			LEGEND	OF ELECTRICAL SYM	BOLS		
	LIGHTING		MECHANICAL		COMMUNICATION SYSTEMS		FIRE ALARM
Ø	RECESSED LED / INCANDESCENT / COMPACT FLUORESCENT LUMINAIRE	\diamond	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
Ф	WALL LED / INCANDESCENT / COMPACT FLUORESCENT LUMINAIRE		MOTOR C/W DISCONNECT SWITCH	\mathbb{V}	COMBINATION VOICE/DATA OUTLET	AC	SMOKE ALARM/CARBON MONOXIDE ALARM C/W STROBE
Ø	LED / INCANDESCENT / COMPACT FLUORESCENT WALL WASHER	нÓ	MOTOR C/W MANUAL STARTER	\forall	TELEVISION OUTLET		SMOKE DETECTOR
X	RECESSED LED / INCANDESCENT / COMPACT FLUORESCENT LUMINAIRE ON EMERGENCY POWER		UNFUSED DISCONNECT SWITCH	\forall	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/W SHUTDOWN RELAY
	FLUORESCENT STRIP LUMINAIRE		MOTOR IDENTIFICATION TAG (REFER TO MECHANICAL SCHEDULE)	M	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	li l	SPRINKLER TAMPER SWITCH
	SURFACE FLUORESCENT LUMINAIRE ON EMERGENCY POWER	Φ	SINGLE/SPECIAL PURPOSE RECEPTACLE		VOLUME CONTROLLER	PŜ)	SPRINKLER PRESSURE SWITCH
	TRACK LIGHTING C/W LIGHTING HEADS AS SHOWN	Φ	DUPLEX RECEPTACLE		Сние		SPRINKLER SUPERVISED VALVE
× ×	POLE MOUNTED LUMINAIRE	<u> </u>	ISOLATED GROUND RECEPTACLE		CLOCK - CEILING MOUNTED		END OF LINE RESISTOR
 @	LIGHTING BOLLARD		GROUND FAULT RECEPTACLE	<u> </u>	CLOCK - WALL MOUNTED	FO	FIRE ALARM BELL
	LIGHTING LUMINAIRE TYPE TAG		SPLIT/SWITCHED CIRCUIT RECEPTACLE		PAC-POLE	F D	FIRE ALARM COMBINATION BELL AND STROBE
(xx) xx		₫	20A T-SLOT RECEPTACLE		WATER DETECTOR		FIRE ALARM COMBINATION BELLAND STROBE
$\underline{\bigotimes}$	EXIT LIGHT - CEILING (C/W ARROWS AS INDICATED)					E C	
	EXIT LIGHT - WALL (C/W ARROWS AS INDICATED)	<u>₩</u>	FOURPLEX RECEPTACLE		GROUND BAR		FIRE ALARM COMBINATION HORN AND STROBE
	EMERGENCY POWER BATTERY PACK	₩	ISOLATED GROUND FOURPLEX RECEPTACLE		BACKBOARD		FIRE ALARM MINI HORNISTROBE WITH SILENCE BUTTON
	EMERGENCY POWER BATTERY PACK C/W LIGHTING HEADS		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
4	SINGLE REMOTE EMERGENCY LIGHTING HEAD - CEILING MOUNT	Ф	FLOOR MOUNTED RECEPTACLE	<u> </u>	SECURITY HORN		FIRE ALARM MINI SPEAKER WITH SILENCE BUTTON
42	DOUBLE REMOTE EMERGENCY LIGHTING HEAD - CEILING MOUNT	Щ Ф	FLOOR MOUNTED ISOLATED GROUND RECEPTACLE	<u></u>	PUSH BUTTON	F	FIRE ALARM SPEAKER - CEILING MOUNTED
4	SINGLE REMOTE EMERGENCY LIGHTING HEAD - WALL MOUNT	中 4			MAGNETIC DOOR HOLD OPEN	(F)	FIRE ALARM COMBINATION SPEAKER/STROBE - CEILING MOUNTED
42	DOUBLE REMOTE EMERGENCY LIGHTING HEAD - WALL MOUNT	K⊅	FLOOR MOUNTED COMPUTER DUPLEX RECEPTACLE W/DEDICATED NEUTRAL		MAGNETIC LOCK	H(F)	FIRE ALARM SPEAKER - WALL MOUNTED
<u>55</u>	SWITCH - SINGLE, TWO, AND THREE GANG	•	CEILING MOUNTED SINGLE/SPECIAL PURPOSE RECEPTACLE	[ES]	ELECTRIC STRIKE	H F J	FIRE ALARM COMBINATION SPEAKER/STROBE - WALL MOUNTED
5	2 POLE SWITCH		CEILING MOUNTED DUPLEX RECEPTACLE		DOOR POSITION SWITCH	F	FIRE PHONE
\mathbb{T}_{3}	SWITCH - 3 WAY	0	CEILING MOUNTED JUNCTION/SLAB BOX	REX	REQUEST TO EXIT SENSOR	IM	ISOLATION MODULE
\oplus	SWITCH - LOW VOLTAGE		FLOOR MOUNTED JUNCTION/SLAB BOX	(MS)	SECURITY MOTION SENSOR	(M)	SUITE AUDIBLE ISOLATOR
\$	SWITCH - KEY SWITCH		WALL MOUNTED JUNCTION BOX	CR	CARD READER	CM	CONTROL MODULE
5	SWITCH - MANUAL STARTER		ELECTRICAL PANELBOARD - SURFACE MOUNTED	V	2-WAY VOICE/PANIC	ММ	MONITORING MODULE
\$	SWITCH - DIMMER SWITCH		ELECTRICAL PANELBOARD - RECESSED	Ē	INTERCOM		GENERAL
\$	SWITCH - OCCUPANCY SENSOR SWITCH	C	CONTACTOR	S	SECURITY STROBE		CONDUIT CONCEALED IN WALL OR CEILING
₽°	SWITCH CW PILOT LIGHT - SINGLE GANG	₽	CAR PLUG POST		CCTV CAMERA		CONDUIT CONCEALED IN SLAB OR RUN UNDERGROUND
\$	SWITCH - TIMER SWITCH	्या	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
	DAYLIGHT HARVESTING LIGHT SENSOR	0-00	DROP CORD		RELAY MODULE		CONDUIT CONTINUATION
[RC]	ON / OFF ROOM CONTROLLER					WP	DENOTES WEATHERPROOF DEVICE
	0-10V DIMMING CONTROLLER					NL	DENOTES UNSWITCHED LUMINAIRE (NIGHT LIGHT)
(PP)	LIGHTING CONTROL POWER PACK					R	DENOTES DEVICE TO REMOVE OR RELOCATE
<u>بن</u>						RL	DENOTES RELOCATED DEVICE
						•	DENOTES FURNITURE MOUNTED DEVICE
						E	DENOTES FORNITURE MOUNTED DEVICE

