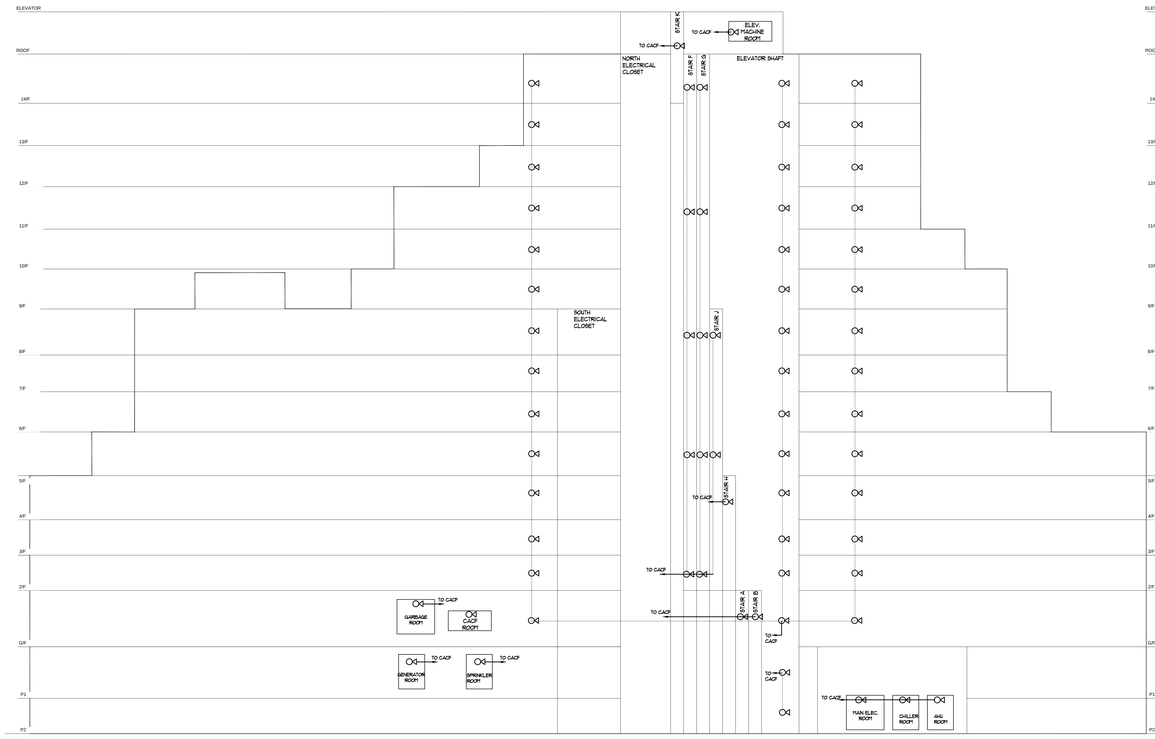
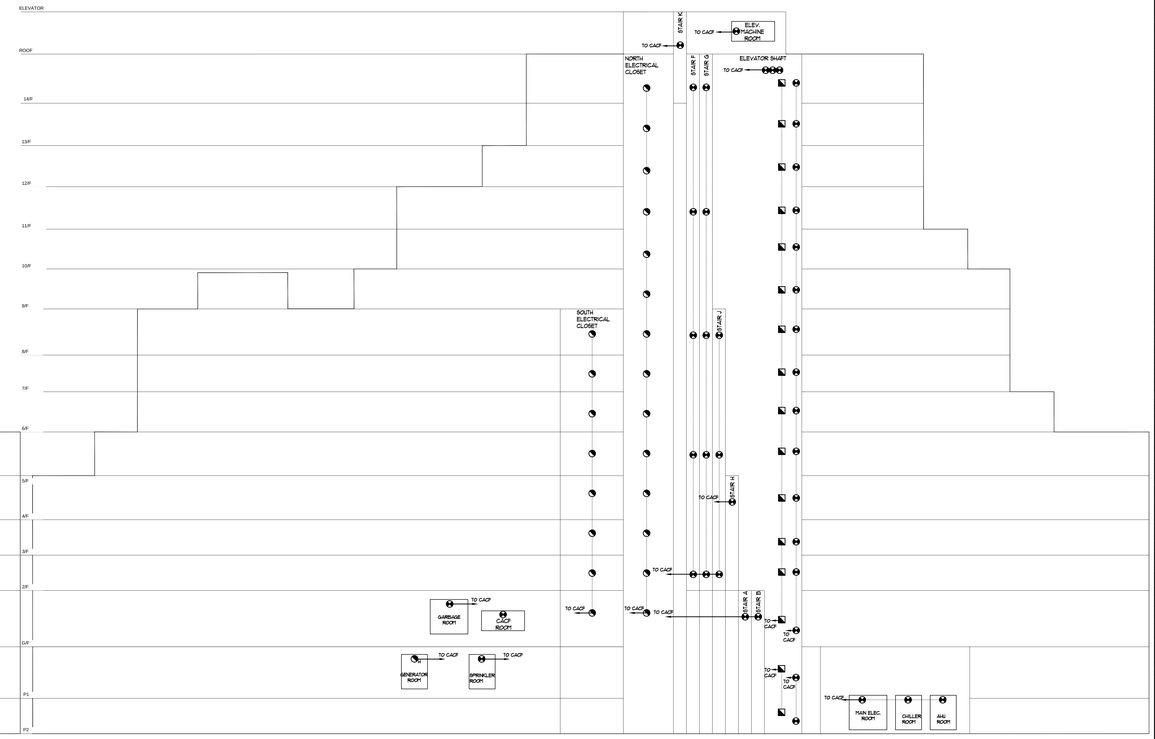


