			LEGENDU	OF ELECTRICAL SYMI	5013		
	LIGHTING		MECHANICAL		COMMUNICATION SYSTEMS		FIRE ALARM
Ø	RECESSED LED / INCANDESCENT / COMPACT FLUORESCENT LUMINAIRE	$\sim$	MOTOR	$\Box$	VOICE OUTLET	€ A A	SMOKE ALARM
¤	SURFACE LED / INCANDESCENT / COMPACT FLUORESCENT LUMINAIRE	$\otimes$	THREE-PHASE MOTOR	$\Box$	DATA OUTLET	AC	SMOKE ALARM/CARBON MONOXIDE ALARM
р	WALL LED / INCANDESCENT / COMPACT FLUORESCENT LUMINAIRE	6	MOTOR C/W DISCONNECT SWITCH	$\square$	COMBINATION VOICE/DATA OUTLET	AC	SMOKE ALARMICARBON MONOXIDE ALARM C/W STROBE
Ø	LED / INCANDESCENT / COMPACT FLUORESCENT WALL WASHER	нÓ	MOTOR C/W MANUAL STARTER	$\square$	TELEVISION OUTLET		SMOKE DETECTOR
X	RECESSED LED / INCANDESCENT / COMPACT FLUORESCENT LUMINARE ON EMERGENCY POWER		UNFUSED DISCONNECT SWITCH	$\square$	COMBINATION VOICE/TELEVISION OUTLET		SMOKE DETECTOR IN CEILING PLENUM
×	SURFACE LED / INCANDESCENT / COMPACT FLUORESCENT LUMINAIRE ON EMERGENCY POWER		FUSED DISCONNECT SWITCH		FLOOR MOUNTED VOICE OUTLET		SMOKE DETECTOR UNDER FLOOR
¥	WALL LED / INCANDESCENT / COMPACT FLUORESCENT LUMINAIRE ON EMERGENCY POWER		COMBINATION MAGNETIC STARTER/DISCONNECT SWITCH		FLOOR MOUNTED DATA OUTLET		RATE OF RISE HEAT DETECTOR
_	RECESSED FLUORESCENT LUMINAIRE		MAGNETIC STARTER		FLOOR MOUNTED COMBINATION VOICE/DATA OUTLET	200	FIXED HIGH TEMPERATURE 200°F HEAT DETECTOR (88°C)
	SURFACE FLUORESCENT LUMINAIRE	S	FAN SPEED CONTROLLER		FLOOR MOUNTED TELEVISION OUTLET		FIXED HIGH TEMPERATURE 135°F HEAT DETECTOR (58°C)
	WALL FLUORESCENT LUMINAIRE		THERMOSTAT		CEILING MOUNTED DATA OUTLET		DUCT SMOKE DETECTOR - 'SA' DENOTES SUPPLY AIR, 'RA' DENOTES RETURN AIR
	WALL FLUORESCENT LUMINAIRE ON EMERGENCY POWER	(SE)	SENSOR		CEILING MOUNTED TELEVISION OUTLET		DUCT SMOKE DETECTOR C/M SHUTDOWN RELAY
	FLUORESCENT STRIP LUMINAIRE		MOTOR IDENTIFICATION TAG (REFER TO MECHANICAL SCHEDULE)		MICROPHONE OUTLET	PS	FIRE ALARM PULL STATION
	FLUORESCENT STRIP LUMINAIRE		BASEBOARD HEATER	(P)	PA SPEAKER - CEILING MOUNTED		SPRINKLER FLOW SWITCH
]	RECESSED FLUORESCENT LUMINAIRE ON EMERGENCY POWER		POWER	(P)	PA SPEAKER - WALL MOUNTED	TÎ	SPRINKLER TAMPER SWITCH
	SURFACE FLUORESCENT LUMINAIRE ON EMERGENCY POWER	Φ	SINGLE/SPECIAL PURPOSE RECEPTACLE		VOLUME CONTROLLER		SPRINKLER PRESSURE SWITCH
	TRACK LIGHTING C/W LIGHTING HEADS AS SHOWN	φ	DUPLEX RECEPTACLE		CHIME	(ŷa	SPRINKLER SUPERVISED VALVE
<u>×_×</u>	POLE MOUNTED LUMINAIRE	- U	ISOLATED GROUND RECEPTACLE		CLOCK - CEILING MOUNTED		END OF LINE RESISTOR
/-~			GROUND FAULT RECEPTACLE		CLOCK - WALL MOUNTED		FIRE ALARM BELL
8 				¥	PAC-POLE	FO	
		<b>↔</b>				F	FIRE ALARM COMBINATION BELL AND STROBE
$\underline{\bigotimes}$	EXIT LIGHT - CEILING (C/W ARROWS AS INDICATED)	Ф н	20A T-SLOT RECEPTACLE	₩₽	WATER DETECTOR		FIRE ALARM HORN
<u>×</u>	EXIT LIGHT - WALL (C/W ARROWS AS INDICATED)	<b>⊕</b>	FOURPLEX RECEPTACLE		GROUND BAR	F∢	FIRE ALARM COMBINATION HORN AND STROBE
	EMERGENCY POWER BATTERY PACK	<b>*</b>	ISOLATED GROUND FOURPLEX RECEPTACLE		BACKBOARD		FIRE ALARM MINI HORN/STROBE WITH SILENCE BUTTON
	EMERGENCY POWER BATTERY PACK C/W LIGHTING HEADS	$\bigcirc$	COMPUTER DUPLEX RECEPTACLE (FED W/ DEDICATED NEUTRAL)				FIRE ALARM MINI HORN WITH SILENCE BUTTON
	EMERGENCY POWER BATTERY PACK C/W R. HEADS & EXIT LIGHT		COMPUTER FOURPLEX RECEPTACLE (FED W/ DEDICATED NEUTRAL)		SECURITY SYSTEMS	F)	FIRE ALARM STROBE
2	SINGLE REMOTE EMERGENCY LIGHTING HEAD - CEILING MOUNT	Φ	FLOOR MOUNTED RECEPTACLE	S	SECURITY HORN		FIRE ALARM MINI SPEAKER WITH SILENCE BUTTON
42	DOUBLE REMOTE EMERGENCY LIGHTING HEAD - CEILING MOUNT	₽	FLOOR MOUNTED ISOLATED GROUND RECEPTACLE	6	PUSH BUTTON	F	FIRE ALARM SPEAKER - CEILING MOUNTED
4	SINGLE REMOTE EMERGENCY LIGHTING HEAD - WALL MOUNT	₩	FLOOR MOUNTED FOURPLEX ISOLATED GROUND RECEPTACLE		MAGNETIC DOOR HOLD OPEN	F	FIRE ALARM COMBINATION SPEAKER/STROBE - CEILING MOUNTED
42	DOUBLE REMOTE EMERGENCY LIGHTING HEAD - WALL MOUNT	₫⊅	FLOOR MOUNTED COMPUTER DUPLEX RECEPTACLE W/DEDICATED NEUTRAL		MAGNETIC LOCK	н́Е	FIRE ALARM SPEAKER - WALL MOUNTED
555	SWITCH - SINGLE, TWO, AND THREE GANG	$\bigcirc$	CEILING MOUNTED SINGLE/SPECIAL PURPOSE RECEPTACLE	[ES]	ELECTRIC STRIKE	H F J	FIRE ALARM COMBINATION SPEAKER/STROBE - WALL MOUNTED
\$ <sup>2</sup>	2 POLE SWITCH	$\bigcirc$	CEILING MOUNTED DUPLEX RECEPTACLE		DOOR POSITION SWITCH	F	FIRE PHONE
${\mathbb F}^3$	SWITCH - 3 WAY	0	CEILING MOUNTED JUNCTION/SLAB BOX	REX	REQUEST TO EXIT SENSOR	IM	ISOLATION MODULE
(	SWITCH - LOW VOLTAGE		FLOOR MOUNTED JUNCTION/SLAB BOX	(MS)	SECURITY MOTION SENSOR		SUITE AUDIBLE ISOLATOR
\$	SWITCH - KEY SWITCH	Ы	WALL MOUNTED JUNCTION BOX	CR	CARD READER	СМ	CONTROL MODULE
5	SWITCH - MANUAL STARTER		ELECTRICAL PANELBOARD - SURFACE MOUNTED	V	2-WAY VOICE/PANIC	ММ	MONITORING MODULE
\$	SWITCH - DIMMER SWITCH		ELECTRICAL PANELBOARD - RECESSED	I I I I I I I I I I I I I I I I I I I	INTERCOM		GENERAL
\$	SWITCH - OCCUPANCY SENSOR SWITCH	С	CONTACTOR	S	SECURITY STROBE		CONDUIT CONCEALED IN WALL OR CEILING
\$°	SWITCH C/W PILOT LIGHT - SINGLE GANG	₽	CAR PLUG POST		CCTV CAMERA		CONDUIT CONCEALED IN SLAB OR RUN UNDERGROUND
\$	SWITCH - TIMER SWITCH	тс	TIME CLOCK	G	GLASS BREAKAGE SENSOR		CONDUIT UP
P	PHOTO ELECTRIC CELL		SINGLE PHASE DIRECT CONNECTION	К	KEYPAD	•	CONDUIT DOWN
05	OCCUPANCY SENSOR - CEILING MOUNTED		THREE PHASE DIRECT CONNECTION		INTERCOM		CONDUIT STUB
<u>(</u> )	DAYLIGHT HARVESTING LIGHT SENSOR	0-60	DROP CORD	[RM]	RELAY MODULE		CONDUIT CONTINUATION
	ON / OFF ROOM CONTROLLER					WP	DENOTES WEATHERPROOF DEVICE
[DM]	0-10V DIMMING CONTROLLER					NL	DENOTES UNSWITCHED LUMINAIRE (NIGHT LIGHT)
(PP)	LIGHTING CONTROL POWER PACK					R	DENOTES DEVICE TO REMOVE OR RELOCATE
V <sup>T</sup>						RL	DENOTES RELOCATED DEVICE
							DENOTES FURNITURE MOUNTED DEVICE
						E	DENOTES EXISTING TO REMAIN
						(NO.)	CO./NO. DETECTOR IN PARKING AREA

