

## ELECTRICAL DEMOLITION NOTES:

- THE CONTRACTOR SHALL VISIT THE PREMISES AND COMPARE SAME WITH A FULL SET OF BID DOCUMENTS AND SPECIFICATIONS AND SATISFY HIMSELF OF THE CONDITIONS EXISTING AT THE BUILDING BEFORE DELIVERY OF HIS PROPOSAL. NO ADDITIONAL ALLOWANCE WILL BE MADE TO THE CONTRACTOR DUE TO HIS NEGLIGENCE OR FAILURE TO COMPLY WITH THE SPECIFIED REQUIREMENTS.
- NOTES AND GRAPHIC REPRESENTATIONS SHALL NOT LIMIT THE EXTENT OF DEMOLITION REQUIRED. CONTRACTOR SHALL VISIT THE SITE, CAREFULLY EXAMINE EXISTING CONDITIONS AND SHALL PERFORM ALL DEMOLITION REQUIRED TO ACHIEVE THE FINAL DESIGN INTENT AS REQUIRED BY THE CONTRACT DOCUMENTS. EXTENT OF ALL DEMOLITION WORK SHALL BE COORDINATED WITH THE ARCHITECT.
- ALL WORK REQUIRED TO REMAIN IN SERVICE BUT INTERFERING WITH THE ALTERATIONS SHALL BE RELOCATED AND RECONNECTED USING MATERIALS AND STANDARDS OF THIS CONTRACT.
- EQUIPMENT AND WIRING TO BE REMOVED SHALL BE DE-ENERGIZED PRIOR TO ANY DEMOLITION WORK. TEMPORARY LIGHTING SHALL BE PROVIDED ON THE ENTIRE FLOOR BEING DEMOLISHED UNTIL THE WORK IS COMPLETE.
- EQUIPMENT INDICATED TO BE REMOVED SHALL BE TAKEN FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS AND ENVIRONMENTAL REGULATIONS. EQUIPMENT REQUIRED TO BE TURNED OVER TO THE OWNER SHALL BE PLACED IN A MUTUALLY ACCEPTABLE LOCATION.
- THE WORK SHALL INCLUDE THE REMOVAL OF MATERIALS AS DIRECTED. PRIOR TO REMOVING EQUIPMENT AND MATERIALS FROM THE PROJECT SITE, THE OWNER'S MANAGER SHALL INSPECT AND ADVISE WHICH ITEMS WILL BE RESTORED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL FROM THE PREMISES ALL DEBRIS RESULTING FROM REMOVAL OF ELECTRICAL WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ROUGH PATCHING, REPAIRING AND FIREPROOFING ALL OPENINGS IN FLOORS OR WALLS AS REQUIRED AFTER REMOVAL OF ANY CONDUITS OR WIRE. FINISH PATCHING SHALL BE PERFORMED BY ANOTHER DIVISION.
- THIS CONTRACTOR SHALL MAINTAIN CONTINUITY OF SERVICE TO EXISTING BUILDING FIRE ALARM SYSTEM. COORDINATE WITH BUILDING MANAGER.
- THIS CONTRACTOR SHALL NOT DISCONNECT OR REMOVE ANY EXIT LIGHTS, PULL STATIONS AND/OR FIRE ALARM SPEAKERS LOCATED AT STAIR ENTRANCES UNLESS OTHERWISE NOTED.
- THE REMOVAL OF ALL FIRE ALARM, COMMUNICATIONS, DATA AND SECURITY EQUIPMENT AND ASSOCIATED CABLING SHALL BE COORDINATED WITH BUILDING OPERATING PERSONNEL. EXISTING BASE BUILDING FIRE ALARM SYSTEM SHALL REMAIN IN OPERATION DURING BOTH DEMOLITION AND CONSTRUCTION STAGES OF THIS PROJECT.
- REMOVAL OF EXISTING EQUIPMENT SHALL BE COORDINATED WITH REMOVAL AND PARTITIONS.
- DEMOLITION WORK SHALL INCLUDE THE FURNISHING OF ALL MATERIAL CUTTINGS, EXTENSIONS, CONNECTIONS, REPAIRING, ADAPTING AND OTHER WORK INCIDENTAL THERETO, TOGETHER WITH SUCH TEMPORARY CONNECTIONS AS MAY BE REQUIRED.
- THIS CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY LIGHT AND POWER TO INSURE THE SAFETY OF PERSONNEL AND POWER REQUIREMENTS OF THE VARIOUS TRADES.
- WHERE PRESENT WORK IS DAMAGED IN THE EXECUTION OF THIS CONTRACT, OR WHERE OPENINGS ARE LEFT DUE TO THE REMOVAL OF PIPES, EQUIPMENT OR APPARATUS, THE SAME SHALL BE REPAIRED TO CORRESPOND IN MATERIALS, QUALITY, SHAPE AND FINISH WITH THAT OF SIMILAR AND ADJOINING WORK, UNLESS OTHERWISE CALLED FOR.
- CONTRACTOR SHALL ASSURE THAT THE LIGHTING AND POWER TO TOILETS REMAIN IN WORKING CONDITION.
- WHERE REMOVAL OF EXISTING ELECTRICAL EQUIPMENT WILL RESULT IN OUTAGES IN AREAS NOT TO BE DEMOLISHED, THE CONTRACTOR SHALL COORDINATE IN ADVANCE AND OBTAIN THE APPROVAL OF THE BUILDING MANAGER.
