ELECTRICAL SPECIFICATIONS:

1. EXAMINE SITE AND CONDITIONS

- 1.1. EXAMINE THE SITE, EXISTING BUILDING AND THE LOCAL CONDITIONS AFFECTING THE WORK. NO ALLOWANCE WILL BE MADE LATER FOR ANY EXPENSES INCURRED THROUGH THE FAILURE TO MAKE THESE EXAMINATIONS OR TO REPORT ANY SUCH DISCREPANCIES IN WRITING TO THE CONSULTANT.
- 2. CUTTING AND PATCHING
- 2.1. ALL CUTTING AND PATCHING REQUIRED BY THE SUBCONTRACTOR SHALL BE PERFORMED BY THE SUBCONTRACTOR. ALL SUCH WORK SHALL BE DONE BY TRADESMEN SKILLED IN AND CERTIFIED FOR THIS PARTICULAR TRADE.
- 2.2. PROVIDE FIRE BARRIERS AROUND ALL COMPONENTS IN HOLES WHICH PENETRATE FIRE SEPARATIONS. THE FIRE BARRIER MEDIUM PROVIDED SHALL MAKE THE FIRE SEPARATION EQUAL TO OR BETTER THAN THE ONE WHICH WAS CUT AWAY. ALL MATERIALS SHALL BE CSA APPROVED AND UL LISTED.
- 2.3. PROVIDE ACCESS PANELS AND DOORS REQUIRED FOR THE WORK OF THIS DIVISION.
- 2.4. WHERE SLABS AND FOUNDATION WALLS ARE TO BE CORE-DRILLED AND OPENINGS TO BE CUT. ALL LOCATIONS SHALL BE X-RAYED PRIOR TO DRILLING OR SAWCUTTING.
- 2.5. ALL X-RAYING SHALL BE DONE AFTER 21:00 HOUR AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION. ONLY PERSONNEL QUALIFIED IN THE USE OF THE TYPE OF EQUIPMENT REQUIRED TO X-RAY THE SAWCUTS OR DRILLING SHALL BE PERMITTED TO PERFORM THIS WORK ON THE SITE. NO ALLOWANCE WILL BE MADE LATER FOR EXPENSES INCURRED THROUGH THE FAILURE OF PERFORMING THESE X-RAYS.
- 2.6. PROVIDE AMPLE NOTICE AND COORDINATE THIS WORK WITH LANDLORD FOR TIME. DURATION AND LOCATIONS REQUIRED AND ADHERE TO THE LANDLORDOS REQUIREMENTS. NO SAWCUTS OR DRILLING SHALL PROCEED WITHOUT PRIOR WRITTEN CONSENT OF THE LANDLORD. RETAIN AND PAY FOR THE SERVICES OF BUILDING STRUCTURAL CONSULTANT, FOR REVIEWING AND APPROVING BUILDING STRUCTURE TO BE
- 2.7. FOR WORK TO BE CARRIED OUT IN OTHER TENANT'S SPACE, GENERAL CONTRACTOR SHALL INCLUDE COSTS OF SECURITY GUARD SERVICES AS REQUIRED BY THE LANDLORD.
- 2.8. ALL NOISE RELATED CONSTRUCTION ACTIVITIES SUCH AS DRILLING AND FLOOR CORING SHALL BE RESTRICTED TO AFTER REGULAR WORKING HOURS AND APPROVED BY THE LANDLORD. WORKING HOURS ARE FROM 8:00 AM TO 6:00
- 3. CODES, PERMITS, FEES AND INSPECTIONS
- 3.1. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL BY-LAWS AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION.
- 3.2. ALL EQUIPMENT SUPPLIED SHALL CONFORM TO THE REGULATIONS OF CSA AND THE ONTARIO HYDRO.
- 3.3. PROVIDE ALL NECESSARY NOTICES, OBTAIN ALL REQUIRED PERMITS AND PAY ALL FEES TO ARRANGE FOR INSPECTION OF ALL WORK. FURNISH FINAL UNCONDITIONAL CERTIFICATE OF APPROVAL UPON COMPLETION OF THE WORK.
- 4. GUARANTEE
- 4.1. THIS SUBCONTRACTOR SHALL GUARANTEE ALL WORK AND APPARATUS INSTALLED UNDER HIS CONTRACT AGAINST ALL DEFECTS OF WORKMANSHIP AND MATERIAL FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE OF HIS WORK BY THE OWNER AND SHALL MAKE GOOD ALL DEFECTS DEVELOPING DURING SUCH TIME WITHOUT ADDITIONAL EXPENSE TO THE OWNER.
- 5. SHOP DRAWINGS
- 5.1. SUBMIT SHOP DRAWINGS AS REQUESTED BY THE CONSULTANT. SHOP DRAWINGS SHALL INDICATE CLEARLY THE MATERIALS AND/OR EQUIPMENT ACTUALLY BEING SUPPLIED, ALL DETAILS OF CONSTRUCTION, ACCURATE DIMENSIONS, CAPACITY, OPERATING CHARACTERISTICS AND PERFORMANCE.
- 6. IDENTIFICATION AND LABELING
- 6.1. IN EACH JUNCTION AND OUTLET BOX, PROPERLY IDENTIFY THE BRANCH WIRING WITH CIRCUIT TAGS.
- 6.2. REVISE EXISTING DIRECTORY OF PANELBOARDS TO THE CONSULTANT'S SATISFACTION, CLEARLY INDICATING ALL BRANCH LOADS ADDED OR REVISED. ALL PANEL DIRECTORIES (REVISED OR NEW) SHALL BE TYPED WRITTEN.
- 6.3. PROVIDE IDENTIFICATION LAMACOID NAMEPLATES WHICH ARE GLUE ATTACHED FOR THE NEW EQUIPMENT. IDENTIFICATION TO INCLUDE NAME OF THE EQUIPMENT / NAME OF THE SUPPLY SOURCE; RATED LOAD AMP (A) OR HORSEPOWER (HP) – VOLTAGE (V) – NUMBER OF PHASE (Ø) – NUMBER ÒF WIRE (W)

