

**GENERAL NOTES - ROOF:**

- ELECTRICAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH MECHANICAL, STRUCTURAL, ARCHITECTURAL AND LANDSCAPE DRAWINGS.
- CONTRACTOR SHALL RUN CABLES WITHIN CEILING SLAB OR ENCLOSURES TO RETAIN 2 HOUR FIRE PROTECTION RATING FOR ALL LOADS THAT CONNECT TO EMERGENCY POWER.
- FIRE ALARM RISERS SHALL BE RUN IN 2 HOUR FIRE RATED ELECTRICAL CLOSET. REFER TO DWG. E-32 FOR RISER DIAGRAM AND DETAILS.
- PROVIDE ALARM SPEAKER, SMOKE DETECTOR AND RECEPTACLE AT EVERY THIRD FLOOR STAIR WELL.
- STAIRWAY WALL MOUNTED EMERGENCY LIGHT FIXTURES SHALL BE MOUNTED @ 1' AFF.
- FOR STORAGE ROOM VENTILATION SYSTEM, DIV. 16 TO PROVIDE CONDUIT, WIRING AND SWITCH (S) TO START/STOP FAN AND DAMPER. FAN AND 110V 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 110V 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.
- CONDUITS TO MEDIUM SIZED TRANSFORMERS (300KVA-450KVA), ARE NOT TO BE BURIED IN THE ROOF SLAB RIGHT UP TO THE UNIT. INSTEAD, THEY ARE TO BE ROUTED ACROSS THE CEILING OF THE MECHANICAL PENTHOUSE AND BACK DOWN TO CONNECT TO THE TRANSFORMER.
- ELECTRICAL FEEDS TO THE CHILLER SHOULD BE ROUTED ACROSS THE CEILING AND DOWN TO THE CHILLER PANEL, NOT UP THROUGH THE FLOATING FLOOR.
- ELEVATOR CONTROLLER SUPPLIED AND INSTALLED BY OTHERS. THIS CONTRACTOR SHALL PROVIDE INTERCONNECTION BETWEEN FIRE ALARM CONTROL PANEL AND ELEVATOR CONTROLLER.

12. DIV. 16 TO PROVIDE 1" CONDUIT TO AUTOMATIC (T) TRANSFER SWITCH AND GENERATOR CONTROLLER. REFER TO SINGLE LINE DIAGRAM DWG. E-30 FOR CONDUIT RISER DETAILS.

13. ALLOCATE 2, 120V, 15A CIRCUITS FROM PANEL 'LP-R1' FOR MECHANICAL CONTROL. CONTRACTOR COORDINATE WITH DIV. 15 FOR EXACT LOCATION. REFER TO PANEL SCHEDULE FOR CCT\*(R1-), R1-).