ELECTRICAL - GENERAL NOTES:

26 00 00 GENERAL ELECTRICAL

- THE FLECTRICAL 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 APPI ICABLE AMENDMENTS OR RULES REGULATING THE INSTALLATION OF FLECTRICAL FOUIPMENT IN NO INSTANCES HOWEVER SHALL THE STANDARDS ESTABLISHED BY CONTRACT DOCUMENTS BE REDUCED BY ANY OF THESE CODES OR REGULATIONS.
- WHERE REQUIRED BY REGULATIONS BEFORE STARTING WORK SUBMIT THE 3.2 APPROPRIATE OF INTERVIEW OF PLANS AND SPECIFICATIONS TO THE FLECTRICA INSPECTION DEPARTMENT AND OBTAIN ALL NECESSARY PERMITS. INCLUDE ALL COSTS OF PLAN APPROVALS AND ALL PERMIT FEES IN THIS TENDER.
- ARRANGE FOR INSPECTION (AS WELL AS ATTENDANCE DURING VERIFICATION) OF 3.3 THE WORK BY ALL APPLICABLE ALTHORITIES HAVING JURISDICTION. INCLUDE ALL INSPECTION COSTS IN THE TENDER PRICE. LIPON COMPLETION OF AND REFORE FINAL PAYMENT WILL BE MADE PRESENT TO
- THE CONSULTANT A CERTIFICATE OF UNCONDITIONAL APPROVAL FOR ALL FI FCTRICAL WORK FROM THE FI FCTRICAL INSPECTION DEPARTMENT AND OTHER AUTHORITIES HAVING JURISDICTION. RESPONSIBILITY
- SUPPLY ALL LAROUR MATERIALS FOLLIPMENT TOOLS AND INCIDENTALS 4.1 NECESSARY TO PROVIDE & COMPLETE ELECTRICAL INSTALLATION AS INDICATED ON THE DRAWINGS AND AS SET OLIT IN THESE SPECIFICATIONS
- COORDINATE ALL ELECTRICAL WORK WITH THE WORK OF OTHER TRADES AND 4.2 PROVIDE THE NECESSARY CONNECTIONS TO ENERGIZE ALL ITEMS OF EQUIPMENT PROVIDED BY OTHER TRADES.
- EXISTING CONDITIONS AND DEMOLITION SUBMISSION OF A TENDER FOR THIS WORK SHALL BE TAKEN THAT THE 5.1
- CONTRACTOR HAS MADE A THOROUGH EXAMINATION OF THE SITE AND EXISTING CONDITIONS. EXAMINE DRAWINGS OF ALL OTHER TRADES AND ALLOW FOR ALL WORK SLICH AS THE REMOVAL AND RE-INSTALLATION OF ELECTRICAL LUMINAIRES FOUIPMENT,
- DEVICES WIRING RACEWAYS FTC WHERE SUCH WORK IS REQUIRED DUE TO ALTERNATIONS IN OR ABOUT THE EXISTING BUILDING. REMOVE ALL SURPLUS ONDUITS WIRING LUMINAIRES AND DEVICES IN RENOVATED AREAS. BLANK OFF OR REMOVE ALL UNUSED OUTLET BOXES. REMOVE ALL FLECTRICAL DEVICES AS INDICATED ON THE DEMOLITION PLANS.
- ALL OTHER EXISTING ELECTRICAL DEVICES ARE TO REMAIN. 54 ALL SURPLUS FLECTRICAL FOUIPMENT DEVICES AND LUMINAIRES SHALL BE CONSIDERED THE OWNER'S PROPERTY LINI ESS OTHERWISE NOTED DURIN DEMOLITION DETERMINE FROM THE OWNER WHICH MATERIALS THEY WISH TO KEEP TRANSPORT AND STORE SLICH ITEMS AT A LOCATION ON SITE AS DIRECTED BY THE OWNER ALL OTHER SURPLUS FLECTRICAL FOUIPMENT DEVICES AND LUMINAIRES 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 FLECTRIC 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 FNANT'S PERMISSION PRIOR TO SCHEDULED INTERRUPTIONS. THE OWNER OR TENANT MAY CANCEL SLICH INTERRUPTIONS IN EMERGENCIES AT THE LAST
- MINUTES WITHOUT PENALTY OR EXTRA COST ASSUME FULL RESPONSIBILITY FOR ANY DISPUTION 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 FOLIPMENT AND PROVIDE ALL LAROUR AT NO EXTRA COST INCLUDE IN THE TENDER PRICE FOR REMOVAL OF SUCH TEMPORARY CONNECTIONS AT COMPLETION OF THE WORK. BASIC MATERIALS
- 6.1 ALL MATERIALS SUPPLIES SHALL BE NEW. OF THE QUANTITIES INDICATED AND BE BEST COMMERCIAL QUALITY OBTAINABLE FOR THE PURPOSE.

