POWER SINGLE LINE DIAGRAM SYMBOLS

###	CKT BREAKER, '###' INDICATES TRIP SETTING, '#' INDICATES NUMBER OF POLES
###	DRAW-OUT CKT BREAKER, '###' INDICATES TRIP SETTING, '#' INDICATES NUMBER OF POLES
###	FUSED SWITCH, '###' INDICATES TRIP SETTING, '#' INDICATES NUMBER OF POLES
	ENCLOSED CIRCUIT BREAKER
	ENCLOSED NON-FUSED SWITCH
	ENCLOSED FUSED SWITCH
K	KIRK KEY INTERLOCK
A	AUTOMATIC TRANSFER
SS	SOLID STATE, ELECTRONIC ADJUSTABLE TRIP
GFP	GROUND FAULT PROTECTION
SPD	SURGE PROTECTIVE DEVICE
DMM	DIGITAL MULTIMETER
M	UTILITY METER
A M	AUTOMATIC/MANUAL TRANSFER SWITCH
ATS BYPASS ISOLATION	AUTOMATIC TRANSFER SWITCH, WITH BYPASS ISOLATION
	TRANSFORMER
	GENERATOR
PANEL NAME	PANELBOARD
	PAD MOUNTED TRANSFORMER
	GROUND
	POTENTIAL TRANSFORMER
	CURRENT TRANSFORMER

POWER DISTRIBUTION AND SMALL POWER

	20A DUPLEX RECEPTACLE, WALL MOUNTED SUBSCRIPT 'USB' INDICATES: WITH TYPE A & C OUTLET		20A DOUBLE DUPLEX RECEPTACLE, WALL MOUNTED
	20A DUPLEX RECEPTACLE, ABOVE BACKSPLASH OF CABINET, COUNTERTOP OR SINK		20A DOUBLE DUPLEX RECEPTACLE, ABOVE BACKSPLASH OF CABINET, COUNTERTOP OR SINK
	20A DUPLEX RECEPTACLE, FLUSH MTD IN CEILING		20A DOUBLE DUPLEX RECEPTACLE, FLUSH MOUNTED IN CEILING
	20A HALF SWITCHED DUPLEX RECEPTACLE, WALL MOUNTED		SIMPLEX RECEPTACLE, WALL MOUNTED
TYPE	SPECIAL PURPOSE RECEPTACLE, WALL MOUNTED. NEMA CONFIGURATION AS NOTED ON PLANS	TYPE	SPECIAL PURPOSE RECEPTACLE, CEILING MOUNTED NEMA CONFIGURATION AS NOTED ON PLANS
	SHADING REPRESENTS RECEPTACLE ON LIFE SAFETY BRANCH		SHADING REPRESENTS RECEPTACLE ON UPS BRANCH
	SHADING REPRESENTS RECEPTACLE ON NON-LIFE SAFETY BRANCH		SHADING REPRESENTS RECEPTACLE WITH ISOLATED GROUND
	DISCONNECT SWITCH, REFER TO EQUIPMENT CONNECTION SCHEDULE FOR DISCONNECT TYPE, UON		
	COMBINATION MOTOR STARTER DISCONNECT		
	MOTOR STARTER		
	VARIABLE FREQUENCY DRIVE		
X	DIRECT CONNECTION, WALL MOUNTED. SUBSCRIPT 'X' INDICATES UNIQUE IDENTIFIER, REFER TO EQUIPMENT CONNECTION SCHEDULE.		
X	DIRECT CONNECTION, CEILING MOUNTED. SUBSCRIPT 'X' INDICATES UNIQUE IDENTIFIER, REFER TO EQUIPMENT CONNECTION SCHEDULE.		
X	MOTOR, SUBSCRIPT 'X' DENOTES MOTOR DESIGNATION, REFER TO EQUIPMENT CONNECTION SCHEDULE		
	GROUND BUS BAR		
F	FURNITURE OUTLET, WALL MOUNTED		
	PANELBOARD		
	TRANSFORMER		
X	FLOOR BOX, DUPLEX RECEPTACLE	FB#	SPECIAL FLOORBOX, '#' INDICATES UNIQUE FLOOR BOX TYPE
X	FLOOR BOX, DOUBLE DUPLEX RECPT		

X — RECEPTACLE TYPE
12 — NUMBER INDICATES BRANCH CIRCUIT NUMBER

X	FLOOR BOX, DUPLEX RECEPTACLE	X	FLOOR BOX, DOUBLE DUPLEX RECPT
X	FLOOR BOX, COMBINATION POWER/COMMUNICATIONS OUTLET	X	FLOOR BOX, COMBINATION POWER/COMMUNICATIONS/AV OUTLET
FB#	SPECIAL FLOORBOX, '#' INDICATES UNIQUE FLOOR BOX TYPE		

X — TYPE
12 — NUMBER INDICATES BRANCH CIRCUIT NUMBER

FLOOR BOX, CONFIGURATION AS INDICATED, FLUSH MOUNTED, UNLESS OTHERWISE NOTED.
NOTE: FOR ABOVE DEVICES, SUBSCRIPT 'X' INDICATES:

P- PEDESTAL MOUNTED FL- FLUSH MOUNTED
PT- POKE THROUGH S- SURFACE MOUNTED

	JUNCTION BOX, FLUSH MTD IN FLOOR

LIGHTING, LIGHITNG SWITCHING & CONTROLS

AF10 — UPPER CASE LETTERS INDICATE LIGHTING FIXTURE TYPE
7ab — NUMBER INDICATES CIRCUIT NUMBER, LOWER CASE LETTER INDICATES SWITCHLEG

	LIGHTING FIXTURE ON NORMAL BRANCH POWER - CEILING MOUNTED		LIGHTING FIXTURE ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST - CEILING MOUNTED
	LIGHTING FIXTURE ON NORMAL BRANCH POWER - WALL MOUNTED		LIGHTING FIXTURE ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST - WALL MOUNTED
	STRIP LIGHTING FIXTURE ON NORMAL BRANCH POWER		STRIP LIGHTING FIXTURE ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST
	PENDANT LINEAR FIXTURE ON NORMAL BRANCH POWER		PENDANT LINEAR FIXTURE ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST
	DOWNLIGHT LIGHTING FIXTURE ON NORMAL BRANCH POWER - RECESSED MOUNTED		DOWNLIGHT LIGHTING FIXTURE ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST - RECESSED MOUNTED
	PENDANT LIGHTING FIXTURE ON NORMAL BRANCH POWER		PENDANT LIGHTING FIXTURE ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST
	WALL WASH LIGHTING FIXTURE ON NORMAL BRANCH POWER - ARROW INDICATES DIRECTION OF BEAM		WALL WASH LIGHTING FIXTURE ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST - ARROW INDICATES DIRECTION OF BEAM
	WALL SCONCE LIGHTING FIXTURE ON NORMAL BRANCH POWER - WALL MOUNTED		WALL SCONCE LIGHTING FIXTURE ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST - WALL MOUNTED
	BOLLARD LIGHT FIXTURE ON NORMAL BRANCH POWER		BOLLARD ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST
	SITE LIGHTING SINGLE HEAD ON NORMAL BRANCH POWER - POLE MOUNTED		SITE LIGHTING SINGLE HEAD ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST - POLE MOUNTED
	SITE LIGHTING DUAL HEAD ON NORMAL BRANCH POWER - POLE MOUNTED		SITE LIGHTING DUAL HEAD ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST - POLE MOUNTED
	EXIT SIGN - SINGLE FACE - CEILING MOUNTED		EXIT SIGN - DUAL FACE - CEILING MOUNTED
	EXIT SIGN - SINGLE FACE - WALL MOUNTED		EXIT SIGN - DUAL FACE - WALL MOUNTED
LL	LOW LEVEL EXIT SIGN - SINGLE FACE - WALL OR DOOR MOUNTED		SINGLE REMOTE EMERGENCY LIGHT - WALL MOUNTED
	DUAL HEAD EMERGENCY LIGHT WITH INTEGRAL BATTERY PACK - WALL MOUNTED		DUAL REMOTE EMERGENCY LIGHT - WALL MOUNTED

X ab — SPST SWITCH, WALL MOUNTED. 'ab' INDICATES INDIVIDUAL GANGED SWITCHES AND ASSOCIATED SWITCH LEGS CONTROLLED, SUBSCRIPT 'X' INDICATES:

2 - DOUBLE POLE
3 - THREE WAY
4 - FOUR WAY
D - WALL BOX DIMMER
K - KEY OPERATED
LV - LOW VOLTAGE
P - PILOT LIGHT
T - WALL BOX TIMER
WP - WEATHER PROOF

OS	OCCUPANCY SENSOR, CEILING MOUNTED
OS	OCCUPANCY SENSOR, WALL MOUNTED
VS	VACANCY SENSOR, CEILING MOUNTED
VS	VACANCY SENSOR, WALL MOUNTED
DCP X	DIMMING CONTROL PANEL, SUBSCRIPT 'X' INDICATES TYPE
DIM X	DIMMING CONTROL STATION, SUBSCRIPT 'X' INDICATES TYPE OR UNIQUE IDENTIFIER
LCP	LIGHTING CONTROL PANEL
	SHUNT TRIP PUSH BUTTON
TC X	TIME CLOCK, SUBSCRIPT 'X' INDICATES UNIQUE IDENTIFIER
DS X	DAYLIGHT SENSOR, CEILING MOUNTED
PC X	PHOTOCELL

FIRE ALARM SYSTEM

	FIRE ALARM STROBE, WALL MOUNTED		FIRE ALARM STROBE, CEILING MOUNTED.
	FIRE ALARM HORN, WALL MOUNTED		FIRE ALARM HORN, CEILING MOUNTED
	FIRE ALARM HORN/STROBE, WALL MOUNTED		FIRE ALARM HORN/STROBE, CEILING MOUNTED
SP	FIRE ALARM SPEAKER, WALL MOUNTED	SP	FIRE ALARM SPEAKER, CEILING MOUNTED
SP	FIRE ALARM SPEAKER/STROBE, WALL MOUNTED	SP	FIRE ALARM SPEAKER/STROBE, CEILING MOUNTED
	FIRE ALARM BELL, WALL MOUNTED		FIRE ALARM PULL STATION
	HEAT DETECTOR, WALL MOUNTED		HEAT DETECTOR, CEILING MOUNTED
	SMOKE DETECTOR, WALL MOUNTED		SMOKE DETECTOR, CEILING MOUNTED
	SMOKE DETECTOR, DUCT MOUNTED		FIRE/SMOKE DAMPER
	CARBON MONOXIDE DETECTOR		SMOKE DAMPER
FF	FIREFIGHTERS TELEPHONE OUTLET	SA	SMOKE ALARM
	REMOTE INIDICATOR LIGHT	SA CO	COMBINATION SMOKE ALARM AND CARBON MONOXIDE DETECTOR
FACP	FIRE ALARM CONTROL PANEL	TPS	TAMPER SWITCH
FAA	FIRE ALARM REMOTE ANNUNCIATOR PANEL	RT	REMOTE TEST STATION
DGP	DATA GATHERING PANEL	FS	FLOW SWITCH
FATC	FIRE ALARM TERMINAL CABINET	SV	SUPERVISORY VALVE
FATP	FIRE ALARM TRANSPONDER PANEL		ELECTRO-MAGNETIC DOOR HOLDER

TAGS AND CALL OUT SYMBOLS

1 / E3.1	SECTION CALLOUT SECTION DESIGNATION SHEET NUMBER
A / E3.1	DETAIL CALLOUT DETAIL DESIGNATION SHEET NUMBER
#	REVISION CALLOUT
#	KEYNOTE CALLOUT

SECURITY SYSTEM

DEVICE LEGEND

DEVICE TAG — AAA M/V — MOUNTING TAG / SECONDARY ATTRIBUTE

ALL SECURITY SYSTEM DEVICES ARE WALL MOUNTED UNLESS OTHERWISE INDICATED BY MOUNTING TAG

ACP	ACCESS CONTROL PANEL	ADO	AUTO DOOR OPERATOR
ALM	ALARM DEVICE	CR	CARD READER (HID® MULTICLASS SE® RP40)
PR	CARD READER (HID® MULTICLASS SE® RPK40)	PT	QR BARCODE CODE CARD READER (AXIS A8207)
DC	DOOR CONTACT	DCR	DOOR CONTROLLER
EL	ELECTRIFIED LOCKSET	EP	ELECTRIFIED PANIC HARDWARE
ES	ELECTRIC STRIKE	GB	GLASS BREAK DETECTOR
IC	INTERCOM (MODEL: COMMEND ID5 TD) DUR : OUTDOOR DURESS STATION (MODEL: CODE BLUE CB 2-a OR EQUIVALENT) MASTER STATION (MODEL: MODEL: COMMEND ID8 TD)	ID	INTRUSION DETECTION DEVICE
KP	KEYPAD	KEY	KEY SWITCH
ML	MAGNETIC LOCK	MS	MOTION SENSOR
PB	PANIC BUTTON	PNL	PANEL / CONTROLLER
PP	COLUMN SWITCH W/HANDS FREE PUSH BUTTON	PX	POWER TRANSFER
LFE	LOW FREQUENCY EXCITER	REX	REQUEST TO EXIT DEVICE
	INFRARED READER	SEN	ALARM SENSOR
RDU	REMOTE DISPLAY UNIT	SPS	SECURITY SYSTEM POWER SUPPLY
LAR	LOCAL AREA RECEIVER	SVR	SERVER
	DIRECTIONAL PASSIVE TAG DETECTOR	WKS	SECURITY WORKSTATION
IRC	INFRARED CURTAIN		CCTV CAMERA, WALL-MOUNTED
RFR	RF READER		CCTV CAMERA, CEILING-MOUNTED CA1: AXIS P3267-LV DOME CA2: AXIS P3267-LVE DOME CA3: AXIS P4707-PLVE CA4: AXIS P3737-PLE
RFM	RF READER MASTER	AA	'PRESS FOR EMERGENCY ASSISTANCE' SWITCH
RFLR	RF LONG RANGE READER	AS	'ASSISTANCE REQUESTED' LED ANNUNCIATOR WITH SOUNDER
RFER	RF ETHERNET READER	OL	OCCUPANCY LAMP

NOTE:
1. PROVIDE A 1/2" CONDUIT ROUTED BETWEEN THE BACK BOX AND THE NEAREST CABLE PATHWAY, UNO.
2. PANIC BUTTON SHALL BE SURFACE-MOUNTED TO UNDERSIDE OF COUNTER/DESK. MOUNT THE BACK BOX DIRECTLY BELOW THE COUNTER/DESK AND PROVIDE SURFACE-MOUNTED RACEWAY FROM THE BACK BOX TO THE PANIC BUTTON LOCATION.

DEMOLITION

< R >	EXISTING TO BE REMOVED
< RL >	EXISTING TO BE RELOCATED
< EX >	EXISTING TO REMAIN
< NL >	EXISTING - NEW LOCATION
	DEMOLITION CONDUIT
	DEMOLITION EQUIPMENT
	EXISTING TO REMAIN CONDUIT
	EXISTING TO REMAIN EQUIPMENT
	RELOCATED / NEW CONDUIT
	RELOCATED / NEW EQUIPMENT

NURSE CALL SYSTEM

ZLS	NURSE CALL CORRIDOR ZONE LIGHT
	NURSE CALL ROOM DOME LIGHT
	NURSE CALL CONSOLE
	NURSE CALL ANNUNCIATOR
A	NURSE CALL ASSET TRACKING
CB	NURSE CALL CODE BLUE STATION
CBA	NURSE CALL CODE BLUE STATION WITH STAFF ASSIST BUTTON
EPS	NURSE CALL EMERGENCY PULL STATION
ESS	NURSE CALL EMERGENCY PULL SHOWER STATION
GTW	NURSE CALL GATEWAY
M	NURSE CALL MASTER STATION
NDS	NURSE CALL DUTY STATION
P	NURSE CALL PATIENT STATION
SA	NURSE CALL STAFF ASSIST STATION
SS	NURSE CALL STAFF STATION

ABBREVIATIONS

A	ANALOG	MCB	MAIN CIRCUIT BREAKER
AFCI	ARC FAULT CIRCUIT INTERRUPTOR	MCC	MOTOR CONTROL CENTER
AFF	ABOVE FINISHED FLOOR	MD	MOTORIZED DAMPER
ATS	AUTOMATIC TRANSFER SWITCH	MH	MOUNTING HEIGHT
CK	CLOCK HANGER	NC	NORMALLY CLOSED
CL	CEILING MOUNTED	NO	NORMALLY OPEN
EMT	ELECTRICAL METALLIC TUBING	OC	OVER THE COUNTER
EP	EXPLOSION PROOF	PTZ	PAN, TILT, ZOOM
F	FURNITURE OR MILLWORK MOUNTED	ST	SHUNT TRIP
FL	FLOOR MOUNTED	TP	TAMPER PROOF
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	WP	WEATHER PROOF
GFI	GROUND FAULT INTERRUPTER		

CIRCUITING

BLDG-E1MDPHA.10 — CIRCUIT NUMBER; PANEL DESIGNATION
3#12,#12G,21mmC — CONDUIT SIZE; GROUND CONDUCTOR QUANTITY AND SIZE; CIRCUIT CONDUCTOR QUANTITY AND SIZE

TELECOMMUNICATIONS SYSTEM

	WALL MOUNT IP PHONE VOICE DATA OUTLET		FLOOR MOUNT IP PHONE VOICE DATA OUTLET
	WALL MOUNT DATA OUTLET		FLOOR MOUNT DATA OUTLET
	WALL MOUNT DATA/ IP PHONE VOICE DATA OUTLET		FLOOR MOUNT DATA/IP PHONE VOICE DATA OUTLET
	CEILING MOUNT IP PHONE VOICE DATA OUTLET	WAP	WIRELESS ACCESS POINT WITH CEILING MOUNT DATA (WAPS SUPPLIED BY UHN AND INSTALLED BY THIS CONTRACTOR)
	CEILING MOUNT DATA OUTLET		
	CEILING MOUNT DATA/IP PHONE VOICE DATA OUTLET	JB	JUNCTION BOX FOR AV SYSTEM

DEVICE LEGEND

X — NUMBER OF DATA JACKS
Y — NUMBER OF VOICE JACKS
X/Y — NUMBER OF DATA/VOICE JACKS

NO SUBSCRIPT = (1) DATA/VOICE

MOUNTING:
OUTLET MOUNTING HEIGHTS TO BE COORDINATED WITH INTERIOR DESIGNER DURING DD PHASE

PUBLIC ADDRESS SYSTEM

DEVICE LEGEND

DEVICE TAG — AAA M — MOUNTING TAG

ALL PUBLIC ADDRESS SYSTEM DEVICES ARE WALL MOUNTED UNLESS OTHERWISE INDICATED BY MOUNTING TAG

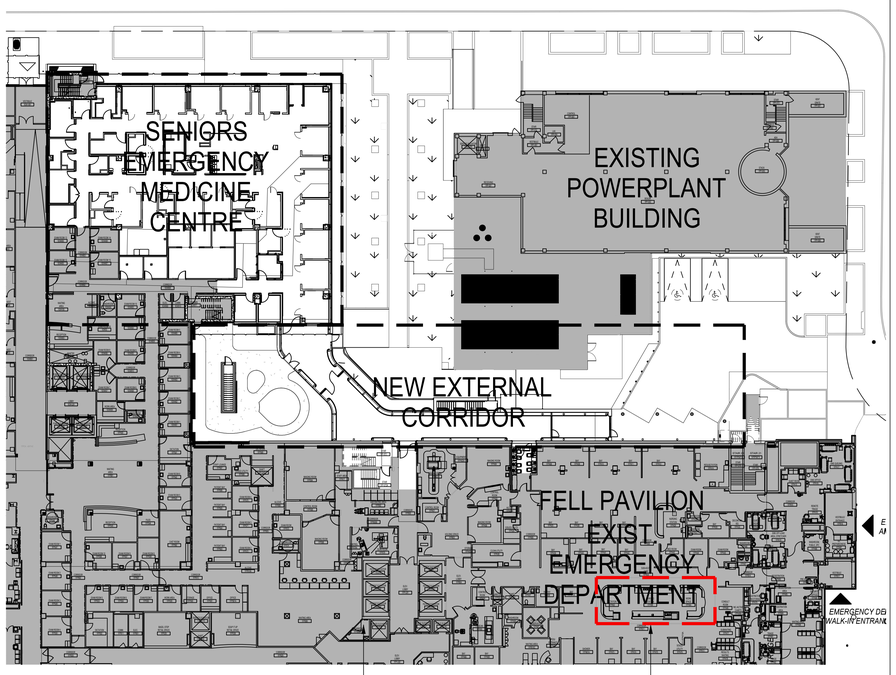
PA	PAGING SPEAKERS OR HORN	PGS	PAGING STATION

CLOCK SYSTEM

	CLOCK
EC	ELAPS CLOCK
T R	TRANSMITTER/RECEIVER ANTENNA

NOTES
1. PROVIDE A 4-11/16" SQUARE BY 2-1/8" DEEP BACK BOX WITH A SINGLE GANG REDUCTION RING AT EACH LOCATION, UNO.
2. PROVIDE A 1" CONDUIT ROUTED BETWEEN THE BACK BOX AND THE NEAREST CABLE PATHWAY, UNO.

LEONARD AVENUE



1 / E001 OVERALL PLAN
SCALE: 1:250

DRAWING LIST

	DRAWING NAME	SCALE
E-001	LEGEND, ABBREVIATION AND DRAWING LIST	N.T.S
E-002	GENERAL NOTE AND LUMINARIES SCHEDULES	N.T.S
E-003	SEPARATE PRICE PLAN	N.T.S
E-101	LEVEL 1 FLOOR PLAN - DEMO - LIGHTING	AS SHOWN
E-102	LEVEL 1 FLOOR PLAN - DEMO - ELECTRICAL	AS SHOWN
E-103	LEVEL 1 FLOOR PLAN - DEMO - POWER SYSTEMS	AS SHOWN
E-201	LEVEL 1 FLOOR PLAN - NEW WORK - LIGHTING	AS SHOWN
E-202	LEVEL 1 FLOOR PLAN - NEW WORK - ELECTRICAL AND POWER SYSTEMS	AS SHOWN
E-203	LEVEL 1 FLOOR PLAN - NEW WORK - EXAM ROOMS	AS SHOWN
E-204	BASEMENT - ELECTRICAL LAYOUT	AS SHOWN
E-205	PENTHOUSE & ROOF FLOOR PLAN - ELECTRICAL LAYOUT	AS SHOWN
E-301	BELOW GRADE FLOOR - ELECTRICAL LAYOUT	AS SHOWN
E-302	GROUND FLOOR PLAN - LIGHTING LAYOUT	AS SHOWN
E-303	GROUND FLOOR PLAN - POWER & SYSTEMS LAYOUT	AS SHOWN
E-401	ELECTRICAL DETAILS AND PANEL SCHEDULES	N.T.S
E-402	MECHANICAL EQUIPMENT SCHEDULES	N.T.S
E-501	ELECTRICAL RISER DIAGRAM	N.T.S
C-E101	GROUND FLOOR OVERALL PLAN - ELECTRICAL LAYOUT	AS SHOWN
C-E201	LEVEL 3 FLOOR PLAN - ELECTRICAL LAYOUT	AS SHOWN
C-E202	LEVEL 8 ROOF - ELECTRICAL LAYOUT & ENLARGED PLAN	AS SHOWN
C-E301	ELECTRICAL RISER DIAGRAM AND LUMINARIE SCHEDULE	AS SHOWN

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• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

PROJECT STATUS:

REVISIONS

NO	DESCRIPTION	DATE
1	Issued for Design Development Progress	2024.04.05
2	Issued for 100 DD	2024.05.10
3	Issued for 50% CD / Permit	2024.08.02
4	Issued for 90% CD	2024.09.06
5	Issued for 100% CD	2024.09.27
6	Issued for Tender	2024.10.11
7	Issued for Tender Addendum	2024.10.25
8	Issued for Tender Addendum No.5	2024.11.19

PROJECT:
UHN TWH - Seniors Emergency Medicine Centre
399 Bathurst Street, Toronto ON M5T 2S8
UHN PROJECT NO.: SAP #110022016

TITLE:
OVERALL PLAN, LEGEND, ABBREVIATION AND DRAWING LIST

PROJECT NO: MRK-23004289
CHECKED: M.S.
DRAWING NO: E-001

GENERAL NOTES

1. ALL DRAWINGS ARE DIAGRAMMATIC ONLY. THE ARRANGEMENTS OF EQUIPMENT SHOWN ARE APPROXIMATIONS ONLY AND MAY BE ALTERED BY THE ENGINEERS TO MEET THE REQUIREMENTS OF THE PROJECT. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL, EQUIPMENT CONSULTANTS' MECHANICAL AND STRUCTURAL DRAWINGS FOR INSTALLATION OF ALL EQUIPMENT AND DEVICES.
2. CONTRACTOR TO INCLUDE FOR PAYMENT OF REQUIRED PERMITS, FEES, LICENSES, CERTIFICATES OF INSPECTION ETC IF REQUIRED.
3. ALL OPENINGS, IF APPLICABLE, SHALL BE SEALED WITH APPROVED FIRE STOP MATERIAL TO MEET THE FRR OF THE ASSEMBLY. MAKE NOTE TO REFER TO ARCH DWGS . ANY FIREPROOFING MATERIAL REMOVED WILL BE REPLACED WITH A SUITABLE AND APPROVED FIREPROOFING MATERIAL AND SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS TO APPLICABLE BUILDING AND FIRE CODES.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REFINISHING OF DAMAGED BUILDING AREAS AND FINISHES AFFECTED BY THE WORK AS OUTLINED UNDER SCOPE OF WORK OF THIS PROJECT. ASSUME FULL RESPONSIBILITY FOR ALL WORKS DONE. SHOULD ANY EXISTING SYSTEM OR PROPERTY BE DAMAGED BY THE CONTRACTOR, MAKE FULL REPAIR/REPLACEMENTS WITHOUT EXTRA COST, AND TO THE SATISFACTION OF CONSULTANT AND THE OWNER.
5. CONTRACTOR IS RESPONSIBLE FOR STORAGE AND PROTECTION OF ALL EXISTING ITEMS WHICH WILL BE RELOCATED/REUSED IN THIS PROJECT.
6. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND DISTRIBUTION OF TEMPORARY POWER AND LIGHTING WITHIN THE PREMISES DURING THE CONSTRUCTION PERIOD. EXPOSED ELECTRICAL CORDS OUTSIDE THE PREMISES SHALL NOT BE PERMITTED.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL THE WORK WITH ALL OTHER TRADES, EXISTING SITE CONDITIONS, CONSULTANTS, AND THE OWNER TO AVOID INTERFERENCE WITH OTHER SERVICES. ALL WORK SHALL BE SCHEDULED AND CARRIED OUT BY THE CONTRACTOR IN A MANNER TO ENSURE CONTINUED AND NON-INTERRUPTED OPERATION OF EXISTING FACILITY.
8. CONTRACTOR SHALL IDENTIFY AND LABEL CLEARLY ALL CIRCUITS, WIRING, SERVICES, JUNCTION BOXES, PULLBOXES, DEVICES, OUTLETS AND EQUIPMENT INSTALLED AND CONNECTED UNDER THE SCOPE OF WORK OF THIS PROJECT. IDENTIFICATION SHALL BE AS PER OWNER'S REQUIREMENTS AND ALL MARKINGS SHALL BE LAMACOID TYPE. COORDINATE ALL LABELING WITH THE OWNER AND CONSULTANT.
9. NEW AND EXISTING ELECTRICAL WIRING AND CABLES EXPOSED WITHIN THE CEILING SPACES SHALL CONFORM TO THE PLENUM REQUIREMENTS OF ONTARIO BUILDING CODE SENTENCE 3.6.4.3. (1).
10. DURING CONSTRUCTION ENSURE ALL LUMINAIRES IN AND/OR OUT OF SCOPE OF WORK ARE FREE OF DUST AND DEBRIS. CONTRACTOR TO CLEAN LUMINAIRES AFFECTED BY CONSTRUCTION DUST AND/OR DEBRIS.
11. EXISTING PANEL SCHEDULE SHALL BE UPDATED UPON PROJECT COMPLETION. BREAKERS THAT ARE NOT IN USE SHALL BE SWITCHED TO THE OFF POSITION AND MARKED AS SPARE UPON PROJECT COMPLETION. WHERE EXISTING CIRCUITS ON PANELS ARE NOT AFFECTED, THOSE CIRCUITS WILL BE INCLUDED IN THE NEW PANEL DIRECTORIES WHERE PANELS HAVE BEEN AFFECTED BY THIS PROJECT. CONTRACTOR IS RESPONSIBLE FOR UPDATING ANY AND ALL PANEL DIRECTORIES ALTERED BY THE SCOPE OF WORK AND PROVIDING PRINTED COPIES IN EACH, IN ADDITION TO PROVIDING UPDATED AND NEW PANEL DIRECTORIES IN AS-BUILT DRAWINGS, SEE NOTE 15.
12. REWORK ALL EXISTING POWER SUCH THAT SURROUNDING AREAS REMAIN OPERATIONAL AND ARE NOT AFFECTED AS A RESULT OF BUILDING DEMOLITION.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE AND EXAMINING ALL CONDITION AFFECTING THE ELECTRICAL INSTALLATION. NO CONSIDERATION WILL BE GIVEN TO CLAIMS FOR EXTRA COSTS ARISING FROM FAILURE TO VISIT SITE.
14. THE WORD "PROVIDE" SHALL MEAN SUPPLY, INSTALL, CONNECT AND TEST.
15. SUBMIT 'AS-BUILT' DRAWINGS. THESE DRAWINGS SHALL RECORD ALL CHANGES TO DESIGN.
16. LUMINAIRES SHALL BEAR THE APPROPRIATE ULC LABEL FOR LOCATION, MOUNTING POSITION AND OPERATING CONDITIONS IN WHICH IT IS INSTALLED.
17. LUMINAIRES SHALL BE INSTALLED COMPLETE WITH ALL ACCESSORIES, GLASSWARE, CANOPIES, SOCKETS, REFLECTORS, OPTICS, WIRING DEVICES AND SUPPLIED WITH NEW LAMPS OF THE TYPE AND WATTAGE INDICATED ON DRAWINGS OR IN SPECIFICATIONS.
18. WALL MOUNTED LUMINAIRES AND JUNCTIONS BOXES SHALL BE RIGIDLY SUPPORTED TO STRUCTURE TO PROVIDE ADEQUATE SUPPORT DURING NORMAL OPERATION.
19. CONTRACTOR SHALL PROVIDE ADDITIONAL JUNCTION BOXES AS REQUIRED WHERE CONDUCTORS EXCEED FACTORY PROVIDED JUNCTION BOX LIMITATIONS.
20. FIRE RATED GYPSUM BOARD ENCLOSURES SHALL BE CONSTRUCTED AROUND ALL RECESSED LUMINAIRES THAT PENETRATE FIRE RATED AREAS AS DEFINED BY ARCHITECTURAL.
21. ANY ABANDONED CONDUITS AND FEEDERS SHALL NOT BE REUSED AND TO BE REMOVED WITHIN WITHIN THE AREA ARE OF RENOVATION.
22. CONTRACTOR SHALL MAINTAIN A VOLTAGE DROP OF 3% FOR ALL BRANCH CIRCUITS.
23. EXAMINATION OF SITE & DOCUMENTS
    - 23.1. PRIOR TO SUBMITTING BID, CAREFULLY EXAMINE CONDITIONS AT SITE WHICH WILL OR MAY AFFECT WORK, DRAWINGS, & SPECIFICATIONS, & BECOME FAMILIAR WITH BUILDING CONSTRUCTION, FINISHES & OTHER WORK ASSOCIATED WITH WORK IN ORDER THAT BID INCLUDES FOR EVERYTHING NECESSARY FOR COMPLETION OF WORK.
24. INTERRUPTIONS TO & SHUT-DOWNS OF EXISTING SERVICES & SYSTEMS
    - 24.1. INCLUDE FOR COSTS OF PREMIUM TIME TO PERFORM WORK DURING NIGHTS, WEEKENDS OR OTHER TIME OUTSIDE OF NORMAL WORKING HOURS, AS NECESSARY TO MAINTAIN SERVICES IN OPERATION OR WITH MINIMUM INTERRUPTIONS & TO COMPLY WITH OWNER'S REQUIREMENTS. NOTE: WORK ASSOCIATED WITH SHUT-DOWNS & INTERRUPTIONS WILL BE CARRIED OUT AS CONTINUOUS OPERATIONS TO MINIMIZE SHUT-DOWN TIME & TO REINSTATE SYSTEMS AS SOON AS POSSIBLE, &, PRIOR TO SHUT-DOWN, ENSURE MATERIALS & LABOUR REQUIRED TO COMPLETE WORK FOR WHICH SHUT-DOWN IS REQUIRED ARE AVAILABLE AT SITE. ANY REQUIRED SERVICE INTERRUPTIONS MUST BE COORDINATED WITH THE OWNER TWO WEEKS IN ADVANCE OF THE EXPECTED INTERRUPTION.
25. CUTTING, PATCHING & CORE DRILLING
    - 25.1. DO CUTTING, PATCHING & CORE DRILLING OF EXISTING BUILDING REQUIRED FOR INSTALLATION OF WORK. PERFORM CUTTING IN NEAT & TRUE FASHION, WITH PROPER TOOLS & EQUIPMENT TO OWNER'S APPROVAL. PATCHING WILL EXACTLY MATCH EXISTING FINISHES & BE PERFORMED BY TRADESMEN SKILLED IN PARTICULAR TRADE OR APPLICATION WORKED ON TO OWNER'S APPROVAL.
    - 25.2. IN FIRE RATED CONSTRUCTION, PACK & SEAL VOID BETWEEN OPENING & CONDUIT FOR LENGTH OF OPENING WITH ASBESTOS-FREE ELASTOMERIC ULC LISTED & LABELLED MATERIALS. INSTALL FIRESTOP & SMOKE SEAL MATERIALS IN ACCORDANCE TO ULC CERTIFICATION & MANUFACTURER'S REQUIREMENTS TO PROVIDE FIRESTOP RATINGS OF OPENINGS IN ACCORDANCE WITH GOVERNING BUILDING CODE REQUIREMENTS.
    - 25.3. DO NOT CUT OR DRILL EXISTING WORK WITHOUT PRIOR OWNER'S APPROVAL. IN CONSULTATION WITH OWNER & PROVIDE PROFESSIONAL STRUCTURAL ENGINEER REPORT & SIGNOFF REQUIRED FOR LOCATIONS OF ALL CORING IN SLAB, DETERMINE PRESENCE OF EXISTING SERVICES & REINFORCING RODS CONCEALED BEHIND SURFACE TO BE CUT. ENSURE THAT AREAS OF BOTH SIDES OF THE SURFACE BEING CUT ARE PROTECTED FROM DEBRIS. NOTE: ELECTRICAL CONTRACTOR WILL BE HELD RESPONSIBLE FOR DAMAGE DONE TO EXISTING BUILDING & SERVICES CAUSED BY CUTTING OR DRILLING. CAREFULLY HAND CHIESEL TO EXPOSE RE-BAR AND BURIED SERVICES AND CHIESEL OUT REQUIRED OPENINGS. NO XRAY PERMITTED FOR SLAB SCANNING.
26. DISCONNECTION, REMOVAL & RELOCATION WORK
    - 26.1. WHERE INDICATED ON DRAWINGS, & DETERMINED BY SITE VISIT, DISCONNECT & REMOVE ITEMS OF EXISTING OBSOLETE ELECTRICAL WORK & RELOCATE DEVICES. WHERE FIXTURES, SWITCHES, RECEPTACLES & OTHER DEVICES &/OR EQUIPMENT IS REMOVED, DISCONNECT AT POINT OF ELECTRICAL SUPPLY, REMOVE OBSOLETE WIRING, & MAKE SYSTEM SAFE. REVISE PANELBOARD DIRECTORIES ACCORDINGLY, IF AFFECTED BY WORK.
    - 26.2. UNLESS OTHERWISE NOTED, OBSOLETE MATERIALS WHICH ARE DISCONNECTED & ARE NOT TO BE RELOCATED OR REUSED SHALL BE REMOVED FROM SITE & DISPOSED. OBTAIN FROM OWNER, LIST OF EXISTING ITEMS TO BE CAREFULLY REMOVED & TURNED OVER TO OWNER. SAID ITEMS WILL REMAIN PROPERTY OF OWNER.
    - 26.3. PROVIDE JUNCTION BOXES, OUTLET BOXES, WIRING, PLATES, ETC., AS NECESSARY FOR COMPLETE RELOCATION OF DEVICES.
    - 26.4. WHERE EXISTING SERVICES PASS THROUGH OR ARE IN AN AREA TO SERVE ITEMS WHICH ARE TO REMAIN, MAINTAIN SERVICES. INCLUDE FOR REROUTING EXISTING SERVICES CONCEALED BEHIND FINISHES & WHICH BECOME EXPOSED DURING RENOVATION WORK, SO AS TO BE CONCEALED BEHIND FINISHES.
    - 26.5. IN AREAS WHICH ARE NOT BEING ARCHITECTURALLY RENOVATED & WHICH ELECTRICAL CONTRACTOR MUST RUN SERVICES THROUGH, BE RESPONSIBLE FOR REMOVAL & REINSTALLATION OF ARCHITECTURAL CEILING TILES, MECHANICAL EQUIPMENT, SPRINKLERS, ETC., AS REQUIRED FOR INSTALLATION OF YOUR WORK. IF THE REQUIRED ELECTRICAL WORK IS REQUIRED TO ACCOMMODATE WORK OF OTHER TRADES, AND IF REMOVAL OF EXISTING CEILINGS TILES IS NOT THE RESPONSIBILITY OF OTHERS, BE RESPONSIBLE FOR ALL WORK TO GAIN ACCESS TO THOSE DEVICES THAT NEED TO BE WORKED ON. PRIOR TO REMOVAL OF CEILING TILES OR OTHER DEVICES, INSPECT FOR DAMAGES/WORKING ORDER AND REPORT ANY DEFICIENCIES TO OWNER PRIOR TO START OF WORK. PATCH & MAKE GOOD (INCLUDING PAINTING) SURFACES TO MATCH EXISTING.
    - 26.6. COMPLY WITH THE OWNER'S LATEST WASTE MANAGEMENT GUIDELINES WITH SPECIFIC REFERENCE TO WASTE SEGREGATION AND REMOVALS.
27. HAZARDOUS MATERIALS
    - 27.1. IF AT ANY TIME DURING COURSE OF WORK ASBESTOS MATERIALS ARE ENCOUNTERED OR SUSPECTED, CEASE WORK IN AREA IN QUESTION & IMMEDIATELY REPORT, IN ACCORDANCE WITH ONTARIO REGULATION 654/85 (SECTION 7) TO CONSULTANT AND OWNER PROJECT MANAGER. DO NOT RESUME WORK IN AFFECTED AREA WITHOUT APPROVAL FROM CONSULTANT AND OWNER PROJECT MANAGER.
28. EXISTING FIRE ALARM SYSTEM WORK
    - 28.1. WHERE NOTED ON DRAWINGS, DISCONNECT & REMOVE REQUIRED DEVICES. NEW WORK TO BE AN EXTENSION OF EXISTING SYSTEM. PERFORM WORK IN ACCORDANCE WITH LATEST EDITION OF CAN/ULC-S524. SEQUENCE OF OPERATION OF NEW WORK TO FUNCTION AS EXISTING SYSTEM. UNLESS OTHERWISE NOTED, CONNECT ADDITIONAL DEVICES TO EXISTING ZONES SERVING AREA & PROVIDE WIRING OF MINIMUM NO. 16 AWG IN CONDUIT & AS PER CESC REQUIREMENTS. ALARM INITIATING CIRCUITS SHALL BE RUN IN SEPARATE CONDUITS FROM ALARM SIGNALLING CIRCUITS.
    - 28.2. DURING WORK TO THE EXISTING FIRE ALARM SYSTEM THE TIME & DURATION OF INTERRUPTION SHALL BE APPROVED BY THE OWNER & ONLY 1 ZONE SHALL BE INTERRUPTED AT ANY 1 TIME. IN ALL AREAS WHERE THE RENOVATION WORK REQUIRES SHUTDOWN OF ANY PART OF THE FIRE ALARM PROTECTION SYSTEM, PROVIDE MANUAL FIRE ALARM PROTECTION (FIRE WARDEN) BY MEANS OF SUPERVISING THE AREA AS APPROVED BY GOVERNING AUTHORITIES. AT NO TIME SHALL THE FIRE ALARM SYSTEM OR ANY 1 ZONE BE LEFT INOPERATIVE AFTER HOURS WITHOUT APPROPRIATE FIRE WATCH. PROVIDE ALL REQUIRED BYPASS WIRING & TEMPORARY WIRING AS MAY BE REQUIRED TO MAINTAIN ALL PARTS OF THE FIRE ALARM SYSTEM OPERATIVE DURING CONSTRUCTION & ALTERATIONS.
    - 28.3. PROVIDE FIRE ALARM PULL STATION AT LOCATIONS OF ELECTROMAGNETICALLY LOCKED DOORS. PULL STATIONS SHALL BE C/W AUXILIARY CONTACTS FOR CONNECTIONS TO SECURITY SYSTEM TO RELEASE MAGLOCKS UPON FIRE ALARM SYSTEM & PULL STATION ACTIVATION. PROVIDE WIRING & CONDUIT & REQUIRED INTERCONNECTIONS TO SECURITY SYSTEM. CO-ORDINATE WORK WITH SECURITY SYSTEM CONTRACTOR. PROVIDE OBC COMPLIANT MESSAGE SIGNAGE WITH "PULLSTATION FOR EMERGENCY EXIT", ADJACENT PULL STATION.
    - 28.4. WHEN FIRE ALARM SYSTEM WORK IS COMPLETE & READY FOR ACCEPTANCE, PROVIDE & ARRANGE FOR INDEPENDENT TESTING COMPANY VPOND AS APPROVED BY THE OWNER – EXISTING FIRE ALARM MAINTENANCE CONTRACTOR TO INSPECT, TEST & CERTIFY EQUIPMENT, INCLUDING INITIATING DEVICES, SIGNALING DEVICES, CONTROL DEVICES & WIRING. CONDUCT WORK IN ACCORDANCE WITH LATEST EDITIONS OF CAN/ULC-S536 & S537. TESTS TO BE CONDUCTED IN PRESENCE OF OWNER &/OR CONSULTANT. CERTIFY SYSTEM AND PROVIDE 3 COPIES OF SIGNED VERIFICATION REPORT.
    - 28.5. THE TESTING COMPANIES MUST EMPLOY TECHNICIANS CERTIFIED BY CANADIAN FIRE ALARM ASSOCIATION &/OR ONTARIO FIRE MARSHALL, AS APPLICABLE.
    - 28.6. CONTRACTOR TO COORDINATE WITH EXISTING FIRE ALARM PROVIDER FOR WORK REQUIRED WITHIN SCOPE OF WORK.
    - 28.7. REFER TO ARCHITECTURAL DRAWINGS A004 FOR THE SEPARATE PRICE PLAN.
29. All RECEPTACLES TO BE 5-20R HOSPITAL GRADE IN THIS PROJECT UNLESS SPECIFIED.