SUITE DISTRIBUTION RISER DIAGRAM



SUITE DISTRIBUTION RISER DIAGRAM

KEY NOTES:

1. TYPICAL FIRE ALARM ADDRESSABLE LOOP WIRING TO F.A.C.P. ALL FIRE ALARM RISERS SHALL BE RUN IN 2-HOUR FIRE RATED ELECTRICAL CLOSETS.
   NUMBER OF DEVICES PER LOOP MUST NOT EXCEED 80% OF MAXIMUM ALLOWABLE DEVICES AS SPECIFIED BY THE FIRE ALARM MANUFACTURER.
2. AUDIBLE DEVICES LOCATED WITHIN SUITES ARE WIRED ON SEPARATE SIGNAL CIRCUITS THAN AUDIBLE DEVICES SERVING THE PUBLIC CORRIDORS, AS SUCH, THE FIRE ALARM SYSTEM WILL BE PROVIDED WITH AN AUTOMATIC DUELLING UNIT SIGNAL SILENCE FEATURE. THIS FEATURE WILL SILENCE THE AUDIBLE DEVICES WITHIN DUELLING UNITS OUTSIDE OF THE ZONE OF ALARM INITIATION ONLY (CORRIDOR DEVICES TO REMAIN SOUNDING) AFTER A MINIMUM OF 60 SECONDS OF OPERATION.
3. PROVIDE MANUAL ON/OFF SWITCHES AT CACF FOR FIREFIGHTERS TO CONTROL SHUTDOUN OF FANS.
4. PROVIDE A SINGLE STAGE, NON-CODED FIRE ALARM SYSTEM.

