

ELECTRICAL LEGEND

	EXIT SIGN
	COMBINATION EXIT SIGN WITH INTEGRAL BATTERY UNIT AND EMERGENCY LIGHTING BATTERY UNIT COMPLETE WITH DUAL REMOTE HEADS.
	EMERGENCY LIGHTING REMOTE HEAD(S)
	ELECTRICAL PANEL, SURFACE OR FLUSH RESPECTIVELY
	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR PANEL
	FIRE ALARM MANUAL PULL STATION
	FIXED TEMPERATURE HEAT DETECTOR
	RATE OF RISE HEAT DETECTOR
	PHOTOELECTRIC DUCT MOUNTED SMOKE DETECTOR, PROVIDE REMOTE INDICATOR LED LIGHT C/W LABEL IN ACCESSIBLE AREA, WHEN DETECTOR IS INSTALLED ABOVE CEILING OR INACCESSIBLE AREA (NOTE: INDICATOR LIGHT IS NOT ILLUSTRATED ON THE LAYOUT BUT SHALL BE SUPPLIED AND INSTALLED IN ACCESSIBLE AREA).
	FIRE ALARM SPEAKER
	COMBINATION FIRE ALARM SPEAKER AND STROBE LIGHT
	FIRE ALARM STROBE LIGHT
	DASHED LINE DENOTES EXISTING TO BE REMOVED UNLESS NOTED OTHERWISE
	DENOTES EQUIPMENT/DEVICE C/W WIREGUARD
	DENOTES WEATHERPROOF EQUIPMENT/DEVICE
	DENOTES EXPLOSION PROOF EQUIPMENT/DEVICE
	DENOTES EQUIPMENT/DEVICE TO BE REMOVED, REMOVE REDUNDANT CONDUIT AND WIRING TO SUIT
	DENOTES EXISTING EQUIPMENT/DEVICE TO BE RELOCATED
	EXISTING ELECTRICAL EQUIPMENT/DEVICE IN RELOCATED POSITION
	EXISTING ELECTRICAL EQUIPMENT/DEVICE TO BE REMOVED C/W WIRING & RACEWAYS
	NEW ELECTRICAL EQUIPMENT/DEVICE TO REPLACE EXISTING IN SAME LOCATION
	DENOTES NEW EQUIPMENT/DEVICE C/W CONDUIT & WIRING
	DENOTES EXISTING ELECTRICAL EQUIPMENT/DEVICE TO BE REPLACED

DRAWINGS LIST

DRAWING NUMBER	DESCRIPTION
E1	ELECTRICAL LEGEND, NOTES & SCHEMATIC
E2	EMERGENCY LIGHTING LAYOUT
E3	FIRE ALARM SYSTEM LAYOUT

SPECIFICATION SECTIONS LIST

SECTION NUMBER	DESCRIPTION
16000	INDEX
16010	ELECTRICAL GENERAL REQUIREMENTS
16050	BASIC MATERIALS & METHODS
16500	EMERGENCY LIGHTING SYSTEM
16700	FIRE ALARM SYSTEM

