LEGEND

- LED LIGHT FIXTURE – LETTER DENOTES TYPE
- LED, CEILING FIXTURE – LETTER DENOTES TYPE
- LED, LIGHT FIXTURE 24/7 'ON' NIGHT LIGHT FIXTURE
- LIGHT STANDARD
- LED WALL FIXTURE – LETTER DENOTES TYPE
- EXIT LIGHT FIXTURE WALL OR CEILING MOUNTED, PICTOGRAM TYPE – SHADED AREA DENOTES FACE
- EMERGENCY LIGHTING TYPE 1 (SINGLE HEAD)& TYPE 2. (DOUBLE HEADS), LED, 24V, 7W PER HEAD. BAGHELLI# BTMR-MR16-LED-7W/HEAD-24V OR APPROVED EQUAL EXCEPT FOR APPARATUS BAY & EMS BAY AREAS. BAGHELLI# SEA SERIES-MR16-LED-7W/HEAD-WEATHERPROOF-NEMA 4X OR APPROVED EQUAL SUITABLE FOR WET LOCATIONS SHALL BE PROVIDED FOR APPARATUS BAY & EMS BAY AREAS.
- WP WP EMERGENCY LIGHTING TYPE 1 (SINGLE HEAD)& TYPE 2. (DOUBLE HEADS), LED, 24V, 7W PER HEAD, WEATHERPROOF. BAGHELLI# SEA SERIES-MR16-LED-7W/HEAD-WEATHERPROOF-NEMA 4X OR APPROVED EQUAL SUITABLE FOR WET LOCATIONS.
- EMERGENCY LIGHTING BATTERY UNIT, 24V, (BAGHELLI#NOVA-NV-24-WATTAGE AS SHOWN ON DRAWINGS OR APPROVED EQUAL), SUITABLE FOR 120V INPUT VOLTAGE UNLESS NOTED OTHERWISE.
- TR STANDARD 15A 120V 1P DUPLEX RECEPTACLE. 'TR' DENOTES TAMPER RESISTANT TYPE.
- TR STANDARD DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER. 'TR' DENOTES TAMPER RESISTANT TYPE.
- TR STANDARD DUPLEX RECEPTACLE WITH SEPARATE NEUTRAL AND GROUND WIRE PER CIRCUIT. 'TR' DENOTES TAMPER RESISTANT TYPE.
- STANDARD DUPLEX RECEPTACLE 15A/20A (SPLIT FEED).
- STANDARD DUPLEX RECEPTACLE (SPLIT FEED) MOUNTED ABOVE COUNTER.
- TR G.F.I DUPLEX RECEPTACLE. 'TR' DENOTES TAMPER RESISTANT TYPE.
- TR G.F.I DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER. 'TR' DENOTES TAMPER RESISTANT TYPE.
- 15A QUAD. RECEPTACLE WITH SEPARATE NEUTRAL AND GROUND WIRE PER CIRCUIT. 'TR' DENOTES TAMPER RESISTANT.
- G.F.I QUAD. RECEPTACLE MOUNTED ABOVE COUNTER. 'TR' DENOTES TAMPER RESISTANT.
- C CEILING MOUNTED DUPLEX RECEPTACLE
- TR T 15A/20A T-SLOT RECEPTACLE ON 20A CIRCUIT. 'TR' DENOTES TAMPER RESISTANT.
- 2 L5-20R TWIST LOCK RECEPTACLE BLACK IN COLOUR WITH SEPARATE NEUTRAL AND GROUND WIRE PER CIRCUIT FOR FEEDING POWER TO UPS OF I.T. RACK.
- T L5-20RA, 20A RECEPTACLE BLACK IN COLOUR WITH SEPARATE NEUTRAL AND GROUND WIRE PER CIRCUIT FOR FEEDING POWER TO UPS OF I.T. RACK.
- RR 120V, 15A CEILING MOUNTED EXTENSION CORD REEL C/W DUPLEX RECEPTACLE AND OUTLET BOX (HUBBELL# HBL45123R + HBL5252GY) C/W SUPPORTING SYSTEM. CO-ORDINATE ON SITE FOR EXACT LOCATION/ MORE INFORMATION AND PROCEED ACCORDINGLY.
- TAMPER RESISTANT USB CHARGER DUPLEX RECEPTACLE, 125V, 15A, 2-POLE,3W, 5-15R (HUBBELL# USB 15X2 OR ATTOW HART (COOPER# TR7745)
- 2 3-POLE, 250V RECEPTACLE 14-20R FOR UPS RACK
- 3 3-POLE, 250V RECEPTACLE 14-30R FOR DRYER
- 5 3-POLE, 250V RECEPTACLE 14-50R FOR RANGE
- SPECIAL OUTLET AS NOTED
- $ SINGLE POLE LIGHT SWITCH UNLESS NOTED OTHERWISE.
- $k KEYED SWITCH TO OPEN WASHROOM DOOR IN CASE OF EMERGENCY
- $3 THREE WAY LIGHT SWITCH
- $4 FOUR WAY LIGHT SWITCH
- $ 1-BUTTON LOW VOLTAGE DLM TYPE LIGHT SWITCH (TYP.) UNLESS NOTED OTHERWISE.
- $4 4-BUTTON LOW VOLTAGE DLM TYPE LIGHT SWITCH (TYP.)
- 1 ELECTRIC HEATING UNIT, NO. DENOTES TYPE
- DOOR OPERATOR PUSH BUTTON UNLESS NOTED OTHERWISE
- REX REQUEST TO EXIT DEVICE
- PL PUSH TO LOCK BUTTON
- PANELBOARD
- EF-3 F P S MOTOR STARTER. LETTER F DENOTES FLUSH MTD, P= PILOT LIGHT, S=SURFACE MTD. EF-3 = EQUIPMENT CONTROLLED BY STARTER
- WP DISCONNECT SWITCH – WP DENOTES WEATHERPROOF
- COMBINATION MOTOR STARTER AND DISCONNECT
- MOTOR OUTLET AS NOTED
- MOTOR & DISCONNECT SWITCH TO SUIT
- 1 RECESSED P.A. SPEAKER CEILING MOUNTED IN CASE OF DRYWALL & T-BAR CEILINGS, SURFACE MOUNTED IN EXPOSED CEILINGS. REFER SCHEMATIC DIAGRAMS FOR MORE INFORMATION.
- 2 RECESSED P.A. SPEAKER RECESSED, WALL MOUNTED. REFER SCHEMATIC DIAGRAMS FOR MORE INFORMATION.
- 3 SURFACE MOUNTED P.A. SPEAKER. REFER SCHEMATIC DIAGRAMS FOR MORE INFORMATION.
- 4 EXTERIOR TYPE P.A. SPEAKER, WALL MOUNTED. REFER SCHEMATIC DIAGRAMS FOR MORE INFORMATION.
- PC PA CONSOLE/MICROPHONE. REFER SCHEMATIC DIAGRAMS FOR MORE INFORMATION.
- MIC MICROPHONE OUTLET
- OS1 WATT STOPPER LMDX-100 OCCUPANCY/VACANCY SENSOR, DUAL TECH WALL CORNER MOUNT/CEILING MOUNT C/W ROOM CONTROLLERS AS REQUIRED. LIGHTING CONTROL TO BE MANUAL-ON, AUTO-OFF.
- OS2 WATT STOPPER DW-100-120 DUAL TECHNOLOGY WALLSWITCH SENSOR LINE VOLTAGE (AUTO-ON, AUTO-OFF).
- OS3 WATT STOPPER LMUC-100 OCCUPANCY SENSOR, ULTRA SONIC CEILING MOUNT C/W ROOM CONTROLLERS AS REQUIRED.
- OS4 WALL MOUNTED DUAL TECHNOLOGY TWO RELAY LINE VOLTAGE OCCUPANCY SENSOR. WATT STOPPER DW-200-120 (MANUAL-ON, AUTO-OFF)
- OS5 WATT STOPPER LMDC-100 OCCUPANCY/VACANCY SENSOR, DUAL TECH CEILING MOUNT, 360 DEGREES C/W ROOM CONTROLLERS AS REQUIRED. LIGHTING CONTROL TO BE MANUAL-ON, AUTO-OFF.
- OS6 WATT STOPPER LMDX-100 VACANCY SENSOR, DUAL TECH WALL CORNER MOUNT/CEILING MOUNT C/W ROOM CONTROLLERS AS REQUIRED.
- OS7 WATT STOPPER LMDC-100 OCCUPANCY/VACANCY SENSOR, DUAL TECH CEILING MOUNT, 360 DEGREES C/W ROOM CONTROLLERS AS REQUIRED. LIGHTING CONTROL TO BE AUTO-ON, AUTO-OFF.
- DLS WATT STOPPER LMLS-500 OPEN LOOP DAYLIGHT SENSOR.
- BATTERY OPERATED CLOCK (12" DIA, SEMI FLUSH, BATTERY OPERATED, BLACK/RED 24 HOUR DIAL AND GREY CASE WITH SYMMETY HANDS. EDWARDS MODEL# 1885A SERIES OR SIMPLEX.
- AV CEILING MOUNTED A/V OUTLET FOR PROJECTOR
- VGA MONITOR OUTLET C/W 21 mmC. TO CEILING MOUNTED AV OUTLET.
- CABLE TV OUTLET C/W 21MM CONDUIT UPTO CABLE TRAY IN NEAREST CORRIDOR.
- CCL COUNTDOWN CLOCK-FIRE STATION ALERT SYSTEM