FIRE ALARM GENERAL NOTES

1. AUDIBLE DEVICES LOCATED WITHIN SUITES ARE WIRED ON SEPARATE SIGNAL CIRCUITS FROM AUDIBLE DEVICES SERVING THE PUBLIC CORRIDORS.
2. IN-SUITE FIRE ALARM AUDIBLE DEVICES WITHIN THE BUILDING ARE REQUIRED TO BE CONNECTED TO THE FIRE ALARM SYSTEM IN A MANNER SUCH THAT AN OPEN CIRCUIT AT ONE DEVICE (IE, DISCONNECTION OR DAMAGE) WILL NOT INTERFERE WITH THE ABILITY OF OTHER DEVICES IN OTHER DUELLING UNITS, PUBLIC CORRIDORS OR SUITES TO SOUND AN ALARM (3.2.4.9.(1)(d)). THESE FIRE ALARM AUDIBLE DEVICES ARE PERMITTED TO BE CONNECTED TO THE FIRE ALARM SYSTEM VIA CLASS A WIRING, OR VIA CLASS B WIRING WITH SIGNAL CIRCUIT ISOLATORS LOCATED OUTSIDE OF THE SUITES (A-3.2.4.9.(1)f).
3. AUDIBLE SIGNAL DEVICES ARE REQUIRED TO BE WIRED ON SEPARATE CIRCUITS ON EACH FLOOR AREA. AUDIBLE SIGNAL DEVICES SERVING DUELLING UNITS OR SUITES OF RESIDENTIAL OCCUPANCY ARE REQUIRED TO BE WIRED ON A SEPARATE CIRCUIT FROM THOSE DEVICES NOT WITHIN SUITES OF RESIDENTIAL OCCUPANCY OR DUELLING UNITS. (3.2.4.9.(1)).
4. ALL WIRING FOR FIRE ALARM SYSTEM SHALL BE IN ACCORDANCE WITH DESIGN SPECIFICATIONS 16120, PART 4 4 ONTARIO ELEC. SAFETY CODE.
5. PROVIDE WIRING FOR ALL SPRINKLER FLOW SWITCHES AND ALL SUPERVISED VALVES AND CONNECT INTO THE PROPER ZONES. CO-ORDINATE WITH SPRINKLER CONTRACTOR PRIOR TO ORDERING OF FIRE ALARM EQUIPMENT.
6. EACH SOURCE OF POWER SUPPLY SHALL BE CAPABLE OF OPERATING THE ENTIRE SYSTEM INDEPENDENTLY UNDER ALARM CONDITIONS.
7. PULL STATIONS TO BE INSTALLED IN CORRIDORS ADJACENT TO STAIR ENTRANCES.
8. PROVIDE CONNECTION OF FIRE ALARM SYSTEM TO LOCAL FIRE DEPARTMENT OR ULC LISTED OFF-SITE CENTRAL MONITORING AGENCY AS PER ULC-S561.
9. PROVIDE CONNECTION OF FIRE ALARM SYSTEM TO LOCAL FIRE DEPARTMENT OR ULC LISTED OFF-SITE CENTRAL MONITORING AGENCY AS PER ULC-S561.
10. FOR EXACT QUANTITY AND LOCATION OF DEVICES, REFER TO FLOOR PLANS.
11. PROVIDE ALL NECESSARY RELAYS TO START ALL STAIR PRESSURIZATION FANS WHEN FIRE ALARM CONDITION OCCURS.
12. W/G SPEAKERS OR HORNS, 2W SET TAP, ALL OTHERS @ MINIMUM 1W.
13. PROVIDE MINIMUM 20% SPARE ZONES FOR SUPERVISORY, ALARM INITIATING ZONES AND VOICE/SIGNAL CIRCUITS.
14. RISER DIAGRAM IS PRESENTED AS CONVENTIONAL CLASS 'A' WIRING FOR ALL ZONES EXCEPT FOR THE FIRE PROTECTION DEVICES, WHICH SHALL BE CONNECTED IN A CLASS 'A' ADDRESSABLE LOOP. REFER TO "FIRE PROTECTION RISER SYSTEM SCHEMATIC" SHOWN ON DRAWING E-16 FOR CONNECTION DETAIL OF FIRE PROTECTION DEVICES: FLOW SW. (FS), PRESS. SW. (PS) + TAMPER SW. (SV).
15. FIRE ALARM SYSTEM SHALL HAVE PROVISIONS FOR TIE-IN TO "VIRTUAL CONCIERGE" SYSTEM.
16. FIRE ALARM RISER SHALL RUN IN 2 HOUR FIRE RATED ELECTRICAL CLOSET. REFER TO DWG. E-32 FOR RISER DIAGRAM AND DETAILS.

ELECTRICAL LEGEND

LIGHTING

	FLUORESCENT LIGHT FIXTURE, TYPE AS INDICATED
	NIGHT LIGHT OR LIGHT CONNECTED TO EMERGENCY POWER
/[X]	CEILING MOUNTED/WALL MOUNTED LIGHT FIXTURE, INDICATED LETTER DENOTES TYPE
	POLE MOUNTED LIGHT FIXTURE INDICATED LETTER DENOTES TYPE
	CAPPED CEILING LIGHT OUTLET
	TRACK LIGHT
	STRIP LIGHT
	UNDER CABINET FLUORESCENT LIGHT FIXTURE
/	CEILING MOUNTED/WALL MOUNTED EXIT SIGN
/	SINGLE/DUAL EMERGENCY LAMP REMOTE HEAD
	EMERGENCY BATTERY PACK
[OP]	OCCUPANCY SENSOR POWER PACKS
$, $, $, $P, $D	SINGLE/TWO/THREE POLE, SINGLE/TWO/THREE THROW TOGGLE SWITCH RESPECTIVELY, ('3','4','P','D' DENOTES 3-WAY, 4-WAY, PILOT LIGHT, DIMMER SWITCHED LIGHT RESPECTIVELY)
	MASTER LIGHTING SHUT-OFF SWITCH
	SENSOR WALL SWITCH PIR, SELF POWERED
	OCCUPANCY SENSOR, CEILING MOUNTED