GENERAL NOTES

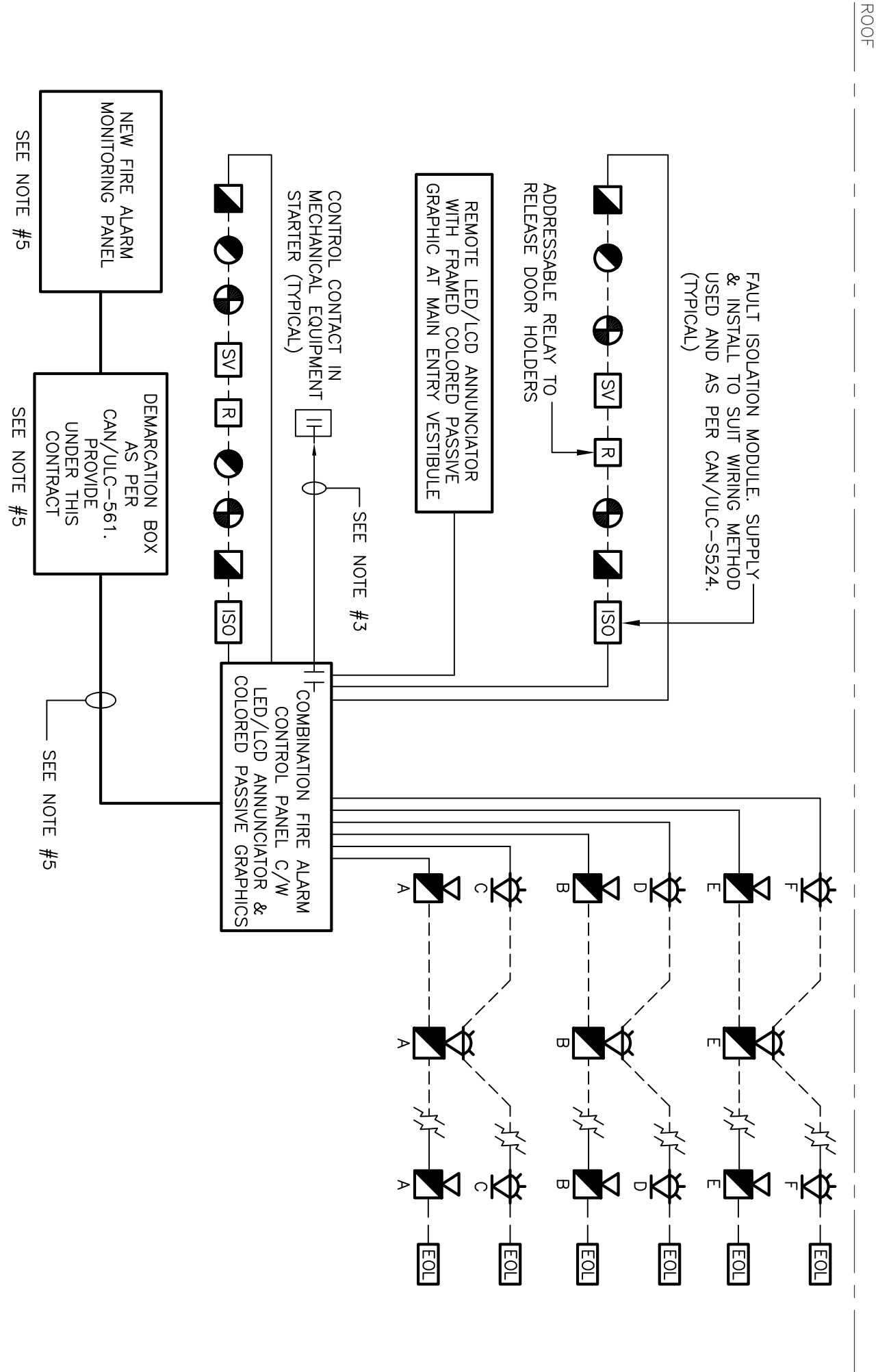
- IT IS MANDATORY FOR THE ELECTRICAL CONTRACTOR TO VISIT THE SITE PRIOR TO BEGINNING AND REVIEW EXISTING CONDITIONS AND DEMOLITION SCOPE OF WORK TO SUIT EXISTING ARCHITECTURAL, STRUCTURAL AND MECHANICAL SITE CONDITIONS, DRAWINGS, SPECIFICATIONS AND ALL CONTACT DOCUMENTS. NO EXTRA WILL SUBSEQUENTLY BE ALLOWED TO COVER ANY SUCH ERROR, OMISSION AND/OR OVERSIGHT FOR NOT HAVING MADE A THOROUGH INSPECTION OF THE DRAWINGS, EXISTING CONDITIONS, DRAWINGS, SPECIFICATION AND DESIGN INTENT. ELECTRICAL ANNUNCIATOR SHALL HAVE THE EXISTING BUILDING WITH AN EXISTING POWER SUPPLY AND OPERATING OPERATION OF THE BUILDING TO BE CARRIED OUT AFTER HOURS OR AT A TIME CONVENIENT TO THE BUILDING MANAGEMENT. PROVIDE TEMPORARY SERVICES AS REQUIRED TO ENSURE CONTINUED OPERATION AT ALL TIMES.
- CAREFULLY EXAMINE OTHER EXISTING UTILITY LINES SUCH AS GAS, WATER ETC. PRIOR TO START THE ELECTRICAL CONSTRUCTION WORKS AND COORDINATE WITH OTHER TRADES AND REPORT OF ANY DISCREPANCY PRIOR TO PROCEEDING.
- IT IS MANDATORY THAT ELECTRICAL WORK CONFORM TO ALL APPLICABLE CODES (INCLUDING THE ONTARIO BUILDING, FIRE, AND ONTARIO ELECTRICAL SAFETY CODE), BASE BUILDING (BOARD) STANDARDS, AND THE STANDARDS SET BY ANY AND ALL LOCAL AUTHORITIES HAVING JURISDICTION.
- LOCATIONS OF ALL NEW DISCONNECT SWITCHES AND STARTERS SHALL BE COORDINATED WITH DIVISION 15 PRIOR TO INSTALLATION. STARTERS FOR EXHAUST FANS SHALL BE SUPPLIED AND INSTALLED BY DIV. 15.
- ALL ELECTRICAL WORK SHALL BE INSPECTED BY THE ELECTRICAL SAFETY AUTHORITY (ESA), AGENCIE AND PAY FOR ALL INSPECTIONS REQUIRED FOR THE DURATION OF THE PROJECT.
- THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR HIRING A FIRE WICH AS REQUIRED BY CODE, LOCAL AUTHORITIES HAVING JURISDICTION, AND DURING ANY ALTERATION OR DOWNTIME OF THE FIRE ALARM SYSTEM, FIRE WHICH SHALL BE PRESENT THROUGHOUT THE DOWNTIME DURATION.