LIGHT LEVEL REQUIREMENT

ROOM TYPE	TARGET LIGHT LEVEL
CORRIDOR	500LUX (GENERAL LEVEL)
EXAM ROOM	500LUX (GENERAL LEVEL) EXAM MODE :1000LUX (PATIENT BED LEVEL)
OFFICE	500LUX (TASK LEVEL)
STORAGE AREA	200LUX (GENERAL LEVEL)
WASHROOM	200LUX (GENERAL LEVEL)
STAIR	150LUX (GENERAL LEVEL)

NOTES:
1. CONTRACTOR SHALL SUBMIT THE PHOTOMETRIC FOR APPROVAL.

1 / E002 LIGHT LEVEL REQUIREMENT
SCALE: N.T.S.

LUMINAIRE SCHEDULE

TYPE	BASE MANUFACTURER (AS SPECIFIED)	CATALOGUE NUMBER	CEILING MOUNTED: SURFACE	CEILING MOUNTED: RECESSED	CEILING MOUNTED: SUSPENDED	WALL MOUNTED: SURFACE	WALL MOUNTED: RECESSED	WALL MOUNTED: BRACKET	UNDER-CABINET	WATTAGE	COLOUR TEMP.	VOLTAGE: 120V	VOLTAGE: 347V	REMARKS
A1	PEERLESS ELECTRIC	SDL-3-1ACF-14G		●							3500K	●		COMPLETE WITH ALL NECESSARY MOUNTING ACCESSORIES.
A2	METALUMEN	S6-1LTUN-4-MB-SA-L3-1-T-1-90		●						6.1W/FT	3500K	●		COMPLETE WITH ALL NECESSARY MOUNTING ACCESSORIES.
A3	LIFESHIELD	OBX-C-14-G-O-S-PCH/OCD-DA-1-9-35-L040-ED-U		●						33W	3500K	●		COMPLETE WITH ALL NECESSARY MOUNTING ACCESSORIES.
A4	LIFESHIELD	SAME AS A3 WITH 1"X4" SIZE		●						33W	3500K	●		COMPLETE WITH ALL NECESSARY MOUNTING ACCESSORIES.
B1	ACOLYTE	CHDACPSWSC-RB-90-AC12065							●	311 lm/W	3500K	●		FIXTURE LENGTH AS SHOWN ON LAYOUT COMPLETE WITH ALL NECESSARY MOUNTING ACCESSORIES.
B2	COLUMBIA LIGHTING	MPS-4-9-35-ML-F-W-E-U	●							31.6W	3500K	●		COMPLETE WITH ALL NECESSARY MOUNTING ACCESSORIES.
C1	AMICO LIGHTS CORPS	L-LUN-120-AMB-01					●				AMBER	●		COMPLETE WITH ALL NECESSARY MOUNTING ACCESSORIES.
D1	AMICO LIGHTS CORPS	L-SDM-TW-120-A1E1-LED35 (AMBIENT & EXAM)		●						40W (AMBIENT) 30W (EXAM)	TUNABLE WHITE	●		COMPLETE WITH ALL NECESSARY MOUNTING ACCESSORIES.
D2	AMICO LIGHTS CORPS	L-SDM-TW-120-A1E1-LED35 (AMBIENT ONLY)		●						40W (AMBIENT)	TUNABLE WHITE	●		COMPLETE WITH ALL NECESSARY MOUNTING ACCESSORIES.
D3	PEELESS-ELECTRIC	LFR-4RD-M-15L35K8XW-DM1_LFR-4RD-T-S TUNABLE		●						20.5W	TUNABLE WHITE	●		COMPLETE WITH ALL NECESSARY MOUNTING ACCESSORIES.
D3A	PEELESS-ELECTRIC	SAME AS D3 BUT 2" SIZE		●							TUNABLE WHITE	●		COMPLETE WITH ALL NECESSARY MOUNTING ACCESSORIES.
D4	AMICO LIGHTS CORPS	L-SKY-4-120-TW-1/2 (AMBIENT, EXAM, READING)		●						20.5W	TUNABLE WHITE	●		COMPLETE WITH ALL NECESSARY MOUNTING ACCESSORIES.
L1	PEERLESS-ELECTRIC	SL-14G-40-TW-12R-CT-W-MV		●							TUNABLE WHITE	●		COMPLETE WITH ALL NECESSARY MOUNTING ACCESSORIES.
L2	ACCLAIM LIGHTING	F2M-226-XAXN				●				6W/m	TUNABLE WHITE	●		COMPLETE WITH ALL NECESSARY MOUNTING ACCESSORIES.
L3	AMICO LIGHTS CORPS	L-SDM-120-A1E1-L30-B-G-LVD		●						30W	TUNABLE WHITE	●		COMPLETE WITH ALL NECESSARY MOUNTING ACCESSORIES.
L4	METALUMEN	RM4-DOD-1L27UN-2MB-AM-LX1500-FT-1C-T-4-90		●						30W	TUNABLE WHITE	●		3090LUMEN OUTPUT COMPLETE WITH ALL NECESSARY MOUNTING ACCESSORIES.
L5	LITECONTROL	4L-NG-D-08-SOF-C1-2765T-D125-D01-1C-UNV		●						10.2W/FT	TUNABLE WHITE	●		COMPLETE WITH ALL NECESSARY MOUNTING ACCESSORIES.
L6	LITECONTROL	SAME AS L5 BUT 4' LENGTH		●						10.2W/FT	TUNABLE WHITE	●		COMPLETE WITH ALL NECESSARY MOUNTING ACCESSORIES. PROVIDE ALL NECESSARY ACCESSORIES, JOINING, HOUSING TO JOIN WITH L7.
L7	LITECONTROL	SAME AS L5 BUT 3' LENGTH		●						10.2W/FT	TUNABLE WHITE	●		COMPLETE WITH ALL NECESSARY MOUNTING ACCESSORIES. PROVIDE ALL NECESSARY ACCESSORIES, JOINING, HOUSING TO JOIN WITH L6.
E1	ALPHABET	NU4-RD-20LM-40K-90-20D-CL-BK-BK-120V-DIM10		●						17W	TUNABLE WHITE	●		COMPLETE WITH ALL NECESSARY MOUNTING ACCESSORIES.
E2	ALPHABET	NU3-RD-10LM-40K-90-20D-DL-BK-BK-120V-DIM10		●						9W	4000K	●		COMPLETE WITH ALL NECESSARY MOUNTING ACCESSORIES.
F1	KIM LIGHTING	RN-D-8-10-4K9-S-DL-UNV-BLS		●							4000K	●		FIXTURE LENGTH AS SHOWN ON LAYOUT. COMPLETE WITH ALL NECESSARY MOUNTING ACCESSORIES. PROVIDE ALL NECESSARY ACCESSORIES, JOINING, HOUSING TO JOIN WITH F1.
F2	LITECONTROL	WS2-DW-D-08-SOF-C1-2765T-D030-D01-1C-UNV	●							2.6W/FT	TUNABLE WHITE	●		FIXTURE LENGTH AS SHOWN ON LAYOUT COMPLETE WITH ALL NECESSARY MOUNTING ACCESSORIES.
W1	CURRENT	VPW1-24L-10-3K7-3-UNV-BLT						●		10W	4000K			COMPLETE WITH ALL NECESSARY MOUNTING ACCESSORIES.
X1	EMERG-LITE	EA-3-A-ATN	●			●				2.5W		●		PICTOGRAM EXIT SIGN C/W EXTRUDED ALUMINUM HOUSING AND FACE PLATES AND WHITE LED LIGHT SOURCE. CEILING OR WALL MOUNTED WITH SINGLE OR DOUBLE FACE, WITH OR WITHOUT ARROWS AS SHOWN ON DRAWINGS. COMPLETE WITH ALL NECESSARY MOUNTING ACCESSORIES.
Z1	LANDSCAPE FIXTURE													ELECTRICAL TO SUPPLY AND INSTALL LIGHTING FIXTURE AS SPECIFIED BY LANDSCAPE DESIGNER. PLEASE REFER TO LANDSCAPE DRAWING FOR THE DETAILS.
BU1	LUMACELL	RGS1082LD1				●				2.5W		●		REMOTE HEAD WITH BUILT-IN 30 MINUTES BATTERY UNIT BU1, 120V AC INPUT, 6V OUTPUT, 108W WATTAGE

NOTES:

1. ALL FINISHES, FLANGE AND PLASTER COLOURS TO BE CONFIRMED WITH ARCHITECT/DESIGNER PRIOR TO ORDERING LUMINAIRES.
2. ALL LUMINAIRES SHALL BE CSA APPROVED.
3. CONTRACTOR TO PROVIDE MOUNTING ACCESSORIES AND HARDWARE TO SUIT CEILING AND WALL FINISHES.
4. PROVIDE APPROVED EQUAL FOR ENGINEER'S REVIEW DURING SHOP DRAWINGS REVIEW.
5. PROVIDE SUITABLE STEP DOWN TRANSFORMER FOR ANY LOW VOLTAGE LIGHTING AS REQUIRED.
6. TUNABLE WHITE COLOR TEMPERATURE RANGE FROM 2700K TO 6500K, 2 DRIVERS TO CONTROL POWER AND COLOR TEMPERATURE.
7. TUNABLE WHITE FIXTURE CCT SHALL BE CONTROLLED AUTOMATICALLY. PER DEFAULT AUTOMATIC CCT CURVE, FIXTURE CCT SHALL BEGIN RAMPING FROM 2700 K STARTING 60 MINUTES BEFORE SUNRISE, COMPLETING THE RAMP UP TO 4000 K 120 MINUTES AFTER SUNRISE. FIXTURE CCT SHALL BEGIN RAMPING DOWN FROM 4000 K 120 MINUTES BEFORE SUNSET, COMPLETING THE RAMP DOWN TO 2700 K 60 MINUTES AFTER SUNSET. THE RAMP UP AND RAMP DOWN SHALL EACH CONSIST OF THE OPTIMAL NUMBER OF DISCRETE STEPS NEEDED TO ACHIEVE THE DEFAULT AUTOMATIC CCT CURVE. EACH FADE DURATION SHALL LAST 15 MINUTES. EXACT SETTING SHALL BE VERIFIED WITH USER BEFORE PROGRAMMING ON SITE.

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• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

PROJECT STATUS:

REVISIONS

NO	DESCRIPTION	DATE
1	Issued for Design Development Progress	2024.04.05
2	Issued for 100 DD	2024.05.10
3	Issued for 50% CD / Permit	2024.08.02
4	Issued for 90% CD	2024.09.06
5	Issued for 100% CD	2024.09.27
6	Issued for Tender	2024.10.11
7	Issued for Tender Addendum	2024.10.25
8	Issued for Tender Addendum No.2	2024.11.01
9	Issued for Tender Addendum No.5	2024.11.19

PROJECT:
UHN TWH - Seniors Emergency Medicine Centre
399 Bathurst Street, Toronto ON M5T 2S8
UHN PROJECT NO.: SAP #110022016

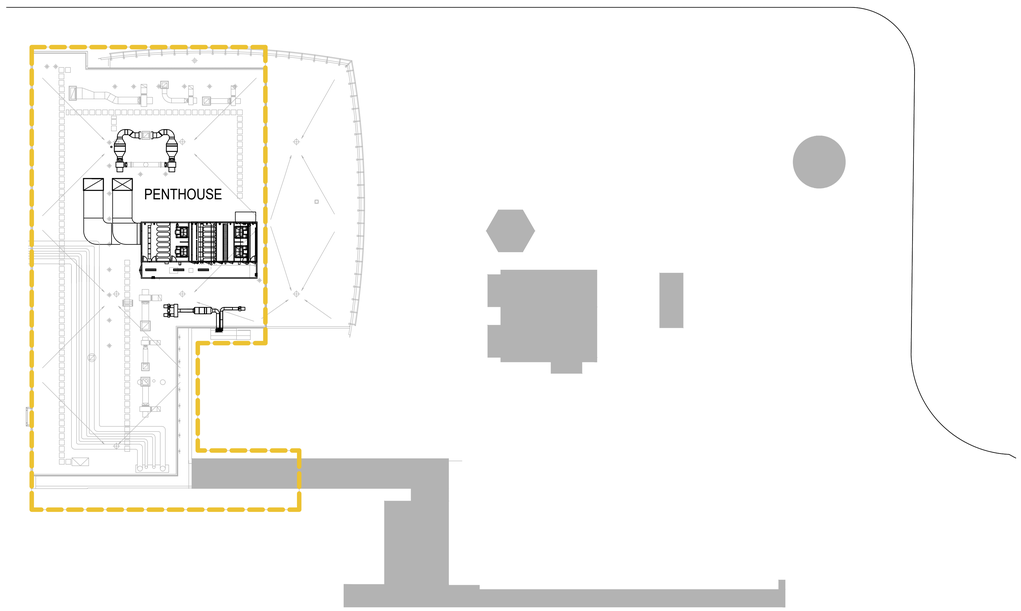
TITLE:
GENERAL NOTES AND LUMINARIES SCHEDULES

PROJECT NO: MRK-23004289
CHECKED: M.S.
DRAWING NO: E-002

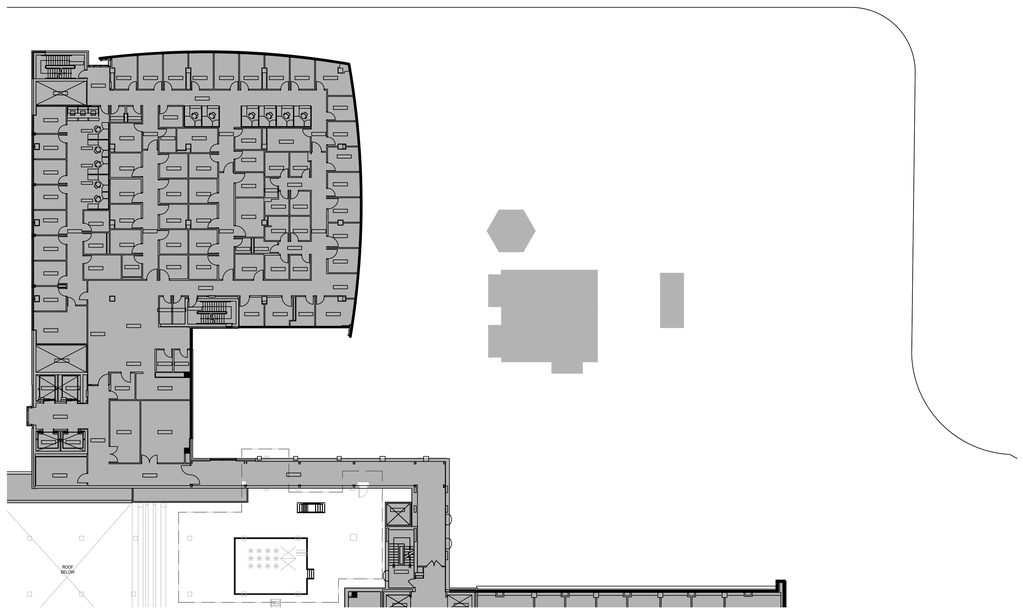
GENERAL NOTES:
1. THIS DRAWING IS FOR REFERENCE ONLY. PLEASE REFER TO ARCHITECTURAL DRAWING A004 FOR EXACT SEPARATE PRICE PLAN.

LEGEND - SEPERATE PRICE

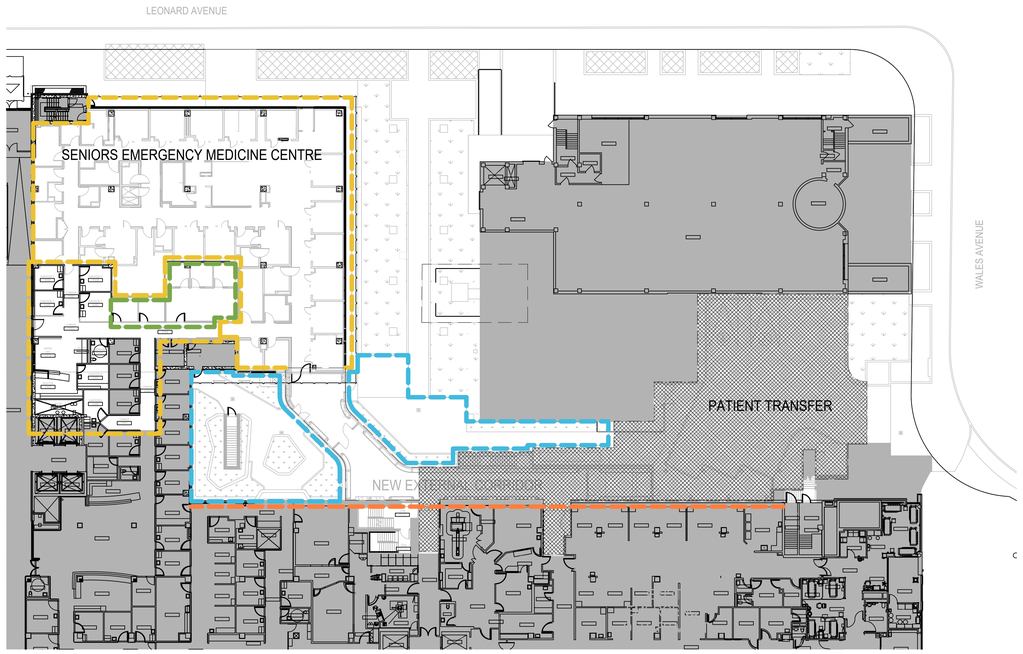
- PATIENT TRANSFER
- FELL REMEDIATION WATERPROOFING
- SAI TOUCHDOWN DAY AREA
- BELOW GRADE CRAWL SPACE
- COURTYARD LANDSCAPING - IRRIGATION & SNOW MELT
- SENIOR EMERGENCY MEDICINE CENTRE & CORRIDOR & CHILLER



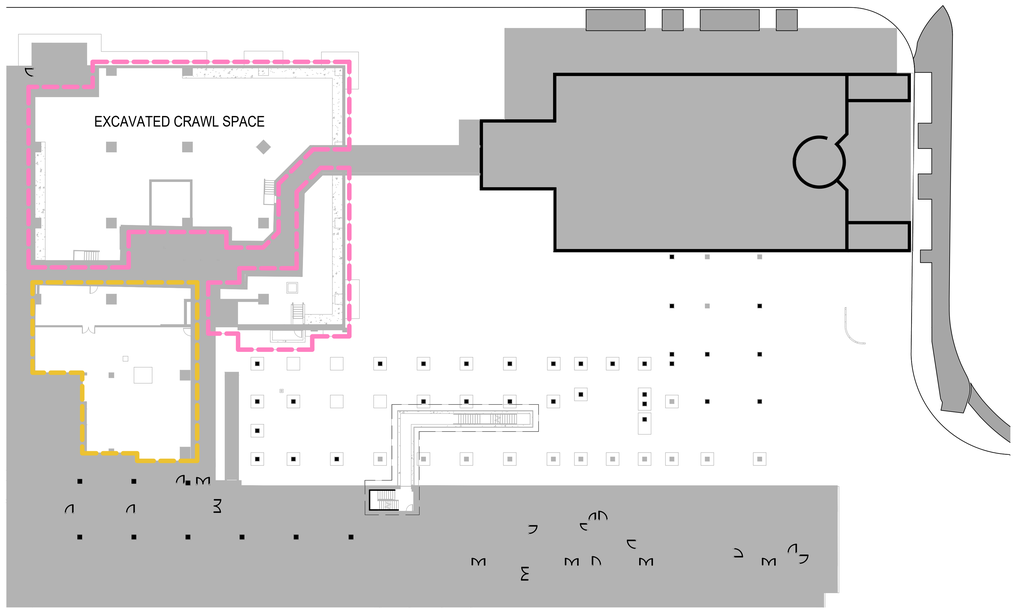
4 Separate Price - Level 10
1 : 250



3 Separate Price - Level 8
1 : 250



2 Separate Price - Level 1
1 : 250



1 Separate Price - Basement Plan
1 : 250

NOTE: SEPRATE SCOPE IDENTIFICATION DRAWINGS PREPARED BY ARCH.

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PROJECT STATUS:

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NO	DESCRIPTION	DATE
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3	Issued for 50% CD / Permit	2024.08.02
4	Issued for 90% CD	2024.09.06
5	Issued for 100% CD	2024.09.27
6	Issued for Tender	2024.10.11
7	Issued for Tender Addendum	2024.10.25
8	Issued for Tender Addendum No.5	2024.11.19

PROJECT:
UHN TWH - Seniors Emergency Medicine Centre
399 Bathurst Street, Toronto ON M5T 2S8
UHN PROJECT NO.: SAP #110022016

TITLE:
SEPARATE PRICE PLAN

PROJECT NO: MRK-23004289
CHECKED: M.S.
DRAWING NO: E-003

1 LEVEL 1 FLOOR PLAN - DEMO- LIGHTING
1 : 50

GENERAL NOTES:

1. ALL SERVICES SHOWN ARE DIAGRAMMATIC ONLY. THE ARRANGEMENTS OF EQUIPMENT SHOWN ARE APPROXIMATE AND EXACT LOCATION AND QUANTITY SHALL BE VERIFIED ON-SITE.

2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. ALL AREAS OF CONFLICT SHALL BE BROUGHT TO THE ATTENTION OF THE CONSULTANT PRIOR TO COMMENCING WORK.

3. ALL EQUIPMENT AND DEVICES ON THIS DRAWING ARE EXISTING TO BE DISCONNECTED AND REMOVED OR RELOCATED UNLESS NOTED OTHERWISE. CUT BACK AND REMOVE CONDUIT AND WIRING BACK TO THE SOURCE PANEL. ELECTRICAL CONTRACTOR TO NOTE THAT THE LAYOUTS AND DEVICES SHOWN ARE FROM AS-BUILT DRAWINGS AVAILABLE AT THE TIME OF DRAFTING AND NOT ALL DEVICES ARE SHOWN. ELECTRICAL CONTRACTOR TO SITE VERIFY EXACT QUANTITY OF DEVICES TO BE DEMOLISHED AND PERFORM DEMOLITION WORK ACCORDINGLY.

4. FOLLOWING DEMOLITION AND REMOVAL OF EXISTING CEILINGS, THE CONTRACTOR SHALL REMOVE ALL EXISTING REDUNDANT AND UN-USED LINE VOLTAGE AND LOW VOLTAGE WIRING. EXISTING WIRING THAT IS REQUIRED TO REMAIN IN OPERATION SHALL BE PROPERLY FASTENED/SUSPENDED FROM THE CEILING. ANY EXISTING JUNCTION BOXES WITHOUT COVERS SHALL BE PROVIDED WITH SUITABLE COVER PLATES.

5. ELECTRICAL CONTRACTOR TO ENSURE ALL ELECTRICAL, LIFE SAFETY SERVICES AND SERVICES FOR EXISTING EQUIPMENT THAT ARE REQUIRED TO REMAIN IN SERVICE SHALL REMAIN OPERATIONAL DURING ENTIRE CONSTRUCTION.

6. WHERE EQUIPMENT OR DEVICES ARE REMOVED, CUT BACK AND REMOVE CONDUIT AND WIRING BACK TO SOURCE PANEL.

7. WHERE REMOVED EQUIPMENT AFFECTS THE OPERATION OF EXISTING EQUIPMENT TO REMAIN, THE CONTRACTOR SHALL REPLACE/EXTEND BRANCH WIRING AS REQUIRED TO ENSURE CONTINUITY OF OPERATION OF REMAINING EQUIPMENT.

8. THE CONTRACTOR SHALL BE AWARE THAT NOT ALL EXISTING EQUIPMENT AND DEVICES REQUIRED TO BE REMOVED ARE NECESSARILY INDICATED ON THIS PLAN. THE CONTRACTOR SHALL STILL BE RESPONSIBLE FOR REMOVING ALL SUCH EQUIPMENT INCLUDING BUT NOT LIMITED TO WIRING AND CONDUITS AS REQUIRED TO FACILITATE THE COMPLETE DEMOLITION.

9. ELECTRICAL CONTRACTOR TO ENGAGE THE BASE BUILDING FIRE ALARM CONTRACTOR FOR ANY FIRE ALARM WORK WITHIN THE SCOPE OF THIS PROJECT.

10. SITE VERIFY EXISTING CUT/FLOOR/SLAB CONDUITS. REMOVE ALL CONDUITS AND CABLE BACK TO SOURCE. PROVIDE PROPER SEAL AND GRAND SMOOTH FOR THE OPENINGS.

