

ELECTRICAL LEGEND

DRAWING LIST

GENERAL NOTES

SYMBOL	DESCRIPTION
	CEILING/WALL MOUNTED EXIT LIGHT. 'X1' ... 'X5' DENOTES TYPE. REFER TO SPECIFICATIONS.
	LED OR FLUORESCENT LUMINAIRE - REFER TO SPECIFICATIONS INCANDESCENT, FLUORESCENT, OR LED - REFER TO SPECS.
	LUMINAIRE CONNECTED TO EMERGENCY CIRCUIT
	SINGLE POLE, SINGLE THROW TOGGLE SWITCH ('3' DENOTES 3-WAY, 'LV' DENOTES LOW VOLTAGE, 'K' DENOTES KEY SWITCH)
	OCCUPANCY SENSOR - WALL MOUNTED, CEILING MOUNTED
	TIME SWITCH - WALL MOUNTED
	DENOTES EQUIPMENT ITEM, REFER TO EQUIPMENT SCHEDULE
	15A-125V 1P-3W GROUNDED DUPLEX RECEPTACLE, WALL MOUNTED
	20A-125V 2P-3W GROUNDED DUPLEX RECEPTACLE, WALL MOUNTED
	30A-250V 2P-3W GROUNDED DUPLEX RECEPTACLE, WALL MOUNTED
	50A-250V 2P-3W GROUNDED DUPLEX RECEPTACLE, WALL MOUNTED
	120V CONNECTION TO EQUIPMENT
	208V, 1PH CONNECTION TO EQUIPMENT
	208V, 3PH CONNECTION TO EQUIPMENT
	DISCONNECT SWITCH
	POWER PANEL
	IONIZATION SMOKE DETECTOR CEILING MOUNTED
	FIRE ALARM SPEAKER - CEILING MOUNTED
	FIRE ALARM SPEAKER - WALL MOUNTED
	FIRE ALARM STROBE LIGHT - WALL MOUNTED

DWG. NO.	DRAWING NAME
E-01	ELECTRICAL LEGEND AND DRAWING LIST
E-02	ELECTRICAL SPECIFICATION
E-03	ELECTRICAL SPECIFICATION
E-04	ELECTRICAL SPECIFICATION
E-05	ELECTRICAL SPECIFICATION
E-06	LUMINAIRE AND EQUIPMENT SCHEDULES
E-07	KEY PLAN
E-08	TYPICAL 2ND, 3RD & 4TH FL SHOWER/TUB ROOM NEW LAYOUTS
E-08D	TYPICAL 2ND, 3RD & 4TH FL SHOWER/TUB ROOM - DEMOLITION
E-09	4TH FLOOR SERVERY LIGHTING NEW LAYOUT
E-09D	4TH FLOOR SERVERY LIGHTING - DEMOLITION
E-10	4TH FLOOR SERVERY POWER NEW LAYOUT
E-10D	4TH FLOOR SERVERY POWER - DEMOLITION
E-11	SERVERY EQUIPMENT SCHEDULE
E-12	PANEL SCHEDULE
WP	DENOTES WEATHERPROOF
GFI	DENOTES GROUNDED FAULT INTERRUPTER
RE	DENOTES EXISTING ITEM IN RELOCATED POSITION
ER	DENOTES EXISTING ITEM TO BE RELOCATED
R	DENOTES EXISTING ITEM TO BE REMOVED
E	DENOTES EXISTING ITEM TO REMAIN

- ALL ITEMS SHOWN DASHED (----) ARE EXISTING OR RELOCATED ITEM
- ALL ITEMS SHOWN SOLID (—) ARE NEW ITEM AS INDICATED.
- CURRENT CIRCUIT NUMBERS ARE DIAGRAMMATIC ONLY. REUSE SPARE BRANCHES AND PROVIDE NEW BREAKERS/BRANCHES IN EXISTING PANELS.
- ELECTRICAL DRAWINGS SHALL BE READ INCONJUNCTION WITH ARCHITECTURAL, STRUCTURE AND MECHANICAL DOCUMENTS AT ALL TIMES.
- IF A POWER SHUT DOWN IS REQUIRED TO FACILITATE ANY INSTALLATION RELATED TO THIS PROJECT AT ANY TIME, THE CONTRACTOR SHALL SUBMIT IN WRITING TO OWNER'S REPRESENTATIVE AND THE CONSTRUCTION MANAGER OR GENERAL CONTRACTOR AT LEAST TWO WEEKS IN ADVANCE FOR PERMISSION. WITHOUT PERMISSION, NO SUCH WORK SHALL BE STARTED. THE CONTRACTOR SHALL ENSURE THE REQUEST IS INDICATED IN SITE MEETING MINUTES.
- DUE TO COVID-19, THE SITE VISIT IS NOT POSSIBLE. BEFORE SUBMITTING ANY PRICE, THE CONTRACTOR SHALL REVIEW AVAILABLE PICTURES FROM THE SITE AND EXAMINE THE FOLLOWING:
 - CHECK THE EXISTING CONDITIONS OF ANY LIMITATIONS.
 - CHECK THE EXISTING ELECTRICAL COMPONENTS THAT ARE TO BE REUSED (IF APPLICABLE).
 - EXAMINE THE PROPOSED WORK AGAINST THE EXISTING CONDITIONS. AFTER EXAMINING ALL THE ABOVE AGAINST THE PLANS, SPECIFICATIONS AND TERMS OF CONTRACT, THE CONTRACTOR MUST SATISFY HIMSELF THAT THE PROPOSED WORK CAN BE CARRIED OUT, OR SHALL BE MODIFIED AT NO EXTRA COST TO THE OWNER, IN ORDER TO ACHIEVE THE INTENT OF THE SCOPE OF WORK IDENTIFIED IN THESE DOCUMENTS.
- DETAILS ARE INTENDED TO BE FOR GENERAL ARRANGEMENT ONLY. THEY DO NOT SHOW ALL NECESSARY COMPONENTS, BUT ARE MERELY A GUIDE AS TO THE ORIENTATION OF EQUIPMENT WHICH IS REQUIRED.
- THE FOLLOWING SHALL BE USED AS A GUIDE WITH RESPECT TO BRANCH CIRCUIT WIRE SIZING FOR VOLTAGE DROP:
 - #12 AWG TO BE USED FROM 0 TO 80FT MAXIMUM FOR PANEL BRANCH CIRCUIT RUNS.
 - #10 AWG TO BE USED FROM 80 TO 180FT MAXIMUM FOR PANEL BRANCH CIRCUIT RUNS.
 - #8 AWG TO BE USED FROM 180 TO 280FT MAXIMUM FOR PANEL BRANCH CIRCUIT RUNS.

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LAKESHORE LODGE
SERVERY & SHOWER/TUB RENOVATION
3197 LAKE SHORE BLD W. ETOBICOKE, ONTARIO
project
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ELECTRICAL SPECIFICATION

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ELECTRICAL DEMOLITION

- .1 CO-ORDINATE ALL WORK WITH THE CURRENT USE OF THE BUILDING.
- .2 MAINTAIN ALL ELECTRICAL SERVICES TO ALL PARTS OF THE BUILDING WHICH ARE IN USE. ELECTRICAL CONTRACTOR SHALL SCHEDULE ALL WORK AND INFORM THE OWNER IN WRITING AT LEAST ONE WEEK IN ADVANCE FOR PERMISSION IF POWER SHUTDOWN IS NECESSARY AND STATE TIME(S) AND DURATION(S) OF INTERRUPTIONS. CONTRACTOR TO CONSULT WITH THE OWNER AND DETERMINE THE EQUIPMENT REQUIRED TO BE ONLINE 24 HOURS PER DAY AND PROVIDE TEMPORARY SERVICES AND WIRING AS NECESSARY. RESCHEDULE WORK ACCORDINGLY WHEN REQUESTED BY THE CONSULTANT.
- .3 INCLUDE COST OF PREMIUM TIME IN TENDER PRICE FOR WORK DURING NIGHTS, WEEKENDS OR OTHER TIME OUTSIDE NORMAL WORKING HOURS NECESSARY TO PERFORM WORK DURING SHUTDOWNS AND MAINTAIN ALL ELECTRICAL SERVICES IN OPERATION.
- .4 CHECK AND CO-ORDINATE ALL SYSTEMS IN THE RENOVATED AREA AND IN THE NEW BUILDING ADDITION, WHICH ARE TO BE EXTENDED FROM EXISTING SYSTEMS TO ENSURE THEIR PROPER OPERATION.
- .5 PROVIDE INTERFACING COMPONENTS BETWEEN NEW AND EXISTING SYSTEMS AS NECESSARY FOR PROPER PERFORMANCE AND OPERATION.
- .6 REMOVE AND RELOCATE EXISTING SERVICES TO ALLOW FOR NEW CONSTRUCTION AS SHOWN ON THE DRAWINGS.
- .7 WORK SHALL INCLUDE FOR REMOVAL AND REINSTALLATION OF ELECTRICAL DEVICES AND EQUIPMENT IN THE NOTED AREAS AS NOTED ON THE DEMOLITION DRAWINGS. THIS SHALL INCLUDE, BUT NOT TO BE LIMITED TO:
 - .1 DISCONNECTING, REMOVAL AND REINSTALLATION OF ALL ELECTRICAL DEVICES, CONDUIT AND WIRING TO ACCOMMODATE NEW WORK.
 - .2 REWORK OF CONDUITS, WIRING AND CABLES IN SPACE ASSOCIATED WITH THE AREAS OF WORK. PULL BACK ALL WIRING AND CABLES TO AN APPROPRIATE POINT FOR RECONNECTION (POWER, VOICE, COMMUNICATION, ETC.).
 - .3 REMOVAL OF EXISTING WIRE AND CABLE IN EXISTING CONDUITS BEING REMOVED BACK TO THE SOURCE, REGARDLESS OF WHETHER THE SOURCE IS LOCATED IN THE DEMOLITION AREA.
 - .4 REMOVAL AND REINSTALLATION OF ALL LIGHT FIXTURES INTERFERING WITH THE WORK.
 - .5 REMOVAL OF ALL UNUSED WALL MOUNTED DEVICES AND BOXES. PATCHING OF OPENINGS SHALL BE BY ELECTRICAL CONTRACTOR.
 - .6 IDENTIFICATION AND PROTECTION OF ALL SERVICES PASSING THROUGH THE AREA OF WORK, BUT SERVICING OTHER AREAS OF THE BUILDING, UNLESS OTHERWISE NOTED.
 - .7 PROVISION OF NEW SUPPORTS FOR EXISTING CONDUITS AND DEVICES WHERE SUPPORTED FROM EXISTING STRUCTURE, WALLS OR CEILINGS BEING REMOVED.
- .8 ALL SERVICE CONDUITS NOT DIRECTLY ASSOCIATED WITH AREA LIGHTING, POWER, LOCAL SYSTEMS, ETC. SHALL BE TRACED AND IDENTIFIED FOR REVIEW BY THE CONSULTANT IN ORDER TO DETERMINE IF SERVICES ARE TO REMAIN OR TO BE REMOVED. ONCE IDENTIFIED, THE CONTRACTOR SHALL REMOVE THOSE DIRECTED BY THE CONSULTANT.
- .9 REMOVE ALL CONDUIT WORK WHICH IS ABANDONED EXCEPT CUT FLUSH WHERE EMBEDDED IN STRUCTURE.
- .10 HAND OVER REMOVED ITEMS TO OWNER AS REQUIRED. DISPOSE OF THE EQUIPMENT THAT THE OWNER DOES NOT WISH TO RETAIN.