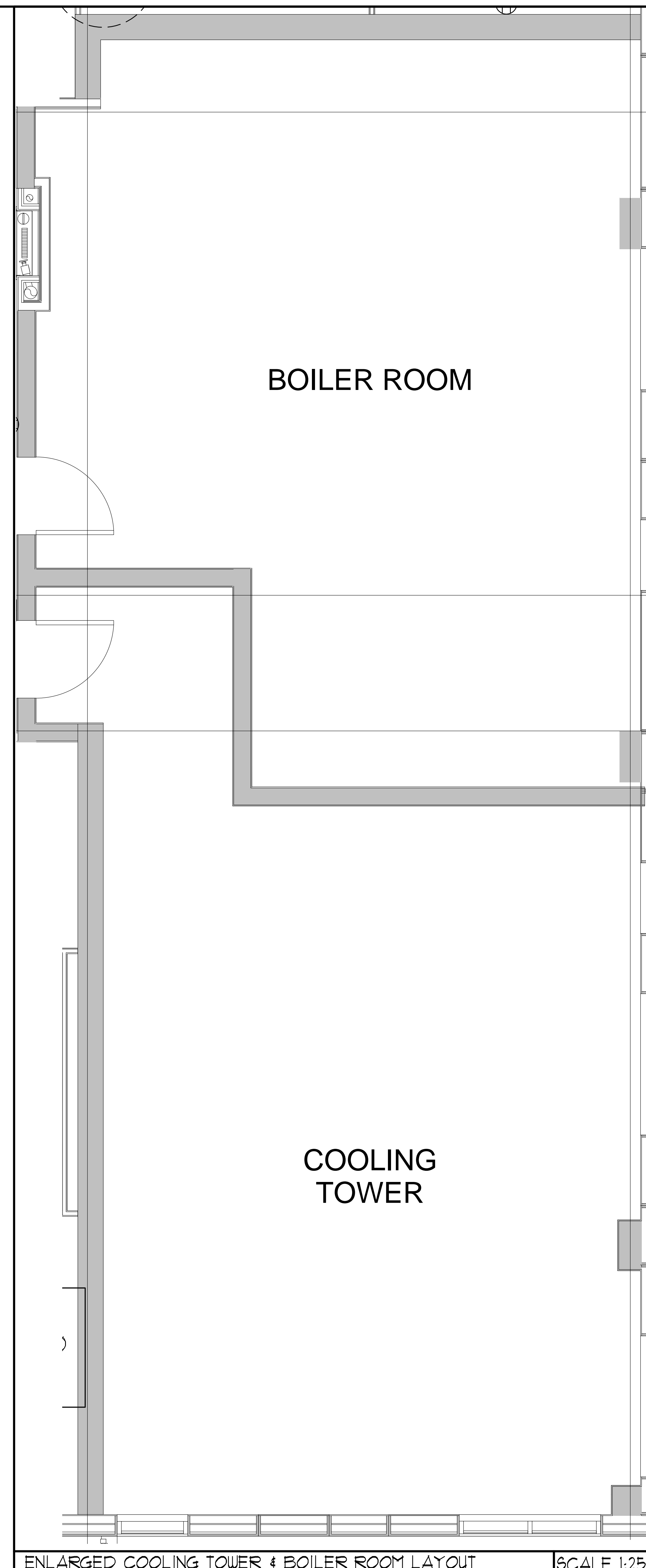
14. REFER TO SPRINKLER DRAWINGS FOR FIRE PROTECTION DEVICE TO BE CONNECTED TO THE FIRE ALARM SYSTEM. THE DEVICE AND EQUIPMENT SHALL FORM AN INTEGRAL PART OF THE ELECTRICAL CONTRACT.

**KEY NOTES - ROOF:**

- FOR CIRCUITING, REFER TO TABLE #1.
- ELECTRICAL CONTRACTOR SHALL PROVIDE THE FOLLOWINGS FOR BOILER:
  - 515V, 3Ø, 15A FEEDER FOR BOILER CIRCULATING PUMP.
  - 15V, 1Ø, 15A DEDICATED CIRCUIT FOR BOILER IGNITER.
  - BOILER SHUTDOWN PUSHBUTTON AT EXIT OF MECHANICAL ROOM.
- DIV. 16 TO SUPPLY, DIV. 15 TO INSTALL HOSPITAL PLUS GRADE MUFFLER ON THE GENERATOR EXHAUST. MUFFLER AND EXHAUST PIPE SHOULD BE ISOLATED FROM THE BUILDING STRUCTURE USING SPRINGS OR HIGH TEMPERATURE FELT PADS.
- PROVIDE CONDUIT AS PER SECURITY CONDUIT CONNECTION DIAGRAM ON DWG. E-31.
- PROVIDE CONDUIT AS PER TELECOM RISER ON DWG. E-31.
- ALL EXTERIOR LIGHTS SHALL BE CONTROLLED BY A TIMER/CONTACTOR LOCATED NEAR 'LP-R1', CONNECT LIGHTS TO CIRCUIT AS SHOWN.