11. FIRE ALARM
11.1. DURING WORK TO THE EXISTING FIRE ALARM SYSTEM THE TIME & DURATION OF INTERRUPTION SHALL BE APPROVED BY THE OWNER & ONLY 1 ZONE SHALL BE INTERRUPTED AT ANY 1 TIME. IN ALL AREAS WHERE THE RENOVATION WORK REQUIRES SHUTDOWN OF ANY PART OF THE FIRE ALARM PROTECTION SYSTEM, PROVIDE MANUAL FIRE ALARM PROTECTION (FIRE WARDEN) BY MEANS OF SUPERVISING THE AREA AS APPROVED BY GOVERNING AUTHORITIES. AT NO TIME SHALL THE FIRE ALARM SYSTEM OR ANY 1 ZONE BE LEFT INOPERATIVE OVERNIGHT. PROVIDE ALL REQUIRED BYPASS WIRING & TEMPORARY WIRING AS MAY BE REQUIRED TO MAINTAIN ALL PARTS OF THE FIRE ALARM SYSTEM OPERATIVE DURING CONSTRUCTION & ALTERATIONS.
11.2. ALL EXISTING FIRE ALARM ZONES TO BE MAINTAINED.
11.3. MAINTAIN EXISTING FIRE ALARM SYSTEM, PULL STATIONS, EXIT SIGNS AND EMERGENCY LIGHTS IN FULL OPERATION BEFORE INSTALLATION OF NEW DEVICES. WHERE DISRUPTION TO LIFE SAFETY SYSTEM ARE REQUIRED, PROVIDE CONTINUOUS MONITORING DURING SHUT DOWN PERIOD AND ENSURE THAT ALL SYSTEMS ARE REACTIVATED PRIOR TO LEAVING THE SITE AT THE END OF EACH WORKING DAY.
11.4. WHEN FIRE ALARM SYSTEM WORK IS COMPLETE & READY FOR ACCEPTANCE, PROVIDE & ARRANGE FOR INDEPENDENT TESTING COMPANY VIPOND AS APPROVED BY THE OWNER - EXISTING FIRE ALARM MAINTENANCE CONTRACTOR TO INSPECT, TEST & CERTIFY EQUIPMENT, INCLUDING INITIATING DEVICES, SIGNALLING DEVICES, CONTROL DEVICES & WIRING. CONDUCT WORK IN ACCORDANCE WITH LATEST EDITIONS OF CAN/ULC-S536 & S537. TESTS TO BE CONDUCTED IN PRESENCE OF OWNER &/OR CONSULTANT. CERTIFY SYSTEM AND PROVIDE 3 COPIES OF SIGNED VERIFICATION REPORT.
11.5. THE TESTING COMPANIES MUST EMPLOY TECHNICIANS CERTIFIED BY CANADIAN FIRE ALARM ASSOCIATION &/OR ONTARIO FIRE MARSHALL, AS APPLICABLE.

12. LIGHTING:
12.1. EXISTING LUMINAIRES, WIRING & CONDUITS WITHIN AREA OF DEMOLITION TO BE REMOVED BACK TO THE SOURCE AND DISCARDED. REFER TO ARCHITECTURAL DRAWINGS FOR EXISTING LAYOUT. EXACT QUANTITY TO BE CONFIRMED ON SITE BY ELECTRICAL CONTRACTOR.
12.2. EXISTING LIGHTING SWITCHES, WIRING AND CONDUITS WITHIN AREA OF DEMOLITION TO BE REMOVED BACK TO THE SOURCE AND DISCARDED.
12.3. EXISTING EXIT SIGNAGE, WIRING AND CONDUITS WITHIN AREA OF DEMOLITION TO BE REMOVED BACK TO THE SOURCE AND DISCARDED.
12.4. ELECTRICAL CONTRACTOR TO VERIFY ALL THE DEVICE LOCATION AND QUANTITY ON-SITE AND PERFORM DEMOLITION WORK ACCORDINGLY.
12.5. HATCHED AREA INDICATES EXISTING SERVICES WITHIN THIS SPACE TO REMAIN AS EXISTING AND TO BE OPERATIONAL FOR THE ENTIRE DURATION OF CONSTRUCTION.

13. POWER:
13.1. EXISTING POWER OUTLETS, FACEPLATES, BACKBOXES, WIRING AND CONDUITS (IF ANY) WITHIN AREA OF DEMOLITION TO BE REMOVED BACK TO THE SOURCE AND DISCARDED.
13.2. ELECTRICAL CONTRACTOR TO VERIFY ALL THE DEVICE LOCATION AND
13.3. ENSURE CIRCUIT INTEGRITY FOR ALL BRANCH CIRCUITS SERVING AREAS OUTSIDE OF SCOPE OF WORK. TRANSFER CIRCUITS TO EXISTING TO BE REMAINED PANELS AS REQUIRED TO KEEP OUT OF SCOPE SERVICES OPERATIONAL.

14. IT, COMMUNICATIONS, ACCESS CONTROL, PAGING AND SECURITY:
14.1. EXISTING DATA OUTLETS, JACKS, FACEPLATES, BACKBOXES, HORIZONTAL CABLING, CONDUITS AND ASSOCIATED SUPPORTING WITHIN AREA OF DEMOLITION TO BE REMOVED BACK TO THE SOURCE IN COMMS ROOM AND DISCARDED.
14.2. WIRELESS ACCESS POINT DEVICES WITHIN SCOPE OF WORK TO BE DISCONNECTED SAFELY AND RETURNED TO OWNER. CONTRACTOR TO CONFIRM EXACT LOCATION AND QUANTITY OF WIRELESS ACCESS POINTS TO BE DEMOLISHED ON-SITE.
14.3. ELECTRICAL CONTRACTOR TO VERIFY ALL THE DEVICE LOCATION AND QUANTITY ON-SITE AND PERFORM DEMOLITION WORK ACCORDINGLY.
14.4. HATCHED AREA INDICATES EXISTING SERVICES WITHIN THIS SPACE TO REMAIN AS EXISTING AND TO BE OPERATIONAL FOR THE ENTIRE DURATION OF CONSTRUCTION.
14.5. EXISTING PAGING SPEAKERS, CABLING AND CONDUITS WITHIN AREA OF DEMOLITION TO BE REMOVED BACK TO THE SOURCE. PROVIDE ALL NECESSARY TESTING TO ENSURE NOT AFFECTING EXISTING OPERATION OF OTHER FLOORS.

15. NURSE CALL:
15.1. EXISTING NURSE CALL DEVICES AND ASSOCIATED WIRING, CONDUITS ETC. WITHIN AREA OF DEMOLITION TO BE DISCONNECTED AND REMOVED BACK TO THE SOURCE.

16. MASTER CLOCK:
16.1. EXISTING MASTER CLOCK DEVICES AND ASSOCIATED WIRING, CONDUITS ETC. WITHIN AREA OF DEMOLITION TO BE DISCONNECTED AND REMOVED BACK TO THE SOURCE.

KEY NOTES:

1. SCOPE OF WORK AREA. DEVICES IN THESE AREAS ARE EXISTING TO BE REMOVED UNLESS NOTED OTHERWISE.

2. AREA CONNECTING THE EXISTING ELECTRICAL AND IT ROOMS POSSIBLE REQUIRED FOR REMOVING WIRING AND CONDUIT.
REINSTATE CEILING AFTER DEMOLITION/NEW WORK

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PROJECT STATUS:

REVISIONS

NO	DESCRIPTION	DATE
1	Issued for Design Development Progress	2024.04.05
2	Issued for 100 DD	2024.05.10
3	Issued for 50% CD / Permit	2024.08.02
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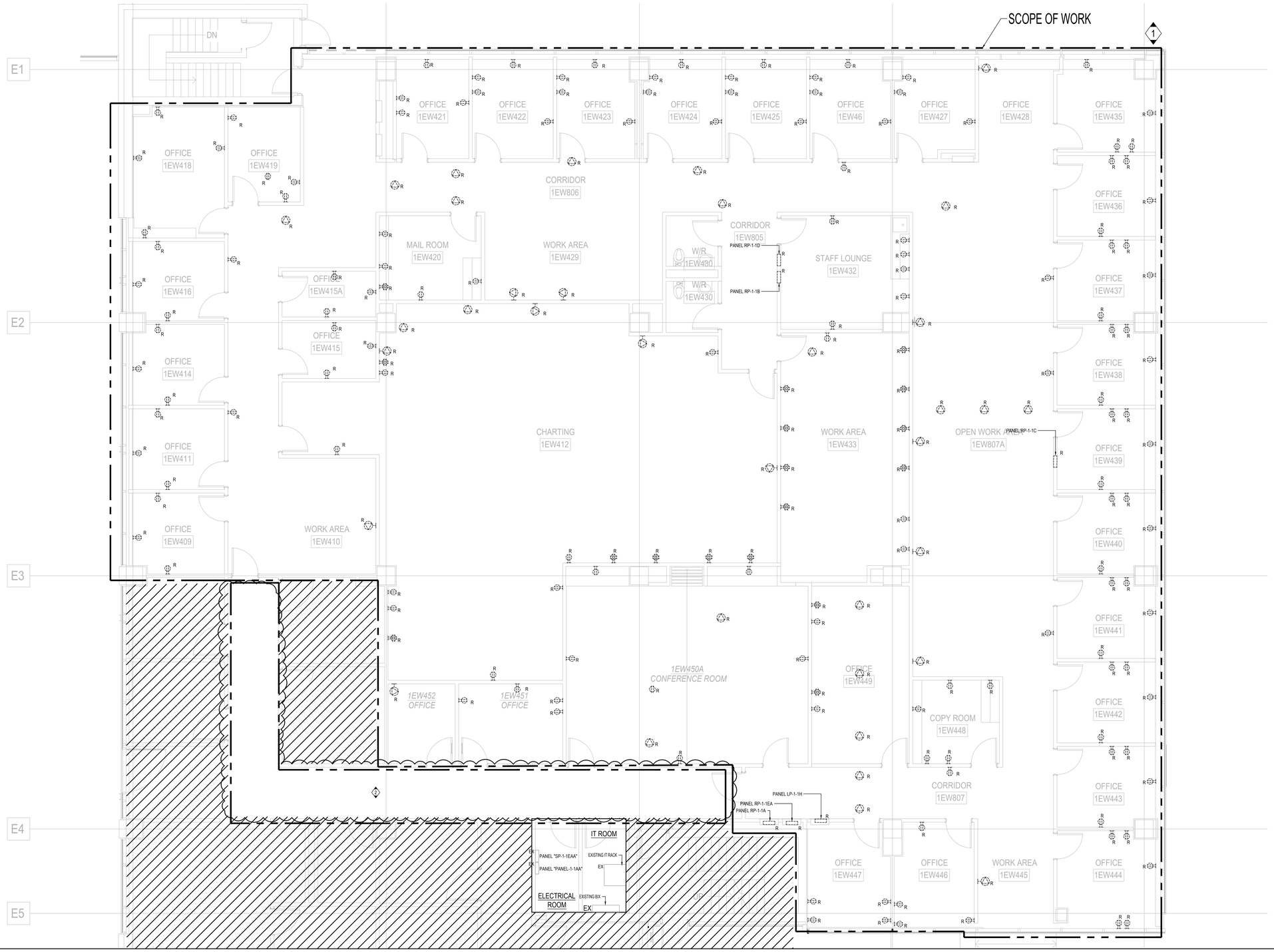
6	Issued for Tender	2024.10.11
7	Issued for Tender Addendum No.5	2024.11.19

PROJECT:
UHN TWH - Seniors Emergency Medicine Centre
399 Bathurst Street, Toronto ON M5T 2S8
UHN PROJECT NO.: SAP #110022016

TITLE:
LEVEL 1 FLOOR PLAN - DEMO - LIGHTING

PROJECT NO: MRK-23004289
CHECKED: M.S.
DRAWING NO: E-101



1 LEVEL 1 FLOOR PLAN - DEMO- ELECTRICAL
1 : 50

GENERAL NOTES:

1. ALL SERVICES SHOWN ARE DIAGRAMMATIC ONLY. THE ARRANGEMENTS OF EQUIPMENT SHOWN ARE APPROXIMATE AND EXACT LOCATION AND QUANTITY SHALL BE VERIFIED ON-SITE.

2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. ALL AREAS OF CONFLICT SHALL BE BROUGHT TO THE ATTENTION OF THE CONSULTANT PRIOR TO COMMENCING WORK.

3. ALL EQUIPMENT AND DEVICES ON THIS DRAWING ARE EXISTING TO BE DISCONNECTED AND REMOVED OR RELOCATED UNLESS NOTED OTHERWISE. CUT BACK AND REMOVE CONDUIT AND WIRING BACK TO THE SOURCE PANEL. ELECTRICAL CONTRACTOR TO NOTE THAT THE LAYOUTS AND DEVICES SHOWN ARE FROM AS-BUILT DRAWINGS AVAILABLE AT THE TIME OF DRAFTING AND NOT ALL DEVICES ARE SHOWN. ELECTRICAL CONTRACTOR TO SITE VERIFY EXACT QUANTITY OF DEVICES TO BE DEMOLISHED AND PERFORM DEMOLITION WORK ACCORDINGLY.

4. FOLLOWING DEMOLITION AND REMOVAL OF EXISTING CEILINGS, THE CONTRACTOR SHALL REMOVE ALL EXISTING REDUNDANT AND UN-USED LINE VOLTAGE AND LOW VOLTAGE WIRING. EXISTING WIRING THAT IS REQUIRED TO REMAIN IN OPERATION SHALL BE PROPERLY FASTENED/SUSPENDED FROM THE CEILING. ANY EXISTING JUNCTION BOXES WITHOUT COVERS SHALL BE PROVIDED WITH SUITABLE COVER PLATES.

5. ELECTRICAL CONTRACTOR TO ENSURE ALL ELECTRICAL, LIFE SAFETY SERVICES AND SERVICES FOR EXISTING EQUIPMENT THAT ARE REQUIRED TO REMAIN IN SERVICE SHALL REMAIN OPERATIONAL DURING ENTIRE CONSTRUCTION.

6. WHERE EQUIPMENT OR DEVICES ARE REMOVED, CUT BACK AND REMOVE CONDUIT AND WIRING BACK TO SOURCE PANEL.

7. WHERE REMOVED EQUIPMENT AFFECTS THE OPERATION OF EXISTING EQUIPMENT TO REMAIN, THE CONTRACTOR SHALL REPLACE/EXTEND BRANCH WIRING AS REQUIRED TO ENSURE CONTINUITY OF OPERATION OF REMAINING EQUIPMENT.

8. THE CONTRACTOR SHALL BE AWARE THAT NOT ALL EXISTING EQUIPMENT AND DEVICES REQUIRED TO BE REMOVED ARE NECESSARILY INDICATED ON THIS PLAN. THE CONTRACTOR SHALL STILL BE RESPONSIBLE FOR REMOVING ALL SUCH EQUIPMENT INCLUDING BUT NOT LIMITED TO WIRING AND CONDUITS AS REQUIRED TO FACILITATE THE COMPLETE DEMOLITION.

9. ELECTRICAL CONTRACTOR TO ENGAGE THE BASE BUILDING FIRE ALARM CONTRACTOR FOR ANY FIRE ALARM WORK WITHIN THE SCOPE OF THIS PROJECT.

10. SITE VERIFY EXISTING CUT/FLOOR/SLAB CONDUITS. REMOVE ALL CONDUITS AND CABLE BACK TO SOURCE. PROVIDE PROPER SEAL AND GRAND SMOOTH FOR THE OPENINGS.

11. FIRE ALARM
11.1. DURING WORK TO THE EXISTING FIRE ALARM SYSTEM THE TIME & DURATION OF INTERRUPTION SHALL BE APPROVED BY THE OWNER & ONLY 1 ZONE SHALL BE INTERRUPTED AT ANY 1 TIME. IN ALL AREAS WHERE THE RENOVATION WORK REQUIRES SHUTDOWN OF ANY PART OF THE FIRE ALARM PROTECTION SYSTEM, PROVIDE MANUAL FIRE ALARM PROTECTION (FIRE WARDEN) BY MEANS OF SUPERVISING THE AREA AS APPROVED BY GOVERNING AUTHORITIES. AT NO TIME SHALL THE FIRE ALARM SYSTEM OR ANY 1 ZONE BE LEFT INOPERATIVE OVERNIGHT. PROVIDE ALL REQUIRED BYPASS WIRING & TEMPORARY WIRING AS MAY BE REQUIRED TO MAINTAIN ALL PARTS OF THE FIRE ALARM SYSTEM OPERATIVE DURING CONSTRUCTION & ALTERATIONS.
11.2. ALL EXISTING FIRE ALARM ZONES TO BE MAINTAINED.
11.3. MAINTAIN EXISTING FIRE ALARM SYSTEM, PULL STATIONS, EXIT SIGNS AND EMERGENCY LIGHTS IN FULL OPERATION BEFORE INSTALLATION OF NEW DEVICES. WHERE DISRUPTION TO LIFE SAFETY SYSTEM ARE REQUIRED, PROVIDE CONTINUOUS MONITORING DURING SHUT DOWN PERIOD AND ENSURE THAT ALL SYSTEMS ARE REACTIVATED PRIOR TO LEAVING THE SITE AT THE END OF EACH WORKING DAY.
11.4. WHEN FIRE ALARM SYSTEM WORK IS COMPLETE & READY FOR ACCEPTANCE, PROVIDE & ARRANGE FOR INDEPENDENT TESTING COMPANY VIPONO AS APPROVED BY THE OWNER - EXISTING FIRE ALARM MAINTENANCE CONTRACTOR TO INSPECT, TEST & CERTIFY EQUIPMENT, INCLUDING INITIATING DEVICES, SIGNALLING DEVICES, CONTROL DEVICES & WIRING. CONDUCT WORK IN ACCORDANCE WITH LATEST EDITIONS OF CAN/ULC-S536 & S537. TESTS TO BE CONDUCTED IN PRESENCE OF OWNER &/OR CONSULTANT. CERTIFY SYSTEM AND PROVIDE 3 COPIES OF SIGNED VERIFICATION REPORT.
11.5. THE TESTING COMPANIES MUST EMPLOY TECHNICIANS CERTIFIED BY CANADIAN FIRE ALARM ASSOCIATION &/OR ONTARIO FIRE MARSHALL, AS APPLICABLE.

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KEY NOTES:

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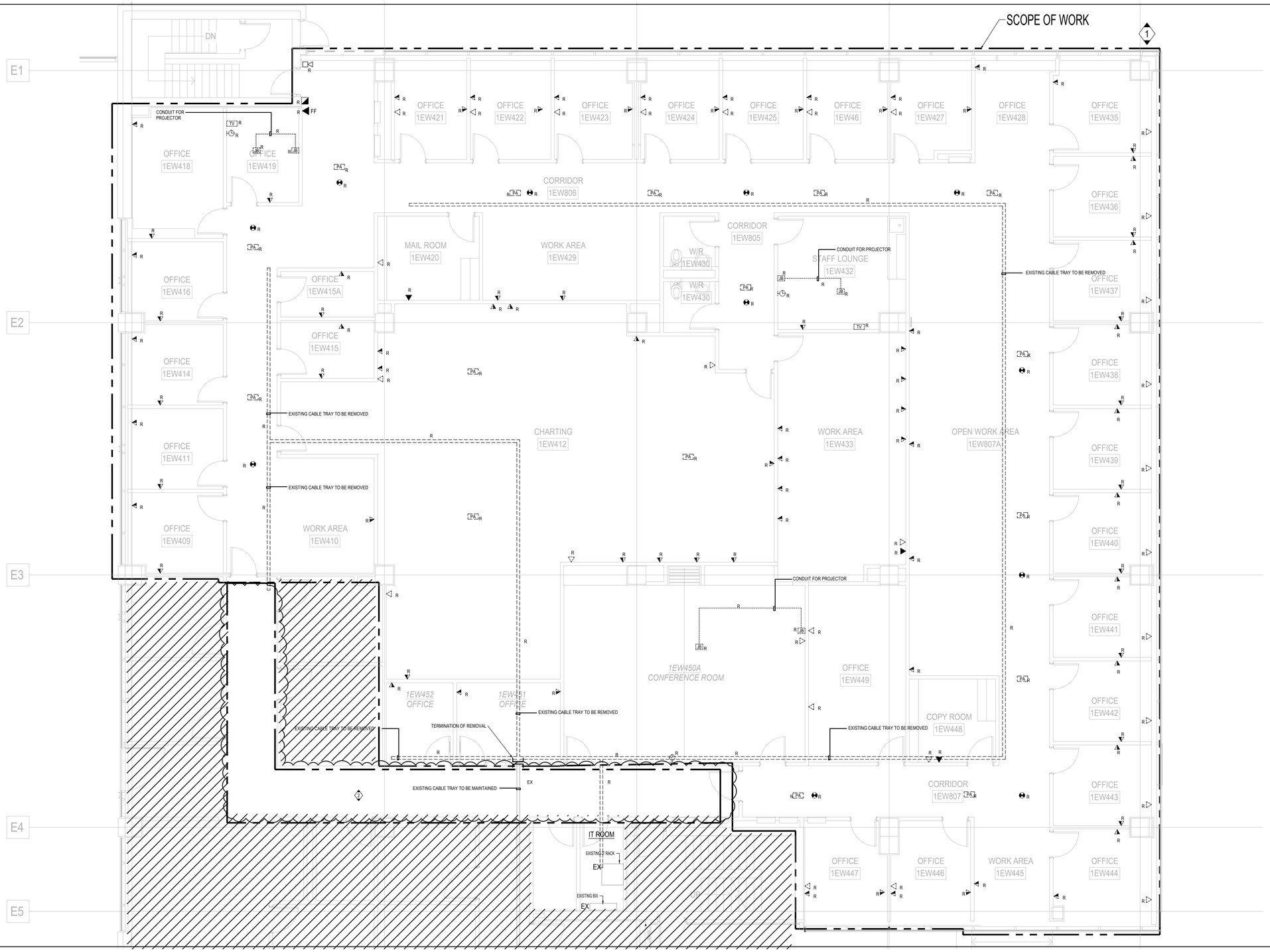
PROJECT:
UHN TWH - Seniors Emergency Medicine Centre
399 Bathurst Street, Toronto ON M5T 2S8
UHN PROJECT NO.: SAP #110022016

TITLE:
LEVEL 1 FLOOR PLAN - DEMO - ELECTRICAL

PROJECT NO: MRK-23004289
CHECKED: M.S.
DRAWING NO: E-102



1 LEVEL 1 FLOOR PLAN - DEMO- POWER SYSTEMS
1 : 50

GENERAL NOTES:

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9. ELECTRICAL CONTRACTOR TO ENGAGE THE BASE BUILDING FIRE ALARM CONTRACTOR FOR ANY FIRE ALARM WORK WITHIN THE SCOPE OF THIS PROJECT.

10. SITE VERIFY EXISTING CUT/FLOOR/SLAB CONDUITS. REMOVE ALL CONDUITS AND CABLE BACK TO SOURCE. PROVIDE PROPER SEAL AND GRAND SMOOTH FOR THE OPENINGS.

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11.4. WHEN FIRE ALARM SYSTEM WORK IS COMPLETE & READY FOR ACCEPTANCE, PROVIDE & ARRANGE FOR INDEPENDENT TESTING COMPANY VIPOND AS APPROVED BY THE OWNER - EXISTING FIRE ALARM MAINTENANCE CONTRACTOR TO INSPECT, TEST & CERTIFY EQUIPMENT, INCLUDING INITIATING DEVICES, SIGNALLING DEVICES, CONTROL DEVICES & WIRING. CONDUCT WORK IN ACCORDANCE WITH LATEST EDITIONS OF CAN/ULC-S524 & S537. TESTS TO BE CONDUCTED IN PRESENCE OF OWNER &/OR CONSULTANT. CERTIFY SYSTEM AND PROVIDE 3 COPIES OF SIGNED VERIFICATION REPORT.
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14. IT, COMMUNICATIONS, ACCESS CONTROL, PAGING AND SECURITY:
14.1. EXISTING DATA OUTLETS, JACKS, FACEPLATES, BACKBOXES, HORIZONTAL CABLING, CONDUITS AND ASSOCIATED SUPPORTING WITHIN AREA OF DEMOLITION TO BE REMOVED BACK TO THE SOURCE IN COMMS ROOM (13MC402) AND DISCARDED.
14.2. WIRELESS ACCESS POINT DEVICES WITHIN SCOPE OF WORK TO BE DISCONNECTED SAFELY AND RETURNED TO OWNER. CONTRACTOR TO CONFIRM EXACT LOCATION AND QUANTITY OF WIRELESS ACCESS POINTS TO BE DEMOLISHED ON-SITE.
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KEY NOTES:

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2. AREA CONNECTING THE EXISTING ELECTRICAL AND IT ROOMS POSSIBLE REQUIRED FOR REMOVING WIRING AND CONDUIT. REINSTATE CEILING AFTER DEMOLITION/NEW WORK

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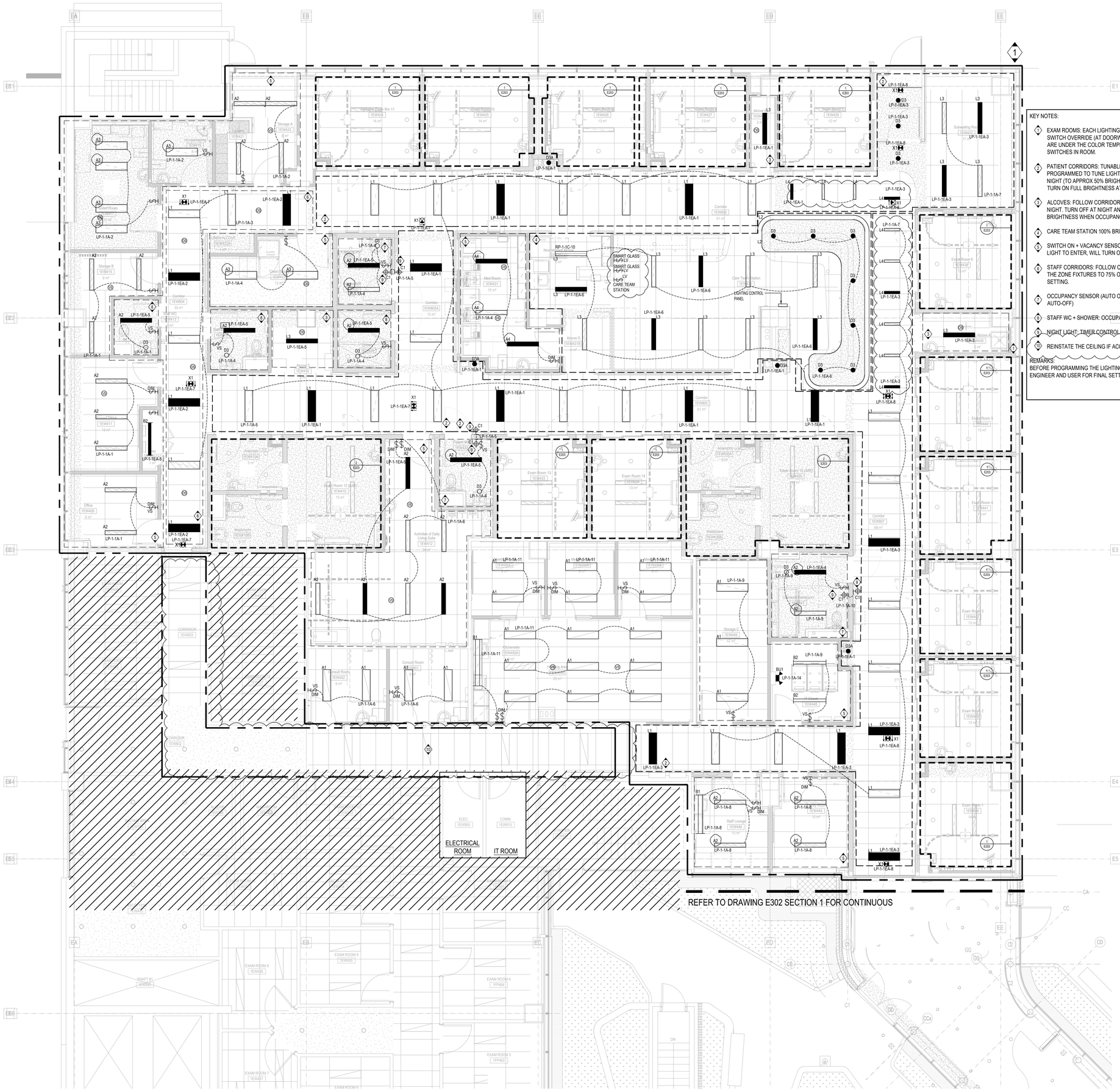
PROJECT:
UHN TWH - Seniors Emergency Medicine Centre
399 Bathurst Street, Toronto ON M5T 2S8
UHN PROJECT NO.: SAP #110022016

TITLE:
LEVEL 1 FLOOR PLAN - DEMO - POWER SYSTEM

PROJECT NO: MRK-23004289
CHECKED: M.S.
DRAWING NO: E-103



1 LEVEL 1 FLOOR PLAN - NEW WORK - HVAC PIPING
1 : 50

KEY NOTES:

1. EXAM ROOMS: EACH LIGHTING ZONE FOR EXAM ROOM, TUNABLE WHITE WITH LIGHT SWITCH OVERRIDE (AT DOORWAY AND HEAD WALL). CORRIDORS AND EXAM ROOM ARE UNDER THE COLOR TEMPERATURE AND DIMMING LEVEL UNLESS OVERRIDE BY SWITCHES IN ROOM.
2. PATIENT CORRIDORS: TUNABLE WHITE DIMMER AND WARMER IN PM, BRIGHTER IN AM. PROGRAMMED TO TUNE LIGHT THROUGHOUT THE DAY AND DIM AUTOMATICALLY AT NIGHT (TO APPROX 50% BRIGHTNESS). STAFF HAVE CONTROL AT CARE STATION TO TURN ON FULL BRIGHTNESS AT ANY TIME.
3. ALCOVES: FOLLOW CORRIDOR BRIGHTNESS AND COLOR TEMPERATURE UNTIL AT NIGHT. TURN OFF AT NIGHT AND BE ABLE TO BRING THE FIXTURES TO 75% BRIGHTNESS WHEN OCCUPANCY SENSOR IS ACTIVATED.
4. CARE TEAM STATION 100% BRIGHTNESS WITH DIMMABLE CONTROLS
5. SWITCH ON + VACANCY SENSOR; 100% BRIGHTNESS IE. STAFF WILL NEED TO TURN ON LIGHT TO ENTER, WILL TURN OFF AUTOMATICALLY WHEN EMPTY
6. STAFF CORRIDORS: FOLLOW CORRIDOR SETTING AND SENSOR BE ABLE TO BRING THE ZONE FIXTURES TO 75% OUTPUT FOR 5 MINUTES AND BACK TO CORRIDOR SETTING.
7. OCCUPANCY SENSOR (AUTO ON WHEN DOOR IS OPENED, 30-MINUTE TIMER AUTO-OFF)
8. STAFF WC + SHOWER: OCCUPANCY SENSOR (AUTO ON, 30-MINUTE TIMER AUTO-OFF)
9. NIGHT LIGHT: TIMER CONTROL - SUNSET TO SUNRISE
10. REINSTATE THE CEILING IF ACCESS TO ABOVE CEILING IS REQUIRED DURING DEMO.

REMARKS:
BEFORE PROGRAMMING THE LIGHTING SCENES ON-SITE, CONTRACTOR SHALL VERIFY WITH ENGINEER AND USER FOR FINAL SETTING AND SUIT WITHOUT COST IMPLICATION.