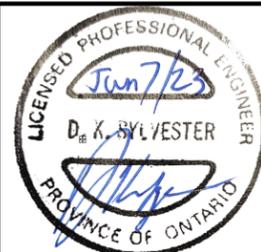
- .11 REPAIR ALL DAMAGES IN THE SURROUNDING AREA AND RENOVATED AREAS CAUSED BY THE DEMOLITION WORK, WITHOUT EXTRA COST TO THE OWNER.
- .12 FOLLOW NECESSARY PROCEDURES WHEN DISPOSING OF PRODUCTS CONTAINING HAZARDOUS MATERIALS SUCH AS MERCURY IN LAMPS, PCB BALLASTS, ETC.
- .13 ALL WORK AND MATERIAL DISPOSAL SHALL BE DONE IN ACCORDANCE WITH THE ESTABLISHED SCHEDULE AND GENERAL CONDITIONS.
- .14 ALL SERVICES AND EQUIPMENT NOT SHOWN ON DRAWINGS SHALL BE MAINTAINED IN OPERATION DURING THE CONSTRUCTION PHASE. THIS CONTRACTOR SHALL BE REQUIRED TO PROVIDE NEW CONDUIT AND WIRING FOR ALL EXISTING SYSTEMS TO REMAIN SO THAT THE EXISTING CONDUIT AND DEVICES DO NOT INTERFERE WITH NEW WORK. CONTRACTOR TO REMOVE EXISTING DEVICES AND RECONNECT TO NEW SERVICES ACCORDINGLY.
- .15 WHERE EXISTING DEVICES ARE TO BE REMOVED, MAKE SAFE ALL WIRING AND MAKE SURE THAT ALL OTHER DEVICES ON THE SAME CIRCUIT ARE OPERATIONAL.
- .16 CLEAN AND TEST EXISTING EQUIPMENT WHICH IS TO REMAIN AND EQUIPMENT BEING REINSTALLED IN AREAS BEING RENOVATED FOR PROPER OPERATION AND REPAIR AS NECESSARY BEFORE BEING PUT BACK INTO SERVICE.
- .17 CONTRACTOR TO VERIFY OPERATION OF ALL EXISTING DEVICES AND REPORT ANY DISCREPANCIES TO THE CONSULTANT PRIOR TO PROCEEDING WITH THE WORK.
- .18 WHERE ELECTRICAL ITEMS ARE TO BE SALVAGED AND REUSED, REMOVE ITEMS FROM EXISTING LOCATIONS CAREFULLY TO AVOID DAMAGE.
- .19 REPAIR OR REPLACE WITHOUT ADJUSTMENT TO THE CONTRACT PRICE ALL EXISTING EQUIPMENT WHICH IS DAMAGED IN PROCESS OF REMOVAL AND REINSTALLATION.
- .20 UNLESS NOTED OTHERWISE PROVIDE ADDITIONAL EQUIPMENT OF THE SAME TYPE AND MANUFACTURE WHERE REQUIRED TO SUPPLEMENT EXISTING EQUIPMENT.

ELECTRICAL GENERAL REQUIREMENTS

- .1 DIVISION 1 GENERAL INSTRUCTIONS SHALL BE READ IN CONJUNCTION WITH AND FORM PART OF THIS SPECIFICATION.
- .2 SUPPLY AND INSTALL ALL ITEMS, ARTICLES, MATERIAL, OPERATIONS AND INCLUDE ALL LABOUR, EQUIPMENT AND TOOLS NECESSARY TO COMPLETE ALL INSTALLATIONS SHOWN ON THE DRAWINGS. RENDER A COMPLETE AND OPERATIONAL INSTALLATION. TEST AND VERIFY ALL EQUIPMENT INSTALLED UNDER THIS CONTRACT AND INSTRUCT OWNER'S REPRESENTATIVE IN THE OPERATION OF THE EQUIPMENT.
- .3 WORKMANSHIP AND METHODS OF INSTALLATION SHALL BE OF BEST STANDARDS AND PRACTICE. WORK SHALL BE PERFORMED BY LICENSED TRADESMAN SKILLED IN THE TYPE OF WORK TO BE PERFORMED.
- .4 PROVIDE WORK IN ACCORDANCE WITH THE REQUIREMENTS OF ALL APPLICABLE GOVERNMENT CODES, LOCAL BY-LAWS, UNDERWRITER'S REGULATIONS BASE BUILDING STANDARDS, CONTRACT DOCUMENTS AND ALL AUTHORITIES HAVING JURISDICTION. ALL MATERIALS & METHOD OF INSTALLATION TO CONFORM TO THE LATEST EDITION OF THE ELECTRICAL SAFETY CODE AND BULLETINS. APPLY FOR, OBTAIN AND PAY FOR ALL PERMITS, FEES, CONNECTIONS, INSPECTIONS, LICENSES CERTIFICATES FOR CHARGES NECESSARY INCLUDING ALL PROVINCIAL TAX AND HST BEFORE PROCEEDING WITH ANY WORK.

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ELECTRICAL SPECIFICATION

ELECTRICAL GENERAL REQUIREMENTS CONTD.

- .5 PRIOR TO TENDER SUBMISSION VISIT AND EXAMINE THE SITE, LOCAL CONDITIONS AND THE CONTRACT DOCUMENTS. MAKE ALLOWANCE FOR ANY RE-ROUTING OF EXISTING AND/OR NEW SERVICES AND EQUIPMENT IN THE TENDER PRICE. AFTER EXAMINING ALL THE ABOVE AGAINST THE PLANS, SPECIFICATIONS AND TERMS OF THE CONTRACT, THE CONTRACTOR MUST SATISFY HIMSELF THAT THE PROPOSED INSTALLATION CAN BE CARRIED OUT AS INTENDED. FAILURE TO OBSERVE THE ABOVE WILL NOT RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITY.
- .6 THE DRAWINGS SHOW THE GENERAL INTENT OF THE WORK ONLY AND DO NOT SHOW ALL DETAILS OF THE INSTALLATION. DO NOT SCALE DRAWINGS. OBTAIN ALL DIMENSIONS OF THE DEVICES, FIXTURES EQUIPMENT, ETC., FROM FIELD MEASUREMENTS AND ARCHITECTURAL DRAWINGS.
- .7 REPORT TO THE CONSULTANT ALL AMBIGUITIES, DISCREPANCIES, OMISSIONS, ERRORS AND DEPARTURES FROM BUILDING CODE, ELECTRICAL CODE, BY-LAWS AND/OR FROM GOOD PRACTICE PRIOR TO TENDER CLOSING. THE TENDER DOCUMENTS SHALL BE READ IN CONJUNCTION WITH THE DOCUMENTS OF ALL TRADES TO PROVIDE A COMPLETE OVERVIEW OF THE ENTIRE SCOPE. WHERE DIFFERENCES OCCUR BETWEEN PLANS AND RISER DIAGRAMS OR SCHEMATICS, THE MAXIMUM CONDITIONS SHALL GOVERN.
- .8 COORDINATE THE ROUTING AND INSTALLATION OF ALL ELECTRICAL SERVICES WITH THE WORK AND COOPERATION OF ALL OTHER TRADES, STRUCTURAL INTERFERENCES AND EXISTING CONDITIONS PRIOR TO ROUGHING-IN DEVICES, CONDUIT, ETC., TO AVOID CONFLICT. IF THERE IS INTERFERENCE, RELOCATE DEVICES TO SUIT WITHOUT ADDITIONAL COST TO THE CONTRACT.
- .10 UPON COMPLETION OF THE WORK, SUBMIT DIGITAL ELECTRICAL AS-BUILT DRAWINGS IN AUTOCAD FORMAT TO THE CONSULTANT FOR REVIEW.
- .11 AT THE COMPLETION OF THE WORK, SUBMIT DIGITAL COPIES OF ELECTRICAL MAINTENANCE MANUALS TO THE CONSULTANT FOR REVIEW. ELECTRICAL MANUALS SHALL INCLUDE THE FOLLOWING; COPIES OF ALL REVIEWED SHOP DRAWINGS, WARRANTY CERTIFICATE, LIST OF SUPPLIERS AND CONTACT INFORMATION, FINAL ESA CERTIFICATE, FIRE ALARM VERIFICATION REPORT, AND ALL OTHER RELEVANT TEST REPORTS.
- .12 TENDER SHALL BE PREPARED ONLY ON THE BASIS OF SPECIFIED MATERIAL AND EQUIPMENT. ANY ALTERNATIVES SUGGESTED SHALL BE SUBMITTED PRIOR TO CONSTRUCTION AND SHALL BE ACCOMPANIED BY ALL DATA REQUIRED TO EVALUATE THE ALTERNATIVE. DURING CONSTRUCTION, ALTERNATIVES WILL ONLY BE CONSIDERED IF TENDERED PRODUCTS ARE UNOBTAINABLE AND WRITTEN PROOF IS SUBMITTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PERFORMANCE AND EXTRA COST OR LIABILITY OF ALL SUBSTITUTIONS AND ALTERNATIVES.
- .13 ANY PRODUCT NOT SPECIFICALLY SPECIFIED SHALL BE A QUALITY CONSISTENT WITH BASE BUILDING PRODUCTS AND THE CONTRACT DOCUMENTS.