**GENERAL AREA CIRCUITING - TABLE #1**

LIGHTING FIXTURE LOCATION	CCT.#	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" (5/F,2/F,P2)	EX-XX
11/F TO ROOF - EXIT SIGNS	EX-XX	STAIR "B" (11/F,10/F,9/F,8/F) FLOORS	EX-XX
LOBBY (P4 TO P1)	EX-XX	STAIR "B" (12,13,3/P1/P4) FLOORS	EX-XX
STAIR "A" (P4 TO G/F)	EX-XX	STAIR "C" (11/F,10/F,9/F,8/F) FLOORS	EX-XX
CORRIDOR	EX-XX	STAIR "C" (18,15,12,3,6,3) FLOORS	EX-XX
	EX-XX	STAIR "D" (P1/P4) FLOORS	EX-XX
	EX-XX	STAIR "E" (P1) FLOOR	EX-XX
	EX-XX	CORRIDOR	EX-XX

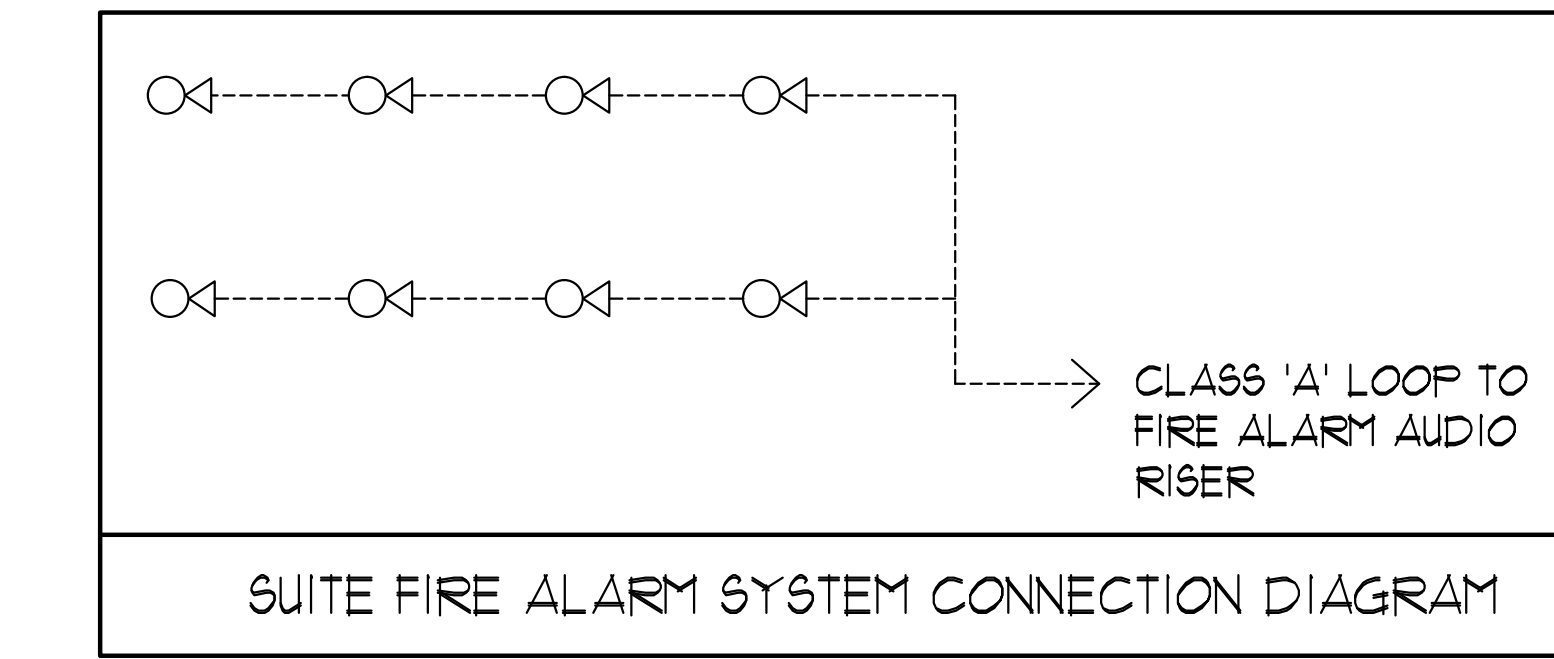


**GENERAL NOTES - RESIDENTIAL:**

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- FIRE ALARM RISERS SHALL BE RUN IN 2 HOUR FIRE RATED ELECTRICAL CLOSET. REFER TO DWG. E-32 FOR RISER DIAGRAM AND DETAILS.
- STAIRWAY WALL MOUNTED EMERGENCY LIGHT FIXTURES SHALL BE MOUNTED @ 1' AFF.
- EMERGENCY LIGHT FIXTURES IN LOCKERS, STORAGE, GARBAGE, UTILITY AND SERVICE ROOMS SHALL BE CONNECTED TO BOTH NORMAL AND EMERGENCY POWER AS PER DETAIL #1 OF DWG. E-35.
- FOR STORAGE ROOM VENTILATION SYSTEM, DIV. 16 TO PROVIDE CONDUIT, WIRING AND SWITCH (S) TO START/STOP FAN AND DAMPER. FAN AND 110V ACTUATOR TO BE SUPPLIED AND INSTALLED BY DIV. 15.
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- 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.
- REFER TO SUITE PANEL SCHEDULES FOR INSULTE CIRCUIT ARRANGEMENT.
- ALL DWELLING UNIT RECEPTACLES EXCEPT IN KITCHEN SHALL BE TAMPER PROOF.
