CONDUIT AND WIRE IS TO BE REMOVED (CHOPPING AND PATCHING OF CONCRETE FLOOR INCLUDED) BACK TO PANEL OF ORIGIN U.O.N.
- IN AREAS DESIGNATED FOR DEMOLITION BY THE ARCHITECTURAL DRAWINGS, IT IS THE INTENT OF THIS CONTRACT THAT THE CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL, TELECOMMUNICATION, SECURITY AND AUDIOVISUAL EQUIPMENT INCLUDING: PULLBOXES, FLOOR RECEPTACLES, POWER AND TEL DATA DOORHOUSE OUTLETS, WALL MOUNTED RECEPTACLES, TELEPHONE/DATA OUTLETS, CONTROL DEVICES AND LIGHT SWITCHES, POWER OUTLETS, BOXES, WIRING, RACEWAYS, CONDUITS AND CABLE TRAYS, AND ALL OTHER EQUIPMENT UNLESS OTHERWISE NOTED WHICH IS MOUNTED ON WALLS OR PARTITIONS THAT WILL BE TAKEN OUT. REMOVE BRANCH CIRCUITRY BACK TO NEAREST DEVICE SCHEDULED TO REMAIN AND SAFETY TERMINATE ALL CONNECTIONS - MAINTAIN CONTINUITY OF ALL EXISTING FEEDERS AND BRANCH CIRCUITRY TO EXISTING AREAS NOT BEING AFFECTED BY THIS DEMOLITION-ALL WORK TO BE DONE IN AN APPROVED MANNER.
- THE BUILDING FIRE ALARM SYSTEM INTEGRITY SHALL BE MAINTAINED AT ALL TIMES (BEFORE, DURING AND AFTER DEMOLITION AND/OR CONSTRUCTION). ALL FIRE ALARM DEVICES SHALL REMAIN IN PLACE DURING ALL PHASES OF DEMOLITION AND CONSTRUCTION. TEMPORARILY SUPPORT ALL DEVICES LOCATED ON WALLS OR CEILINGS TO BE DEMOLISHED. IF THE EXISTING SYSTEM IS FOUND TO BE NON-REPAIRABLE, PROVIDE A TEMPORARY SYSTEM DURING CONSTRUCTION. PROVIDE A FIRE WATCH IF REQUIRED BY LOCAL OFFICIALS.
- FIRE ALARM COVERAGE MUST BE MAINTAINED BEFORE, DURING, AND AFTER CONSTRUCTION. SCHEDULE WORK SUCH THAT NEW FIRE ALARM SYSTEM IS INSTALLED, PRE-TESTED, AND OPERATIONAL BEFORE DECOMMISSIONING AND REMOVING THE EXISTING FIRE ALARM SYSTEM. CONTRACTOR SHALL INCLUDE PRICE FOR ANY AND ALL FIRE WATCH IF NECESSARY FOR ANY TIME THE FIRE ALARM SYSTEM IS OFFLINE.
- THE BUILDING CCTV AND SECURITY SYSTEM INTEGRITY SHALL BE MAINTAINED AT ALL TIMES (BEFORE, DURING AND AFTER DEMOLITION AND/OR CONSTRUCTION). COORDINATE WITH OWNER REMOVAL OF CCTV AND SECURITY SYSTEM DEVICES. RELOCATE TEMPORARILY, IF REQUIRED BY OWNER. ALL DEVICES LOCATED ON WALLS OR CEILINGS TO BE DEMOLISHED.
- PROVIDE TEMPORARY LIGHTING AND POWER FOR ALL TRADES DURING DEMOLITION AND CONSTRUCTION - WHEN USING TEMPORARY LIGHTING, THE CONTRACTOR SHALL CLEARLY LABEL PANELS AND BREAKERS USED FOR LIGHTING. LOCATION OF PANELS TO BE SHOWN ON FLOOR PLAN. POSTED AT ENTRANCE TO WORK AREA. PROPER TEMPORARY LIGHTING AND POWER MUST BE INSTALLED AND MAINTAINED IN ALL WORK AREAS. TEMPORARY LIGHT AND POWER STRINGERS SHALL UTILIZE C-TAP TERMINATIONS. LAMP HOLDERS SHALL HAVE LEFT HANDED SCREEN SHELL, LAMP HOLDERS AND NON-METALLIC LAMP GUARDS. CONNECTIONS TO EXISTING STAIRWELL AND EXIT LIGHT SYSTEMS ARE NOT PERMITTED.
- DEMOLITION PLANS ARE INTENDED TO INDICATE MINIMUM DEMOLITION WORK. CONTRACTOR SHALL VERIFY IN FIELD THE FULL EXTENT OF THE WORK. CONTRACTOR SHALL INFORM ARCHITECT AND ELECTRICAL ENGINEER OF ANY DISCREPANCIES.
- ELECTRICAL PANEL COVERS ARE NOT TO BE LEFT OFF AT ANY TIME UNLESS WORK IS BEING DONE. COVERS SHALL BE REPLACED EACH NIGHT BEFORE LEAVING JOB SITE.
- BRANCH CIRCUITRY AND CONTROL WIRING FOR MECHANICAL EQUIPMENT AND DEVICES TO BE REMOVED. EQUIPMENT SHALL BE DISCONNECTED AND REMOVED. COORDINATE WITH MECHANICAL CONTRACTOR ON THESE REMOVALS. RELOCATE ANY CONTROL DEVICES TO TEMPORARY LOCATIONS IF REQUIRED. FOR EXISTING A/C UNITS TO BE REMOVED, DISCONNECT AND REMOVE STARTERS, DISCONNECT SWITCHES, JUNCTION BOXES, POWER AND CONTROL WIRING BACK TO SOURCE. CONTINUITY SHALL BE MAINTAINED ON ALL ELECTRICAL CIRCUITS FEEDING POWER TO A/C UNITS OR MECHANICAL EQUIPMENT NOT BEING REMOVED. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS AND QUANTITIES.
- ALL ELECTRICAL DEVICES REMOVED AND TO BE REINSTALLED SHALL BE CLEANED. ALL OTHER DEVICES THAT ARE REMOVED AND MADE SURPLUS SHALL BE REMOVED FROM THE SITE. CONTRACTOR MUST OBTAIN OWNER'S APPROVAL FOR DISPOSITION. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROPER DISPOSAL OF ALL ELECTRICAL EQUIPMENT NOT DEEMED SALVAGEABLE BY OWNER.
- ELECTRICAL CONTRACTOR SHALL VISIT AND EXAMINE CAREFULLY THE EXISTING AREAS AFFECTED BY THIS WORK TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND WITH DIFFICULTIES THAT WILL ATTEND THE EXECUTION OF THE WORK. CONTRACTOR SHALL PERFORM THIS, PRIOR TO SUBMITTING PROPOSAL. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE AND LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES/DIFFICULTIES ENCOUNTERED, WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE.
- THE CONTRACTOR SHALL MAINTAIN CONTINUITY OF SERVICE ON ALL CIRCUITS AFFECTED BY THIS DEMOLITION. WHENEVER IT IS REQUIRED THAT AN EXISTING CIRCUIT BE REVISED, DISCONNECTED OR REMOVED, IT SHALL BE UNDERSTOOD THAT THE CIRCUIT SHALL BE RECONNECTED AND SERVICE REESTABLISHED IN THE REMAINING PORTION OF THE CIRCUIT AFFECTED BY THIS ALTERATION.
- THE CONTRACTOR SHALL REMOVE, WHETHER CONCEALED OR EXPOSED, ALL WIRES, CONDUITS, CABLE TRAYS, WIREWAYS, OUTLET BOXES, PULLBOXES, HANGERS, ETC. MADE OBSOLETE BY THE ALTERATION WORK.
- LOW VOLTAGE CABLES/WIRING NOT BEING REUSED SHALL BE REMOVED UNLESS IDENTIFIED FOR FUTURE USE. COORDINATE REQUIREMENTS WITH OWNER. CARE SHOULD BE TAKEN DURING THE REMOVAL PROCESS TO PROTECT THE EXISTING REUSED CABLES/WIRING FROM DAMAGE.
- IN CONNECTION WITH THE ALTERATIONS TO THE EXISTING BUILDING, THERE WILL BE CERTAIN REMOVALS AND RELOCATIONS OF THE EXISTING ELECTRICAL WORK NECESSARY FOR THE SATISFACTORY PERFORMANCE OF THE GENERAL WORK. THESE CHANGES CANNOT BE COMPLETELY DETAILED ON THE DRAWINGS BUT SHOULD BE TAKEN INTO CONSIDERATION BY THE CONTRACTOR IN PREPARING THIS PROPOSAL FOR THIS WORK.
- DURING DEMOLITION PROCEDURES, PROVIDE ALL NECESSARY PROTECTION FOR EXISTING ELECTRICAL WORK REQUIRED FOR REUSE.
- WHERE ELECTRICAL EQUIPMENT EXISTS IN OR ON SURFACES OR EQUIPMENT IS TO BE REMOVED, THE CONTRACTOR SHALL COORDINATE THE WORK OF OTHER TRADES SO THAT ELECTRICAL EQUIPMENT IS DE-ENERGIZED PRIOR TO REMOVAL OF THE SURFACE.
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PROJECT NOTES:

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△	Date	Description
1	4/4/23	ISSUED FOR 90% PROGRESS
2	4/13/23	ISSUE FOR BID, PERMIT & CONSTRUCTION

Seal / Signature

Project Name
38TH FLOOR

Project Number
1462005

Description
ELECTRICAL DEMO PLAN

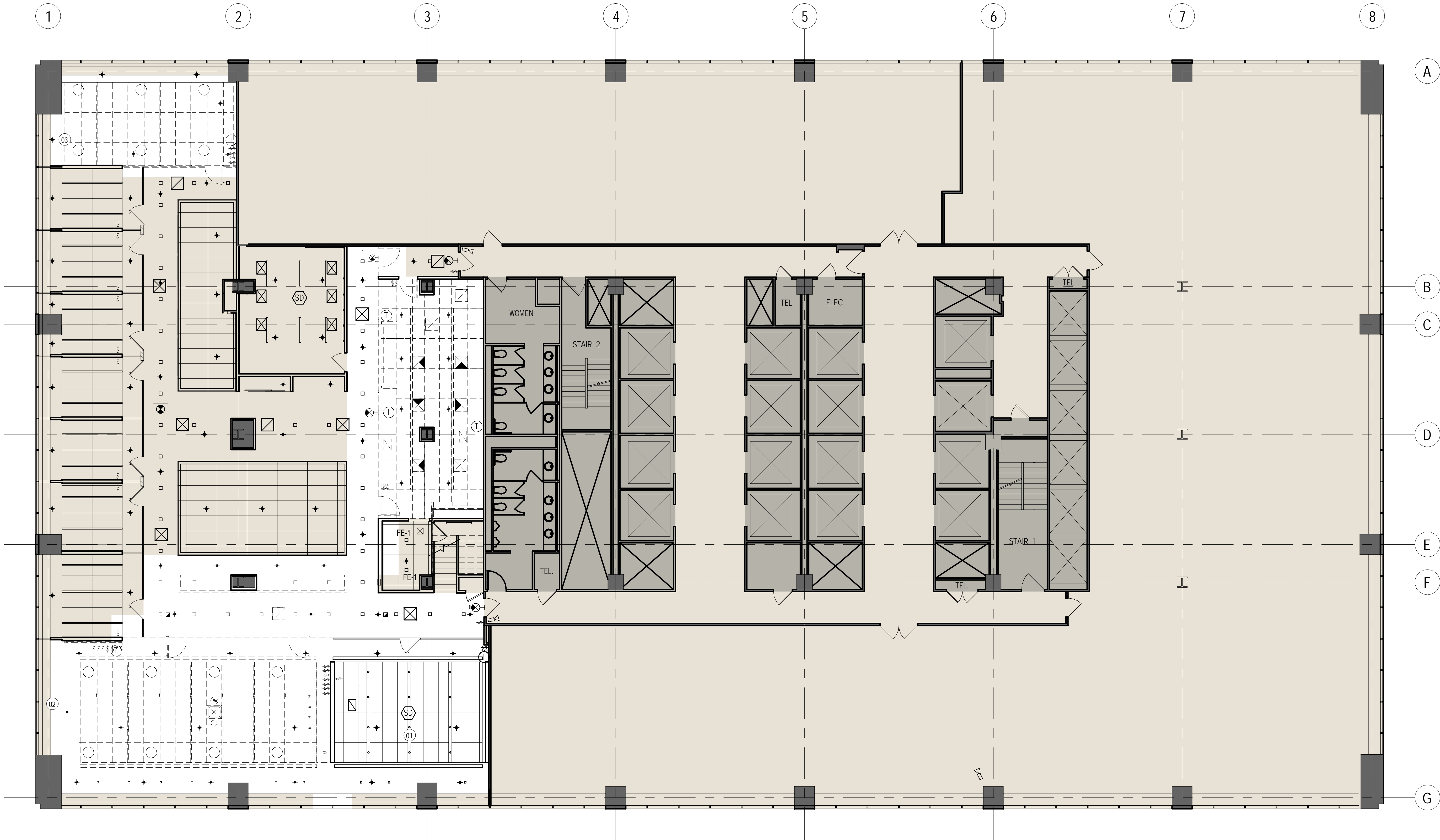
Scale
As indicated

DM-300.00

DOB NOW:
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Seal / Signature

Project Name
38TH FLOOR

Project Number
1462005

Description
ELECTRICAL RCP DEMO PLAN

Scale
1/8" = 1'-0"

DM-301.00

DOB NOW:
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ELECTRICAL CODES	
PROJECT IS DESIGNED IN COMPLIANCE WITH THE FOLLOWING CODES. THIS IS NOT AN EXHAUSTIVE LIST. PROJECT SHALL COMPLY WITH ALL APPLICABLE CODES, STANDARDS AND LOCAL REQUIREMENTS.	
ELECTRICAL CODE: 2011 NYC ELECTRICAL CODE (2008 NEC WITH 2011 AND 2013 NYC AMENDMENTS)	
BUILDING CODE: 1968 BUILDING CODE VIA §28-101.4.3 EXCEPTIONS FOR THE 2022 NYC BC	
ENERGY CODE: 2020 NYC ENERGY CONSERVATION CODE	