LEGEND (CONTD.)

- F RECESSED FLOOR BOX C/W COVER AND DEVICES AS PER LAYOUT DWGS. WIREMOLD RFB-SS SERIES, FINISH TO ARCHITECT SELECTION.
- EMERGENCY PUSH BUTTON (CAMDEN 5/8" MUSHROOM, STAINLESS STEEL FACEPLATE, PUSH/PULL, 'PRESS FOR ASSISTANCE' : CM-450R/12) OF CALL FOR ASSISTANCE SYSTEM (CALL FOR ASSISTANCE SYSTEM SHALL BE CAMDEN# CX-WEC10). THE EMERGENCY PUSH BUTTON SHALL BE MOUNTED ON A SINGLE GANG BOX. REFER FLOOR PLAN DWGS. FOR MORE INFORMATION.
- SINGLE GANG LED ANNUNCIATOR C/W SOUNDER, 'ASSISTANCE REQUESTED' (CAMDEN: CM-AF501SO) OF CALL FOR ASSISTANCE SYSTEM (CALL FOR ASSISTANCE SYSTEM SHALL BE CAMDEN# CX-WEC10). REFER FLOOR PLAN DWGS. FOR MORE INFORMATION.
- S SINGLE GANG DOME LIGHT WITH SOUNDER. 'ASSISTANCE REQUIRED' (CAMDEN: CM-AF140SO) OF CALL FOR ASSISTANCE SYSTEM (CALL FOR ASSISTANCE SYSTEM SHALL BE CAMDEN# CX-WEC10). REFER FLOOR PLAN DWGS. FOR MORE INFORMATION.
- WG FIRE ALARM MANUAL STATION C/W PLASTIC COVER WITH LOCAL HORN – LETTERS WG DENOTES C/W WIREGUARD
- 2 G AUTOMATIC FIRE DETECTOR RATE OF RISE 135 DEG. F. UNLESS NOTED OTHERWISE – NUMBER DENOTES ZONE, LETTER G DENOTES GUARD
- 190° AUTOMATIC FIRE DETECTOR – FIXED TEMPERATURE AS NOTED FIRE ALARM HORN. 'S' DENOTES C/W STROBE LIGHT, WG – WIRE GUARD
- PHOTO ELECTRIC SMOKE DETECTOR
- ALARM DUCT TYPE SMOKE DETECTOR
- 120V AC 3-IN-1 LED STROBE SMOKE ALARM/CO (THREE IN ONE) C/W STROBE & 10 YEAR SEALED BATTERY BACK-UP (KIDDE#P4010ACLEDSCOCA).
- E.O.L. END-OF-LINE RESISTOR
- S FIRE ALARM HORN. 'S' DENOTES C/W STROBE LIGHT.
- S FIRE ALARM STROBE.
- FS FLOW SWITCH-SPRINKLER SYSTEM
- SV SUPERVISORY ZONE SWITCH-SPRINKLER SYSTEM
- CO 120V CARBON MONOXIDE DETECTOR C/W BATTERY BACK-UP AND AUXILIARY CONTACTS TO INITIATE A DEDICATED SUPERVISORY ZONE IN FIRE ALARM SYSTEM.
- TELEPHONE/DATA OUTLET C/W JACK & CABLE & 21mm EMT CONDUIT TO I.T. ROOM AT MEZZANINE LEVEL. REFER SPECIFICATIONS FOR MORE INFORMATION.
- 2 DATA OUTLET C/W JACK & CABLE & 21mm EMT CONDUIT TO I.T. ROOM AT MEZZANINE LEVEL. NO. DENOTES NUMBER OF DATA DROPS. REFER SPECIFICATIONS FOR MORE INFORMATION.
- TELEPHONE OUTLET C/W JACK & CABLE & 21mm EMT CONDUIT TO I.T. ROOM AT MEZZANINE LEVEL. REFER SPECIFICATIONS FOR MORE INFORMATION.
- WAP CEILING MOUNTED WIRELESS ACCESS POINT CONSISTING OF A DATA DROP C/W 27MM CONDUIT & WIRING TO I.T. ROOM AT MEZZANINE LEVEL. REFER SPECIFICATIONS FOR MORE INFORMATION.
- ES DOOR ELECTRIC STRIKE
- KO KEY OVERRIDE SWITCH TO OVERRIDE ELECTRIC STRIKE
- KP SECURITY KEY PAD C/W 16MM CONDUIT SECURITY PANEL IN I.T. ROOM.
- CR CARD READER C/W 16MM CONDUIT UPTO CABLE TRAY IN NEAREST CORRIDOR UNLESS NOTED OTHERWISE.
- CCTV CCTV CAMERA C/W 27mm CONDUIT UPTO I.T. ROOM
- CCTV CCTV MONITOR C/W 27mm CONDUIT UPTO UPTO DVR PANEL/CCTV RACK
- M SECURITY SYSTEM- MOTION SENSOR, WALL MOUNTED C/W 27MM CONDUIT UPTO CABLE TRAY IN NEAREST CORRIDOR
- MDG SECURITY SYSTEM- MOTION SENSOR/GLASS BREAK COMBO, 360 DEGREE CEILING MOUNTED, WALL MOUNTED C/W 27MM CONDUIT UPTO SECURITY PANEL
- DH DOOR HOLD OPEN DEVICE C/W CONDUIT AND WIRING
- DC SECURITY SYSTEM DOOR CONTACT C/W 16MM CONDUIT UPTO SECURITY PANEL VIA A JUNCTION BOX IN NEAREST ACCESSIBLE CEILING SPACE.
- RDC SECURITY SYSTEM ROOF HATCH DOOR CONTACT C/W 27MM CONDUIT UPTO CABLE TRAY IN NEAREST CORRIDOR
- OHD SECURITY SYSTEM OVERHEAD DOOR CONTACT C/W 16MM CONDUIT UPTO SECURITY PANEL VIA A JUNCTION BOX IN NEAREST ACCESSIBLE CEILING SPACE.
- PB PUSH BUTTON FOR DOOR BELL (STI STOPPER STATION SERIES, NO TEXT, SS2XY0, UNIVERSAL STOPPER LABEL SHELL, MOMENTARY (ILLUMINATED), ENGLISH, C/W ACCESSORIES AS REQUIRED.
- DB 120V DOOR BELL (EDWARDS# STRAP MOUNTED BELL/BUZZER, MODEL-762, 590 SERIES TRANSFORMER, #593 MOUNTING PLATES FOR 590 SERIES TRANSFORMERS, TRANSFORMER MOUNTING PLATES, SINGLE AND MULTIPLE GANG UTILITY BOXES & ALL ACCESSORIES REQUIRED FOR MOUNTING & FULLY OPERATIONAL SYSTEM.
- AB ARMING BUTTON C/W 27MM CONDUIT UPTO CABLE TRAY IN NEAREST CORRIDOR
- B SECURITY SYSTEM BUZZER C/W 27MM CONDUIT UPTO CABLE TRAY IN NEAREST CORRIDOR
- PH PHOTOCELL
- T THERMOSTAT
- ACK ACKNOWLEDGE BUTTON-FIRE ALERT SYSTEM.
- CCL COUNTDOWN CLOCK-FIRE ALERT SYSTEM.
- REX REQUEST TO EXIT PUSH BUTTON/BAR: SHALL RELEASE ELECTRIC STRIKE OF RESPECTIVE DOOR.
- PG MAINTAINED TWIST RELEASE RED COLORED MUSHROOM KEYLESS TYPE EMERGENCY PUSH BUTTON FOR SHUT DOWN OF POWER FOR GAS SOLENOID VALVE IN CASE OF EMERGENCY. PROVIDE SUITABLE LABEL ON THE PUSH BUTTON.
- J WALL MOUNTED J-HOOK IN CEILING
- 53 MM(2") CONDUIT SLEEVE THRU WALL ABOVE CEILING
- SC SPEED CONTROLLER OF CEILING FAN
- TRF. DENOTES TRANSFORMER
- HWT DENOTES DOMESTIC HOT WATER TANK
- RH DENOTES RANGE HOOD
- RG DENOTES RANGE
- DW DENOTES DISHWASHER
- MW DENOTES MICROWAVE
- MD DENOTES MOTORIZED DAMPER
- PT DENOTES PIPE HEAT TRACING
- WG DENOTES WIRE GUARD
- FACP DENOTES FIRE ALARM CONTROL PANEL
- FAAP DENOTES RECESSED LED TYPE OF FIRE ALARM ANNUNCIATOR PANEL C/W PASSIVE GRAPHICS
- FMP DENOTES RECESSED FIRE ALARM MONITORING PANEL. PROVIDE A DEDICATED PHONE LINE FOR THIS MONITORING PANEL AND PROVIDE 1-21MM CONDUIT FROM THIS PANEL TO FACP.
- DO DENOTES DOOR OPERATOR
- FGE DENOTES FRIDGE
- FZR DENOTES FREEZER
- EFC DENOTES POWER FOR ELECTRONIC FAUCET/PLUMBING FIXTURES
- FSA DENOTES FIRE STATION ALERT SYSTEM