APPROVALS

- APPROVAL WILL BE REVIEWED ONLY DURING THE PRICING PERIOD. ALL 7.1 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 FOUIPMENT SPECIFIED ON THE DRAWINGS OR IN THE SPECIFICATIONS ALL SHOW DRAWINGS SHALL CLEARLY INDICATE THE 8.1 PROJECT NAME AND SHALL BEAR THE NAME OR IDENTIFICATION OF EACH PIECE OF FOLIIPMENT CONTRACTOR SHALL REVIEW THE SHOP DRAWINGS AND AFFIX
- REVIEW STAMP PRIOR TO SUBMISSION REVIEW OF THE SHOP DRAWINGS DOES NOT INFER ANY COMMENTS ON 8.2 JUANTITIES LISTED ON THE DRAWINGS. SUBMIT SHOP DRAWINGS FOR ALL LUMINAIRES, EMERGENCY BATTERIES UNITS 8.3
- 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 FLECTRICAL CONTRACT DRAWINGS INCLUDING REVISION DRAWINGS, MARKED CLEARLY AND INDELIBLY IN RED. INDICATING "AS-BUILT" CONDITIONS WHERE SLICH CONDITIONS DEVIATE FROM THE ORIGINAL DIRECTIONS OF THE CONTRACT DOCUMENTS AND INDICATING FINAL INSTALLATION OF DEVICES AND BRANCH CIRCUITS
- SUCH MARKINGS SHALL INCLUDE BUT SHALL NOT BE LIMITED TO THE FOLLOWING: 9.2 ALL CHANGES IN CIRCUITING ROUTING OF CONDUITS NUMBER AND AWG OF CONDUCTORS (#10 AWG AND LARGER) IN
 - RACEWAYS AND CABLES I OCATION OF JUNCTION BOXES AND PULLBOXES
 - LOCATION OF ACCESS PANELS LOCATION OF ALL CONDUIT, INSTALLED EQUIPMENT, DEVICES AND
 - ALL CHANGES TO ELECTRICAL INSTALLATION RESULTING FROM ADDENDA, CHANGE ORDERS, FIELD INSTRUCTIONS AND CONTRACTORS
 - HANGE EXACT LOCATION OF ALL SERVICES LEFT FOR FUTURE WORK
- WALL, CEILING AND FLOOR PENETRATIONS 10
- ANY AND ALL PENETRATIONS THROUGH WALLS. CEILINGS, AND FLOORS (FIRE 10.1 SMOKE SOUND AS WELLAS 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 ALITHORITIES HAVING ILLIRISDICTION LISE SEALING MATERIAL AS MANUFACTURED BY FIRE STOP SYSTEMS. 3M FIRE BARRIER SYSTEM AND APPROVED EQUAL.
- PATCHING NEW STRUCTURES SHALL BE FINISHED TO MATCH THEIR ORIGINAL 10.2 FINISH OR INTENDED FINISH. SEAL ALL SLOTS, CORE HOLES ETC. NOT BEING
- ALL HOLES REQUIRED THROUGH STRUCTURAL STEEL FABRICATIONS AND REINFORCING SHALL BE CARRIED OUT BY AUTHORIZED PERSONNEL AS 10.3 APPROVED BY THE CONSULTANT AND STRUCTURAL ENGINEER TO THEIR COMPLETE SATISFACTION AND SHALL BE PAID FOR BY THE ELECTRICAL CONTRACTOR
- CONTRACTOR SHALL BE RESPONSIBLE TO X-RAY ALL PENETRATIONS PRIOR TO 10.4 11 IDENTIFICATION
- IDENTIFY ALL PIECES OF ELECTRICAL FOUIPMENT (INCLUDING FACH AND EVERY 11.1 RECEPTACLE) OTHER THAN CONDUITS AND CONDUCTORS WITH ENGRAVED I AMINATED PLASTIC NAMEPLATES OR BROTHER P-TOUCH LABELS HAVING 3mm MINIMI IM HEIGHT, BLACK CHARACTERS ON WHITE BACKGROLIND FOR NORMAL POWER ATTACH AL LAMACOID LABELS, UNLESS OTHERWISE DIRECTED, WITH SILICONE CEMENT
- ALL JUNCTION AND PULL BOXES FOR CONDUITS DUCTS AND OTHER RACEWAYS IN 11.2 CONCEALED CEILING AND FLOOR SPACES SHALL PERMANENTLY MARKED USING A BLACK FFLT PEN AS FOLLOWS: (WHERE CFILING SPACE IS PAINTED OUT, PUT MARKING ON THE INSIDE OF COVERPLATES) FOR LIGHTING AND POWER SHOW THE COMPLETE CIRCUIT NUMBER OF
 - FOR ALL COMMUNICATIONS AND FIRE ALARM SHOW THE USAGE (I.E. "FIRE ALARM"; "TELEPHONE").

12. HEIGH LEVEL

13.

14.

17.1

17.2

18.

18.1

18.2

22

23.