# **ELECTRICAL - GENERAL NOTES:**

26 00 00 GENERAL ELECTRICAL

- THE ELECTRICAL SPECIFICATION FORMS PART OF THE CONTRACT DOCUMENTS AND IS TO BE READ, INTERPRETED AND COORDINATED WITH ALL OTHER PARTS AND DIVISIONS. THE WORD "PROVIDE" SHALL BE TAKEN TO MEAN SUPPLY, INSTALL, TEST AND COMMISSION
- REGULATORY REQUIREMENTS:
- 3.1 COMPLY WITH ALL REQUIREMENTS OF THE CURRENT BUILDING CODE AND OF THE ONTARIO ELECTRICAL SAFETY CODE (CURRENT EDITION) INCLUDING ALL APPLICABLE AMENDMENTS OR RULES REGULATING THE INSTALLATION OF ELECTRICAL EQUIPMENT. IN NO INSTANCES, HOWEVER, SHALL THE STANDARDS ESTABLISHED BY CONTRACT DOCUMENTS BE REDUCED BY ANY OF THESE CODES OR REGULATIONS
- 3.2 WHERE REQUIRED BY REGULATIONS, BEFORE STARTING WORK SUBMIT THE APPROPRIATE QUANTITY OF PLANS AND SPECIFICATIONS TO THE ELECTRICAL INSPECTION DEPARTMENT AND OBTAIN ALL NECESSARY PERMITS. INCLUDE ALL COSTS OF PLAN APPROVALS AND ALL PERMIT FEES IN THIS TENDER.
- 3.3 ARRANGE FOR INSPECTION (AS WELL AS ATTENDANCE DURING VERIFICATION) OF THE WORK BY ALL APPLICABLE AUTHORITIES HAVING JURISDICTION. INCLUDE ALL INSPECTION COSTS IN THE TENDER PRICE. 3.4
- UPON COMPLETION OF AND BEFORE FINAL PAYMENT WILL BE MADE, PRESENT TO THE CONSULTANT A CERTIFICATE OF UNCONDITIONAL APPROVAL FOR ALL ELECTRICAL WORK FROM THE ELECTRICAL INSPECTION DEPARTMENT AND OTHER AUTHORITIES HAVING JURISDICTION. RESPONSIBILITY
- 4.1
- SUPPLY ALL LABOUR, MATERIALS, EQUIPMENT, TOOLS AND INCIDENTALS NECESSARY TO PROVIDE A COMPLETE ELECTRICAL INSTALLATION AS INDICATED ON THE DRAWINGS AND AS SET OUT IN THESE SPECIFICATIONS. COORDINATE ALL ELECTRICAL WORK WITH THE WORK OF OTHER TRADES AND PROVIDE THE NECESSARY CONNECTIONS TO ENERGIZE ALL ITEMS OF EQUIPMENT PROVIDED BY OTHER TRADES. 4.2
- EXISTING CONDITIONS AND DEMOLITION
- SUBMISSION OF A TENDER FOR THIS WORK SHALL BE TAKEN THAT THE CONTRACTOR HAS MADE A THOROUGH EXAMINATION OF THE SITE AND EXISTING 5.1
- CONDITIONS. EXAMINE DRAWINGS OF ALL OTHER TRADES AND ALLOW FOR ALL WORK SUCH AS 5.2 THE REMOVAL AND RE-INSTALLATION OF ELECTRICAL LUMINAIRES, EQUIPMENT DEVICES, WIRING, RACEWAYS, ETC. WHERE SUCH WORK IS REQUIRED DUE TO ALTERNATIONS IN OR ABOUT THE EXISTING BUILDING. REMOVE ALL SURPLUS CONDUITS, WIRING, LUMINAIRES, AND DEVICES IN RENOVATED AREAS. BLANK OFF OR REMOVE ALL UNUSED OUTLET BOXES.
- REMOVE ALL ELECTRICAL DEVICES AS INDICATED ON THE DEMOLITION PLANS. 5.3 ALL OTHER EXISTING ELECTRICAL DEVICES ARE TO REMAIN. 5.4 ALL SURPLUS ELECTRICAL EQUIPMENT, DEVICES, AND LUMINAIRES SHALL BI CONSIDERED THE OWNER'S PROPERTY UNLESS OTHERWISE NOTED. DURING DEMOLITION DETERMINE FROM THE OWNER WHICH MATERIALS THEY WISH T
- TRANSPORT AND STORE SUCH ITEMS AT A LOCATION ON SITE AS DIRECTED BY THE OWNER. ALL OTHER SURPLUS ELECTRICAL EQUIPMENT, DEVICES AND UMINAIRES SHALL BE REMOVED FROM THE SITE. REQUEST FOR A SIGNED RECEIPT FOR SURPLUS MATERIAL TURNED OVER TO THE OWNER AND SUBMIT COPY OF RECEIPT TO THE CONSULTANT. PERMIT NO INTERRUPTIONS TO THE ELECTRIC POWER. FIRE ALARM. 5.5
- COMMUNICATIONS, OR OTHER SIMILAR SERVICES IN THE EXISTING BUILDING DURING NORMAL WORKING HOURS. ADVISE THE OWNER AND/OR TENANT IN WRITING OF ANY INTENDED INTERRUPTIONS OUTSIDE OF THESE NORMAL HOURS. INCLUDE TIME AND DURATION OF OUTAGE AND OBTAIN THE OWNER'S AND/OR TENANT'S PERMISSION PRIOR TO SCHEDULED INTERRUPTIONS. THE OWNER OR TENANT MAY CANCEL SUCH INTERRUPTIONS IN EMERGENCIES AT THE LAST MINUTES WITHOUT PENALTY OR EXTRA COST.
- 5.6 ASSUME FULL RESPONSIBILITY FOR ANY DISRUPTION TO EXISTING SERVICES AND SYSTEMS. SHOULD ANY TEMPORARY CONNECTIONS BE REQUIRED TO MAINTAIN SERVICES DURING WORK IN THE EXISTING BUILDING, SUPPLY AND INSTALL ALL NECESSARY MATERIAL AND EQUIPMENT AND PROVIDE ALL LABOUR AT NO EXTRA COST. INCLUDE IN THE TENDER PRICE FOR REMOVAL OF SUCH TEMPORARY ONNECTIONS AT COMPLETION OF THE WORK. BASIC MATERIALS
- ALL MATERIALS SUPPLIES SHALL BE NEW, OF THE QUANTITIES INDICATED AND BE 6.1 BEST COMMERCIAL QUALITY OBTAINABLE FOR THE PURPOSE.

## 7 APPROVALS

- 7.1 APPROVAL WILL BE REVIEWED ONLY DURING THE PRICING PERIOD. ALL SUBMISSIONS SHALL INCLUDE THE FOLLOWING INFORMATION: NAME AND IDENTIFICATION OF SPECIFIED ITEM, MANUFACTURER, BRAND NAME AND CATALOGUE NUMBER OF THE ALTERNATIVE ITEM PROPOSED AND DETAILED TECHNICAL INFORMATION AND CHARACTERISTICS OF THE ALTERNATE ITEM. SHOP DRAWINGS
- SUBMIT SHOP DRAWINGS FOR ALL EQUIPMENT SPECIFIED ON THE DRAWINGS OR 8.1 IN THE SPECIFICATIONS. ALL SHOW DRAWINGS SHALL CLEARLY INDICATE THE PROJECT NAME AND SHALL BEAR THE NAME OR IDENTIFICATION OF EACH PIECE OF EQUIPMENT. CONTRACTOR SHALL REVIEW THE SHOP DRAWINGS AND AFFIX IEW STAMP PRIOR TO SUBMISSION
- 8.2 REVIEW OF THE SHOP DRAWINGS DOES NOT INFER ANY COMMENTS ON QUANTITIES LISTED ON THE DRAWINGS. 8.3 SUBMIT SHOP DRAWINGS FOR ALL LUMINAIRES, EMERGENCY BATTERIES UNITS AND REMOTE HEADS AND EXIT SIGNS.
- AS-BUILT DRAWINGS
- MAINTAIN IN THE JOB SITE OFFICE, IN AN UP-TO-DATE CONDITION (1) COMPLETE SET OF THE ELECTRICAL CONTRACT DRAWINGS INCLUDING REVISION DRAWINGS MARKED CLEARLY AND INDELIBLY IN RED. INDICATING "AS-BUILT" CONDITIONS WHERE SUCH CONDITIONS DEVIATE FROM THE ORIGINAL DIRECTIONS OF THE
- CONTRACT DOCUMENTS AND INDICATING FINAL INSTALLATION OF DEVICES AND BRANCH CIRCUITS 9.2 SUCH MARKINGS SHALL INCLUDE BUT SHALL NOT BE LIMITED TO THE FOLLOWING:
  - ALL CHANGES IN CIRCUITING ROUTING OF CONDUITS NUMBER AND AWG OF CONDUCTORS (#10 AWG AND LARGER) IN
  - RACEWAYS AND CABLES LOCATION OF JUNCTION BOXES AND PULLBOXES
  - OCATION OF ACCESS PANELS LOCATION OF ALL CONDUIT, INSTALLED EQUIPMENT, DEVICES AND XTURES
  - ALL CHANGES TO ELECTRICAL INSTALLATION RESULTING FROM • ADDENDA, CHANGE ORDERS, FIELD INSTRUCTIONS AND CONTRACTORS
  - EXACT LOCATION OF ALL SERVICES LEFT FOR FUTURE WORK
- 10 WALL, CEILING AND FLOOR PENETRATIONS
- 10.1 ANY AND ALL PENETRATIONS THROUGH WALLS, CEILINGS, AND FLOORS (FIRE SMOKE, SOUND AS WELL AS ALL OTHER PENETRATIONS) MUST BE SEALED AFTER THE INSTALLATION OF ALL WIRING AND RACEWAYS TO MAINTAIN THE INTEGRITY OF THE SEPARATIONS IN A MANNER APPROVED BY THE CONSULTANT AND AUTHORITIES HAVING JURISDICTION. USE SEALING MATERIAL AS MANUFACTURED BY FIRE STOP SYSTEMS, 3M FIRE BARRIER SYSTEM AND APPROVED EQUAL. 10.2 PATCHING NEW STRUCTURES SHALL BE FINISHED TO MATCH THEIR ORIGINAL
- FINISH OR INTENDED FINISH. SEAL ALL SLOTS, CORE HOLES ETC. NOT BEING
- 10.3 ALL HOLES REQUIRED THROUGH STRUCTURAL STEEL FABRICATIONS AND REINFORCING SHALL BE CARRIED OUT BY AUTHORIZED PERSONNEL AS APPROVED BY THE CONSULTANT AND STRUCTURAL ENGINEER TO THEIR COMPLETE SATISFACTION AND SHALL BE PAID FOR BY THE ELECTRICAL
- CONTRACTOR 10.4 CONTRACTOR SHALL BE RESPONSIBLE TO X-RAY ALL PENETRATIONS PRIOR TO CORING.
- 11 IDENTIFICATION
- 11.1 IDENTIFY ALL PIECES OF ELECTRICAL EQUIPMENT (INCLUDING EACH AND EVERY RECEPTACLE) OTHER THAN CONDUITS AND CONDUCTORS WITH ENGRAVED LAMINATED PLASTIC NAMEPLATES OR BROTHER P-TOUCH LABELS HAVING 3mm MINIMUM HEIGHT. BLACK CHARACTERS ON WHITE BACKGROUND FOR NORMAL POWER. ATTACH AL LAMACOID LABELS, UNLESS OTHERWISE DIRECTED, WITH SILICONE CEMENT.
- 11.2 ALL JUNCTION AND PULLBOXES FOR CONDUITS, DUCTS AND OTHER RACEWAYS IN CONCEALED CEILING AND FLOOR SPACES SHALL PERMANENTLY MARKED USING A BLACK FELT PEN AS FOLLOWS: (WHERE CEILING SPACE IS PAINTED OUT, PUT MARKING ON THE INSIDE OF COVERPLATES FOR LIGHTING AND POWER SHOW THE COMPLETE CIRCUIT NUMBER OF
  - ALL ENCLOSED CIRCUITS. FOR ALL COMMUNICATIONS AND FIRE ALARM SHOW THE USAGE (I.E. "FIRE ALARM"; "TELEPHONE").