LEGEND (CONTD.)

- ATS DENOTES AUTOMATIC TRANSFER SWITCH
- H.D. DENOTES HEAT DETECTOR
- S.D. DENOTES SMOKE DETECTOR
- P.S. DENOTES PULL STATION
- CUH DENOTES CABINET UNIT HEATER
- UH DENOTES UNIT HEATER
- WSH DENOTES WASHER
- DR DENOTES DRYER
- WP DENOTES WEATHER PROOF.
- VVT DENOTES VARIABLE VOLUME TEMPERATURE.
- HD DENOTES HAND DRYER
- CUH DENOTES CABINET UNIT HEATER
- A/V DENOTES AUDIO/VISUAL SYSTEM
- VC DENOTES LOCAL VOLUME CONTROL OF P.A. SPEAKERS
- M&V DENOTES METERING & VERIFICATION SYSTEM
- O/H DOOR DENOTES OVERHEAD DOOR
- CF-1 DENOTES CEILING FAN#1 (TYP.)
- TRF. DENOTES TRANSFORMER
- FC-1 DENOTES FAN COIL#1 (TYP.)
- FSA DENOTES FIRE STATION ALERT SYSTEM
- LVMSP DENOTES LV MASTER SWITCH PANEL
- 1A-1 DENOTES EQUIPMENT FED FROM PANEL '1A' AND BREAKER #1
- 1A-2.1 DENOTES EQUIPMENT FED FROM PANEL '1A' AND BREAKER #2 AND CONTROLLED BY SWITCH #1
- 1A-3.R1 DENOTES EQUIPMENT FED FROM PANEL '1A' AND BREAKER #3 AND CONTROLLED VIA RELAY-R1.
- 1A-5/7.R2(2P) DENOTES EQUIPMENT FED FROM PANEL '1A' AND 2-POLE BREAKER #5/7 AND CONTROLLED VIA 2-POLE RELAY-R2.
- 1/E101 DETAIL 1 ON DRAWING E101
- 1 NOTE PERTAINING TO SPECIFIC ITEM OR AREA

NOTES FOR LEGEND:

1. THE WEATHERPROOF RECEPTACLES SHALL BE PROVIDED WITH COVER PLATES SUITABLE FOR WET LOCATIONS WHETHER OR NOT A PLUG IS INSERTED INTO THE RECEPTACLE (IN-USE COVER PLATE) AND MARKED # EXTRA DUTY# AS PER RULE 26-702(2) OF OESC.
2. 'T' INDICATED BESIDE SYMBOL OF A DUPLEX RECEPTACLE DENOTES THAT THE RECEPTACLE SHALL BE T-SLOT ON 20A CCT.
3. 'C' INDICATED BESIDE SYMBOL OF A DEVICE DENOTES THAT THE DEVICE SHALL BE CEILING MOUNTED.
4. 'TR' INDICATED BESIDE SYMBOL OF A DUPLEX RECEPTACLE DENOTES THAT THE RECEPTACLE SHALL BE TAMPER RESISTANT TYPE OF RECEPTACLE.
5. SLASH LINE SHOWN ON SYMBOL OF A DEVICE (RECEPTACLE, DATA OUTLET, TELEPHONE OUTLET OR DATA/PHONE OUTLET) MEANS THAT THE DEVICE/OUTLET IS TO BE LOCATED ABOVE COUNTER.