E.G. PANEL C (½") FED FROM PANEL SEP (3/8") 100A - 120/208V - 30 - 4W (3/8")

- 6.4. NAMEPLATES TO BE A BLACK BACKGROUND WITH WHITE ENGRAVED LETTERS FOR BUILDING POWER AND RED BACKGROUND WITH WHITE ENGRAVED LETTERS FOR GENERATOR OR UPS POWER. MINIMUM SIZE LETTERS 3/8". SUBMIT WORDINGS OF NAMEPLATES FOR APPROVAL PRIOR TO MANUFACTURE.
- 6.5. NAMEPLATES TO BE PROVIDED FOR SWITCHBOARDS. DISTRIBUTION PANELS, BRANCH PANELBOARDS, DISCONNECTS, TRANSFORMERS, STARTERS, WIREWAYS, POWER SUPPLIES AND OTHER MAJOR SYSTEMS COMPONENTS.
- 6.6. FOR EACH NEWLY INSTALLED AND EXISTING RECEPTACLE AND SYSTEM FURNITURE CONNECTIONS IN THE RENOVATED SPACE, PROVIDE CIRCUIT IDENTIFICATION ON THEIR FACEPLATES WITH DYMO-TAPEOOR APPROVED EQUIVALENT INDICATING PANEL DESIGNATION AND CIRCUIT NUMBER.

7. RECORD DRAWINGS

- 7.1. PROVIDE ONE SET OF HARD COPY OF "ISSUED FOR CONSTRUCTION" ELECTRICAL DRAWINGS AT SITE AT ALL TIME. AS JOB PROGRESSES. MARK UP THE DRAWINGS IN RED TO ACCURATELY INDICATE INSTALLED WORK. UPON COMPLETION OF THIS WORK, HAND THESE OVER TO THE CONSULTANT FOR REVIEW AND APPROVAL. INCORPORATE APPROVED CHANGES ONTO AUTOCAD AS-BUILT DRAWINGS AND SUBMIT THEM TO THE CONSULTANT.
- 8. ADDITIONAL WORK AND CHANGES
- 8.1. NO ADDITIONAL MONEY OVER AND ABOVE THE CONTRACT PRICE, WILL BE PAID FOR EXTRA WORK UNLESS A WRITTEN ORDER, APPROVED BY THE OWNER. ELECTRICAL CONTRACTOR SHALL SUBMIT A QUOTATION WITH A COMPLETE BREAKDOWN OF MATERIALS, LABOUR AND MARKUPS, WHEN SUBMITTING LUMP SUM PRICES FOR EXTRAS AND CREDITS.
- 9. MATERIALS AND STANDARDS
- 9.1. MATERIALS AND METHODS OF INSTALLATION NOT SPECIFIED

SHALL AT LEAST EQUAL TO OR MATCH WITH BASE BUILDING. 10. ALTERNATIVES AND SUBSTITUTIONS

- 10.1. NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN APPROVAL.
- 10.2. ANY ALTERNATIVE SUGGESTED SHALL BE ACCOMPANIED BY ALL DATA REQUIRED TO EVALUATE THE ALTERNATIVE. ALTERNATIVES SHALL BE ACCEPTED ONLY AT THE DIRECTION OF THE CONSULTANT.
- 10.3. THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PERFORMANCE AND EXTRA COST OR LIABILITY OF ALL SUBSTITUTIONS AND ALTERNATIVES.

11. PROTECTION

- 11.1. PROTECT ALL EQUIPMENT FROM WEATHER AND CONSTRUCTION DEBRIS UNTIL SUBSTANTIAL COMPLETION IS ACKNOWLEDGED AND BUILDING IS TURNED OVER TO OWNER. 12. PREMIUM TIME
- 12.1. ALL WORK WHICH SHALL REQUIRE SHUTDOWN OF ELECTRICAL SERVICES AND LIFE SAFETY SYSTEM, AND NOISE-RELATED CONSTRUCTION ACTIVITIES SHALL BE PERFORMED ON PREMIUM TIME. INCLUDE IN THE TENDER PRICE FOR SUCH WORK.