- 14

17.1

18.

18.1

22.

#### 12. MOUNTING HEIGHTS

#### 12.1 IN AREAS WHERE THERE ARE NO CONFLICT WITH OTHER TRADES, MOUNTING HEIGHTS SPECIFIED HEREIN SHALL BE USED. MOUNTING ARE FROM FINISHED FLOOR LEVEL TO CENTRE LINE OF DEVICE OUTLET, UNLESS NOTED OTHERWISE.

- WALL RECEPTACLES: 300mm TELEPHONE OUTLETS: 300mm
- HERMOSTATS: 1520mm FIRE ALARM BELLS: 2300mm
- FIRE ALARM MANUAL PULL STATION: 1200mm END OF LINE RESISTOR: 1830mm
- LOCAL BRANCH CIRCUIT LIGHTING SWITCHES: 1200mm LIGHTING AND POWER PANELS: 1800mm FROM FLOOR TO TOP OF PANEL

# 26 05 19 BUILDING WIRE AND CABLE

- 13. UNLESS OTHERWISE DIRECTED, BUILDING WIRE AND CABLE SHALL BE OF COPPER CONDUCTORS.
- USE NO WIRE NO SMALLER THAN #12AWG UNLESS OTHERWISE DIRECTED. EXCEPT WHERE OTHERWISE DIRECTED OR REQUIRED BY CODE OR OTHER
- APPLICABLE REGULATIONS BUILDING WIRE AND CABLE INSULATION SHALL BE YPE RW90, CROSS-LINK POLYETHYLENE INSULATED FOR 600V AND RATED NOT
- LESS THAN 90 DEG. C. ALL INTERIOR BRANCH CIRCUIT WIRING SHALL USE ELECTRICAL METALLIC TUBING (EMT). EXTERIOR INSTALLATIONS SHALL BE GALVANIZED RIGID STEEL OR RIGID
- ALL FIRE ALARM CABLING SHALL BE RUN IN EMT CONDUIT. ARMOURED CABLE MAY BE USED FOR THE FOLLOWING:
- DROPS TO INDIVIDUAL LUMINAIRES AND SHALL MAXIMUM LENGTH OF 1.5m. DAISY HAINING OF LUMINAIRES NOT ALLOWED.
- 17.2 FINAL CONNECTIONS TO TRANSFORMERS, MOTORS, AND OTHER VIBRATING FOUIPMENT CONDUCTORS FOR LIGHTING AND OTHER BRANCH CIRCUITS SHALL HAVE AMPACITY NOT LESS THAN THE RATING OF THE OVERCURRENT DEVICE
  - OTECTING THE BRANCH CIRCUIT AND SHALL BE SIZED FOR A MAXIMU VOLTAGE DROP OF 3% FROM THE PANELBOARD TO THE LAST OUTLET OF THE CIRCUIT. THE LENGTH OF THE BRANCH CIRCUIT TO BE USED IN THE DETERMINATION OF THE REQUIRED WIRE SIZE SHALL BE THE TOTAL DISTANCE ROM THE ASSOCIATED PANELBOARD TO THE LAST DEVICE IN THE CIRCUIT. IN NO
- CASE SHALL THE WIRE SIZES BE LESS THAN THAT INDICATED BELOW: 120V, 1PHASE, 15A CIRCUIT 0 – 25m: #12AWG MIN. 25 – 40m: #10AWG MIN
- OVER 40m: #8AWG MIN. 18.2 120V, 1PHASE, 20A CIRCUIT 0 – 20m: #12AWG MIN.
- 20 30m: #10AWG MIN OVER 30m: #8 AWG MIN.

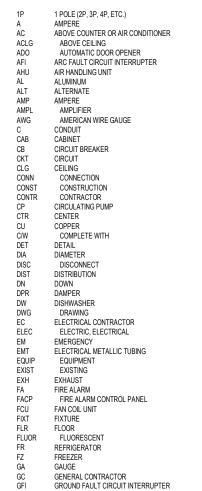
26 05 26 GROUNDING AND BONDING

- SUPPLY AND INSTALL AL GROUNDING TO CONFIRM WITH THE ONTARIO ELECTRICAL SAFETY CODE AND INSTRUCTION OF THE INSPECTION AUTHORITY VITH FURTHER REQUIREMENTS AS NOTED HEREIN OR ON DRAWINGS.
- PROVIDE SEPARATE AND PROPERLY SIZE GROUND WIRE AND FITTINGS FOR ALL LEXIBLE CONDUIT CONNECTIONS. EACH RECEPTACLE AND LIGHTING SWITCH SHALL HAVE A GROUNDING
- CONDUCTOR INSTALLED BETWEEN ITS GROUNDED OUTLET BOX AND THE GROUNDING TERMINAL ON THE RECEPTACLE PROVIDE INDIVIDUAL #6 AWG GROUNDING CONNECTIONS TO ALL
- COMMUNICATIONS EQUIPMENT AND COMMUNICATION RACKS AND/OR CABINETS.

#### 26 05 29 ELECTRICAL SUPPORTING DEVICES 23

ALL DEVICES, OUTLET BOXES AND RACEWAYS SHALL BE SOLIDLY FASTENED TO BUILDING IN A SECURE AND SOLID MANNER. RACEWAYS NOT EXPOSED TO VIEW SHALL BE FASTENED TO BUILDING STRUCTURE.

# **ELECTRICAL ABBREVIATIONS LIST**



HEAT RECOVERY VENTILATION SPECIFICATION HEATING HEATER SPKF SPEAKER SPARE HVAC HEATING, VENTILATING AND SURFACE RACEWAY SURFACE RACEWAT STOP/START PUSHBUTTONS STATION STANDARD SUMP PUMP AIR CONDITIONING HYDRONIC WATER PUMP JUNCTION BOX LOCATE OR LOCATION SURF SW SURFACE MOUNTED SWITCH LIGHTING MAXIMUM SWITCHBOARD SWBD SYM SYMMETRICAL MECHANICAL CONTRACTOR MICROWAVE SYS SYSTEM TEUDATA TELEPHONE/DATA MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER TERMINAL TAMPER RESISTANT TERM T-STAT THERMOSTAT MAIN DISTRIBUTION PANE TYPICAL MDP UNDER COUNTER MECHANICAL CONTRACTOR UNIT HEATER UTILITY MANUFACTURER MINIMUM MISCELLANEOUS MAIN LUGS ONLY VOL I VERTICAL VOLUME WATT VER MOUNT EMPTY CONDUIT MOUNTED COORDINATED IN MILLWORK WITH NATIONAL ELECTRICAL CODE WIRE GUARD NATIONAL ELECTRICAL MANUFACTURER'S WATER HEATER WITHOUT ASSOCIATION NOT IN CONTRACT NIGHT LIGHT NOT TO SCALE WASHER ANGLE OVERHEAD OVERLOADS PULL BOX OR PUSHBUTTON DELTA PHASE PANEL INCHES NUMBER PHASE CENTER LINE PLATE POWER POLE PAIR/PRINTER PAIR/PRINTER POLYVINVL CHLORIDE (CONDUIT) POWER QUANTITY RELOCATE(D) RECEPTACLE REQUIRED DOM QUAN RCPT REQD ROOM RIGID METAL CONDUIT ROOF TOP UNIT SURFACE CONDUIT SECONDARY SERVICE ENTRANCE RATED SHEET

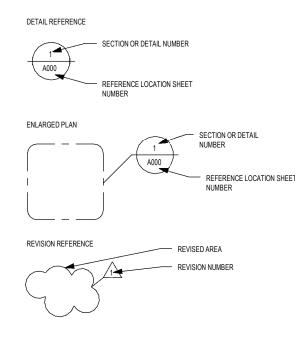
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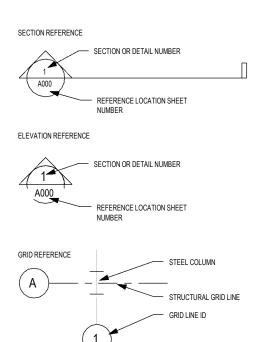
## DRAWING REFERENCE SYMBOLS:

GROUND

GYPSUM BOARD

GYP BD





#### 26 05 33 CONDUITS

- 24. ALL INTERIOR BRANCH CIRCUIT WIRING SHALL BE IN ELECTRICAL METALLIC TUBING (EMT). ALL FEEDERS SHALL BE IN RIGID GALVANIZED STEEL.
- CUT CONDUIT SQUARE USING A SAW OR PIPE CUTTER; DEBURR CUT ENDS.
- BOXES AND FOR FASTENING CONDUITS TO SHEET METAL BOXES IN DAMP OR WET I OCATIONS USE 90 DEG BENDS TO MAKE CHANGES IN DIRECTION. CONDUIT BODIES ARE NOT 28.
- TO BE USE 29.
- AVOID MOISTURE TRAPS WHERE POSSIBLE; WHERE UNAVOIDABLE, PROVIDE JUNCTION BOX WITH DRAIN FITTING AT CONDUIT LOW POINT.
- USE SUITABLE CONDUIT CAPS TO PROTECT INSTALLED CONDUIT AGAINST ENTRANCE OF DIRT AND MOISTURE.
- PROVIDE #12 AWG INSULATED CONDUCTOR OR SUITABLE PULL STRING IN EMPTY 31 CONDUITS, EXCEPT SLEEVES AND NIPPLES. 32. INSTALL EXPANSION DEFLECTION JOINTS WHERE CONDUIT CROSSES BUILDING
- EXPANSION JOINTS. CONCEAL CONDUITS IN ALL AREAS EXCEPT IN MECHANICAL AND ELECTRICAL
- 33. ROOMS 34. ALL CONDUITS SHALL BE INSTALLED PARALLEL TO BUILDING LINES AND BE
- SOLIDLY SUPPORTED FROM BUILDING STRUCTURE (I.E. SUPPORT FROM DUCTWORK, CEILING SYSTEM, ETC. IS NOT PERMITTED).