ELECTRICAL SPECIFICATION

- .16 PROVIDE A WRITTEN WARRANTY FOR ALL LABOUR, MATERIALS AND EQUIPMENT IN THIS CONTRACT, FOR A PERIOD OF TWO (2) YEAR COMMENCING AT COMPLETION OF CONTRACT. PROVIDE LABOUR AND MATERIALS TO REPAIR OR REPLACE ANY DEFECTS AT NO EXTRA COST TO THE OWNER.
- .17 ANY COSTS FOR PREMIUM TIME OUTSIDE THE NORMAL WORKING HOURS TO COMPLETE THE WORK ON SCHEDULE AND TO MAINTAIN ALL EXISTING ELECTRICAL SYSTEMS IN OPERATION SHALL BE INCLUDED IN THE TENDER PRICE.
- .18 PROVIDE A COMPLETE BREAKDOWN OF MATERIALS, EQUIPMENT AND LABOUR COSTS WITH EACH SUBMISSION FOR EXTRA OR DELETED WORK. EACH COMPONENT OF THE EXTRA OR CREDITED WORK SHALL BE SHOWN WITH INDIVIDUAL MATERIAL AND LABOUR COSTS AND SUBMITTED WITH THE BREAKDOWN.
- .19 ALL SHUTDOWNS OF EXISTING BASE BUILDING SYSTEMS SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE. INCLUDE COST OF PREMIUM TIME IN TENDER PRICE FOR WORK DURING NIGHTS, WEEKENDS OR OTHER TIME OUTSIDE NORMAL WORKING HOURS NECESSARY TO PERFORM WORK DURING SHUTDOWNS AND PAY FOR ANY COSTS INCURRED. ALLOW 10 WORKING DAYS NOTICE FOR ALL ELECTRICAL SHUTDOWNS. RESCHEDULE SHUTDOWNS WHERE NECESSARY TO COORDINATE WITH OWNER'S REQUIREMENTS.
- .20 VERIFY ON SITE, EXISTING CIRCUITS USED, SPARE CIRCUITS AND SPACES AVAILABLE. PROVIDE ADDITIONAL BREAKERS AND CIRCUITS NECESSARY WHERE EXISTING PANELS ARE TO BE REUSED.
- .21 PROVIDE ALL CLEAN-UP, LIFTING, STORAGE, CUTTING, CORING, PATCHING AND FLASHING AS REQUIRED. OBTAIN PERMISSION AND COORDINATE ANY PENETRATIONS THROUGH FLOOR SLAB OR STRUCTURE.
- .22 PROVIDE X-RAY OF SLAB PRIOR TO SAWCUTTING OR CORE-DRILLING. ALL X-RAYING SHALL BE DONE AFTER HOURS AND ONLY BY PERSONNEL QUALIFIED IN THE USE OF THE TYPE OF EQUIPMENT. NO ALLOWANCE WILL BE MADE LATER FOR EXPENSES INCURRED THROUGH THE FAILURE OF PERFORMING THESE X-RAYS. ALL FLOOR SAWCUTTING AND DRILLING REQUIRED FOR ELECTRICAL SERVICES ARE TO BE PERFORMED WITHIN HOURS APPROVED BY THE OWNER. PRIOR WRITTEN NOTICE OF 48-HOURS MUST BE GIVEN TO THE OWNER. CONFIRM LOCATION WITH ARCHITECTURAL AND STRUCTURAL PRIOR TO ANY X-RAYING OR CUTTING. PATCH AND SEAL ALL OPENINGS IN FLOOR, WALLS AND PARTITIONS. IF FLOORS, WALL OR PARTITIONS ARE FIRE RATED, PATCH AND SEAL PENETRATIONS WITH FIRE RESISTANT INSULATION AND APPROVED FIRE STOP SYSTEM.
- .23 BE RESPONSIBLE FOR CARE OF THE BUILDING. CONTRACTOR SHALL SEAL OFF EACH AREA AS WORK IS BEING PERFORMED, SO AS NOT TO DISTURB DAY TO DAY OPERATION. ACCESS TO WASHROOMS, ELEVATORS, STAIRS, ETC. MUST REMAIN OPEN. CLEAN UP ALL DEBRIS DAILY AND REMOVE FROM THE SITE ON OR BEFORE COMPLETION OF CONTRACT.
- .24 ALL MATERIALS ARE TO BE NEW SPECIFICATION GRADE AND TO BEAR CSA APPROVAL LABELS.
- .25 ELECTRICAL EQUIPMENT SHALL BE PROVIDED WITH SUITABLE ENCLOSURES FOR SPRINKLERED AREAS.
- .26 CONTRACTOR TO MAKE GOOD ANY SURFACES OR FINISHES DAMAGED AS A RESULT OF ELECTRICAL ALTERATIONS. REPLACE CEILING TILES DAMAGED BY CONSTRUCTION WITH NEW TO MATCH EXISTING.
- .27 PROVIDE A COMPLETE TYPED-OUT DIRECTORY OF CONNECTED LOADS TO ALL NEW AND EXISTING PANELS BEING USED. CIRCUIT NUMBERS SHOWN ON DRAWINGS ARE FOR GROUPING PURPOSES ONLY. BALANCE LOADS ON PANELS TO WITHIN 10 % ACROSS PHASES.

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ELECTRICAL GENERAL REQUIREMENTS CONTD.

- .28 PROVIDE LAMACOID NAMEPLATES WITH WHITE LETTERS ON BLACK BACKGROUND FOR ALL EQUIPMENT ON NORMAL POWER AND LAMACOID NAMEPLATES WITH WHITE LETTERS ON RED BACKGROUND FOR ALL EQUIPMENT ON EMERGENCY POWER.
- .29 PROVIDE LAMACOID NAMEPLATES INDICATING PANEL NAME AND CIRCUIT NUMBER ON ALL RECEPTACLES.
- .30 ALL ELECTRICAL OUTLET BOXES, JUNCTION BOXES, ETC. SHALL BE LOCATED IN ACCESSIBLE CEILING. WHERE EXISTING DEVICES AND/OR OUTLET BOXES ARE TO REMAIN ABOVE DRYWALL CEILING, RELOCATE DEVICES OR PROVIDE ACCESS HATCH(ES) (WHICHEVER METHOD IS ACCEPTABLE TO ARCHITECT). PROVIDE ACCESS HATCH(ES) WHERE REQUIRED FOR NEW EQUIPMENT BEING PROVIDED.
- .31 PROVIDE FLUSH MOUNTED ACCESS PANELS FOR ALL CONCEALED ELECTRICAL EQUIPMENT REQUIRING ACCESS. FINISH OF ACCESS PANELS SHALL BE SUITABLE FOR WALL OR CEILING FINISHES WHERE ACCESS PANELS ARE TO BE INSTALLED. REVIEW LOCATIONS OF ALL ACCESS PANELS WITH CONSULTANT PRIOR TO INSTALLATION.
- .32 ALL ELECTRICAL CONSTRUCTION WORK MUST BE PERFORMED BY MEMBERS OF THE INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS, LOCAL 353.

MECHANICAL EQUIPMENT WIRING

- .1 ALL ELECTRICAL DISCONNECT SWITCHES AND ALL MANUAL OR AUTOMATIC STARTERS FOR MECHANICAL EQUIPMENT SHALL BE PROVIDED BY DIVISION 16. CO-ORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION OF ALL DEVICES TO AVOID ANY CONFLICT. IF THERE IS CONFLICT, RELOCATE DEVICES WITHOUT EXTRA COST TO THE OWNER.
- .2 ALL LINE AND LOAD SIDE POWER WIRING SHALL BE BY THE ELECTRICAL CONTRACTOR. PROVIDE LOCAL DISCONNECT SWITCHES FOR ALL MECHANICAL EQUIPMENT AND MOTORS. ALL CONTROL WIRING SHALL BE BY DIV. 15.
- .3 ALL VARIABLE FREQUENCY DRIVES SHALL BE PROVIDED BY DIV. 15. ALL LINE AND LOAD SIDE POWER WIRING SHALL BE BY THE ELECTRICAL CONTRACTOR. PROVIDE LOCAL DISCONNECT SWITCHES FOR ALL MECHANICAL EQUIPMENT AND MOTORS. COORDINATE LOCATIONS OF ALL VFD'S WITH DIV. 15.
- .4 WIRING BETWEEN VFD'S AND MOTORS SHALL BE VFD TYPE CABLE (NEXANS DRIVERX).

FIRE SEAL

- .1 MAINTAIN THE INTEGRITY OF ALL FIRE SEPARATIONS. PROVIDE ALL NECESSARY CSA AND ULC LISTED PRODUCTS WHICH ARE REQUIRED TO GO IN AND AROUND CONDUITS OR CABLES THROUGH FIRE RATED ASSEMBLIES, TO RETAIN THE FIRE RATING OF THESE ASSEMBLIES.
- .2 WHERE CONDUITS OR SLEEVES PENETRATE FIRE RATED ASSEMBLIES SUCH AS BETWEEN THE CORRIDOR AND ANY ROOM PROVIDE FIRE STOPPING SEALS.
- .3 PACK THE SLEEVES, CONDUITS AND AROUND THE CONDUITS FOR A COMPLETE SEAL.
- .4 ACCEPTED FIRE SEAL LIQUID OR PUTTY TYPE SHALL ONLY BE PROVIDED BY DOW CORNING, 3M OR TREMCO. MINERAL WOOL FIBRE SHALL NOT BE USED.