- THE ELECTRICAL CONTRACTOR SHALL LABEL ALL NEW AND EXISTING LIGHT SWITCHES, RECEPTACLES AND JUNCTION BOXES CONSPICUOUSLY WITH THE PANEL NAME AND BREAKER IT IS FED FROM. ALL LABELING OF ELECTRICAL DEVICES SHALL BE DONE SO WITH A LABEL MARKER ONLY, NO HAND WRITTEN LABELS WILL BE PERMITTED.
- WHERE NEW PANELS ARE BEING CONSTRUCTED, ALL WIRING AND RACEWAYS SHALL BE EMBEDDED IN THE CONSTRUCTION OF THE NEW WALLS AND ALL BOXES SHALL BE RECESSED. WHERE NEW DEVICES/SYSTEMS ARE PROPOSED ON EXISTING BLOCK WALLS, CUT PATCH & FINISH FOR COVERED INSTALLATION FOR SHORT RUNS ONLY WHERE SUCH RECESS MOUNTING IS NOT FEASIBLE, UTILIZE WIREMOLD AND/TO STUDS AS BACKUP FOR ALL NEW WIRING. PROVIDE WIREMOLD OR BE-CAST ALUMINUM PANNED BOXES FOR SURFACE MOUNTING, WIREMOLD APPLICATIONS. THE USE OF SHELTER METAL BOXES WILL NOT BE PERMITTED.
- IN THE EVENT OF ANY DISCREPANCY BETWEEN THE ELECTRICAL DRAWINGS AND SPECIFICATIONS, ALLOW FOR THE HIGHEST-PRICED OPTION IN THE TENDER PRICE.
- ALL WIRING USED ON THIS PROJECT SHALL BE RHM IN RACEWAYS, NO USE OF REMOVED (BY) CABLE WILL BE PERMITTED WITH THE EXCEPTION OF RUNS NOT TO EXCEED 3'-0" BETWEEN A LIGHT FIXTURE AND THE RESPECTIVE JUNCTION BOX INSTALLED ABOVE THE LIGHT FIXTURE.
- ALL WORK DONE BY DIVISION 16 OR BY A SUBCONTRACTOR OF DIVISION 16 SHALL BE FIRE-STOPPED BY A SPECIALT HIBED BY DIVISION 16, THE COSTS OF WHICH SHALL BE INCLUDED FOR IN THE TENDER PRICE. PROVIDE A LETTER, IF REQUESTED, CERTIFYING COMPLIANCE OF ALL FIRE-STOPPING BY A PROFESSIONAL AUTHORIZED TO REVIEW THE FIRE-STOPPING WORK.
- NEW WORK SHALL NOT COMMENCE PRIOR TO COMPLETION OF DEMOLITION BY ALL TRADES. THE INSTALLATION OF NEW SYSTEMS (INCLUDING CONDUIT) SHALL TAKE PLACE IN STRICT COORDINATION WITH OTHER DISPLAYS TO AVOID CONFLICTS. ANY WORK REQUIRING REMOVAL AND REINSTALLMENT SHALL BE DONE AT NO COST TO THE OWNER WHEN SUCH CHANGES ARE REQUIRED AS A RESULT OF SITE COORDINATION ISSUES.