- PROVIDE GROUND FAULT PROTECTION FOR SUITE KITCHEN AND WASHROOM RECEPTACLES WITHIN 1500mm OF SINK.
- PROVIDE TELECOMMUNICATION BOX C/W BUILT-IN RECEPTACLE FOR TELECOMMUNICATION. TELECOMMUNICATION BOX SHALL BE COMPLIANT WITH THE TELECOM SERVICE PROVIDER SPECIFICATION. REFER TO DETAIL #3 ON DWG. E-35 FOR TELECOM JUNCTION BOX INSTALLATION.
- DRYER SENSOR TO START DRYER VENTILATION FAN AUTOMATICALLY WHEN DRYER IS RUNNING.
- ALL SMOKE ALARMS WITHIN THE SUITE SHALL BE HARDWIRED TOGETHER AND TO A 15A, 1P CIRCUIT BREAKER AHEAD OF OTHER LOADS.

**KEY NOTES - RESIDENTIAL:**

- 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 DWG. E-32 FOR FIRE ALARM RISER DIAGRAM.
- REFER TO SUPERVISED VALVE AND FLOW SWITCH SCHEDULE ON DWG. E-30 FOR DETAILS ON TYPICAL FLOORS.
- PROVIDE TELECOMMUNICATION BACKBOARD C/W 15V, 1Ø, 15A RECEPTACLE AS PER COMMUNICATION RISER DIAGRAM ON DWG. E-31.
- CONTRACTOR SHALL REFER TO ELECTRICAL SINGLE LINE DIAGRAM ON DWG. E-30 AND SDP RISER ON DWG. E-31 FOR SDP LOCATIONS AND DISTRIBUTION.
- PROVIDE CONDUIT AS PER RISER DETAIL #16 ON DWG. E-35 FOR BISORTER/TRISORTER CONTROL SYSTEM.
- ALL SUITE DOOR CONTACTS WILL COMPLETE WITH INTRUSION ALARM SYSTEM THAT CONTACT TO THE CONCIERGE STATION.
- DESIGNATED "LAUNDRY RECEPTACLE" AS DEFINED BY ESA CODE 16-1109(X11), 26-1109(5) AND ESA BULLETIN 26-26-0 (WITHIN 3M RADIUS OF LAUNDRY CLOSET). RECEPTACLE SHALL BE CONNECTED TO A DEDICATED CIRCUIT. SEE DETAIL #14 ON DWG. E-35.
- INSTALL 91DE-MOUNTED RECEPTACLE ON KITCHEN ISLAND CABINET.