ELECTRICAL GENERAL NOTES	
1. ALL WORK SHALL CONFORM TO ALL LOCAL CODES AND ORDINANCES AS WELL AS APPLICABLE INDUSTRY STANDARDS AND ALL GOVERNING AGENCIES HAVING JURISDICTION. ALL WORK SHALL CONFORM TO BUILDING STANDARDS AND, WHERE REQUIRED, SHALL BE SUBMITTED TO APPROPRIATE AGENCIES AND PUBLIC JURISDICTIONS FOR INSPECTION AND APPROVAL. ALL EQUIPMENT SHALL BEAR LABELS FOR THE USE INTENDED BY AN AHJ ACCEPTED NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL), SUCH AS UL OR ETL. THE FINAL ELECTRICAL INSTALLATION OF THE FACILITY OCCUPIED BY OWNER SHALL BE FREE FROM ELECTRICAL DEFECTS TO THE SATISFACTION OF THE AHJ, OWNER, ARCHITECT AND ENGINEER.	26. COMMISSIONING / FUNCTIONAL TESTING: CONTRACTOR'S BID SHALL INCLUDE PROVISIONS TO PROVIDE ALL SERVICES RELATED TO THE CODE REQUIRED BUILDING SYSTEMS COMMISSIONING INCLUDING A COMMISSIONING PLAN, FUNCTIONAL TESTING, AND RELATED DOCUMENTATION, REPORTS AND OWNER TRAINING. THIS INCLUDES RETAINING THE SERVICES OF A 3RD PARTY REGISTERED DESIGN PROFESSIONAL OR APPROVED AGENCY. REFER TO THE LATEST ADOPTED EDITION OF THE APPLICABLE ENERGY CODE FOR MORE INFORMATION. CONTRACTOR SHALL COMPLETE ALL RELATED COMMISSIONING REQUIREMENTS PRIOR TO FINAL INSPECTIONS IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS, CODE AND MANUFACTURER'S INSTRUCTIONS.
2. THE DRAWINGS INDICATE SIZE AND GENERAL LOCATION OF WORK. SCALE DIMENSIONS SHALL NOT BE USED. THE EXACT LOCATION AND ELEVATION OF ALL LIGHTS, SWITCHES, RECEPTACLES, OUTLETS, ETC., SHALL BE DETERMINED FROM THE ARCHITECT'S DRAWINGS. U.O.N. COORDINATE FINAL LOCATION AND INSTALLATION REQUIREMENTS OF ALL LIGHT FIXTURES, ELECTRICAL EQUIPMENT AND ELECTRICAL DEVICES WITH ARCHITECTURAL DRAWINGS, EXISTING CONDITIONS AND OTHER TRADES PRIOR TO ROUGH-IN. PROVIDE ALL NECESSARY DEVICES, CORDS, PLUGS, DISCONNECTS AND FINAL CONNECTIONS TO ELECTRICAL EQUIPMENT FOR PROPER OPERATION IN ACCORDANCE WITH CODE, OWNER AND MANUFACTURER REQUIREMENTS.	27. THE OPERATION OF THE ELECTRICAL INSTALLATION DOES NOT CONSTITUTE ACCEPTANCE OF THE WORK BY THE OWNER. FINAL ACCEPTANCE IS TO BE MADE AFTER THE CONTRACTOR HAS DEMONSTRATED THAT THE WORK FULFILLS THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS AND HAS FURNISHED ALL REQUIRED CERTIFICATES OF APPROVAL FROM THE STATE AUTHORITIES, MUNICIPAL AUTHORITIES AND UNDERWRITERS.
3. ANY DAMAGE TO EXISTING PARTITIONS, FLOORS, CEILING OR ANY PART OF THE BUILDING OR EQUIPMENT CAUSED BY THE WORK OF THE CONTRACT SHALL BE REPAIRED AT NO ADDITIONAL EXPENSE TO THE OWNER.	28. ONLY CABLES WITH TEFLON OR EQUIVALENT PLENUM TYPE INSULATION AND JACKET MAY BE RUN ABOVE HUNG CEILING AND/OR BELOW RAISED FLOOR. PROVIDE ALL PROPER SUPPORTS AS REQUIRED. NON-PLENUM RATED CABLES TO BE RUN IN RACEWAY.
4. ALL ELECTRIC POWER MUST BE DISCONNECTED BEFORE STARTING DEMOLITION.	29. TELEPHONE CABLES PASSING THROUGH TELEPHONE CLOSET SHALL BE RUN THROUGH SLEEVES OF RIGID GALVANIZED STEEL CONDUIT OR EMT. SEAL AROUND CABLING WITH APPROVED FIRE STOP.
5. ELECTRICAL CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES AND CONFER WITH OTHER CONTRACTORS WHOSE WORK MIGHT AFFECT THIS INSTALLATION.	30. ALL NEW CONDUIT PIPES, SLEEVES, ETC. INSTALLED THROUGH FIRE RATED WALLS AND SLABS SHALL BE PROVIDED WITH FIRE STOP SEALANT. RATING OF FIRE STOP SEALANT TO MATCH WALL / SLAB BEING PENETRATED.
6. 3/4" CONDUIT SHALL BE THE MINIMUM SIZE CONDUIT INSTALLED.	31. PROVIDE GROUND WIRE IN ALL FEEDERS AND BRANCH CIRCUITS.
7. BRANCH CIRCUIT SIZES ARE BASED ON COPPER (CU) THHN/THWN-2 INSULATION, UNLESS NOTED OTHERWISE. CONDUIT SIZES SHOWN ARE APPROPRIATE FOR SCHEDULE 40 PVC, EMT, GRS, IMC AND IMC. ADJUST SIZE AS NEEDED FOR OTHER RACEWAY TYPES. ALL CONDUCTOR SIZES ARE BASED ON 90 DEG C RATED TERMINATIONS, UNLESS NOTED OTHERWISE. FOR ANY OTHER CONDITIONS MODIFY SIZES PER CODE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.	32. EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND SITE VISITS AND MAY NOT REFLECT ACTUAL "AS-BUILT" CONDITIONS. VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BID.
8. ELECTRICAL METALLIC TUBING (E.M.T.) SHALL BE USED WITH COMPRESSION TYPE FITTINGS ONLY.	33. NOTIFY ARCHITECT, ENGINEER AND OWNER, AS APPLICABLE, IF ANY DANGEROUS CONDITIONS EXIST ON JOB SITE BEFORE ANY DEMOLITION OR REMODEL WORK BEGINS.
9. MC CABLE AND IMC MAY BE USED FOR WIRING NOT TO EXCEED 4 FEET FROM JUNCTION BOXES ATTACHED TO BUILDING STRUCTURE TO LIGHT FIXTURES LOCATED IN ACCESSIBLE CEILINGS. FOR FINAL CONNECTIONS NOT TO EXCEED 6 FEET TO ANY MOTORS, FROM WALL OR FLOOR TO FURNITURE SYSTEMS NOT TO EXCEED 18 INCHES. FROM JUNCTION BOXES AT TOP PLATE OF STUD WALL FOR VERTICAL DROPS TO DEVICE BELOW WITHIN A STUD WALL, HORIZONTAL RUNS WITHIN THE CONTIGUOUS WALL, CONNECTING DEVICES ON THE SAME CIRCUIT, AND LENGTHS NOT TO EXCEED 15 FEET CONNECTING TOP PLATE JUNCTION BOXES ON THE SAME CIRCUIT. PROHIBITED USES OF MC CABLE INCLUDE, BUT ARE NOT LIMITED TO: HOMERUNS, WIRE EXPOSED TO VIEW, NEC 700.701 BRANCHES, LOCATIONS SUBJECT TO DAMAGE, TELECOM ROOMS, OR OTHERWISE DISALLOWED BY AHJ, BUILDING, OR TENANT REQUIREMENTS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.	34. ALL ROOF PENETRATIONS, FLOOR CHASING OR CORE DRILLING SHALL REQUIRE THE SPECIFIC APPROVAL OF THE LANDLORD AND OWNER. ALL WORK IN COMMON AREAS, SHAFTS OR OTHER OWNER SPACES MUST BE SPECIFICALLY REVIEWED AND APPROVED BY THE LANDLORD PRIOR TO ANY WORK BEING PERFORMED. MINIMIZE DISTURBANCE TO OTHER BUILDING TENANTS.
10. ELECTRICAL PANEL COVERS ARE NOT TO BE LEFT OFF AT ANY TIME UNLESS WORK IS BEING DONE. COVERS SHALL BE REPLACED EACH NIGHT BEFORE LEAVING JOB SITE.	35. FOR AREAS AND EQUIPMENT WITHIN THE SCOPE OF THIS REMODEL, EXISTING ELECTRICAL EQUIPMENT AND CIRCUITRY MAY BE REUSED IF IN GOOD CONDITION AND NEW DESIGN REQUIREMENTS CAN BE MET, OTHERWISE REPLACE.
11. BUILDING FIRE ALARM SYSTEM INTEGRITY SHALL BE MAINTAINED AT ALL TIMES (BEFORE, DURING, AND AFTER DEMOLITION AND/OR CONSTRUCTION).	36. FOR AREAS AND EQUIPMENT WITHIN THE SCOPE OF THIS REMODEL, REPAIR OR REPLACE ANY EXISTING DAMAGED OR RECALLED ELECTRICAL EQUIPMENT, LIGHT FIXTURES, WIRING DEVICES AND RELATED CIRCUITRY AND RESTORE ALL ELECTRICAL SYSTEMS TO PROPER WORKING ORDER. THE FINAL ELECTRICAL INSTALLATION SHALL BE FREE FROM ELECTRICAL DEFECTS TO THE SATISFACTION OF THE AHJ, OWNER, ARCHITECT AND ENGINEER.
12. WHEN USING TEMPORARY LIGHTING, THE CONTRACTOR SHALL CLEARLY LABEL PANELS AND BREAKERS USED FOR LIGHTING. LOCATION FOR TEMPORARY POWER PANELS SHALL BE SHOWN ON FLOOR PLAN POSTED AT ENTRANCE TO WORK AREA. PROPER TEMPORARY LIGHTING AND POWER MUST BE INSTALLED AND MAINTAINED IN ALL WORK AREAS. TEMPORARY LIGHT AND POWER STRINGS SHALL UTILIZE C-TAP TERMINATIONS. LAMPHOODS SHALL HAVE LEFT HANDED SCREW SHELLS, LAMP HOLDERS AND NON-METALLIC LAMP GUARDS. CONNECTIONS TO EXISTING STAIRWELL AND EXIT LIGHT SYSTEMS ARE NOT PERMITTED.	37. FOR AREAS AND EQUIPMENT WITHIN THE SCOPE OF THIS REMODEL, VERIFY CONDITION AND AGE OF EXISTING REUSED ELECTRICAL EQUIPMENT, LIGHT FIXTURES, CIRCUIT BREAKERS, FUSES, CONDUIT, SWITCHES AND RELATED WIRING. NOTIFY OWNER OF ANY ELECTRICAL EQUIPMENT, LIGHT FIXTURES AND WIRING AGED BEYOND ITS USEFUL LIFE AND REPLACE AS DIRECTED. THE MAXIMUM EXPECTED USEFUL LIFE SHALL NOT EXCEED THE FOLLOWING, (AS DATED FROM THE POINT OF MANUFACTURE), UNLESS APPROVED BY THE ENGINEER, MANUFACTURER AND OWNER: 20 YEARS FOR CIRCUIT BREAKERS, GENERATOR UPS SYSTEMS AND LIGHT FIXTURES; 30 YEARS FOR TRANSFORMERS AND PANELBOARDS; 40 YEARS FOR SWITCHBOARDS AND OTHER ELECTRICAL EQUIPMENT.
13. ALL NEW MATERIALS REQUIRED SHALL CONFORM WITH THE STANDARDS OF THE UNDERWRITERS LABORATORIES, INC. (UL) IN EVERY CASE WHERE SUCH A STANDARD HAS BEEN ESTABLISHED FOR THE PARTICULAR TYPE OF MATERIAL IN QUESTION, UNLESS OTHERWISE NOTED.	38. FOR AREAS AND EQUIPMENT WITHIN THE SCOPE OF THIS REMODEL, ELECTRICAL EQUIPMENT SHALL BE LOCATED SO THAT THE CODE REQUIRED MINIMUM WORKING CLEARANCE AND DEDICATED ELECTRICAL SPACE ARE MAINTAINED. EXISTING EQUIPMENT NOT MEETING CURRENT CODE CLEARANCE REQUIREMENTS MAY REMAIN IF ALLOWED TO REMAIN BY THE AHJ, ENGINEER AND OWNER.
14. ALL ELECTRICAL DEVICES REMOVED AND TO BE REINSTALLED SHALL BE CLEANED. ALL OTHER DEVICES THAT ARE REMOVED AND MADE SURPLUS SHALL BE REMOVED FROM THE SITE. CONTRACTOR MUST OBTAIN OWNER'S APPROVAL FOR DISPOSITION.	39. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC/SCHEMATIC IN NATURE AND REPRESENT THE GENERAL SCOPE OF WORK. IT IS NOT WITHIN THE SCOPE OF THE ELECTRICAL DRAWINGS TO SHOW ALL NECESSARY RACEWAY, ROUTING, BENDS, OFFSETS, PULL BOXES AND OBSTRUCTIONS. CONTRACTOR SHALL COORDINATE THE FINAL LOCATION OF EQUIPMENT AND WIRING DEVICES WITH OTHER TRADES PRIOR TO INSTALLATION AND INSTALL ALL WORK TO CONFORM TO THE OWNER REQUIREMENTS.
15. ELECTRICAL CONTRACTOR SHALL VISIT AND EXAMINE CAREFULLY THE EXISTING AREAS AFFECTED BY THIS WORK TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND WITH DIFFICULTIES THAT WILL ATTEND THE EXECUTION OF THE WORK. CONTRACTOR SHALL PERFORM THIS, PRIOR TO SUBMITTING PROPOSAL. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE AND LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES/ DIFFICULTIES ENCOUNTERED, WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE.	40. ALL CONDUCTOR AND CONDUIT LENGTHS SHOWN IN THESE DESIGN DOCUMENTS ARE INTENDED SOLELY FOR USE IN THE DESIGN CALCULATIONS BY THE DESIGN PROFESSIONAL, UNLESS NOTED OTHERWISE. LENGTHS SHOWN SHALL NOT BE USED TO ASSIST IN THE BIDDING TAKEOFF PROCESS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MATERIAL QUANTITIES REQUIRED TO BID AND CONSTRUCT THE COMPLETE PROJECT.
16. CONTRACTOR, BEFORE INSTALLING ANY OF THE WORK, SHALL SEE THAT IT DOES NOT INTERFERE WITH CLEARANCES REQUIRED FOR FINISHED COLUMNS, HUNG CEILINGS, PLASTER, PARTITIONS, WALLS, ETC., AS SHOWN IN THE ARCHITECTURAL DRAWINGS AND DETAILS. IF ANY WORK IS SO INSTALLED AND IT LATER DEVELOPS THAT SUCH DETAILS OR DESIGN CANNOT BE FOLLOWED, CONTRACTOR AT OWN EXPENSE SHALL MAKE SUCH CHANGES IN THE WORK AS DIRECTED BY THE ARCHITECT, AS WELL AS TO PERMIT THE INSTALLATION OF THE ARCHITECTURAL WORK AS SHOWN ON THE PLANS AND DETAILS.	41. WHEN CONCRETE TRENCHING/CORING IS REQUIRED, THE METHODS, DEPTHS, AND LOCATIONS SHALL BE PRE-APPROVED BY LANDLORD, ARCHITECT, AND STRUCTURAL ENGINEER PRIOR TO THE START OF WORK. X-RAY SLAB AS NECESSARY TO AVOID DAMAGING ANY UNDER-SLAB UTILITIES OR STRUCTURE. SLAB REPLACEMENT SHALL BE INSTALLED WITH DOWELLING AND REINFORCED CONCRETE AS DIRECTED BY THE STRUCTURAL ENGINEER. WHERE SLAB ON GRADE IS SAW-CUT AND REMOVED FOR TRENCHING THE CONTRACTOR SHALL INSTALL MOISTURE BARRIER PER LANDLORD'S REQUIREMENTS. PROVIDE 3/4" MINIMUM CONDUITS ROUTED THROUGH SLAB AND STUBBED UP INTO DEVICES. FOR SLAB ON DECK, THE FLOOR SHALL BE SLEEVED AND EQUIPPED WITH THE APPROPRIATE LISTED ASSEMBLY. PROVIDE 3/4" MINIMUM CONDUITS ROUTED BELOW SLAB, TIGHT TO STRUCTURE, AND STUBBED UP INTO DEVICES.
17. CONTRACTOR SHALL MAINTAIN CONTINUITY OF SERVICE ON ALL CIRCUITS AFFECTED BY THESE CHANGES. WHENEVER IT IS REQUIRED THAT AN EXISTING CIRCUIT BE REVISED, DISCONNECTED, OR REMOVED IT SHALL BE UNDERSTOOD THAT THE CIRCUIT SHALL BE RECONNECTED AND SERVICE RE-ESTABLISHED IN THE REMAINING PORTION OF THE CIRCUIT AFFECTED BY THIS ALTERATION.	42. COORDINATE FLOOR MOUNTED BOX, RECEPTACLE, AND COVER PLATE TYPES WITH ARCHITECT AND OWNER PRIOR TO ORDER.
18. THE CONTRACTOR SHALL CUT BACK TO THE FLOOR, WALL, OR CEILING, REMOVE WIRING AND PLUG BOTH ENDS OF CONCEALED CONDUITS MADE OBSOLETE BY THIS ALTERATION. EXPOSED CONDUITS, WIREWAYS, OUTLET BOXES, PULL BOXES, HANGERS, ETC. MADE OBSOLETE BY THE ALTERATION WORK SHALL BE REMOVED, UNLESS OTHERWISE NOTED.	43. WIRING DEVICES ADJACENT TO EACH OTHER SHALL BE INSTALLED UNDER A SINGLE COVER PLATE, UNO.
19. BEFORE THE INSTALLATION OF ANY NEW TELEPHONE DATA AND ELECTRICAL WIRING, ALL THE EXISTING WIRING NOT BEING USED SHALL BE REMOVED INCLUDING IN TRENCH DUCTS AND FLOOR CELLS WHERE APPLICABLE.	44. WIRING DEVICES SHOWN BACK-TO-BACK ON A COMMON WALL SHALL BE OFFSET A MINIMUM OF 12" HORIZONTALLY TO REDUCE SOUND TRANSMISSION BETWEEN ROOMS, UNO.
20. IN CONNECTION WITH THE ALTERATIONS TO THE EXISTING BUILDING, THERE WILL BE REMOVALS AND RELOCATIONS OF THE EXISTING ELECTRICAL WORK NECESSARY FOR THE SATISFACTORY PERFORMANCE OF THE WORK. THESE CHANGES CANNOT BE COMPLETELY DETAILED ON THE DRAWINGS, BUT SHOULD BE TAKEN INTO CONSIDERATION BY THE CONTRACTOR IN PREPARING PROPOSALS FOR THIS WORK.	45. ALL WP OUTLET BOX HOODS SHALL BE "EXTRA-DUTY" AND "WHILE-IN-USE COVER" TYPE. OUTLET BOX HOODS SHALL BE LOW PROFILE WHEREVER PRACTICABLE. UNLESS NOTED OTHERWISE, THE USE OF LARGE BUBBLE COVERS SHALL BE AVOIDED ON THE EXTERIOR OF THE BUILDING OR BEHIND EQUIPMENT IN ORDER TO PREVENT DAMAGE TO THE COVER AND TO ALLOW THE EQUIPMENT TO BE LOCATED CLOSE TO THE WALL.
21. PERFORM THE WORK AT SUCH TIME AND IN SUCH MANNER AS TO MINIMIZE INTERFERENCE WITH BUILDING'S NORMAL OPERATION. NOTIFY BUILDING MANAGEMENT REPRESENTATIVES IN 30 DAYS IN ADVANCE EACH TIME A SERVICE OUTAGE OR INTERRUPTION WILL BE REQUIRED FOR THE PERFORMANCE OF SOME PHASE OF THE WORK. SCHEDULE SUCH SERVICE OUTAGE OR INTERRUPTION ONLY AFTER HAVING RECEIVED APPROVAL OF DATE, HOUR, AND TIME THEREOF. SCHEDULE OF WORK AS DIRECTED SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE. COORDINATE THIS WORK WITH THE GENERAL CONTRACTOR, ALL CORE DRILL LOCATIONS SHALL BE VERIFIED IN FIELD WITH THE ARCHITECT AND STRUCTURAL CONSULTANT. CHOPPING OR CHASING CORE WALLS AND MASONRY OF DEMISING PARTITION WALLS IS NOT PERMITTED.	46. ALL RECEPTACLES AND APPLIANCES SHALL BE GFCI PROTECTED IN LOCATIONS REQUIRED BY CODE. THIS INCLUDES BATHROOMS, KITCHENS/FOOD PREP AREAS, EXTERIOR LOCATIONS AND RECEPTACLES WITHIN 6 FEET OF A SINK. GFCI DEVICES SHALL BE READILY ACCESSIBLE AND SHALL NOT BE LOCATED BEHIND OBSTACLES. LABEL WIRING DEVICES PROTECTED BY AN UPSTREAM GFCI DEVICE.
22. WHERE MULTIPLE DEVICES ARE TO BE INSTALLED IN A SINGLE AREA SUCH AS WALL SWITCHES FOR LIGHTS, THERMOSTATS, FAN SPEED CONTROL, SWITCHES, PROJECTION SCREEN SWITCHES, ETC., CONTRACTOR SHALL SUBMIT A SCALED DRAWING TO THE ARCHITECT FOR REVIEW SHOWING THE EXACT LOCATION AND MOUNTING HEIGHTS OF THE VARIOUS DEVICES. DEVICES SHALL BE ARRANGED IN A COORDINATED FASHION. INSTALLATIONS MADE WITHOUT SUCH APPROVAL WILL BE REWORKED AT CONTRACTOR'S EXPENSE.	47. PROVIDE TAMPER-RESISTANT (TR) TYPE RECEPTACLES AT ALL CODE REQUIRED LOCATIONS AND AT LOCATIONS WHERE RECEPTACLES ARE MOUNTED LESS THAN 5'-4" AFF AND ARE EASILY ACCESSIBLE BY CHILDREN, UNLESS NOTED OTHERWISE.
23. START OF WORK AND ALL ACCESS TO BUILDING ELECTRICAL CLOSETS MUST BE COORDINATED WITH BUILDING MANAGEMENT, PROPERTY MANAGER, AND BUILDING ENGINEER. ANY ELECTRICAL CONTRACTOR WORKING IN AN ELECTRIC CLOSET WITHOUT CONSENT WILL BE BARRED FROM WORKING IN THE BUILDING.	48. ALL EMPTY CONDUIT/RACEWAY SHALL BE INSTALLED WITH PULL STRINGS. TERMINATE CONDUIT STUB-UP WITH A NYLON BUSHING.
24. AFTER COMPLETION OF THE PROJECT, PERFORM A TEST OF THE EMERGENCY EGRESS LIGHTING SYSTEM. TEST SHALL BE PERFORMED AFTER DARK (AT LEAST 1 HOUR AFTER SUNSET). SIMULATE POWER FAILURE ON ALL LIGHTING CIRCUITS. TAKE LIGHT LEVEL READINGS ALONG PATHS OF EGRESS UTILIZING A FOOT CANDLE METER. RECORD READINGS ON A REDUCED SCALE (1/16" - 1/32") FLOOR PLAN. READINGS SHALL BE TAKEN AT THE MIDPOINT BETWEEN EMERGENCY FIXTURES AT A HEIGHT OF 18 INCHES ABOVE FLOOR. SUBMIT SEALED AND SIGNED COPY OF THE FLOOR PLAN AND READINGS TO THE ENGINEER.	49. EXPOSED CONDUIT/RACEWAY SHALL BE PAINTED TO MATCH ADJACENT SURFACE, UNLESS NOTED OTHERWISE. COORDINATE REQUIREMENTS WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.
25. ELECTRICAL CONTRACTOR SHALL PROVIDE AN ELECTRICAL INSPECTION APPROVAL CERTIFICATE TO BUILDING MANAGEMENT & TENANT UPON COMPLETION OF WORK.	50. MULTIWIRE BRANCH CIRCUITS ARE NOT ALLOWED, UNLESS NOTED OTHERWISE.
	51. PROVIDE NECESSARY BOXES AND CONDUIT FOR MECHANICAL SYSTEM CONTROL DEVICES. THIS INCLUDES BUT IS NOT LIMITED TO: MAIN CONTROL PANELS, THERMOSTATS, HUMIDISTATS, AC SOLENOIDS, HEAT RECLAIM WIRING, AHJ CONTROL WIRING, DUCT FURNACE CONTROL WIRING, TIMERS, AND SIMILAR EQUIPMENT. PROVIDE BOX (FLUSH MOUNT WHEREVER PRACTICABLE) AND 3/4" CONDUIT FOR ALL WIRING WITHIN WALLS AND SIMILAR INACCESSIBLE LOCATIONS. PROVIDE CONTROL AND INTERLOCK WIRING WHEN NOT PROVIDED BY OTHER TRADES. COORDINATE REQUIREMENTS WITH EQUIPMENT SUPPLIERS AND OTHER TRADES PRIOR TO ROUGH-IN.
	52. PROVIDE LINE VOLTAGE WIRING AND MAKE FINAL CONNECTIONS TO ALL DUCT MOUNTED SMOKE DETECTORS, FIRE/SMOKE AND SMOKE DAMPERS WHERE APPLICABLE. COORDINATE REQUIREMENTS WITH OTHER TRADES PRIOR TO INSTALLATION.
	53. DEVICES MOUNTED ON ACOUSTICAL TILE CEILINGS SHALL BE CENTERED ON THE TILE, UNO.
	54. PROVIDE BOXES AND CONDUITS FOR THE FIRE PROTECTION SYSTEM LOW VOLTAGE WIRING AS REQUIRED. THIS INCLUDES EXPOSED WIRING LESS THAN 96" AFF. AT A MINIMUM, PROVIDE 3/4" CONDUIT, UNLESS NOTED OTHERWISE. COORDINATE REQUIREMENTS AND LOCATIONS WITH SYSTEM INSTALLER AND FIRE ALARM SPECIFICATIONS.