ELECTRICAL SPECIFICATION

MATERIALS

- .1 PANELBOARDS SHALL BE RATED 120/208V, 3PHASE, 4 WIRE. ALL BUS WORK SHALL BE COPPER. PANELBOARDS SHALL BE RATED FOR A MINIMUM OF 10KA FOR 208V PANELBOARDS MOULDED CASE BREAKERS SHALL BE BOLT-ON, QUICK MAKE, QUICK BREAK RATED FOR 40°C. PANEL TRIMS SHALL BE COMPLETE WITH DIRECTORIES, LOCKABLE DOORS AND NAMEPLATES. PANELBOARDS SHALL BE MANUFACTURED BY SCHNEIDER, CUTLER-HAMMER OR SIEMENS. SURFACE PANELBOARDS SHALL BE SPRINKLER PROOF.
- .2 SOLID STATE TRIP BREAKERS DESIGN TYPE D: PROVIDE MOLDED CASE CIRCUIT BREAKERS TO OPERATE BY MEANS OF A SOLID STATE TRIP UNIT WITH ASSOCIATED CURRENT MONITORS AND SELF POWERED SHUNT TRIP DEVICES TO PROVIDE AN INVERSE TIME VS CURRENT TRIP CHARACTERISTIC UNDER OVERLOAD CONDITIONS, AND LONG TIME SHORT TIME INSTANTANEOUS TRIPPING FOR PHASE GROUND FAULT SHORT CIRCUIT PROTECTION. THE TRIP UNIT SHALL BE FULLY ADJUSTABLE CURRENT AND TIME CHARACTERISTICS. ALL BREAKERS 400 A ABOVE SHALL BE SOLID STATE TYPE (LSIG).
- .3 DISTRIBUTION PANELS SHALL BE RATED 208V OR 600V, 3PHASE, 3 OR 4 WIRE. ALL BUS WORK SHALL BE COPPER. BREAKERS SHALL BE BOLT-ON, QUICK MAKE, QUICK BREAK RATED FOR 40°C WITH INDIVIDUAL NAMEPLATES. DISTRIBUTION PANELS SHALL BE MANUFACTURED BY SCHNEIDER, CUTLER-HAMMER OR SIEMENS. SURFACE PANELS SHALL BE SPRINKLER PROOF. DISTRIBUTION PANELS AND BREAKERS SHALL BE RATED FOR MINIMUM FAULT CURRENTS AS FOLLOWS UNLESS OTHERWISE NOTED; 600V - 24KA, 120/208V - 14KA, UNLESS OTHERWISE NOTED.
- .4 FUSES SHALL BE HRC TYPE 'J' 200KA INTERRUPTING RATING.
- .5 FUSED AND NON-FUSED DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE WITH QUICK-MAKE, QUICK-BREAK SWITCHING ACTION. SWITCHES SHALL BE PROVIDED WITH CSA ENCLOSURES TO SUIT THE ENVIRONMENT WHERE THE SWITCH IS LOCATED WITH VOIDABLE INTERLOCK TO PREVENT THE DOOR OPENING WHEN THE SWITCH IS IN THE ON POSITION. SWITCHES SHALL BE HAVE PROVISION FOR PADLOCKING IN THE ON OR OFF POSITION.

CONDUIT AND WIRING

- .1 PROVIDE CONCEALED CONDUIT FOR ALL WIRING UNLESS OTHERWISE NOTED. SECURE CONDUIT TO UNDERSIDE OF FLOOR SLAB, STRUCTURE OR OTHER MEANS OF INDEPENDENT SUPPORT, DO NOT USE CEILING SYSTEM TO SUPPORT CONDUITS.
- .2 AC90 (BX) CABLE CAN BE USED IN DRYWALL PARTITIONS, AND FOR FINAL CONNECTION TO LIGHTING FIXTURES IN CEILING SPACE. MAXIMUM LENGTH OF DROP CABLE TO LIGHTING FIXTURE SHALL NOT EXCEED 1500mm.
- .3 ALL WIRING SHALL BE COPPER RATED 90C, RW90 TYPE AND MINIMUM WIRE SIZE FOR BRANCH WIRING SHALL BE #12 AWG COPPER, #10 AWG TO BE USED IF DISTANCE BETWEEN PANEL AND FIRST OUTLET EXCEEDS 25M. MAXIMUM VOLTAGE DROP TO BE NO MORE THAN 3%.
- .4 PROVIDE A SEPARATE GROUND WIRE FOR EACH CONDUIT.
- .5 PROVIDE A SEPARATE NEUTRAL WIRE FOR EACH CIRCUIT INDICATED.
- .6 ALL ADDITIONAL CONDUITS AND WIRING REQUIRED FOR THIS MODIFICATION SHALL BE NEW. DO NOT REUSE REMOVED CONDUITS AND WIRING UNLESS APPROVED BY CONSULTANT AND OWNERS REPRESENTATIVE.
- .7 CONDUIT SHALL BE TYPE EMT C/W STEEL SETSCREW CONNECTORS. MINIMUM SIZE OF CONDUIT IS 21mm IN DIAMETER UNLESS OTHERWISE NOTED.
- .8 RIGID GALVANIZED CONDUITS AND ALL WEATHERPROOF FITTINGS SHALL USED FOR ALL EXTERIOR CONDUIT RUNS.
- .9 PROVIDE LIQUID TIGHT FLEXIBLE METALLIC CONDUIT AND FITTINGS FOR FINAL CONNECTIONS TO ALL MOTORS.

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2	ISSUED FOR PERMIT & TENDER	JUNE 05, 2023
1	ISSUED FOR OWNER'S REVIEW	JULY 21, 2022

LAKESHORE LODGE
 SERVERY & SHOWER/TUB RENOVATION
 3197 LAKE SHORE BLD W. ETOBICOKE, ONTARIO

ELECTRICAL SPECIFICATION

LN	AUG. 15, 2022
drawn	date
DS/LN	CEL 21513.03
checked by	MSA 21508.F02
	job no.
N.T.S.	
scale	ref. no.
E-04	

ELECTRICAL SPECIFICATION

COMBINATION MAGNETIC STATERS

- .1 ALL MAGNETIC STARTERS TO BE THE COMBINATION, CIRCUIT BREAKER TYPE UNLESS OTHERWISE NOTED.
- .2 COMBINATION TYPE STARTERS TO INCLUDED DISCONNECT SWITCH WITH A VERTICALLY MOVING OPERATING LEVER ON THE OUTSIDE OF ENCLOSURE TO CONTROL DISCONNECT SWITCH AND PROVISION FOR:
 - .1 LOCKING IN OFF POSITION WITH UP TO 3 PADLOCKS
 - .2 LOCKING IN ON POSITION
 - .3 INDEPENDENT LOCKING OF ENCLOSURE DOOR
 - .4 AVOIDABLE INTERLOCK TO PREVENT THE STARTER DOOR FROM BEING OPEN WHEN THE DISCONNECT SWITCH IS IN THE ON POSITION AND TO PREVENT SWITCHING THE DISCONNECT SWITCH TO THE ON POSITION WHEN THE STARTER DOOR IS OPEN.
 - .5 PROVIDE AS PART OF CMS TYPE STARTER ALL ITEMS AS SPECIFIED
 - .6 PROVIDE INTEGRAL CONTROL TRANSFORMER
- .3 ALL STARTERS SHALL BE PROVIDED WITH THE FOLLOWING INDICATING LED PILOT LIGHTS
 - .1 GREEN LED PILOT LIGHT DENOTES - RUNNING
 - .2 RED LED PILOT LIGHT DENOTES - STOPPED
 - .3 AMBER RED LED PILOT LIGHT DENOTES - TRIPPED
- .4 PROVIDE TWO SETS OF NORMALLY OPEN AND NORMALLY CLOSED CONTACTS
- .5 ALL STARTERS SHALL BE EEMAC/NEMA RATED. IEC RATED STARTERS ARE NOT ACCEPTABLE
- .6 ALL STARTERS SHALL BE COMPLETE WITH INDICATING LIGHTS FOR RUN AND OFF INDICATION AND "PUSH TO TEST" LAMP TEST BUTTON
- .7 PROVIDE SCHEMATIC WIRING PERMANENTLY AFFIXED TO THE INSIDE DOOR
- .8 PROVIDE DEFEAST MECHANISM TO ACCESS STARTER WITHOUT HAVING TO DE-ENERGIZE STARTER
- .9 ENCLOSURE SHALL BE SPRINKLER-PROOF

WIRING DEVICES

- .1 COORDINATE ALL RECEPTACLES SUCH THAT THEY ARE INSTALLED TO MATCH THE REQUIRED EQUIPMENT PLUG CONFIGURATIONS. MAKE CHANGES TO SUIT AT NO EXTRA COST.
- .2 PROVIDE WIRING DEVICES AS INDICATED ON DRAWINGS. ALL WIRING DEVICES SHALL BE MANUFACTURED BY HUBBELL, LEVITON, PASS & SEYMOUR OR BRYANT.
- .3 CONVENIENCE DUPLEX RECEPTACLES SHALL BE FINISHED IN WHITE HUBBELL CAT. 5262 SERIES. SURGE SUPPRESSION TYPE DUPLEX RECEPTACLES SHALL BE FINISHED IN BLUE, HUBBELL CAT. 8062 SERIES.
- .4 DUPLEX RECEPTACLES CONNECTED TO EMERGENCY POWER SHALL BE FINISHED IN RED.
- .5 120V LIGHT SWITCHES SHALL BE FINISHED IN WHITE RATED 20A, HUBBELL CAT. 1220 SERIES.
- .6 ALL COVER RATES SHALL BE FINISHED IN VERTICALLY BRUSHED STAINLESS STEEL.
- .7 INCANDESCENT DIMMERS SHALL BE LUTRON NT SERIES (FLUORESCENT DIMMERS SHALL BE NTF SERIES).
- .8 THREE WAY (2 LOCATION) DIMMERS SHALL BE LUTRON NTB/NTA-2 SERIES.
- .9 DUAL TECHNOLOGY LINE VOLTAGE OCCUPANCY SENSOR WALL SWITCHES SHALL BE WATTSTOPPER MODEL DSW-301.
- .10 DUAL TECHNOLOGY LINE VOLTAGE CEILING MOUNTED OCCUPANCY SENSORS SHALL BE WATTSTOPPER MODEL DT-355.