- FIRE ALARM SYSTEM SHALL BE SINGLE STAGE, WHEN AN ALARM SIGNAL IS ACTIVATED, THE PROPOSED NEW FIRE ALARM SYSTEM CANNOT BE AUTOMATICALLY SILENCED BEFORE A PERIOD OF TIME HAS ELAPSED THAT IS NOT LESS THAN 20 MINUTES
- ACTIVATION OF AN INPUT DEVICE SUCH AS A FIRE DETECTOR, PULL STATION OR A SPRINKLER FLOW SWITCH SHALL RESULT IN THE FOLLOWING:
  - PROVIDE AN ALARM SIGNAL OPERATION THROUGHOUT THE BUILDING.
  - CAUSE CONTINUOUS AUDIBLE SIGNAL TO BE INITIATED AT THE FIRE ALARM CONTROL PANEL.
  - OPERATE ANCUARY CIRCUITS SUCH AS ALARM CONTACTS FOR OUTSIDE SUPERVISION.
  - VENTILATION SYSTEM SHUTDOWN.
  - SHUTDOWN EXISTING LAMP AT ALL THE FIRE ALARM CONTROL PANEL, DESPITE AND THE ANNUNCIATORS TO BE ILLUMINATED WHERE APPLICABLE. THIS LAMP SHALL REMAIN LIT UNTIL THE SYSTEM IS RESET TO ITS NORMAL CONDITION.
  - CAUSE THE AREA OF ALARM (ZONE) TO ILLUMINATE ON THE LED DISPLAYS OF REMOTE ANNUNCIATOR PANEL.
  - CAUSE DEVICE AND ADDRESS INFORMATION TO DISPLAY ON THE SYSTEM LCD DISPLAYS OF THE FIRE ALARM CONTROL PANEL.
- ACTIVATION OF A TROUBLE SIGNAL OR A SUPERVISORY SIGNAL FROM BUILDING SHALL RESULT IN THE FOLLOWING:
  - AN AUDIBLE TROUBLE SIGNAL SHALL SOUND AT THE FIRE ALARM CONTROL PANEL AND INDICATE ON THE ANNUNCIATORS. THE AUDIBLE TROUBLE INDICATOR MAY BE SILENCED BUT SHALL SOUND FOR A SUBSEQUENT CONFERENCE THE TROUBLE STATUS SHALL REMAIN ACTIVE UNTIL THE SYSTEM IS RESET TO ITS NORMAL.
  - OPERATE TROUBLE CONTACT FOR OUTSIDE SUPERVISION.
  - SHUTDOWN EXISTING LAMP AT ALL THE FIRE ALARM CONTROL PANEL, DESPITE AND THE ANNUNCIATORS TO BE ILLUMINATED WHERE APPLICABLE. THIS LAMP SHALL REMAIN LIT UNTIL THE SYSTEM IS RESET TO ITS NORMAL CONDITION.
  - CAUSE DEVICE AND ADDRESS INFORMATION TO DISPLAY ON THE SYSTEM LCD DISPLAYS OF THE FIRE ALARM CONTROL PANEL.