# 26 05 34 BOXES

- 35. UNLESS OTHERWISE NOTED OR SPECIFIED HEREIN, INSTALL ALL OUTLETS FLUSH WITH FINISHED WALLS. 36. UNLESS OTHERWISE DIRECTED, ALL OUTLET BOXES SHALL BE ONE-PIECE
- FORMED, GALVANIZED, CODE GAUGE STEEL. PLASTIC OR PVC TYPE BOXES ARE NOT ACCEPTABLE 37. COORDINATE WORK CAREFULLY WITH OTHER TRADES TO PROVIDE EASY ACCESS
- TO ALL JUNCTION AND PULL BOXES. 38. ALL OUTLET, JUNCTION AND PULLBOXES SHALL BE COMPLETE WITH COVER.
- 26 24 16 BRANCH CIRCUIT PANELBOARDS
- 39. ACCEPTABLE MANUFACTURERS: 39.1 SIEMENS.
- 39.2 SCHNEIDER/SQUARE D, 39.3 EATON.
- 39.4 SUBSTITUTIONS: NOT PERMITTED 40. CSA C22.2 NO.29 CIRCUIT BREAKER TYPE, LIGHTING AND APPLIANCE BRANCH CIRCUIT PANELBOARD.
- 41. PANELBOARD BUS: COPPER WITH RATINGS. PROVIDE COPPER GROUND BUS IN PANELBOARD. MINIMUM INTEGRATED SHORT CIRCUIT RATINGS AS INDICATED ON THE ELECTRICAL SINGLE LINE DIAGRAM. RATINGS SHALL BE BASED ON A FULLY RATED SYSTEM.
- 42. MOULDED CASE CIRCUIT BREAKERS: NEMA AB I, BOLT-ON TYPE, THERMAL MAGNETIC TRIP CIRCUIT BREAKER, WITH COMMON TRIP HANDLE FOR ALL POLES, LISTED AS TYPE SWD FOR LIGHTING CIRCUITS, TYPE HACR FOR AIR CONDITIONING EQUIPMENT CIRCUITS, CLASS A GROUND FAULT INTERRUPTER CIRCUIT
- BREAKERS WHERE SCHEDULED, DO NOT USE TANDEM CIRCUIT BREAKERS. 43. ENCLOSURE: TYPE 1, UNLESS NOTED OTHERWISE. INSTALL PANELBOARD TO CSA C22.1.
- 45. HEIGHT: 1800mm TO TOP OF PANELBOARD; INSTALL PANELBOARD TALLER THAN 1800mm WITH BOTTOM NO MORE THAN 100mm ABOVE FLOOR.
- 46. PROVIDE ENGRAVED PLASTIC NAMEPLATES.

# 26 27 26 WIRING DEVICES

- 47. RECEPTACLES: NOTED OTHERWISE
- 48 LIGHTING SWITCHES:

# 26 51 13 LUMINAIRES

50.

52.	EMERGENCY LIGH
	WITH SOLID STATE
	LEAD ACID 24VDC
	WATTAGE IS AS IN
53.	EMERGENCY LIGH
54.	ACCEPTABLE MAN
	APPROVED EQUIV
55.	BATTERY UNITS SI
	FOR AC BRANCH C

# 26 53 00 EXIT SIGNS

56.

# 48.3 ALL DEVICES SHALL BE OF ONE MANUFACTURER

- ARCHITECTURAL CEILING PLAN. 51. 26 53 50 EMERGENCY LIGHTING UNITS

ALL FIRE ALARM CABLING SHALL BE RUN IN EMT CONDUIT. USE CONDUIT HUBS OR SEALING LOCKNUTS FOR FASTENING CONDUITS TO CAST 27.

GENERAL NOTES: THE GENERAL NOTES AS DESCRIBED HEREIN, APPLY TO ALL DRAWINGS IN THIS PACKAGE WHERE APPLICABLE

- PENETRATIONS IN WALLS OR SEPERATIONS REQUIRING PROTECTED OPENINGS SHALL BE FIRESTOPPED WITH AN APPROVED MATERIAL
- EXPOSED WIRING SHALL NOT BE PERMITTED. WIRING SHALL BE RECESSED IN WALL. OR WHERE WALLS ARE NOT ACCESSIBLE DUE TO WALL CONSTRUCTION 2. (CONCRETE BLOCK, CONCRETE, BRICK, ETC), PROVIDE CONDUIT AS REQUIRED TO CONCEAL SAME.
- REFER TO ARCHITECTURAL FLOOR PLANS FLEVATIONS AND DETAILS INCLUDING MILLWORK DETAILS AND SHOP DRAWINGS FOR COORDINATION OF FLECTRICAL DEVICE LOCATIONS. METHOD OF INSTALLATION & MOUNTING HEIGHTS. ARCHITECTURAL FLOOR PLANS. ELEVATIONS AND DETAILS TAKE PRECEDENCE OVER LOCATIONS SHOWN ON ELECTRICAL DRAWINGS.
- UNLESS NOTED OTHERWISE. THE CIRCUITING INDICATED ON THE DRAWINGS IS 4. REPRESENTATIONAL ONLY. CONFIRM CIRCUITING REQUIREMENTS ON SITE.
- CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING AND VOLTAGE DROP REQUIREMENTS, UNLESS
- INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE. MINIMUM CONDUIT SIZE SHALL BE 21mm (3/4") UNLESS NOTED OTHERWISE 7. CONDUIT AND WIRE SHALL NOT BE INSTALLED BELOW FLOOR SLAB UNLESS INDICATED ON PLAN BY DASHED CONDUIT/LINE.
- EMPTY CONDUIT SHALL BE C/W PULL WIRE AND PLASTIC BUSHINGS 8.
- ALL CONDUCTORS OPERATING AT 50 VOLTS OR GREATER SHALL BE IN RACEWAY. ALL RACEWAY WITHIN THE STRUCTURE ABOVE THE FLOOR SLAB SHALL BE METAL RACEWAY BELOW THE FLOOR SLAB AND UNDERGROUND RACEWAY OUTSIDE THE STRUCTURE SHALL BE PVC
- ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH 10. 6' LONG FLEXIBLE METAL CONDUIT.
- WHERE CONNECTED TO A 20A. BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL 11 RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED AT 20A.
- DATA OUTLETS, FIRE ALARM DEVICES SHALL CONSIST OF A BACK BOX WITH CONDUIT STUBBED ABOVE THE ACCESSIBLE CEILING SEE STUB UP DETAIL VERIFY SIZE OF BACK BOX REQUIRED WITH DEVICE TO BE INSTALLED LOCATE BACK BOXES 6" FROM ADJACENT POWER RECEPTACLE INTENDED FOR COMPUTER USE
- REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.

47.1 DUPLEX RECEPTACLES SHALL BE SPECIFICATION GRADE, CSA 5-20R UNLESS 47.2 MANUFACTURES: HUBBELL, LEVITON, PASS \$ SEYMOUR 47.3 OTHER RECEPTACLE TYPES AS INDICATED ON PLANS 47.4 ALL RECEPTACLES SHALL BE OF ONE MANUFACTURER

48.1 ALL LINE VOLTAGE SWITCHES SHALL SPECIFICATION GRADE, DECORA STYLE, 20A, SINGLE POLE OR AS INDICATED ON DRAWINGS. 48.2 MANUFACTURES: HUBBELL, LEVITON, PASS \$ SEYMOUR

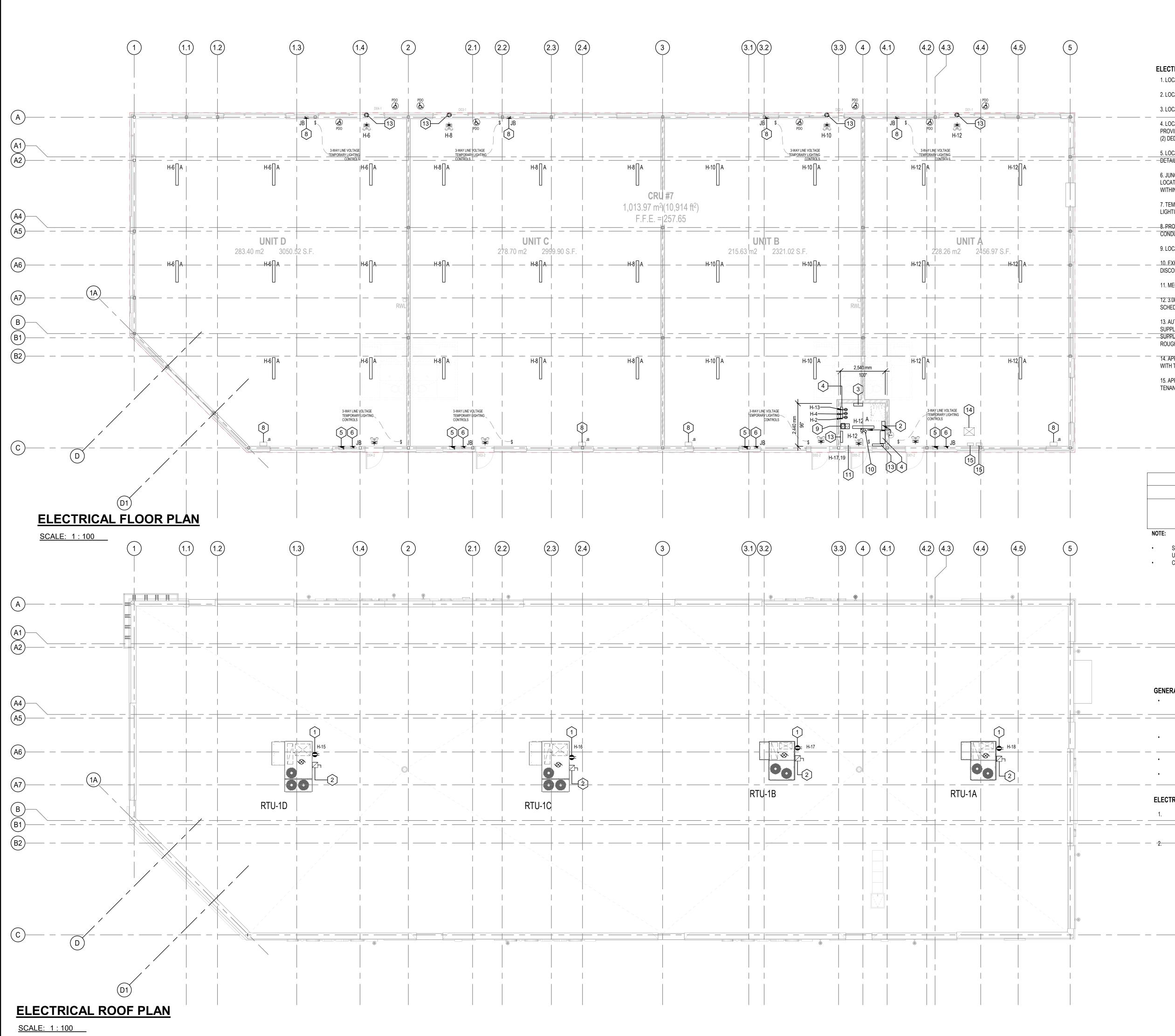
49 LUMINAIRES ARE INDICATED IN THE LUMINAIRE SCHEDULE BY MEANS OF TYPE LETTERS WHICH CORRESPOND TO SIMILAR LETTERS ON PLANS. FOR EXACT LOCATION OF CEILING MOUNTED LUMINAIRES, REFER TO PROVIDE LUMINAIRE TYPES AS INDICATED ON LIGHTING SCHEDULE. ALTERNATES MUST BE REVIEWED AND APPROVED PRIOR TO SHOP DRAWING STAGE.