13. BASE BUILDING REQUIREMENTS

- 13.1. ALL CONSTRUCTION WORK IN THE BUILDING MUST BE CARRIED OUT IN STRICT ACCORDANCE WITH LANDLORD RULES AND REGULATIONS OF THE LEASEHOLD IMPROVEMENT MANUAL AND BE CLEARED THROUGH PROPERTY MANAGEMENT. OBTAIN A COPY OF SUCH RULES AND REGULATIONS FROM PROPERTY MANAGEMENT PRIOR TO TENDER CLOSE.
- 13.2. WHEN NECESSARY TO RUN ELECTRICAL CORDS IN COMMON AREAS, CORDS TO BE STRUNG OVERHEAD IN CEILING.
- 13.3. DELIVERIES TO BE ARRANGED THROUGH BUILDING SUPERINTENDENT OF ANY WORK SCHEDULED AFTER NORMAL BUSINESS HOURS OR ON THE WEEKEND SO HE MAY NOTIFY SECURITY TO ALLOW CONTRACTORS ENTRANCE TO THE BUILDING.
- 13.4. ALL ELECTRICAL WORK TO BE UNDERTAKEN BY QUALIFIED TRADESMEN WHO ARE TO SUPPLY THEIR TICKET NUMBER TO THE BUILDING SUPERINTENDENT PRIOR TO COMMENCING WORK. UNDER NO CIRCUMSTANCES SHALL AN APPRENTICE BE PERMITTED TO WORK IN THE BUILDING UNLESS DIRECTLY SUPERVISED BY A QUALIFIED TRADESMAN ON SITE.
- 13.5. THE SUBCONTRACTOR SHALL BE IN GOOD STANDING WITH THE WORKMEN'S COMPENSATION BOARD AND CARRY INSURANCE AS SPECIFIED BY THE ONTARIO CONTRACTORS ASSOCIATION.

14. WIRING METHODS

- 14.1. POWER AND LIGHTING DISTRIBUTION SYSTEMS:
- 14.1.1. UNLESS OTHERWISE INDICATED, WIRES IN EMT CONDUITS WITH WATERTIGHT COUPLINGS FOR FEEDERS AND BRANCH WIRING. AC90 CABLE SHALL ONLY BE USED IN DRYWALL CEILING, WITHIN DRYWALL PARTITIONS AND FOR FIXTURE DROPS FROM LIGHTING JUNCTION BOXES. MAXIMUM AC-90 CABLE LENGTH USED SHALL NOT EXCEED 15'.
- 14.1.2. WIRING BETWEEN NEW POWER JUNCTION BOXES IN THE CEILING AND INCLUDING ALL HOME RUN TO BRANCH PANEL - STRICTLY WIRES IN EMT CONDUITS.
- 14.1.3. WIRING BETWEEN NEW LIGHTING JUNCTION BOXES IN CEILING AND INCLUDING HOME RUN TO BRANCH PANEL - WIRES IN EMT CONDUITS.
- 14.2. USE LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT COMPLETE WITH SEPARATE GROUND WIRE FOR CONNECTION TO MOTORS, SECONDARY TRANSFORMERS, ETC.
- 14.3. TELEPHONE AND DATA SYSTEMS: FISH WIRE IN EMT CONDUITS AND SURFACE METAL RACEWAYS. MINIMUM SIZE CONDUIT SHALL BE 3/4". CABLE TRAY SYSTEM AS INDICATED.
- 14.4. ALL WIRING IN FINISHED AREAS SHALL BE INSTALLED CONCEALED. NO EXPOSED WIRING IN FINISHED AREAS SHALL BE PERMITTED.

15. REMOVAL

- 15.1. REMOVE ALL REDUNDANT WIRING INCLUDING VOICE, DATA AND POWER WIRING LEFT BY THE PREVIOUS TENANT IN CEILING SPACE. REMOVE VOICE AND DATA JACKS, BOXES AND PLATES WHERE CABLES ARE REMOVED. GENERAL CONTRACTOR TO PATCH, PRIME AND PAINT SUCH HOLES IN DRYWALL.
- 15.2. REMOVE ALL EXISTING WIRING DEVICES. WIRING AND CONDUITS IN WALLS OR CEILINGS WHICH ARE TO BE REMOVED.
- 15.3. ALL SYSTEMS AND COMPONENTS WHICH ARE AFFECTED BY THE RENOVATION SHALL REMAIN OPERATIONAL SUBSEQUENT TO PROJECT COMPLETION.
- 15.4. RELAMP, REFURBISH, REPAIR, REPLACE AS NECESSARY ALL DEFECTIVE PARTS OF ALL EXISTING LUMINARIES DESIGNATED TO REMAIN AND BE REUSED.

16. WIRE AND CABLE

- 16.1. UNLESS OTHERWISE NOTED ON DRAWINGS, CONDUCTORS SHALL BE OF COPPER, RATED MINIMUM #12, 600 VOLTS, 90 DEG. C. USE STRANDED CONDUCTORS FOR WIRE SIZES #12 AWG OR LARGER.
- 16.2. WIRING SHALL BE CONTINUOUS WITHIN RACEWAYS AND SPLICES SHALL BE PERMITTED ONLY AT OUTLETS AND JUNCTION BOXES.
- 17. WIRING DEVICES
- 17.1. SPECIFICATION GRADE, WHITE COLOR, DECORA STYLE FOR RECEPTACLES AND COVERPLATES.
- 17.2. LIGHT SWITCH: SINGLE POLE SPECIFICATION GRADE ROCKER SWITCH, 20A, 347V, P & S 2621347-W.
 - SINGLE POLE, SPECIFICATION GRADE, ROCKER SWITCH, 20A, 120V, P & S 2621-W.