- COORDINATE WITH OWNER WHICH FIXTURES, DEVICES AND EQUIPMENT, IF ANY, ARE TO BE REMOVED, KEPT INTACT AND RETURNED TO THE OWNER. IN GENERAL, ALL DEVICES, WIRING, RACEWAYS, BOXES, SUPPORTS AND OTHER APPURTENANCES WHICH ARE TO BE REMOVED SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED.
- CONTRACTOR IS TO DISCONNECT AND REMOVE ONLY WIRING AND RACEWAY SERVING FLOOR AREAS OF DEMOLITION. DO NOT REMOVE ANY BASE BUILDING HOMERUN CONDUITS.
- FEEDERS AND BRANCH CIRCUITS TO BE REMOVED - CONDUIT AND SUPPORTS SHALL BE REMOVED TO THE PANEL OF ORIGIN OR THE BOUNDARY OF THE PROJECT AREA. WIRING SHALL BE REMOVED TO THE PANEL OF ORIGIN. WHERE EMPTY CONDUITS REMAIN, INSTALL A PULL STRING AND IDENTIFY AT BOTH ENDS.
- FEEDERS AND BRANCH CIRCUITS TO BE RE-USED - REMOVE CONDUIT AND WIRING TO LOCATIONS WHICH AVOID CONFLICTS WITH NEW WORK. INSTALL JUNCTION BOXES, TAPE OFF CONDUCTORS AND IDENTIFY WITH PANEL AND CIRCUIT NUMBER.
- PROVIDE ADDITIONAL SUPPORT FOR ALL EXISTING CONDUITS, LOW VOLTAGE CABLING AND DEVICES TO REMAIN WHICH ARE AFFECTED BY DEMOLITION OF EXISTING CEILINGS AND PARTITIONS.
- ALL EXISTING UNUSED CONDUIT AND WIRING SHALL BE DROPPED TO THE FLOOR BY THE ELECTRICIAN FOR REMOVAL FROM THE BUILDING BY THE DEMOLITION OR GENERAL CONTRACTOR.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ASCERTAINING THE FOLLOWING:
  - WHICH EXISTING CIRCUITS ARE CONNECTED TO CONSTANT CIRCUITS (NIGHT LIGHT, EXIT LIGHTS, ETC.)
  - WHICH EXISTING CONDUITS ARE CIRCUITS ARE CONNECTED TO EXISTING EQUIPMENT TO REMAIN (TOILETS, JANITOR'S CLOSET, SERVICE ELEVATOR, LOBBY AND RECEPTACLES IN CORE CORRIDORS) AND SHALL MAINTAIN CONTINUITY OF SERVICE TO SUCH EQUIPMENT BY EITHER NEW CIRCUITRY OR EXTENSION OF EXISTING CIRCUITRY.
- UNLESS OTHERWISE NOTED, DISCONNECT AND REMOVE THE FOLLOWING:
  - EXISTING ELECTRICAL AND TELEPHONE FLOOR OUTLETS HOUSING THESE DEVICES. CONTRACTOR SHALL PATCH OPENINGS FLUSH WITH FLOOR WITH SUITABLE MATERIALS TO MATCH EXISTING.
  - EXISTING POWER AND COMMUNICATION/TELEPHONE WIRING FROM HUNG CEILING AND BELOW RAISED FLOOR.
  - EXISTING LIGHTING FIXTURES, RECEPTACLES, OUTLETS AND OTHER ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED OR WHERE IN CONFLICT WITH NEW CONSTRUCTION (ELECTRICAL DEVICES SHALL INCLUDE, BUT NOT BE LIMITED TO TEL/DATA OUTLETS, LIGHTING SWITCHES, RECEPTACLES, ETC.)
  - ALL CONDUIT AND WIRING BEING REMOVED SHALL BE REMOVED BACK TO SOURCE (PANELBOARD).
- IN THE PROCESS OF REMOVING WIRING DEVICES, LIGHTING FIXTURES AND OTHER ELECTRICAL EQUIPMENT AND MATERIALS, THIS CONTRACTOR SHALL EXERCISE EXTREME CAUTION TO PREVENT DAMAGE TO ARCHITECTURAL SURFACES WHICH ARE TO REMAIN. THE COST TO REPAIR OR REPLACE ANY MATERIAL DEEMED BY THE ARCHITECT TO HAVE BEEN UNLUDY DAMAGED BY THIS CONTRACTOR DURING DEMOLITION OR CONSTRUCTION SHALL BE PAID BY THIS CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- PROVIDE BLANK COVER PLATES AT OPEN BOXES WHERE EXISTING RECEPTACLES OR ELECTRICAL DEVICES ARE REMOVED FROM ENCLOSURES OR SURFACES NOT INDICATED TO BE REPAIRED OR REFINISHED.
- ALL WORK SHALL BE PROPERLY IDENTIFIED AFTER DEMOLITION. UPDATE ALL PANEL SCHEDULES TO REFLECT EQUIPMENT AND CIRCUIT REMOVALS.
- ALL PANELBOARDS AND ANY OTHER EQUIPMENT IN AREAS TO BE DEMOLISHED ARE TO REMAIN UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL RECYCLE ALL LIGHTING FIXTURE LAMPS AND BALLAST TO BE REMOVED. COORDINATE WITH BUILDING MANAGEMENT.