**MOUNTING HEIGHT SCHEDULE**  
(DIMENSIONS ARE FROM FINISH FLOOR TO TOP OF WALL BOX)

OUTLET	SUITES	PUBLIC AREA
RECEPTACLE	18" FFF	18" FFF
KITCHEN COUNTER SPLIT RECEPTACLE	46" FFF	46" FFF
TV/TELEPHONE (MULTI-PORT) OUTLET	18" FFF	18" FFF
LIGHT SWITCH	38" FFF	38" FFF
SECURITY PANEL	62" F.F.F	62" F.F.F
WALL THERMOSTAT	62" F.F.F	62" F.F.F
FRIDGE RECEPTACLE	TO SUIT EQUIPMENT	
MICROWAVE/FAN UNIT RECEPTACLE	LOCATE IN UPPER CABINET ABOVE	
UNDER CABINET LIGHTING RECEPTACLE	LOCATE IN UPPER CABINET ABOVE MICROWAVE / FAN UNIT	
INTERCOM	41" FFF	
FIREFIGHTER'S HANDSET	41" FFF	
PULL STATION	41" FFF	

**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
- CANDED CEILING LIGHT OUTLET
- TRACK LIGHT
- STRIP LIGHT
- UNDER CABINET FLUORESCENT LIGHT FIXTURE
- CEILING MOUNTED WALL MOUNTED EXIT SIGN
- EMERGENCY LIGHT, EMERGENCY LIGHT RECEPTACLE
- EMERGENCY BATTERY PACK
- OCCUPANCY SENSOR POWER PACKS
- 1/4" / 1" SINGLE/THREE POLE SINGLE/THREE THROUGH SINGLE SWITCH RESPECTIVELY
- 1/4" / 1" / 1" (3/4" / 1" / 1" DENOTES 3-WAY + 4-WAY/PLUG LIGHT, OTHER 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
- 3-1ØR 1-ØT DUPLEX RECEPTACLE
- SINGLE RECEPTACLE TYPE AND CONFIGURATION AS SPECIFIED FOR DRIVER
- CONNECTION FOR OVERCLOCKTOP
- ABOVE COUNTER DEVICE
- CEILING MOUNTED DEVICES
- FLOOR MOUNTED DEVICES
- DISCONNECT SWITCH, NON-FUSED
- DISCONNECT SWITCH, FUSED
- COMBINATION SWITCH
- FRACTIONAL MOTOR/FAN DIRECT CONNECTION
- DIRECT CONNECTION, SINGLE PHASE
- DIRECT CONNECTION, THREE PHASE
- THERMOSTAT
- DRYER 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 SUITE TELECOM BOX C/W 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 RECEIVER
- 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 SMOKE DETECTOR
- FIRE ALARM HEAT DETECTOR
- FIXED TYPED 8" SQUARE HEAT DETECTOR
- MOISTURE PROOF HEAT DETECTOR
- CO ALARM
- COMBINATION SPOKE & CO ALARM
- CO SENSOR / NO SENSOR
- FIRE ALARM MANUAL PULL STATION
- PREPARED HANDSET
- FIRE ALARM STROBE/ORN 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**

NO.	DATE	DESCRIPTION

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK. THE DRAWING IS THE PROPERTY OF THE ENGINEER AND IS NOT TO BE REPRODUCED OR COPIED WITHOUT THE WRITTEN CONSENT OF THE ENGINEER.

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DRAWING FILE: 14/F FLOOR PLAN ELECTRICAL LAYOUT

PROJECT FILE: ALEXANDRA PARK

XXXX TORONTO ONTARIO

DRAWN BY: S.O. CHECKED BY: S.T. SCALE: 1:50

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