RECEPTACLE:

- DUPLEX, 15A, 125VAC, SPECIFICATION GRADE, P & S DECORA STYLE 26252-W.
- DUPLEX, 15/20A, 125VAC, SPECIFICATION GRADE, P & S DECORA STYLE 26352-W. NEMA 5-20RA.
- 17.3. VERIFY MOUNTING HEIGHT AND LOCATIONS OF ALL WIRING DEVICES WITH INTERIOR DESIGNER PRIOR TO ROUGH-IN.
- 17.4. WHERE LIGHTING SWITCHES, DIMMERS AND FAN SWITCH ARE SHOWN GROUPED TOGETHER. THEY SHALL BE INSTALLED IN SAME COMMON GANG COVERPLATE AND BOX WHERE POSSIBLE WITHOUT BREAKING OFF HEAT SINKS. PROVIDE NECESSARY BARRIER IN OUTLET BOX TO SEPARATE 120V

FROM 347V.

18. BASE BUILDING LIGHTING

18.1. ALL NEW AND RELOCATED LIGHTING FIXTURES IN RENOVATED AREA SHALL BE SUPPORTED BY APPROVED CHAINS WHICH SHALL ALLOW THE FIXTURES TO BE SUPPORTED INDEPENDENT OF THE CEILING SYSTEM. SEE "LIGHT FIXTURE SUPPORT DETAIL".

19. MANUAL MOTOR STARTERS

19.1. AS INDICATED, PROVIDE SINGLE PHASE MANUAL MOTOR STARTERS OF APPROPRIATE SIZE AND TYPE, INCLUDING: 19.1.1. QUICK MAKE AND BREAK SWITCHING MECHANISM.

- 19.1.2. OVERLOAD HEATER WITH MANUAL RESET AND TRIP INDICATION SIZED TO MATCH THE NAMEPLATE FULL LOAD CURRENT OF THE MOTOR.
- 19.1.3. INTEGRAL NEON PILOT LIGHT.
- 19.1.4. IN FINISHED AREAS, STARTERS SHALL BE FLUSH MOUNTED WITH STAINLESS STEEL COVERS.
- 20. CLOSED OUT DOCUMENTS

20.1. AT THE END OF THE PROJECT, SUBMIT 3 COPIES OF CLOSED OUT DOCUMENTS CONTAINING NEW EQUIPMENT SHOP DRAWINGS REVIEWED BY THE CONSULTANT, HYDRO INSPECTION CERTIFICATE, WARRANTY CERTIFICATE, FIRE ALARM VERIFICATION CERTIFICATE WITH DETAILED TECHNICIANOS TEST REPORT, AS-BUILT DRAWINGS, PERMIT CLOSURE NOTICE.

LEGE			
<u>NOTES:</u>	EQUIPMENT SHOWN DOTTED [] ARE EXISTING TO BE REMOVED. EQUIPMENT SHOWN [] ARE EXISTING TO REMAIN. EQUIPMENT SHOWN SOLID [] ARE NEW OR RELOCATED.		
N/L	NEW OR RELOCATED FLUORESCENT OR LED LUMINAIRE REFER TO LUMINAIRE SCHEDULE. (N/L DENOTES NIGHT LIGHT.)	₽	15A-125V 2P-3W GROUNDED QUADR RECEPTACLE, WALL MOUNTED.
	EXISTING FLUORESCENT OR LED LUMINAIRE	\$	20A-125V 2P-3W (5-20RA) GROUNE RECEPTACLE, WALL MOUNTED.
[7 [2]]	EXISTING TO BE REMOVED FLUORESCENT OR LED LUMINAIRE	$\overline{\mathbf{\Phi}}$	30A-250V 2P-3W (5-20RA) GROUND RECEPTACLE, WALL MOUNTED.
Q_, Q Ø	EMERGENCY LIGHTING REMOTE HEAD(S).	$\mathbf{\Phi}$	30A-125/250V 3P-4W (14-30RA) G RECEPTACLE, WALL MOUNTED.
BAT	EMERGENCY LIGHTING BATTERY UNIT C/W HEAD(S).		
	INCANDESCENT, PL OR LED LUMINAIRE.	$\mathbf{\Phi}$	15A-125V 2P-3W GROUNDED DUPLE> RECEPTACLE IN OUTLET BOX MOUNTE CEILING SLAB.
Ø,Ø	EXIT LIGHTS.	$\mathbf{\nabla}$	
	SELF-POWER EXIT LIGHTS.	¥	WALL MOUNTED COMBINATION DATA/ OUTLET C/W FISH WIRE & WHITE FAC UNLESS OTHERWISE NOTED, PROVIDE
\$,\$	SINGLE POLE, SINGLE THROW SWITCH. (F DENOTES FAN, 3 DENOTES 3-WAY, M DENOTES MASTER)	∇	FROM OUTLET TO ACCESSIBLE CEILING
ф	DIMMER	·	WIRE & WHITE FACEPLATE. UNLESS C NOTED, PROVIDE 1"C FROM OUTLET T ACCESSIBLE CEILING SPACE.
٢	CEILING MOUNTED OCCUPANCY SENSOR WATTSTOPPER DT-300 OR EQUAL. (CONFIRM WIRING WITH MANUFACTURER'S	SJ	SECURITY JUNCTION BOX.
	ÈRINTED BROCHURE).	CR	CARD READER.
PP	UNIVERSAL VOLTAGE POWER PACK. WATTSTOPPER BZ-150 UNLESS OTHERWISE NOTED.	DC	DENOTES MAGNETIC DOOR CONTACT.
	120V CONNECTION TO EQUIPMENT.	ES	DENOTES ELECTRIC STRIKE.
	208V 1¢ CONNECTION TO EQUIPMENT.	REX	DENOTES REQUEST FOR EXIT SENSOR
L ●	DISCONNECT SWITCH.	MP2	WALL MOUNTED DOUBLE GANG MUD F UNLESS OTHERWISE NOTED, PROVIDE FROM MUD RINGS TO ACCESSIBLE CE
φ	15A-125V 2P-3W GROUNDED DUPLEX GENERAL PURPOSE RECEPTACLE, WALL MOUNTED.	\oslash	DENOTES HEAT DETECTOR.