## ELECTRICAL GENERAL NOTES

- BEFORE SUBMITTING THE BID PROPOSAL, THE CONTRACTOR SHALL:
  - VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH JOB CONDITIONS.
  - REVIEW A FULL SET OF BID DOCUMENTS TO BECOME AWARE OF THE TOTAL JOB BEFORE SUBMITTING PRICE.
  - VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND INCLUDE IN BID PRICE ALL WORK REQUIRED TO ACCOMMODATE THE EXISTING INSTALLATION.
- REFER TO ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:
  - EXACT LOCATION OF ALL ELECTRICAL OUTLETS AND LIGHTING FIXTURES.
  - FINAL LOCATION OF CEILING MOUNTED EQUIPMENT.
  - ELECTRIFIED WALL PANEL SYSTEMS.
  - ADDITIONAL ELECTRICAL REQUIREMENTS.
- COORDINATE WITH OTHER TRADES TO DETERMINE THE EXACT LOCATION OF MOTORS, MOTOR TERMINAL BOXES, AND OTHER EQUIPMENT TO BE INSTALLED BY OTHER TRADES BEFORE CONDUIT WORK IS STARTED. REFER TO MECHANICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR LOCATIONS OF ALL EQUIPMENT.
- CONTRACTOR SHALL PROVIDE AND CONNECT ALL RACEWAYS AND WIRING FROM EQUIPMENT, DEVICES AND LIGHTING FIXTURES TO ITS SOURCE OF POWER AND CONTROLS.
- CONTRACTOR SHALL FIELD VERIFY DIMENSIONS OF FINISHED CONSTRUCTION PRIOR TO FABRICATION AND INSTALLATION OF FIXTURES AND EQUIPMENT.
- ELECTRICAL CONTRACTOR SHALL VERIFY SWITCHES, RECEPTACLES AND PLATE FINISHES WITH THE ARCHITECT BEFORE PERFORMING INSTALLATION. ALL COVERPLATES SHALL BE AS SPECIFIED BY ARCHITECT.
- EXISTING EQUIPMENT AFFECTED BY THE WORK OF THIS CONTRACT SHALL BE COMPLETELY IDENTIFIED IN ACCORDANCE WITH THE REQUIREMENTS OF THIS CONTRACT.
- COORDINATE LOCATION OF OUTLETS AND SWITCHES WITH FURNITURE AND EQUIPMENT LAYOUTS AND WITH OWNER'S REPRESENTATIVE.
- ANY EXISTING WORK DAMAGED AS A RESULT OF PERFORMING THE WORK OF THIS CONTRACT SHALL BE REPAIRED OR REPLACED AS REQUIRED. MATERIAL AND FINISH TO MATCH EXISTING TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
- ALL WORK REQUIRING ELECTRICAL SHUTDOWN WHICH WILL AFFECT OTHER FLOORS OF THE BUILDING OR EVEN AFFECT THE NORMAL CONTINUATION OF CONSTRUCTION WORK ON THESE FLOORS, SHALL BE DONE ON OVERTIME HOURS, AND SHALL NOT DISTURB CONTINUITY OF ELECTRICAL SERVICE TO EXISTING TENANTS ON THE AFFECTED FLOORS. COORDINATE SHUTDOWN REQUIREMENTS WITH BUILDING MANAGEMENT PROVIDING A MINIMUM OF ONE WEEK ADVANCE NOTICE.
- ALL ELECTRICAL WORK IN ADJOINING AREAS WHICH IS REQUIRED TO FUNCTION BUT IS AFFECTED BY THIS WORK SHALL BE RECONNECTED AND RESTORED TO ITS PRESENT FUNCTION AS PART OF THE ELECTRICAL SYSTEM OF THE BUILDING(S).
- WHERE MULTIPLE SWITCHES AND RECEPTACLES ARE INDICATED AT THE SAME LOCATION, THEY SHALL BE MOUNTED BEHIND A COMMON FACEPLATE.
- MOUNTING HEIGHTS OF EQUIPMENT AND DEVICES SHALL BE AS INDICATED ON THE ARCHITECTURAL DRAWINGS. WHERE MOUNTING HEIGHTS ARE NOT GIVEN ON THE ARCHITECTURAL DRAWINGS, UTILIZE THE FOLLOWING MOUNTING HEIGHTS UNLESS OTHERWISE NOTED (ALL DIMENSIONS TO CENTERLINE OF BOX):
  - RECEPTACLES (WALL MOUNTED) - 18" AFF
  - RECEPTACLES (COUNTER HEIGHT) - HORIZONTAL 6" ABOVE COUNTER
  - FURNITURE FEEDS (WALL MOUNTED) - SAME HEIGHT AS RECEPTACLES
  - TELEPHONE/DATA OUTLETS - SAME HEIGHT AS RECEPTACLES (WALL MOUNTED)
  - WALL MOUNTED TELEPHONES - 48" AFF
  - LIGHTING SWITCHES AND CONTROLS - 48" AFF
  - LIGHTING FIXTURES (AREAS WITHOUT CEILINGS) - 9'-6" AFF
  - FIRE ALARM AUDIOVISUAL AND STROBE UNITS - 80" AFF
  - MANUAL FIRE ALARM STATIONS - 48" AFF
  - PANELBOARDS AND CABINETS - 78" TO TOP OF ENCLOSURE
- WHERE EQUIPMENT, LIGHTING FIXTURES AND WIRING DEVICES ARE SHOWN WITH CIRCUIT NUMBERS ONLY, THE MINIMUM BRANCH CIRCUITING REQUIREMENTS SHALL BE AS FOLLOWS:
  - IN ACCORDANCE WITH N.E.C. ARTICLE 210.4 (B), CONTRACTOR SHALL PROVIDE SEPARATE NEUTRAL CONDUCTORS FOR EACH PHASE CONDUCTOR OF SINGLE PHASE LIGHTING OR RECEPTACLE BRANCH CIRCUITS, OR PROVIDE MULTI-POLE CIRCUIT BREAKERS IN PANELBOARDS WHERE USING A COMMON NEUTRAL FOR TWO OR THREE, SINGLE PHASE CIRCUIT HOMERUNS.
  - LIGHTING FIXTURES - 2 #12, #12 GRD. - 3/4" C.
  - RECEPTACLES - 2#12, #12 GRD. - 3/4" C.
  - BRANCH CIRCUIT BREAKERS (120 VOLT) \_ 1P, 20A
  - HOMERUNS TO PANELBOARDS SHALL CONTAIN NO MORE THAN (3) CIRCUITS.
  - 208/120 VOLT 480/277 VOLT WIRING SHALL BE RUN IN SEPARATE RACEWAY SYSTEMS.
  - EMERGENCY SERVICES SHALL BE RUN IN SEPARATE RACEWAYS FROM ALL OTHER SYSTEMS.
  - WHERE LIGHTING SWITCH INDICATIONS ARE NOT SHOWN, SWITCHES SHALL BE CONNECTED TO CONTROL ALL SWITCHED FIXTURES WITHIN THE CORRESPONDING SPACE.
- WHERE CONDUIT AND WIRING CONNECTIONS ARE NOT SHOWN ON THE PLANS, MAKE CONNECTIONS AS FOLLOWS:
  - USE #10 AWG WIRE TO THE FIRST AND ANY OUTLET FOR BRANCH CIRCUIT RUNS MORE THAN 80 FEET FOR 120V AND 208V CIRCUITS, U.O.N.
  - USE #10 AWG WIRE TO THE FIRST AND ANY OUTLET FOR BRANCH CIRCUIT RUNS MORE THAN 150 FEET FOR 265V AND 460V CIRCUITS, U.O.N.
- ALL BRANCH CIRCUIT WIRING SHALL BE RUN CONCEALED IN WALLS AND/OR ABOVE HUNG CEILING UNLESS OTHERWISE NOTED.
- WIRING IN AIR PLENUM HUNG CEILINGS INSTALLED WITHOUT CONDUIT OR EMT SHALL BE TEFLON JACKETED.
- NO LOW VOLTAGE WIRING SHALL BE PERMITTED IN THE SAME RACEWAY AS POWER WIRING.
- CONTRACTOR TO DE-RATE CONDUCTORS IN ACCORDANCE WITH THE 2008 NATIONAL ELECTRICAL CODE WHEN INSTALLING MORE THAN THREE (3) CIRCUITS IN A 3/4" HOMERUN.
- FOR WIRING IN EXISTING PARTITIONS WHERE EMT INSTALLATION IS IMPRACTICAL, FLEXIBLE GALVANIZED STEEL CONDUIT SHALL BE ACCEPTED. COORDINATE EXACT SIZE WITH SPECIFIED CABLING REQUIREMENTS. MINIMUM SIZE USED SHALL BE 3/2".
- PROVIDE DRAG LINES IN ALL EMPTY RACEWAYS.
- ALL CONDUITS FOR BRANCH CIRCUITING AND/OR COMMUNICATIONS CABLING, INCLUDING THOSE RUN IN CEILING OF FLOOR BELOW SHALL BE IDENTIFIED AT EVERY 50 FEET OF LENGTH AND AT EACH OUTLET AND PULL BOX WITH PANEL AND CIRCUIT NUMBER OR SYSTEM NAME.
- CONTRACTOR SHALL PROVIDE AN EMPTY CONDUIT SYSTEM WITH DRAG LINES AND OUTLET BOXES FOR INSTALLATION OF LOW TENSION WIRING SYSTEM. VERIFY EXACT REQUIREMENTS WITH SYSTEM VENDOR.
- THE MINIMUM RATING OF DISCONNECT SWITCHES SHALL BE EQUAL TO OR GREATER THAN THE RATINGS OF THE PROTECTION DEVICE ON THE SUPPLY SIDE OF THE DISCONNECT SWITCH. MINIMUM DISCONNECT SWITCH SIZE SHALL BE 30 AMPERES.
- CONTRACTOR SHALL NOT INSTALLED SMOKE / CARBON MONOXIDE DETECTORS WITHIN 3 FEET OF ANY AIR OUTLET.