ELECTRICAL ABBREVIATIONS	
ABBREVIATION	DESCRIPTION
A	AMPERE
AFF	ABOVE FINISHED FLOOR
CAT	CATALOG
C	CONDUIT
CB	CIRCUIT BREAKER
CLG	CEILING
CL	CLOSET
CKT	CIRCUIT
CP	CONDENSATE PUMP
CU	COPPER
DC	DOOR CONTACT
DISC	DISCONNECT
(DM), (D)	DEMOLISH
DN	DOWN
DWG	DRAWING
(E), EXISTING, EX, ETR	EXISTING TO REMAIN
(ER)	EXISTING TO BE RELOCATED
EC	ELECTRICAL CONTRACTOR
ELEC	ELECTRICAL
EQUIP	EQUIPMENT
FCU	FAN COIL UNIT
FDS	FUSED DISCONNECT SWITCH
FIXT	FIXTURE
FL	FLOOR
FLEX	FLEXIBLE
GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GP	GENERAL PURPOSE
HC	HUNG CEILING
HP	HORSEPOWER
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HZ	HERTZ
JB	JUNCTION BOX
KVA	KILOVOLT AMPERE
KW	KILOWATT
LTG	LIGHTING
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MCS	MOLDED CASE SWITCH (NON-AUTO MCB)
MECH	MECHANICAL
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MTD	MOUNTED
(N)	NEW
N	NEUTRAL
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPENED
NTS	NOT TO SCALE
P	POLE
PB	PULL BOX
Φ	PHASE
PC	PERSONAL COMPUTER
PNL	PANEL
PWR	POWER
(RM)	REMOVE
RECEPT	RECEPTACLE
(RE)	RELOCATE
SP	SINGLE POLE
SPEC	SPECIFICATIONS
SPKR	SPEAKER
SW	SWITCH
SYS	SYSTEM
TEL	TELEPHONE
XFMR	TRANSFORMER
TYF	TYPICAL
UC	UNDER COUNTER
UNO	UNLESS OTHERWISE NOTED
V	VOLT OR VOLTAGE
VIF	VERIFY IN FIELD
W	WATT