CLIENT:

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PROJECT STATUS:

REVISIONS

NO	DESCRIPTION	DATE
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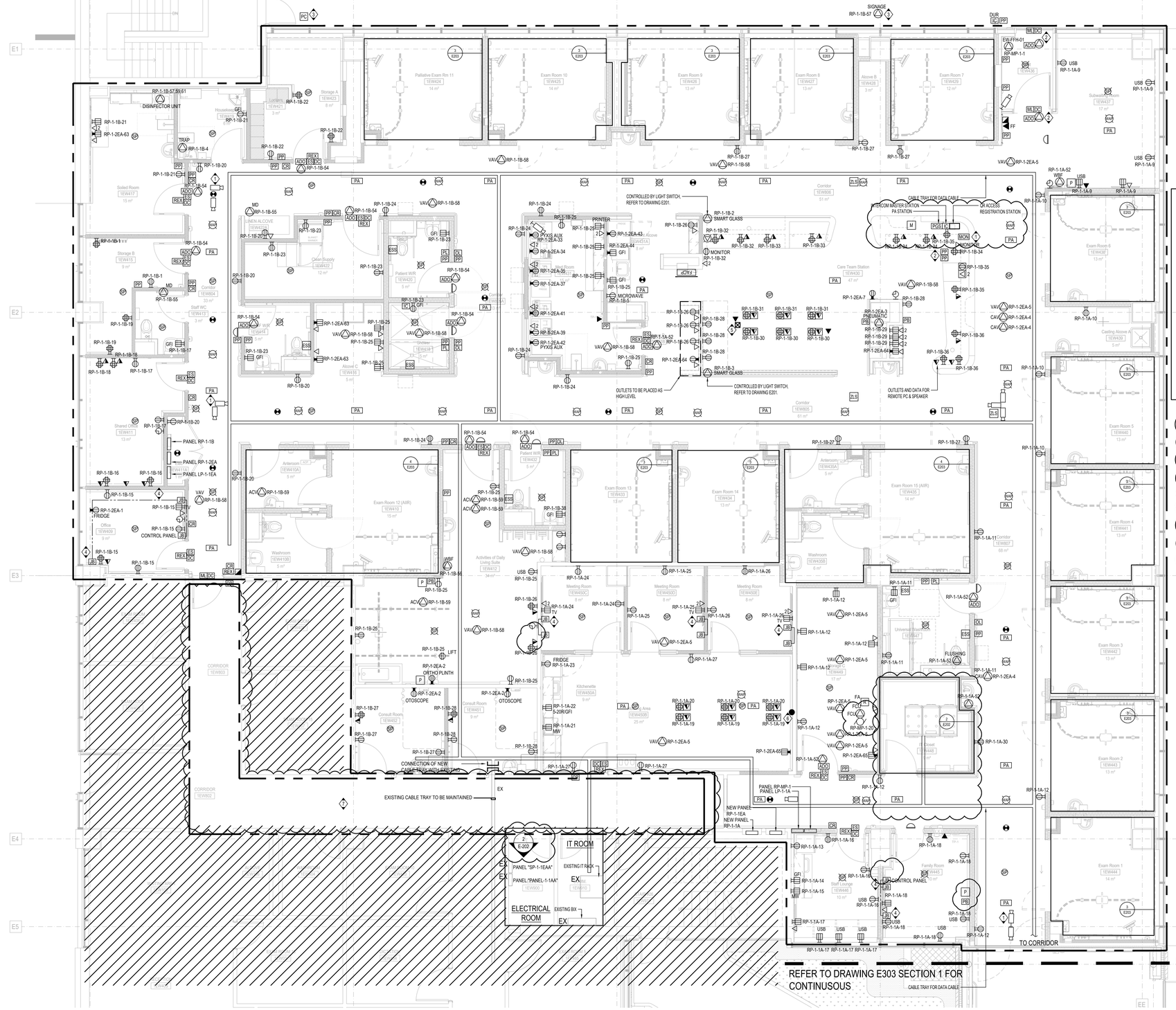
8	Issued for Tender Addendum No.2	2024.11.01
9	Issued for Tender Addendum No.5	2024.11.19

PROJECT:
UHN TWH - Seniors Emergency Medicine Centre
399 Bathurst Street, Toronto ON M5T 2S8
UHN PROJECT NO.: SAP #110022016

TITLE:
LEVEL 1 FLOOR PLAN - NEW WORK - LIGHTING LAYOUT

PROJECT NO: MRK-23004289
CHECKED: M.S.
DRAWING NO: E-201



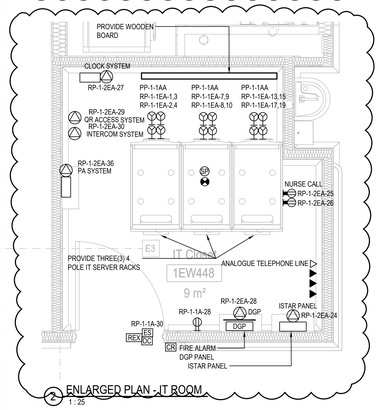
1 LEVEL 1 FLOOR PLAN - NEW WORK - HVAC PIPING
1 : 50

GENERAL NOTES:-

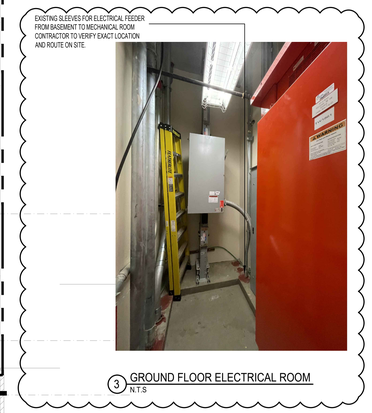
1. FOR EXISTING ALL THE DATA CABLE, PROVIDE NEW "J" HOOKS TO SUPPORT.
2. ALL NEW AND EXISTING ELECTRICAL PANELS TO BE REMAINED ARE TO BE PAINTED IN GREY AND RED. FOR NORMAL/ EMERGENCY POWER, REFER TO UHN STANDARDS FOR PAINT CODE CODE. PREP SURFACE FOR NEW FINSIH ON EXISTING PANEL AND NEW PANELS TO BE FACTORY APPLIED.
3. PROVIDE NEW LAMACOIDS FOR NEW AND EXISTING ELECTRICAL PANELS. REFER TO UHN'S STANDARDS.
4. REFER TO ARCHITECTURE DRAWINGS FOR THE TYPICAL RECEPTACLES AND DATA POINTS HEIGHT.
5. CAMERA PLACEMENT AND VIEW ANGLE TO BE CONFIRMED AND SET WITH UHN SECURITY TEAM
6. MOUNTING HEIGHT OF ELECTRICAL DEVICES/ROUGH-INS FOR AV EQUIPMENT:-
   - MONITOR :VARIES. PLEASE REFER TO ARCH DRAWING FOR DETAILS AND COORDINATE WITH UHN ON-SITE.
   - CONTROL PANEL : SAME AS LIGHTING SWITCH
   - COMPUTER STATION : REFER TO ARCHITECTURAL LAYOUT
7. REFER TO ARCHITECTURAL DRAWINGS FOR THE EXACT MOUNTING HEIGHT OF DATA OUTLETS AND RECEPTACLES

KEY NOTES:

1. THE CCTV IMAGE FOR THREE CAMERAS TO BE SHOWN ON THE MONITOR.
2. UNDER DESK RELEASE BUTTONS WITH LABELING AT NURSE STATION FOR TWO ENTRANCE DOORS. (SDC MODEL D15-2 OR EQUIVALENT)
3. PROVIDE PHOTOCELL CONTROL FOR THE CIRCUIT. LOCATION AS SHOWN.
4. CONTRACTOR SHALL PROVIDE ELECTRICAL INFRASTRUCTURE INCLUDING CONNECTIONS, CONDUITS, BACKBOXES ETC. COORDINATE WITH UHN AND AV CONTRACTOR ON-SITE FOR THE EXACT ROUGH-INS AND POWER REQUIREMENTS. REFER TO ARCH DRAWING FOR DETAILS. ALL CONDUITS FOR AV EQUIPMENT TO BE 3/4" UNLESS SPECIFIED.
5. PROVIDE POWER POLE FOR POWER AND DATA FROM CEILING AND WORK STATION. COORDINATE WITH FURNITURE SUPPLIER FOR CONNECTION DETAILS.
6. PROVIDE ELECTRICAL WHIP FOR SYSTEM FURNITURE. CONTRACTOR TO COORDINATE WITH NEW WHIP LOCATION COLUMN FRONT TO FACE. SITE VERIFY WITH UHN.
7. REINSTATE THE CEILING IF ACCESS TO ABOVE CEILING IS REQUIRED DURING DEMO.



2 ENLARGED PLAN - IT ROOM
1 : 25



3 GROUND FLOOR ELECTRICAL ROOM
N.T.S

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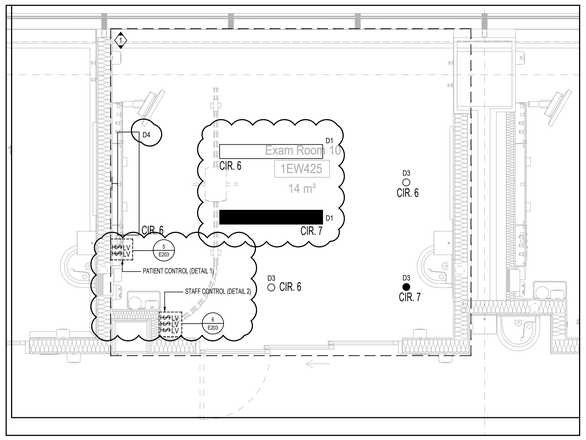
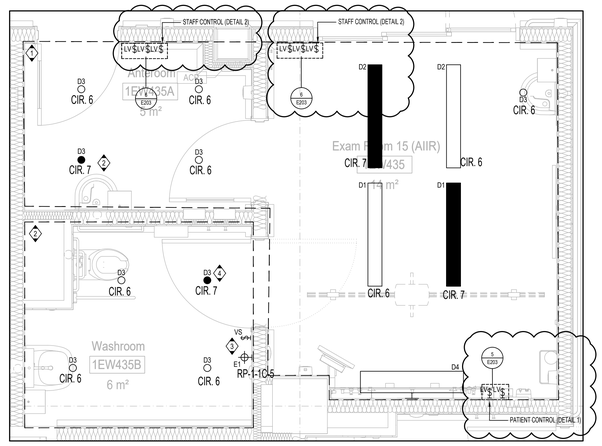
PROJECT:
UHN TWH - Seniors Emergency Medicine Centre
399 Bathurst Street, Toronto ON M5T 2S8
UHN PROJECT NO.: SAP #110022016

TITLE:
LEVEL 1 FLOOR PLAN - NEW WORK - ELECTRICAL AND POWER SYSTEMS

PROJECT NO: MRK-23004289
CHECKED: M.S.
DRAWING NO: E-202



1 LEVEL 1 FLOOR PLAN - TYPICAL EXAM ROOM - LIGHTING
1 : 25



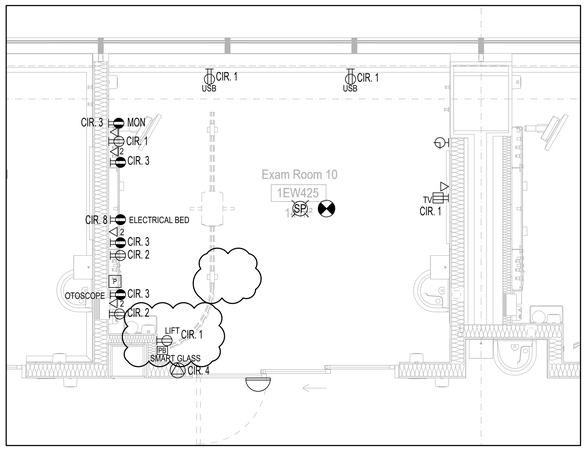
2 LEVEL 1 FLOOR PLAN - TYPICAL EXAM ROOM -LIGHTING
1 : 25

KEY NOTES:

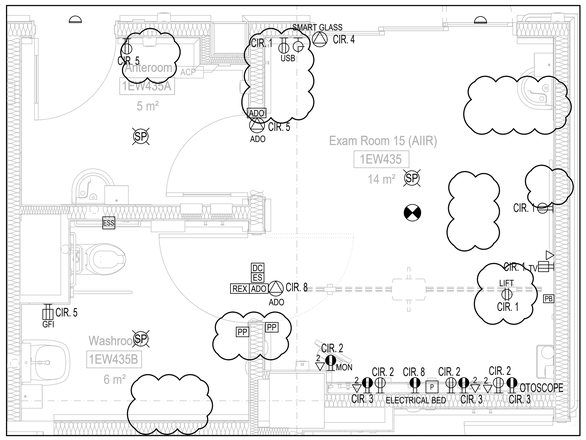
1. LIGHTING CONTROL : TUNABLE WHITE WITH LIGHT SWITCH OVERRIDE (AT DOORWAY AND HEAD WALL)
2. LIGHTING CONTROL : OCCUPANCY SENSOR (AUTO ON, 30-MINUTE TIMER AUTO-OFF)
3. LIGHTING CONTROL : NIGHT LIGHT: TIMER CONTROL, SUNSET TO SUNRISE
4. PROVIDE UL-924 RELAY FOR EMERGENCY LIGHTING.

	CIR.1	CIR.2	CIR.3	CIR.4	CIR.5	CIR.6	CIR.7	CIR.8
EXAM ROOM 1	RP-1-1B-39	RP-1-1B-46	RP-1-2EA-6	RP-1-1B-50		LP-1-1A-23	LP-1-1EA-9	RP-1-2EA-9
EXAM ROOM 2	RP-1-1B-40	RP-1-1B-46	RP-1-2EA-6	RP-1-1B-50		LP-1-1A-23	LP-1-1EA-9	RP-1-2EA-9
EXAM ROOM 3	RP-1-1B-42	RP-1-1B-47	RP-1-2EA-7	RP-1-1B-50		LP-1-1A-23	LP-1-1EA-9	RP-1-2EA-10
EXAM ROOM 4	RP-1-1B-43	RP-1-1B-47	RP-1-2EA-7	RP-1-1B-50		LP-1-1A-24	LP-1-1EA-10	RP-1-2EA-10
EXAM ROOM 5	RP-1-1B-44	RP-1-1B-48	RP-1-2EA-8	RP-1-1B-50		LP-1-1A-24	LP-1-1EA-10	RP-1-2EA-11
EXAM ROOM 6	RP-1-1B-45	RP-1-1B-48	RP-1-2EA-8	RP-1-1B-50		LP-1-1A-24	LP-1-1EA-10	RP-1-2EA-11
EXAM ROOM 7	RP-1-1A-50	RP-1-1A-60	RP-1-2EA-4	RP-1-1A-49		LP-1-1A-25	LP-1-1EA-11	RP-1-2EA-50
EXAM ROOM 8	RP-1-1A-42	RP-1-1A-60	RP-1-2EA-4	RP-1-1A-49		LP-1-1A-25	LP-1-1EA-11	RP-1-2EA-50
EXAM ROOM 9	RP-1-1A-43	RP-1-1A-61	RP-1-2EA-5	RP-1-1A-49		LP-1-1A-25	LP-1-1EA-11	RP-1-2EA-51
EXAM ROOM 10	RP-1-1A-44	RP-1-1A-61	RP-1-2EA-5	RP-1-1A-49		LP-1-1A-26	LP-1-1EA-12	RP-1-2EA-51
EXAM ROOM 11	RP-1-1A-45	RP-1-1A-62	RP-1-2EA-6	RP-1-1A-49		LP-1-1A-26	LP-1-1EA-12	RP-1-2EA-52
EXAM ROOM 12 (AIIR ROOM)	RP-1-1A-46	RP-1-1A-62	RP-1-2EA-6	RP-1-1A-34	RP-1-1A-51	LP-1-1A-26	LP-1-1EA-12	RP-1-2EA-52
EXAM ROOM 13	RP-1-1A-47	RP-1-1A-63	RP-1-2EA-6	RP-1-1A-34		LP-1-1A-27	LP-1-1EA-13	RP-1-2EA-53
EXAM ROOM 14	RP-1-1A-48	RP-1-1A-63	RP-1-2EA-6	RP-1-1A-34		LP-1-1A-27	LP-1-1EA-13	RP-1-2EA-53
EXAM ROOM 15 (AIIR ROOM)	RP-1-1A-59	RP-1-1A-64	RP-1-2EA-6	RP-1-1A-34	RP-1-1A-52	LP-1-1A-27	LP-1-1EA-13	RP-1-2EA-54

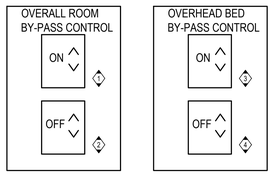
7 LIGHTING AND POWER CIRCUITS SCHEDULE
N.T.S



3 LEVEL 1 FLOOR PLAN - TYPICAL EXAM ROOM - ELECTRICAL POWER AND SYSTEMS
1 : 25



4 LEVEL 1 FLOOR PLAN - TYPICAL EXAM ROOM - ELECTRICAL POWER AND SYSTEMS
1 : 25



PANTIENT CONTROL SWITCH

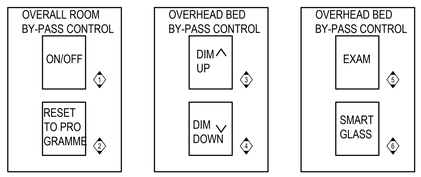
KEYNOTES:

1. BYPASS THE PROGRAM AND ALLOW TO CONTROL ALL FIXTURE OUTPUT, COLOR TEMPERATURE KEEP FOLLOW PROGRAM. SINGLE PRESS "ON", LONG PRESS "BRIGHTEN"
2. BYPASS THE PROGRAM AND ALLOW TO CONTROL ALL FIXTURE OUTPUT, COLOR TEMPERATURE KEEP FOLLOW PROGRAM. SINGLE PRESS "OFF", LONG PRESS "LOWER"
3. BYPASS THE PROGRAM AND ALLOW TO CONTROL OVERHEAD FIXTURE OUTPUT, COLOR TEMPERATURE KEEP FOLLOW PROGRAM. SINGLE PRESS "ON", LONG PRESS "BRIGHTEN"
4. BYPASS THE PROGRAM AND ALLOW TO CONTROL OVERHEAD OUTPUT, COLOR TEMPERATURE KEEP FOLLOW PROGRAM. SINGLE PRESS "OFF", LONG PRESS "DIM LOWER"

REMARK:

1. THIS IS FOR DESIGN INTENT ONLY, CONTRACTOR NEED TO PROVIDE ACTUAL SHOP DRAWINGS FOR EXACT LIGHTING SWITCH CONFIGURATION AND CONTROL FOR APPROVAL.
2. MODEL OF LIGHTING SWITCH: LUTRON PALLADIUM.
3. INCLUDE AND CONFIRM WITH USER FOR FINAL LIGHTING CONTROL BEFORE PROGRAMMING AND SUIT.
4. INCLUDE CUSTOMER ENGRAVE OR RE TITLE, SYMBOL DETAIL TO BE PROVIDED.

5 DETAIL 1 - LIGHTING SWITCH
N.T.S



STAFF CONTROL SWITCH

KEYNOTES

1. BYPASS THE PROGRAM AND ALLOW TO CONTROL ALL FIXTURE ON/OFF.
2. REST TO PROGRAM MODE.
3. BYPASS THE PROGRAM AND ALLOW TO DIM UP ALL FIXTURES OUTPUT, COLOR TEMPERATURE KEEP FOLLOW PROGRAM.
4. BYPASS THE PROGRAM AND ALLOW TO DIM DOWN ALL FIXTURES OUTPUT, COLOR TEMPERATURE KEEP FOLLOW PROGRAM.
5. BY-PASS PROGRAM AND ALL FIXTURES TO BE FULL BRIGHTNESS WITH 4000K COLOR TEMPERATURE, RESUME TO PREVIOUS SETTING AFTER 15 MINUTES. EXTEND FURTHER 15 MINUTES BY PRESSING THE BUTTON AGAIN.
6. CONTROL ON/OFF POWER CONNECTION TO SMART GLASS (PROVIDE TRANSFORMER, RELAY OR ALL NECESSARY ACCESSORIES)

REMARK:

1. THIS IS FOR DESIGN INTENT ONLY, CONTRACTOR NEED TO PROVIDE ACTUAL SHOP DRAWINGS FOR EXACT LIGHTING SWITCH CONFIGURATION AND CONTROL FOR APPROVAL.
2. MODEL OF LIGHTING SWITCH: LUTRON PALLADIUM.
3. INCLUDE AND CONFIRM WITH USER FOR FINAL LIGHTING CONTROL BEFORE PROGRAMMING AND SUIT.
4. INCLUDE CUSTOMER ENGRAVE OR RE TITLE, SYMBOL DETAIL TO BE PROVIDED.

6 DETAIL 2 - LIGHTING SWITCH
N.T.S

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PROJECT:
UHN TWH - Seniors Emergency Medicine Centre
399 Bathurst Street, Toronto ON M5T 2S8
UHN PROJECT NO.: SAP #110022016

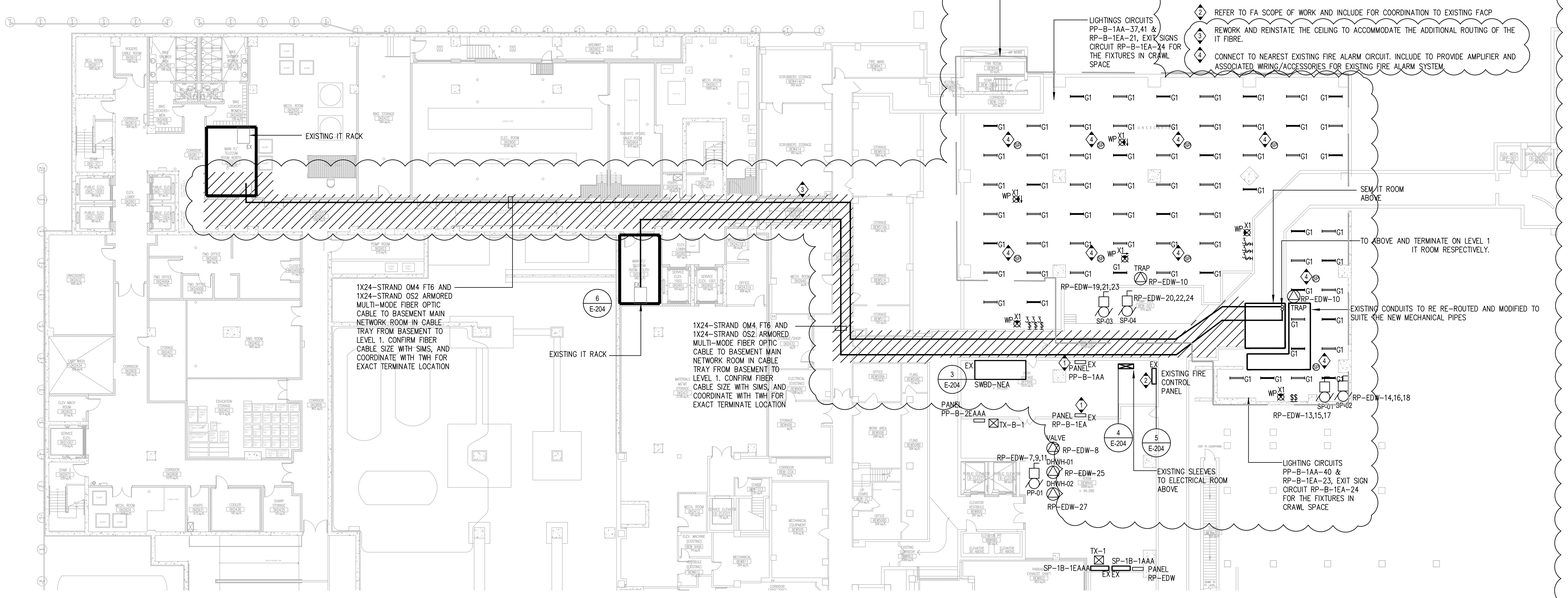
TITLE:
LEVEL 1 FLOOR PLAN - NEW WORK - EXAM ROOMS

PROJECT NO: MRK-23004289
CHECKED: M.S.
DRAWING NO: E-203

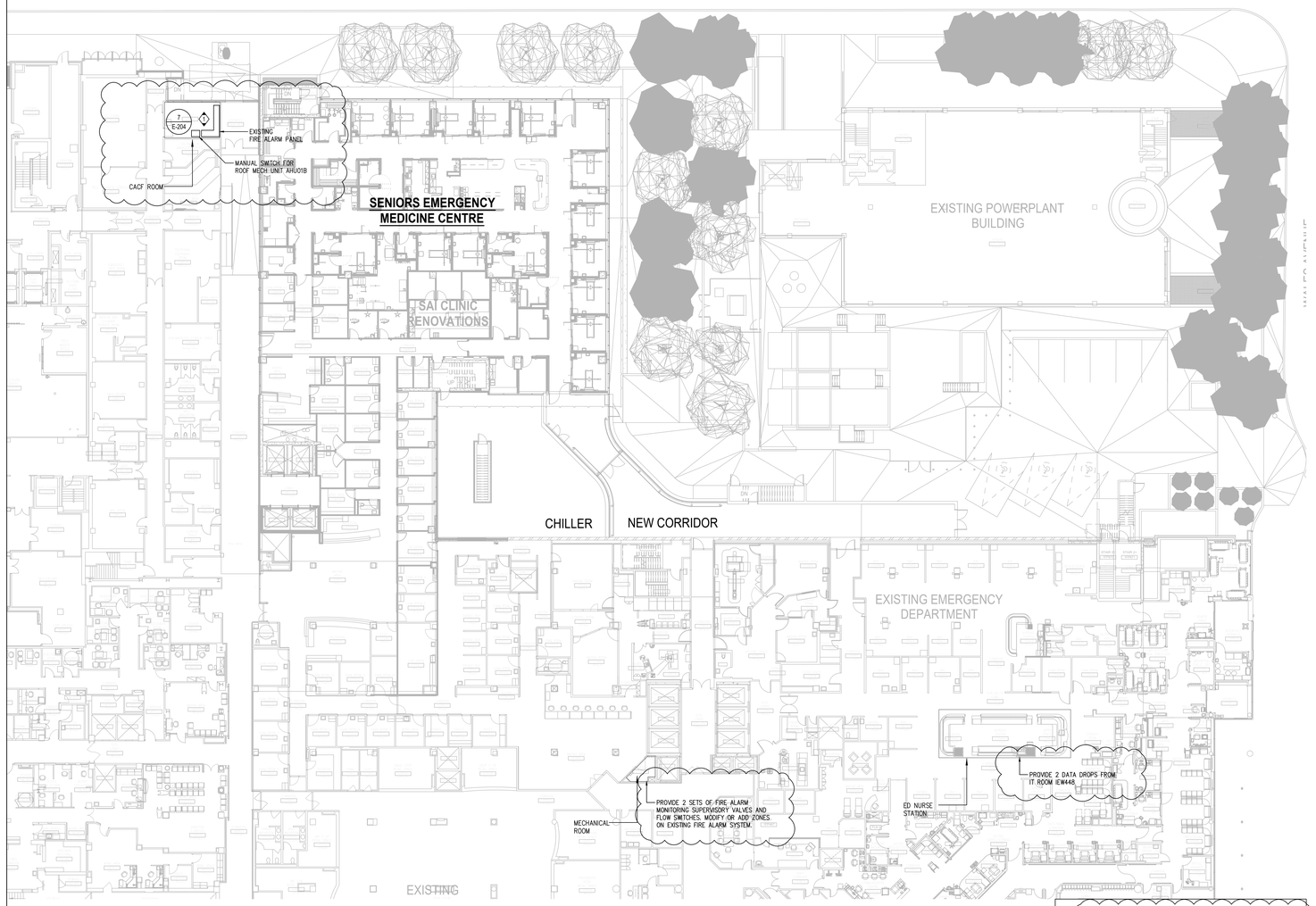
1. DUE TO EXISTING CONDITIONS, CONTRACTOR RESPONSIBLE TO FIND THE BEST ROUTE THROUGH CORRIDORS AND FLOORS. ALL CABLE CONTAINMENT AND CABLING WORKS SHALL BE AFTER HOURS.

KEYNOTE:

1. PROVIDE THREE(3) 15A-1P BREAKERS IN PANEL PP-B-1AA AND PROVIDE TWO(2) 15A-1P BREAKERS IN PANEL RP-B-1EA.(MANUFACTURER: POW-R-LINE PL1A)
2. REFER TO FA SCOPE OF WORK AND INCLUDE FOR COORDINATION TO EXISTING FACP
3. REWORK AND REINSTATE THE CEILING TO ACCOMMODATE THE ADDITIONAL ROUTING OF THE IT FIBRE.
4. CONNECT TO NEAREST EXISTING FIRE ALARM CIRCUIT. INCLUDE TO PROVIDE AMPLIFIER AND ASSOCIATED WIRING/ACCESSORIES FOR EXISTING FIRE ALARM SYSTEM.



1 BASEMENT PART FLOOR PLAN
1 : 200



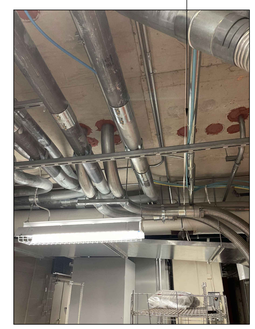
KEYNOTE:

1. CONTRACT NEED TO MODIFY AND ADD ZONES IN THE REMOTE ANNUNCIATOR, LOCATION TO BE VERIFIED ON-SITE.

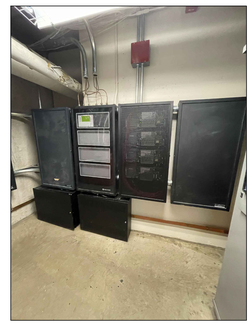
2 GROUND PART FLOOR PLAN
1 : 200

EXISTING SLEEVES FOR ELECTRICAL FEEDER FROM BASEMENT TO MECHANICAL ROOM

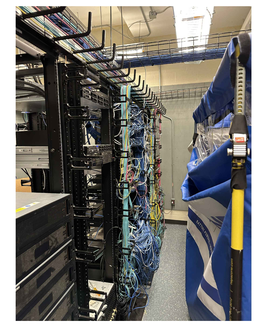
3 SWITCHBOARD SWBD-NEA
N.T.S



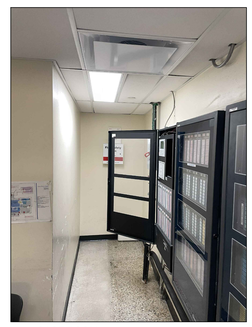
4 BASEMENT SWITCH ROOM - OPEN TO ABOVE
N.T.S



5 BASEMENT FIRE ALARM PANEL
N.T.S



6 913 COMM ROOM
N.T.S



7 CACF ROOM
N.T.S

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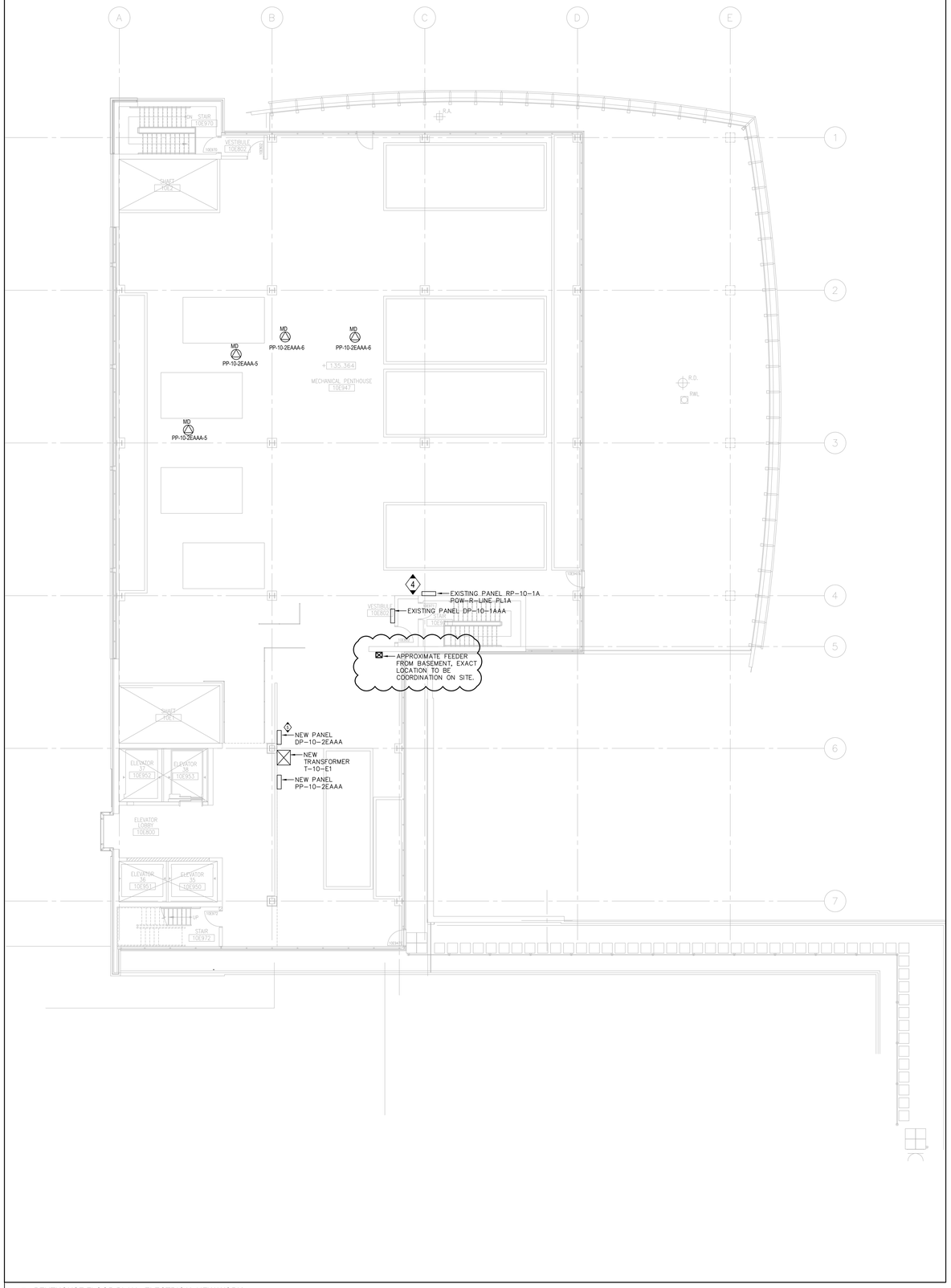
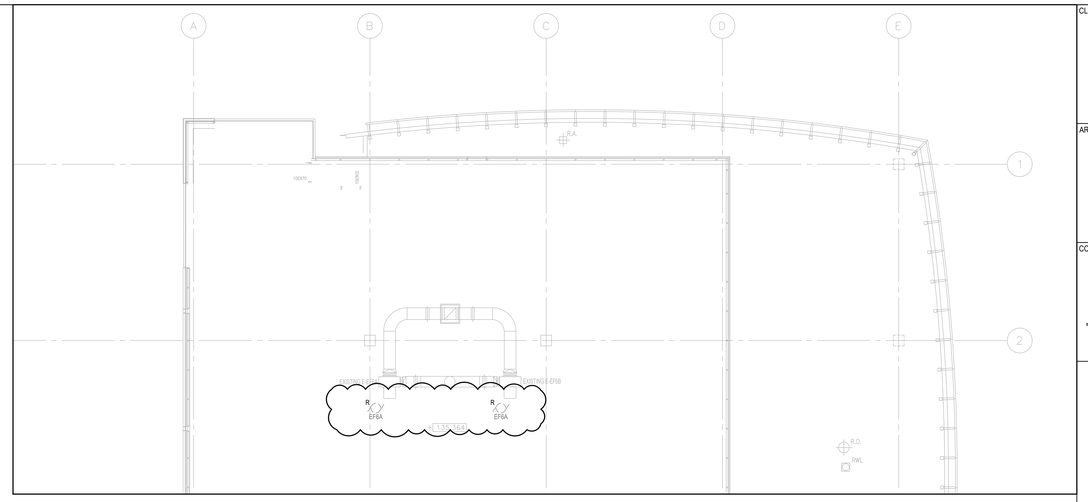
PROJECT:
UHN TWH - Seniors Emergency Medicine Centre
399 Bathurst Street, Toronto ON M5T 2S8
UHN PROJECT NO.: SAP #110022016