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.
LEVEL 19 GENTRE HINE OF DEVICE OD TET UNLEGG NOTED OTHERWIGE.
WALL RECEPTACLES: 300mm

- TELEPHONE OUTLETS: 300mm THERMOSTATS 1520mm
- FIRE ALARM RELLS: 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

UNLESS OTHERWISE DIRECTED, BUILDING WIRE AND CABLE SHALL BE OF COPPER

USE NO WIRE NO SMALLER THAN #12AWG UNLESS OTHERWISE DIRECTED EXCEPT WHERE OTHERWISE DIRECTED OR REQUIRED BY CODE OR OTHER APPI ICABI E REGULATIONS BUILDING WIRE AND CABLE INSULATION SHALL BI

TYPE RW90_CROSS-LINK POLYETHYLENE INSULATED FOR 600V AND RATED NOT ESS THAN 90 DEG. C ALL INTERIOR BRANCH CIRCUIT WIRING SHALL USE ELECTRICAL METALLIC TUBING (FMT). 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 FINAL CONNECTIONS TO TRANSFORMERS, MOTORS, AND OTHER VIBRATING CONDUCTORS FOR LIGHTING AND OTHER BRANCH CIRCUITS SHALL HAVE AMPACITY NOT LESS THAN THE RATING OF THE OVERCLIRRENT DEVICE PROTECTING THE BRANCH CIRCUIT AND SHALL BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 3% FROM THE PANEL BOARD 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 FROM THE ASSOCIATED PANEL BOARD 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. 120V, 1PHASE 20A CIRCUI 0 – 20m[.] #12AWG MIN 20 - 30m: #10AWG MIN OVER 30m: #8 AWG MIN.

26 05 26 GROUNDING AND BONDING

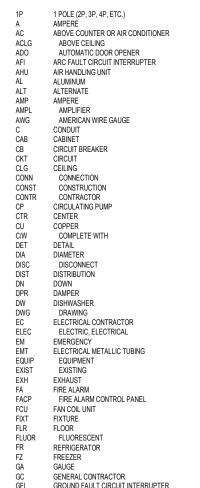
SUPPLY AND INSTALL AL GROUNDING TO CONFIRM WITH THE ONTARIO FI FOTRICAL SAFETY CODE AND INSTRUCTION OF THE INSPECTION AUTHORITY WITH FURTHER REQUIREMENTS AS NOTED HEREIN OR ON DRAWINGS PROVIDE SEPARATE AND PROPERLY SIZE GROUND WIRE AND FITTINGS FOR ALL FLEXIBLE CONDUIT CONNECTIONS. FACH RECEPTACIE AND 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

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.

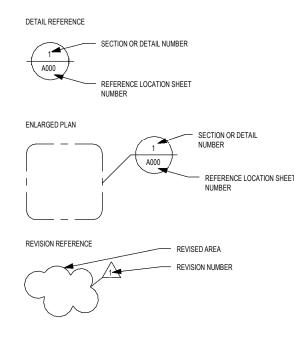
ELECTRICAL ABBREVIATIONS LIST

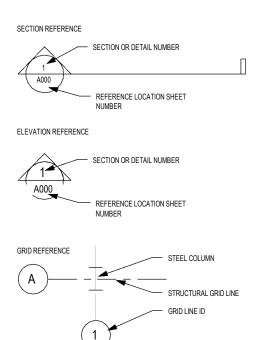


- GROUND FAULT CIRCUIT INTERRUPTER GROUND
- GYP BD GYPSUM BOARD



DRAWING REFERENCE SYMBOLS:





26 05 33 CONDUITS

4.	ALL INTERIOR BRANCH CIRCUIT WIRING SHALL BE IN ELECTRICAL METALLIC
	TUBING (EMT). ALL FEEDERS SHALL BE IN RIGID GALVANIZED STEEL.
-	

- ALL FIRE ALARM CABLING SHALL BE RUN IN EMT CONDUIT. CUT CONDUIT SQUARE USING A SAW OR PIPE CUTTER: DEBURR CUT ENDS. USE CONDUIT HUBS OR SEALING LOCKNUTS FOR FASTENING CONDUITS TO CAST
- BOXES AND FOR FASTENING CONDUITS TO SHEET METAL BOXES IN DAMP OR WET LOCATIONS 28.
- USE 90 DEG BENDS TO MAKE CHANGES IN DIRECTION. CONDUIT BODIES ARE NOT TO BE USE 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
- CONDUITS. EXCEPT SLEEVES AND NIPPLES. INSTALL EXPANSION DEFLECTION JOINTS WHERE CONDUIT CROSSES BUILDING
- EXPANSION JOINTS. CONCEAL CONDUITS IN ALL AREAS EXCEPT IN MECHANICAL AND ELECTRICAL
- ALL CONDUITS SHALL BE INSTALLED PARALLEL TO BUILDING LINES AND BE SOLIDLY SUPPORTED FROM BUILDING STRUCTURE (I.E. SUPPORT FROM 34.
 - DUCTWORK, CEILING SYSTEM, ETC. IS NOT PERMITTED).

26 05 34 BOXES

29.

31

32.

- UNLESS OTHERWISE NOTED OR SPECIFIED HEREIN, INSTALL ALL OUTLETS FLUSH 35. 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
- 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

- ACCEPTABLE MANUFACTURERS: 391 SIEMENS
- SCHNEIDER/SQUARE D, EATON.
- 39.4 SUBSTITUTIONS: NOT PERMITTED CSA C22.2 NO.29 CIRCUIT BREAKER TYPE, LIGHTING AND APPLIANCE BRANCH CIRCUIT PANELBOARD.
- 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
- 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.
 - ENCLOSURE: TYPE 1. UNLESS NOTED OTHERWISE. INSTALL PANELBOARD TO CSA C22.1
- HEIGHT: 1800mm TO TOP OF PANELBOARD: INSTALL PANELBOARD TALLER THAN 1800mm WITH BOTTOM NO MORE THAN 100mm ABOVE FLOOR. PROVIDE ENGRAVED PLASTIC NAMEPLATES. 46.