HEATER SCHEDULE

TYPE	DESCRIPTION
A	500W 120V BASEBOARD HEATER C/W REMOTE THERMOSTAT DIMPLEX CAT. # AF6F205 STELPRO, OUELLETT
B	750W 120V BASEBOARD HEATER C/W REMOTE THERMOSTAT DIMPLEX CAT. # AF6F307 STELPRO, OUELLETT
C	1250W 120V BASEBOARD HEATER C/W REMOTE THERMOSTAT DIMPLEX CAT. # AF6F512 STELPRO, OUELLETT
D	2000W, 208V, 1-PH. BASEBOARD HEATER C/W REMOTE THERMOSTAT DIMPLEX CAT. # AF6F820 STELPRO, OUELLETT
E	2250W 208V, 1-PH. SURFACE MOUNTED FLOW HEATER C/W REMOTE THERMOSTAT. DIMPLEX CAT. # RFI830D31-RFIP8CW STELPRO, OUELLETT
F	2250W 208V, 1-PH. SEMI RECESSED FORCED FLOW HEATER TO BE MOUNTED IN T-BAR CEILING C/W MOUNTING ACCESSORIES, BRACKETS, SUPPORTS, HARDWARE & REMOTE THERMOSTAT. DIMPLEX CAT. # RFI830D31 STELPRO, OUELLETT
G	3000W 208V, 1-PH. SEMI RECESSED FORCED FLOW HEATER C/W REMOTE THERMOSTAT. DIMPLEX CAT. # RFI840D31 STELPRO, OUELLETT
H	6000W 208V, 1-PH. SURFACE MOUNTED FORCED FLOW HEATER C/W REMOTE THERMOSTAT DIMPLEX CAT. # RFF86021-RFFP8CW STELPRO, OUELLETT
J	1000W 120V BASEBOARD HEATER C/W BUILT-IN THERMOSTAT CHROMALOX CAT. # AF6F410 STELPRO, OUELLETT
K	3000W 208V, 1-PH. WALL SURFACE MOUNTED FORCED FLOW HEATER C/W REMOTE THERMOSTAT. DIMPLEX CAT. # RFI840D31-RFP8DW STELPRO, OUELLETT
UH-1	25.0KW 208V, 3-PH. ELECTRICAL INDUSTRIAL UNIT HEATER, SUSPENDED FROM CEILING TYPE (WAREHOUSE TYPE) C/W REMOTE THERMOSTAT & COMPLETE MOUNTING ACCESSORIES AS REQUIRED. OUELLETT# OAS25038+MOUNTING ACCESSORIES STELPRO, DIMPLEX
UH-2	25.0KW 208V, 3-PH. ELECTRICAL INDUSTRIAL UNIT HEATER, SUSPENDED FROM CEILING TYPE (WAREHOUSE TYPE) C/W REMOTE THERMOSTAT & COMPLETE MOUNTING ACCESSORIES AS REQUIRED. OUELLETT# OAS25038+MOUNTING ACCESSORIES STELPRO, DIMPLEX

NOTES:

1. COORDINATE WITH MECHANICAL DRAWINGS/MECHANICAL TRADE FOR EXACT LOCATION OF REMOTE THERMOSTATS PRIOR TO ROIGH-INS.

LUMINAIRE SCHEDULE

L2	120V, 4" DIA LED DOWN LIGHT FIXTURE, 7.0W, 801 LUMENS, 3000K, DIMMING DRIVER, WET LOCATION C/W MOUNTING ACCESSORIES AS REQUIRED. ORBIT# RIM-R-30K-7W-60D-WH-NC-120V-WET SENSO ARTEMIS, COOPER, ACUITY
L2A	6" HIGH, 3" WIDE, 1" DEEP WALL RECESSED LED (RED LIGHT EMITTING LIGHT FIXTURE), 3.0W, 352 LUMENS, 120V DRIVER. FINISH TO ARCHITECT'S SELECTION. SOLERA# DOMI-RED LIGHT EMISSION-3WLED-120V-R-CPL-120V AXISSTEPLIGHT, COOPER, ACUITY
L2B	120V, 2" DIA LED DOWN LIGHT FIXTURE, 6.7W, 516 LUMENS, 3000K, DIMMING DRIVER C/W MOUNTING ACCESSORIES AS REQUIRED. HEW# 2DR-L5-830-DIM-OW-OF-CS-120V SENSO ARTEMIS, COOPER, ACUITY
L2C	120V, 4" DIA LED DOWN LIGHT FIXTURE, 5.0W, 501 LUMENS, 3000K, DIMMING DRIVER, WET LOCATION C/W MOUNTING ACCESSORIES AS REQUIRED. ORBIT# RIM-R-30K-5W-60D-WH-NC-120V-WET SENSO ARTEMIS-WET, COOPER, ACUITY
L3	NOT USED
L4	LED TAPE LIGHT FIXTURE (LENGTH TO COVER ENTIRE LENGTH AS SHOWN ON DRAWINGS. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR EXTENT OF APPLICATION AND PROCEED ACCORDINGLY), 1.5W/FT., 117 LUMENS/FT., 3000K, C/W CHANNELS, POWER SUPPLIES AS REQUIRED, TRANSFORMERS AS REQUIRED, 120V DRIVERS AS REQUIRED. SUITABLE FOR UNDER CABINET MOUNTING. C/W ALL MOUNTING ACCESSORIES AS REQUIRED. CRI: 90+, FINISH TO ARCHITECT'S SELECTION DIODE# D1-24V-BLBSC1-30-016-CEC-120V-LENGTH TO COVER ENTIRE LENGTH AS PER DRAWINGS/ARCHITECTURAL DRAWINGS-FINISH TO ARCHITECT'S SELECTION-COMPLETE MOUNTING ACCESSORIES-CHANNELS-TRANSFORMERS-TRANSFORMERS-120V DRIVERS-90+ CRI COOPER, LUMINII-KENDO, JUNO
L5	4' LONG LED PENDANT LIGHT FIXTURE (SUSPENDED BY AIRCRAFT CABLES. BOTTOM OF LIGHT FIXTURE TO BE @ 3.1M), 15.9W, 2233 LUMENS., 3000K, 120V DRIVER, FINISH TO ARCHITECT'S SELECTION. C/W LOUVERS- CRI: 90+. JESCO# LINSL-E-48-3000K-LOU-120V-LOUVERS-FINISH TO ARCHITECT'S SELECTION-90+ COOPER, AXIS LIGHTING, MARK ARCHITECTURAL SLOT 4 SERIES
L5A	4' LONG LED PENDANT LIGHT FIXTURE (SUSPENDED BY AIRCRAFT CABLES. BOTTOM OF LIGHT FIXTURE TO BE @ 3.1M), 28.3W, 3812 LUMENS., 3000K, 120V DRIVER, FINISH TO ARCHITECT'S SELECTION. C/W LOUVERS- CRI: 90+. JESCO# LINSL-D-B-48-3000K-LOU-120V-LOUVERS-FINISH TO ARCHITECT'S SELECTION-90+ COOPER, AXIS LIGHTING, MARK ARCHITECTURAL SLOT 4 SERIES
L6	NOT USED
L7	4' LONG, SURFACE (CEILING/WALL) MOUNTED LED LIGHT FIXTURE, 31.9W, 4445 LUMENS, 120V DRIVER, 4000K, HEW# 39-4-L52 (L43)-840-A-DIM-120V SIGNIFY, COOPER, ACUITY
L7A	4' LONG, SURFACE MOUNTED LED LIGHT FIXTURE, 33.1W, 4604 LUMENS, 120V DRIVER, 4000K, HEW# 39-4-L52 (L45)-840-A-DIM-120V SIGNIFY, COOPER, ACUITY
L7B	4' LONG, SURFACE (MOUNTED ON UNISTRUT SUSPENSION SYSTEM) MOUNTED LED LIGHT FIXTURE, 16.5W, 2191 LUMENS, 120V DRIVER, 4000K, JESCO# STEP-E-LINSL-D-48-4000K-OP-120V COOPER, AXIS LIGHTING, MARK ARCHITECTURAL SLOT 4 SERIES