TITLE:
BASEMENT FLOOR PLAN

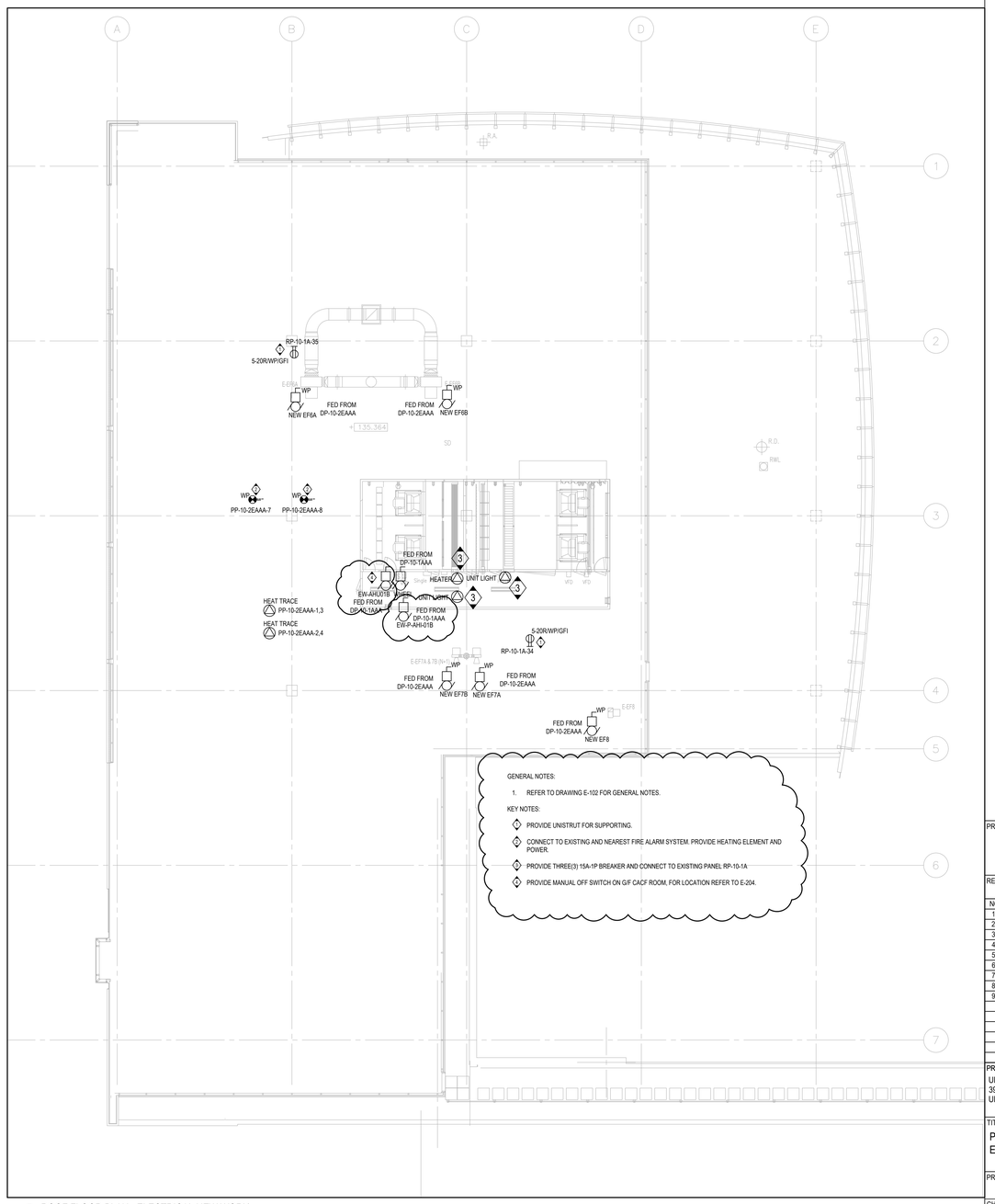
PROJECT NO: MRK-23004289
CHECKED: M.S.
DRAWING NO: E-204



1 PENTHOUSE FLOOR PLAN - ELECTRICAL NEW WORK
1 : 100



2 ROOF FLOOR PLAN - ELECTRICAL DEMOLITION
1 : 100



3 ROOF FLOOR PLAN - ELECTRICAL NEW WORK
1 : 100

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PROJECT STATUS:

REVISIONS

NO	DESCRIPTION	DATE
1	Issued for Design Development Progress	2024.04.05
2	Issued for 100 DD	2024.05.10
3	Issued for 50% CD / Permit	2024.08.02
4	Issued for 90% CD	2024.09.06
5	Issued for 100% CD	2024.09.27
6	Issued for Tender	2024.10.11
7	Issued for Tender Addendum No.2	2024.11.01
8	Issued for Tender Addendum No.4	2024.11.12
9	Issued for Tender Addendum No.5	2024.11.19

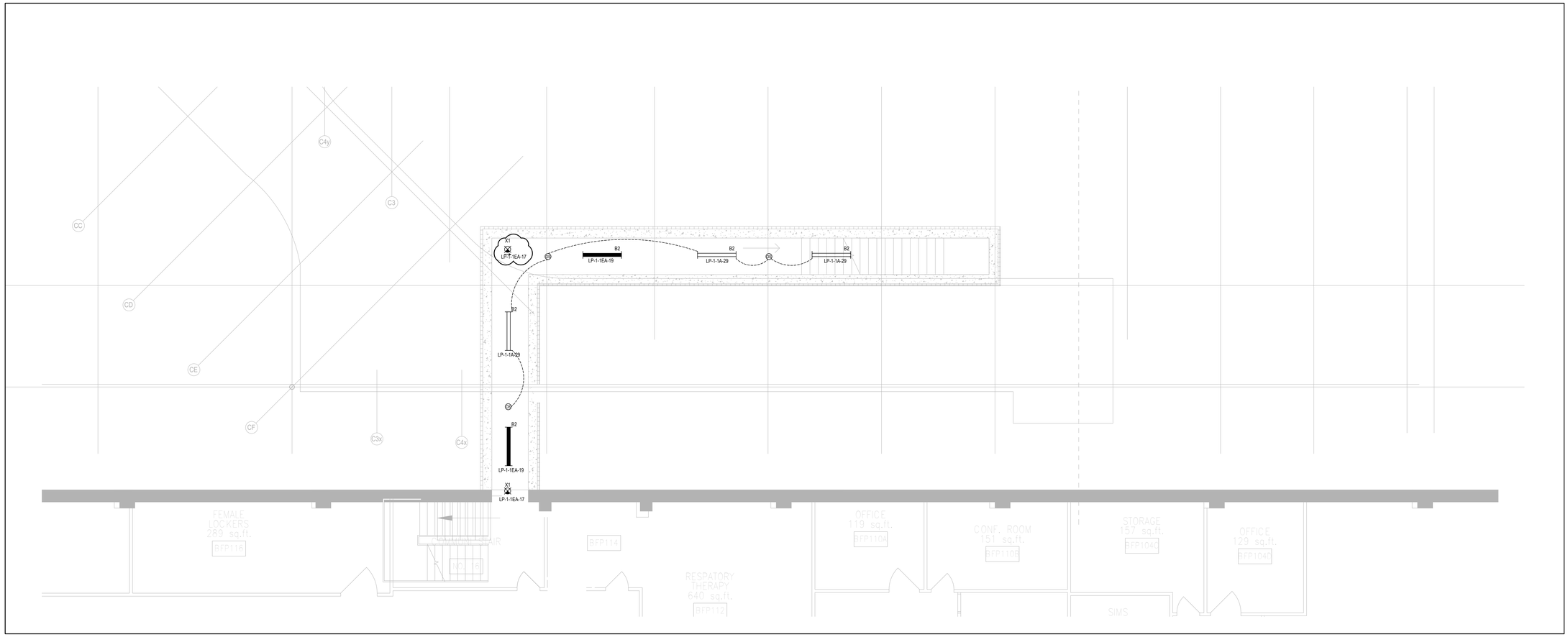
PROJECT:
UHN TWH - Seniors Emergency Medicine Centre
399 Bathurst Street, Toronto ON M5T 2S8
UHN PROJECT NO.: SAP #11002201 6

TITLE:
PENTHOUSE & ROOF FLOOR PLAN - ELECTRICAL LAYOUT

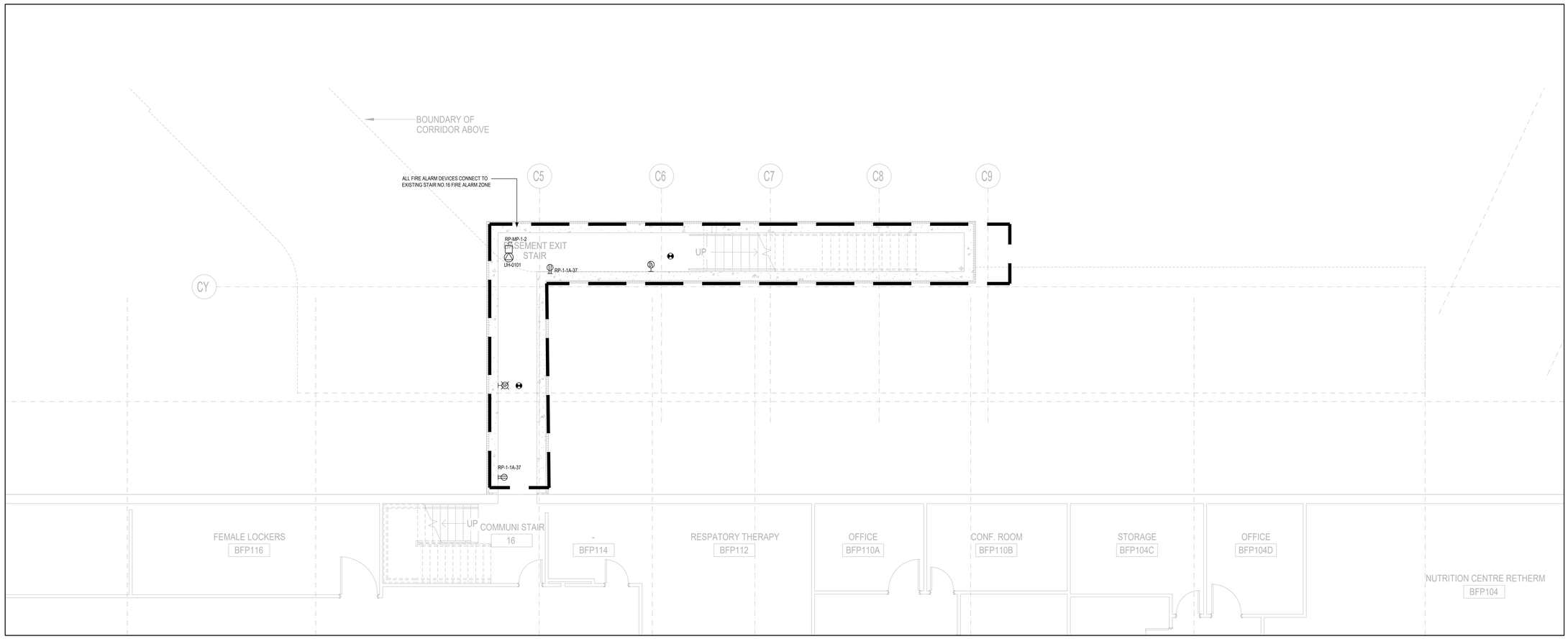
PROJECT NO: MRK-23004289

CHECKED: M.S.

DRAWING NO: E-205



1 BELOW GRADE FLOOR - LIGHTING
1 : 50



2 BELOW GRADE FLOOR - POWER & SYSTEM
1 : 50

CLIENT:

UHN
University Health Network
Toronto Western Hospital
399 Bathurst Street
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ARCHITECT:

CUMULUS ARCHITECTS INC.
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CONSULTANT:

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PROJECT STATUS:

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1	Issued for Design Development Progress	2024.04.05
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6	Issued for Tender	2024.10.11
7	Issued for Tender Addendum	2024.10.25
8	Issued for Tender Addendum No.5	2024.11.19

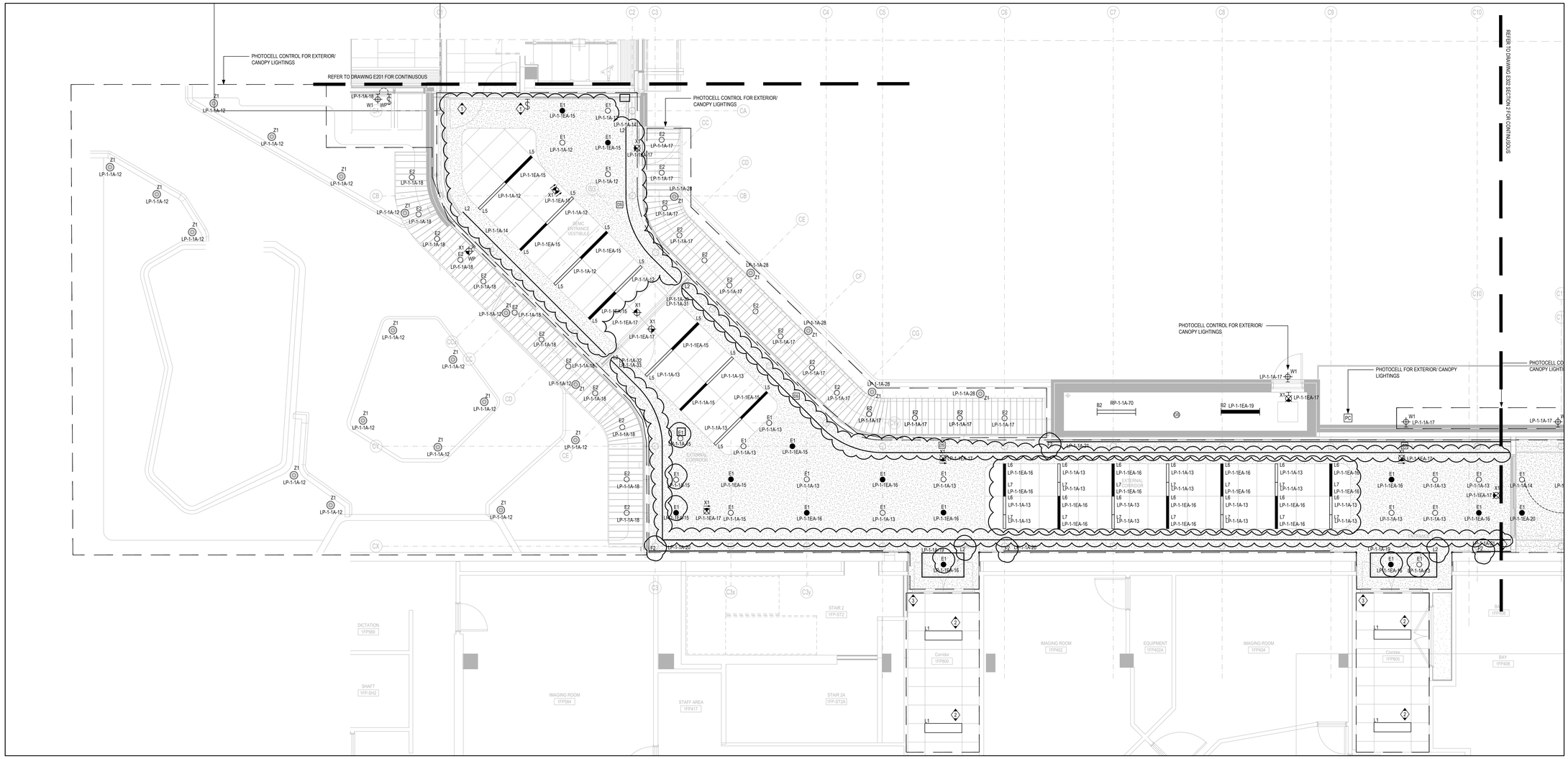
PROJECT:
UHN TWH - Seniors Emergency Medicine Centre
399 Bathurst Street, Toronto ON M5T 2S8
UHN PROJECT NO.: SAP #110022016

TITLE:
BELOW GRADE FLOOR - ELECTRICAL LAYOUT

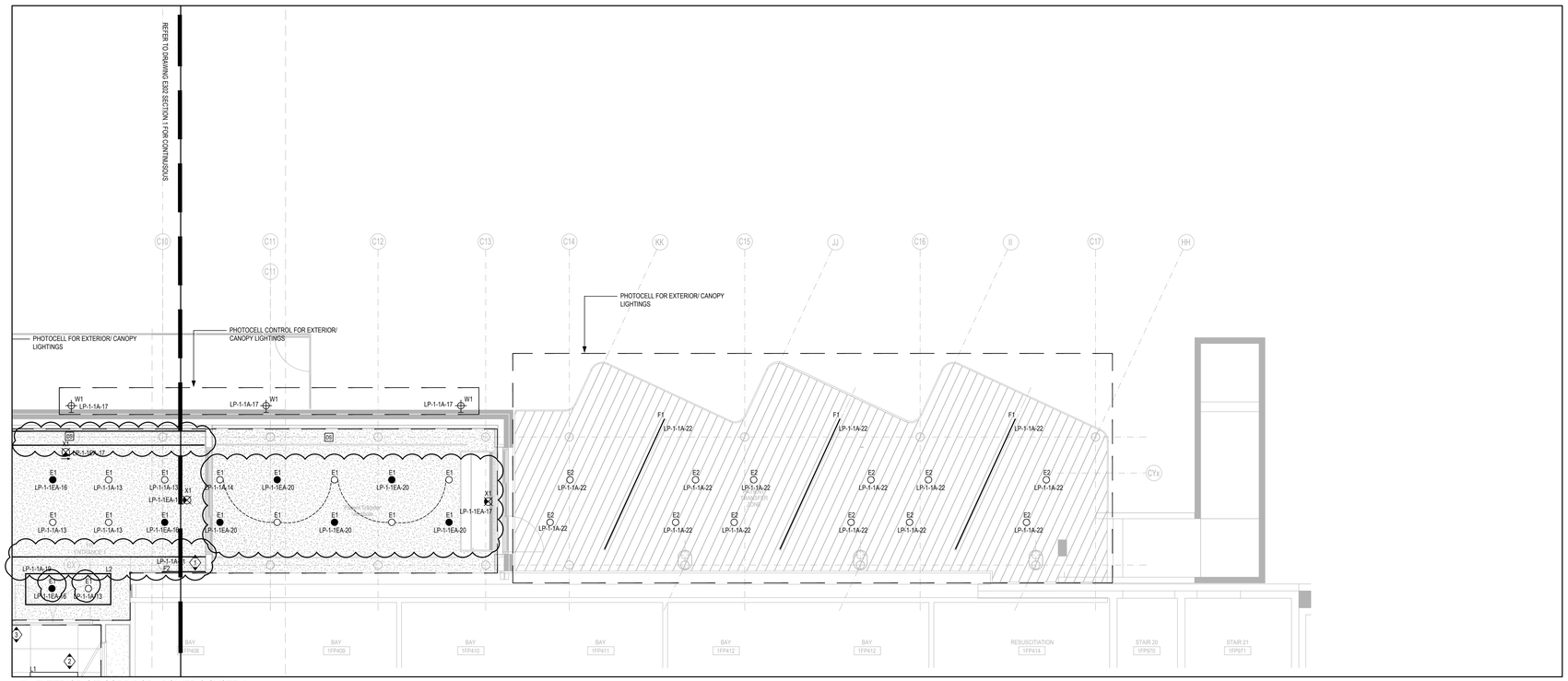
PROJECT NO: MRK-23004289

CHECKED: M.S.

DRAWING NO: E-301



1 EXTERIOR G/F CORRIDOR - LIGHTING
1 : 50



2 EXTERIOR G/F CORRIDOR - POWER & SYSTEM
1 : 50

KEY NOTES:

1. PATIENT CORRIDORS: TUNABLE WHITE DIMMER AND WARMER IN PM, BRIGHTER IN AM WITH PHOTO SENSORS WITH LOCAL OVERRIDE LIGHT SWITCH. 100% BRIGHTNESS FOR CORRIDOR FIXTURES WHEN PRESSED AND BACK TO PROGRAM SET WHEN SWITCH OFF.
2. CONNECT TO EXISTING LIGHTING CIRCUIT.
3. EXISTING CEILING TO BE REPLACED, EXISTING FIXTURES TO BE REMOVED. UNLESS SPECIFIED, ALL EXISTING CEILING DEVICES SHALL BE KEPT, RELOCATED AND RE-INSTALL ON THE NEW CEILING.

CLIENT:

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PROJECT STATUS:

REVISIONS

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6	Issued for Tender	2024.10.11
7	Issued for Tender Addendum	2024.10.25
8	Issued for Tender Addendum No.5	2024.11.19

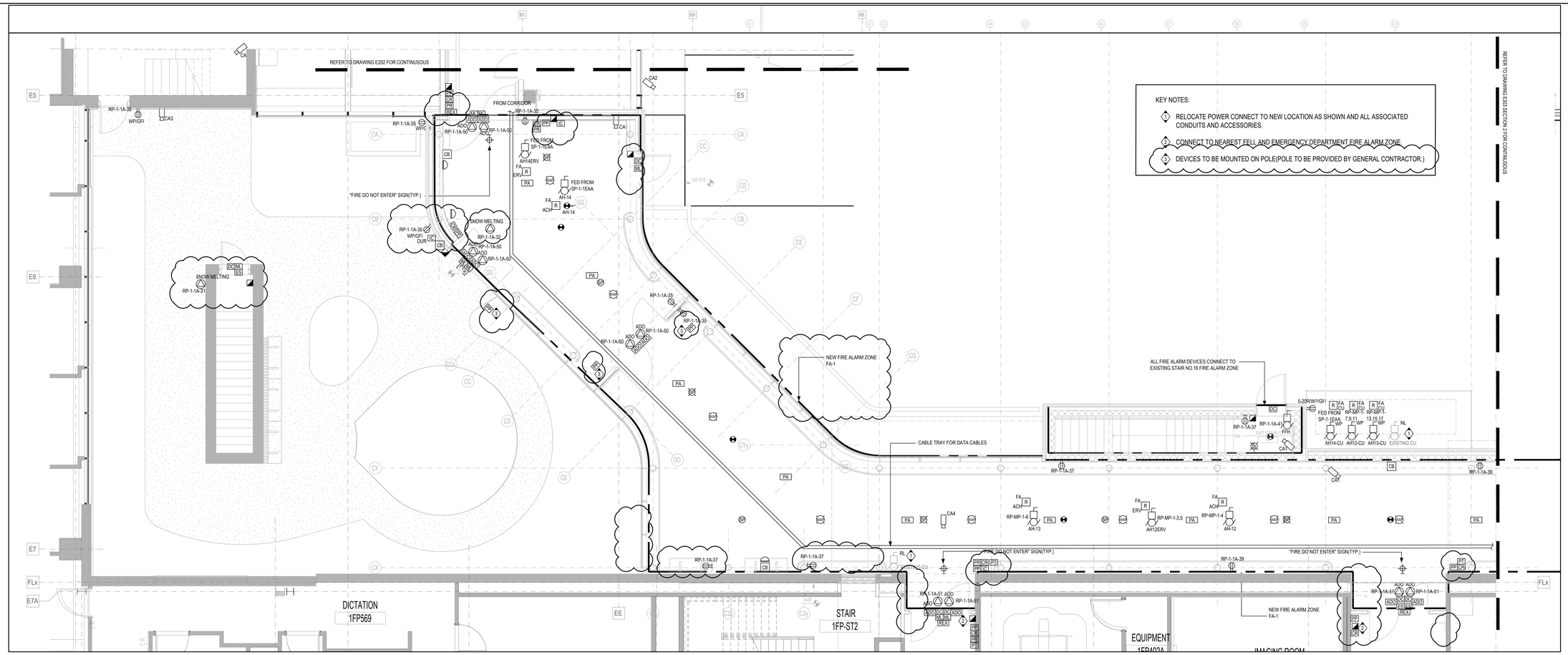
PROJECT:
UHN TWH - Seniors Emergency Medicine Centre
399 Bathurst Street, Toronto ON M5T 2S8
UHN PROJECT NO.: SAP #110022016

TITLE:
GROUND FLOOR PLAN - LIGHTING LAYOUT

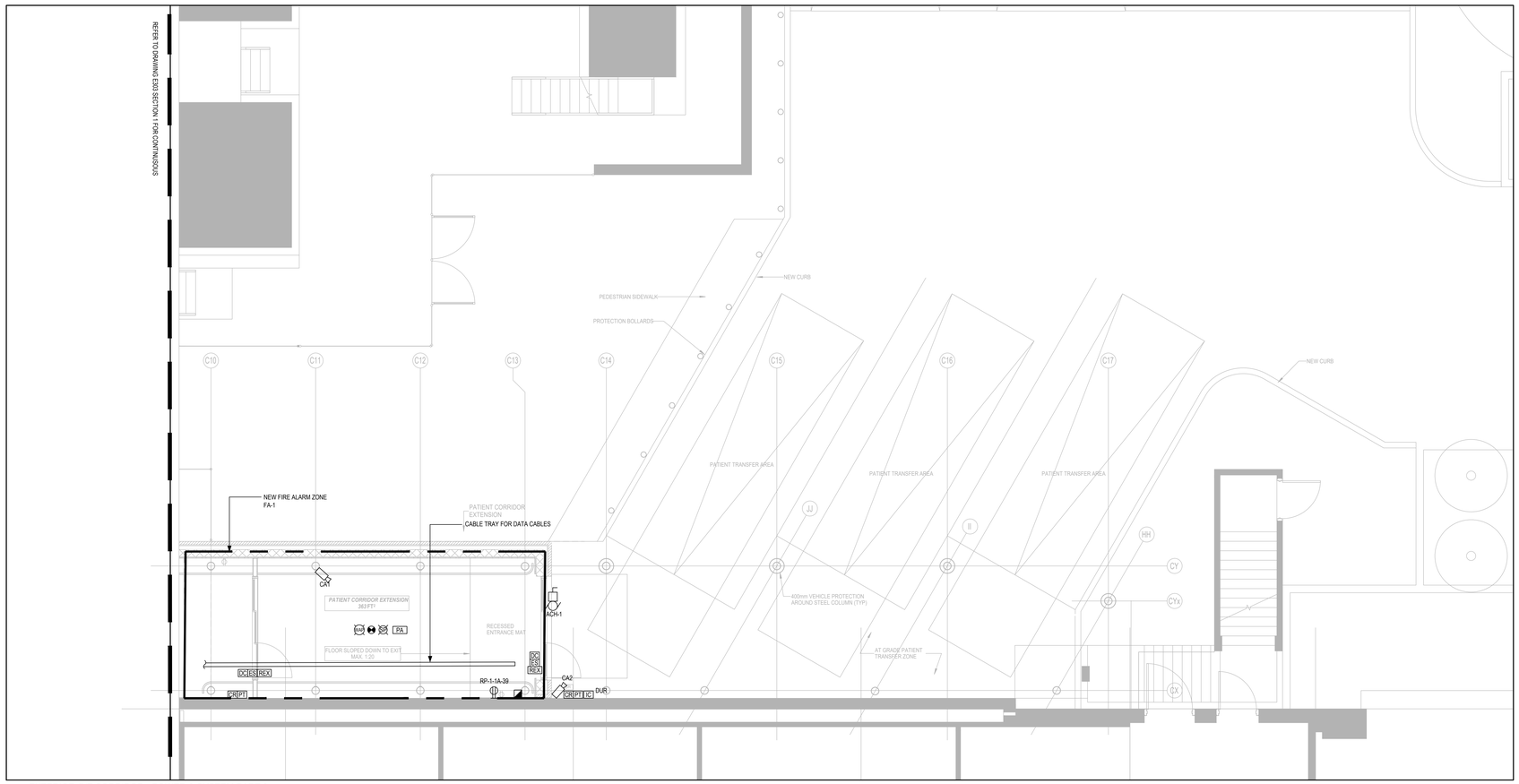
PROJECT NO: MRK-23004289

CHECKED: M.S.

DRAWING NO: E-302



1 EXTERIOR G/F CORRIDOR - POWER & SYSTEM PART 1
1 : 50



2 EXTERIOR G/F CORRIDOR - POWER & SYSTEM PART 2
1 : 50

CLIENT:

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PROJECT STATUS:

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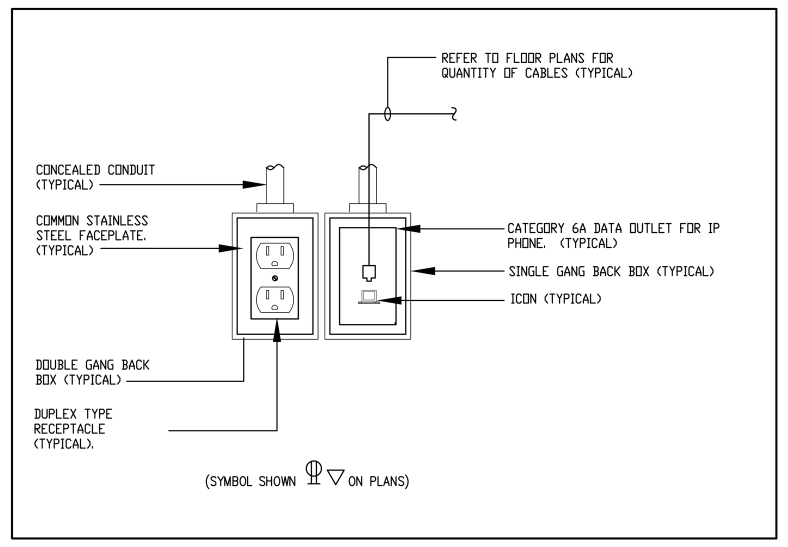
8	Issued for Tender Addendum No.5	2024.11.19

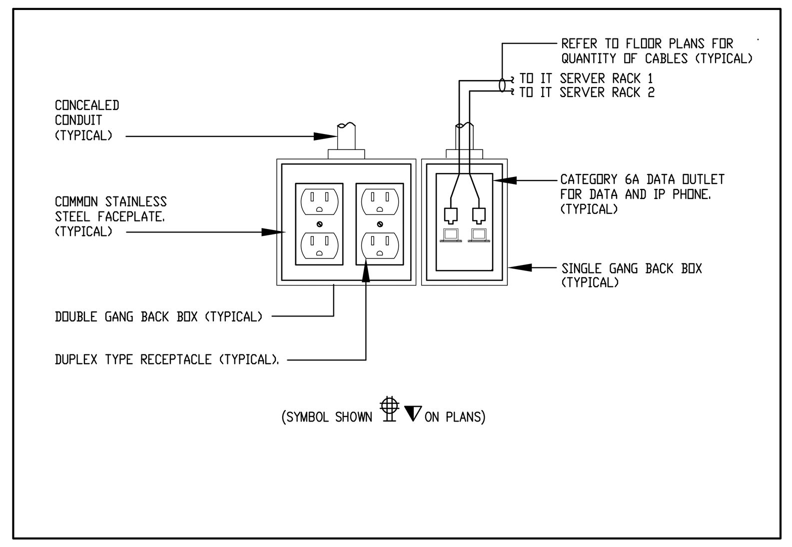
PROJECT:
UHN TWH - Seniors Emergency Medicine Centre
399 Bathurst Street, Toronto ON M5T 2S8
UHN PROJECT NO.: SAP #110022016

TITLE:
GROUND FLOOR PLAN - POWER & SYSTEMS LAYOUT

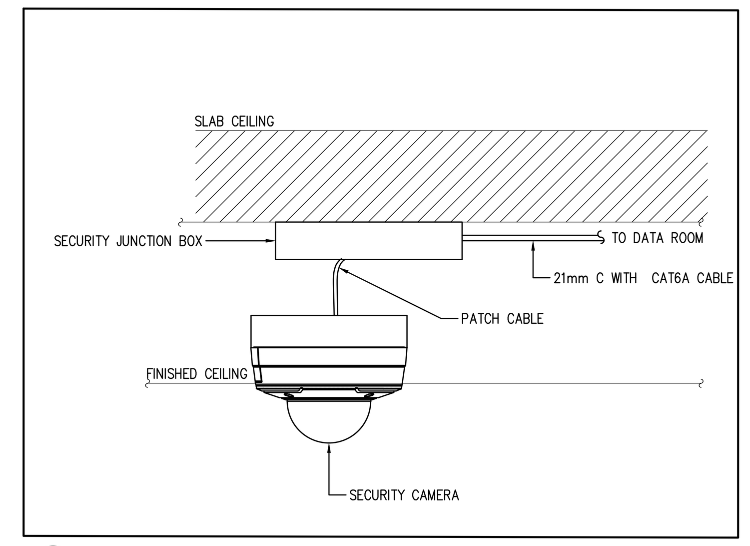
PROJECT NO: MRK-23004289
CHECKED: M.S.
DRAWING NO: E-303



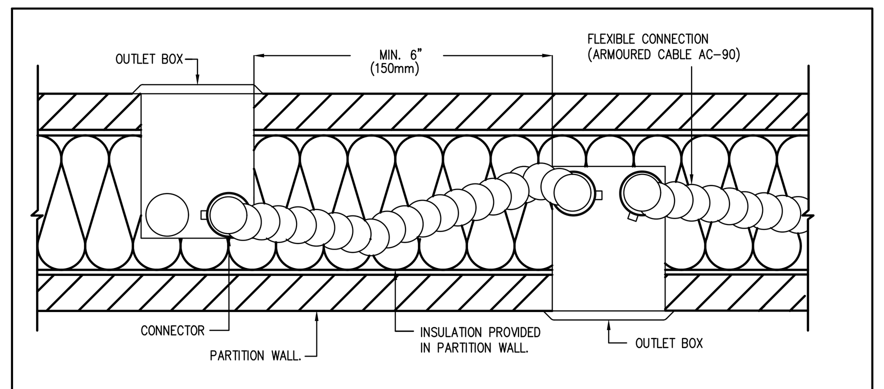
1 / E301 DETAIL OF TYPICAL WALL MOUNTED POWER & SINGLE DATA OUTLET
SCALE: N.T.S.



2 / E301 DETAIL OF TYPICAL WALL MOUNTED POWER, VOICE & DUAL DATA OUTLETS
SCALE: N.T.S.

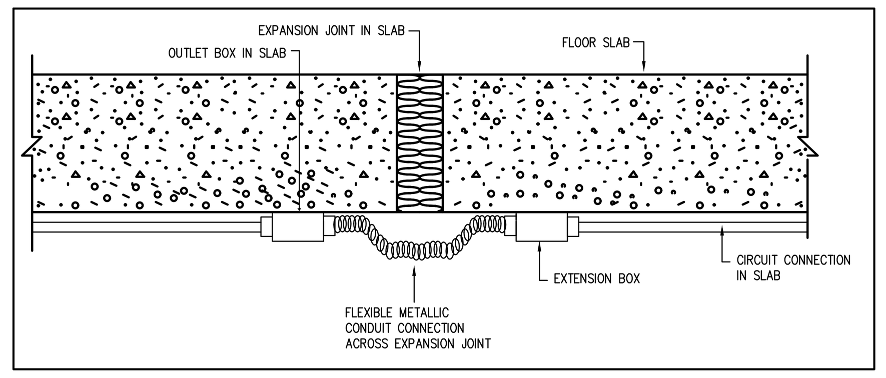


7 / E301 TYPICAL RECESSED MOUNTED CAMERA
SCALE: N.T.S.