ELECTRICAL SPECIFICATION

PANELBOARDS

- .1 ALL PANELBOARDS MUST BE THE PRODUCT OF ONE (1) MANUFACTURER.
- .2 FOR 250V PANELBOARDS, THE BUS, THE MAIN BREAKER AND THE BRANCH BREAKERS MUST BE RATED FOR A MINIMUM OF 10000A INTERRUPTING CAPACITY. FOR 600V PANELBOARDS THE BUS, THE MAIN BREAKER AND THE BRANCH BREAKERS MUST BE RATED FOR A MINIMUM OF 14000A INTERRUPTING CAPACITY UNLESS OTHERWISE NOTED.
- .3 PROVIDE COPPER MAIN BUS, NEUTRAL BUS OF THE SAME VOLTAGE AND AMPERE RATING AS WHERE INDICATED.
- .4 PROVIDE DOORS WITH CONCEALED HINGES, LOCKS AND HARDWARE FOR ALL PANELBOARDS UNLESS OTHERWISE INDICATED. FOR RECESSED PANELBOARD PROVIDE CHROME PLATED HARDWARE WHERE EXPOSED.
- .5 PROVIDE A SIZE 3 NAMEPLATE FOR EACH PANELBOARD ENGRAVED AS INDICATED PROVIDE A SIZE 2 NAMEPLATE FOR EACH CIRCUIT IN DISTRIBUTION PANELBOARD ENGRAVED AS INDICATED. PROVIDE A COMPLETE TYPE-WRITTEN CIRCUIT DIRECTORY WITH CLEAR PLASTIC COVER SHOWING THE LOCATION AND LOAD OF EACH CIRCUIT FOR ALL PANELBOARDS.
- .6 ACCEPTABLE PANELBOARD MANUFACTURERS ARE:
 - .1 SQUARE D CANADA
 - .2 SIEMENS
 - .3 EATON CANADA

TESTING

- .1 AT COMPLETION OF INSTALLATION, CONDUCT GROUNDING RESISTANCE TEST, VOLTAGE TEST, ETC. AND MAKE ALL CORRECTION WHERE NECESSARY AND AS DIRECTED.
- .2 VOLTAGE PROVIDED TO EQUIPMENT IN INSTALLATION SHALL NOT EXCEED MINIMUM AND MAXIMUM PERMISSIBLE LIMITS REQUIRED BY ELECTRICAL SAFETY CODE.
- .3 TEST PERFORMANCE OF ALL EQUIPMENT, DEVICES AND OUTLETS IN RENOVATED AND AFFECTED AREAS. MAKE ADJUSTMENTS AND RECTIFICATIONS NECESSARY.
- .4 FURNISH LABOUR, MATERIALS, INSTRUMENTS, AND BEAR ALL COSTS IN CONNECTION WITH ALL TESTS, OBTAIN REQUIRED CERTIFICATES OF APPROVAL, ACCEPTANCE, AND COMPLIANCE WITH REGULATIONS OF AGENCIES HAVING JURISDICTION AND AS SPECIFIED.
- .5 WORK SHALL NOT BE DEEMED COMPLETE AND FINAL CERTIFICATE OF ACCEPTANCE WILL NOT BE ISSUED, UNTIL SUCH CERTIFICATES HAVE BEEN DELIVERED TO CONSULTANT.

LIGHTING

- .1 LIGHTING LUMINAIRES AND ACCESSORIES SHALL NOT BE SECURED TO OR SUSPENDED IN ANY WAY FROM MECHANICAL PIPES, DUCTS OR OTHER COMPONENTS. IF NECESSARY, ADDITIONAL SUPPORTS SHALL BE INSTALLED TO BRIDGE THE EQUIPMENT.
- .2 ALL LIGHTING LUMINAIRES (RELOCATED AND NEW) WHICH ARE LOCATED IN SUSPENDED CEILING SHALL BE SUPPORTED BY APPROVED WIRES OR CHAINS WHICH WILL ALLOW LUMINAIRES TO BE SUPPORTED PROPERLY AND INDEPENDENT OF THE CEILING SYSTEM. ALL SUPPORTS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.

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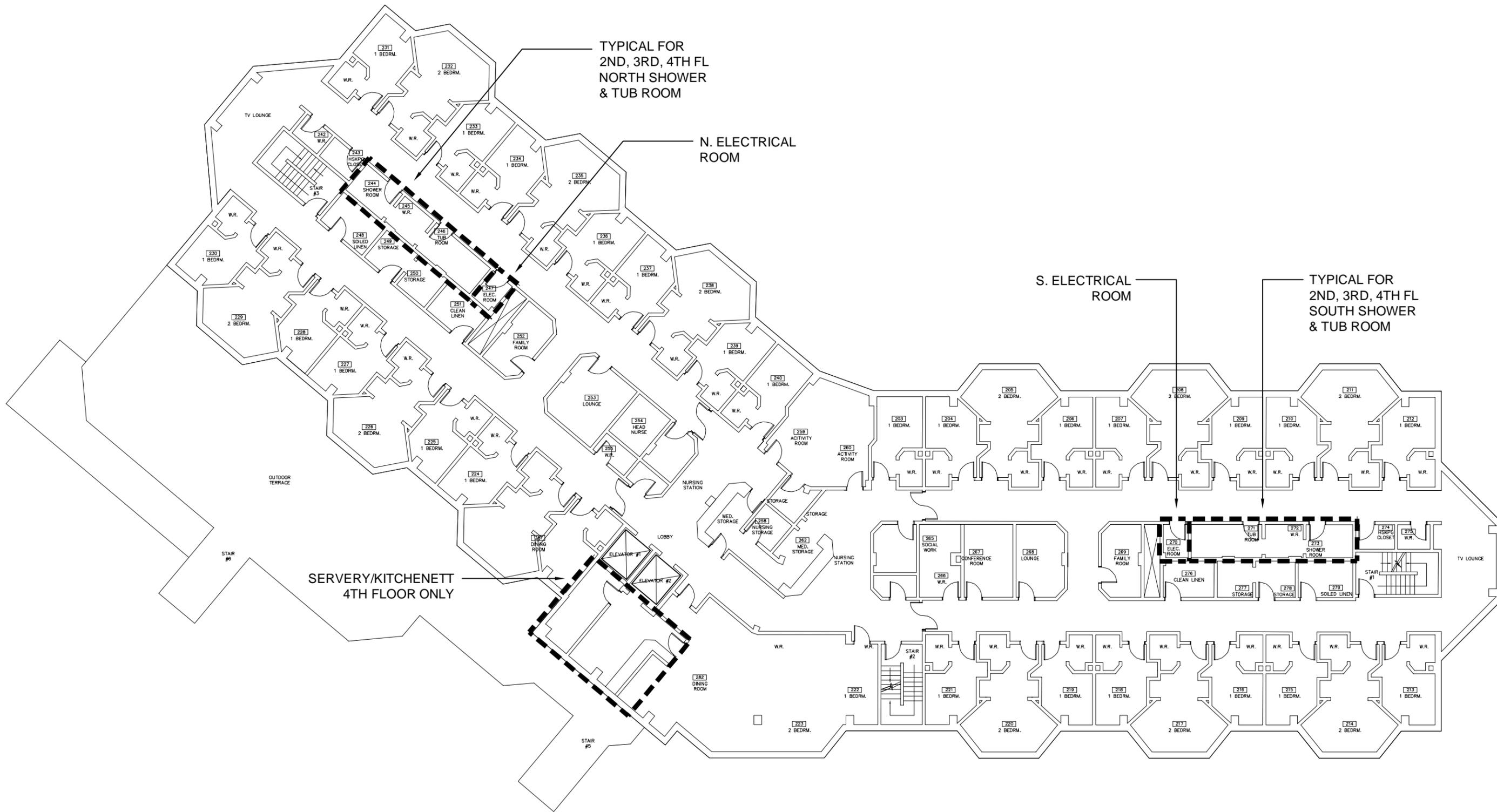


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LAKESHORE LODGE
 SERVERY & SHOWER/TUB RENOVATION
 3197 LAKE SHORE BLD W. ETOBICOKE, ONTARIO

project
ELECTRICAL SPECIFICATION

LN	AUG. 15, 2022
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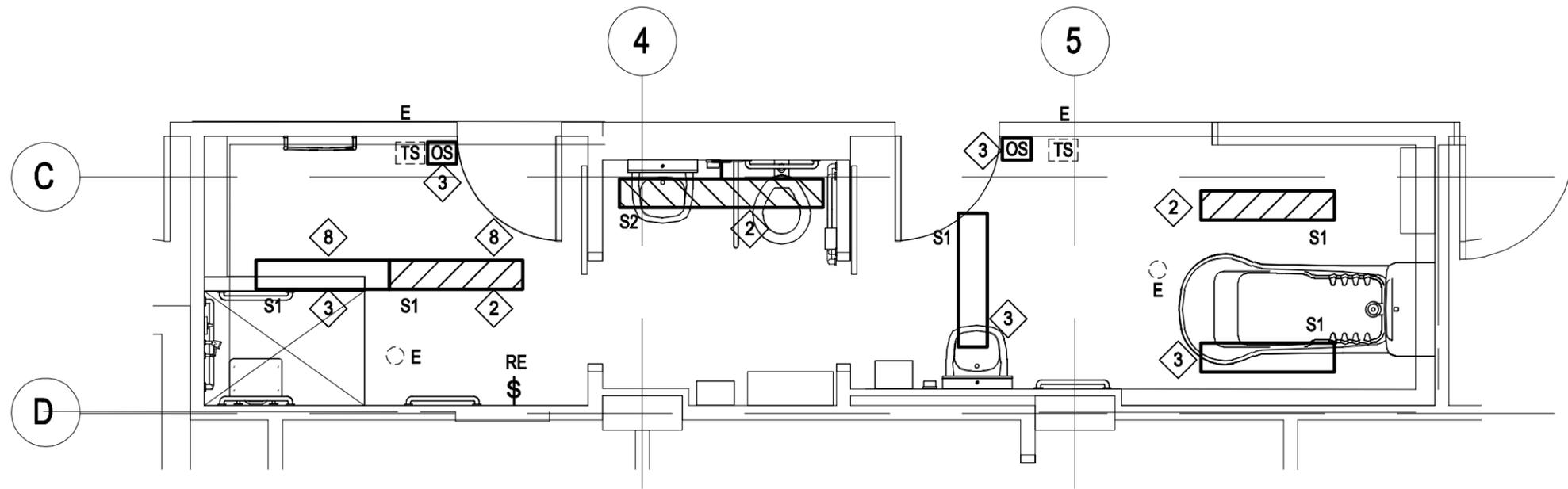
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 SERVERY & SHOWER/TUB RENOVATION
 3197 LAKE SHORE BLD W. ETOBICOKE, ONTARIO