L8A	4' LONG LED RECESSED LIGHT FIXTURE IN T-BAR CEILING, 15.9W, 2233 LUMENS., C/W LOUVERS, 3000K, 120V DRIVER, FINISH TO ARCHITECT'S SELECTION. CRI: 90+ JESCO# LINSL-RECESSED IN T-BAR CEILING-E-48-LOU-3000K-T GRID KIT-120V-CRI: 90+ FINISH TO ARCHITECT'S SELECTION COOPER, AXIS LIGHTING, MARK ARCHITECTURAL SLOT 4 SERIES
L8B	4' LONG LED PENDANT LIGHT FIXTURE (SUSPENDED BY AIRCRAFT CABLES. BOTTOM OF LIGHT FIXTURE TO BE @ 5.0M A.F.F.), 24.8W, 4156 LUMENS., 3000K, 120V DRIVER, LOUVERS, FINISH TO ARCHITECT'S SELECTION. CRI: 90+. JESCO# LINSL-A-48-3000K-LOU-120V-LENS-FINISH TO ARCHITECT'S SELECTION-90+ COOPER, AXIS LIGHTING, MARK ARCHITECTURAL SLOT 4 SERIES
L8C	SAME AS TYPE-L8A EXCEPT THAT LIGHT FIXTURE L8C TO BE RECESSED IN DRYWALL CEILING.
L8D	SAME AS TYPE-L8A EXCEPT THAT LIGHT FIXTURE SHALL BE 4000K.
L9	8' LONG LED SURFACE MOUNTED LIGHT FIXTURE,128.8W, 8055 LUMENS, 4000K, 120 DRIVER. LIGHT FIXTURES TO BE MOUNTED SO AS TO HAVE A CONTINUOUS RUN. SOLERA# ZRR-PM-66-8-SYM-4K-XX-PC-WET-120V COOPER, LUMENWERX LIGHTING, HOLOPHANE
L10	NOT USED
L11	LED WALL MOUNTED FLOOD LIGHT TO BACKLIGHT WINDOWS, 35W, 126 LUMENS/WATT, IP66, 120V DRIVER, FINISH TO ARCHITECT'S SELECTION, MOUNTING OPTION TO SUIT APPLICATION, JUNCTION BOXES, COMPLETE MOUNTING ACCESSORIES2. MOUNTED @ 11.0M A.F.F. (COORDINATE ON SITE FOR EXACT MOUNTING HEIGHT FOR OPTIMUM RESULTS), 3000K. NLS# NV-F1-85-16L-35W-30K-TM/KM (COORDINATE ON SITE FOR MOUNTING OPTION TO SUIT)-120V-JUNCTION BOXES-MOUNTING ACCESSORIES-FINISH TO ARCHITECT'S SELECTION SIGNIFY, COOPER, ACUITY
MA	960MM HIGH, LANTERN TYPE LED LIGHTING STANDARD (56.0W, 3522 LUMENS) C/W 3.47M HIGH STEEL STRAIGHT POLE ON 760MM ABOVE GRADE CONCRETE BASE (TOTAL HEIGHT OF THE LIGHT STANDARD TO BE 5.49M ABOVE GRADE), SINGLE HEAD C/W 208V DRIVER. 3000K. POLE AND LUMINAIRE SHALL HAVE FINISH AS PER ARCHITECT SELECTION. NLS# DMR-1-T3-MO-32L-53-30K8-HSS-RO-AM-PT. B0-U0-G1 COOPER, LUMEC RA856 & BALTIMORE POLE, ACUITY PUCL3 SERIES
MB	960MM HIGH, LANTERN TYPE LED LIGHTING STANDARD (56.0W, 3539 LUMENS) C/W 3.47M HIGH STEEL STRAIGHT POLE ON 760MM ABOVE GRADE CONCRETE BASE (TOTAL HEIGHT OF THE LIGHT STANDARD TO BE 5.49M ABOVE GRADE), SINGLE HEAD C/W 208V DRIVER. 3000K. POLE AND LUMINAIRE SHALL HAVE FINISH AS PER ARCHITECT SELECTION. NLS# DMR-1-T4-MO-32L-53-30K8-HSS-RO-AM-PT. B0-U0-G1 COOPER, LUMEC RA856 & BALTIMORE POLE, ACUITY PUCL3 SERIES
W1	LED WALL PACK (9.4W, 1064 LUMENS), MOUNTED @ 3.1M, C/W 120V DRIVER, 3000K. FINISH TO ARCHITECT'S SELECTION. SOLERA# SRBK-4-D-30K-U0. B1-U0-G0 COOPER, SENSO-LETO11 WM, LUMINIS
LSP	1.0M LONG, LED LINEAR LED LIGHT FIXTURE, IP65 (TO BE MOUNTED AS RECESSED IN CHANNEL C/W LENS), 3000K, FOR LIGHTING METAL FACADE, 4.2W/FT., 512 LUMENS/FT. LENGTH & QUANTITIES TO SUIT SITE CONDITIONS (VERIFY ON SITE FOR EXACT EXTENT OF APPLICATION). FINISH TO ARCHITECT'S SELECTION.120V DRIVER. MOUNTED @ 3.2M A.F.F. DIODE# D1-24V-VL5-30K-W016-D1-CPCHB-16-120V. TOTAL LENGTH AS PER SITE CODITIONS COOPER, LUMINII-KENDO, JUNO
LSP1	SAME AS LIGHT FIXTURE TYPE-LSP EXCEPT THAT THIS LIGHT FIXTURE SHALL BE LOCATED IN A COVE AND SHALL BE C/W LENS TO DIRECT LIGHT TOWARDS WALL & SPREADING LIGHT TO THE WALKWAY.