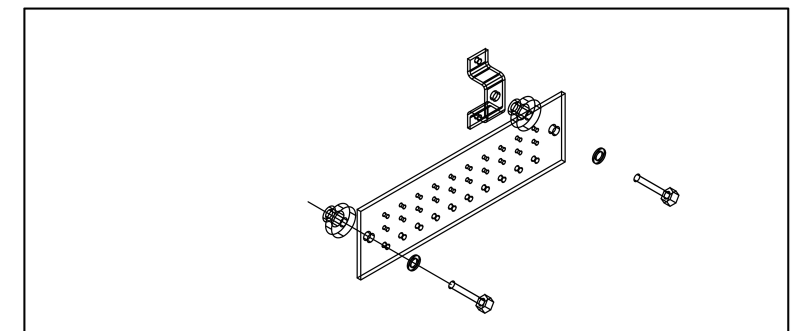


NOTES
1. THE ABOVE DETAIL INDICATES TOP ENTRY INTO THE OUTLET BOXES SIDE OR REAR ENTRY WILL BE ACCEPTABLE.
2. ALL WORK AROUND BOXES, CONDUIT ENTRY INTO BOXES, ETC. SHALL BE CAULKED WITH PERMANENTLY FLEXIBLE COMPOUND AND INSTALLED IN ACCORDANCE WITH STC COEFFICIENT OF WALLS OR PARTITIONS.

3 / E301 TYPICAL MOUNITNG DETAILS OF BACK TO BACK OUTLETS
SCALE: N.T.S.

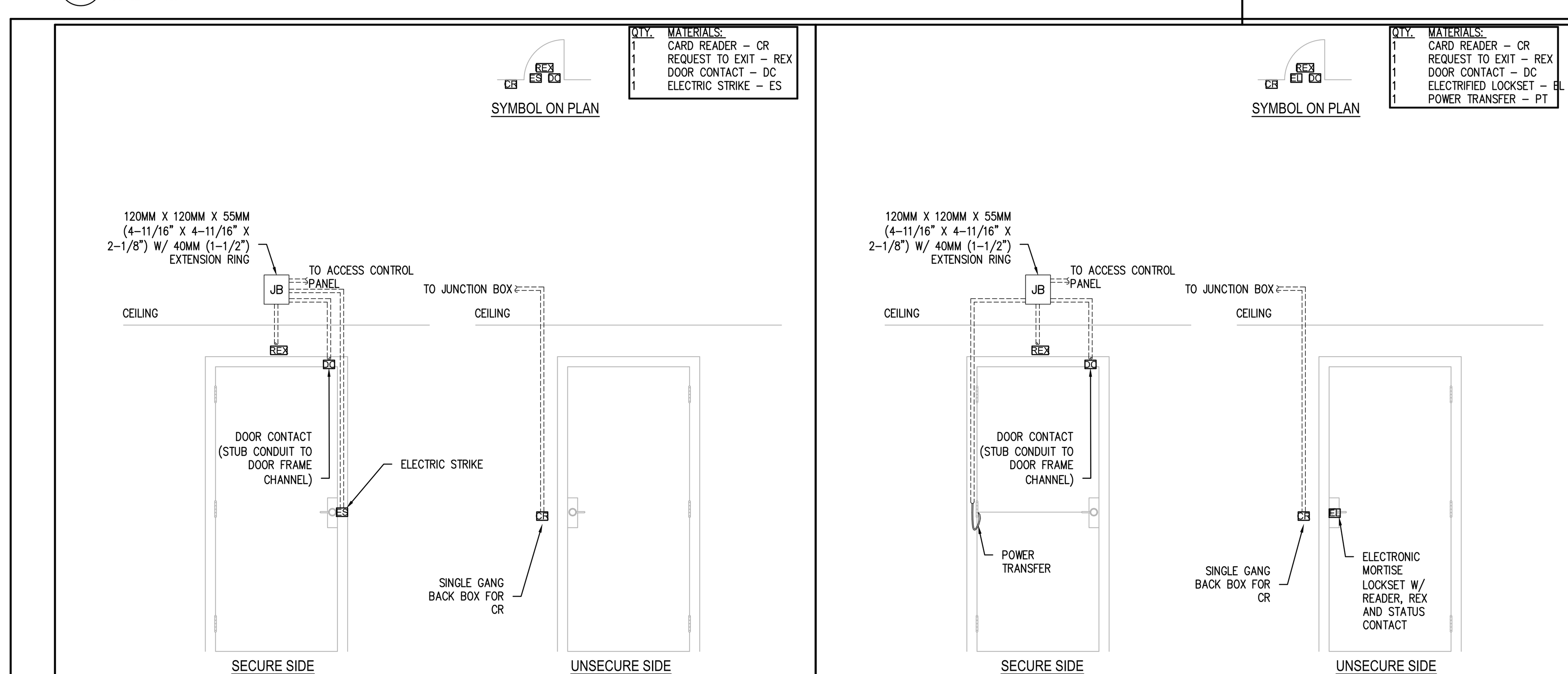


4 / E301 SURFACE MOUNTED ON SLAB AT BUILDING EXPANSION JOINT
SCALE: N.T.S.



NOTES:
1. BUS TO BE MOUNTED AT LOWER CORNER OF PLYWOOD BACKBOARD.
2. EQUIPMENT RACKS, CABINETS AND CABLE TRAY ARE TO BE TERMINATED ON THE BUS BAR. GROUND EACH EQUIPMENT USING 'STAR' CONFIGURATION, DAISY CHAIN NOT ACCEPTABLE.
3. ONE #6 AWG INSULATED GREEN GROUND WIRE IS TO BE PROVIDED IN 1"C FROM THE GROUND BUS BACK TO THE BUILDING GROUND RISER.

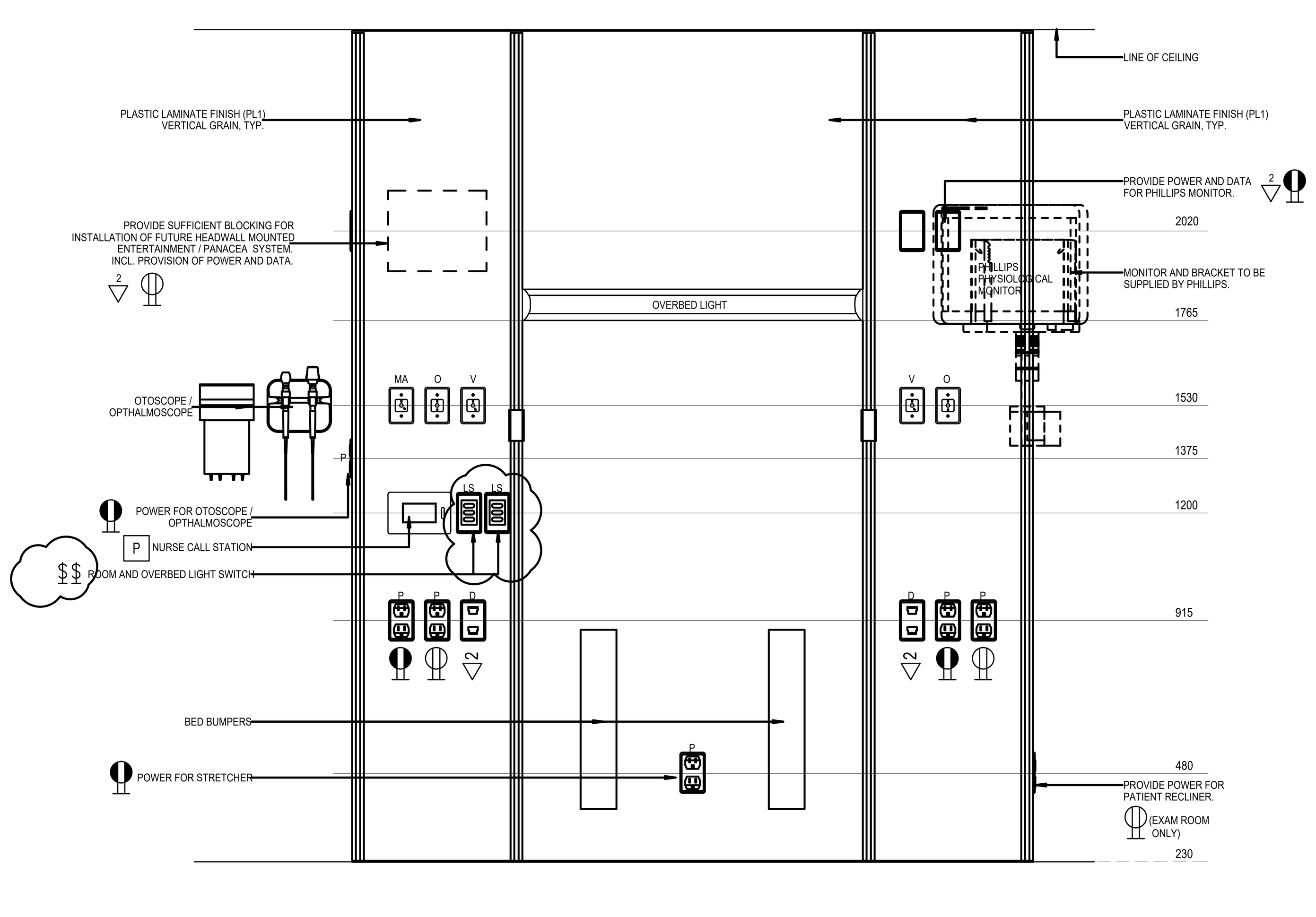
6 / E301 DETAIL OF WALL MOUNTED GROUND BUS BAR
SCALE: N.T.S.



DETAIL NOTES:
1. ALL CONDUITS SHALL BE 20MM (3/4") UNLESS NOTED OTHERWISE.
2. REFER TO PLANS FOR EXACT DOOR SWING.
3. REFER TO AUTODOOR SHOP DRAWINGS FOR EXACT CONDUIT ROUGH–IN LOCATIONS.

DETAIL NOTES:
1. ALL CONDUITS SHALL BE 20MM (3/4") UNLESS NOTED OTHERWISE.
2. REFER TO PLANS FOR EXACT DOOR SWING.
3. REFER TO AUTODOOR SHOP DRAWINGS FOR EXACT CONDUIT ROUGH–IN LOCATIONS.

5 / E301 SECURITY DOOR DETAILS
SCALE: N.T.S.



1 / E401 HEADWALL DETAILS
SCALE: N.T.S.

PANEL PP–B–2EAAA

CONNECTED LOAD: – FED FROM T–B–E1
LOCATION: MECHANICAL ROOM

■ 120/208V/3 PH/4 WIRE MAINS
☐ SEPARATE GROUND BAR FOR I.G.
■ RECESSED ☐ SURFACE MOUNTED
■ 200A MAINS ■ __KAIC

DESCRIPTION	BKR	CCT		CCT	BKR	DESCRIPTION
AH14ERV–1	20A	1	A	2		
		3	B	4	30A	FP–AH14–CU
FP–ACH–14	25A	5	C	6		
SPARE	20A	7	A	8		
		9	B	10	30A	SPARE
		11	C	12		
		13	A	14		
		15	B	16		
		17	C	18		
SPARE	25A	19	A	20	20A	SPARE
SPARE	25A	21	B	22	20A	SPARE
SPARE	15A	23	C	24	20A	SPARE
SPARE	15A	25	A	26	20A	SPARE
SPARE	15A	27	B	28	20A	SPARE
SPARE	15A	29	C	30	20A	SPARE

NOTES:
1. CIRCUIT BREAKERS SHALL BE RATED FOR 10kA RMS SYM I.C.
2. CONTRACTOR SHALL VERIFY THE EXACT QUANTITY OF EXISTING CIRCUIT AND BREAKER SIZE SHALL MATCH WITH EXISTING WITH NO COST IMPLICATION.

PANEL PP–10–2EAAA

CONNECTED LOAD: – FED FROM T–10–E1
LOCATION: MECHANICAL ROOM

■ 120/208V/3 PH/4 WIRE MAINS
☐ SEPARATE GROUND BAR FOR I.G.
■ RECESSED ☐ SURFACE MOUNTED
■ 200A MAINS ■ __KAIC

DESCRIPTION	BKR	CCT		CCT	BKR	DESCRIPTION
HEAT TRACING	20A	1	A	2	20A	HEAT TRACING
		3	B	4		
MOTORIZED DAMPER	15A	5	C	6	15A	MOTORIZED DAMPER
HEATING FOR DUCT SMOKE DETECTOR	15A	7	A	8	15A	HEATING FOR DUCT SMOKE DETECTOR
AHU HEATER	15A	9	B	10	15A	UNIT LIGHT
UNIT LIGHT	15A	11	C	12		
		13	A	14		
		15	B	16		
		17	C	18		
SPARE	15A	19	A	20	20A	SPARE
SPARE	15A	21	B	22	20A	SPARE
SPARE	15A	23	C	24	20A	SPARE
SPARE	15A	25	A	26	20A	SPARE
SPARE	15A	27	B	28	20A	SPARE
SPARE	15A	29	C	30	20A	SPARE

NOTES:
1. CIRCUIT BREAKERS SHALL BE RATED FOR 10kA RMS SYM I.C.
2. CONTRACTOR SHALL VERIFY THE EXACT QUANTITY OF EXISTING CIRCUIT AND BREAKER SIZE SHALL MATCH WITH EXISTING WITH NO COST IMPLICATION.

PANEL RP–1–1EA

CONNECTED LOAD: – FED FROM SP–1–1EAA
LOCATION: ELECTRICAL CLOSET

■ 120/208V/3 PH/4 WIRE MAINS
☐ SEPARATE GROUND BAR FOR I.G.
■ RECESSED ☐ SURFACE MOUNTED
■ 225A MAINS ■ __KAIC

DESCRIPTION	BKR	CCT		CCT	BKR	DESCRIPTION
L6–30R RECEPTACLE	30A	1	A	2	30A	L6–30R RECEPTACLE
		3	B	4		
		5	C	6		
L6–30R RECEPTACLE	30A	7	A	8	30A	L6–30R RECEPTACLE
		9	B	10		
		11	C	12		
L6–30R RECEPTACLE	30A	13	A	14	30A	L6–30R RECEPTACLE
		15	B	16		
		17	C	18		
EXISTING CIRCUIT	15A	19	A	20	20A	EXISTING CIRCUIT
EXISTING CIRCUIT	15A	21	B	22	20A	EXISTING CIRCUIT
EXISTING CIRCUIT	15A	23	C	24	20A	EXISTING CIRCUIT
EXISTING CIRCUIT	15A	25	A	26	20A	EXISTING CIRCUIT
EXISTING CIRCUIT	15A	27	B	28	20A	EXISTING CIRCUIT
EXISTING CIRCUIT	15A	29	C	30	20A	EXISTING CIRCUIT
EXISTING CIRCUIT	15A	31	A	32	20A	EXISTING CIRCUIT
EXISTING CIRCUIT	15A	33	B	34	20A	EXISTING CIRCUIT
EXISTING CIRCUIT	15A	35	C	36	20A	EXISTING CIRCUIT
EXISTING CIRCUIT	15A	37	A	38	20A	EXISTING CIRCUIT
EXISTING CIRCUIT	15A	39	B	40	20A	EXISTING CIRCUIT
EXISTING CIRCUIT	15A	41	A	42	20A	EXISTING CIRCUIT

NOTES:
1. CIRCUIT BREAKERS SHALL BE RATED FOR 10kA RMS SYM I.C.
2. CONTRACTOR SHALL VERIFY THE EXACT QUANTITY OF EXISTING CIRCUIT AND BREAKER SIZE SHALL MATCH WITH EXISTING WITH NO COST IMPLICATION.

PANEL RP–1–1A

CONNECTED LOAD: – FED FROM PP–1–1AA
LOCATION: CORRIDOR

■ 120/208V/3 PH/4 WIRE MAINS
☐ SEPARATE GROUND BAR FOR I.G.
■ RECESSED ☐ SURFACE MOUNTED
■ 225A MAINS ■ __KAIC

DESCRIPTION	BKR	CCT		CCT	BKR	DESCRIPTION
SPARE	15A	1	A	2	15A	SPARE
SPARE	15A	3	B	4	15A	SPARE
SPARE	15A	5	C	6	15A	SPARE
SPARE	15A	7	A	8	15A	SPARE
RECEPTACLES	20A	9	B	10	20A	RECEPTACLES
RECEPTACLES	20A	11	C	12	20A	RECEPTACLES
RECEPTACLES	20A	13	A	14	20A	RECEPTACLES
RECEPTACLES	20A	15	B	16	20A	RECEPTACLES
RECEPTACLES	20A	17	C	18	20A	RECEPTACLES
RECEPTACLES	20A	19	A	20	20A	RECEPTACLES
RECEPTACLES	20A	21	B	22	20A	RECEPTACLES
RECEPTACLES	20A	23	C	24	20A	RECEPTACLES
RECEPTACLES	20A	25	A	26	20A	RECEPTACLES
RECEPTACLES	20A	27	B	28	20A	RECEPTACLES
SPARE	20A	29	C	30	20A	RECEPTACLES
SNOW MELTING	40A	31	A	32	15A	SNOW MELTING
SPARE	20A	33	B	34	15A	SMART GLASS
RECEPTACLES	20A	35	C	36	15A	SPARE
RECEPTACLES	20A	37	A	38	20A	SPARE
RECEPTACLES	20A	39	B	40	20A	SPARE
HEATER	15A	41	C	42	20A	EXAM ROOM RECEPTACLES
EXAM ROOM RECEPTACLES	20A	43	A	44	20A	EXAM ROOM RECEPTACLES
EXAM ROOM RECEPTACLES	20A	45	B	46	20A	EXAM ROOM RECEPTACLES
EXAM ROOM RECEPTACLES	20A	47	C	48	20A	EXAM ROOM RECEPTACLES
SMART GLASS	15A	49	A	50	15A	ADO
ADO	15A	51	B	52	15A	ADO
EXAM ROOM RECEPTACLES	20A	53	C	54	15A	SPARE
SPARE	20A	55	A	56	15A	SPARE
SPARE	20A	57	B	58	15A	SPARE
EXAM ROOM RECEPTACLES	20A	59	C	60	20A	EXAM ROOM RECEPTACLES
EXAM ROOM RECEPTACLES	20A	61	A	62	20A	EXAM ROOM RECEPTACLES
EXAM ROOM RECEPTACLES	20A	63	B	64	20A	EXAM ROOM RECEPTACLES
SPARE	20A	65	C	66	20A	SPARE
SPARE	20A	67	A	68	20A	SPARE
SPARE	20A	69	B	70	20A	SPARE
EXISTING CIRCUIT		71	C	72		EXISTING CIRCUIT
EXISTING CIRCUIT		73	A	74		EXISTING CIRCUIT
EXISTING CIRCUIT		75	B	76		EXISTING CIRCUIT
EXISTING CIRCUIT		77	C	78		EXISTING CIRCUIT
EXISTING CIRCUIT		79	A	80		EXISTING CIRCUIT
EXISTING CIRCUIT		81	B	82		EXISTING CIRCUIT
EXISTING CIRCUIT		83	C	84		EXISTING CIRCUIT

NOTES:
1. CIRCUIT BREAKERS SHALL BE RATED FOR 10kA RMS SYM I.C.
2. CONTRACTOR SHALL VERIFY THE EXACT QUANTITY OF EXISTING CIRCUIT AND BREAKER SIZE SHALL MATCH WITH EXISTING WITH NO COST IMPLICATION.

PANEL RP–1–1B

CONNECTED LOAD: – FED FROM PP–1–1AA
LOCATION: ELECTRICAL CLOSET

■ 120/208V/3 PH/4 WIRE MAINS
☐ SEPARATE GROUND BAR FOR I.G.
■ RECESSED ☐ SURFACE MOUNTED
■ 225A MAINS ■ __KAIC

DESCRIPTION	BKR	CCT		CCT	BKR	DESCRIPTION
RECEPTACLES	20A	1	A	2	15A	SMART GLASS
SMART GLASS	15A	3	B	4	15A	TRAP SEAL PRIMER
MICROWAVE	15A	5	C	6	15A	SPARE
SPARE	15A	7	A	8	15A	SPARE
SPARE	15A	9	B	10	15A	SPARE
SPARE	15A	11	C	12	15A	SPARE
SPARE	15A	13	A	14	15A	SPARE
RECEPTACLES	20A	15	B	16	20A	RECEPTACLES
RECEPTACLES	20A	17	C	18	20A	RECEPTACLES
RECEPTACLES	20A	19	A	20	20A	RECEPTACLES
RECEPTACLES	20A	21	B	22	20A	RECEPTACLES
RECEPTACLES	20A	23	C	24	20A	RECEPTACLES
RECEPTACLES	20A	25	A	26	20A	RECEPTACLES
RECEPTACLES	20A	27	B	28	20A	RECEPTACLES
RECEPTACLES	20A	29	C	30	20A	RECEPTACLES
RECEPTACLES	20A	31	A	32	20A	RECEPTACLES
RECEPTACLES	20A	33	B	34	20A	RECEPTACLES
RECEPTACLES	20A	35	C	36	20A	RECEPTACLES
RECEPTACLES	20A	37	A	38	20A	RECEPTACLES
EXAM ROOM RECEPTACLES	20A	39	B	40	20A	EXAM ROOM RECEPTACLES
SPARE	20A	41	C	42	20A	EXAM ROOM RECEPTACLES
EXAM ROOM RECEPTACLES	20A	43	A	44	20A	EXAM ROOM RECEPTACLES
EXAM ROOM RECEPTACLES	20A	45	B	46	20A	EXAM ROOM RECEPTACLES
EXAM ROOM RECEPTACLES	20A	47	C	48	20A	EXAM ROOM RECEPTACLES
SPARE	20A	49	A	50	15A	SMART GLASS
SPARE	15A	51	B	52	15A	ADO
AIIR EXAM ROOM	15A	53	C	54	15A	ADO
MOTORIZED DAMPER	15A	55	A	56	15A	WATER BOTTLE FILLER
		57	B	58	20A	AIIR EXAM ROOM
DISINFECTION UNIT	20A	59	C	60	15A	SPARE
		61	A	62	15A	SPARE
SPARE	20A	63	B	64	15A	SPARE
SPARE	20A	65	C	66	15A	SPARE
SPARE	20A	67	A	68	15A	SPARE
SPARE	20A	69	B	70	15A	SPARE
SPARE	20A	71	C	72		
SPARE	20A	73	A	74		
SPARE	20A	75	B	76		
EXISTING CIRCUIT		77	C	78		EXISTING CIRCUIT
EXISTING CIRCUIT		79	A	80		EXISTING CIRCUIT
EXISTING CIRCUIT		81	B	82		EXISTING CIRCUIT
EXISTING CIRCUIT		83	C	84		EXISTING CIRCUIT

NOTES:
1. CIRCUIT BREAKERS SHALL BE RATED FOR 10kA RMS SYM I.C.
2. CONTRACTOR SHALL VERIFY THE EXACT QUANTITY OF EXISTING CIRCUIT AND BREAKER SIZE SHALL MATCH WITH EXISTING WITH NO COST IMPLICATION.

PANEL LP–1–1EA

CONNECTED LOAD: – FED FROM SP–1–1EAA
LOCATION: ELECTRICAL CLOSET

■ 120/208V/3 PH/4 WIRE MAINS
☐ SEPARATE GROUND BAR FOR I.G.
■ RECESSED ☐ SURFACE MOUNTED
■ 100A MAINS ■ __KAIC

DESCRIPTION	BKR	CCT		CCT	BKR	DESCRIPTION
LIGHTINGS	15A	1	A	2	15A	LIGHTINGS
LIGHTINGS	15A	3	B	4	15A	LIGHTINGS
LIGHTINGS	15A	5	C	6	15A	LIGHTINGS
EXIT SIGN	15A	7	A	8	15A	EXIT SIGN
EXAM ROOM	15A	9	B	10	15A	EXAM ROOM
EXAM ROOM	15A	11	C	12	15A	EXAM ROOM
EXAM ROOM	15A	13	A	14	15A	BATTERY UNIT
LIGHTINGS	15A	15	B	16	15A	LIGHTINGS
EXIT SIGN	15A	17	C	18	15A	LIGHTINGS
LIGHTINGS	15A	19	A	20	15A	LIGHTINGS
SPARE	15A	21	B	22	15A	SPARE
SPARE	15A	23	C	24	15A	SPARE
SPARE	15A	25	A	26	15A	SPARE
		27	B	28		
		29	C	30		
		31	A	32		
		33	B	34		
EXISTING CIRCUIT		35	C	36		EXISTING CIRCUIT
EXISTING CIRCUIT		37	A	38		EXISTING CIRCUIT
EXISTING CIRCUIT		39	B	40		EXISTING CIRCUIT
EXISTING CIRCUIT		41	A	42		EXISTING CIRCUIT

NOTES:
1. CIRCUIT BREAKERS SHALL BE RATED FOR 10kA RMS SYM I.C.
2. CONTRACTOR SHALL VERIFY THE EXACT QUANTITY OF EXISTING CIRCUIT AND BREAKER SIZE SHALL MATCH WITH EXISTING WITH NO COST IMPLICATION.

PANEL RP–1–2EA

CONNECTED LOAD: – FED FROM SP–1–1EAA
LOCATION: CORRIDOR

■ 120/208V/3 PH/4 WIRE MAINS
☐ SEPARATE GROUND BAR FOR I.G.
■ RECESSED ☐ SURFACE MOUNTED
■ 225A MAINS ■ __KAIC

DESCRIPTION	BKR	CCT		CCT	BKR	DESCRIPTION
FRIDGE	15A	1	A	2	20A	RECEPTACLE
PNEUMATIC TUBE SYSTEM	15A	3	B	4	15A	CAV
VAV	15A	5	C	6	15A	SPARE
RECEPTACLES	20A	7	A	8	15A	SPARE
EXAM ROOM RECEPTACLES	20A	9	B	10	20A	EXAM ROOM RECEPTACLES
EXAM ROOM RECEPTACLES	20A	11	C	12	15A	SPARE
SPARE	15A	13	A	14	15A	SPARE
SPARE	15A	15	B	16	15A	SPARE
SPARE	15A	17	C	18	15A	SPARE
SPARE	20A	19	A	20	15A	SPARE
SPARE	20A	21	B	22	15A	SPARE
SPARE	20A	23	C	24	15A	ISTAR PANEL
NURSE CALL SYSTEM	15A	25	A	26	15A	NURSE CALL SYSTEM
CLOCK SYSTEM	15A	27	B	28	20A	DGP PANEL
NURSE CALL SYSTEM	15A	29	C	30	15A	NURSE CALL SYSTEM
QR ACCESS SYSTEM	15A	31	A	32	15A	INTERCOM SYSTEM
RECEPTACLES	20A	33	B	34	15A	RECEPTACLE
RECEPTACLES	20A	35	C	36	15A	PA SYSTEM
RECEPTACLES	20A	37	A	38	15A	SPARE
RECEPTACLES	20A	39	B	40	20A	SPARE
RECEPTACLES	20A	41	C	42	20A	RECEPTACLE
RECEPTACLES	20A	43	A	44	20A	RECEPTACLE
RECEPTACLES	20A	45	B	46	20A	RECEPTACLE
RECEPTACLES	20A	47	C	48	20A	RECEPTACLE
RECEPTACLES	20A	49	A	50	20A	EXAM ROOM RECEPTACLES
EXAM ROOM RECEPTACLES	20A	51	B	52	20A	EXAM ROOM RECEPTACLES
EXAM ROOM RECEPTACLES	20A	53	C	54	20A	EXAM ROOM RECEPTACLES
EXISTING CIRCUIT		55	A	56		EXISTING CIRCUIT
EXISTING CIRCUIT		57	B	58		EXISTING CIRCUIT
EXISTING CIRCUIT		59	C	60		EXISTING CIRCUIT
EXISTING CIRCUIT		61	A	62		EXISTING CIRCUIT
RECEPTABLES	20A	63	B	64	20A	RECEPTACLE
RECEPTABLES	20A	65	C	66	15A	SPARE
SPARE	15A	67	A	68	15A	SPARE
SPARE	20A	69	B	70		
		71	C	72		

NOTES:
1. CIRCUIT BREAKERS SHALL BE RATED FOR 10kA RMS SYM I.C.
2. CONTRACTOR SHALL VERIFY THE EXACT QUANTITY OF EXISTING CIRCUIT AND BREAKER SIZE SHALL MATCH WITH EXISTING WITH NO COST IMPLICATION.

PANEL RP–MP–1

CONNECTED LOAD: – FED FROM PP–1–1AA
LOCATION: CORRIDOR

■ 120/208V/3 PH/4 WIRE MAINS
☐ SEPARATE GROUND BAR FOR I.G.
☐ RECESSED ■ SURFACE MOUNTED
■ 100A MAINS ■ __KAIC

DESCRIPTION	BKR	CCT		CCT	BKR	DESCRIPTION
EW–FFH–01	15A	1	A	2	15A	FP–UH0101
AH12ERV	20A	3	B	4	25A	ACH–12
		5	C	6	25A	ACH–13
		7	A	8	15A	SPARE
FP–AH12–CU	40A	9	B	10	15A	SPARE
		11	C	12	20A	EW–FCU–01
		13	A	14	20A	SPARE
FP–AH13–CU	40A	15	B	16	25A	SPARE
		17	C	18	25A	SPARE
		19	A	20		
SPARE	40A	21	B	22		
		23	C	24		

NOTES:
1. CIRCUIT BREAKERS SHALL BE RATED FOR 10kA RMS SYM I.C.
2. CONTRACTOR SHALL VERIFY THE EXACT QUANTITY OF EXISTING CIRCUIT AND BREAKER SIZE SHALL MATCH WITH EXISTING WITH NO COST IMPLICATION.

PANEL RP–EDW

CONNECTED LOAD: – FED FROM SP–B–1EAAA
LOCATION: CORRIDOR

■ 120/208V/3 PH/4 WIRE MAINS
☐ SEPARATE GROUND BAR FOR I.G.
☐ RECESSED ■ SURFACE MOUNTED
■ 100A MAINS ■ __KAIC

DESCRIPTION	BKR	CCT		CCT	BKR	DESCRIPTION
		1	A	2		
SPARE	15A	3	B	4	15A	SPARE
		5	C	6		
		7	A	8	15A	VALVE
PP–01	15A	9	B	10	15A	TRAP SEAL PRIMER
		11	C	12	15A	TRAP SEAL PRIMER
		13	A	14		
SP–1	15A	15	B	16	15A	SP–2
		17	C	18		
		19	A	20		
SP–3	15A	21	B	22	15A	SP–4
		23	C	24		
DWHW–01	15A	25	A	26	15A	SPARE
DWHW–02	15A	27	B	28	15A	SPARE
SPARE	15A	29	C	30	15A	SPARE
SPARE	15A	31	A	32		
		33	B	34		
		35	C	36		
		37	A	38		
		39	B	40		
		41	A	42		

NOTES:
1. CIRCUIT BREAKERS SHALL BE RATED FOR 10kA RMS SYM I.C.
2. CONTRACTOR SHALL VERIFY THE EXACT QUANTITY OF EXISTING CIRCUIT AND BREAKER SIZE SHALL MATCH WITH EXISTING WITH NO COST IMPLICATION.

PANEL LR–1–1A

CONNECTED LOAD: – FED FROM PP–1–1AA
LOCATION: ELECTRICAL CLOSET

■ 120/208V/3 PH/4 WIRE MAINS
☐ SEPARATE GROUND BAR FOR I.G.
■ RECESSED ☐ SURFACE MOUNTED
■ 225A MAINS ■ __KAIC

DESCRIPTION	BKR	CCT		CCT	BKR	DESCRIPTION
LIGHTINGS	15A	1	A	2	15A	LIGHTINGS
LIGHTINGS	15A	3	B	4	15A	LIGHTINGS
LIGHTINGS	15A	5	C	6	15A	LIGHTINGS
LIGHTINGS	15A	7	A	8	15A	LIGHTINGS
LIGHTINGS	15A	9	B	10	15A	LIGHTINGS
LIGHTINGS	15A	11	C	12	15A	SPARE
LIGHTINGS	15A	13	A	14	15A	LIGHTINGS
LIGHTINGS	15A	15	B	16	15A	LIGHTINGS
LIGHTINGS	15A	17	C	18	15A	LIGHTINGS
LIGHTINGS	15A	19	A	20	15A	LIGHTINGS
LIGHTINGS	15A	21	B	22	15A	LIGHTINGS
EXAM ROOM	15A	23	C	24	15A	EXAM ROOM
EXAM ROOM	15A	25	A	26	15A	EXAM ROOM
EXAM ROOM	15A	27	B	28	15A	LIGHTINGS
LIGHTINGS	15A	29	C	30	15A	LIGHTINGS
LIGHTINGS	15A	31	A	32	15A	LIGHTINGS
LIGHTINGS	15A	33	B	34	15A	SPARE
SPARE	15A	35	C	36	15A	SPARE
SPARE	15A	37	A	38	15A	SPARE
SPARE	15A	39	B	40	15A	SPARE
SPARE	15A	41	A	42	15A	SPARE
SPARE	15A	43	A	44	15A	SPARE
SPARE	15A	45	B	46	15A	SPARE
		47	C	48		
		49	A	50		
		51	B	52		
EXISTING CIRCUIT		53	C	54		EXISTING CIRCUIT
EXISTING CIRCUIT		55	A	56		EXISTING CIRCUIT
EXISTING CIRCUIT		57	B	58		EXISTING CIRCUIT
EXISTING CIRCUIT		59	C	60		EXISTING CIRCUIT

NOTES:
1. CIRCUIT BREAKERS SHALL BE RATED FOR 10kA RMS SYM I.C.
2. CONTRACTOR SHALL VERIFY THE EXACT QUANTITY OF EXISTING CIRCUIT AND BREAKER SIZE SHALL MATCH WITH EXISTING WITH NO COST IMPLICATION.

