



- KEY NOTES:**
- STARTERS AND VFD STARTERS TO BE SUPPLIED BY MECHANICAL CONTRACTOR.
 - INTERLOCK BETWEEN ELEVATORS AND ELEVATORS. ELECTRICAL CONTRACTOR TO PROVIDE NECESSARY WIRING AND DRY CONTACTS AT TERMINALS. ELEVATOR STOP/START SIGNALS DUE TO FIRE ALARM ATTENTION AND/OR POWER OUTAGE SHALL BE AT ELEVATOR VENDOR.
 - ELECTRICAL CONTRACTOR TO PROVIDE 4-CONDUCTOR RIM-CABLE (RIBBON INSULATION UNITS ON DELTA GROUND IN 1-BIT CONDUIT). ALL LOADS DESIGNATED SHALL BE INTERLOCKED WITH THE FIRE PUMP. WHEN THE FIRE PUMP STARTS, ALL THESE LOADS SHALL STOP RUNNING. PROVIDE INTER-LOCK BETWEEN ELEVATOR ELONG TRIP IN 1/2" ELEC. BOX/ CU 1/2" BIT. PROVIDE 1/2" BIT TO UTILITY COMPARTMENT OF MAIN RATED PANEL.
 - 1C - SINGLE CONDUCTOR CABLES TO RUN WITH 1 CABLE DIA. REPAIRATION AND SUPPORTED BY INTERLOCK OR TRAY AS PER IEC 603 OR 3-OR 4-CONDUCTOR CABLES (RIBBON INSULATION COMPLETELY TO MEET REQUIREMENTS 3.1-3.1.1).
 - MAIN FEEDERS TO ROOF ROOF AUTOBOARD/EQUIPMENT SHALL BE RAN IN ELECTRICAL SHIRT.
 - NON-COMBINATION STARTER CU SAFETY DISCONNECT (BY CIV. EN).
 - ALL CABLES CONNECTING EQUIPMENT TO EMERGENCY POWER SHALL BE FIRE RATED 2-HR OR ENCLOSED IN ON A V.C APPROVED 1-HR FIRE RESISTANT ENCLOSURE.
 - NOT USED.
 - CONNECT AUX CONTACT TO CAOP MANUAL START/STOP SWITCH FOR FREIGHTS.
 - CONTRACTOR SHALL PROVIDE SHORT CIRCUIT STUDY AND RELAY COORDINATION STUDY WITH EQUIPMENT SUPPLIED TO ENSURE THAT ALL POWER DISTRIBUTION DEVICES CAN WITHSTAND SHORT CIRCUIT CURRENTS AND ARE PROPERLY COORDINATED.
 - GENERATOR BLENDER SHALL BE HORIZONTAL GRADE 'HOODY' PUMP AND MECHANICAL SHAFT. CONTRACTOR TO PROVIDE SILENCER AFTER 97% TREATMENT.
 - 1 - SIZE PENDING ON EQUIPMENT SHOP DRAWING DATA.
 - REFER TO DRAWING 8-1-10 FOR WIRING DETAILS FOR DIGITAL METERING. EACH METER TO BE CONNECTED TO SUB-METER TERMINAL IN P-1 ELEC. RLT WITH CAT5 CABLES. PROVIDE 1 CAT5 CABLES OF CORRECT COLOR.
 - NOT USED.
 - ONLY ONE ELEVATOR WILL BE OPERATIONAL ON EMERGENCY POWER AT A TIME.
 - WIRING CONNECTIONS AND CONCEPTUAL ONLY. ELECTRICAL CONTRACTOR MUST REFER TO METERING SUPPLIER'S SHOP DRAWING DIAGRAM FOR FINAL INSTALLATION.
 - NOT USED.
 - 10KV OVERHEAD ELECTRIC CHANNEL ATROPHICAL. THE CLOCK CU REASONAL HOLIDAY AND EARTH HOUR OVER-RIDE.
 - GENERAL NEUTRAL SHALL BE FLOATING (NOT CONNECTED TO THE FRAME GROUND). ALL POWER CONTROLS AND COMPENSATION CONDITIONS SHALL BE PROVIDED AGAINST FIRE EXPOSURE AS PER IEC. RULE 48-102 AND RULE 41-302(3) OESC 202.
 - THE CONDUITS FOR CTS TO BE RIGID CONDUIT.