FURNITURE SYMBOLS LIST	
SYMBOL	DESCRIPTION
(P) (V)	FLOOR BOX IN-FEED FOR POWER AND DATA ELECTRIFIED FURNITURE. PROVIDE DIVIDER ACCESSORIES TO SEPARATE POWER AND DATA. <ul style="list-style-type: none">• PROVIDE 3/4" FOR POWER• PROVIDE (2) 1-1/4" FOR DATA

ELECTRICAL SYMBOLS LIST	
SYMBOL	DESCRIPTION
	WALL RECESSED DUPLEX RECEPTACLE 20A, 125V (NEMA 5-20R) RECEPTACLE LETTER DESIGNATIONS AS FOLLOWS, TYP ALL RECEPTACLE TYPES: [FF] = AT HEIGHT, CONFORM WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH IN [AF] = ABOVE FINISHED COUNTER, CONFORM WITH ARCH DRAWINGS PRIOR TO ROUGH IN [CK] = CLOCK TYPE (RECESSED) [CR] = CONTROLLED RECEPTACLE [GF] = GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE [IG] = ISOLATED GROUND [TR] = TAMPER RESISTANT [USB] = USB/DUPLEX [WP] = WEATHER PROOF COVER [WVR] = WEATHER RESISTANT BOX P44 - DENOTES PANEL "P" DESIGNATION AND CIRCUIT NUMBER DESIGN INTENT SHOWN IS FOR CONNECTION TO ELECTRICAL UTILITY AND FOR DEVICE, EQUIPMENT, AND DISCONNECT TERMINATION POINTS. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING HEIGHTS, ORIENTATION, GROUPING, CONFIGURATION, RELATIONSHIP TO OTHER DEVICES, INSTALLATION INFORMATION, FINAL CONNECTION INFORMATION, AND ANY ADDITIONAL INFRASTRUCTURE NEEDED FOR A COMPLETE AND OPERATIONAL INSTALLATION. INSTALLATION WILL NOT BE COMPLETE WITHOUT COMPLYING WITH ARCHITECTURAL REQUIREMENTS.
	SPECIAL PURPOSE RECEPTACLE. PROVIDE NEMA CODE CONFIGURATION SHOWN (L6-20R, 6-30R, L21-50R, etc.) IF NO NEMA CODE IS SHOWN, PROVIDE SIMPLEX RECEPTACLE NEMA 5-20R P44 - DENOTES PANEL "P" DESIGNATION AND CIRCUIT NUMBER
	(QUAD RECEPTACLE) SAME AS DUPLEX EXCEPT DOUBLE DUPLEX ON 2 GANG PLATE AND BACK BOX
	SAME AS DUPLEX RECEPTACLE EXCEPT WITH DEDICATED CIRCUIT
	WHERE NOT ALREADY COVERED BY OTHER DRAWINGS, PROVIDE WALL MOUNTED DATA OUTLET CONSISTING OF DOUBLE GANG EXTRA DEEP BOX W/ SINGLE GANG RING AND COVER PLATE, W/ 1" CONDUIT AND PULLSTRING, STUB CONDUIT TO 18" CF IN OPEN CEILING SPACES, TO PLENUM SPACES W/ ACCESSIBLE CEILING, AND TO ADJACENT ROOM ACCESSIBLE CEILING IN HARD IDL CEILINGS.
	HOME RUN TO DESIGNATED PANELBOARD AND CIRCUIT P44 - DENOTES PANELBOARD DESIGNATION AND CIRCUIT NUMBER
	CEILING MOUNTED JUNCTION BOX
	WALL MOUNTED JUNCTION BOX. PROVIDE BACKBOX AND 3/4" CONDUIT STUB-UP WITH PULLSTRING TO ABOVE ACCESSIBLE CEILING UNLESS NOTED OTHERWISE
	THERMOSTAT. PROVIDE BACKBOX AND 3/4" CONDUIT STUB-UP WITH PULLSTRING TO ABOVE ACCESSIBLE CEILING. REFER TO MECHANICAL DRAWINGS FOR STATUS (NEW/EXISTING), EXACT LOCATIONS, AND QUANTITIES.
	WALL MOUNTED AV OUTLET, WHERE ACCESSIBLE CEILING IS NOT AVAILABLE, EXTEND 1" CONDUIT FROM OPEN CEILING TO NEAREST CABLE TRAY. REFER TO A.V. DRAWINGS FOR DETAILS AND CONDUIT REQUIREMENTS.
	MOTORIZED DAMPER
	SOLENOID VALVE
	LEAK DETECTOR (STANDALONE)
	LEAK DETECTOR CONTROL PANEL
	CONDENSATE PUMP
	VARIABLE AIR VOLUME BOX
	TOGGLE SWITCH UP TO 20A, 120V/1P AND 277V/1P. NO OVERLOAD FUSIBLE LINK, ON/OFF FUNCTIONALITY ONLY
	THERMAL OVERLOAD FRACTIONAL HORSEPOWER TOGGLE SWITCH 15A, LESS THAN 3/4HP. MANUAL MOTOR CONTROLLER WITH INTERNAL FUSIBLE LINK, 120V/1P, 208V/1P, AND 277V/1P. CONTRACTOR SHALL SIZE FUSIBLE LINK TO MATCH SPECIFIC EQUIPMENT.
	MOTOR STARTING TOGGLE SWITCH 30A, 2P OR 3P TO MATCH LOAD. GREATER THAN 1HP / UP TO 30A
	HANDLE MOTOR DISCONNECT TOGGLE SWITCH 60A 3P, GREATER THAN 30A UP TO 60A, COMPACT NEMA 4X ENCLOSURE STANDARD
	ELECTRICAL PANEL - PLAN VIEW
	ELECTRICAL PANEL - RISER VIEW
	TRANSFORMER: PLAN VIEW
	TRANSFORMER: RISER VIEW
	ELECTRICAL DISCONNECT SWITCH OR ENCLOSED CIRCUIT BREAKER: PLAN VIEW "2003/150/3R" DENOTES AMPERE/POLE/FUSE/NEMA ENCLOSURE RATING, NF = NON-FUSED, CB = CIRCUIT BREAKER (2003/CB), NO VALUE (2003/150) FOR NEMA MEANS NEMA 1
	DISCONNECT SWITCH: RISER VIEW A - # OF POLES - FUSE TRIP SIZE (OR NF - NON-FUSED) C - SWITCH OR FRAME SIZE 3R - NEMA CONFIGURATION (OR 1 IF BLANK)
	ENCLOSED CIRCUIT BREAKER: RISER VIEW #A - TRIP SIZE - # OF POLES #KALC - AIC RATING OF BREAKER 3R - NEMA CONFIGURATION (OR 1 IF BLANK)
	UTILITY METER OR LANDLORD SUBMETER: RISER VIEW CONFIRM TYPE PRIOR TO BID
	SURGE PROTECTION DEVICE (SPSD) - RISER VIEW INTERNALLY MOUNTED FOR NEW PNLBDS, EXTERNAL FOR EXISTING
	TRANSFER SWITCH (AUTOMATIC OR MANUAL)
	ELECTRICAL PLAN KEYNOTE
	LIGHTING CONTROLS KEYNOTE: REFER TO LIGHTING DETAILS
	CIRCUIT IDENTIFIER: ALL DEVICES WITHIN ROOM SHALL BE CONNECTED TO INDICATED CIRCUIT UNLESS NOTED OTHERWISE. NUMBERS TO THE RIGHT OF "P" INDICATE CIRCUIT NUMBER ON PNL BD.

SECURITY SCOPE OF WORK	
1. REFER TO ARCHITECTURAL AND SECURITY CONSULTANT DRAWINGS FOR ADDITIONAL SCOPE. (BY THIS ELECTRICAL CONTRACTOR) AND EXACT LOCATIONS OF SECURITY DEVICES AND MISCELLANEOUS SYSTEM DEVICES.	
2. FOR EACH SECURITY AND MISCELLANEOUS SYSTEM DEVICE: A. PROVIDE UTILITY JUNCTION BOX AND 3/4" EMPTY CONDUIT STUB-UP HOMERUN WITH BUSHED END AND DRAG LINE. B. HOMERUN SHALL BE TERMINATED IN A JUNCTION BOX 12" ABOVE HUNG CEILING. RUN CONDUIT WITH DRAG LINE TOWARD SYSTEM PANEL IN IDF ROOM. C. VERIFY CONDUIT SIZES WITH SECURITY VENDOR PRIOR TO INSTALLATION.	
3. SEE SECURITY CONSULTANT'S DRAWINGS FOR SECURITY EQUIPMENT SYMBOL LISTS AND NOTES. BELOW IS SHOWN FOR REFERENCE ONLY. ELECTRICAL CONTRACTOR SHALL PROVIDE BACKBOXES AND 3/4" EMT CONDUIT STUB-UPS FOR ALL SECURITY DEVICES. ELECTRICAL CONTRACTOR TO COORDINATE WITH FIRE ALARM VENDOR TO Tie IN DOOR SECURITY SYSTEM WITH EXISTING FIRE ALARM SYSTEM TO RELEASE DOORS IN AN ALARM CONDITION. SEE SECURITY DRAWINGS FOR DETAILS.	
	CARD READER
	MAGNETIC LOCK
	DOOR RELEASE
	ELECTRIC STRIKE
	DOOR CONTACT
	MOTION SENSOR
	ELECTRIC LOCK
	PANIC BUTTON
	ELECTRIC HINGE
	EGRESS BUTTON

TELECOMMUNICATION SCOPE OF WORK	
1. REFER TO ARCHITECTURAL AND TELECOMMUNICATION CONSULTANT DRAWINGS FOR ADDITIONAL SCOPE. (BY THIS ELECTRICAL CONTRACTOR) AND EXACT LOCATIONS OF TELECOM DEVICES, OUTLETS, JUNCTION BOXES, WIRE TROUGHS, ETC. FURNISH AND INSTALL EMPTY CONDUITS AND BACKBOXES PER TELECOM DRAWINGS. MINIMUM CONDUIT SIZE SHALL BE 1-1/4". FINAL QUANTITIES AND SIZES OF EMPTY CONDUITS SHALL BE BASED ON TELECOM DRAWINGS.	
2. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL: A. ALL ROUGHING (CONDUITS, JUNCTION BOXES, PULL BOXES, BACK BOXES, AND WIRE TROUGHS). B. PROVIDE DRAG LINE IN ALL EMPTY CONDUITS - MINIMUM 1-1/4".	

ELECTRICAL DRAWING INDEX		ISSUE FOR BID
DRAWING NUMBER	DRAWING TITLE	
DM-300.00	ELECTRICAL DEMOLITION FLOOR PLAN 38TH FLOOR	•
DM-301.00	ELECTRICAL DEMOLITION CEILING PLAN 38TH FLOOR	•
E-001.00	ELECTRICAL COVER SHEET	•
E-100.00	ELECTRICAL PANELBOARD SCHEDULES	•
E-200.00	ELECTRICAL DETAILS	•
E-210.00	LIGHTING CONTROL DETAILS	•
E-438.00	ELECTRICAL LIGHTING PLAN 38TH FLOOR	•
E-538.00	ELECTRICAL POWER PLAN 38TH FLOOR	•
NOTE: REFER TO ARCHITECTURAL SHEETS FOR MORE ISSUANCE INFORMATION		

LIGHTING FIXTURE SCHEDULE							
TYPE	DESCRIPTION	LAMPS	VOLT	WATTS	UNITS	DIMMING TYPE	EMERGENCY
LA	RECESSED LINEAR LED	LED	277	5.0	LF	0-10V	
LB	SURFACE MOUNTED LINEAR LED	LED	277	4.4	LF	0-10V	
LC	RECESSED LINEAR LED	LED	277	5.0	LF	0-10V	
LD	RECESSED DOWNLIGHT	LED	277	14.0	EA	0-10V	
LE	RECESSED LINEAR LED	LED	277	6.0	LF	0-10V	
NOTES: 1. REFER TO LIGHTING PLANS FOR LIGHTING GENERAL NOTES. 2. LIGHTING FIXTURE SCHEDULE IS FOR REFERENCE ONLY. REFER TO LIGHTING DESIGNER SPECIFICATION FOR EXACT REQUIREMENTS.							