NOTED OTHERWISE 47.4 ALL RECEPTACLES SHALL BE OF ONE MANUFACTURER 48 LIGHTING SWITCHES:

26 27 26 WIRING DEVICES

47. RECEPTACLES:

48.3 ALL DEVICES SHALL BE OF ONE MANUFACTURER 26 51 13 I UMINAIRES

20 01	
49	LUMINAIRES ARE IND
50	LETTERS WHICH CO
50.	FOR EXACT LOCATIO
F 4	

26 53 50 EMERGENCY LIGHTING UNITS

20 00							
52.	EMERGENCY LIGHTIN WITH SOLID STATE CH LEAD ACID 24VDC BAT WATTAGE IS AS INDIC						
53. 54.	EMERGENCY LIGHTIN ACCEPTABLE MANUF						
55.	APPROVED EQUIVALE BATTERY UNITS SHAL FOR AC BRANCH CIRC						
26 53 00 EXIT SIGNS							

56.	ALL EXIT SIGN
	SHALL CONFO
57.	EXIT SIGNS SI
	SHALL BE SUF
	PROVIDE HOR

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 I OCATE 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 MANUFACTURES: HUBBELL. LEVITON. PASS \$ SEYMOUR OTHER RECEPTACLE TYPES AS INDICATED ON PLANS

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

> DICATED IN THE LUMINAIRE SCHEDULE BY MEANS OF TYPE DRRESPOND TO SIMILAR LETTERS ON PLANS. ON OF CEILING MOUNTED LUMINAIRES, REFER TO FILING PLAN

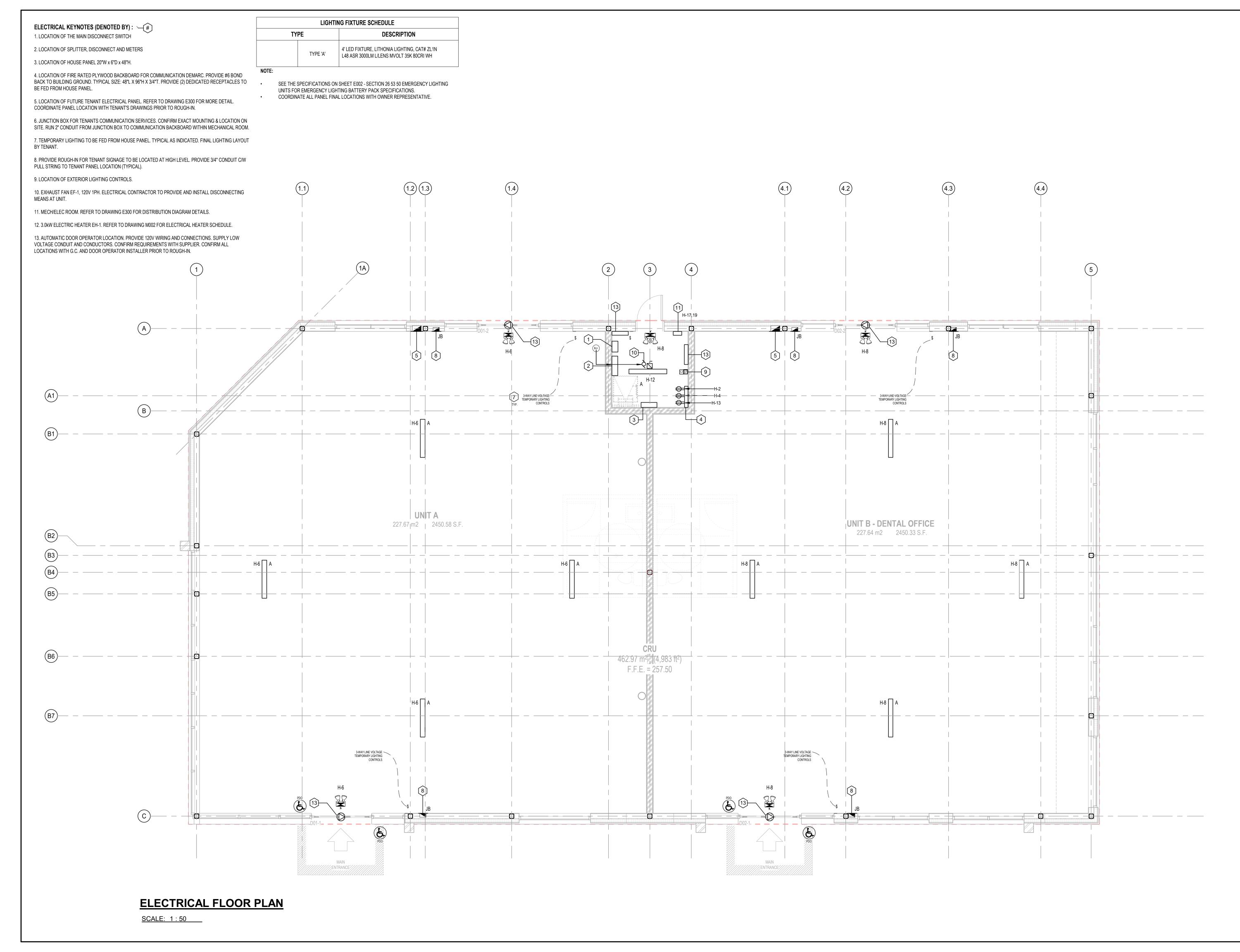
51. PROVIDE LUMINAIRE TYPES AS INDICATED ON LIGHTING SCHEDULE. ALTERNATES MUST BE REVIEWED AND APPROVED PRIOR TO SHOP DRAWING STAGE.