LUMINAIRE SCHE					
F	VOLT	LAMPS	CATALOGUE NO.	MANUFACTURER	TYPE
NEW RECESSED DRYWALL CEILING	120V	LED 34.4W 3500°K 4000 LUMENS	CPX-2X4-AL07-80CRI SWW7-SWL-120	LITHONIA	W4
NEW RECESSED T-BAR CEILING N	120V	LED 40W 3500°K 4000 LUMENS	EPANL-2X4-4000LM 80CRI-35K-MIN10 ZT-MVOLT-U	LITHONIA	L4
RELOCATED EXT'G 2'x4' LED FLA	120V	LED 40W 3500°K 4000 LUMENS	EPANL-2X4-4000LM 80CRI-35K-MIN10 ZT-MVOLT-U	LITHONIA	RL
PROVIDE MOUNTING AS SHOWN / UNIVERSAL AC VOLTAGE	120V AC 6VDC	2-4W PAR18 LED	SL-RM-6-36-U-OLR W-2SR-LED-120	BEGHELLI	X3
CEILING MOUNTED SINGLE MICRO	12VDC	1-5W MR16 LED	SR-1-6	BEGHELLI	EM1

		_	
	CH DENOTES MOUTNED 6" ABOVE COUNTER TOP OR SPLASHBACK.		
DED DUPLEX	IG DENOTES ISOLATED GROUND. GFI DENOTES GROUND FAULT INTERUPTOR.		
DED QUADRAPLEX	+42" DENOTES TO BE INSTALLED 42" ABOVE FINISHEDFLOOR.		
GROUNDED SIMPLEX	BO DENOTES BLANKED OFF		
X ED ON	 4A-1-a DENOTES ELECTRICAL EQUIPMENT CONNECTED TO PANEL 4A, CIRCUIT #1 SWITCHED BY LINE VOLTAGE SWITCH a. 		
VOICE CEPLATE.	DENOTES NOTE 2.		
1"C G SPACE.	(EF1) DENOTES MECHANICAL EQUIPMENT EF-1.		
C/W FISH DTHERWISE TO			
-			
R.			
RING. 2"C			
EILING SPACE.			
DULE		Tanco Engineering Li Consulting Engineers	mited
REMARKS		80 Nashdene Road, Suite 213 Scarborough, Ontario	
G MOUNTED 2'x4' LEE	D FLAT PANEL / 0-10V DIMMING / WET LOCATION LISTED	M1V 5E4 (416) 321-3022	
MOUNTED 2'x4' LED	FLAT PANEL / 0-10V DIMMING	No. Date Issued or Revised	
	DIMMING / 120° BEAM ANGLE		
AT PANEL / U-TUV L	JIMMING / 120 BEAM ANGLE	_	
/ WHITE FINISH / PIO	CTOGRAM STEEL SELF-POWERED COMBINATION UNIT / 36W BATTERY	Dec 4, 2024 Issued for Tender Nov 29, 2024 Issued for Permit	
HEAD / ADJUST MIC	CRO HEADS AS DIRECTED / WHITE FINISH		
		-	
		_	
		STAMP	
		OROFESSION	
		- A A A	
		S C. W. M. CHONG S	
		BOLMICE OF ONTRAIL	
		CITY OF TORONTO	
		330 BERING AVENUE ETOBICOKE, ON	
		DRAWING TITLE	
		LEGEND, SPECIFICATIO	NS &
		SCHEDULES	
		SCALE DATE AS NOTED OCT, 2	2022

PROJECT NO.

