



**GENERAL AREA CIRCUITING - TABLE #1**

LIGHTING FIXTURE LOCATION	RECEPTACLE LOCATION	CCT. #
P4 TO P1 - EXIT SIGNS	EX-XX LOBBY (P4 TO P1)	EX-XX
G/F TO 10/F - EXIT SIGNS	EX-XX STAIR 'A' (3/F, 2/F, 1/F)	EX-XX
11/F TO ROOF - EXIT SIGNS	EX-XX STAIR 'B' (11/F, 10/F, 9/F, 8/F, 7/F, 6/F, 5/F, 4/F, 3/F, 2/F, 1/F)	EX-XX
LOBBY (P4 TO P1)	EX-XX STAIR 'B' (11/F, 10/F, 9/F, 8/F, 7/F, 6/F, 5/F, 4/F, 3/F, 2/F, 1/F)	EX-XX
STAIR 'A' (P4 TO P1)	EX-XX STAIR 'C' (10/F, 9/F, 8/F, 7/F, 6/F, 5/F, 4/F, 3/F, 2/F, 1/F)	EX-XX
CORRIDOR	EX-XX STAIR 'D' (11/F, 10/F, 9/F, 8/F, 7/F, 6/F, 5/F, 4/F, 3/F, 2/F, 1/F)	EX-XX
	EX-XX STAIR 'E' (11/F) FLOOR	EX-XX
	EX-XX CORRIDOR	EX-XX

- GENERAL NOTES - PARKING:**
- ELECTRICAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH MECHANICAL, STRUCTURAL, ARCHITECTURAL AND LANDSCAPE DRAWINGS AND COMPLY WITH ALL APPLICABLE NOTES.
  - CONTRACTOR SHALL RUN CABLES WITHIN CEILING SLAB OR ENCLOSURES TO RETAIN 2 HOUR FIRE PROTECTION RATING FOR ALL LOADS THAT CONNECT TO EMERGENCY POWER.
  - STAIRWAY WALL MOUNTED EMERGENCY LIGHT FIXTURES SHALL BE MOUNTED @ 1' AFF.
  - EMERGENCY LIGHT FIXTURES IN LOCKERS, STORAGE, UTILITY AND SERVICE ROOMS SHALL BE CONNECTED TO BOTH NORMAL AND EMERGENCY POWER AS PER DETAIL #20 OF DUG. E-35.
  - FOR STORAGE ROOM VENTILATION SYSTEM, DIV. 16 TO PROVIDE CONDUIT, WIRING AND SWITCH (S) TO START/STOP FAN AND DAMPER. FAN AND 120V ACTUATOR TO BE SUPPLIED AND INSTALLED BY DIV. 15.
  - FOR UTILITY ROOM VENTILATION SYSTEM, DIV. 15 WILL PROVIDE LINE VOLTAGE THERMOSTAT (T) TO DIV. 16. DIV. 16 TO PROVIDE CONDUIT AND WIRING TO START/STOP FAN AND DAMPER VIA THERMOSTAT. FAN AND 120V ACTUATOR TO BE SUPPLIED AND INSTALLED BY DIV. 15.
  - FOR UNIT HEATER, DIV. 15 TO PROVIDE LINE VOLTAGE THERMOSTAT (T). DIV. 16 TO PROVIDE CONDUIT AND WIRING TO START/STOP UNIT HEATER.
  - SANITARY PIPE AS NOTED, ALL STANDPIPE ALL WET SPRINKLER AND DOMESTIC WATER PIPE RUN IN UNHEATED AREA SHALL BE HEAT TRACED BY DIV. 16.
  - ULTRASONIC CEILING MOUNTED SENSORS SHOULD BE LOCATED AT A MINIMUM OF 6 FEET FROM HVAC SUPPLY/RETURN VENTS.
  - REFER TO DETAIL #6 ON DUG. E-35 FOR OCCUPANCY SENSORS ON LIGHTING CONTROL BLOCK DIAGRAM.
  - CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS FOR NON-ADAPTIVE PRODUCTS, FOLLOWING THE MANUFACTURER'S RECOMMENDED PLACEMENT, AND FIELD VERIFICATION OF CIRCUITS WITH RESPECT TO POWER PACK FOR OCCUPANCY SENSORS REPLACEMENT. (IF USED)
  - CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF REQUIRED NUMBER OF POWER PACKS FOR OCCUPANCY SENSORS. (IF USED).
  - CARBON MONOXIDE CONDUIT SYSTEM TO BE PROVIDED AND INSTALLED BY DIV. 16 THROUGHOUT PARKING LOT, AND SHALL BE MOUNTED ON COLUMNS AT 1200mm AFF. REFER TO DETAIL #22 ON DUG. E-35.
  - GARAGE EXHAUST FANS SHALL BE CONTROLLED BY CO SENSOR SYSTEM C/W OVERRIDE ON/OFF SWITCH LOCATED AT THE CACF.
  - REFER TO SPRINKLER DRAWINGS FOR FIRE PROTECTION DEVICE TO BE CONNECTED TO THE FIRE ALARM SYSTEM. THE DEVICE AND EQUIPMENT SHALL FORM AN INTEGRAL PART OF THE ELECTRICAL CONTRACT.
  - PROVIDE CHAIN FOR CEILING MOUNTED LIGHT FIXTURES IN P-1 LEVEL. LIGHTS TO BE INSTALLED AT 3m AFF. MAX. 2m AFF. MIN. OR INSTALL LIGHTS BELOW MECHANICAL PIPE, WHICHEVER HAS LOWER AFF.
  - OCCUPANCY SENSORS SHALL COMMUNICATE TO RELAY PANEL THROUGH LVT WIRING CIRCUIT # Z1, Z2, ETC.
  - CONTRACTOR SHALL PROVIDE ALLOWANCE FOR HEAT TRACING TO DRUM DRIPS (6 PER PARKING LEVEL).
  - THE INDOOR METAL ENCLOSED HIGH VOLTAGE SWITCHGEAR MUST BE CERTIFIED TO STANDARD CSA C222 No 3. RULE 2-024, BULLETIN 36-6-19.
  - THE LOCATION OF THE HIGH VOLTAGE CONDUCTORS ENCASED OR EMBEDDED IN CONCRETE OR MASONRY SHALL BE INDICATED BY PERMANENT MARKERS SET IN THE WALLS, FLOORS OR CEILINGS AT INTERVALS OF NOT MORE THAN 3M. RULE 36-100 (4).
  - CONDUCTORS USED FOR THE CONNECTION TO DRY TYPE TRANSFORMERS SHALL BE PERMITTED TO ENTER A TRANSFORMER THROUGH THE TOP, ONLY WHERE THE TRANSFORMER IS MARKED TO PERMIT SUCH ENTRY. RULE 26-240 (3).
  - THE PRIMARY "HO" CONNECTION OF THE HIGH VOLTAGE TRANSFORMER SHALL BE CONNECTED TO THE UTILITY COMPANY'S SYSTEM NEUTRAL, WHEN REQUIRED BY THE UTILITY COMPANY. RULE 2-034.