> NG UNITS SHALL BE FOR OPERATION AT 120 OR 347VAC C/W HARGER, STATUS INDICATORS, SEALED MAINTENANCE-FREE TTERIES. PROVIDE PRORATED WARRANTY. BATTERY CATED ON DRAWINGS. NG HEADS. ADJUSTABLE LED TYPE

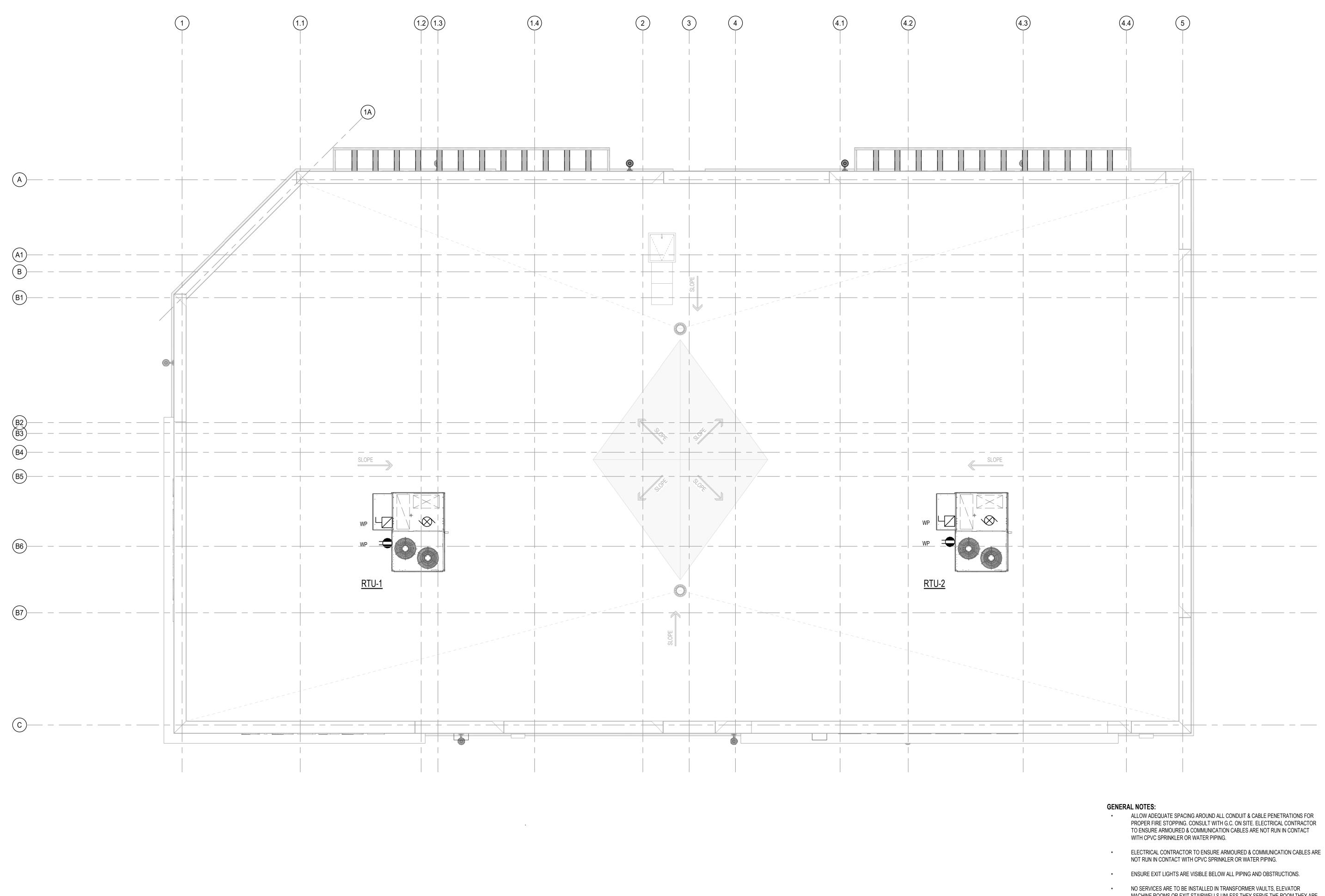
ACTURERS: BEGHELLI, READY-LITE, LUMACELL, OR PRE-L BE DIRECT CONNECTED TO LOCAL AREA LIGHTING CIRCUIT CUIT FAILURE PROTECTION AS REQUIRED BY CODE.