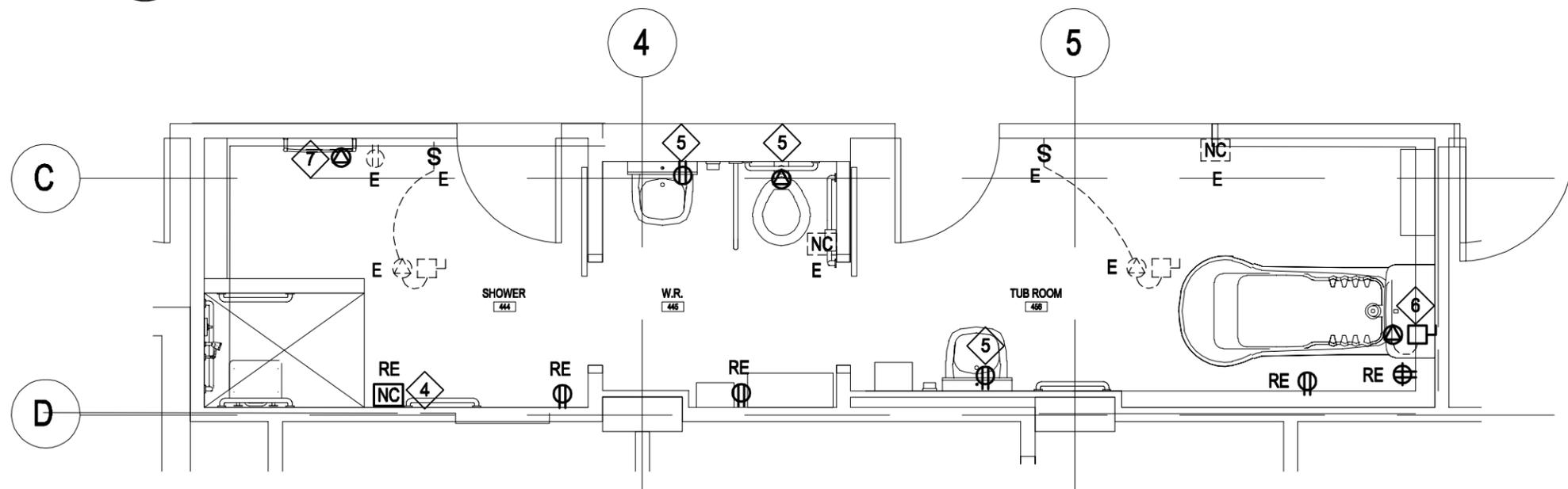
project

KEY PLAN

LN	drawn	AUG. 15, 2022
DS/LN	checked by	date
		CEL 21513.03
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scale		ref. no.
E-07		



1 TYPICAL 2ND, 3RD & 4TH FLOORS SHOWER/TUB ROOM LIGHTING NEW LAYOUT
E-08D 1:50



2 TYPICAL 2ND, 3RD & 4TH FLOORS SHOWER/TUB ROOM POWER & SYSTEM NEW LAYOUT
E-08D 1:50

NOTES:

1. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF LIGHT FIXTURES. LOCATION OF OUTLETS AND/OR DIRECT CONNECTIONS TO BE DETERMINED ON SITE. PROVIDE PATCHING AND PAINTING TO MATCH EXISTING AS REQUIRED.
2. CONNECT THE NEW FIXTURE TO EXISTING EMERGENCY LIGHTING CIRCUIT AND SHALL BE ON 24/7.
3. CONNECT THE NEW FIXTURES TO EXISTING NORMAL LIGHTING CIRCUIT AND SHALL BE CONTROLLED LOCALLY BY A NEW OCCUPANCY SENSOR AS INDICATED.
4. AFTER RE AND RE NURSE CALL DEVICES, TEST THE SYSTEM INCLUDING NURSE CALL DOME LIGHTS AND NURSE CALL STATIONS AS REQUIRED.
5. HAND-FREE DEVICES, TRANSFORMER & LOW VOLTAGE WIRING SHALL BE PROVIDED BY MECHANICAL CONTRACTOR OR KITCHEN CONSULTANT. ELECTRICAL CONTRACTOR SHALL PROVIDE 120V POWER CONNECTIONS IN THE CEILING. POWER CONNECTION OR POWER OUTLET TO BE FED FROM AN EXISTING ADJACENT PANEL. CONNECTIONS LOCATION/QUANTITY TO BE COORDINATED ON SITE PRIOR TO INSTALLING.
6. CONTRACTOR TO VERIFY AND PROVIDE NEW POWER CONNECTION AND FEEDERS FOR EXISTING TUB AS REQUIRED.
7. FOR NEW HEATED TOWEL RACK, PROVIDE NEW BREAKER, WIRING AND CONDUIT FROM AN EXISTING ADJACENT PANEL FOR THE NEW POWER CONNECTION. CONTRACTOR TO ENSURE THE PANEL IS NOT OVERLOADED. INSTALL NEW CONDUITS IN CEILING TO SUIT SITE CONDITION AND PROVIDE JB/PULL BOXES AS REQUIRED BY CODE. PROVIDE X-RAY, TRENCHING, CUTTING, PATCHING AND PAINTING AS REQUIRED TO ACCOMMODATE NEW CONDUIT INSTALLATION. RESTORE EXISTING CEILINGS AND WALLS WITH A GOOD CONDITION.
8. CONTRACTOR TO ENSURE THERE IS NO CONFLICT WITH EXISTING CEILING DEVICES/EXHAUST FOR THE NEW INSTALLATION.

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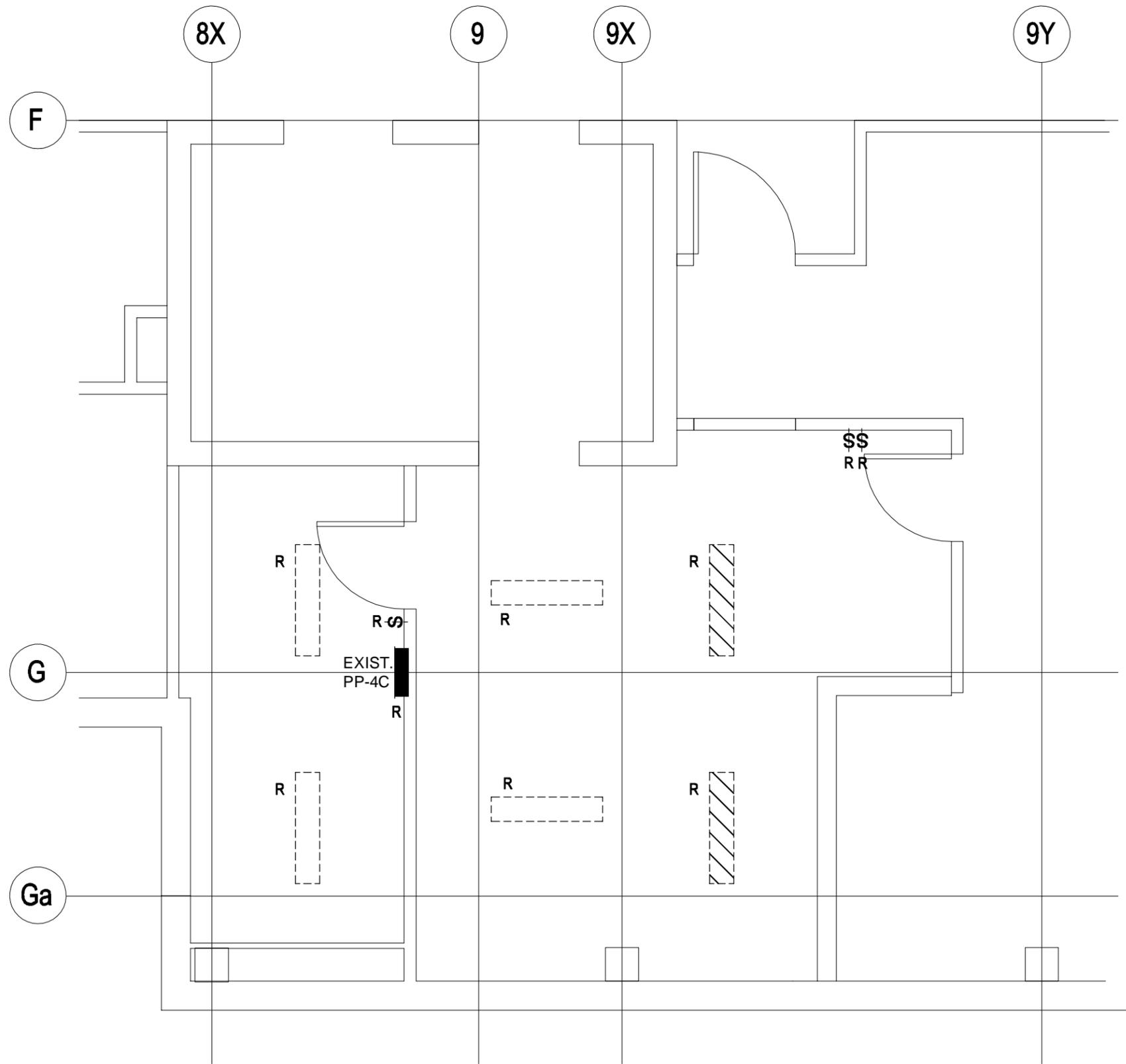
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LAKESHORE LODGE
SERVERY & SHOWER/TUB RENOVATION
3197 LAKE SHORE BLD W. ETOBICOKE, ONTARIO
project
TYPICAL 2ND, 3RD & 4TH FL
SHOWER/TUB - NEW LAYOUTS

LN	AUG. 15, 2022
drawn	date
DS/LN	CEL 21513.03
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scale	ref. no.
E-08	

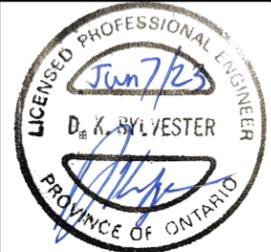


NOTES:

1. UNLESS OTHERWISE NOTED EXISTING LIGHT FIXTURES, CONTROLLED SWITCHES AND WIRING SHALL BE REMOVED AS INDICATED.

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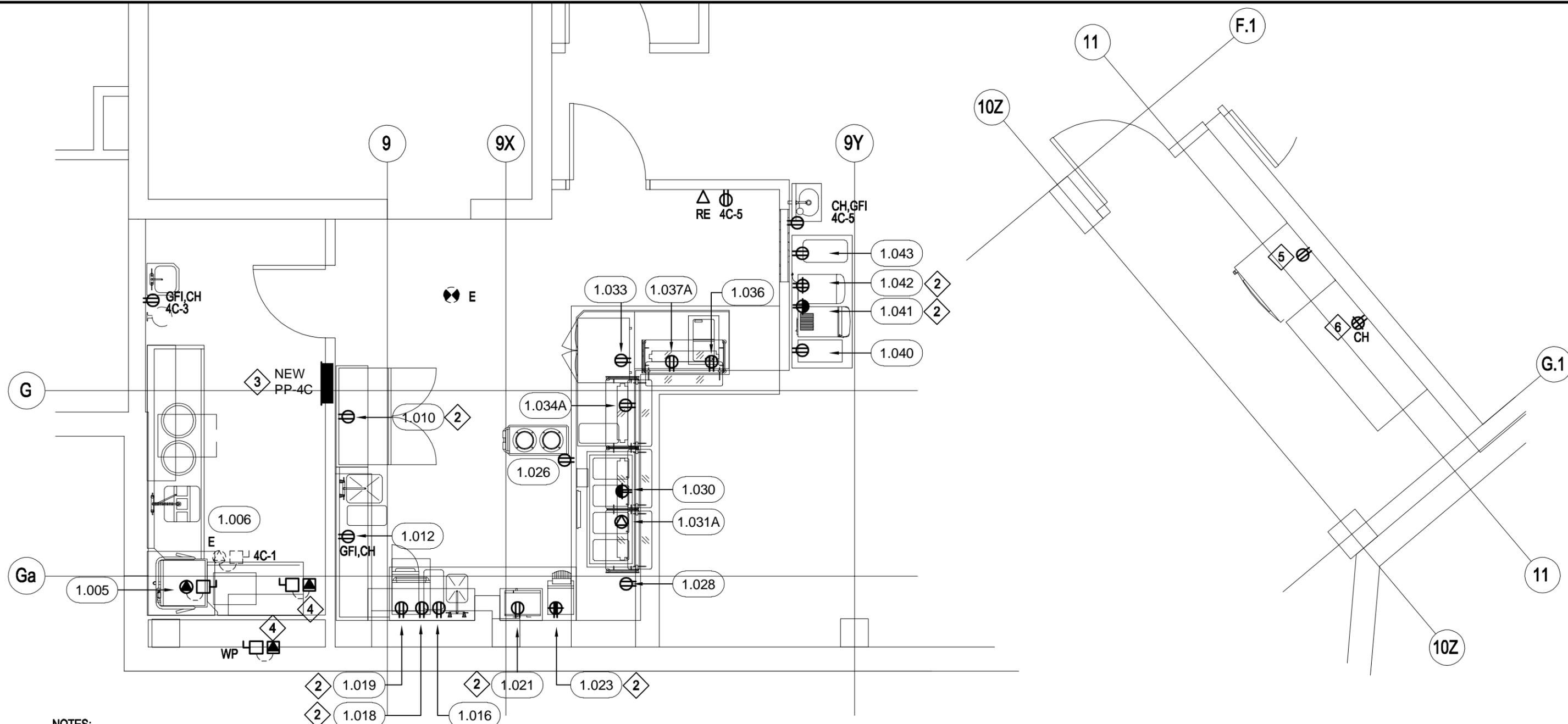
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LAKESHORE LODGE
 SERVERY & SHOWER/TUB RENOVATION
 3197 LAKE SHORE BLD W. ETOBICOKE, ONTARIO
 project
**4TH FLOOR SERVERY
 LIGHTING DEMOLITION**

LN	AUG. 15, 2022
drawn	date
DS/LN	CEL 21513.03
checked by	MSA 21508.F02
1:50	job no.
scale	ref. no.
E-09D	



NOTES:

- 1. REFER TO EQUIPMENT SCHEDULE E-11 FOR RECEPTACLES, POWER CONNECTIONS AND WIRING CABLE SIZES. EXACT LOCATION OF OUTLETS AND/OR DIRECT CONNECTIONS TO BE COORDINATED WITH KITCHEN CONSULTANT AND ARCHITECTURAL DRAWINGS.
- 2. REUSE EXISTING CONDUIT IF SUITABLE.
- 3. REPLACE EXISTING PANEL WITH NEW PANEL PP-4C. REFER TO PANEL SCHEDULE ON E-12 FOR CIRCUITRY. CONTRACTOR IS TO VERIFY EXISTING CIRCUITS TO BE REDIRECTED AS REQUIRED. CONTRACTOR IS TO VERIFY THE EXISTING FEEDERS, BREAKERS FEEDING THE SOURCE PANEL AND EXISTING LOAD TO ENSURE THEY ARE NOT OVERLOADED.
- 4. SPLIT UNIT. REFER TO EQUIPMENT SCHEDULE FOR POWER REQUIREMENT AND CONTROLS. CONTRACTOR TO PROVIDE 15/20A GFI C/W WEATHERPROOF COVERPLATE OUTLET WITHIN 7M NEAR THE OUTDOOR UNIT ON ROOF. CONNECT IT TO A 20A CCT BREAKER IN NEW PP-4C.
- 5. PROVIDE A NEW 15A CCT BREAKER IN AN AVAILAIBLE ADJACENT PANEL FOR THE FRIDGE.
- 6. PROVIDE A NEW 20A CCT BREAKER IN AN AVAILABLE ADJACENT PANEL FOR THE NEW OUTLET.

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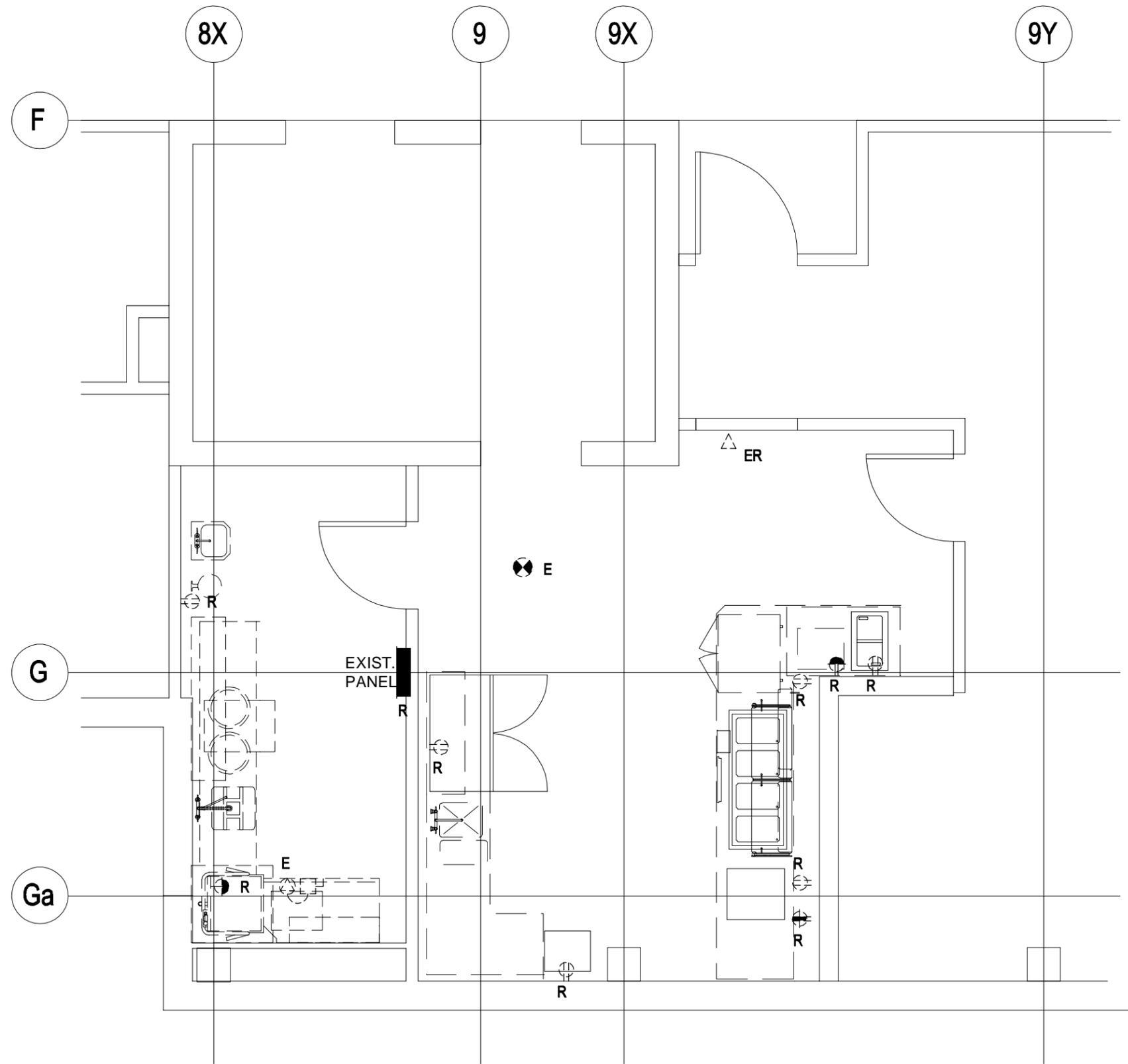


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LAKESHORE LODGE
 SERVERY & SHOWER/TUB RENOVATION
 3197 LAKE SHORE BLD W. ETOBICOKE, ONTARIO

project
**4TH FLOOR SERVERY
 NEW POWER LAYOUT**

LN	AUG. 15, 2022
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E-10	



NOTES:

1. THIS DRAWING DOES NOT SHOW ALL EXISTING ELECTRICAL DEVICES TO BE DEMOLISHED OR REMOVED UNDER THIS CONTRACT. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR THE AREAS TO BE DEMOLISHED AND VERIFY ON SITE. ELECTRICAL CONTRACTOR TO INSPECT THE SITE PRIOR TO THE SUBMISSION OF BID.