- DETAIL A: HIGH VOLTAGE CUSTOMER-OWNED SUBSTATION REQUIREMENTS**
- THE 2000 KVA DRY TRANSFORMER SHALL BE CERTIFIED TO CANADA C22 (NATIONAL) REQUIRE. THE CERTIFICATION SHALL APPEAR ON THE TRANSFORMER NAMEPLATE. BULLETIN 36-36-A BLOCK OUTLINE AND SINGLE LINE DIAGRAM SHALL BE POSTED AT THE DISTRIBUTION RUISSEAR AND EACH SUBSTATION IN ACCORDANCE WITH RULE 36-308.
 - SUITABLE WARNINGS SIGNS SHALL BE INSTALLED AS REQUIRED BY RULE 36-308 AND BULLETIN 36-36-A.
 - COMPARTMENTS CONTAINING RIBS SHALL HAVE THE COVER OR DOOR INTERLOCKED WITH THE RIBS. THE INTERLOCKING MECHANISM SHALL BE SUCH THAT THERE IS NO ACCESS TO THE RIBS UNLESS THE RIBS OR DISCONNECTING PARTS ARE FIRST MANUALLY OPENED. THE RIBS IN THE DE-ENERGIZED POSITION AND THE SWITCH CONTACTS IN THE CLOSED POSITION UNTIL THE RIBS COMPARTMENT HAS BEEN CLOSED. RULE 36-308.
 - THE PRIMARY WINDING CONNECTION OF THE HIGH VOLTAGE TRANSFORMER SHALL BE CONNECTED TO THE LOC SYSTEM NEUTRAL UNLESS OTHERWISE SPECIFIED BY THE SYSTEM RIBS (36-308(3)).
 - THE LOW VOLTAGE NEUTRAL 'TOP' OF THE TRANSFORMER SHALL BE GROUND TO THE ELEVATOR ELECTRODE WITH A 1/2" DIA. COPPER CONDUCTOR RULE 36-308, 36-309 AND 36-306.
 - THE BOND CONDUCTOR INSTALLED BETWEEN THE TRANSFORMER ENCLOSURE ELECTRODE AND THE SECONDARY DISTRIBUTION SHALL BE A 1/2" DIA. COPPER CONDUCTOR OR EQUIVALENT TABLE 1C, RULE 36-308 AND RULE 36-304.
 - ALL CONNECTIONS TO THE STATION GROUND ELECTRODE SHALL BE TO BE PERMANENTLY TIED TO THE STATION GROUND ELECTRODE BY RUNNING TWO 1/2" DIA. COPPER GROUNDING CONDUCTORS. THE GROUNDING CONDUCTORS SHALL BE PERMANENTLY TIED TO THE STATION GROUND ELECTRODE BY RUNNING TWO 1/2" DIA. COPPER GROUNDING CONDUCTORS. THE GROUNDING CONDUCTOR LINE SHALL BE INCREASED TO 1/2" DIA. COPPER GROUNDING CONDUCTOR UNLESS OTHERWISE SPECIFIED BY THE SYSTEM RIBS (36-308(3)).
 - THE RIBS SHALL BE INSTALLED WITHIN 15M FROM THERE EXISTING SERVICE CONDUIT. THE RIBS SHALL BE INSTALLED WITHIN 15M FROM THERE EXISTING SERVICE CONDUIT UNLESS OTHERWISE SPECIFIED BY THE SYSTEM RIBS (36-308(3)).
 - RULE 36-308 AND BULLETIN 36-36-A REQUIRE THE CUSTOMER'S RIBS TO BE INSTALLED WITHIN 15M FROM THERE EXISTING SERVICE CONDUIT. THE RIBS SHALL BE INSTALLED WITHIN 15M FROM THERE EXISTING SERVICE CONDUIT UNLESS OTHERWISE SPECIFIED BY THE SYSTEM RIBS (36-308(3)).