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

Key Plan:		FUTURE VELOPMENT						
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General Notes: IT IS THE RESPONSIBILITY OF THE OWNE CONTRACTOR AND ALL SUB-TRADES TO WHOLE. ALL DISCREPANCIES AND DIME RELATED DOCUMENTS MUST BE REPOR PRIOR TO COMMENCING ANY WORK. DO NOT SCALE DRAWING. 'FOR CONST ORIGINAL CONSULTANTS STAMP AND SI MATERIALS MUST CONFORM WITH APPL CTANDADDS AND DS AND DD AND ADD AND AND AND AND AND AND	BE FAMILIAF NSIONAL ERF TED TO CREA RUCTION DR GNATURE. AL ICABLE CODE	R WITH THE PROJECT AS A RORS ON THE PLANS AND ITIVE STRUCTURES (CS) AWINGS' MUST HAVE L CONSTRUCTION AND						
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Drawn By: D.K.	Scale:	AS INDICATED						
Checked By: W.A. Project Date: JAN 2024	Plot Date	e: APR 03, 2024						
Project No: 2023-102 Drawing No:		Revision						
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Key Plan: Bugseline Bugseline PROPOSED CRU 6 CRU 7 CRU 7 CRU 5 CRU 5	FUTURE EVELOPMENT
Site Plan: North Ar	ow:
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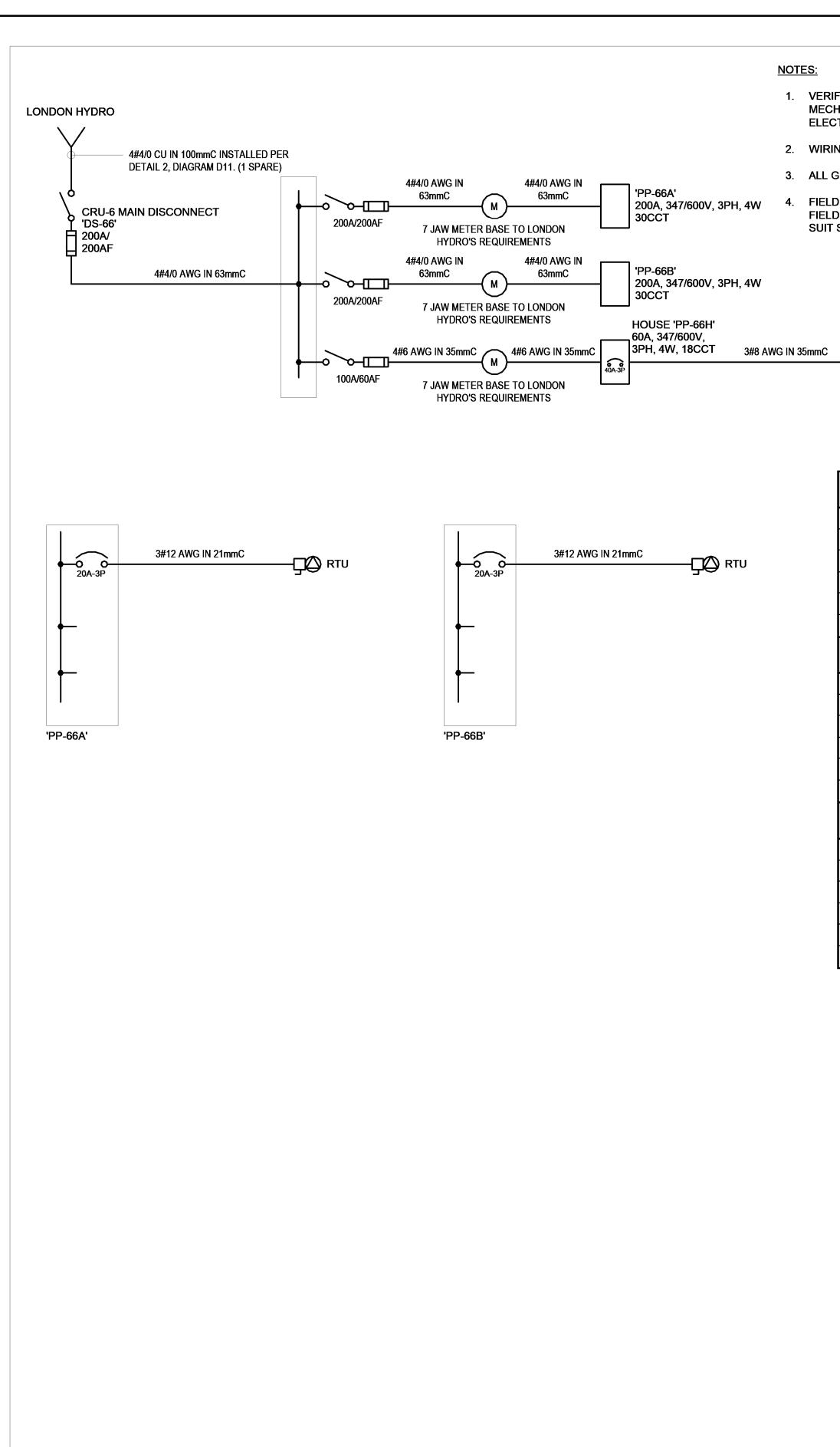
ELECTRICAL ROOF PLAN

SCALE: 1:50

 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).
- 2. 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).
- 3. LOCATION OF EXTERIOR LIGHTING PHOTOCELL.

Key Plan: FUTURE JUSTICE FUTURE PROPOSED CRU 6 FUTURE DEVELOPMENT ERU3 Site Plan: North Arrow:								
Consultant:								
CREATVE STRUCTURES CS@CREATIVESTR.CA								
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								
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CONTRACTOR RESPONSIBILITY FOR SYSTEMS AFFECTED.								
2 Apr 03, 2024 ISSUED FOR TENDER No. Date Revision								
Project:								
DEVELOPMENT CORP 1300 FANSHAWE PARK RD. EAST CRU #6 1300 FANSHAWE PARK RD. EAST. LONDON, ON.								
Drawing Title: ELECTRICAL LAYOUT - ROOF PLAN								
Drawn By: D.K. Scale: AS INDICATED								
Checked By: W.A. Plot Date: APR 03, 2024 Project Date: JAN 2024								
Project No: 2023-102								
Drawing No: Revision								