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LAKESHORE LODGE
 SERVERY & SHOWER/TUB RENOVATION
 3197 LAKE SHORE BLD W. ETOBICOKE, ONTARIO

project
**4TH FLOOR SERVERY POWER
 DEMOLITION**

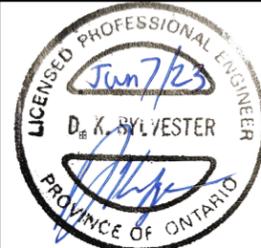
LN drawn	AUG. 15, 2022 date
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1:50 scale	ref. no.
E-10D	

MEP SERVICES ELECTRICAL SCHEDULE

ITEM	QTY	EQUIPMENT DESCRIPTION	EQUIPMENT REMARKS	AMPS	VOLTS	PHASE	HZ	CONNECTION	BREAKER	FEEDER SIZE	REMARKS
1.005	1	NEW DISHWASHER		46.0	208-240	3	60	DIRECT	60A-3P	3#6 IN 1"C	
1.006	1	EXISTING CONDENSATE HOOD	TO REMAIN								
1.010	1	EXISTING REACH-IN REFRIGERATOR - RELOCATED	POWER REQ'D TO BE CONFIRMED BY ELECTRICAL	5.4	120	1	60	PLUG	15A-1P	2#12 IN 3/4"C	NEMA 5-15P
1.012	1	NEW S.S CABINET WITH PREP SINK		12.0	120	1	60	PLUG	15A-1P	2#12 IN 3/4"C	NEMA 5-15P GFI - GENERAL PURPOSE
1.016	1	NEW S.S. CABINET WITH HAND SINK		12.0	120	1	60	PLUG	15A-1P	2#12 IN 3/4"C	NEMA 5-15P GFI - GENERAL PURPOSE
1.018	1	EXISTING COUNTERTOP OVEN - RELOCATED	POWER REQ'D TO BE CONFIRMED BY ELECTRICAL	12.0	120	1	60	PLUG	15A-1P	2#12 IN 3/4"C	NEMA 5-15P
1.019	1	EXISTING UNDERCOUNTER ICE MACHINE - RELOCATED	POWER REQ'D TO BE CONFIRMED BY ELECTRICAL	3.3	120	1	60	PLUG	15A-1P	2#12 IN 3/4"C	NEMA 5-15P
1.019A	1	NEW WATER FILTER	LOCATION TO BE CONFIRMED								
1.021	1	EXISTING MICROWAVE OVEN - RELOCATED	POWER REQ'D TO BE CONFIRMED BY ELECTRICAL	13.4	120	1	60	PLUG	15A-1P	2#12 IN 3/4"C	NEMA 5-15P
1.023	1	EXISTING CONVEYOR TOASTER - RELOCATED	POWER REQ'D TO BE CONFIRMED BY ELECTRICAL	13.5	208	1	60	PLUG	20A-2P	2#12 IN 3/4"C	NEMA 6-20P
1.026	1	NEW MOBILE HEATED PLATE DISPENSER		8.8	120	1	60	PLUG	15A-1P	2#12 IN 3/4"C	NEMA 5-15P
1.028	1	NEW MILLWORK WALL WITH QUARTZ TOP	BY MILLWORK DIVISION	12.0	120	1	60	PLUG	15A-1P	2#12 IN 3/4"C	NEMA 5-15P
1.030	1	NEW DROP-IN HOT/COLD WELL		23.7	120	1	60	PLUG	30A-1P	2#10 IN 3/4"C	NEMA 5-30P
1.031A	1	NEW HEATLAMP		10.7	120	1	60	DIRECT	15A-1P	2#12 IN 3/4"C	
1.033	1	NEW UNDERCOUNTER REFRIGERATOR		2.0	120	1	60	PLUG	15A-1P	2#12 IN 3/4"C	NEMA 5-15P
1.034A	1	NEW DISPLAY LIGHT		1.0	120	1	60	PLUG	15A-1P	2#12 IN 3/4"C	NEMA 5-15P
1.036	1	NEW DROP-IN ICE CREAM CHEST FREEZER		1.8	120	1	60	PLUG	15A-1P	2#12 IN 3/4"C	NEMA 5-15P
1.037A	1	NEW DISPLAY LIGHT		1.0	120	1	60	PLUG	15A-1P	2#12 IN 3/4"C	NEMA 5-15P
1.040	1	NEW MILLWORK CABINET WITH QUARTZ TOP	BY MILLWORK DIVISION	12.0	120	1	60	PLUG	15A-1P	2#12 IN 3/4"C	NEMA 5-15P GENERAL PURPOSE
1.041	1	EXISTING LIQUID COFFEE MACHINE - RELOCATED	POWER REQ'D TO BE CONFIRMED BY ELECTRICAL	25.0	208-240	1	60	PLUG	30A-2P	2#10 IN 3/4"C	NEMA L6-30P
1.041A	1	NEW WATER FILTER	LOCATION TO BE CONFIRMED								
1.042	1	EXISTING JUICE DISPENSER - RELOCATED	POWER REQ'D TO BE CONFIRMED BY ELECTRICAL	6.0	120	1	60	PLUG	15A-1P	2#12 IN 3/4"C	NEMA 5-15P
1.042A	1	NEW WATER FILTER	LOCATION TO BE CONFIRMED								
1.043	1	NEW ICE AND WATER DISPENSER		5.0	120	1	60	PLUG	15A-1P	2#12 IN 3/4"C	NEMA 5-15P
1.043A	1	NEW WATER FILTER	LOCATION TO BE CONFIRMED								

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LAKESHORE LODGE
 SERVERY & SHOWER/TUB RENOVATION
 3197 LAKE SHORE BLD W. ETOBICOKE, ONTARIO
 project
SERVERY EQUIPMENT SCHEDULE

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E-11

Lakeshore Lodge Servery renovation

Panel Schedule

Job No. **19504.E01**

Panel: **NEW PP-4C**

Voltage: **120 / 208**

Date: **November 30, 2022**

Ph/Wire: **3/4**

Panel Mains: **225 amps**

Mounting: **Recessed**

Fed from: **Existing DP-2S (2nd FL South Electrical)**

Tub Type: **Single**

Location: **4th Floor Servery**

Main Breaker: **None**

BRKR	GFI	DESCRIPTION	C [W]	d.f.	D [W]	cct	bus	cct	D [W]	d.f.	C [W]	DESCRIPTION	GFI	BRKR
15A-1P		EXIST. CONDENSATE HOOD	800	0.8	640	1	a	2	640	0.8	800	NEW S.S CABINET (1.012)		15A-1P
15A-1P		RECEPTACLE	600	0.8	480	3	b	4	640	0.8	800	NEW S.S CABINET (1.016)		15A-1P
15A-1P		RECEPTACLE	600	0.8	480	5	c	6	960	0.8	1200	EX COUNTERTOP OVEN (1.018)		15A-1P
15A-1P		NEW DISPLAY LIGHT (1.034A)	800	0.8	640	7	a	8	400	0.8	500	EX U/C ICE MACHINE (1.019)		15A-1P
15A-1P		NEW ICE CREAM (1.036)	500	0.8	400	9	b	10	960	0.8	1200	EX MICROWAVE OVEN (1.021)		15A-1P
15A-1P		NEW DISPLAY LIGHT (1.037A)	800	0.8	640	11	c	12	960	0.8	1200	EX CONVEYOR TOASTER (1.023)		20A-2P
15A-1P		NEW MILLWORK CABINET (1.040)	800	0.8	640	13	a	14	960	0.8	1200			
30A-2P		EX COFFEE MACHINE (1.041)	4000	0.8	3200	15	b	16	800	0.8	1000	NEW HEATED PLATE (1.026)		15A-1P
			4000	0.8	3200	17	c	18	800	0.8	1000	NEW MILLWORK WALL (1.028)		15A-1P
15A-1P		EX JUICE DISPENSER (1.042)	800	0.8	640	19	a	20	2240	0.8	2800	NEW HOT/COLD WELL (1.030)		30A-1P
15A-1P		NEW ICE DISPENSER (1.043)	800	0.8	640	21	b	22	960	0.8	1200	NEW HEAT LAMP (1.031A)		15A-1P
15A-1P		LIGHTS	900	1	900	23	c	24	400	0.8	500	NEW U/C FRIDGE (1.033)		15A-1P
15A-1P		LIGHTS	900	1	900	25	a	26	0	0.8		SPARE		20A-1P
20A-1P		SPARE		0.8	0	27	b	28	0	0.8		SPARE		20A-1P
20A-1P		SPARE		0.8	0	29	c	30	0	0.8		SPARE		20A-1P
60A-3P		DISHWASHER (1.005)	5000	0.8	4000	31	a	32	0	0.8		SPARE		15A-1P
			5000	0.8	4000	33	b	34	0	0.8		SPARE		15A-1P
			5000	0.8	4000	35	c	36	0	0.8		SPARE		15A-1P
15A-1P		SPARE		0.8	0	37	a	38	0	0.8		SPARE		15A-1P
15A-1P		SPARE		0.8	0	39	b	40	800	0.8	1000	CU-1		20A-2P
15A-1P		SPARE		0.8	0	41	c	42	800	0.8	1000			

CONNECTED 'A' **14400 W**
 CONNECTED 'B' **16100 W**
 CONNECTED 'C' **16200 W**

11700 W DEMAND 'A'
12880 W DEMAND 'B'
13140 W DEMAND 'C'

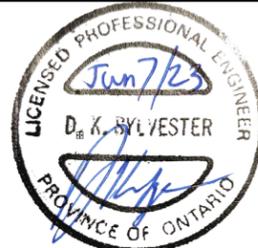
Notes: CONTRACTOR TO VERIFY EXISTING FEEDERS AND BREAKERS FEEDING THE SOURCE PANEL TO ENSURE THEY ARE NOT OVERLOADED.

TOTAL DEMAND AMPS	104.7	A
TOTAL CONNECTED LOAD	46.7	kW
TOTAL DEMAND LOAD	37.7	kW

Remarks:

MONTGOMERY SISAM ARCHITECTS INC.
 197 SPADINA AVENUE, SUITE 301
 TORONTO, ONTARIO
 M5T 2C8
 TEL: 416.364.8079
 FAX: 416.364.7723

CROSSEY
 ENGINEERING
 LTD.
 2255 Sheppard Avenue. E.
 Suite E 331
 North York, On M2J 4Y1
 (416)497.3111 fax (416)497.7210



2	ISSUED FOR PERMIT & TENDER	JUNE 05, 2023
1	ISSUED FOR OWNER'S REVIEW	JULY 21, 2022

LAKESHORE LODGE
 SERVERY & SHOWER/TUB RENOVATION
 3197 LAKE SHORE BLD W. ETOBICOKE, ONTARIO

PANEL SCHEDULE

LN **AUG. 15, 2022**
 drawn date
 DS/LN **CEL 21513.03**
 checked by MSA 21508.F02
 job no.
 N.T.S.
 scale
 ref. no.
E-12