PROJECT NOTES:

- TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 NEW YORK CITY ENERGY CONSERVATION CODE
 - BOOK SPECIFICATION IS PART OF THIS CONTRACT
 - THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THIS EXPANSION/SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELEID UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.
- | Date | Description |
|-----------|--------------------------------------|
| 1 4/4/23 | ISSUED FOR 90% PROGRESS |
| 2 4/13/23 | ISSUE FOR BID, PERMIT & CONSTRUCTION |

Seal / Signature

Project Name
38TH FLOOR

Project Number
1462005

Description

ELECTRICAL COVER SHEET

Scale
12" = 1'-0"

E-001.00

DOB NOW:
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</

PANELBOARD: UP-38B1

ETR

REFER TO ONE LINE

VOLTAGE

208Y/120V

PHASE

3 Ø

WIRE

4 W

NEUTRAL

100%

MOUNTING

SURFACE

MAIN DEVICE TRIP

MLO

BUSSING

100 A

SHORT CKT RATING

FULLY RATED

BREAKER AIC

10,000

NON-TRIP MAIN DEVICE

SHUNT TRIP MAIN DEVICE

ISOLATED GROUND BUS

EQUIPMENT GROUND BUS

FED FROM

NEMA ENCLOSURE

N-G BOND (SE RATED)

FEED-THROUGH LUGS

OF SECTIONS

1

LOAD TYPE

A

B

C

A

B

C

LOAD TYPE

P

TRIP AMP

CKT OCP NOTES

LOAD TYPE

P

TRIP AMP

CKT OCP NOTES

LOAD DESCRIPTION

1

EXISTING LOAD

E

20

1

3

EXISTING LOAD

E

20

1

5

EXISTING LOAD

E

20

1

7

EXISTING LOAD

E

20

2

9

E

11

SPARE

E

15

1

13

EXISTING LOAD

E

15

1

15

SPARE

E

15

1

17

SPACE

E

19

SPACE

E

21

SPARE

E

20

1

23

SPARE

E

20

1

25

SPARE

E

20

1

27

SPACE

E

29

SPARE

E

15

1

31

SPARE

E

20

1

33

SPARE

E

20

1

35

SPARE

E

20

1

37

SPARE

E

15

1

39

SPARE

E

15

1

41

SPARE

E

15

1

LOAD

CONN. KVA

DF%

LOAD

CONN. KVA

DF%

COOLING [C]

100%

HEATING [H]

0%

MOTORS [M]

100%

SUPP HEAT [U]

100%

SUPP COOL [F]

100%

INSTAHOT [W]

100%

LIGHTING [L]

125%

SPECIALTY [Z]

100%

EXISTING [E]

100%

GEN RCPT [R]

100/50%

KITCHEN [K]

100%

EQUIP/APL [A]

100%

TELECOM [T]

100%

CONT EQP [S]

125%

LOAD

DEM. KVA

DF%

LARGE MOTOR

+25%

SHOW WIND

NEC220

TRACK LTG

NEC220

PHASE A (kVA)

CONNECTED AMPS

PHASE B - kVA

CONNECTED AMPS

PHASE C - kVA

CONNECTED AMPS

TOTAL CONNECTED

0.00 kVA

TOTAL NEC DEMAND

0.00 kVA

0 A

REMARKS:

PANELBOARD: UP-38B2

ETR

REFER TO ONE LINE

VOLTAGE

208Y/120V

PHASE

3 Ø

WIRE

4 W

NEUTRAL

100%

MOUNTING

SURFACE

MAIN DEVICE TRIP

MLO

BUSSING

100 A

SHORT CKT RATING

FULLY RATED

BREAKER AIC

10,000

NON-TRIP MAIN DEVICE

SHUNT TRIP MAIN DEVICE

ISOLATED GROUND BUS

EQUIPMENT GROUND BUS

FED FROM

NEMA ENCLOSURE

N-G BOND (SE RATED)

FEED-THROUGH LUGS

OF SECTIONS

1

LOAD TYPE

A

B

C

A

B

C

LOAD TYPE

P

TRIP AMP

CKT OCP NOTES

LOAD TYPE

P

TRIP AMP

CKT OCP NOTES

LOAD DESCRIPTION

2

1

OFFICES 38J21,38K21

RB

20

1

4

3

OFFICES 38K19,38K18

RB

20

1

6

5

OFFICES 38I19,38I18

RB

20

1

8

7

SPACE

E

10

9

SPACE

E

12

11

SPARE

E

20

1

14

13

SPARE

E

20

1

16

15

SPARE

E

30

2

18

17

E

20

19

SPARE

E

15

1

22

21

SPARE

E

15

1

24

23

SPARE

E

15

1

26

25

SPARE

E

15

1

28

27

SPARE

E

20

1

30

29

SPARE

E

20

1

32

31

EXISTING LOAD

E

15

1

34

33

EXISTING LOAD

E

15

1

36

35

SPARE

E

20

1

38

37

EXISTING LOAD

E

15

1

40

39

EXISTING LOAD

E

15

1

42

41

SPACE

E

LOAD

CONN. KVA

DF%

LOAD

CONN. KVA

DF%

COOLING [C]

100%

HEATING [H]

0%

MOTORS [M]

100%

SUPP HEAT [U]

100%

SUPP COOL [F]

100%

INSTAHOT [W]

100%

LIGHTING [L]

125%

SPECIALTY [Z]

100%

EXISTING [E]

100%

GEN RCPT [R]

100/50%

KITCHEN [K]

100%

EQUIP/APL [A]

100%

TELECOM [T]

100%

CONT EQP [S]

125%

LOAD

DEM. KVA

DF%

LARGE MOTOR

+25%

SHOW WIND

NEC220

TRACK LTG

NEC220

PHASE A (kVA)

CONNECTED AMPS

PHASE B - kVA

CONNECTED AMPS

PHASE C - kVA

CONNECTED AMPS

TOTAL CONNECTED

0.00 kVA

TOTAL NEC DEMAND

0.00 kVA

0 A

REMARKS:

PANELBOARD: UP-38B2										ETR		REFER TO ONE LINE			
VOLTAGE		208Y/120V		MAIN DEVICE TRIP		MLO		NON-TRIP MAIN DEVICE				NEMA ENCLOSURE		1	
PHASE		3 Ø		BUSSING		100 A		SHUNT TRIP MAIN DEVICE				N-G BOND (SE RATED)			
WIRE		4 W		SHORT CKT RATING		FULLY RATED		ISOLATED GROUND BUS				FEED-THROUGH LUGS		X	
NEUTRAL		100%		BREAKER AIC		10,000		EQUIPMENT GROUND BUS		X		# OF SECTIONS		1	
MOUNTING		SURFACE													

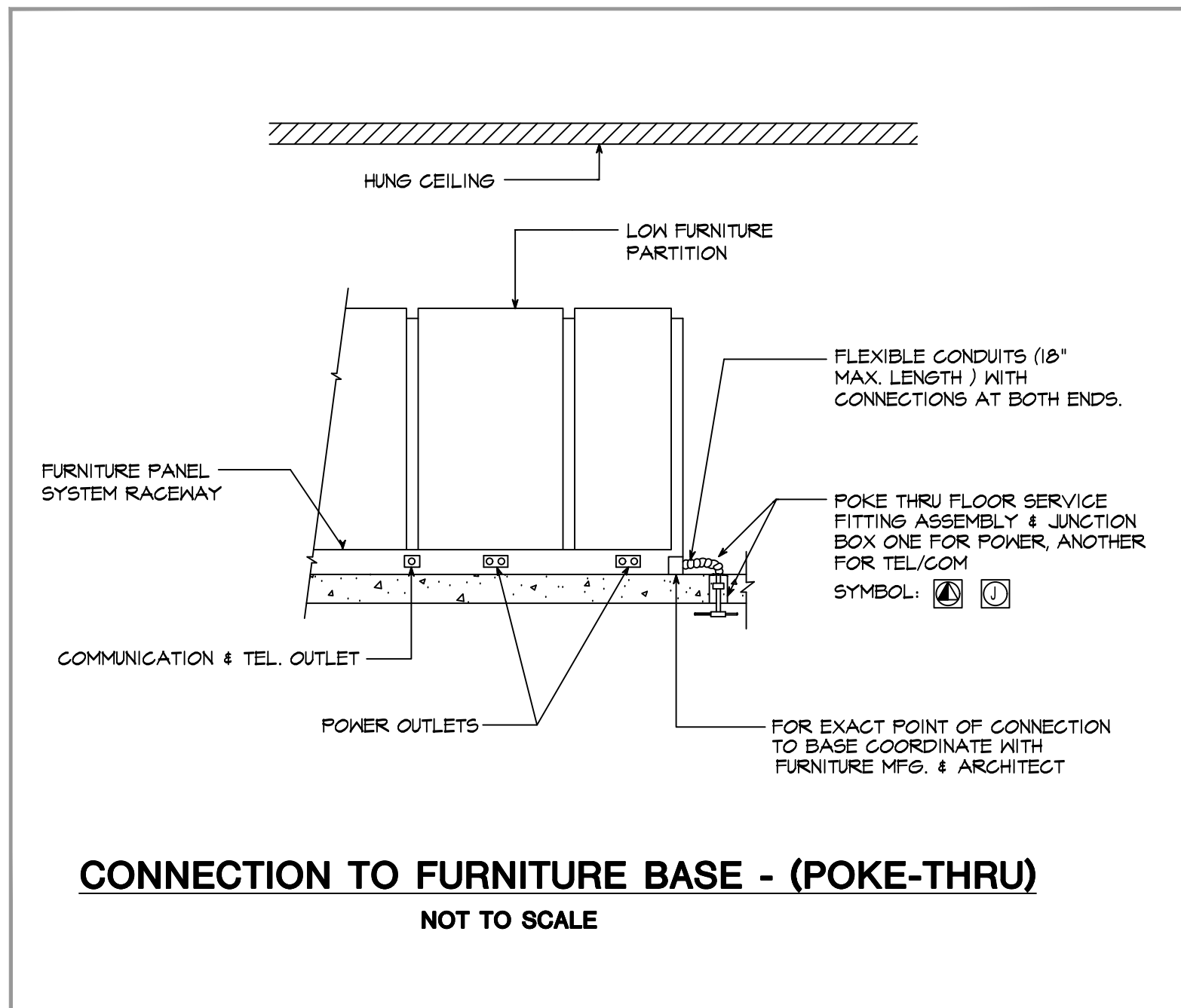
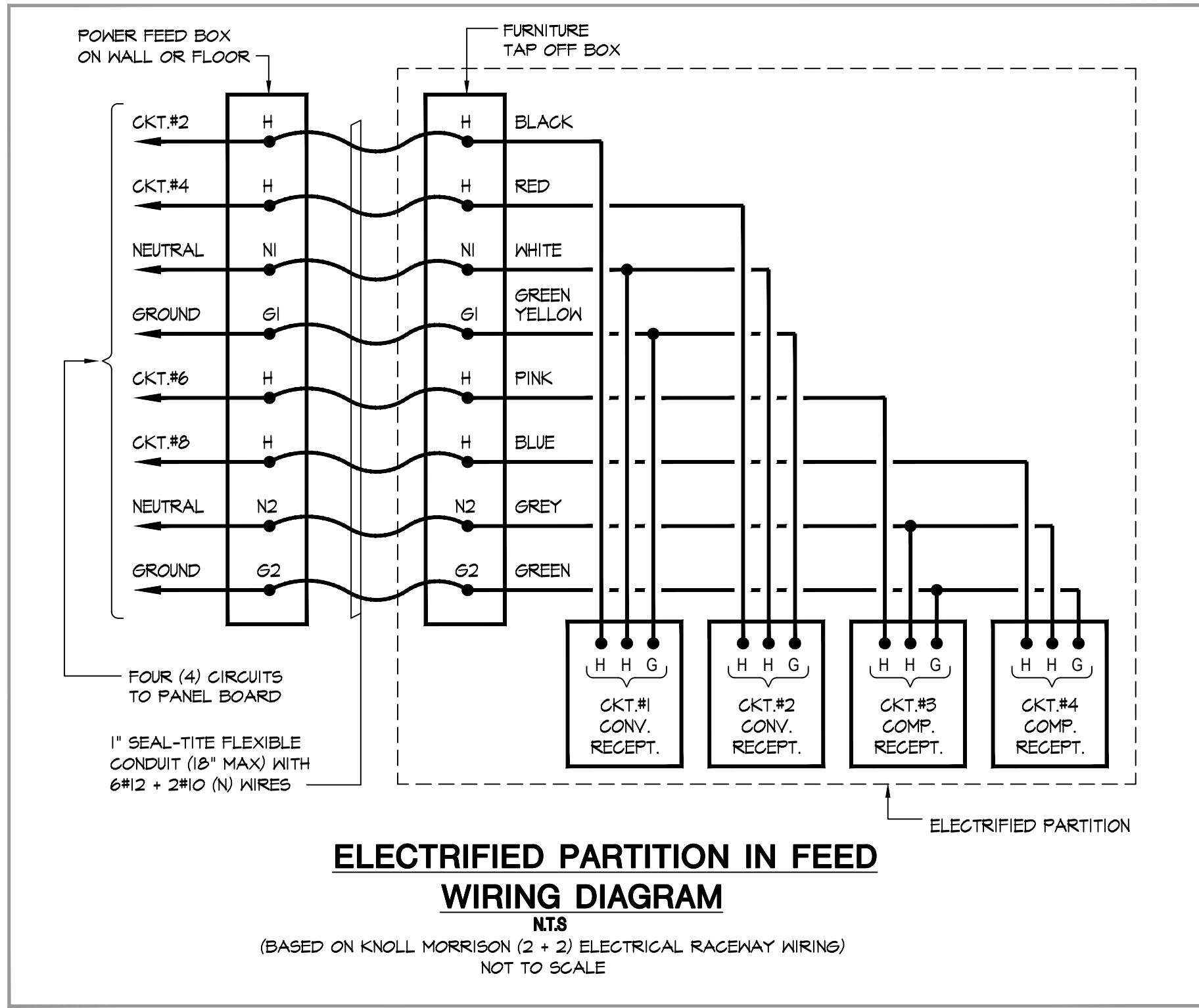
LOAD DESCRIPTION										CKT	LOAD DESCRIPTION										CKT #																								
OCT NOTES										TRIP AMP	P	LOAD TYPE	CONNECTED (kVA)					LOAD TYPE	P	TRIP AMP	OCT NOTES																								
A	B	C	A	B	C											P	TRIP AMP	OCT NOTES																											
OFFICES 38J21,38K21																							RB	20	1											1	15	E	SPARE						2
OFFICES 38K19,38K18																							RB	20	1											1	15	E	SPARE						4
OFFICES 38I19,38I18																							RB	20	1											1	20	RB	OFFICES 38G15,38F15						6
SPACE																							E	1											1	20	RB	OFFICES 38A20,38A19						8	
SPACE																							E	1											1	20	RB	COPIER						10	
SPARE																							E	20	1											1	30	N	PDU						12
SPARE																							E	20	1											1	30	N	PDU						14
SPARE																							E	30	2											1	20	E	SPARE						16
																																				1	20	E	SPARE						18
SPARE																							E	15	1											1	20	E	SPARE						20
SPARE																							E	15	1											1	20	E	SPARE						22
SPARE																							E	15	1											1	20	E	SPARE						24
SPARE																							E	15	1											1	20	E	SPARE						26
SPARE																							E	20	1											1	20	E	SPARE						28
SPARE																							E	20	1											1	20	E	SPARE						30
EXISTING LOAD																							E	15	1											1	20	E	SPARE						32
EXISTING LOAD																							E	15	1											1	20	E	SPARE						34
SPARE																							E	20	1											1	20	E	SPARE						36
EXISTING LOAD																							E	15	1											1	20	E	SPARE						38
EXISTING LOAD																							E	15	1											1	20	E	SPARE						40
SPACE																							E		1											1	20	E	SPARE						42