ELECTRICAL LEGEND

LIGHTING

- FLUORESCENT LIGHT FIXTURE TYPE AS INDICATED
- NIGHT LIGHT OR LIGHT CONNECTED TO EMERGENCY POWER
- CEILING MOUNTED WALL MOUNTED LIGHT FIXTURE. INSCRIBED LETTER DENOTES TYPE
- POLE MOUNTED LIGHT FIXTURE. INSCRIBED LETTER DENOTES TYPE
- CAPPED CEILING LIGHT OUTLET
- TRACK LIGHT
- STRIP LIGHT
- UNDER CABINET FLUORESCENT LIGHT FIXTURE
- CEILING MOUNTED WALL MOUNTED EXIT SIGN
- EMERGENCY BATTERY PACK
- EMERGENCY BATTERY PACK
- OCCUPANCY SENSOR POWER PACKS
- 1/4" / 3/8" SINGLE/THREE POLE SINGLE/THREE THROUGH SINGLE SWITCH RESPECTIVELY
- 3/4" / 1" / 1 1/2" / 2" DENOTES 3-WAY 4-WAY/FLYOUT LIGHT, DIMMER SWITCHED LIGHT RESPECTIVELY
- MASTER LIGHTING SWITCH OFF SWITCH
- SENSOR WALL SWITCH FIRE SELF POWERED
- OCCUPANCY SENSOR CEILING MOUNTED

POWER

- REGULAR DUPLEX RECEPTACLE
- DUPLEX RECEPTACLE GROUND FAULT INTERRUPT
- 3-POLE 1-POLE DUPLEX RECEPTACLE
- SINGLE RECEPTACLE TYPE AND CONFIGURATION AS SPECIFIED FOR DRYER
- CONNECTION FOR OVERCLOCKTOP
- ABOVE COUNTER DEVICE
- CEILING MOUNTED DEVICES
- FLOOR MOUNTED DEVICES
- DISCONNECT SWITCH NON-FUSED
- DISCONNECT SWITCH FUSED
- COMPENSATION STARTER
- FRACTIONAL MOTOR/FAN DIRECT CONNECTION
- DIRECT CONNECTION SINGLE PHASE
- DIRECT CONNECTION THREE PHASE
- HEAT TRACE
- DRYER SENSOR
- ELECTRICAL HEATER
- ELECTRICAL PANEL / SECURITY PANEL

TELECOMMUNICATION

- TELEPHONE OUTLET
- TELEPHONE CABLE (MULTI-PORT OUTLET)
- DATA OUTLET
- DATA/TELEPHONE CABLE
- IN SITE TELEPHONE BOX/CU RECEPTACLE
- LIFT LOCATION
- MUSIC SPEAKER / VOLUME CONTROL
- RADIO RECEIVER

SECURITY

- INTERCOM / INTERPHONE
- INTERCOM WITH CAMERA
- PANIC BUTTON / PANIC INTERCOM STATION
- CARD READER
- AUTOMATIC RELEASE CARD ACCESS/RADIO
- ELECTRIC STRIKE
- MAGLOCK
- DOOR CONTACT / WINDOW CONTACT
- AUTOMATIC DOOR OPERATOR
- MOTION DETECTOR
- PUSH BUTTON
- SECURITY CAMERA

LIFE SAFETY

- FIRE ALARM SPOKE DETECTOR
- SPOKE ALARM
- FIRE ALARM DUCT TYPE SPOKE DETECTOR
- FIRE ALARM HEAT DETECTOR
- FIXED TRIP 5A 7C ZEPHEUS HEAT DETECTOR
- MOISTURE PROOF HEAT DETECTOR
- CO ALARM
- COMBINATION SPOKE + CO ALARM
- CO SENSOR / NO SENSOR
- FIRE ALARM MANUAL CALL STATION
- PREVENTERS HANDSET
- FIRE ALARM STROBE/ORN WALL MTD.
- FIRE ALARM HORN WALL MTD.
- FIRE ALARM SPEAKER/STROBE CEILING MTD.
- FIRE ALARM MANUATOR PANEL
- FIRE ALARM CONTROL PANEL

NO.	DESCRIPTION	DATE	BY
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02/13/14	REVISION		ST

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