> TING UNITS SHALL BE FOR OPERATION AT 120 OR 347VAC C/W E CHARGER, STATUS INDICATORS, SEALED MAINTENANCE-FREE BATTERIES. PROVIDE PRORATED WARRANTY. BATTERY NDICATED ON DRAWINGS.

> TING HEADS, ADJUSTABLE LED TYPE. NUFACTURERS: BEGHELLI, READY-LITE, LUMACELL, OR PRE-SHALL BE DIRECT CONNECTED TO LOCAL AREA LIGHTING CIRCUIT CIRCUIT FAILURE PROTECTION AS REQUIRED BY CODE.

ALL EXIT SIGNS SHALL CONFORM TO CURRENT CSA C860 STANDARDS. ALL WIRING SHALL CONFORM TO ONTARIO ELECTRICAL SAFETY CODE 46-400. EXIT SIGNS SHALL NOT BE SUPPORTED ON T-BAR TILES OR DRYWALL. THEY SHALL BE SUPPORTED FROM CEILING SUPPORT SYSTEM (I.E. T-BAR GRID). PROVIDE HORIZONTAL BACK SUPPORT SYSTEM AS REQUIRED.

Site Plan:   North Arrow:   Consultant:
Seal: Seal:
General Notes:
IT IS THE RESPONSIBILITY OF THE OWNER, GENERAL AND/OR TENANT CONTRACTOR AND ALL SUB-TRADES TO BE FAMILIAR WITH THE PROJECT AS A WHOLE. ALL DISCREPANCIES AND DIMENSIONAL ERRORS ON THE PLANS AND RELATED DOCUMENTS MUST BE REPORTED TO CREATIVE STRUCTURES (CS) PRIOR TO COMMENCING ANY WORK. DO NOT SCALE DRAWING. 'FOR CONSTRUCTION DRAWINGS' MUST HAVE ORIGINAL CONSULTANTS STAMP AND SIGNATURE. ALL CONSTRUCTION AND MATERIALS MUST CONFORM WITH APPLICABLE CODES AND C.M.H.C. STANDARDS AND BE APPROVED BY OWNER THE CONTENTS OF THIS DRAWING REMAIN THE COPYRIGHT PROPERTY OF CREATIVE STRUCTURES (CS) AND SHALL NOT BE COPIED OR REPRODUCED IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT OF CREATIVE STRUCTURES. THESE DRAWINGS AND ALL DETAILS ARE FOR THIS PROJECT ONLY AND SHOULD NOT BE USED FOR ANY OTHER WORK.
IT IS THE RESPONSIBILITY OF THE APPROPRIATE CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS ON SITE AND REPORT ALL ERRORS AND / OR OMISSIONS TO CREATIVE STRUCTURES LTD. PRIOR TO COMMENCING WORK. ALL DIMENSIONS AND LEVELS ARE APPROXIMATE AND SHOULD BE CONFIRMED BY OWNER AND GENERAL CONTRACTOR PRIOR CONSTRUCTION. ALL CONTRACTORS MUST COMPLY WITH ALL PERTINENT BUILDING CODE REGULATIONS AND BYLAWS HAVING JURISDICTION. THIS DRAWING MUST NOT BE USED FOR CONSTRUCTION UNTIL IT HAS BEEN ISSUED AND MARKED "ISSUED FOR CONSTRUCTION". THE DRAWING SHALL NOT BE USED FOR CONSTRUCTION". THE DRAWINGS SHALL NOT BE USED FOR CONSTRUCTION". THE DRAWINGS SHALL NOT BE USED FOR CONSTRUCTION". THE DRAWINGS SHALL NOT BE USED FOR PRICING, COSTING, OR TENDER UNLESS INDICATED IN THE REVISION COLUMN AND THESE DRAWINGS ARE NOT COMPLETE AND ANY PRICES BASED ON THESE DRAWINGS MUST INCLUDE ALLOWANCES FOR THIS WITH NO LIABILITY ON CREATIVE STRUCTURES LTD.
CONTRACTOR IS FULLY RESPONSIBLE FOR MATTERS AFFECTING CONSTRUCTION. ANY MATERIAL ALTERATIONS CARRIED OUT DURING CONSTRUCTION BY THE CONTRACTOR OR ASSOCIATED SUB-CONTRACTOR SHALL BE CONFIRMED WITH THE ENGINEER PRIOR TO INSTALL. FAILURE TO DO SO RESULTS IN FULL CONTRACTOR RESPONSIBILITY FOR SYSTEMS AFFECTED.
3 Apr 03, 2024 ISSUED FOR TENDER
2     Mar 12, 2024     ISSUED FOR COORDINATION       No.     Date     Revision
Project: WESTELL DEVELOPMENT CORP 1300 FANSHAWE PARK
ROAD. EAST CRU #7 1300 FANSHAWE PARK ROAD. EAST. LONDON, ON. Drawing Title:
GENERAL ELECTRICAL NOTES I
Drawn By:     D.H.     Scale:     AS INDICATED       Checked By:     WAEL     Plot Date:     APR 03, 2024       Project Date:     JAN 2024
Project No: 2023-102 Drawing No: Revision 3



# ELECTRICAL KEYNOTES (DENOTED BY) : \-(#)

1. LOCATION OF THE MAIN DISCONNECT SWITCH

2. LOCATION OF THE METER STACK, TYPICAL SIZE: 30"W x 8"D x 72"H, , PLUS 18"W TAP BOX.

3. LOCATION OF HOUSE PANEL 20"W x 6"D x 48"H.

4. LOCATION OF FIRE RATED PLYWOOD BACKBOARD FOR COMMUNICATION DEMARC. PROVIDE #6 BOND BACK TO BUILDING GROUND. TYPICAL SIZE: 48"L X 96"H X 3/4"T. PROVIDE (2) DEDICATED RECEPTACLES TO BE FED FROM HOUSE PANEL.

5. LOCATION OF FUTURE TENANT ELECTRICAL PANEL. REFER TO DRAWING E300 FOR MORE DETAIL. COORDINATE PANEL LOCATION WITH TENANT'S DRAWINGS PRIOR TO ROUGH-IN.

6. JUNCTION BOX FOR TENANTS COMMUNICATION SERVICES. CONFIRM EXACT MOUNTING & LOCATION ON SITE. RUN 2" CONDUIT FROM JUNCTION BOX TO COMMUNICATION BACKBOARD WITHIN MECHANICAL ROOM.

7. TEMPORARY LIGHTING TO BE FED FROM HOUSE PANEL. TYPICAL AS INDICATED. FINAL LIGHTING LAYOUT BY TENANT.

8. PROVIDE ROUGH-IN FOR TENANT SIGNAGE TO BE LOCATED AT HIGH LEVEL. PROVIDE 3/4" CONDUIT C/W PULL STRING TO TENANT PANEL LOCATION (TYPICAL).

9. LOCATION OF EXTERIOR LIGHTING CONTROLS.

10. EXHAUST FAN EF-1, 120V 1PH. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL DISCONNECTING MEANS AT UNIT.

11. MECH/ELEC ROOM. REFER TO DRAWING E300 FOR DISTRIBUTION DIAGRAM DETAILS.

12. 3.0kW ELECTRIC HEATER EH-1. REFER TO DRAWING M002 FOR ELECTRICAL HEATER SCHEDULE.

13. AUTOMATIC DOOR OPERATOR LOCATION. PROVIDE 120V WIRING AND CONNECTIONS. SUPPLY LOW VOLTAGE CONDUIT AND CONDUCTORS. CONFIRM REQUIREMENTS WITH SUPPLIER. CONFIRM ALL LOCATIONS WITH G.C. AND DOOR OPERATOR INSTALLER PRIOR TO ROUGH-IN.