- KEY NOTES - PARKING:**
- FOR CIRCUITING, REFER TO TABLE #1.
  - PROVIDE ALARM SPEAKER, SMOKE DETECTOR AND RECEPTACLE AT EVERY THIRD FLOOR STAIR WELL STARTING FROM TOP FLOOR, AS PER TO DUG. E-32 FOR FIRE ALARM RISER DIAGRAM.
  - SANITARY TRAPS ARE TO BE HEAT TRACED BY DIV. 16. CONNECT TO CIRCUIT 'XXXXX'.
  - SANITARY AND STORM LINE IN PARKING FLOORS ARE TO BE HEAT TRACED WITH SELF REGULATING CABLE BY DIV. 16. CONNECT TO GF1 CIRCUIT AS SHOWN.
  - ACTIVATION OF FIRE ALARM SYSTEM SHALL ACTIVATE THE SUPPLY FANS, WHEN THE DUCT TYPE SMOKE DETECTOR IS ACTIVATED, THE ASSOCIATED SUPPLY FAN SHALL BE TURNED OFF, WHEN THE MOTORIZED DAMPER IS ACTIVATED, THE DOOR SHALL BE RELEASE AND OPENED.
  - ELECTRICAL CONTRACTOR SHALL PROVIDE A RECEPTACLE C/W 1-1/2" CONDUIT TO 120/208V PANEL 'EV' WITH METER FOR PHEV (PLUG-IN HYBRID ELECTRIC VEHICLES); XX DEDICATED 1ø, 208V, 20A CIRCUITS.
  - ALLOCATE 2, 120V, 15A CCTS FROM PANEL 'X' FOR MECHANICAL CONTROL, CONTRACTOR COORDINATE WITH DIV. 15 FOR EXACT LOCATION, REFER TO PANEL SCHEDULE FOR CCT#X-XX, X-XX).
  - F.H.C. IN UNHEATED AREAS ARE TO BE HEAT TRACED BY DIV. 16. CONNECT TO GF1 CIRCUIT AS SHOWN.
  - CONTROL PANEL FOR SANITARY PUMP AND STORM PUMP BY DIV. 15, POWER CONNECTION UP TO CONTROL PANELS SHALL BE INSTALLED BY DIV. 16. CONTRACTOR THIS CONTRACTOR SHALL SUPPLY UNDER SLAB CONDUITS FOR POWER AND CONTROL WIRING FROM CONTROL PANELS TO SANITARY/GUMP PIT.
  - INSTALL 3/4" CONDUIT C/W PULL STRING FROM SANITARY AND STORM PUMP CONTROL PANEL TO CONCERGE DESK AND CACF FOR HIGH WATER ALARM SYSTEM.