D		CONN. KVA	DF%	LOAD	CONN. KVA	DF%
LING	[C]		100%	GEN RCPT	[R]	100/50%
TING	[H]		0%	KITCHEN	[K]	100%
ORS	[M]		100%	EQUIP/APL	[A]	100%
HEAT	[U]		100%	TELECOM	[T]	100%
COOL	[F]		100%	CONT EQP	[S]	125%
AHROT	[W]		100%	LOAD	DEM. KVA	DF%
TING	[L]		125%	LARGE MOTOR		+25%
DIALTY	[Z]		100%	SHOW WIND	NEC220	
TING	[E]		100%	TRACK LTG	NEC220	

PHASE A (kVA)	
CONNECTED AMPS	
PHASE B - kVA	
CONNECTED AMPS	
PHASE C - kVA	
CONNECTED AMPS	

TOTAL CONNECTED	
0.00 kVA	
0 A	
TOTAL NEC DEMAND	
0.00 kVA	
0 A	

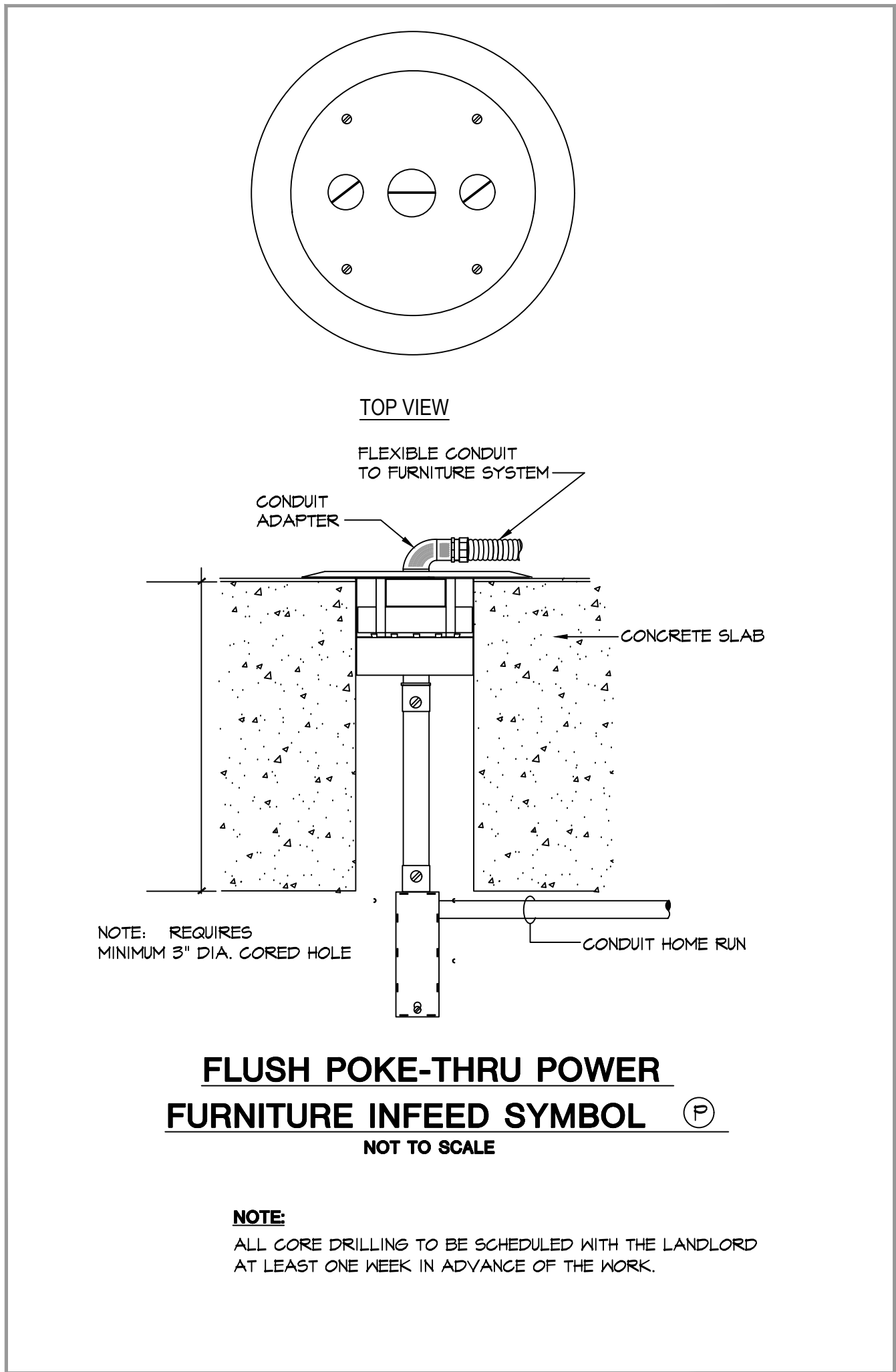
MARKS:



FURNITURE SYSTEMS NOTES:

1. PROVIDE TELEPHONE 1 1/2" EMPTY CONDUIT STUB-UP IN WALL OR COLUMN INTO HUNG CEILING. TERMINATE WITH AN INSULATING BUSHING FOR TELEPHONE. PROVIDE POWER STUB-UP AND PULL WIRES AS REQUIRED.
2. FOR EXACT LAYOUT OF TELEPHONE AND POWER OUTLETS REFER TO ARCHITECTURAL DRAWINGS.
3. ALL ELECTRIFIED PARTITIONS, HARNESSSES AND RECEPTACLES FOR FURNITURE SYSTEM WILL BE SUPPLIED BY OWNER.
4. ELECTRICAL CONTRACTOR SHALL INSTALL PRE-WIRED HARNESSSES AND SNAP-IN RECEPTACLES AND MAKE ALL CONNECTIONS TO FURNITURE SYSTEM FOR INCOMING POWER AND COMMUNICATION CABLES.
5. ELECTRICAL CONTRACTOR SHALL CHECK AND TEST ALL INTERNAL ELECTRICAL CONNECTIONS IN PARTITIONS PRIOR TO FINAL INSTALLATION OF PARTITIONS.
6. ALL JUNCTION BOXES FOR MOVABLE FURNITURE PARTITION SYSTEM SHALL BE MOUNTED FLUSH WITH WALL COLUMN AS INDICATED. PROVIDE FLEXIBLE CONDUIT CONNECTION FROM JUNCTION BOXES TO FURNITURE SYSTEM (18" MAX LENGTH), INCLUDING 90° MALE TO FEMALE METAL ELBOW CONNECTOR WHICH MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE FURNITURE SYSTEM.
7. ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATION OF INFEEED JUNCTION BOXES WITH MOVABLE FURNITURE SYSTEM. FOR EXACT LOCATION OF MOVABLE FURNITURE PARTITIONS REFER TO ARCHITECTS DRAWINGS.
8. ELECTRICAL CONTRACTOR SHALL RECEIVE, SET AND INSTALL ALL ELECTRIFIED FURNITURE SYSTEM PARTITIONS INCLUDING ALL COMPONENTS WHICH SHALL BE FURNISHED TO THE PROJECT BY THE FURNITURE SYSTEM MANUFACTURER, INCLUDING TASK LIGHTING.
9. INCLUDE ALL OF THE ABOVE IN BID PRICE.

BUILDING PANEL CIRCUIT NO.	WIRE	FURNITURE SYSTEM CIRCUIT TAG	LOAD
2	BLACK	X	CONV.
4	RED	Y	CONV.
6	PINK	A	PC
8	BLUE	B	PC
NEUTRAL 1 FOR CKTS 2,4	WHITE	N1	
GROUND 1 FOR CKTS 2,4	GREEN/YELLOW	G1	
NEUTRAL 2 FOR CKTS 6,8	GREY	N2	
GROUND 2 FOR CKTS 6,8	GREEN	G2	



- PROJECT NOTES:
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 2. BOOK SPECIFICATION IS PART OF THIS CONTRACT
 3. "THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES."