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PROJECT STATUS:

REVISIONS

NO	DESCRIPTION	DATE
1	Issued for Design Development Progress	2024.04.05
2	Issued for 100 DD	2024.05.10
3	Issued for 50% CD / Permit	2024.08.02
4	Issued for 90% CD	2024.09.06
5	Issued for 100% CD	2024.09.27
6	Issued for Tender	2024.10.11
7	Issued for Tender Addendum	2024.10.25
8	Issued for Tender Addendum No.2	2024.11.01
9	Issued for Tender Addendum No.4	2024.11.12
10	Issued for Tender Addendum No.5	2024.11.19

PROJECT:
UHN TWH - Seniors Emergency Medicine Centre
399 Bathurst Street, Toronto ON M5T 2S8
UHN PROJECT NO.: SAP #110022016

TITLE:
ELECTRICAL DETAILS AND PANEL SCHEDULES

PROJECT NO: MRK-23004289
CHECKED: M.S.
DRAWING NO: E-401

MECHANICAL EQUIPMENT SCHEDULE(BY OTHERS)

AIR HANDLING UNIT SCHEDULE - 1 of 2

SYSTEM REFERENCE TAG	DESCRIPTION	LOCATION	MANUFACTUR...	MODEL	AIR FLOW (CFM)	AIR FLOW (L/S)	OPERATION	AIRFLOW FRESH AIR %	SUPPLY FAN E.S.P. (Pa)	RETURN FAN E.S.P. (Pa)	PRE-HEATING COIL (GLYCOL 30% PG) TOTAL CAP. (KW)	EAT DB (°C)	LAT DB (°C)	EGT (°C)	LGT (°C)	PD (KPA)	FLOW (L/S)	COOLING COIL TOTAL (KW)	SENSIBLE (KW)	EAT DB (°C)	EAT WB (°C)	LAT DB (°C)	LAT WB (°C)	EGT (°C)	LGT (°C)	PD (KPA)	FLOW (L/S)
EW-AHU01B	EAST WING UNIT SERVING SEM CENTRE (L1), L2, L3 & L5	ROOF	HAAKON	APK	28605	13500	UNITS RUNNING IN PARALLEL (NORMAL MODE)	33%	672	374	87.0	-20.0	-14.7	51.7	25.3	1.2	0.83	253.3	200.8	24.3	17.7	12.2	12.1	8.3	17.2	12.6	7.6
					28605	13500	UNITS RUNNING IN PARALLEL (PANDEMIC MODE)	100%										3061.5	209.3	25.2	18.7	12.1	12.0	8.3	17.2	16.7	8.9
					57210	27000	EXISTING UNIT OUT OF SERVICE (NORMAL MODE)	33%										518.0	518.0	24.3	17.7	12.2	12.1	8.3	17.2	43.6	15.14
					57210	27000	EXISTING UNIT OUT OF SERVICE (PANDEMIC MODE)	100%			140.7	-20.0	-14.4	51.7	23.9	4.5	1.7	3061.5	-	31.1	23.3	TBD WITH ENERGY RECOVERY					
					57210	27000	INTERNAL CATASTROPHIC MODE (PANDEMIC MODE)	0%			N/A							3061.5	-	23.9	-	15.0	-	8.3	17.2	-	15.14

SYSTEM REFERENCE TAG	RE-HEATING COIL (GLYCOL 30% P) TOTAL CAP. (KW)	EAT DB (°C)	LAT DB (°C)	EGT (°C)	LGT (°C)	PD (KPA)	FLOW (L/S)	HUMIDIFICATION-STEAM TYPE	PRESSURE (PSI)	CAPACITY (KG/H)	WHEEL ENERGY... SUMMER (KW)	WINTER (KW)	ELECTRICAL POWER (V/PH/Hz)	MCA (A)	MOP (A)	ECONOMIZER (Y/N)	EMERGENCY POWER (Y/N)	FIRE SHUT DOWN (Y/N)	SILENCER INLET (Y/N)	OUTLET (Y/N)	UNIT WEIGHT (KG)	REMARKS
EW-AHU01B	52.9	10.0	14.1	51.7	32.2	0.3	0.8	LPS	10.0	94.0	258	622	575/3/60	188	225	Y	Y	TO MATCH EXISTING	Y	Y	41364	AHU C/W VESTIBULE IS DESIGNED WITH LADDER, PLATFORM FOR ACCESS BY THE MANUFACTURER
	459.1	-14.7	13.1	51.7	37.8	22.1	8.2															
	125.1	10.0	13.8	51.7	32.2	1.2	1.7															
	459.1	13.8	12.8	51.7	33.1	22.1	8.2															
	-	22.2	12.8	51.7	33.1						N/A											

NOTES:
1. OUTDOOR UNIT C/W VESTIBULE SHALL BE SUPPORTED ON STRUCTURAL SUPPORT AND SHALL BE COORDINATED ON SITE
2. VFD TO BE SUPPLIED AND BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR
3. UNIT SIZED WITH ECONOMIZER MODE
4. PROVIDE 25-50MM MINIMUM RUBBER/NEOPRENE PADS TO APPROVED BY THE UNIT MANUFATURER
5. PROVIDE MERV 14 MIN. FINAL FILTERS AND MERV 8 PRE-FILTERS
6. PROVIDE 1500 SILENCER FOR AIR INTAKE AND EXHAUST WITH 25% FREE AREA.
7. PROVIDE MIN. 2500MM WIDE VESTIBULE FOR THE AHU FOR MAINTENANCE C/W LOUVER AND HEATER TO BE SIZED BY THE MANUFACTURER. VESTIBULE SHALL BE HEATED. ELECTRICAL TO PROVIDE SEPARATE POWER FOR THE VESTIBULE.
8. DUAL SUPPLY FANS @50HP EACH, DUAL RETURN FANS @30HP EACH
9. 2HP WHEEL MOTOR WITH VFD
10. DEDICATED POWER FEED FOR AHU INCLUDING WHEEL
11. DEDICATED POWER FEED FOR UNIT LIGHTS 120 V POWER SUPPLY
12. DEDICATED POWER FEED FOR VESTIBULE LIGHTS 120V POWER SUPPLY
13. DEDICATED POWER FEED FOR VESTIBULE HEATER 120V POWER SUPPLY
14. UNIT OPERATION AT 57210 CFM @100% O/A WILL ACCOUNT FOR HEAT WHEEL, DESIGN FOR COILS IS FOR 3 MAIN SCINARIOS.

FORCE FLOW HEATER SCHEDULE

EQUIPMENT TAG	LOCATION	DESCRIPTION	MANUFACTURER	MODEL	AIRFLOW (L/S)	HEATING CAPACITY (KW)	FLUID EWT (°C)	FLUID LWT (°C)	FLUID FLOW (L/S)	PRESSURE DROP (kPa)	ELECTRICAL MOTOR (KW)	ELECTRICAL POWER (V/Ph/Hz)	EMERGENCY POWER (Y/N)	REMOTE THERMOSTAT (Y/N)	DIMENSIONS LENGTH (MM)	DIMENSIONS WIDTH (MM)	DIMENSIONS HEIGHT (MM)	WEIGHT (KG)	REMARKS
EW-FFH-01	EXIT 1EW436 (SEM CENTRE)	CEILING MOUNTED	SIGMA	SFF-A-02	104	4	66	54	0.1	0.07	0.075	120/1/60	Y	N	660	241	660	34.0	
FP-FFH-01	EXIT DOOR AT FP ROOF & STAIR	CEILING MOUNTED	SIGMA	SFF-A-02	104	4	66	54	0.1	0.71	0.075	120/1/60	Y	N	660	241	660	34.0	
FP-UH0101	LOWER LEVEL	CEILING MOUNTED	SIGMA	015H	132	4	66	54	0.18	2.09	0.037	120/1/60	Y	N	483	368	343	13.2	

NOTES: 1. C/W LOCALISED PACKAGED CONTROLS.

ENERGY RECOVERY VENTILATOR SCHEDULE (ERV)

SYSTEM REFERENCE TAG	DESCRIPTION	LOCATION	MANUFACTURER	MODEL	AIR FLOW (CFM)	AIR FLOW (L/S)	HEATING COIL (ELEC) TOTAL (KW)	ELECTRICAL (UNIT AND ELEC. HEATER) FLA (A)	MCA (A)	MROPD (A)	POWER (V/Hz/PH)	EMERGENCY POWER (Y/N)	FIRE SHUT DOWN (Y/N)	UNIT WEIGHT (KG)	REMARKS
FP-AH12ERV-1	ENERGY RECOVERY	CEILING MOUNTED	OXYGEN 8	A16IN	500	236	2.00	14.9	18.3	20	208/60/1	Y	Y	200.0	
FP-AH14ERV-1	ENERGY RECOVERY	CEILING MOUNTED	OXYGEN 8	A16IN	500	236	2.00	14.9	18.3	20	208/60/1	Y	N	200.0	

NOTES:
1.ERV DESIGNED WITH FAN AND ELEC. HEATER FOR PRE HEAT
2. PROVIDE ECM MOTOR
3. ALL UNITS TO HAVE BOTTOM ACCESS FOR SERVICE.
4. MERV 13/8 FILTERS
5. MAIN POWER WILL FEED THE ELEC. HEATER AND ELECTRICAL CONTRACTOR TO PROVIDE WIRING FROM HEATER TO THE UNIT
6. MAINTAIN CLEARANCE AS REQUIRED, UNIT TO BE INSTALLED SUCH A WAY THAT IT CAN BE DROPPED FOR MAINTENANCE WITHOUT PIPING REWORK.

ELECTRIC HEAT TRACING SCHEDULE

REFERENCE TAG	MANUFACTURER	MODEL	DESCRIPTION	LENGTH (M)	REQUIRED OUTPUT (W/M)	ELECTRIC... V/PH/HZ	EMERGENCY POWER (Y/N)	REMARKS
ETC-01	RAYCHEM	5XLE2-CR	SERVING CORRIDOR CANOPY	32.6	10	208/1/60	Y	CONTROLLER C910-485 RAYCHEM

NOTES:
1. PROVIDE CABLE SEGMENTS AS REQUIRED TO COMPLETELY TRACE PIPING RUN AS INDICATED ON DRAWINGS.
2. PROVIDE RAYCLIC (OR EQUIVALENT) POWERED AND UN-POWERED CONNECTIONS AND SUPPORTS AS REQUIRED TO PROVIDE COMPLETE SYSTEM.
3. PICK-UP DRY CONTACTS AT EACH CONTROLLER TO ALARM BAS ON ANY TROUBLE SIGNAL.
4. COMMUNICATIONS CABLE IS REQUIRED TO BE EXTENDED FROM PIPE MOUNTED RTD BACK TO CONTROLLER. ALLOW FOR SUFFICENT CONTROLS CABLING AND CONDUIT.
5. CONTROLS CABLE TO BE IN CONDUIT
6. HEAT TRACING AND PIPE SYSTEMS ARE DESIGNED FOR -23°C (-10°F) AMBIENT TEMPERATURE.
7. THIS SCHEDULE IS TO BE READ IN CONJUNCTION WITH SPECIFICATION 20 05 25 REGARDING STANDARDS FOR PIPE INSULATION.

AIR CURTAIN SCHEDULE (ELECTRIC)

SYSTEM REFERENCE TAG	LOCATION	DESCRIPTION	MANUFACTURER	MODEL	AIRFLOW (L/S)	HEATING CAPACITY (KW)	ELECTRICAL MOTOR (KW)	ELECTRICAL POWER (V/Ph/Hz)	EMERGENCY POWER (Y/N)	REMOTE THERMOSTAT (Y/N)	UNIT NZ WIDTH (MM)	UNIT WIDTH (MM)	UNIT HEIGHT (MM)	UNIT DEPTH (MM)	WEIGHT (KG)	REMARKS
FP-ACH11	CORRIDOR EAST DOOR	CEILING MOUNTED	POWERED AIRE	CHA-2-72 (E)	1659	20	2 x 0.75	575/3/60	Y	N	1800	1900	426	515	182	

NOTES:
1. UNIT IS C/W LOCAL CONTROL PANEL/DISCONNECT WITH BACnet CARD TO BE CONNECTED TO BAS CONTROLS
2. MECHANICAL CONTRACTOR TO INCLUDE FOR STEP DOWN TRANSFORMER IF REQUIRED AND ELEC. TO PROVIDE POWER.
3. INTERLOCK UNIT WITH CONCEALED DOOR SWITCH AND UNIT TO BE BOTTOM SUPPLY AND BOTTOM RETURN.
4. UNIT COLOR TO BE COORDINATED ON SITE AND WITH ARCH. BEFORE ORDERING
5. FOR EQUALS OR ALTERNATES - THE MIN LENGTH WILL BE TO COVER THE DOOR OPENING AND IF THE UNIT IS LONGER ITS TO BE ACCEPTED BY THE CONSULTANTS.
6. MOUNTING AS PER MANUFACTURER RECOMMENDATION

FAN SCHEDULE

SYSTEM REFERENCE TAG	DESCRIPTION	LOCATION	MANUFACTURER	MODEL	AIR FLOW (CFM)	AIR FLOW (L/S)	FAN E.S.P. (Pa)	MIN OUTLET VELOCITY (M/S)	ELECTRICAL POWER (V/Hz/PH)	ELECTRICAL FLA (A)	FAN EFFICIENCY %	EMERGENCY POWER (Y/N)	FIRE SHUT DOWN (Y/N)	UNIT WEIGHT (KG)	REMARKS
EW-EF-14	WASHROOM EXH.	ROOF	PENNBARRY	D10	700	330	374	8	575/60/3	0.9	1.18	Y	N	13.6	
EW-EF-13A & 13B	ISOLATION EXH.	ROOF	PENNBARRY	D08	850	401	747	8	575/60/3	2.4	99.00	Y	N	16.8	
EW-EF-6A & 6B	EXISTING TB EXHAUST SYSTEM	ROOF	PENNBARRY	VCR-SWSI-AF 222	7842	3,701	1643	8	575/60/3	17.0	1.26	Y	N	90.7	EXISITNG FANS TO BE REPLACED WITH NEW FANS TO ADD HEPA FILTERS IN THE...

NOTES:
1. ALL ROOF MOUNTED FANS C/W 450 MM HIGH ROOF CURB.
2. DIRECT DRIVE WITH EC MOTOR.
3. PROVIDE WEATHER PROOF DISCONNECTS FOR ALL OUTDOOR FANS.
4. PROVIDE LOCAL DISCONNECTS FOR CEILING/ROOF MOUNTED FANS
5. PROVIDE VFDS FOR ALL FANS IN THE PENTHOUSE AND LOCAL DISCONNECT. COORDINATE EXACT LOCATION ON SITE
6. EXHAUST STACK SHOULD BE MINIMUM 3M ABOVE ANY NEARBY AIR INTAKE (EW-AHU-01b)
7. FAN/STACK SUPPORTS SHALL BE PROVIDED

FAN COIL UNIT SCHEDULE (2P CHILLED WATER)

SYSTEM REFERENCE TAG	DESCRIPTION	LOCATION	MANUFACTURER	MODEL	AIR FLOW (CFM)	AIR FLOW (L/S)	UNIT E.S.P. (Pa)	COOLING COIL TOTAL (KW)	SENSIBLE (KW)	EWT (°C)	LWT (°C)	FLOW (L/S)	PD (KPA)	ELECTRICAL FLA (A)	MCA (A)	MROPD (A)	POWER (V/Hz/PH)	EMERGENCY POWER (Y/N)	FIRE SHUT DOWN (Y/N)	UNIT WEIGHT (KG)	REMARKS
EW-FCU-01	IT ROOM COOLING UNIT	IT ROOM	IEC	HYL16	1478	698	50	13.84	13.36	5.6	12.2	0.49	9.27	11.4	12.825	20	115/60/1	N	Y	102.06	

NOTES:
1. FAN COIL UNIT TO BE COMPLETE WITH 2" (50MM) MERV 13 FILTER SECTION.
2. PROVIDE ECM MOTOR
3. FAN COIL UNIT TO HAVE BOTTOM ACCESS FOR SERVICE.
4. FCU IS COMPLETE WITH DRAIN PAN AND DRAIN PUMP

AIR COOLED CONDENSING UNIT SCHEDULE

SYSTEM REFERENCE TAG	AC INDOOR UNIT REFERENCE	LOCATION	MANUFACTURER	MODEL	NOMINAL COOLONG CAPACITY (KW)	ELECTRICAL MOP AMPS	ELECTRICAL MCA AMPS	ELECTRICAL VOLTAGE V/PH/Hz	EMERGENCY POWER (Y/N)	FIRE ALARM SHUT DOWN (Y/N)	WEIGHT (KG)	REMARKS
FP-AH12-CU	FP-AH12	OUTDOOR	REFPLUS	OEZ-050-1H1-5D	15.94	40	26.38	208/60/3	Y	N	172	
FP-AH13-CU	FP-AH13	OUTDOOR	REFPLUS	OEZ-050-1H1-5D	15.94	40	26.38	208/60/3	Y	N	172	
FP-AH14-CU	FP-AH14	OUTDOOR	REFPLUS	OEZ-050-1H1-5D	15.94	40	26.38	208/60/3	Y	N	172	

NOTES:
1. REFRIGERANT SHALL BE R410A OR ANY LATEST REF. AVAILABLE AS LONG AS THE UNIT CAPACITY AND SIZING IS MET.
2. CONTRACTOR TO COORDINATE ON SITE FOR THE REFRIGERANT PIPING SIZE AND INSTALLATION BASED ON MANUFACTURER RECOMMENDATION.
3. MECHANICAL CONTRACTOR TO COORDINATE WALL, CEILING AND ROOF PENETRATIONS AND ELECTRICAL REQUIREMENTS ON SITE.
4. REFER TO ASSOCIATED INDOOR UNIT SCHEDULE FOR COMPLETE SYSTEM INFORMATION.
5. UNITS COMPLETE WITH LOW-AMBIENT KIT. FINAL LOCATION AND ENCLOSURE TO BE COORDINATED WITH ARCH. DRAWINGS

CEILING MOUNTED VENTILATION UNIT SCHEDULE

SYSTEM REFERENCE TAG	DESCRIPTION	LOCATION	MANUFACTURER	MODEL	AIR FLOW (CFM)	AIR FLOW (L/S)	UNIT E.S.P. (Pa)	COOLING COIL (DX) TOTAL (KW)	SENSIBLE (KW)	EAT DB (°C)	EAT WB (°C)	LAT DB (°C)	LAT WB (°C)	HEATING COIL (30% P GLY) TOTAL (KW)	EAT DB (°C)	LAT DB (°C)	EWT (°C)	LWT (°C)	FLOW (L/S)	PD (KPA)	SILENCER INLET (Y/N)	DISCHARGE (Y/N)	ELECTRICAL MCA (A)	MROPD (A)	POWER (V/Hz/PH)	EMERGENCY POWER (Y/N)	FIRE SHUT DOWN (Y/N)	UNIT WEIGHT (KG)	REMARKS
FP-ACH12	CORRIDOR VENT.	CORRIDOR CEILING MOUNTED	DAIKIN	BCHD0161	1500	708	124	15.6	13	26.7	18.3	12.0	11.7	5.4	21.10	27.3	50.7	37.8	0.095	0.81	N	N	19.8	25	115/60/1	Y	N	216	
FP-ACH13	CORRIDOR VENT.	CORRIDOR CEILING MOUNTED	DAIKIN	BCHD0161	1500	708	124	15.6	13	26.7	18.3	12.0	11.7	5.4	21.10	27.3	50.7	37.8	0.095	0.81	N	N	19.8	25	115/60/1	Y	N	216	
FP-ACH14	CORRIDOR VENT.	CORRIDOR CEILING MOUNTED	DAIKIN	BCHD0161	1500	708	124	15.6	13	26.7	18.3	12.0	11.7	5.4	21.10	27.3	50.7	37.8	0.095	0.81	N	N	19.8	25	115/60/1	Y	N	216	

NOTES:
1. UNITS TO BE COMPLETE WITH 2" (50MM) MERV 13 FILTER SECTION.
2. PROVIDE ECM MOTOR
3. ALL UNITS TO HAVE BOTTOM ACCESS FOR SERVICE AND INSTALLED IN SUCH A WAY THAT THE UNIT CAN BE DROPPED DOWN FOR MAINTENANCE WITHOUT THE PIPING REWORK.
4. REFER TO FLOOR PLANS FOR LOCATIONS AND PROVIDE REQUIRED CLEARANCE AS PER THE MANUFACTURER RECOMMENDATION
5. REFER TO CONDENSING UNIT SCHEDULE FOR OUTDOOR UNITS.
6. FCUS ARE COMPLETE WITH DRAIN PAN AND LEAK DETECTION

PUMP SCHEDULE (HYDRONIC SYSTEM)

SYSTEM REFERENCE TAG	DESCRIPTION SYSTEM	LOCATION	MANUFACTURER	MODEL	FLUID TYPE	FLOW RATE (L/S)	PUMP HEAD (KPA)	MOTOR SIZE MOTOR POWER (KW)	MOTOR SIZE DUTY POINT POWER (KW)	ELECTRICAL (V/PH/Hz)	VFD (Y/N)	OPERATION (DUTY/STANDBY)	PRESSURE RATING (KPA)	EMERGENCY POWER (Y/N)	REMARKS
EW-P-AHU-01B	COOLING PUMP	AHU VESTIBULE	BELL & GOSSETT	E-80 SERIES 4X4X7B	30% P.G.	15	82	2.2	2.0	575/3/60	Y	DUTY	1207	Y	

NOTES:
1. BAS INTERFACE FOR SETPOINT MONITORING, ALARM, ETC.
2. PUMP COMPLETE WITH VFD. MECHANICAL CONTRACTOR TO SUPPLY AND ELECTRICAL CONTRACTOR TO INSTALL THE VFD.
3. PROVIDE SUCTION GUIDE & FLO-TREX VALVE
4. PROVIDE 25-50MM RUBBER/NEOPRENE PADS, THE PUMP IS TO BE INSTALLED INTEGRAL TO THE UNIT VESTIBULE AND COODINATED BY AHU UNIT SUPPLIER. CONTRACTOR TO PROVIDE PROPER CLEARANCE FOR MAINTENANCE.

ELECTRIC HEAT TRACING SCHEDULE

TAG	SERVICE	PIPE DIAMETER (mm)	PIPE LENGTH (FT)	PIPE LENGTH (m)	ELECTRICAL V/Ph/Hz	EMERGENCY POWER (Y/N)	COMMENTS
ETC-01	CHILLED WATER	150	64.0	19.5	208/1/60	Y	

NOTES:
1. PROVIDE CABLE SEGMENTS AS REQUIRED TO COMPLETELY TRACE PIPING RUN AS INDICATED ON DRAWINGS.
2. PROVIDE RAYCLIC (OR EQUIVALENT) POWERED AND UN-POWERED CONNECTIONS AND SUPPORTS AS REQUIRED TO PROVIDE COMPLETE SYSTEM.
3. PICK-UP DRY CONTACTS AT EACH CONTROLLER TO ALARM BAS ON ANY TROUBLE SIGNAL.
4. COMMUNICATIONS CABLE IS REQUIRED TO BE EXTENDED FROM PIPE MOUNTED RTD BACK TO CONTROLLER. ALLOW FOR SUFFICENT CONTROLS CABLING AND CONDUIT.
5. CONTROLS CABLE TO BE IN CONDUIT
6. HEAT TRACING AND PIPE SYSTEMS ARE DESIGNED FOR -10°F AMBIENT TEMPERATURE.
7. THIS SCHEDULE IS TO BE READ IN CONJUNCTION WITH SPECIFICATION 20 07 00 REGARDING STANDARDS FOR PIPE INSULATION.

PLUMBING & DRAINAGE PUMPS

REFERENCE TAG	SERVICE	LOCATION	TYPE	FLOW RATE L/S	HEAD PRESSURE KPA	RPM	MANUFACTURER-MODEL	MOTOR SIZE KW (HP)	ELECTRICAL POWER SUPPLY (V/PH/HZ)	STARTER TYPE	WEIGHT (KG)	EMERGENCY POWER(Y/N)	COMMENTS
PP-01	DHW RECIRCULATION	LEVEL 0	RECIRCULATION	1.30	110	3450	TACO - VR15H	0.9	208/1/60	-	14	NO	
SP-1	SANITARY	FOUNDATION	SUBMERSIBLE	4.7	105	3450	ZOELLER - 6294	1.11 kW	208/3/60	-	44	YES	DUTY C/W GUIDE RAIL Z-RAIL 39-0129 STEP DOWN TRANSFORMER (600V/208V) TO BE SUPPLIED BY MANUFACTURER.
SP-2	SANITARY	FOUNDATION	SUBMERSIBLE	4.7	105	3450	ZOELLER - 6294	1.11 kW	208/3/60	-	44	YES	STAND-BY C/W GUIDE RAIL Z-RAIL 39-0129 STEP DOWN TRANSFORMER (600V/208V) TO BE SUPPLIED BY MANUFACTURER.
SP-3	SANITARY	FOUNDATION	SUBMERSIBLE	4.7	120	3450	ZOELLER - J6294	1.11 kW	208/3/60	-	44	YES	DUTY C/W GUIDE RAIL Z-RAIL 39-0129 STEP DOWN TRANSFORMER (600V/208V) TO BE SUPPLIED BY MANUFACTURER.
SP-4	SANITARY	FOUNDATION	SUBMERSIBLE	4.7	120	3450	ZOELLER - J6294	1.11 kW	208/3/60	-	44	YES	STAND-BY C/W GUIDE RAIL Z-RAIL 39-0129 STEP DOWN TRANSFORMER (600V/208V) TO BE SUPPLIED BY MANUFACTURER.

NOTES:

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PROJECT STATUS:

REVISIONS

NO	DESCRIPTION	DATE
1	Issued for Design Development Progress	2024.04.05
2	Issued for 100 DD	2024.05.10
3	Issued for 50% CD / Permit	2024.08.02
4	Issued for 90% CD	2024.09.06
5	Issued for 100% CD	2024.09.27
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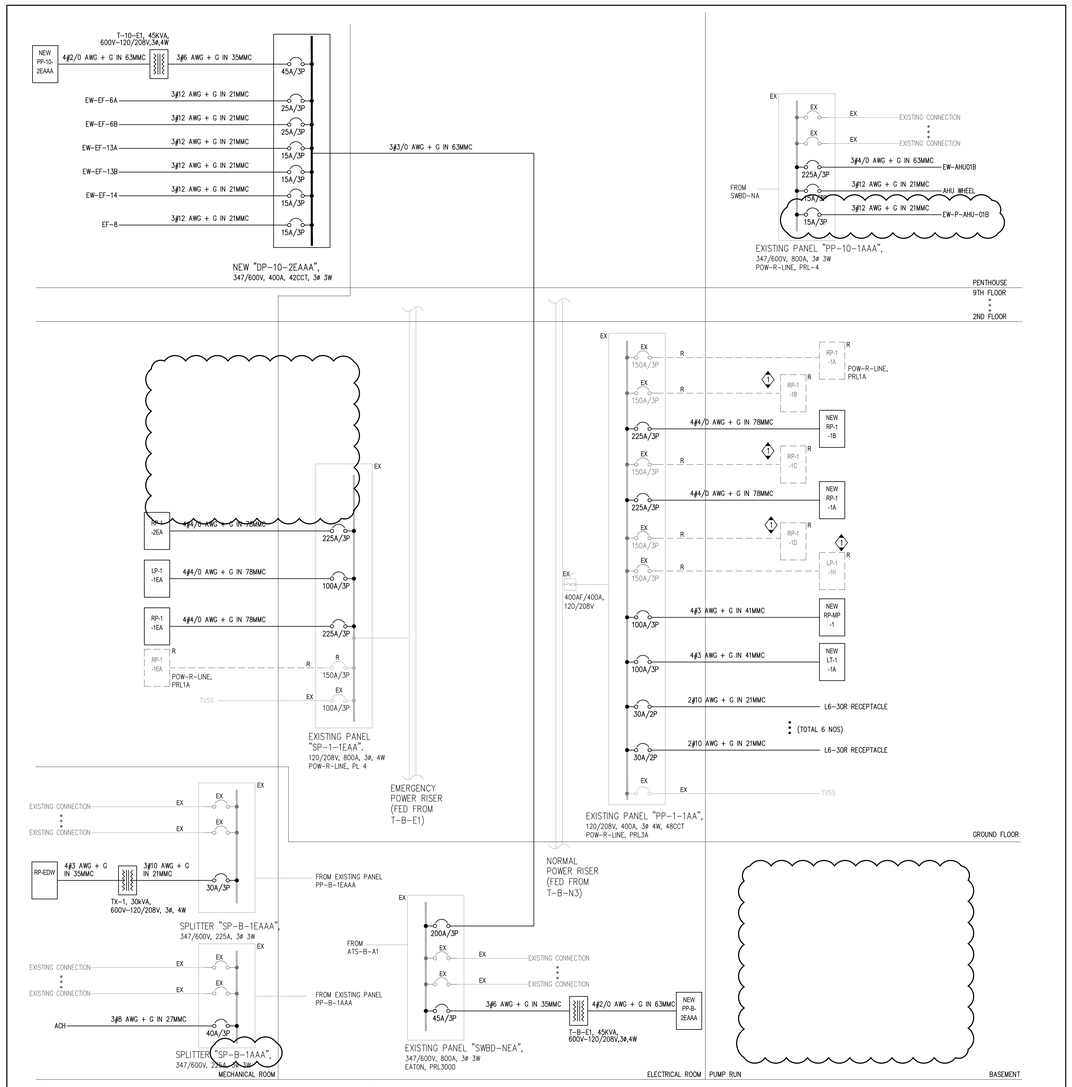
7	Issued for Tender Addendum	2024.10.25
8	Issued for Tender Addendum No.2	2024.11.01
9	Issued for Tender Addendum No.5	2024.11.19

PROJECT:
UHN TWH - Seniors Emergency Medicine Centre
399 Bathurst Street, Toronto ON M5T 2S8
UHN PROJECT NO.: SAP #110022016

TITLE:
MECHANICAL EQUIPMENT SCHEDULES

PROJECT NO: MRK-23004289
CHECKED: M.S.
DRAWING NO: E-402



NOTES:

1. THIS PARTIAL POWER DISTRIBUTION RISER DIAGRAM IS SHOWN FOR INFORMATION PURPOSES ONLY. THIS DIAGRAM HAS BEEN REPRODUCED FROM THE BASE BUILDING DRAWING AND SITE SURVEYS. ELECTRICAL CONTRACTOR TO VERIFY EXISTING CONDITIONS ON SITE.
2. VERIFY THE EXISTING FEEDER CONDUIT AND WIRING PRIOR TO CONNECTING THE LOAD. REPLACE THE CONDUIT AND WIRING TO SUIT NEW LOAD.
3. FIRE RESISTANCE CABLE TO BE PROVIDE FOR EMERGENCY POWER DISTRIBUTION.

KEYNOTES:

1. EXISTING PANEL TO BE REMOVED ENTIRELY, ALL EXISTING OPERATING CIRCUITS SERVING OUT OF SCOPE AREA TO BE EXTENDED AND DIVERTED TO NEW PANELS

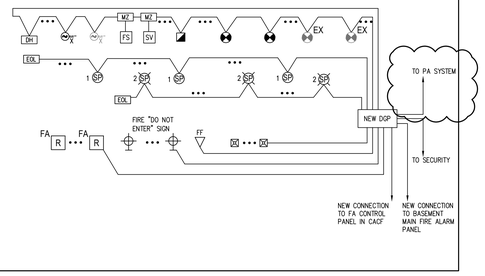
1 / E501 SENIOR EMERGENCY CENTER – PARTIAL POWER DISTRIBUTION RISER DIAGRAM
SCALE: N.T.S.

FIRE ALARM CONTROL NOTES:

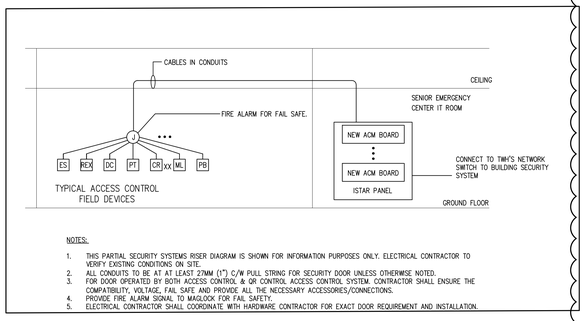
1. DOORS EQUIPPED WITH ELECTROMAGNETIC HOLD-OPEN DEVICES CONNECTED TO FIRE ALARM SYSTEM WILL BE AUTOMATICALLY RELEASED UPON ALERT SIGNAL(FIRST STAGE).
   - DEDICATED FIRE ALARM DETECTORS TO BE PROVIDED ON BOTH SIDE OF THE DOOR IF THE DOORS ARE FIRE COMPARTMENT DOORS OR SMOKE CONTROL DOORS
2. DOORS EQUIPPED WITH MAGLOCKS SHALL BE RELEASED:
   - UPON ACTIVATION OF ALARM SIGNAL (SECOND STAGE) FOR THE AREAS CLASSIFIED AS "CARE OCCUPANCY" IN CONFORMANCE WITH ONTARIO BUILDING CODE.
   - UPON ACTIVATION OF ALERT SIGNAL (FIRST STAGE) FOR ALL OTHER AREAS EXCEPT FOR AREAS DESIGNATED AS "CONTAINED USE AREA OR AN IMPEDED EGRESS ZONE".
   - FOR MAGLOCKS INSTALLED IN "CONTAINED USE AREAS OR AN IMPEDED EGRESS ZONES", THE MAGLOCKS SHALL BE RELEASED EITHER LOCALLY OR REMOTELY IN CONFORMANCE WITH ONTARIO BUILDING CODE 3.3.1.11.2.
   - MANUAL PULL STATION TO BE PROVIDED ON SECURE SIDE OF THE DOOR TO RELEASE MAGLOCK
3. PROVIDE FIRE RATED CABLES AS REQUIRED BY LOCAL CODE AND AUTHORITY HAVING JURISDICTION.
4. SPRINKLER SYSTEM FLOW SWITCHES, PRESSURE SWITCHES AND SUPERVISED VALVES SHALL BE INTERFACED WITH FIRE ALARM SYSTEM.
5. ALL SMOKE CONTROL DAMPERS SHALL BE INTERFACED WITH FIRE ALARM SYSTEM.
6. PROVIDE NEW FIRE ALARM ZONES FOR SENIOR EMERGENCY AREA AND LINK CORRIDOR.