## LIGHTING SYMBOLS

THE FOLLOWING ABBREVIATIONS ARE APPLICABLE TO ALL LIGHTING FIXTURES UNLESS OTHERWISE NOTED. REFER TO ARCHITECTURAL DRAWING A-300.00 FOR TYPE, MANUFACTURER, MODEL NUMBER, AND REMARKS FOR ARCHITECTURAL / FRONT-OF-HOUSE LIGHTING FIXTURES AND EXIT SIGNS.

A = FIXTURE TYPE  
a = SWITCH DESIGNATION; FIXTURES CONTROLLED BY SWITCH 'a'  
EM = DENOTES LIGHTING FIXTURE CONNECTED TO INVERTER  
NL = UNSWITCHED LIGHT FIXTURE

## LIGHTING CONTROLS SYMBOLS

THE FOLLOWING ABBREVIATIONS ARE APPLICABLE TO ALL LIGHTING CONTROL DEVICES UNLESS OTHERWISE NOTED. ARCHITECT TO SELECT COLOR FOR ALL WALL SWITCHES.

a = SWITCH DESIGNATION; CONTROLS LIGHT FIXTURES ON ZONE 'a'  
a,b = SWITCH DESIGNATION; CONTROLS LIGHT FIXTURES ON ZONES 'a' AND 'b'

	SINGLE POLE WALL SWITCH. 3 = THREE-WAY 4 = FOUR-WAY K = KEY OPERATED T = TIME SWITCH P = PILOT LIGHT VS = VACANCY SENSOR SWITCH OS = OCCUPANCY SENSOR SWITCH
	WALL-MOUNTED DIMMER SWITCH.
	WALL-MOUNTED DECORATOR DIMMER SWITCH FOR THREE-WAY DIMMING.
	CEILING MOUNTED OCCUPANCY SENSOR SWITCH
	CEILING MOUNTED VACANCY SENSOR SWITCH
	CEILING MOUNTED DAYLIGHT HARVEST SENSOR

## NURSE CALL SYMBOLS

FOR NURSE CALL SYSTEM DEVICES, UNLESS OTHERWISE NOTED, PROVIDE BACKBOX WITH 1" CONDUIT TERMINATED IN A 90 DEG. BEND 6" INTO NEAREST ACCESSIBLE CEILING. PROVIDE DRAG WIRE AND BUSHING.

	NURSE CALL LAVATORY PULL STATION. (PROVIDE 2 GANG BACK BOX, 2.5"x3.8"x3.75". COORDINATE SIZE WITH NURSE CALL VENDOR.)
	NURSE CALL CORRIDOR DOME LIGHT (PROVIDE 2 GANG BACK BOX, 2.5"x3.8"x3.75". COORDINATE SIZE WITH NURSE CALL VENDOR.)

## VOICE/DATA SYMBOLS

FOR ALL LOW-VOLTAGE SYSTEMS DEVICES, UNLESS OTHERWISE NOTED, PROVIDE BACKBOX WITH 1" CONDUIT TERMINATED IN A 90 DEG. BEND 6" INTO NEAREST ACCESSIBLE CEILING. PROVIDE DRAG WIRE AND BUSHING.