14. APPROXIMATE LOCATION OF TENANT TRANSFORMER. COORDINATE EXACT LOCATIONS WITH TENANT.

15. APPROXIMATE LOCATION OF TENANT 208V PANELS. COORDINATE LOCATIONS WITH TENANT.

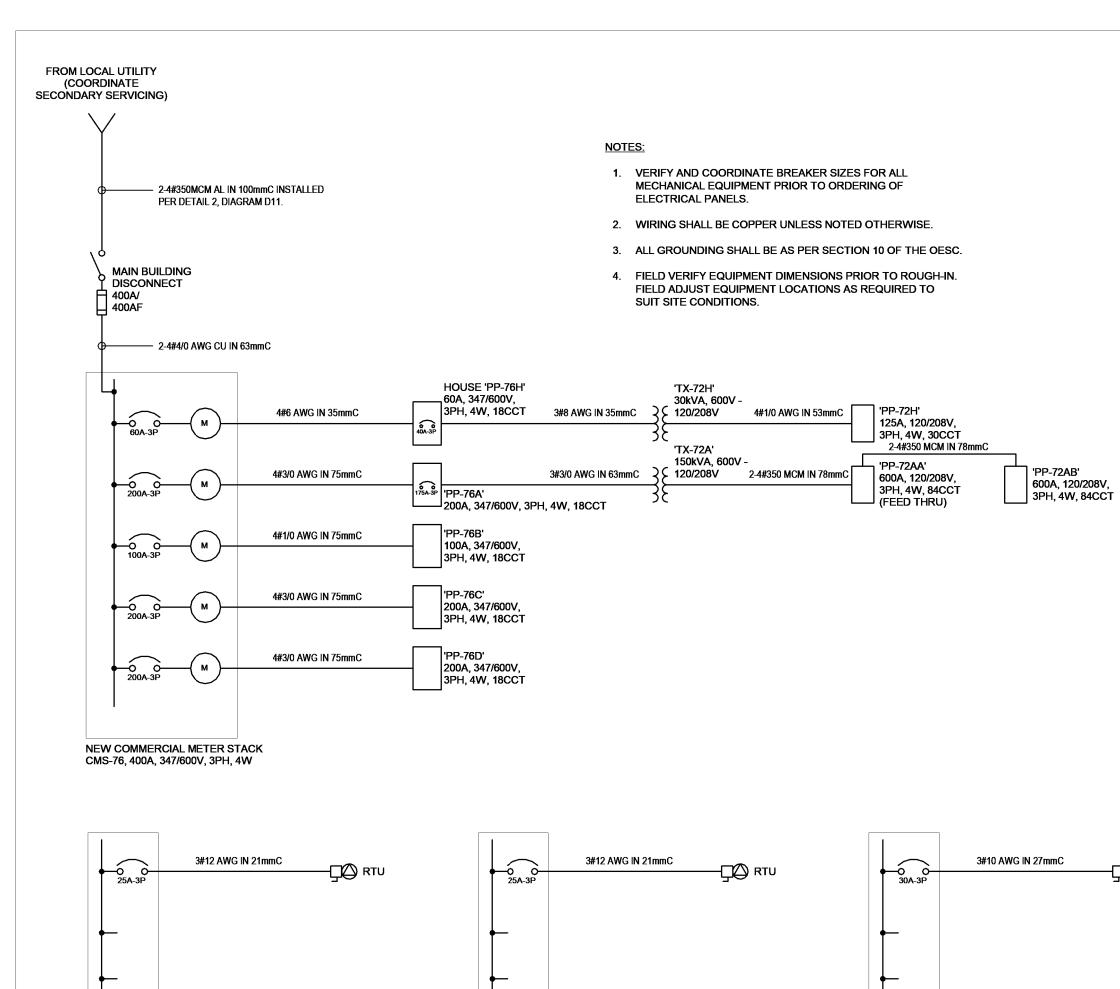
	LIGHTING FIXTURE SCHEDULE								
	TYPE DESCRIPTION								
		TYPE 'A'	4' LED FIXTURE, LITHONIA LIGHTING, CAT# ZL1N L48 ASR 3000LM L/LENS MVOLT 35K 80CRI WH						
NOTE:									
•	SEE THE	SPECIFICATIONS ON	SHEET E002 - SECTION 26 53 50 EMERGENCY LIGHTING						

UNITS FOR EMERGENCY LIGHTING BATTERY PACK SPECIFICATIONS. COORDINATE ALL PANEL FINAL LOCATIONS WITH OWNER REPRESENTATIVE.

### **GENERAL NOTES:**

- ALLOW ADEQUATE SPACING AROUND ALL CONDUIT & CABLE PENETRATIONS FOR PROPER FIRE STOPPING. CONSULT WITH G.C. ON SITE. ELECTRICAL CONTRACTOR TO ENSURE ARMOURED & COMMUNICATION CABLES ARE NOT RUN IN CONTACT WITH CPVC SPRINKLER OR WATER PIPING. ELECTRICAL CONTRACTOR TO ENSURE ARMOURED & COMMUNICATION CABLES ARE NOT RUN IN CONTACT WITH CPVC SPRINKLER OR WATER PIPING. ENSURE EXIT LIGHTS ARE VISIBLE BELOW ALL PIPING AND OBSTRUCTIONS. NO SERVICES ARE TO BE INSTALLED IN TRANSFORMER VAULTS, ELEVATOR • MACHINE ROOMS OR EXIT STAIRWELLS UNLESS THEY SERVE THE ROOM THEY ARE INSTALLED IN, OR ARE INSTALLED WITHIN A FIRE RATED BULKHEAD. ELECTRICAL KEYNOTES (DENOTED BY) : - (#)
- 1. ALL RECEPTACLES ON THE ROOF ARE TO BE MOUNTED AT 36" ABOVE THE TOP OF THE ROOFING MATERIAL AND PROTECTED FROM MECHANICAL DAMAGE. ENSURE GFCI' PROTECTION (TYPICAL).
- ROOT TOP UNITS PROVIDED BY MECHANICAL. ELECTRICAL CONTRACTOR TO INSTALL AND PROVIDE WEATHERPROOF NON-FUSED DISCONNECTING MEANS AT UNIT. RUN FEEDER BACK TO ELECTRICAL SERVICE LOCATION FOR THAT TENANT. REFER TO DISTRIBUTION DIAGRAM ON DRAWING E300 (TYPICAL).

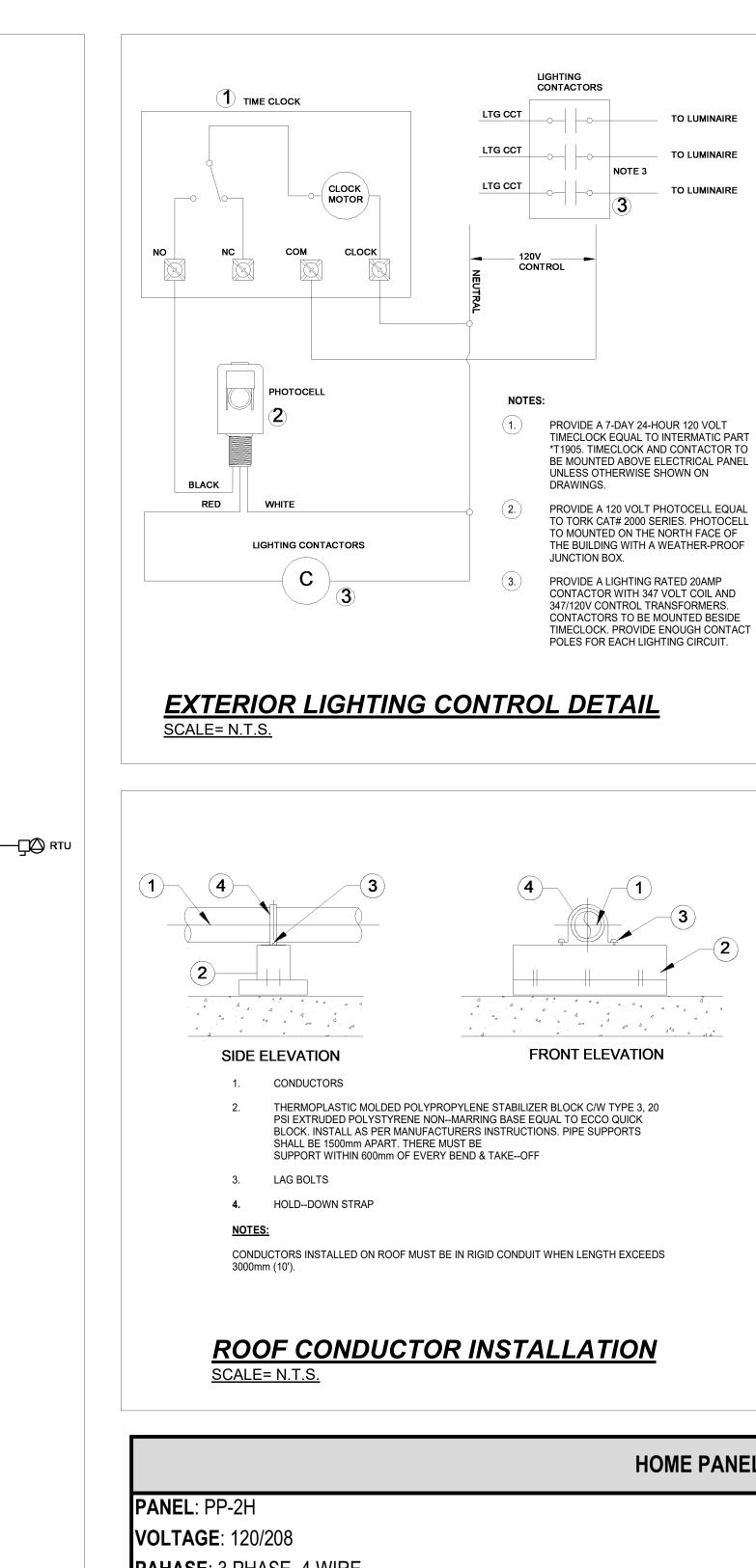
Key Plan:       Image: Current of the second o	FUTURE VELOPMENT I CRU3 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
Consultant: Consultant: Seal: Seal: Seal:	<b>VERTURES</b> CS@CREATIVESTR.CA
General Notes: IT IS THE RESPONSIBILITY OF THE OWNER, GENERAL CONTRACTOR AND ALL SUB-TRADES TO BE FAMILIAF WHOLE. ALL DISCREPANCIES AND DIMENSIONAL ERF	WITH THE PROJECT AS A
<ul> <li>PRIOR TO COMMENCING ANY WORK.</li> <li>DO NOT SCALE DRAWING. 'FOR CONSTRUCTION DR ORIGINAL CONSULTANTS STAMP AND SIGNATURE. AL MATERIALS MUST CONFORM WITH APPLICABLE CODE STANDARDS AND BE APPROVED BY OWNER</li> <li>THE CONTENTS OF THIS DRAWING REMAIN THE COPY CREATIVE STRUCTURES (CS) AND SHALL NOT BE COD WHOLE OR IN PART WITHOUT WRITTEN CONSENT OF</li> <li>THESE DRAWINGS AND ALL DETAILS ARE FOR THIS PI SHOULD NOT BE USED FOR ANY OTHER WORK.</li> <li>IT IS THE RESPONSIBILITY OF THE APPROPRIATE CON VERIFY ALL DIMENSIONS ON SITE AND REPORT ALL E OMISSIONS TO CREATIVE STRUCTURES LTD. PRIOR T ALL DIMENSIONS AND LEVELS ARE APPROXIMATE AN BY OWNER AND GENERAL CONTRACTOR PRIOR CONS ALL CONTRACTORS MUST COMPLY WITH ALL PERTIN REGULATIONS AND BYLAWS HAVING JURISDICTION.</li> <li>THIS DRAWING MUST NOT BE USED FOR CONSTRUCT STAMPED BY CREATIVE STRUCTURES LTD. AND A BU ISSUED AND MARKED "ISSUED FOR CONSTRUCTION". NOT BE USED FOR PRICING, COSTING, OR TENDER UT REVISION COLUMN AND THESE DRAWINGS ANS INCLUDE WITH NO LIABILITY ON CREATIVE STRUCTURES LTD.</li> <li>CONSTRUCTION TO BE ACCORDING TO BEST COMMO CONTRACTOR IS FULLY RESPONSIBLE FOR MATTERS CONSTRUCTION.</li> <li>ANY MATERIAL ALTERATIONS CARRIED OUT DURING A CONTRACTOR OR ASSOCIATED SUB-CONTRACTOR SI THE ENGINEER PRIOR TO INSTALL FAILURE TO DO SC CONTRACTOR RESPONSIBILITY FOR SYSTEMS AFFEC</li> </ul>	L CONSTRUCTION AND S AND C.M.H.C. (RIGHT PROPERTY OF PIED OR REPRODUCED IN C CREATIVE STRUCTURES. ROJECT ONLY AND ITRACTOR TO CHECK AND RRORS AND / OR O COMMENCING WORK. D SHOULD BE CONFIRMED STRUCTION. ENT BUILDING CODE ION UNTIL IT HAS BEEN ILDING PERMIT HAS BEEN ILDING PERMIT HAS BEEN ILDING PERMIT HAS BEEN ILDING PERMIT HAS BEEN ILLING SHALL N PRACTICE. AFFECTING CONSTRUCTION BY THE HALL BE CONFIRMED WITH D RESULTS IN FULL
2 Mar 12, 2024 ISSUED FOR C	DR TENDER COORDINATION rision TABLE
WESSICE DEVEL 1300 FANSHAWE ROAD. EAST O 1300 FANSHAWE PARK ROAD. EAST. L Drawing Title: ELECTRICAL LA FLOOR AND F PLANS	CRU #7 ONDON, ON.
Drawn By: D.H. Scale:	AS INDICATED
Project No: 2023-102 Drawing No: E100	Revision 3