NOTES:

1. PROVIDE FIRE ALARM SIGNAL TO PA SYSTEM FOR OVERRIDE.



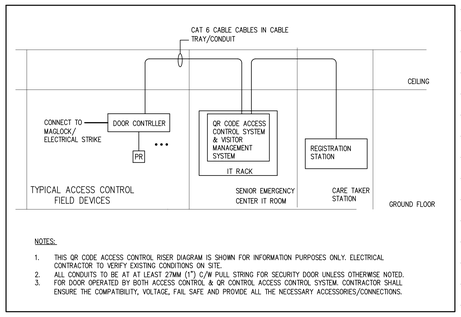
2 / E501 DETAIL OF TYPICAL FIRE ALARM CIRCUIT
SCALE: N.T.S.



NOTES:

1. THIS PARTIAL SECURITY SYSTEMS RISER DIAGRAM IS SHOWN FOR INFORMATION PURPOSES ONLY. ELECTRICAL CONTRACTOR TO VERIFY EXISTING CONDITIONS ON SITE.
2. ALL CONDUITS TO BE AT AT LEAST 27MM (1") C/W PULL STRING FOR SECURITY DOOR UNLESS OTHERWISE NOTED.
3. FOR DOOR OPERATED BY BOTH ACCESS CONTROL & QR CONTROL ACCESS CONTROL SYSTEM. CONTRACTOR SHALL ENSURE THE COMPATIBILITY, VOLTAGE, FAIL SAFE AND PROVIDE ALL THE NECESSARY ACCESSORIES/CONNECTIONS.
4. PROVIDE FIRE ALARM SIGNAL TO MAGLOCK FOR FAIL SAFETY.
5. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH HARDWARE CONTRACTOR FOR EXACT DOOR REQUIREMENT AND INSTALLATION.

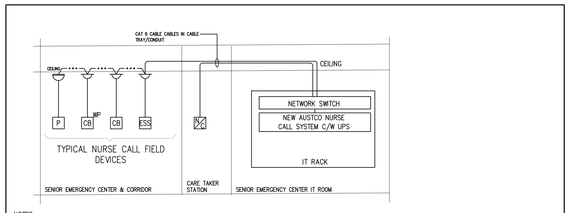
4 / E501 SENIOR EMERGENCY CENTER – PARTIAL SECURITY/ACCESS CONTROL RISER DIAGRAM
SCALE: N.T.S.



NOTES:

1. THIS QR CODE ACCESS CONTROL RISER DIAGRAM IS SHOWN FOR INFORMATION PURPOSES ONLY. ELECTRICAL CONTRACTOR TO VERIFY EXISTING CONDITIONS ON SITE.
2. ALL CONDUITS TO BE AT AT LEAST 27MM (1") C/W PULL STRING FOR SECURITY DOOR UNLESS OTHERWISE NOTED.
3. FOR DOOR OPERATED BY BOTH ACCESS CONTROL & QR CONTROL ACCESS CONTROL SYSTEM. CONTRACTOR SHALL ENSURE THE COMPATIBILITY, VOLTAGE, FAIL SAFE AND PROVIDE ALL THE NECESSARY ACCESSORIES/CONNECTIONS.

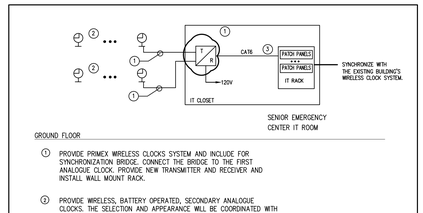
5 / E501 PATIENT TRANSFER QR CODE ACCESS CONTROL RISER DIAGRAM
SCALE: N.T.S.



NOTES:

1. PROVIDE COMPLETE, FUNCTIONAL AND FULLY ADDRESSABLE AUSTCO NURSE CALL SYSTEM.
2. ALL CONDUITS TO BE MINIMUM 27MM (3/4") UNLESS OTHERWISE NOTED.
3. AUSTCO CABINET TO INCLUDE UPS AS REQUIRED.

5 / E501 NURSE CALL RISER DIAGRAM
SCALE: N.T.S.



① PROVIDE PRIMEX WIRELESS CLOCKS SYSTEM AND INCLUDE FOR SYNCHRONIZATION BRIDGE. CONNECT THE BRIDGE TO THE FIRST ANALOGUE CLOCK. PROVIDE NEW TRANSMITTER AND RECEIVER AND INSTALL WALL MOUNT RACK.

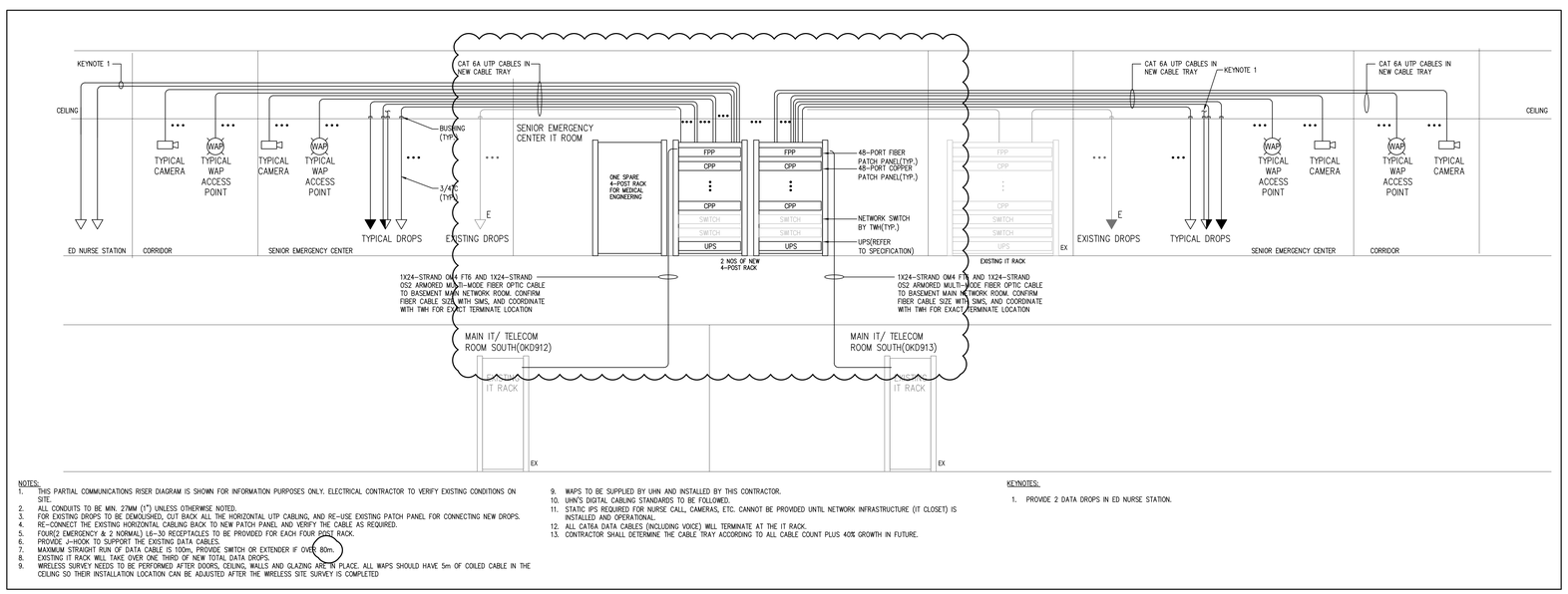
② PROVIDE WIRELESS, BATTERY OPERATED, SECONDARY ANALOGUE CLOCKS. THE SELECTION AND APPEARANCE WILL BE COORDINATED WITH THE HOSPITAL PRIOR ORDERING.

③ CONNECT THE CLOCK SYSTEM TO HOSPITAL LAN VIA CAT 6 CABLING.

NOTES:

1. PROVIDE ALL NECESSARY CABLING/EQUIPMENT/POWER CONNECTION TO SYNCHRONIZE WITH THE EXISTING BUILDING'S WIRELESS CLOCK SYSTEM.

6 / E501 MASTER CLOCK SYSTEM RISER DIAGRAM
SCALE: N.T.S.



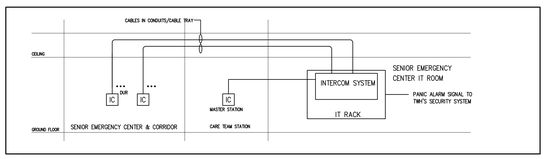
NOTES:

1. THIS PARTIAL COMMUNICATIONS RISER DIAGRAM IS SHOWN FOR INFORMATION PURPOSES ONLY. ELECTRICAL CONTRACTOR TO VERIFY EXISTING CONDITIONS ON SITE.
2. ALL CONDUITS TO BE MIN. 27MM (1") UNLESS OTHERWISE NOTED.
3. FOR EXISTING DROPS TO BE DEMOLISHED, CUT BACK ALL THE HORIZONTAL UTP CABLING, AND RE-USE EXISTING PATCH PANEL FOR CONNECTING NEW DROPS.
4. RE-CONNECT THE EXISTING HORIZONTAL CABLING BACK TO NEW PATCH PANEL AND VERIFY THE CABLE AS REQUIRED.
5. FOUR(2 EMERGENCY & 2 NORMAL) L6-30 RECEPTACLES TO BE PROVIDED FOR EACH FOUR POST RACK.
6. PROVIDE J-HOOK TO SUPPORT THE EXISTING DATA CABLES.
7. MAXIMUM STRAIGHT RUN OF DATA CABLE IS 100m, PROVIDE SWITCH OR EXTENDER IF OVER 80m.
8. EXISTING IT RACK WILL TAKE OVER ONE THIRD OF NEW TOTAL DATA DROPS.
9. WIRELESS SURVEY NEEDS TO BE PERFORMED AFTER DOORS, CEILING, WALLS AND GLAZING ARE IN PLACE. ALL WAPS SHOULD HAVE 5m OF COILED CABLE IN THE CEILING SO THEIR INSTALLATION LOCATION CAN BE ADJUSTED AFTER THE WIRELESS SITE SURVEY IS COMPLETED
9. WAPS TO BE SUPPLIED BY UHN AND INSTALLED BY THIS CONTRACTOR.
10. UHN'S DIGITAL CABLING STANDARDS TO BE FOLLOWED.
11. STATIC IPS REQUIRED FOR NURSE CALL, CAMERAS, ETC. CANNOT BE PROVIDED UNTIL NETWORK INFRASTRUCTURE (IT CLOSET) IS INSTALLED AND OPERATIONAL.
12. ALL CAT6A DATA CABLES (INCLUDING VOICE) WILL TERMINATE AT THE IT RACK.
13. CONTRACTOR SHALL DETERMINE THE CABLE TRAY ACCORDING TO ALL CABLE COUNT PLUS 40% GROWTH IN FUTURE.

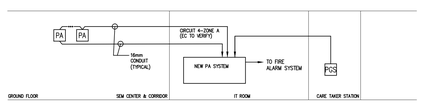
KEYNOTES:

1. PROVIDE 2 DATA DROPS IN ED NURSE STATION.

3 / E501 SENIOR EMERGENCY CENTER – PARTIAL COMMUNICATIONS RISER DIAGRAM
SCALE: N.T.S.



7 / E501 INTERCOM SYSTEM RISER DIAGRAM
SCALE: N.T.S.



NOTE:

1. PROVIDE NEW PA SYSTEM DEDICATED FOR SENIOR EMERGENCY CENTER.
2. INCLUDING ALL NECESSARY WIRING, COMPONENTS & ACCESSORIES FOR A STANDALONE SYSTEM.
3. PROVIDE DEDICATED LAN PORT FOR AUDIO AND IP BROADCAST.
4. COORDINATE QUANTITY OF ZONES AND HEAD-END LOCATION PRIOR INSTALLATION.
5. COORDINATE CALL SEQUENCING PRIOR INSTALLATION.
6. PROVIDE UL LISTED EXTENSION FOR FA ANNUNCIATION OR TO BE OVERRIDE IN CASE OF FIRE ALARM ALERT.
7. PROVIDE INTEGRATION W/ VOIP PHONES AND NURSE CALL.

8 / E501 PAGING SYSTEM RISER DIAGRAM
SCALE: N.T.S.

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PROJECT STATUS:

REVISIONS

NO	DESCRIPTION	DATE
1	Issued for Design Development Progress	2024.04.05
2	Issued for 100 DD	2024.05.10
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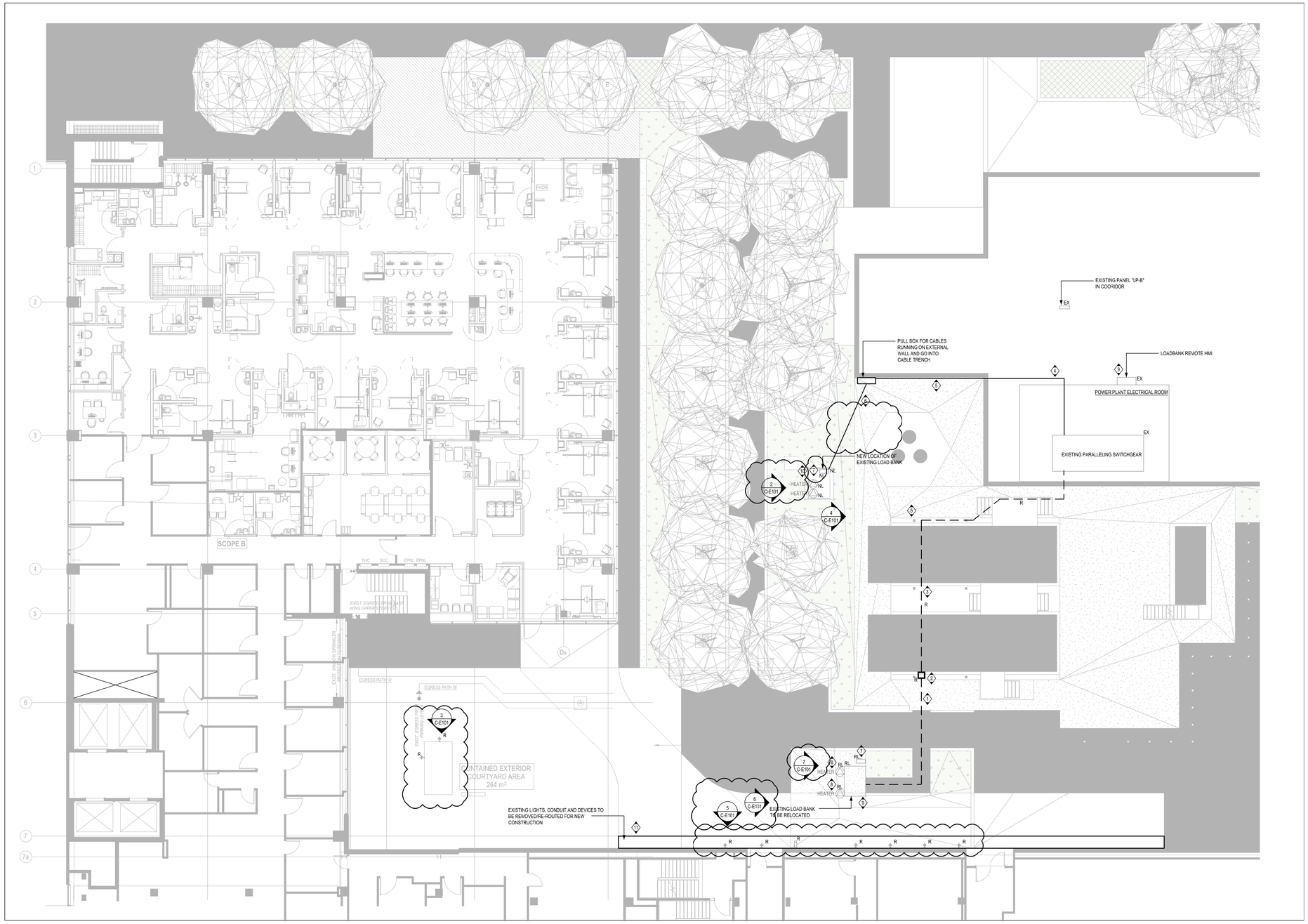
7	Issued for Tender Addendum	2024.10.25
8	Issued for Tender Addendum No.2	2024.11.01
9	Issued for Tender Addendum No.4	2024.11.12
10	Issued for Tender Addendum No.5	2024.11.19

PROJECT:
UHN TWH - Seniors Emergency Medicine Centre
399 Bathurst Street, Toronto ON M5T 2S8
UHN PROJECT NO.: SAP #110022016

TITLE:
ELECTRICAL RISER DIAGRAM

PROJECT NO: MRK-23004289
CHECKED: M.S.
DRAWING NO: E-501

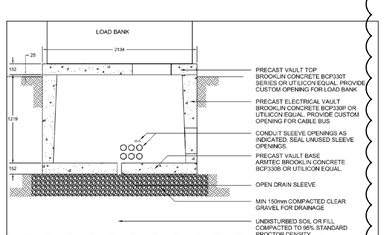


1 GROUND FLOOR OVERALL PLAN - ELECTRICAL
1 : 100

KEYNOTES

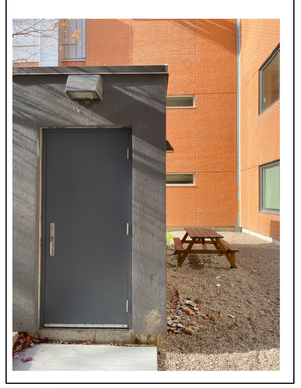
1. EXISTING CABLEBUS TO LOAD BANK IN PRE-FABRICATED CONCRETE TRENCH TO BE REMOVED BACK TO SOURCE.
2. EXISTING CABLEBUS FROM HIGH LEVEL TURN INTO PRE-FABRICATED CONCRETE TRENCH
3. EXISTING CABLEBUS AT HIGH LEVEL TO BE REMOVED BACK TO SOURCE.
4. NEW CABLEBUS AT HIGH LEVEL ON CABLE TRAY WITH SUPPORTING.
5. NEW CABLEBUS ON TRAY WITH WALL MOUNTED SUPPORTING ON EXTERNAL WALL.
6. NEW CABLEBUS TO LOAD BANK IN PRE-FABRICATED CONCRETE TRENCH AND VENTILATED COVER.
7. THE EXISTING WALL PACK TO BE RELOCATE). EXTEND THE EXISTING WIRING AND CONDUIT TO THE NEW LOCATION WALL PACK. CONTRACTOR TO ENSURE THE FIXTURE TO BE OPERATIONAL.
8. EXISTING TWO POWER CONNECTIONS TO HEATERS, CCT. LP-B-14 & 16. EXTEND THE WIRING AND CONDUIT TO THE NEW LOCATION.CONTRACTOR TO ENSURE THE FIXTURE TO BE OPERATIONAL.
9. 16C #12AWG FRP 120V POWER & CONTROLS CABLE BETWEEN LOAD BANK AND LOAD BANK REMOTE HMI. EXTEND THE CABLE TO THE NEW LOAD BANK LOCATION.
10. PROVIDE PRECAST CONCRETE TRANSFORMER VAULT BELOW LOAD BANK FOR CONNECTION OF CABLE BUS CABLES WITH LOAD BANK. REFER TO DETAIL ON DRAWING C-E101.

REFER TO DRAWINGS E-1C1, E-102 & E-103 FOR THE GENERLA NOTES.



NOTES:
1. COORDINATE OPENINGS WITH LOAD BANK AND CABLEBUS SHOP DRAWINGS

2 PRECAST LOAD BANK VAULT
N.T.S



3 SITE PHOTO
N.T.S

4 SITE PHOTO
N.T.S

5 SITE PHOTO
N.T.S

6 SITE PHOTO
N.T.S

7 LOAD BANK PHOTO
N.T.S

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PROJECT STATUS:

REVISIONS

NO	DESCRIPTION	DATE
1	Issued for Permit	2024.04.05
2	Issued for 90% CD	2024.09.06
3	Issued for 100% CD	2024.09.27
4	Issued for Tender	2024.10.11
5	Issued for Tender Addendum No.5	2024.11.19

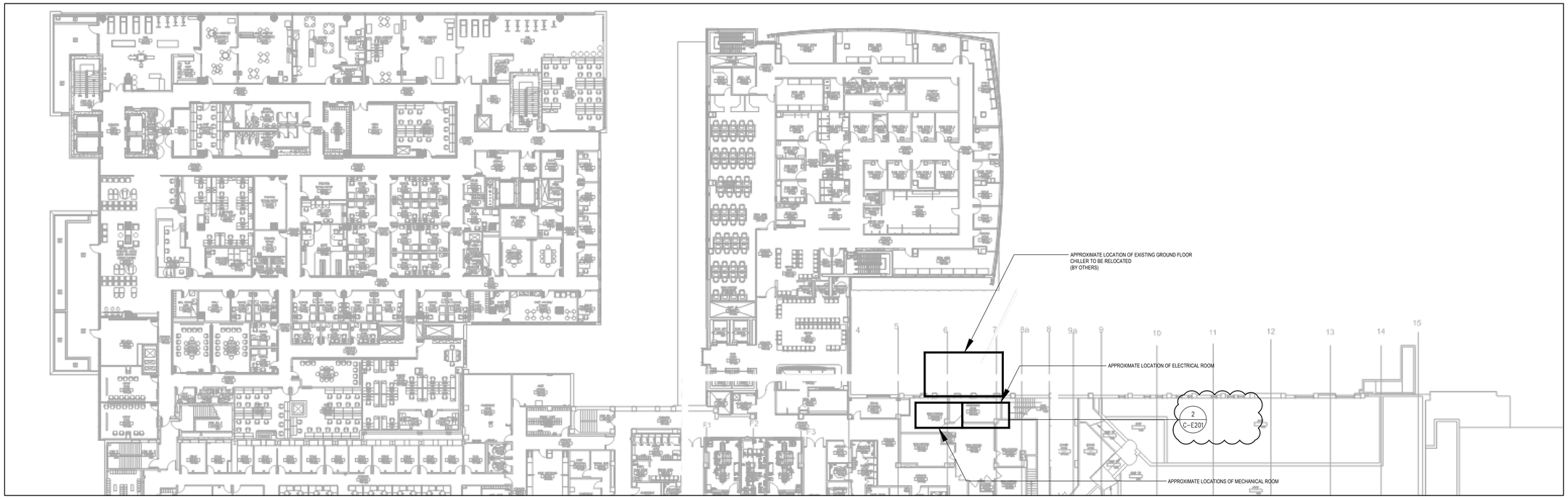
PROJECT:
UHN TWH - Seniors Emergency Medicine Centre
399 Bathurst Street, Toronto ON M5T 2S8
UHN PROJECT NO.: SAP #110022016

TITLE:
GROUND FLOOR OVERALL PLAN - ELECTRICAL LAYOUT

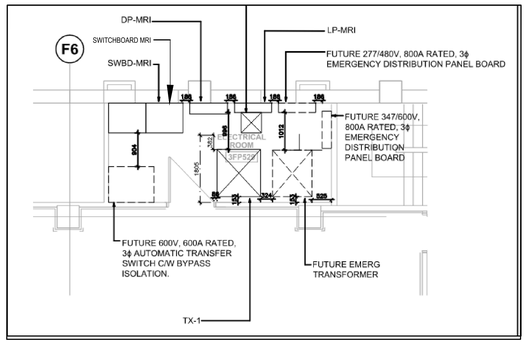
PROJECT NO: MRK-23004289

CHECKED: M.S.

DRAWING NO: C-E101



1 3RD FLOOR - POWER & SYSTEM
N.T.S



2 ENLARGED PLAN - ELECTRICAL ROOM
N.T.S

CLIENT:

UHN
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Toronto Western Hospital
399 Bathurst Street
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ARCHITECT:

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PROJECT STATUS:

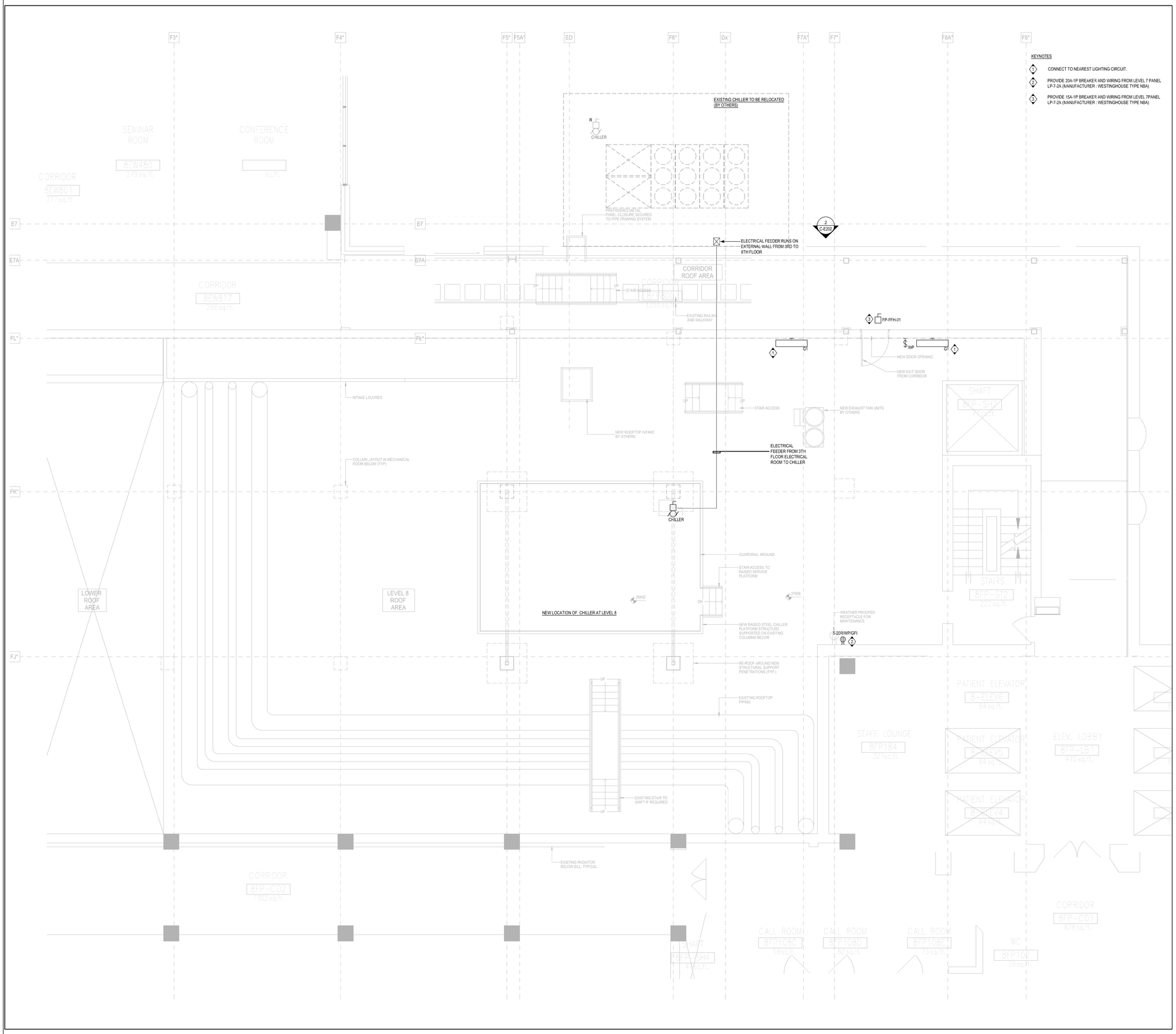
REVISIONS

NO	DESCRIPTION	DATE
1	Issued for Permit	2024.04.05
2	Issued for Permit Comment	2024.07.29
3	Issued for 90% CD / Permit	2024.09.06
4	Issued for 100% CD	2024.09.27
5	Issued for Tender	2024.10.11
6	Issued for Tender Addendum No.5	2024.11.19

PROJECT:
UHN TWH - Seniors Emergency Medicine Centre
399 Bathurst Street, Toronto ON M5T 2S8
UHN PROJECT NO.: SAP #110022016

TITLE:
LEVEL 3 FLOOR PLAN - ELECTRICAL LAYOUT

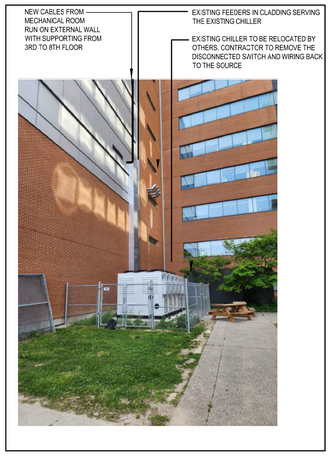
PROJECT NO: MRK-23004289
CHECKED: M.S.
DRAWING NO: C-E201



1 LEVEL 8 ROOF PLAN - ELECTRICAL LAYOUT
1 : 50

KEYNOTES

1. CONNECT TO NEAREST LIGHTING CIRCUIT.
2. PROVIDE 20A-1P BREAKER AND WIRING FROM LEVEL 7 PANEL LP-7-2A (MANUFACTURER : WESTINGHOUSE TYPE NBA)
3. PROVIDE 15A-1P BREAKER AND WIRING FROM LEVEL 7PANEL LP-7-2A (MANUFACTURER : WESTINGHOUSE TYPE NBA)



2 SITE PHOTO
NTS

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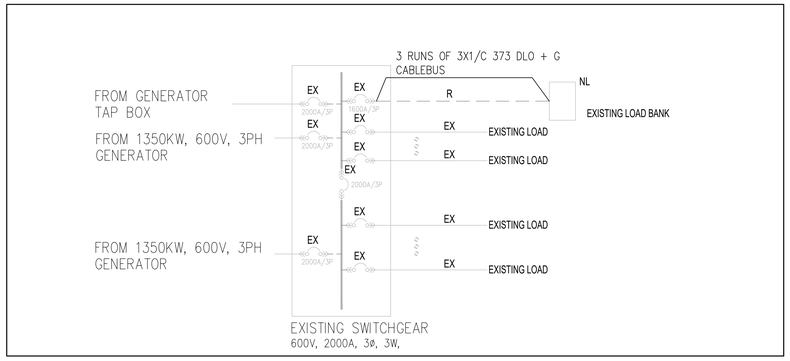
4	Issued for 100% CD	2024.09.27
5	Issued for Tender	2024.10.11
6	Issued for Tender Addendum	2024.10.25

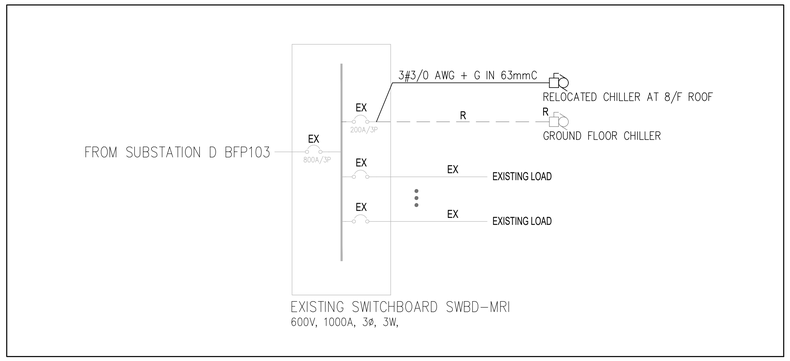
PROJECT:
UHN TWH - Seniors Emergency Medicine Centre
399 Bathurst Street, Toronto ON M5T 2S8
UHN PROJECT NO.: SAP #110022016

TITLE:
LEVEL 8 ROOF - ELECTRICAL LAYOUT & ENLARGED PLAN

PROJECT NO: MRK-23004289
CHECKED: M.S.
DRAWING NO: C-E202



1 C-E401 PARTIAL POWER DISTRIBUTION RISER DIAGRAM – G/F LOAD BANK RELOCATION
SCALE: N.T.S.



2 C-E401 PARTIAL POWER DISTRIBUTION RISER DIAGRAM – CHILLER RELOCATION
SCALE: N.T.S.

LUMINAIRE SCHEDULE

TYPE	BASE MANUFACTURER (AS SPECIFIED)	CATALOGUE NUMBER	CEILING MOUNTED			WALL MOUNTED			UNDER-CABINET	WATTAGE	COLOUR TEMP.	VOLTAGE		REMARKS
			SURFACE	RECESSED	SUSPENDED	SURFACE	RECESSED	BRACKET				120V	347V	
G1	COLUMBIA LIGHTING	LXEM-4-3500-ML-RFA-E-U LXEM-4-4000-ML-RFA-E-U	•			•				42W	3500K OR 4000K	•		3500K FOR BASEMENT CRAWL SPACE, 4000K FOR OUTDOOR. COMPLETE WITH ALL NECESSARY MOUNTING ACCESSORIES.

NOTES:

1. ALL FINISHES, FLANGE AND PLASTER COLOURS TO BE CONFIRMED WITH ARCHITECT/DESIGNER PRIOR TO ORDERING LUMINAIRES.
2. ALL LUMINAIRES SHALL BE CSA APPROVED.
3. CONTRACTOR TO PROVIDE MOUNTING ACCESSORIES AND HARDWARE TO SUIT CEILING AND WALL FINISHES.
4. PROVIDE APPROVED EQUAL FOR ENGINEER'S REVIEW DURING SHOP DRAWINGS REVIEW.
5. PROVIDE SUITABLE STEP DOWN TRANSFORMER FOR ANY LOW VOLTAGE LIGHTING AS REQUIRED.

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PROJECT:
UHN TWH - Seniors Emergency Medicine Centre
399 Bathurst Street, Toronto ON M5T 2S8
UHN PROJECT NO.: SAP #110022016

TITLE:
ELECTRICAL RISER DIAGRAM AND
LUMINARIE SCHEDULE

PROJECT NO: MRK-23004289
CHECKED: M.S.
DRAWING NO: C-E301