**ELECTRICAL LEGEND**

**LIGHTING**

- FLUORESCENT LIGHT FIXTURE TYPE AS NOTICED
- 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
- CUTTED CEILING LIGHT OUTLET
- TRUCK LIGHT
- STRIP LIGHT
- UNDER CABINET FLUORESCENT LIGHT FIXTURE
- CEILING MOUNTED WALL MOUNTED EXIT SIGN
- INDELED, EMERGENCY LAMP KENOTE HEAD
- EMERGENCY BATTERY PACK
- OCCUPANCY SENSOR POWER PACKS
- 1 1/2" SINGLE/THREE POLE SINGLE/THREE POLE
- 1 1/4" (1 1/2" DENOTES 150V 4-WAY/1-PHOT LIGHT, OTHER SWITCHED LIGHT, RESPECTIVELY)
- MASTER LIGHTING SWITCH/OUTLET
- SENSOR WALL SWITCH FIRE SELF POWERED
- OCCUPANCY SENSOR CEILING MOUNTED

**POWER**

- REGULAR DUPLEX RECEPTACLE
- DUPLEX RECEPTACLE GROUND FAULT INTERRUPT
- 3-1/2" 1-1/2" DUPLEX RECEPTACLE
- SINGLE RECEPTACLE TYPE AND CONFIGURATION AS SPECIFIED FOR DRYER
- CONNECTION FOR OVERCURRENT
- ABOVE COUNTER DEVICE
- CEILING MOUNTED SWITCHES
- FLOOR MOUNTED SWITCHES
- DISCONNECT SWITCH NON-FUSED
- DISCONNECT SWITCH FUSED
- COMPONENT SWITCHES
- FRACTIONAL MOTOR-FAN DIRECT CONNECTION
- DIRECT CONNECTION SINGLE PHASE
- DIRECT CONNECTION THREE PHASE
- THERMOSTAT
- ORDER SENSOR
- HEAT TRACE
- ELECTRICAL HEATER
- ELECTRICAL PANEL / SECURITY PANEL

**TELECOMMUNICATION**

- TV CABLE OUTLET
- TELEPHONE OUTLET
- TELEPHONE CABLE (MULTI-PORT OUTLET)
- DATA OUTLET
- DATA/TELEPHONE OUTLET
- IN-SITE TELEPHONE BOX/C/W RECEPTACLE
- RFI 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 KEYFAN
- ELECTRIC STRIKE
- MAGLOCK
- DOOR CONTACT / WINDOW CONTACT
- AUTOMATIC DOOR OPERATOR
- VISION DETECTOR
- PUSH BUTTON
- SECURITY CAMERA

**LIFE SAFETY**

- FIRE ALARM SMOKE DETECTOR
- SPOKE ALARM
- FIRE ALARM DUCT TYPE SMOKE DETECTOR
- FIRE ALARM HEAT DETECTOR
- FIXED TEMP. 58° C/135° F HEAT DETECTOR
- POISSURE PROOF HEAT DETECTOR
- CO ALARM
- COMBINATION SPOKE & CO ALARM
- CO SENSOR / NO SENSOR
- FIRE ALARM MANUAL PULL STATION
- PREPAREDNESS HANGSET
- FIRE ALARM STROBE/ALARM WALL MTD.
- FIRE ALARM HORN WALL MTD.
- FIRE ALARM HORN WALL MTD.
- FIRE ALARM SPEAKER/STROBE CEILING MTD.
- FIRE ALARM SPEAKER CEILING MTD.
- FIRE ALARM ANNUNCIATOR PANEL
- FIRE ALARM CONTROL PANEL

**REVISIONS**

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT DISCREPANCIES TO THE ENGINEERS BEFORE PROCEEDING WITH THE WORK. THIS DRAWING IS THE PROPERTY OF THE ENGINEERS AND IS TO BE RETURNED TO THEM UPON COMPLETION OF THE WORK. DRAWINGS ARE NOT TO BE SCALED.

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**DRAWING TITLE**  
P-1 FLOOR PLAN  
ELECTRICAL LAYOUT

**PROJECT TITLE**  
ALEXANDRA PARK

XXXX TORONTO ONTARIO

DATE: FEB 13 1313  
DRAWN BY: S.O.  
CHECKED BY: S.T.  
SCALE: 1:100  
PROJECT NUMBER: E-3  
DRAWING NUMBER: E-3