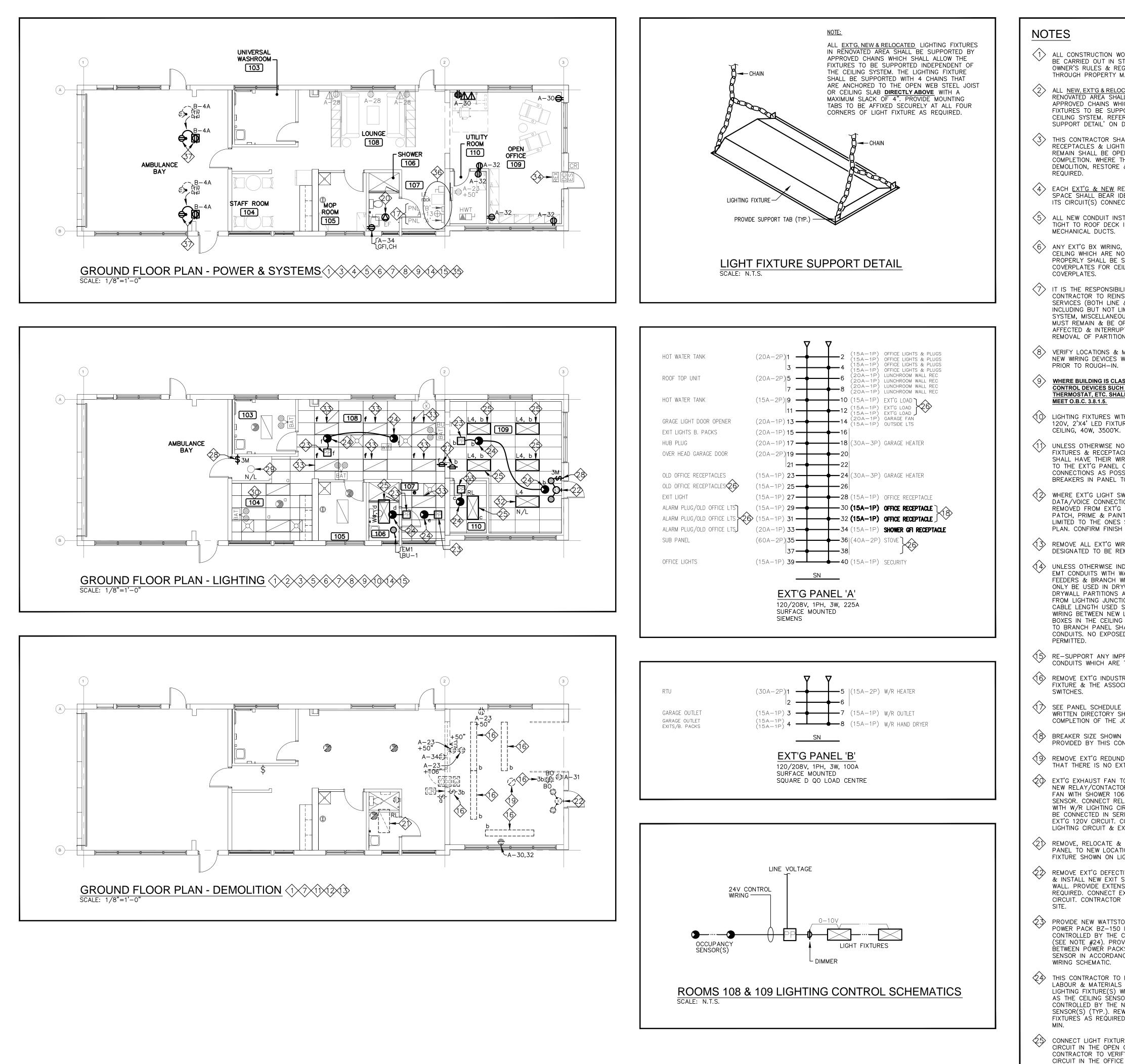
E-1

2422

RAWN BY

RAWING NO.