Date	Description
1 4/13/23	ISSUED FOR BID, PERMIT, CONSTRUCTION

Seal / Signature

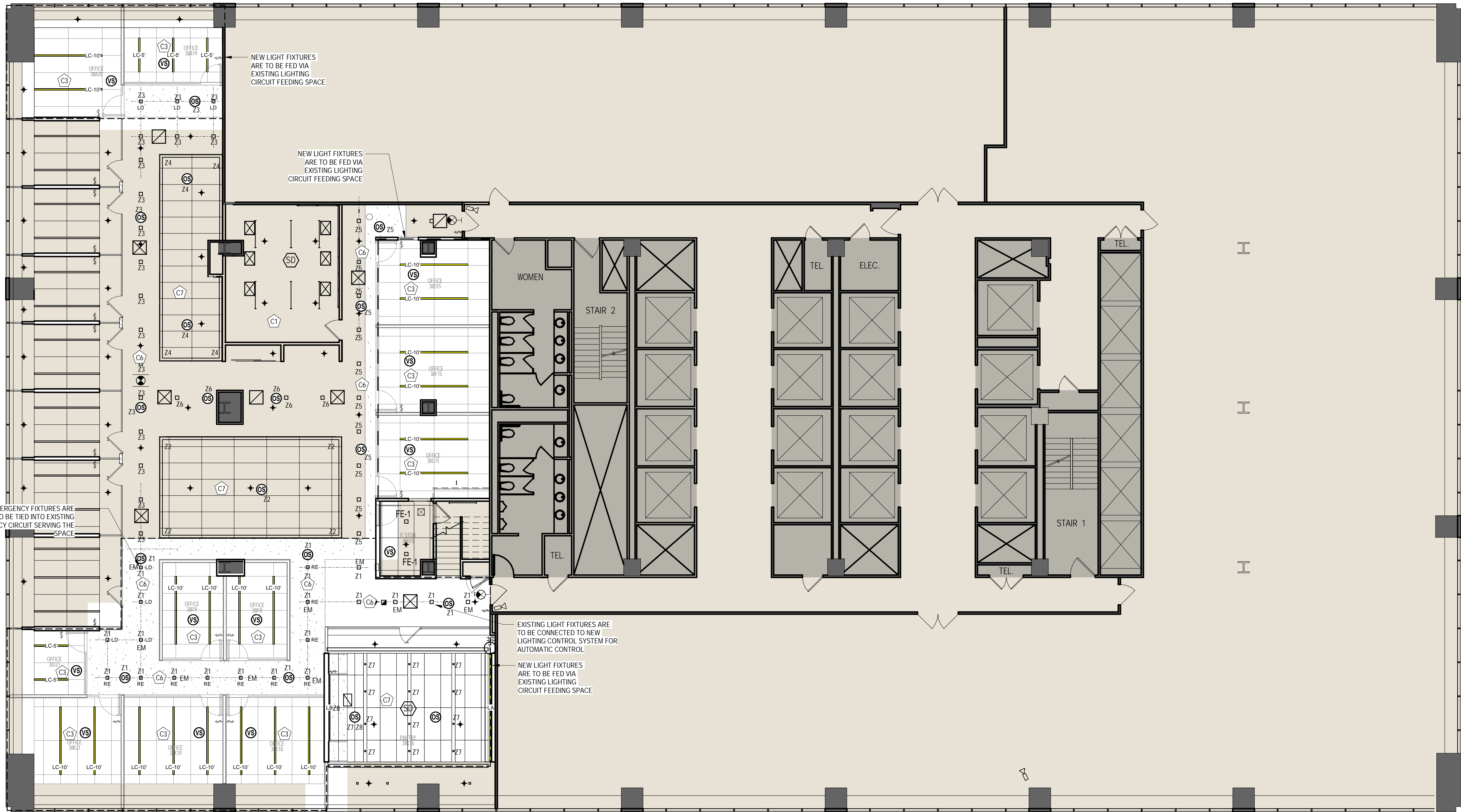
Project Name
38TH FLOOR

Project Number
1462005

Description
ELECTRICAL DETAILS

Scale
As indicated

E-200.00



ELECTRICAL LIGHTING - GENERAL NOTES

- FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL LIGHTING FIXTURES, SWITCHES, CEILING AND WALL MOUNTED OCCUPANCY SENSORS AND JUNCTION BOXES, SEE ARCHITECTURAL DRAWINGS.
- THE LOCATION AND SELECTION OF THE LIGHT FIXTURES WERE MADE BY OTHERS, UNLESS NOTED OTHERWISE. SCOPE OF SERVICES IS LIMITED TO PROVIDING LIGHTING POWER CIRCUIT AND CONTROL DESIGN. LIGHTING FIXTURE SCHEDULE IS FOR REFERENCE ONLY. REFER TO LIGHTING DESIGNER SPECIFICATION FOR EXACT REQUIREMENTS. ALL LIGHT FIXTURES AND RELATED COMPONENTS SHALL BE PROVIDED BY THE CONTRACTOR, UNLESS NOTED OTHERWISE.
- THE CLIENT'S LIGHTING DESIGNER HAS THE RESPONSIBILITY FOR DETERMINING IF THE LIGHTING DESIGN MEETS CODE REQUIRED EGRESS AND EMERGENCY EGRESS LIGHTING LEVELS, AND OTHER LOCAL CODES AND ORDINANCES INCLUDING IES STANDARDS AND THE OWNER REQUIREMENTS.
- THE NORMAL AND EMERGENCY EGRESS LIGHTING DESIGN WHICH IS OUTSIDE THE SCOPE OF WORK OF THIS PROJECT IS THE RESPONSIBILITY OF THE LANDLORD.
- CIRCUITS ARE DESIGNATED BY THE NUMBER SHOWN ADJACENT TO EACH LIGHTING FIXTURE OR JUNCTION BOX. WIRING IS SHOWN ONLY UNDER SPECIAL CIRCUMSTANCES. PROVIDE ALL CONDUITS, WIRING AND BOXES AS WELL AS CEILING OUTLETS AND WHIPS REQUIRED TO ENERGIZE LIGHTING FIXTURES AS SHOWN. UTILIZE #10 THIN WHEN FEEDER FROM THE LAST CONNECTED FIXTURE RUN LONGER THAN 80' TO PANEL.
- ALL BRANCH CIRCUIT WIRING IN CONDUITS SHALL BE RUN CONCEALED IN WALLS AND ABOVE HUNG CEILING.
- COORDINATE LIGHTING FIXTURE TYPES, SPECIFICATIONS AND ADDITIONAL LIGHTING NOTES AND SCOPE WITH ARCHITECT AND LIGHTING CONSULTANT. REFER TO LIGHTING FIXTURE SCHEDULE ON ARCHITECTURAL AND LIGHTING CONSULTANT DRAWINGS AND SPECIFICATIONS.
- SUSPEND BACK OF HOUSE AREA LIGHT FIXTURES WITH OPEN CEILINGS AS HIGH AS PRACTICABLE, UNLESS NOTED OTHERWISE. SUSPEND JUST BELOW PIPING, DUCTWORK, AND SIMILAR OBSTRUCTIONS WHERE NECESSARY TO AVOID SHADOWS. COORDINATE REQUIREMENTS WITH OWNER AND OTHER DISCIPLINES PRIOR TO INSTALLATION.
- ALL CEILING SENSORS IN OPEN/EXPOSED CEILING AREA SHALL BE PENDANT MOUNTED AT THE SAME LEVEL AS SUSPENDED LIGHT FIXTURES OR ADJACENT DUCTWORK (WHICHEVER IS LOWER) TO AVOID OBSTRUCTIONS OF COVERAGE. PRIOR TO INSTALLATION COORDINATE EXACT MOUNTING HEIGHTS, DETAILING, AND PLACE WITH ARCHITECT AND ENGINEER.
- WHERE LIGHT FIXTURES ARE NOT PROVIDED WITH A CIRCUIT, THOSE FIXTURES SHALL BE FED VIA THE SAME CIRCUIT FEEDING OTHER FIXTURES IN THE SAME ZONE.
- ELECTRICAL CONTRACTOR TO COORDINATE LIGHT FIXTURE MOUNTING WITH DUCTWORK.
- WHERE WIRING IS RUNNING IN OPEN CEILINGS, ALL WIRING SHALL BE IN EMT TYPE AND PAINTED. COORDINATE COLOR WITH ARCHITECT.
- PROVIDE A NEUTRAL CONDUCTOR TO ALL WALL MOUNTED LINE VOLTAGE LIGHT SWITCHES, UNLESS NOTED OTHERWISE. IF NEUTRAL TERMINATION IS NOT REQUIRED FOR THE DEVICE THEN CAP CONDUCTOR AND TAG AS "NEUTRAL FOR FUTURE USE".
- PROVIDE ALL LOW VOLTAGE WIRING (UNDER 110V) AND ALL REQUIRED POWER SUPPLIES FOR LOW VOLTAGE FIXTURES, INCLUDING ALL TRANSFORMERS, DRIVERS, POWER SUPPLIES, AND REQUIRED AUXILIARY DEVICES, IN CLOSE PROXIMITY OF FIXTURES BEING SERVED IN A WELL-VENTILATED AND ACCESSIBLE LOCATION. PROVIDE REMOVABLE ACCESS PANEL FOR ACCESS. COORDINATE FINAL LOCATION WITH ARCHITECT. WHERE POWER SUPPLIES ARE LISTED CLASS 2 AND PLURIBUR RATED BY NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL), SECONDARY WIRING MAY BE INSTALLED WITHOUT CONDUIT. ALL SECONDARY WIRING NOT SUPPLIED FROM A LISTED CLASS 2 POWER SUPPLY SHALL BE RUN IN RACEWAY. CLASS 2 LOW VOLTAGE WIRING MUST NOT BE RUN IN THE SAME RACEWAY OR INSTALLED IN THE SAME BOX OR ENCLOSURE WITH 120-VOLT BRANCH-CIRCUIT WIRING. UTILIZE LENGTH OF WIRING TO DETERMINE WIRE GAUGE BASED ON LOAD AND WIRE LENGTH TO SATISFY FIXTURE MANUFACTURER'S VOLTAGE DROP REQUIREMENTS. REMOTE POWER SUPPLY LOCATION SHALL NOT EXCEED FIXTURE MANUFACTURER'S RECOMMENDED DISTANCE FROM FIXTURES. WHERE MULTIPLE DIMMED FIXTURES ARE ON SAME POWER SUPPLY, SECONDARY WIRING BETWEEN FIXTURES IN SAME FIXTURE CONTROL ZONE SHALL BE EQUAL TO THE LONGEST SECONDARY WIRE LENGTH TO ACHIEVE UNIFORM DIMMING. WHERE SPECIFIED LOW VOLTAGE FIXTURE ASSEMBLY IS FURNISHED WITH VENDOR SUPPLIED SECONDARY CABLE, COORDINATE WITH FIXTURE VENDOR TO PROCURE REQUIRED WIRE LENGTH AND GAUGE.
- WHERE APPLICABLE, ADJUST AIMING OF EMERGENCY LIGHTS AS REQUIRED TO PROVIDE PROPER ILLUMINATION AT FLOOR AVOIDING OBSTACLES AND SHADOWS AFTER FURNITURE SET-UP IS COMPLETE.
- PROVIDE PROPER COMMISSIONING, CALIBRATION, ADJUSTMENT, PROGRAMMING, AND OPERATION OF ALL LIGHTING CONTROL DEVICES FOR A COMPLETE INSTALLATION TO COMPLY WITH THE DESIGN INTENT. WHETHER OR NOT THIS COMMISSIONING IS REQUIRED BY AN ENERGY CODE.
- REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS FOR ALL EXIT SIGNS. EXIT SIGNS ARE SHOWN ON PLANS FOR REFERENCE ONLY. ALL EXIT SIGNS SHALL BE PROVIDED WITH BATTERY PACKS AND CONNECTED TO UNSWITCHED CIRCUIT SERVING EMERGENCY PROVISIONS IN THE AREA.
- FOR EMERGENCY LIGHTING SYSTEMS DERIVING POWER FROM A GENERATOR OR INVERTER UNDER LOSS OF NORMAL POWER, ALL LIGHTS WITH 'EM' SHALL BE CONNECTED TO EMERGENCY LIGHTING CIRCUIT AND ADJACENT NORMAL LIGHTING CIRCUIT, AND SHALL MATCH CONTROLS OPERATION OF ADJACENT NORMAL LIGHTING CONTROLS. EMERGENCY LIGHTING FIXTURES SHALL TURN ON TO 100% UPON THE LOSS OF NORMAL POWER. PROVIDE (1) UL924 ALOR BYPASS RELAY PER ZONE (NOT SHOWN) WHERE ONLY SOME FIXTURES IN A CONTIGUOUS ROOM ARE ON THE GENERATOR OR INVERTER TO COMPLY WITH NEC 700.17(1), UNLESS OTHERWISE NOTED. WHERE INDICATED BY SHOWN "BCLTS" DEVICE, PROVIDE (1) UL1008 BCLTS MINI ATS PER ZONE TO COMPLY WITH NEC 700.17(2) WHERE ALL FIXTURES IN A CONTIGUOUS ROOM ARE ON THE GENERATOR OR INVERTER SUCH AS CORRIDORS OR STAIRWELLS WHERE 100% OF LIGHTING IS EMERGENCY).
- FOR EMERGENCY LIGHTING SYSTEMS DERIVING POWER FROM A LOCAL BATTERY UNDER LOSS OF NORMAL POWER, ALL LIGHTS WITH 'EM' SHALL BE CONNECTED TO NORMAL LIGHTING CIRCUIT AND SHALL MATCH CONTROLS OPERATION OF NORMAL LIGHTING CONTROLS. EMERGENCY LIGHTING FIXTURES SHALL AUTOMATICALLY TURN ON TO LEVEL PROVIDED FROM BATTERY SOURCE UPON THE LOSS OF NORMAL POWER.
- MAINTAIN POWER TO EXISTING BASE BUILDING CORE LIGHTING (CORRIDOR LIGHTING, CONTROLS, ETC.), IF EXISTING POWER SOURCE IS DEMOLISHED OR RELOCATED UNDER THIS SCOPE OF WORK, PROVIDE (2) 120V, 20A DEDICATED CIRCUITS PER CORE ELECTRICAL CLOSET TO A MATCHING POWER SOURCE AS ORIGINALLY CIRCUITED.

PROJECT NOTES:

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△	Date	Description
1	4/4/23	ISSUED FOR 90% PROGRESS
2	4/13/23	ISSUE FOR BID, PERMIT & CONSTRUCTION

LIGHTING SEQUENCE OF OPERATIONS CONTROLS INTENT

CONTROLS SYMBOL	AUTO-ON / 15 MINUTE AUTO-OFF	PARTIAL-ON / 15 MINUTE AUTO-OFF	MANUAL-ON / 15 MINUTE AUTO-OFF	TIMECLOCK CONTROL	MANUAL CONTROL ON / OFF	MANUAL CONTROL ON / OFF / DIM (NOTE A)	WIRED MANUAL CONTROLS	WIRELESS MANUAL CONTROLS	AUTOMATIC DAYLIGHT DIMMING CONTROL (NOTE B)	AV INTEGRATED (NOTE C)	LOW VOLTAGE MOTORIZED SHADES (NOTE D)	LINE VOLTAGE MOTORIZED SHADES (NOTE D)	RECEPTACLE CONTROL AUTOMATIC ON / OFF (NOTE E)	CONTROL NARRATIVE
C1					x		x							DO NOT PROVIDE OCCUPANCY SENSORS; LIGHTING SHALL BE MANUALLY TURNED ON AND OFF.
C2			x		x		x							USER MUST ACTIVATE LIGHTING CONTROL VIA BUTTON PRESS TO TURN ON LIGHTS; AFTER 15 MINUTES OF INACTIVITY, ALL CONTROLLED LOADS SHALL TURN OFF.
C3			x			x	x		x					USER MUST ACTIVATE LIGHTING CONTROL VIA BUTTON PRESS TO TURN ON LIGHTS; AFTER 15 MINUTES OF INACTIVITY, ALL CONTROLLED LOADS SHALL TURN OFF.
C4			x			x	x		x					USER MUST ACTIVATE LIGHTING CONTROL VIA BUTTON PRESS TO TURN ON LIGHTS; AFTER 15 MINUTES OF INACTIVITY, ALL CONTROLLED LOADS SHALL TURN OFF.
C5	x				x		x							ALL LIGHTING SHALL AUTOMATICALLY TURN ON TO 100% UPON SENSING AN OCCUPANT. AFTER 15 MINUTES OF INACTIVITY, ALL CONTROLLED LOADS SHALL TURN OFF.
C6	x					x	x							ALL LIGHTING SHALL AUTOMATICALLY TURN ON TO 100% UPON SENSING AN OCCUPANT. AFTER 15 MINUTES OF INACTIVITY, ALL CONTROLLED LOADS SHALL TURN OFF.
C7	x					x		x	x					EACH AREA UP TO 600SQFT SHALL BE CONTROLLED SEPARATELY. UPON SENSING AN OCCUPANT, AREA GENERAL LIGHTING SHALL AUTOMATICALLY TURN ON TO FULL, AND DECORATIVE AND TASK LIGHTING SHALL TURN ON TO FULL. AFTER 15 MINUTES OF INACTIVITY, ALL CONTROLLED LOADS...
C8				x	x		x							SHALL TURN ON AT DUSK AND OFF AT DAWN
C9				x		x	x		x	x				GENERAL LIGHTING SHALL TURN ON TO 50% ONE HOUR PRIOR TO PUBLIC OPEN AND AT CLOSE OF BUSINESS. ALL LIGHTING SHALL TURN ON TO 100% DURING BUSINESS HOURS AND OFF AT END OF DAY. ALL GENERAL LIGHTING SHALL BE DIMMABLE. COORDINATE TIMES WITH OWNER.

GENERAL NOTES:

- PROVIDE SHOWN CONTROL DEVICES WITH REQUIRED POWER PACK, ROOM CONTROLLER, OR OTHER DEVICES AS REQUIRED TO COMPLY WITH CONTROLS INTENT.
- ZONING: PROVIDE ZONING PER LIGHT TYPE OR AS INDICATED ON PLAN; ALL ZONES SHALL HAVE DISTINCT OPERATION.
- CONTROL STATIONS: CONFIGURATION, NUMBER, HEIGHT, AND LOCATION OF LIGHT SWITCHES (CONTROL STATIONS) TO BE COORDINATED WITH ARCHITECT. OCCUPANT CAN MANUALLY OPERATE LOCAL SWITCH(ES) TO ADJUST ON/OFF (AND DIMMING) LEVEL OF FIXTURES.

CONTROLS NOTES:

A. DIMMING: WHERE INDICATED, GENERAL LIGHTING TO BE PROVIDED WITH DIMMING. DIMMING TECHNOLOGY OF LIGHTING CONTROL DEVICES SHALL MATCH DIMMING TECHNOLOGY OF LIGHT FIXTURES.

B. AUTOMATIC DAYLIGHT DIMMING CONTROL: WHERE SHOWN WITH A DAYLIGHT ZONE AND ZONED SEPARATELY, GENERAL LIGHTING WITHIN EACH DAYLIGHT ZONE SHALL BE SEPARATELY CONTINUOUSLY DIMMED AUTOMATICALLY. SETPOINT: THE LOWEST LIGHT LEVEL PERMITTED SHALL BE MEASURED AT THE TASK PLANE WITH ONLY ELECTRIC LIGHT CONTRIBUTIONS. FIXTURES SHALL DIM TO OFF.