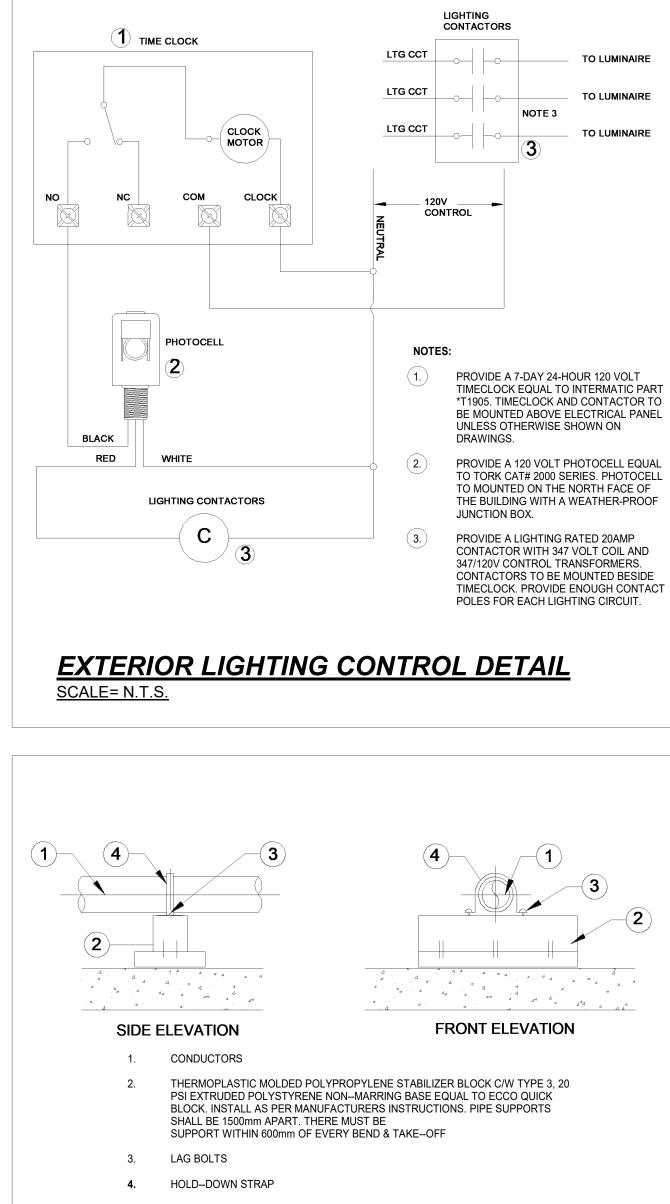
1. VERIFY AND COORDINATE BREAKER SIZES FOR ALL MECHANICAL EQUIPMENT PRIOR TO ORDERING OF ELECTRICAL PANELS.

2. WIRING SHALL BE COPPER UNLESS NOTED OTHERWISE.

 ALL GROUNDING SHALL BE AS PER SECTION 10 OF THE OESC.
 FIELD VERIFY EQUIPMENT DIMENSIONS PRIOR TO ROUGH-IN. FIELD ADJUST EQUIPMENT LOCATIONS AS REQUIRED TO SUIT SITE CONDITIONS.

'TX-62H' 30kVA, 600V - 36 120/208V	4#1/0 AWG IN 53mmC	'PP-62H' 125A, 120/208V,
38		3PH, 4W, 30CCT

LOAD CALCULATI	ON - UNIT 6A							
Area (sq.m)	228							
Base Load (30 W/sq.m):	6,829							
HVAC (W):	18,000							
Misc. (W):	10,000							
Total (W):	35,057							
Tenant Service:	200A, 347/600V							
LOAD CALCULATION - UNIT 6B								
Area (sq.m)	228							
Base Load (30 W/sq.m):	6,829							
HVAC (W):	18,000							
Misc. (W):	10,000							
Total (W):	35,057							
Tenant Service:	200A, 347/600V							
LOAD CALCULAT	ON - TOTAL							
Area (sq.m)	455							
Base Load (30 W/sq.m):	13,658							
HVAC (W):	36,000							
Misc. (W):	20,000							
Total (W):	70,114							
Tenant Service:	200A, 347/600V							



NOTES:

CONDUCTORS INSTALLED ON ROOF MUST BE IN RIGID CONDUIT WHEN LENGTH EXCEEDS 3000mm (10').

ROOF CONDUCTOR INSTALLATION SCALE= N.T.S.

			HO	ME F	PANEL SC	HEDI	JLE			
PANEL: PP-2H						MO	JNTING: S	URFA	CE	
VOLTAGE: 120/208										
PAHASE: 3 PHASE, 4 WIRE										
MAINS: 100A										
LOCATION: ELEC RM.										
DESCRIPTION	WIRE SIZE	VA	BREAK	ER	Ø	BF	REAKER	VA	WIRE SIZE	DESCRIPTION
EXTERIOR LIGHT			20A	1	А	2	20A			EXTERIOR LIGHT
EXTERIOR LIGHT			20A	3	В	4	20A			EXTERIOR LIGHT
EXTERIOR LIGHT			20A	5	С	6	20A			INTERIOR LIGHT
PDO			20A	7	А	8	20A			INTERIOR LIGHT
INTERIOR LIGHTS			20A	9	В	10				
EF-1			20A	11	С	12				
HEATER			20A	13	А	14				
HVAC RECEP			20A	15	В	16				
HVAC RECEP			20A	17	С	18				
				19	А	20				
				21	В	22	20A			SPARE
				23	С	24	20A			SPARE

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