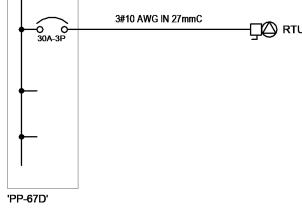
'PP-67B'

'PP-67A'

'PP-67C'



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			НО	ME F	PANEL SC	HEDI	JLE			
PANEL: PP-2H /OLTAGE: 120/208 PAHASE: 3 PHASE, 4 WIRE MAINS: 200A LOCATION: ELEC RM.						MO	Jnting: S	URFA	CE	
DESCRIPTION	WIRE SIZE	VA	BREAK	ER	Ø	BF	REAKER	VA	WIRE SIZE	DESCRIPTION
EXTERIOR LIGHT			20A	1	A	2	20A			EXTERIOR LIGHT
EXTERIOR LIGHT			20A	3	В	4	20A			EXTERIOR LIGHT
			20A	5	С	6	20A			INTERIOR LIGHTS
PDO			20A	7	А	8	20A			INTERIOR LIGHTS
INTERIOR LIGHTS			20A	9	В	10	20A			INTERIOR LIGHTS
EF-1			20A	11	С	12	20A			INTERIOR LIGHTS
HEATER			20A	13	А	14	20A			
HVAC RECEP			20A	15	В	16	20A			HVAC RECEP
HVAC RECEP			20A	17	С	18	20A			HVAC RECEP
			20A	19	А	20	20A			EXTERIOR LIGHT
			20A	21	В	22	20A			HVAC RECEP
			20A	23	С	24	20A			SPARE

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	General Notes:         IT IS THE RESPONSIBILITY OF THE OWNER, GENERAL AND/OR TENANT CONTRACTOR AND ALL SUB-TRADES TO BE FAMILIAR WITH THE PROJECT AS A WHOLE. ALL DISCREPANCIES AND DIMENSIONAL ERRORS ON THE PLANS AND RELATED DOCUMENTS MUST BE REPORTED TO CREATIVE STRUCTURES (CS) PRIOR TO COMMENCING ANY WORK.         DO NOT SCALE DRAWING. 'FOR CONSTRUCTION DRAWINGS' MUST HAVE ORIGINAL CONSULTANTS STAMP AND SIGNATURE. ALL CONSTRUCTION AND MATERIALS MUST CONFORM WITH APPLICABLE CODES AND C.M.H.C. STANDARDS AND BE APPROVED BY OWNER         THE CONTENTS OF THIS DRAWING REMAIN THE COPYRIGHT PROPERTY OF CREATIVE STRUCTURES (CS) AND SHALL NOT BE COPIED OR REPRODUCED IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT OF CREATIVE STRUCTURES.         THESE DRAWINGS AND ALL DETAILS ARE FOR THIS PROJECT ONLY AND SHOULD NOT BE USED FOR ANY OTHER WORK.         IT IS THE RESPONSIBILITY OF THE APPROPRIATE CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS ON STRE AND REPORT ALL ERRORS AND / OR OMISSIONS TO CREATIVE STRUCTURES LTD. PRIOR TO COMMENCING WORK. ALL DIMENSIONS AND LEVELS ARE APPROXIMATE AND SHOULD BE CONFIRMED BY OWNER AND GENERAL CONTRACTOR PRIOR CONSTRUCTION.         ALL CONTRACTORS MUST COMPLY WITH ALL PERTINENT BUILDING CODE REGULATIONS AND LEVELS ARE APPROXIMATE AND SHOULD BE CONFIRMED BY OWNER AND GENERAL CONTRACTOR ON STRUCTION.         ALL CONTRACTORS MUST COMPLY WITH ALL PERTINENT BUILDING CODE REGULATIONS AND BYLAWS HAVING JURISDICTION.         THIS DRAWING NUST NOT BE USED FOR CONSTRUCTION UNTIL IT HAS BEEN STAMPED BY CREATIVE STRUCTURES LTD. AND A BUILDING PERMIT HAS BEEN SISUED AND MARKED 'ISSUED FOR CONSTRUCTION.         THIS DRAWING NUST NOT BE USED FOR CONSTRUCTION.       THE DRAWING MUST NOT BE USED FOR CONSTRUCTION.
	3       Apr 03, 2024       ISSUED FOR TENDER         2       Mar 12, 2024       ISSUED FOR COORDINATION         No.       Date       Revision         ISSUES/REVISION TABLE         Project:         WESTORELLED         ISSUES/REVISION TABLE
	ROAD. EAST CRU #7         1300 FANSHAWE PARK ROAD. EAST. LONDON, ON.         Drawing Title:         DISTRIBUTION DIAGRAM AND ELECTRICAL DETAILS         DISTRIBUTION DIAGRAM AND ELECTRICAL DETAILS         Drawn By:       D.H.       Scale:       AS INDICATED         Checked By:       WAEL       Plot Date:       APR 03, 2024         Project Date:       JAN 2024       Project No:       2023-102         Drawing No:       Revision
	E300 3