POWER

	REGULAR DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE, GROUND FAULT INTERRUPT
	5-20R 'T-SLOT' DUPLEX RECEPTACLE
	SINGLE RECEPTACLE, TYPE AND CONFIGURATION AS SPECIFIED FOR DRYER
	CONNECTION FOR OVEN/COOKTOP
	ABOVE COUNTER DEVICE
	CEILING MOUNTED DEVICES
	FLOOR MOUNTED DEVICES
	DISCONNECT SWITCH, NON-FUSED
	DISCONNECT SWITCH, FUSED
	COMBINATION STARTER
	FRACTIONAL MOTOR/FAN DIRECT CONNECTION
	DIRECT CONNECTION, SINGLE PHASE
	DIRECT CONNECTION, THREE PHASE
	THERMOSTAT
[DS]	DRYER SENSOR
	HEAT TRACE
[EH]	ELECTRICAL HEATER
/	ELECTRICAL PANEL / SECURITY PANEL

TELECOMMUNICATION

	TV/CABLE OUTLET
	TELEPHONE OUTLET
/	TELEPHONE/TV CABLE (*MULTI-PORT OUTLET)
	DATA OUTLET
	DATA/TELEPHONE OUTLET
[CB]	IN SUITE TELECOMM. BOX C/W RECEPTACLE
[BT]	MPI LOCATION
[VD]	VIDEO INTERCOM
[RR]	RADIO RECEIVER

SECURITY

[IE] / [IM]	INTERCOM / ENTERPHONE
[IC]	INTERCOM WITH CAMERA
[PB] / [PIM]	PANIC BUTTON / PANIC INTERCOM STATION
[CR]	CARD READER
[ARCA] / [ARR]	AUTOMATIC RELEASE CARD ACCESS/RADIO RECEIVER
[ES]	ELECTRIC STRIKE
[ML]	MAGLOCK
[DC] / [IC]	DOOR CONTACT / WINDOW CONTACT
[GB]	GLASS BREAK DETECTOR
[DO]	AUTOMATIC DOOR OPERATOR
[MD]	MOTION DETECTOR
[•]	PUSH BUTTON
	SECURITY CAMERA

LIFE SAFETY

	FIRE ALARM SMOKE DETECTOR
	SMOKE ALARM
	FIRE ALARM DUCT TYPE SMOKE DETECTOR
	FIRE ALARM HEAT DETECTOR
H	FIXED TEMP. 88 °C DEGREE HEAT DETECTOR
H	MOISTURE PROOF HEAT DETECTOR
	CO ALARM
	COMBINATION SMOKE & CO ALARM
CO / CO	CO SENSOR / NO SENSOR
	FIRE ALARM MANUAL PULL STATION
	FIREFIGHTER'S HANDSET
	FIRE ALARM SPEAKER/STROBE, WALL MTD.
	FIRE ALARM SPEAKER, WALL MTD.
	FIRE ALARM SPEAKER/STROBE CEILING MTD.
	FIRE ALARM SPEAKER, CEILING MTD.
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL

NO/INIT.	NO.	RE-ISSUED FOR TENDER	S.T.
09/09/14	3	ISSUED FOR TENDER	S.T.
07/08/14	2	RE-ISSUED FOR PERMIT	S.T.
29/08/14	1	ISSUED FOR PERMIT	S.T.
DATE	NO.	DESCRIPTION	BY

MARK VOID ALL PRINTS DATED PREVIOUS TO FINAL DATE ABOVE

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 MUST BE RETURNED UPON COMPLETION OF THE WORK.

DRAWINGS ARE NOT TO BE SCALED

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DRAWING TITLE:
FIRE ALARM
RISER DIAGRAM

PROJECT TITLE:
ALEXANDRA PARK

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TORONTO ONTARIO

DRAWN BY:	CHECKED BY:	SCALE:
S.O.	S.T.	N.T.S.
DATE: FEB. 13	PROJECT NUMBER: 1313	DRAWING NUMBER: E-32 OF

Drawing name: \\CADSERVER\Current Dwg\1313\1313 - Alexandra Park\DWG\1313E - 32 (FA RISER).dwg Plotted: Oct 31, 2014 - 3:37pm