C. AV INTEGRATION: REFER TO AV INTEGRATION BOX NOTE FOR MORE INFORMATION.

D. PROVIDE SHADE CONNECTION AND INTEGRATION WITH THE LIGHTING CONTROLS AND CONTROL STATION DESIGN.

E. CONTROLLED RECEPTACLES: DURING OCCUPIED HOURS, CONTROLLED RECEPTACLES SHALL BE ON. DURING UNOCCUPIED HOURS, AFTER 15 MINUTES ALL CONTROLLED RECEPTACLES SHALL TURN OFF UPON SENSING NO ACTIVITY.

ELECTRICAL LIGHTING CONTRLOLS SYMBOLS LIST

F1	P#4	LIGHT FIXTURE SYMBOL (USED ONLY FOR REFERENCE OF ELECTRICAL PROPERTIES)
F1	P#4	F1 - DENOTES FIXTURE TYPE
z1		z1 - DENOTES ZONE
P#4		P#4 - DENOTES PANEL DESIGNATION AND CIRCUIT NUMBER
F1	P#4	EM - SWITCHED EMERGENCY
EM	z1	EMNL - SWITCHED NIGHT LIGHT
\$		LINE VOLTAGE ON/OFF SWITCH (MECHANICAL ROOMS, IT ROOMS, ELECTRICAL CLOSETS)
vs	D	WALL MOUNTED OCCUPANCY SENSOR: REFER TO SCHEDULE FOR OPERATION, WITH DIMMING. MATCH LIGHT FIXTURE DIMMING TECHNOLOGY
vs	\$	WALL MOUNTED OCCUPANCY SENSOR: REFER TO SCHEDULE FOR OPERATION
\$	a,b,c	LIGHTING CONTROL SYSTEM SWITCH a,b,c DENOTES ZONE
D	a,b,c	LIGHTING CONTROL SYSTEM DIMMING SWITCH a,b,c DENOTES ZONE. REFER TO DETAILS FOR ADDITIONAL MODULES NEEDED FOR EACH DIMMING TYPE (LINE VOLTAGE, 0-10V, .ETC)
VS	a	VACANCY SENSOR + WALL SWITCH a DENOTES ZONING SEE DETAILS ON E-200 DWG SERIES.
VS	a + a	OCCUPANCY SENSOR + WALL SWITCH a DENOTES ZONING SEE DETAILS ON E-200 DWG SERIES.
VS	a	LUTRON DAYLIGHT SENSOR a DENOTES ZONING SEE DETAILS ON E-200 DWG SERIES
KP	D	PRE-SET SCENE SELECT KEYPAD SEE E-200 DWG SERIES
BS	D	KEYPAD FOR MOTORIZED SHADES INTEGRATED INTO LIGHTING CONTROL SYSTEM SEE E-200 DWG SERIES FOR DETAILS.
HUB		LIGHTING CONTROL SYSTEM CEILING MOUNTED HUB

REFER TO ARCHITECTURAL PLANS, LIGHTING PLANS, LIGHTING CONTROLS DIAGRAMS, ENERGY COMPLIANCE FORMS, AND OVERALL GENERAL NOTES FOR ADDITIONAL CONTROLS REQUIREMENTS. CONTRACTOR SHALL PROVIDE COMPLETE INSTALLATION TO COMPLY WITH DESIGN INTENT.

Seal / Signature

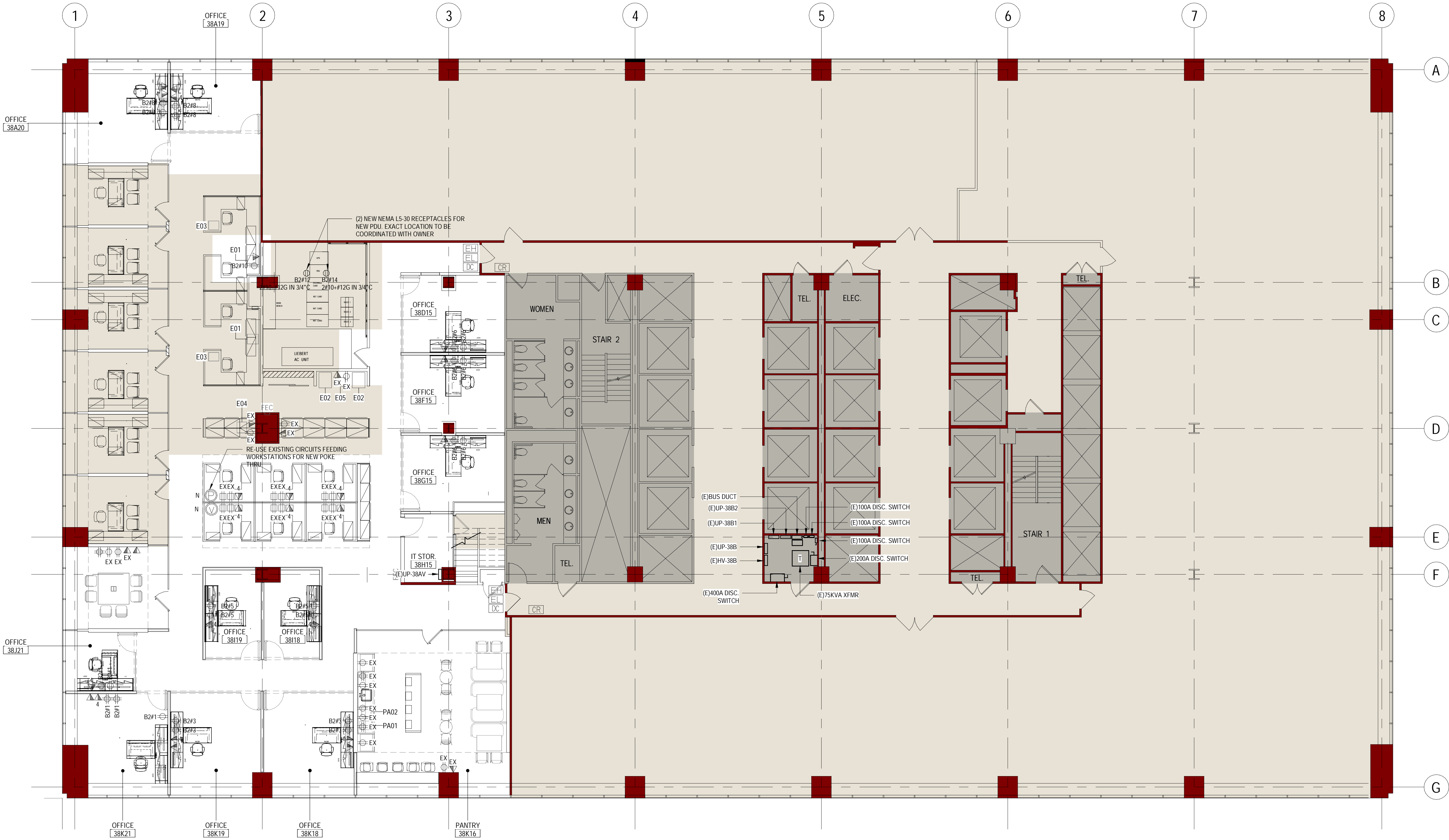
Project Name
38TH FLOOR

Project Number
1462005

Description
LEVEL 38 ELECTRICAL LIGHTING PLAN

Scale
As indicated

E-400.00



- PROJECT NOTES:
1. TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 NEW YORK CITY ENERGY CONSERVATION CODE.
 2. BOOK SPECIFICATION IS PART OF THIS CONTRACT.
 3. "THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES."

△ Date	Description
1 4/4/23	ISSUED FOR 90% PROGRESS
2 4/13/23	ISSUE FOR BID, PERMIT & CONSTRUCTION

Seal / Signature

Project Name
38TH FLOOR

Project Number
1462005

Description
LEVEL 38 ELECTRICAL POWER PLAN

Scale
As indicated

E-500.00

DOB NOW:
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ELECTRICAL POWER GENERAL NOTES

1. REFER TO OTHER SHEETS IN THIS SET FOR SYMBOLS, GENERAL NOTES, AND DETAILS.
2. FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL POWER, TELE/ATA, AV OUTLETS, ELECTRIFIED FURNITURE IN FEEDS, AND MECHANICAL EQUIPMENT SEE ARCHITECTURAL DRAWINGS AND RESPECTIVE TRADE DRAWINGS. THIS DRAWING ONLY REFLECTS POWER AND CIRCUITING INFORMATION. COORDINATE WITH ARCHITECT AND OTHER TRADES FOR DETAILS.
3. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING HEIGHTS, INSTALLATION INFORMATION, FINAL CONNECTION INFORMATION, AND ANY ADDITIONAL INFRASTRUCTURE NEEDED FOR A COMPLETE AND OPERATIONAL INSTALLATION. DESIGN INTENT SHOWN IS FOR CONNECTION TO ELECTRICAL UTILITY AND FOR DEVICE, EQUIPMENT, AND DISCONNECT TERMINATION POINTS. INSTALLATION WILL NOT BE COMPLETE WITHOUT COMPLYING WITH ARCHITECTURAL REQUIREMENTS.
4. CIRCUITS ARE DESIGNATED BY THE NUMBER SHOWN ADJACENT TO EACH RECEPTACLE. WIRING IS SHOWN ONLY UNDER SPECIAL CIRCUMSTANCES. PROVIDE CONDUITS, WIRES, ARMORED CABLE, AND BOXES REQUIRED TO ENERGIZE THE EQUIPMENT AS SHOWN.
5. ALL BRANCH WIRING SHALL BE RUN CONCEALED IN WALLS AND ABOVE HUNG CEILING, U.O.N.
6. 3/4" SHALL BE THE MINIMUM SIZE CONDUIT INSTALLED. COPPER #12AWG THHN SHALL BE MINIMUM WIRE SIZE AND SHALL BE USED FOR ALL BRANCH WIRING UNLESS OTHERWISE NOTED. UPSIZE WIRING ACCORDINGLY TO MEET CODE REQUIRED VOLTAGE DROP ON ALL BRANCH WIRING. WHERE LENGTH OF BRANCH WIRING EXCEEDS 70 FEET, UTILIZE CU#10AWG THHN U.O.N.
7. WHERE CONDUCTORS (FEEDERS AND BRANCH CIRCUITING) HAVE BEEN OVERSIZED, AND TERMINATIONS TO ACCOMMODATE THE LARGER CONDUCTORS ARE NOT AVAILABLE FROM THE EQUIPMENT VENDOR, CONTRACTOR SHALL PROVIDE A SPLICE BOX WITHIN TEN (10) FEET OF THE TERMINATION AND SPICE DOWN TO THE MAXIMUM FEEDER SIZE WHICH CAN BE TERMINATED IN AVAILABLE LUGS. SPLICE BOX SHALL BE PROVIDED AT EITHER END OF FEEDER AS REQUIRED.
8. ELECTRICAL CONTRACTOR SHALL PROVIDE POWER TO THE RESPECTIVE CEILING MOUNTED JUNCTION BOXES FOR DOOR OPENING SYSTEMS. RUN WIRES AND CONDUITS ABOVE HUNG CEILING. THE ELECTRICAL CONTRACTOR SHALL ALSO PROVIDE EMPTY 3/4" EMT STUB-UPS INTO THE HUNG CEILING PLENUM FROM THE LOCATION OF EACH CARD READER, ELECTRIC STRIKE, MAGNETIC LOCK, AND RELEASE BUTTON. INTERCONNECTIONS BETWEEN ALL COMPONENTS OF THE SECURITY SYSTEM ARE BY OTHERS. STUB-UPS SHALL BE EXTENDED AS REQUIRED TO REACH INTO AREAS WITH ACCESSIBLE CEILINGS. DO NOT END STUB-UPS ABOVE A GYPSUM BOARD CEILING.
9. ALL CIRCUITS TO COMPUTERS, LASER JET PRINTERS, COPIERS, FAX MACHINES, AND ANY OTHER LOADS OF NON-LINEAR NATURE SHALL HAVE RECEPTACLES WITH SEPARATE DEDICATED GROUND AND NEUTRAL WIRES.
10. PROVIDE 1-1/4" CONDUIT FOR TELE/ATA OUTLETS AND 1-1/2" CONDUIT FOR AV OUTLETS. SEE THIS PLAN AND DETAILS FOR ADDITIONAL INFORMATION.
11. WHERE CONDUIT RUNS EXCEED MORE THAN (4) 90° BENDS, PROVIDE PULLBOX.
12. REFER TO DETAILS SHEET FOR FURNITURE DETAIL WIRING.
13. WHERE WIRING IS RUNNING IN OPEN CEILINGS, ALL WIRING SHALL BE IN EMT TYPE AND PAINTED WHITE. COORDINATE EXACT COLOR WITH ARCHITECT.
14. WHERE RECEPTACLES ARE SHOWN WITHOUT CIRCUIT NUMBERS PROVIDE 120V-20A CIRCUIT FROM NEAREST 120V PANELBOARD TO RECEPTACLES. CONNECT NO MORE THAN 8 DUPLEX RECEPTACLES TO A SINGLE 120V-20A CIRCUIT U.O.N.
15. CONTRACTOR SHALL COORDINATE AND SUPPLY THE PROPER PLUG AND RECEPTACLE TYPES FOR ALL FINAL PANTRY APPLIANCES AND EQUIPMENT CHOSEN.
16. GFCI PROTECTION (RECEPTACLES OR CIRCUIT BREAKERS) SHALL BE USED WHERE REQUIRED BY GOVERNING CODES INCLUDING ALL RECEPTACLES SHOWN TO BE WITHIN 6FT OF A SINK/WATER AND WITHIN KITCHENS AND PANTRIES.
17. MAINTAIN POWER TO EXISTING BASE BUILDING CORE EQUIPMENT (CORRIDOR RECEPTACLES, ETC.). IF EXISTING POWER SOURCE IS DEMOLISHED OR RELOCATED UNDER THIS SCOPE OF WORK, PROVIDE (2) 120V, 20A DEDICATED CIRCUITS PER CORE ELECTRICAL CLOSET TO A MATCHING POWER SOURCE AS ORIGINALLY CIRCUITED.