Base Load (30 W/sq.m):         6,84           HVAC (W):         11,40           Misc. (W):         50,00           Total (W):         68,24           Tenant Service:         200A, 347/600V, 3PH, 4W           UNIT B           Area (sq.m):         21           Base Load (30 W/sq.m):         6,45           HVAC (W):         10,75           Misc. (W):         10,75           Misc. (W):         50,00           Total (W):         67,20           Tenant Service:         100A, 347/600V, 3PH, 4W           UNIT C           Area (sq.m):         28           Base Load (30 W/sq.m):         8,40           HVAC (W):         14,00           Misc. (W):         50,00           Total (W):         72,40           Misc. (W):         50,00           Total (W):         72,40           Misc. (W):         50,00           Tenant Service:         200A, 347/600V, 3PH, 4W           HVAC (W):           HVAC (W):         72,40           Tenant Service:         200A, 347/600V, 3PH, 4W           Misc. (W):           Misc. (W):         50,00           <	LOAD CALCULATION	IS - CRU 7
Area (sq.m):         22           Base Load (30 W/sq.m):         6,84           HVAC (W):         11,40           Misc. (W):         50,00           Total (W):         50,00           Total (W):         68,24           Tenant Service:         200A, 347/600V, 3PH, 4W           UNIT B           Area (sq.m):         21           Base Load (30 W/sq.m):         6,45           HVAC (W):         10,75           Misc. (W):         50,00           Total (W):         67,20           Tenant Service:         100A, 347/600V, 3PH, 4W           Out It C           UNIT C         346           Area (sq.m):         28           Base Load (30 W/sq.m):         8,40           HVAC (W):         14,00           Misc. (W):         50,00           Total (W):         72,40           Tenant Service:         200A, 347/600V, 3PH, 4W           UINIT D         347           Misc. (W):         36,55           HVAC (W):         14,25           Misc. (W):         36,55           HVAC (W):         14,25           Misc. (W):         50,00           Total (W		
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HVAC (W):       11,40         Misc. (W):       50,00         Total (W):       68,24         Tenant Service:       200A, 347/600V, 3PH, 4W         UNIT B         Area (sq.m):       21         Base Load (30 W/sq.m):       6,45         HVAC (W):       10,75         Misc. (W):       50,00         Total (W):       67,20         Tenant Service:       100A, 347/600V, 3PH, 4W         OUNIT C         Misc. (W):       67,20         Tenant Service:       100A, 347/600V, 3PH, 4W         OUNIT C         Area (sq.m):       28         Base Load (30 W/sq.m):       8,40         HVAC (W):       14,00         Misc. (W):       72,40         Tenant Service:       200A, 347/600V, 3PH, 4W         UNIT D         Misc. (W):       72,40         Tenant Service:       200A, 347/600V, 3PH, 4W         OUA, 347/600V, 3PH, 4W		
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Total (W):         68,24           Tenant Service:         200A, 347/600V, 3PH, 4W           UNIT B         21           Area (sq.m):         21           Base Load (30 W/sq.m):         6,45           HVAC (W):         10,75           Misc. (W):         50,00           Total (W):         67,20           Tenant Service:         100A, 347/600V, 3PH, 4W           UNIT C         64           Area (sq.m):         28           Base Load (30 W/sq.m):         8,40           HVAC (W):         14,00           Misc. (W):         50,00           Total (W):         72,40           Misc. (W):         200A, 347/600V, 3PH, 4W           UNIT D         28           Base Load (30 W/sq.m):         36,55           HVAC (W):         14,25		
Tenant Service:         200A, 347/600V, 3PH, 4W           UNIT B         Area (sq.m):         21:           Base Load (30 W/sq.m):         6,45:           HVAC (W):         10,75:           Misc. (W):         50,00           Total (W):         67,20           Tenant Service:         100A, 347/600V, 3PH, 4W           UNIT C         64,40           Area (sq.m):         67,20           Tenant Service:         100A, 347/600V, 3PH, 4W           UNIT C         8,40           HVAC (W):         14,00           Misc. (W):         50,000           Total (W):         72,40           Misc. (W):         50,000           Total (W):         72,40           Tenant Service:         200A, 347/600V, 3PH, 4W           UNIT D         28           Base Load (30 W/sq.m):         347/600V, 3PH, 4W           UNIT D         28           Base Load (30 W/sq.m):         8,55           HVAC (W):         14,25           Misc. (W):         50,00           Total (W):         72,80<		
UNIT B           Area (sq.m):         21.           Base Load (30 W/sq.m):         6,45           HVAC (W):         10,75           Misc. (W):         50,00           Total (W):         50,00           Total (W):         67,20           Tenant Service:         100A, 347/600V, 3PH, 4W           UNIT C         8,40           Area (sq.m):         28           Base Load (30 W/sq.m):         8,40           HVAC (W):         14,00           Misc. (W):         50,00           Total (W):         72,40           Misc. (W):         72,40           Tenant Service:         200A, 347/600V, 3PH, 4W           UNIT D         28           Base Load (30 W/sq.m):         8,55           HVAC (W):         72,40           Tenant Service:         200A, 347/600V, 3PH, 4W           UNIT D         28           Base Load (30 W/sq.m):         8,55           HVAC (W):         14,25           Misc. (W):         14,25           Misc. (W):         50,00           Total (W):         50,00           Total (W):         72,80		
Area (sq.m):         21           Base Load (30 W/sq.m):         6,45           HVAC (W):         10,75           Misc. (W):         50,00           Total (W):         67,20           Tenant Service:         100A, 347/600V, 3PH, 4W           UNIT C           Area (sq.m):         28           Base Load (30 W/sq.m):         8,40           HVAC (W):         14,00           Misc. (W):         50,00           Total (W):         72,40           Tenant Service:         200A, 347/600V, 3PH, 4W           UNIT D           Area (sq.m):           Area (sq.m):         28           Base Load (30 W/sq.m):         50,00           Total (W):         72,40           Tenant Service:         200A, 347/600V, 3PH, 4W           Misc. (W):           Area (sq.m):         28           Base Load (30 W/sq.m):         8,55           HVAC (W):         14,25           Misc. (W):         14,25           Misc. (W):         50,00           Total (W):         72,80	Tenant Service:	200A, 347/600V, 3PH, 4W
Base Load (30 W/sq.m):         6,45           HVAC (W):         10,75           Misc. (W):         50,00           Total (W):         67,20           Tenant Service:         100A, 347/600V, 3PH, 4W           UNIT C         28           Base Load (30 W/sq.m):         8,40           HVAC (W):         14,00           Misc. (W):         50,00           Total (W):         72,40           Misc. (W):         50,00           Total (W):         72,40           Misc. (W):         28           Base Load (30 W/sq.m):         8,400           HVAC (W):         14,000           Misc. (W):         50,000           Total (W):         72,400           Misc. (W):         50,000           Total (W):         72,400           Misc. (W):         28           Base Load (30 W/sq.m):         8,55           HVAC (W):         14,25           Misc. (W):         14,25           Misc. (W):         50,000           Total (W):         72,800	UNIT B	
Base Load (30 W/sq.m):         6,45           HVAC (W):         10,75           Misc. (W):         50,00           Total (W):         67,20           Tenant Service:         100A, 347/600V, 3PH, 4W           UNIT C         28           Base Load (30 W/sq.m):         8,40           HVAC (W):         14,00           Misc. (W):         50,00           Total (W):         72,40           Misc. (W):         50,00           Total (W):         72,40           Misc. (W):         28           Base Load (30 W/sq.m):         8,400           HVAC (W):         14,000           Misc. (W):         50,000           Total (W):         72,400           Misc. (W):         50,000           Total (W):         72,400           Misc. (W):         28           Base Load (30 W/sq.m):         8,55           HVAC (W):         14,25           Misc. (W):         14,25           Misc. (W):         50,000           Total (W):         72,800	Area (sq.m):	21
Misc. (W):         50,000           Total (W):         67,200           Tenant Service:         100A, 347/600V, 3PH, 4W           UNIT C         280           Area (sq.m):         280           Base Load (30 W/sq.m):         8,400           HVAC (W):         14,000           Misc. (W):         50,000           Total (W):         72,400           Misc. (W):         72,400           Tenant Service:         200A, 347/600V, 3PH, 4W           UNIT D         280           Area (sq.m):         280           Area (sq.m):         50,000           Total (W):         72,400           Misc. (W):         72,400           Misc. (W):         72,400           Misc. (W):         72,400           Tenant Service:         200A, 347/600V, 3PH, 4W           Misc. (W):         72,400           Misc. (W):         72,800           Misc. (W):         14,250           Misc. (W):         50,000           Total (W):         72,800		6,45
Total (W):         67,20           Tenant Service:         100A, 347/600V, 3PH, 4W           UNIT C         28           Area (sq.m):         28           Base Load (30 W/sq.m):         8,400           HVAC (W):         14,000           Misc. (W):         50,000           Total (W):         72,400           Tenant Service:         200A, 347/600V, 3PH, 4W           UNIT D         28           Area (sq.m):         280           Area (sq.m):         72,400           Tenant Service:         200A, 347/600V, 3PH, 4W           UNIT D         8,550           Area (sq.m):         28           Base Load (30 W/sq.m):         8,550           HVAC (W):         14,250           Misc. (W):         14,250           Misc. (W):         50,000           Total (W):         72,800	HVAC (W):	10,75
Tenant Service:         100A, 347/600V, 3PH, 4W           UNIT C           Area (sq.m):         280           Base Load (30 W/sq.m):         8,400           HVAC (W):         14,000           Misc. (W):         50,000           Tenant Service:         200A, 347/600V, 3PH, 4W           UNIT D         280           Area (sq.m):         72,400           Tenant Service:         200A, 347/600V, 3PH, 4W           UNIT D         283           Base Load (30 W/sq.m):         284           Base Load (30 W/sq.m):         285           Base Load (30 W/sq.m):         14,250           Misc. (W):         14,250           Misc. (W):         50,000           Total (W):         72,800	Misc. (W):	50,00
UNIT C           Area (sq.m):         280           Base Load (30 W/sq.m):         8,400           HVAC (W):         14,000           Misc. (W):         50,000           Total (W):         72,400           Tenant Service:         200A, 347/600V, 3PH, 4W           UNIT D         280           Area (sq.m):         280           Base Load (30 W/sq.m):         8,550           HVAC (W):         14,250           Misc. (W):         50,000           Total (W):         72,800		67,20
Area (sq.m):       28         Base Load (30 W/sq.m):       8,40         HVAC (W):       14,00         Misc. (W):       50,00         Total (W):       50,00         Tenant Service:       200A, 347/600V, 3PH, 4W         Area (sq.m):         Area (sq.m):       28         Base Load (30 W/sq.m):       28         Base Load (30 W/sq.m):       8,55         HVAC (W):       14,25         Misc. (W):       50,00         Total (W):       50,00	Tenant Service:	100A, 347/600V, 3PH, 4W
Area (sq.m):       28         Base Load (30 W/sq.m):       8,40         HVAC (W):       14,00         Misc. (W):       50,00         Total (W):       50,00         Tenant Service:       200A, 347/600V, 3PH, 4W         Area (sq.m):         Area (sq.m):       28         Base Load (30 W/sq.m):       28         Base Load (30 W/sq.m):       8,55         HVAC (W):       14,25         Misc. (W):       50,00         Total (W):       50,00	UNIT C	
Base Load (30 W/sq.m):         8,40           HVAC (W):         14,00           Misc. (W):         50,00           Total (W):         50,00           Total (W):         72,40           Tenant Service:         200A, 347/600V, 3PH, 4W           Area (sq.m):         28           Base Load (30 W/sq.m):         8,55           HVAC (W):         14,25           Misc. (W):         50,00           Total (W):         72,80		28
HVAC (W):       14,000         Misc. (W):       50,000         Total (W):       72,400         Tenant Service:       200A, 347/600V, 3PH, 4W         UNIT D         Area (sq.m):       288         Base Load (30 W/sq.m):       8,550         HVAC (W):       14,250         Misc. (W):       50,000         Total (W):       72,800	Base Load (30 W/sg.m);	
Misc. (W):       50,000         Total (W):       72,400         Tenant Service:       200A, 347/600V, 3PH, 4W         UNIT D         Area (sq.m):       288         Base Load (30 W/sq.m):       8,550         HVAC (W):       14,250         Misc. (W):       50,000         Total (W):       72,800		
Total (W):         72,40           Tenant Service:         200A, 347/600V, 3PH, 4W           UNIT D         28           Area (sq.m):         28           Base Load (30 W/sq.m):         8,55           HVAC (W):         14,25           Misc. (W):         50,00           Total (W):         72,80		· · · · · · · · · · · · · · · · · · ·
UNIT D           Area (sq.m):         28           Base Load (30 W/sq.m):         8,55           HVAC (W):         14,25           Misc. (W):         50,00           Total (W):         72,80		
Area (sq.m):         28           Base Load (30 W/sq.m):         8,55           HVAC (W):         14,25           Misc. (W):         50,00           Total (W):         72,80	Tenant Service:	200A, 347/600V, 3PH, 4W
Area (sq.m):         28           Base Load (30 W/sq.m):         8,55           HVAC (W):         14,25           Misc. (W):         50,00           Total (W):         72,80		
Base Load (30 W/sq.m):         8,55           HVAC (W):         14,25           Misc. (W):         50,00           Total (W):         72,80		20
HVAC (W):         14,25           Misc. (W):         50,00           Total (W):         72,80		
Misc. (W):         50,00           Total (W):         72,80		
Total (W): 72,80		
	Tenant Service:	200A, 347/600V, 3PH, 4W
Total Building Load (W): 280,64	Total Building Load (W):	280,64
Total Building Service: 400A, 347/600V, 3ph, 4w		400A, 347/600V, 3ph, 4w