ΑZ



			7	
TES	~			
ALL CONSTRUCTION WORK IN THE BUILDING MUST BE CARRIED OUT IN STRICT ACCORDANCE WITH OWNER'S RULES & REGULATIONS AND BE CLEARED THROUGH PROPERTY MANAGEMENT.	26	CONTRACTOR TO VERIFY THE EXT'G BRANCH LOAD & PROVIDE THE BREAKER WITH APPROPRIATE LOAD DESCRIPTION. IF THE BRANCH WIRING IS UNUSED OR ABANDONED IDENTIFY THE BREAKER AS 'SPARE' IN PANEL SCHEDULE.		
ALL <u>NEW, EXT'G & RELOCATED</u> LIGHTING FIXTURES IN RENOVATED AREA SHALL BE SUPPORTED BY APPROVED CHAINS WHICH SHALL ALLOW THE FIXTURES TO BE SUPPORTED INDEPENDENT OF THE CEILING SYSTEM. REFER TO 'LIGHT FIXTURE SUPPORT DETAIL' ON DWG E-2.	$\langle \rangle$	EACH NEW DIMMER SHALL BE WATTSTOPPER 0—10V DIMMER, 120V, WHITE FINISH, RH4FBL3PTC. SEE DIAGRAM "ROOMS 108 & 109 LIGHTING CONTROL SCHEMATICS" ON THIS DWG FOR DETAILS.		
THIS CONTRACTOR SHALL ENSURE THAT ALL EXT'G RECEPTACLES & LIGHTING FIXTURES DESIGNATED TO REMAIN SHALL BE OPERATIONAL UPON PROJECT COMPLETION. WHERE THEY ARE INTERRUPTED BY	 \$\$ 	PROVIDE 3-WAY LIGHT SWITCHES TO CONTROL ALL THE LIGHTING FIXTURES IN OPEN AREAS 104, 107, 108 & 109, OVERRIDING ALL LOCAL SWITCHES, DIMMERS, & OCCUPANCY SENSORS.		
DEMOLITION, RESTORE & PROVIDE NEW WIRING AS REQUIRED. EACH EXT'G & NEW RECEPTACLE IN RENOVATED	Þ	REWIRE EXT'G POTLIGHT TO BE OPERATED AS NIGHT LIGHT FIXTURE (ALWAYS 'ON'). THIS FIXTURE SHALL NOT TO BE CONTROLLED BY MASTER SWITCHES '3M'.		
SPACE SHALL BEAR IDENTIFICATION DYMO TAPE OF ITS CIRCUIT(S) CONNECTED ON ITS FACEPLATE. ALL NEW CONDUIT INSTALLATION TO BE INSTALLED TIGHT TO ROOF DECK IN CEILING SPACE, ABOVE	30	IN STAFF ROOM 104, THE EXT'G 2'X4' LIGHTING FIXTURES ARE CONTROLLED BY LOCAL CEILING OCCUPANCY SENSOR 'a', BUT TO BE OVERRIDDEN BY 3-WAY SWITCHES '3M'.		
MECHANICAL DUCTS. ANY EXT'G BX WIRING, CONDUITS & BOXES IN THE CEILING WHICH ARE NOT PRESENTLY FASTENED	32	NIGHT LIGHT FIXTURE SHALL NOT TO BE CONTROLLED BY MASTER SWITCHES '3M'.		
PROPERLY SHALL BE SECURELY FASTENED. PROVIDE COVERPLATES FOR CEILING BOXES WITH MISSING COVERPLATES.	3	MODIFY EXT'G LIGHTING FIXTURE TO BE CONTROLLED BY DESIGNATED CEILING OCCUPANCY SENSOR AS SHOWN.		
IT IS THE RESPONSIBILITY OF ELECTRICAL CONTRACTOR TO REINSTATE ANY ELECTRICAL SERVICES (BOTH LINE & LOW VOLTAGE WIRING) INCLUDING BUT NOT LIMITED TO MECHANICAL SYSTEM, MISCELLANEOUS POWER SYSTEM WHICH	34>	REMOVE & REINSTALL EXT'G REQUEST-TO-EXIT SENSOR ONTO NEW FURRED OUT WALL. PROVIDE EXTENSION JUNCTION BOXES & CONDUIT AS REQUIRED.		
MUST REMAIN & BE OPERATIVE, BUT ARE AFFECTED & INTERRUPTED BY DEMOLITION SUCH AS REMOVAL OF PARTITIONS, DROPPED CEILING, ETC. VERIFY LOCATIONS & MOUNTING HEIGHTS OF ALL	35	ALLOW FOR PROVISION & INSTALLATION OF EIGHT ACUDOR 6"X6" UF-5000 FLUSH MOUNTED ACCESS DOORS FOR ACCESS TO ANY EXT'G JUNCTION BOXES BEHIND THE NEW FURRED OUT WALLS.		
NEW WIRING DEVICES WITH THE INTERIOR DESIGNER PRIOR TO ROUGH-IN.	36>	ALLOW FOR REPLACING EXT'G PAINTED PLYWOOD BACKBOARDS WITH NEW FIRE RATED PLYWOOD BACKBOARDS IF REQUIRED BY BUILDING INSPECTOR.		
WHERE BUILDING IS CLASSIFIED AS BARRIER-FREE, CONTROL DEVICES SUCH AS SWITCHES, DIMMERS, THERMOSTAT, ETC. SHALL BE INSTALLED AT HEIGHT TO MEET O.B.C. 3.8.1.5.		ALLOW FOR REMOVE & REINSTALL EXT'G POWER PANELS, I.T. RACK, PUNCH BLOCK, CABLES, CONDUITS, SECURITY DEVICES, ETC. ON THE NEW PLYWOOD BACKBOARDS. THIS WORK SHALL BE INDICATED AS <u>SEPARATE PRICE #E1</u> .		
LIGHTING FIXTURES WITHOUT TYPE DESIGNATION ARE 120V, 2'X4' LED FIXTURE, RECESSED IN T-BAR CEILING, 40W, 3500°K.	$\langle \rangle$	RELOCATE EXT'G SURFACE CEILING MOUNTED RECEPTACLE & THE ASSOCIATED CORD REEL +/-4' TOWARDS THE EAST. EXTEND & REPOUTE		Tonce Engineering Limited