NOTES:

1. ALL LAMPS SHALL BE OF SINGLE MANUFACTURER, UNLESS NOTED OTHERWISE.
2. ALL LINEAR & LED LAMPS SHALL HAVE COLOR TEMPERATURE AS INDICATED
3. THE MANUFACTURER SPECIFIED AS EQUAL TO ENSURE COMPLIANCE WITH BASE LUMINAIRE SPECIFICATIONS. ANY DISCREPANCIES ARE TO BE BROUGHT UP DURING TENDER STAGE.
4. COORDINATE ON SITE WITH ARCHITECT AND CONSULTING ENGINEER FOR MOUNTING HEIGHT OF ALL SURFACE MOUNTED LUMINAIRES PRIOR TO ROUGH IN.
5. ALL THE LIGHT FIXTURES SHOWN IN LUMINAIRE SCHEDULES SHALL BE SUPPLIED & INSTALLED BY ELECTRICAL CONTRACTOR.
6. ELECTRICAL CONTRACTOR SHALL PROVIDE BACKBOXES/JUNCTION BOXES WHEREVER REQUIRED FOR THE INSTALLATION OF THE LIGHT FIXTURES.
7. IN CASE OF PENDANT LIGHT FIXTURES, THE LIGHT FIXTURES SHALL BE SUSPENDED BY AIRCRAFT CABLES. THESE SHOULD BE SEISMICALLY RESTRAINT TO MEET THE POST-DISASTER BUILDING REQUIREMENTS.

GENERAL NOTES:

1. ELECTRICAL CONTRACTOR SHALL REFER TO ARCHITECTURAL & MECHANICAL DRAWINGS FOR ALL SCOPE OF WORK OF ELECTRICAL CONTRACTOR WHICH ARE RELATED TO OTHER TRADES.
2. PROVIDE EACH ITEM MENTIONED OR INDICATED OF QUALITY AND SUBJECT TO QUALIFICATIONS NOTED; PERFORM ACCORDING TO CONDITIONS STATED EACH OPERATIONS STATED, EACH OPERATION PRESCRIBED; AND PROVIDE THEREFORE ALL LABOR, MATERIAL, EQUIPMENT, INCIDENTALS AND SERVICES REQUIRED TO COMPLETE THE INSTALLATION.
3. EXAMINE THE SITE, EXISTING EQUIPMENT AND THE LOCAL CONDITIONS AFFECTING THE WORK UNDER THIS CONTRACT. NO ALLOWANCE WILL BE MADE SUBSEQUENTLY FOR ANY OBVIOUS CONSIDERATIONS OVERLOOKED.
4. SCHEDULE AND COORDINATE ALL WORK WITH OTHER TRADES.
5. CONTRACTOR SHALL BALANCE CIRCUIT LOADS AS CLOSELY AS POSSIBLE.
6. REFER TO MECHANICAL DRAWINGS AND COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATION OF EQUIPMENT & DEVICES PRIOR TO ROUGH IN.
7. ALL ELECTRICAL INSTALLATIONS SHALL BE RECESSED/CONCEALED INSTALLATIONS WHEREVER POSSIBLE; OTHERWISE PROVIDE WIREMOLD STEEL SURFACE MOUNTED RACEWAY C/W SURFACE MOUNTED OUTLETS.
8. PROVIDE FIRE ALARM VERIFICATION REPORT & CERTIFICATE FOR THE COMPLETE FIRE ALARM SYSTEM AS REQUIRED BY AUTHORITIES.
9. CONTRACTOR SHALL PERFORM VOLTAGE DROP CALCULATIONS FOR ALL BRANCH CIRCUITS (LIGHTING AS WELL AS POWER) AND SHALL MAINTAIN VOLTAGE DROP WITHIN PERMISSIBLE LIMITS AS PER OESC REQUIREMENTS AND PROVIDE PROPER WIRE SIZES ACCORDINGLY PRIOR TO COMMENCING OF ROUGH-IN INSTALLATION. THE VOLTAGE DROP CALCULATIONS SHALL BE BASED ON MAXIMUM CIRCUIT AMPACITY.
10. IN CASE OF NON-ACCESSIBLE CEILING, ALL WIRING UPTO ELECTRICAL DEVICES SHALL BE DONE IN CONDUITS TO SUIT APPLICATION TO FACILITATE MAINTENANCE.
11. ELECTRICAL CONTRACTOR SHALL MAKE SUITABLE ARRANGEMENTS TO MAKE ALL THE ELECTRICAL DEVICES AS ACCESSIBLE TO FACILITATE MAINTENANCE. NO ELECTRICAL DEVICE SHALL BE INSTALLED IN SUCH A WAY THAT IT IS UN-ACCESSIBLE AT ANY STAGE FOR MAINTENANCE. CO-ORDINATE ON SITE AND PROCEED ACCORDINGLY.
12. ROOM CONTROLLERS OF LMRC-200 SERIES FOR LIGHTING CONTROL HAVE CONNECTIONS AT ITS BACK. ACCORDINGLY, THIS TYPE OF ROOM CONTROLLERS ARE REQUIRED TO BE MOUNTED ON A BACKBOX. THE DEPTH OF THIS BACKBOX IS REQUIRED TO BE 2.5" DEEP. THEREFORE THE DEPTH OF THE RECESSED BACKBOXES (FOR MOUNTING ROOM CONTROLLERS) WHEREVER APPLICABLE SHALL BE SELECTED TO SUIT APPLICATION.
13. PROVIDE LABELING OF ELECTRICAL POWER OUTLETS AND RECEPTACLES THROUGHOUT THE ENTIRE BUILDING TO PROVIDE IDENTIFICATION OF ELECTRICAL CIRCUITS. THE LABEL SHALL INDICATE CCT.# FED TO THE OUTLET/RECEPTACLE.
14. PROVIDE CONDUITS AND BACK BOXES FOR LIGHTING CONTROL DEVICES TO SUIT APPLICATIONS AND AS PER MANUFACTURER'S RECOMMENDATIONS.
15. ALL LIGHTING CONTROL WIRING IN CASE OF CAT CABLING SYSTEM, SHALL BE PROVIDED IN CONDUITS EXCEPT FOR T-BAR CEILINGS APPLICATIONS WHERE FT6 CABLES (PLENUM RATED) SHALL BE PROVIDED.
16. ALL EMPTY CONDUITS SHALL BE PROVIDED C/W PULL WIRES.
17. ALL THE MI CABLES SHALL BE INSTALLED IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER RECOMMENDATIONS, OESC AND TO THE SATISFACTION OF THE LOCAL ESA INSPECTOR FOR FULLY OPERATIONAL SYSTEM. PROVIDE ALL NECESSARY MATERIAL & LABOR FOR COMPLETE OPERATIONAL SYSTEM TO SUIT APPLICATIONS.
18. ALL FIRE ALARM CABLES FROM FACP TO ALL FIRE ALARM LCD/LED REMOTE ANNUNCIATOR PANELS SHALL HAVE FIRE RATING OF NOT LESS THAN ONE HOUR.
19. PROVIDE SINGLE HEAD J-HOOKS OF 2" DIA. (ON EITHER SIDE OF CORRIDOR AND WITHIN EACH ROOM/AREA) SUSPENDED FROM SLAB IN THE CEILING SPACE OF ALL CORRIDORS AND ROOMS/AREAS UNDER SCOPE OF WORK. PROVIDE J-HOOKS EVERY 2 FEET AND SUSPENDED BELOW ANY PIPING, MECHANICAL DUCTS ETC. NO RUN OF LOOSE CABLE FROM CONDUIT STAB UP SHALL EXCEED 10 FEET TO FIRST J-HOOK. PROVIDE QUANTITY OF J-HOOKS TO SUIT FOR FULL COVERAGE THROUGHOUT FLOOR AREAS OF THE BUILDING AT ALL FLOORS.
20. PROVIDE PANEL DIRECTORIES FOR ALL THE NEW PANELS INDICATING ALL CIRCUITS FED FROM THE RESPECTIVE PANELS. NAME THE UNUSED BREAKERS AS 'SPARE'.
21. PROVIDE FIRE STOPPING AROUND CONDUITS AND CABLES WHEN PASSING THROUGH FIRE RATED WALLS OR FLOORS.
22. PROVIDE #10 AWG CONDUCTORS FOR LIGHTING CIRCUITS IN CASE THE TOTAL CIRCUIT LENGTH EXCEEDS 80' FROM THE RESPECTIVE PANEL UNLESS SPECIFIED OTHERWISE.
23. VERIFY ON SITE FOR EXACT LOCATION OF MECHANICAL EQUIPMENT PRIOR TO ROUGH-IN.
24. LOCATION OF THE OCCUPANCY SENSORS FOR LIGHTING CONTROLS HAVE BEEN SHOWN ON LIGHTING DRAWINGS FOR GROUPING PURPOSES ONLY. CO-ORDINATE WITH SYSTEM SUPPLIER FOR EXACT LOCATION OF THE OCCUPANCY SENSORS SO AS TO ACHIEVE OPTIMUM COVERAGE AND TO AVOID MAL FUNCTIONING OF THE OCCUPANCY SENSORS.
25. ALL CONDUITS ON FLAT ROOF SHALL RUN AS CONCEALED.
26. ALL COMMUNICATION WIRING SHALL BE TERMINATED IN I.T. RACK LOCATED IN I.T. ROOM AT MEZZANINE LEVEL.
27. IN CASE OF PENDANT LIGHT FIXTURES, THE LIGHT FIXTURES SHALL BE SUSPENDED BY AIRCRAFT CABLES. THESE SHOULD BE SEISMICALLY RESTRAINT TO MEET THE POST-DISASTER BUILDING REQUIREMENTS.

ISSUE OR REVISION

NO.	ISSUED FOR	DATE (M.D.Y)
1	DESIGN DEVELOPMENT FOR COSTING	07.07.22
2	ISSUED FOR PERMIT	09.07.23
3	ISSUED FOR REVIEW	02.13.24
4	ISSUED FOR TENDER	04.15.24

PROJECT :

CITY OF VAUGHAN FIRE STATION 7-12

9541 WESTON ROAD, VAUGHAN

CLIENT

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCEMENT OF THE WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT.

MEP

Jain

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PROFESSIONAL SEAL

REGISTERED PROFESSIONAL ENGINEER
D. JAIN
APR.15'24
PROVINCE OF ONTARIO

21-237

DWG TITLE

LEGEND & DETAILS

ORIENTATION

TRUE NORTH — CONSTRUCTION NORTH

DATE

SCALE N.T.S.

DRAWN BY CV — CHECKED BY RH

DWG STATUS :

PROJECT No.

DRAWING No. E1.0

REVISION