	WALL-MOUNTED VOICE & DATA OUTLET
	WALL-MOUNTED TELEPHONE OUTLET
	CEILING-MOUNTED DATA OUTLET
	WIRELESS ACCESS POINT
	TELEVISION OUTLET
	AUDIO/VISUAL OUTLET
	WALL-MOUNTED VOICE OUTLET
	DOOR ELECTRIC STRIKE
	DOOR RELEASE PUSH BUTTON

## AUXILIARY SYMBOLS

	DOOR ELECTRIC STRIKE
	DOOR RELEASE PUSH BUTTON

## ELECTRICAL SHEET LIST

E-001	ELECTRICAL SYMBOLS, ABBREVIATIONS, AND NOTES
E-002	ELECTRICAL SPECIFICATIONS
E-003	ELECTRICAL SPECIFICATIONS
E-101	ELECTRICAL POWER DEMOLITION PLAN
E-102	ELECTRICAL LIGHTING DEMOLITION PLAN
E-201	ELECTRICAL LIGHTING PLAN
E-301	ELECTRICAL POWER PLAN
E-401	ELECTRICAL RISER DIAGRAM AND PANEL SCHEDULES
E-501	ELECTRICAL DETAILS

## PANELBOARD SYMBOLS

	RECESSED (FLUSH) MOUNTED PANELBOARD
	SURFACE MOUNTED PANELBOARD
	DISTRIBUTION PANELBOARD

## CONDUIT SYSTEM SYMBOLS

	NEW CONCEALED CONDUIT
	EXISTING CONDUIT TO REMAIN (FLOOR PLAN)
	EXISTING CONDUIT TO REMAIN (RISER DIAGRAM)
	CONDUIT TURNING UP
	CONDUIT TURNING DOWN
	POWER CIRCUIT HOMERUN TO PANELBOARD - DESIGNATION DENOTES PANELBOARD, CIRCUIT NUMBERS, NUMBER OF WIRES, WIRE SIZE, AND CONDUIT SIZE.
	BRANCH CIRCUIT HOMERUN TO PANELBOARD - ARROWS DENOTE NUMBER OF CIRCUITS. DESIGNATION DENOTES PANELBOARD AND CIRCUIT NUMBERS.
	CONDUIT RUN EXPOSED ON CEILING AND WALLS (FLOOR PLAN)
	EXISTING CONDUIT/EQUIPMENT TO BE REMOVED
	WIRING TROUGH

## WIRING DEVICES SYMBOLS

	WALL-MOUNTED DUPLEX RECEPTACLE, HOSPITAL GRADE, 20A, 125V, 2P, 3W, GROUNDED. NEMA CONFIGURATION 5-20R. GFI = GROUND FAULT CIRCUIT INTERRUPTER TYPE USB = COMBINATION DUPLEX RECEPTACLE WITH (2) TYPE 'A' USB CHARGING PORTS EM = RECEPTACLES ON EMERGENCY POWER, COLOR RED
	WALL-MOUNTED QUADRUPLEX (TWO DUPLEX) RECEPTACLE, HOSPITAL GRADE, 20A, 125V, 2P, 3W, GROUNDED. NEMA CONFIGURATION 5-20R.
	WALL-MOUNTED SINGLE RECEPTACLE, HOSPITAL GRADE, 20A, 125V, 2P, 3W, GROUNDED. NEMA CONFIGURATION 5-20R. C = RECESSED CLOCK RECEPTACLE
	WALL-MOUNTED SINGLE RECEPTACLE, HOSPITAL GRADE, SPECIAL PURPOSE A = 20A, 250V, 2P, 3W, SELF-GROUNDING, NEMA CONFIGURATION 5-20R.
	FLOOR-MOUNTED QUADRUPLEX (TWO DUPLEX) RECEPTACLE, HOSPITAL GRADE, 20A, 125V, 2P, 3W, GROUNDED. NEMA CONFIGURATION 5-20R.
	CEILING MOUNTED DUPLEX RECEPTACLE, HOSPITAL GRADE, 20A, 125V, 2P, 3W, GROUNDED. NEMA CONFIGURATION 5-20R.
	POWER POLE, LEGRAND MODEL#30TC4V

## POWER SYMBOLS

	MOTOR WITH JUNCTION BOX AND LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT FOR FINAL EQUIPMENT CONNECTION (5 FOOT MAXIMUM LENGTH) NUMERAL DENOTES HORSEPOWER. "F" DENOTES FRACTIONAL HORSEPOWER LESS THAN 1/2 HP. "M" DENOTES MOTOR OF UNSPECIFIED HORSEPOWER
	FUSED DISCONNECT SWITCH, VOLTAGE RATING AS REQUIRED 60A - FUSE AMPS 100A/3P - SWITCH AMPS / # OF POLES
	UNFUSED DISCONNECT SWITCH, VOLTAGE RATING AS REQUIRED. RATING SAME AS UPSTREAM BRANCH CIRCUIT PROTECTIVE DEVICE. 100A/3P - SWITCH AMPS / # OF POLES
	STARTER / MOTOR CONTROLLER 1 - NEMA STARTER SIZE VFD = VARIABLE FREQUENCY DRIVE
	COMBINATION STARTER / MOTOR CONTROLLER AND UNFUSED DISCONNECT SWITCH 30A/3P - SWITCH AMPS / # OF POLES 20A - FUSE AMPS 1 - NEMA STARTER SIZE VFD = VARIABLE FREQUENCY DRIVE
	ENCLOSED CIRCUIT BREAKER 100A/3P - FRAME AMPS / # OF POLES 60A, 225AT - TRIP AMPS
	CEILING-MOUNTED JUNCTION BOX WITH LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT FOR FINAL EQUIPMENT CONNECTION (5 FOOT MAXIMUM LENGTH)
	WALL-MOUNTED JUNCTION BOX WITH LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT FOR FINAL EQUIPMENT CONNECTION (5 FOOT MAXIMUM LENGTH) 2 - INDICATED DOUBLE GANG JUNCTION BOX.
	FLOOR-MOUNTED JUNCTION BOX WITH LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT FOR FINAL EQUIPMENT CONNECTION (5 FOOT MAXIMUM LENGTH)
	DISCONNECT SWITCH - TOGGLE TYPE. MOTOR RATED WITH THERMAL OVERLOAD PROTECTION - 20A, SINGLE POLE, U.O.N. 2P = TWO POLE 3P = THREE POLE K = KEY OPERATED P = PILOT LIGHT
	WALL MOUNTED TELEVISION DATA OUTLET BOX WITH 1" EMPTY WALL-MOUNTED VOICE & DATA OUTLET CONDUIT WITH DRAG WIRE STUBBED 6" ABOVE ACCESSIBLE HUNG CEILING AND TERMINATED WITH BUSHING, HEIGHT BY ARCHITECT.
	TRANSIENT VOLTAGE SURGE SUPPRESSOR / SURGE PROTECTION DEVICE
	ELECTRICITY METER
	POWER TRANSFORMER VOLTAGES, WINDINGS, AND SIZE AS INDICATED