UNLESS OTHERWISE NOTED, EXT'G LIGHTING FIXTURES & RECEPTACLES SHOWN TO BE REMOVED SHALL HAVE THEIR WIRING REMOVED AS FAR BACK TO THE EXT'G PANEL OR TO NEXT ACTIVE CONNECTIONS AS POSSIBLE. UNUSED CIRCUIT BREAKERS IN PANEL TO BE IDENTIFIED AS "SPARE".		RECEPTACLE POWER WIRING TO NEW LOCATION. PROVIDE ALL NECESSARY CONDUITS & JUNCTION BOX AS REQUIRED. CONFIRM WITH CLIENT AT SITE FOR EXACT LOCATION PRIOR TO RELOCATION.		Tanco Engineering Limited Consulting Engineers 80 Nashdene Road, Suite 213 Scarborough, Ontario M1V 5E4 (416) 321-3022
WHERE EXT'G LIGHT SWITCH, RECEPTACLE & DATA/VOICE CONNECTIONS ARE SHOWN TO BE REMOVED FROM EXT'G WALLS TO REMAIN, G.C. TO PATCH, PRIME & PAINT ALL THE HOLES BUT NOT LIMITED TO THE ONES SHOWN ON THIS FLOOR PLAN. CONFIRM FINISH WITH INTERIOR DESIGNER.				No. Date Issued or Revised
REMOVE ALL EXT'G WIRING & CONDUITS IN WALLS DESIGNATED TO BE REMOVED.				
UNLESS OTHERWISE INDICATED, WIRES SHALL BE IN EMT CONDUITS WITH WATERTIGHT COUPLINGS FOR FEEDERS & BRANCH WIRING. AC90 CABLE SHALL ONLY BE USED IN DRYWALL CEILING, WITHIN DRYWALL PARTITIONS AND FOR FIXTURE DROPS FROM LIGHTING JUNCTION BOXES. MAXIMUM AC-90 CABLE LENGTH USED SHALL NOT EXCEED 15'. WIRING BETWEEN NEW LIGHTING/POWER JUNCTION BOXES IN THE CEILING & INCLUDING ALL HOME RUN TO BRANCH PANEL SHALL BE STRICTLY IN EMT CONDUITS. NO EXPOSED AC-90 WIRING SHALL BE PERMITTED.				Dec 4, 2024 Issued for Tender Nov 29, 2024 Issued for Permit
RE-SUPPORT ANY IMPROPERLY SUPPORTED EXT'G CONDUITS WHICH ARE TO REMAIN.				
REMOVE EXT'G INDUSTRIAL FLUORESCENT LIGHTING FIXTURE & THE ASSOCIATED 3-WAY LIGHT SWITCHES.				
SEE PANEL SCHEDULE DETAIL. PROVIDE TYPED WRITTEN DIRECTORY SHOWING REVISED LOADS UPON COMPLETION OF THE JOB.				
BREAKER SIZE SHOWN BOLD ARE NEW TO BE PROVIDED BY THIS CONTRACTOR (TYP).				
REMOVE EXT'G REDUNDANT HEAT DETECTOR. NOTE THAT THERE IS NO EXT'G FIRE ALARM PANEL.				STAMP
EXT'G EXHAUST FAN TO BE REUSED. PROVIDE A NEW RELAY/CONTACTOR TO INTERLOCK EXHAUST FAN WITH SHOWER 106 CEILING OCCUPANCY SENSOR. CONNECT RELAY WITH ITS COIL IN SERIES WITH W/R LIGHTING CIRCUIT. RELAY CONTACT TO BE CONNECTED IN SERIES WITH EXHAUST FAN EXT'G 120V CIRCUIT. CONTRACTOR TO VERIFY EXT'G LIGHTING CIRCUIT & EXHAUST FAN CIRCUIT AT SITE.				C. W. M. CHONG 5 90414772 NOV 29/24
REMOVE, RELOCATE & REINSTALL EXT'G 2'X4' LED PANEL TO NEW LOCATION AS TYPE 'RL' LIGHT FIXTURE SHOWN ON LIGHTING LAYOUT.				OLINICE OF ON THE
REMOVE EXT'G DEFECTIVE SELF-POWERED EXIT SIGN & INSTALL NEW EXIT SIGN ON NEW FURRED OUT WALL. PROVIDE EXTENSION JUNCTION BOXES AS REQUIRED. CONNECT EXIT SIGN TO ITS EXT'G CIRCUIT. CONTRACTOR TO VERIFY EXT'G CIRCUIT AT SITE.				
PROVIDE NEW WATTSTOPPER UNIVERSAL VOLTAGE POWER PACK BZ-150 IN PLENUM SPACE TO BE CONTROLLED BY THE CEILING OCCUPANCY SENSOR (SEE NOTE #24). PROVIDE CLASS 2 WIRING BETWEEN POWER PACKS & CEILING OCCUPANCY SENSOR IN ACCORDANCE WITH MANUFACTURER'S WIRING SCHEMATIC.				330 BERING AVENUE ETOBICOKE, ON drawing title
THIS CONTRACTOR TO PROVIDE ALL NECESSARY LABOUR & MATERIALS TO ENABLE ALL THE LIGHTING FIXTURE(S) WITH THE SAME DESIGNATION AS THE CEILING SENSOR(S) IN THIS AREA TO BE CONTROLLED BY THE NEW OCCUPANCY CEILING SENSOR(S) (TYP.). REWIRE ALL EXT'G LIGHT FIXTURES AS REQUIRED. SET TIME DELAY AT 30 MIN.				GROUND FLOOR PLANS - ELECTRICAL
CONNECT LIGHT FIXTURE TO THE EXT'G LIGHTING CIRCUIT IN THE OPEN OFFICE AREA 108. CONTRACTOR TO VERIFY THE EXT'G LIGHTING CIRCUIT IN THE OFFICE OFFICE AREA 108 AT SITE PRIOR TO ROUGH-IN.				SCALE DATE AS NOTED DATE OCT, 2022 DRAWN BY PROJECT NO. AZ 2422
				DRAWING NO. E-2