## ABBREVIATIONS

A	AMPERE
AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
ATC	AUTOMATIC TEMPERATURE CONTROL
BAS	BUILDING AUTOMATION SYSTEM
BFG	BELOW FINISHED GRADE
BMS	BUILDING MANAGEMENT SYSTEM
C	CONDUIT
CAB	CABINET
CAT	CATEGORY
CLG	CEILING
CKT(S)	CIRCUIT(S)
CM	CONTROL MODULE
COL	COLUMN
CSB	CABLE SUPPORT BOX
C/B	CIRCUIT BREAKER
☐	CENTERLINE
DEM	DEMOLISH
DWG	DRAWING
DP-	DISTRIBUTION PANEL (208/120V)
(E)X/EXIST	EXISTING TO REMAIN
ELEC	ELECTRIC
EM	EMERGENCY
EMR	ELEVATOR MECHANICAL ROOM
EMT	ELECTRICAL METALLIC TUBING
ER	EXISTING TO BE RELOCATED
EW	ELECTRIC WATER COOLER
EXH	EXHAUST
FA	FIRE ALARM
FASS	FIRE ALARM SERVICE SWITCH
FO	FIBER OPTIC
FOPP	FIBER OPTIC PATCH PANEL
FP	FIRE PUMP
FPSS	FIRE PUMP SERVICE SWITCH
FRE	FIBERGLASS REINFORCED EPOXY CONDUIT
G/GRD/OND	GROUND
GFI	GROUND FAULT INTERRUPTER
GRC	GALVANIZED RIGID CONDUIT
IDF	INTERMEDIATE DISTRIBUTION FRAME
IG	ISOLATED GROUND
JB	JUNCTION BOX
KVA	KILOVOLT AMPERE
KW	KILOWATT
KWH	KILOWATT HOUR
KDF	LOCAL DISTRIBUTION FRAME
LS	LOUDSPEAKER
LSS	LOCAL SOUND SYSTEM
LTG	LIGHTING
LVR	LOW VOLTAGE RELAY
MATV	MASTER TELEVISION
MDF	MAIN DISTRIBUTION FRAME
MECH	MECHANICAL
MER	MECHANICAL EQUIPMENT ROOM
MIC	MICROPHONE
MSB	MAIN SWITCHBOARD
MSSB	MAIN SERVICE SWITCHBOARD
N	NEUTRAL
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
N.O.	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
P	POLES
PB	PULL BOX
PH	PHASE
P&D	PLUMBING AND DRAINAGE
PNL	PANEL
PP	POWER PANEL
PR	PAIR
R	TO BE REMOVED
RC	REMOTE CONTROL
RE	RELOCATED IN NEW LOCATION
RGS	RIGID GALVANIZED STEEL
SP	SPARE
SPDT	SINGLE POLE DOUBLE THROW
SPST	SINGLE POLE SINGLE THROW
SSB	SOLID STATE BALLAST
SW	SWITCH
TC	TELECOMMUNICATION CLOSET
TCC	TEMPERATURE CONTROLS CONTRACTOR
TYP	TYPICAL
UG	UNDER GROUND
UNF	UNFUSED
UN	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
V	VOLT
VT	VAPORTIGHT
W	WIRE
WP	WEATHERPROOF
XP	EXPLOSION PROOF

# Montefiore

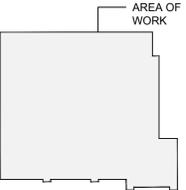
## MONTEFIORE NYACK HOSPITAL

160 NORTH MIDLAND AVENUE  
NYACK, NY 10960

## OUTPATIENT DIAGNOSTIC & TREATMENT FACILITY ALTERATIONS - MAIN LEVEL

18 NORTH HIGHLAND AVENUE  
NYACK, NY 10960

KEY PLAN: NOT TO SCALE



## ARCHITECT

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## MEP ENGINEER

# LORING

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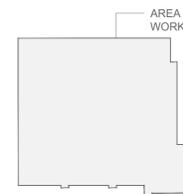
MONTEFIORE NYACK HOSPITAL

160 NORTH MIDLAND AVENUE  
NYACK, NY 10960

**OUTPATIENT DIAGNOSTIC  
& TREATMENT FACILITY  
ALTERATIONS - MAIN LEVEL**

18 NORTH HIGHLAND AVENUE  
NYACK, NY 10960

KEY PLAN: NOT TO SCALE



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ISSUED DOCUMENTS:

No.	Date	Description
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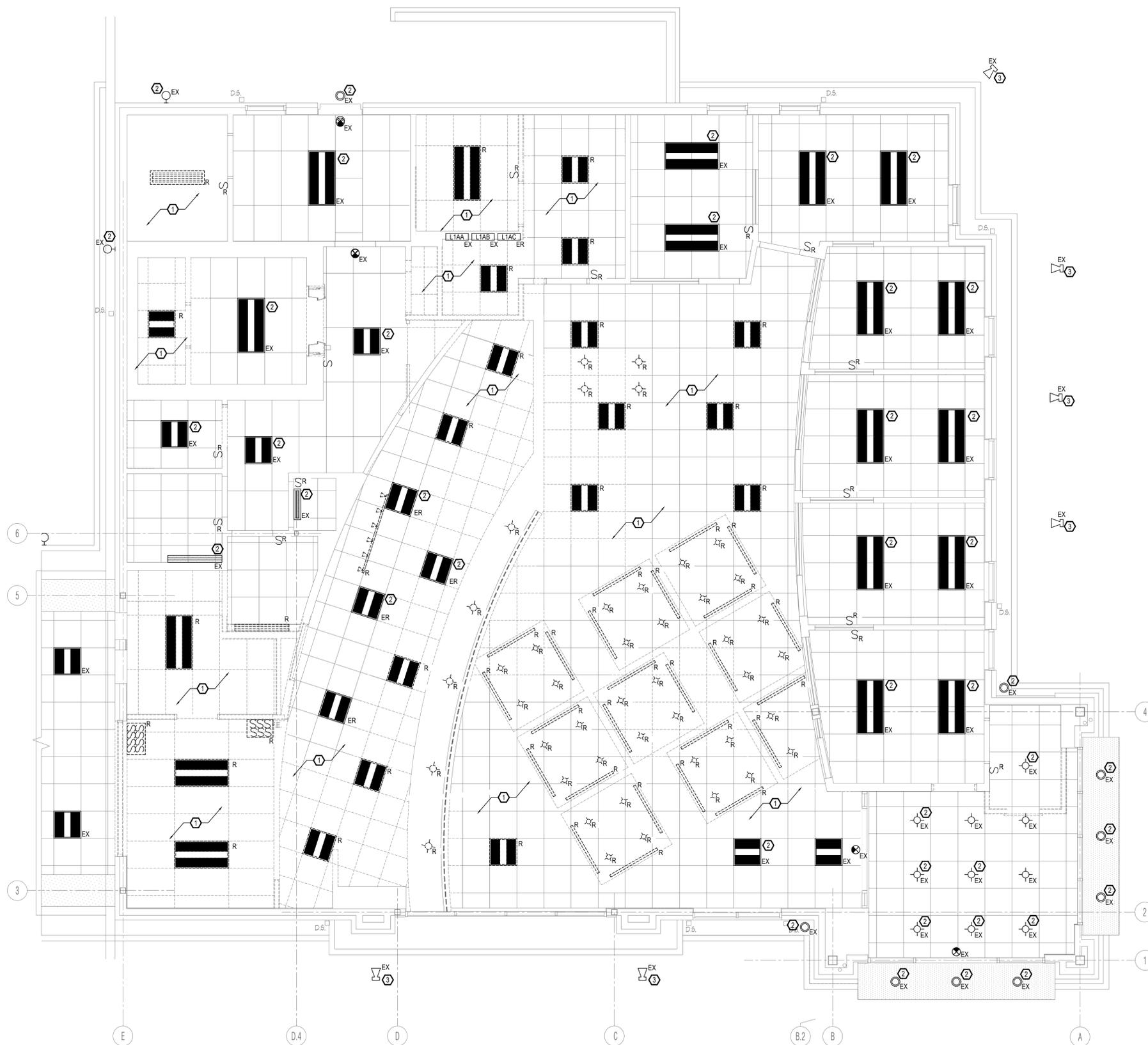


DRAWING TITLE:

**ELECTRICAL LIGHTING  
DEMOLITION PLAN**

PROJECT NUMBER <b>14404</b>	CON # <b>CAD</b>
DATE <b>11/19/2024</b>	SCALE <b>AS NOTED</b>
DRAWING NUMBER	

# E-102.00



**KEY NOTES:**

- EXISTING LIGHTING FIXTURES AND ASSOCIATED LIGHTING CONTROL DEVICES TO BE REMOVED, DISCONNECT CONDUIT AND WIRING BACK TO SOURCE, UNLESS OTHERWISE NOTED.
- EXISTING LIGHTING FIXTURES TO REMAIN/REUSED, EXISTING LIGHTING CONTROL DEVICES TO BE REMOVED.
- EXISTING EXTERIOR LIGHTING FIXTURES AND ASSOCIATED LIGHTING CONTROL DEVICES TO REMAIN, MAINTAIN EXISTING CIRCUITS DURING DEMOLITION.

**1** DEMOLITION PLAN  
SCALE: 1/4" = 1'-0"





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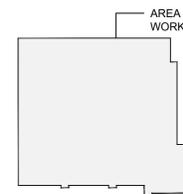
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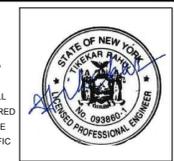
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DRAWING TITLE:

**ELECTRICAL POWER PLAN**

PROJECT NUMBER  
**14404**

DATE  
**11/19/2024**

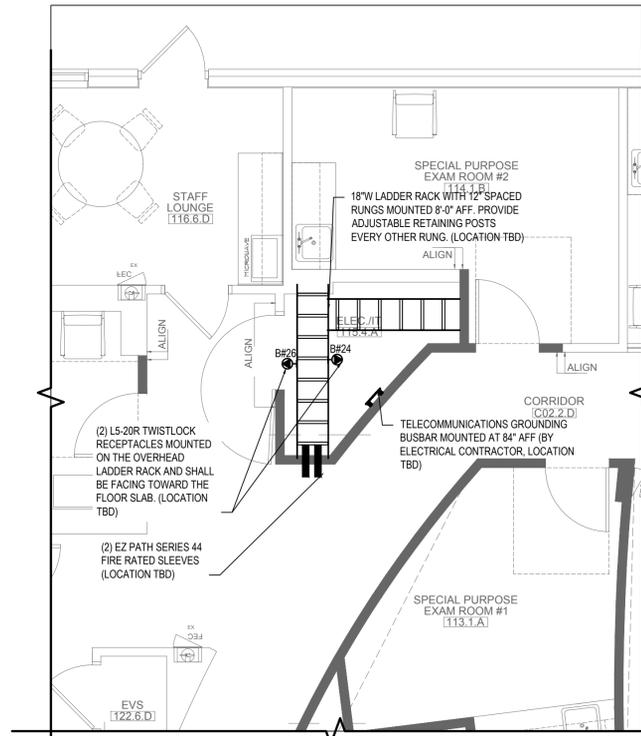
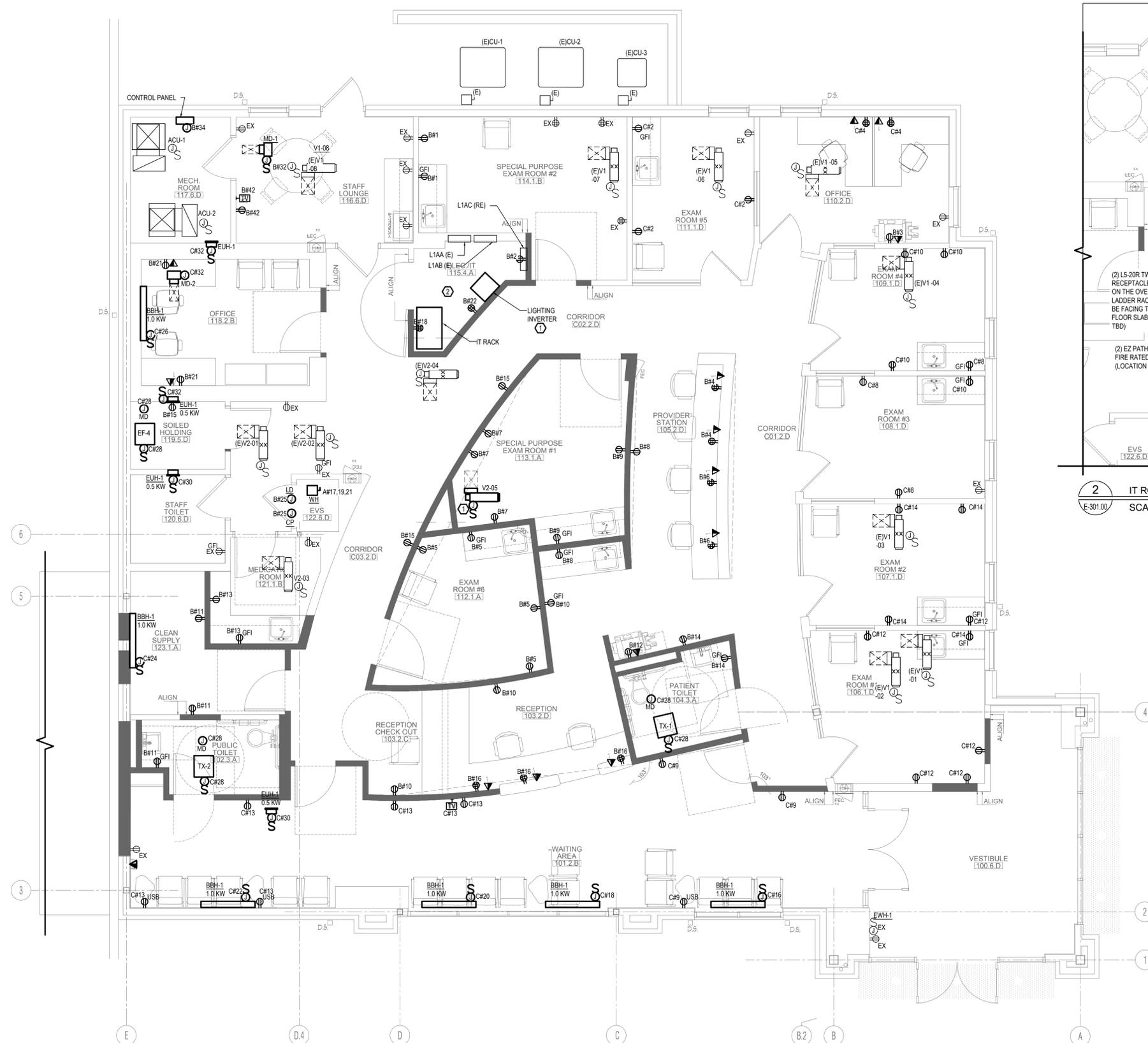
DRAWING NUMBER

CON #  
**CAD**

SCALE  
**AS NOTED**

DRAWING NUMBER

**E-301.00**



**2 IT ROOM PART PLAN**  
SCALE: 1/4" = 1'-0"

**GENERAL NOTES:**

- REFER TO E-001 FOR ELECTRICAL SYMBOL, ABBREVIATIONS AND NOTES.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION RECEPTACLE AND DATA OUTLET LOCATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR PATIENT HEADWALL SYSTEM ELEVATION.
- REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF MECHANICAL EQUIPMENT.
- REFER TO E-501.00 FOR ELECTRICAL RISER DIAGRAM AND ELECTRICAL SCHEDULES.
- CONTRACTOR SHALL UPDATE PANEL DIRECTORY OF ALL EXISTING PANELBOARDS.
- CIRCUIT NUMBERS ARE FOR GROUPING INTENT AND FOR REFERENCE ONLY. CONTRACTOR TO UTILIZE CIRCUITS THAT BECOME AVAILABLE FROM DEMOLITION.

**KEY NOTES:**

- NEW VAV WIRE TO EXISTING VAV CIRCUITS
- SEE PART PLAN 2 IN THIS DRAWING FOR IT EQUIPMENT REFERENCE.

**CIRCUIT DESIGNATION**

CIRCUIT PREFIX	PANEL
A#	L1AA (EX)
B#	L1AB (EX)
C#	L1AC (EX)

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