FIRE ALARM ANNUNCIATOR PANEL SCHEDULE

ZONE	ALARM/TROUBLE ZONE NUMBER	DESCRIPTION
✓	TROUBLE	
✓	FZ-1	EAST WING
✓	FZ-2	CENTER WING
✓	FZ-3	WEST WING
✓	FZ-4	SPACE
✓	FZ-5	SPACE
✓	FZ-6	SPACE
✓	FZ-10	SPACE
✓	FZ-1	SPACE
✓	FZ-1	SPACE
✓	FZ-5	SPACE
✓	FZ-5	SPACE

FIRE ALARM SYSTEM NOTES

- THE SCOPE OF WORK SHALL BE, BUT NOT LIMITED TO, THE FOLLOWING:
- SUPPLY AND INSTALL A NEW FIRE ALARM CONTROL PANEL, ANNUNCIATOR, DEVICES, AND WIRING AS SHOWN ON THE DRAWINGS.
  - PROVIDE FIRE ALARM SHUTDOWN SIGNAL TO ALL SUPPLY AND RETURN FANS AND EXHAUST FANS SERVING MULTIPLE SPACES UPON GENERAL FIRE ALARM. DRAWING DOES NOT SHOW ALL EQUIPMENT. INCLUDE FOR SHUTDOWN SIGNAL, FOR AN ADDITIONAL FIVE (5) SUCH EQUIPMENT.
  - PROVIDE FIRE ALARM SHUTDOWN SIGNAL TO SUPPLY AIR UNIT UPON ACTIVATION OF DUCT MOUNTED SMOKE DETECTOR AND GENERAL ALARM.
  - INCLUDE FOR THE SUPPLY, INSTALLATION, AND VERIFICATION OF THREE (3) HEAT DETECTORS, THREE (3) SMOKE DETECTORS, FIVE (5) SPEAKER/STROBE SIGNAL DEVICES, TWO (2) PULL STATIONS AND TWO (2) SPRINKLER SYSTEM CONNECTIONS AND MODULES C/W 150 FEET OF CONDUIT AND WIRING FOR EACH OF THE STATED DETECTOR AND SIGNAL DEVICE. LOCATION SHALL BE INSTRUCTED ON SITE BY CONSULTANT AND/OR BUILDING INSPECTOR UPON BEST INSTALLATION COMPLETION AND VERIFIED. INCLUDE FOR TWO SEPARATE VERIFICATIONS FOR ADDITIONAL DEVICES UPON BEST WORK COMPLETION.
  - INCLUDE IN THE TENDER PRICE FOR THE REMOVAL OF SIX (6) DEVICES C/W CONDUIT & WIRING IN ADDITION TO THOSE SHOWN ON THE DEMOLITION PLAN AND AS REQUIRED/DISCOVERED ON SITE.
  - ALL NEW DEVICES SHALL BE INSTALLED BEFORE EXISTING DEVICES WHERE POSSIBLE WHILE ENSURING LOCATIONS MEET CODE REGULATIONS AND MANUFACTURER RECOMMENDATIONS AND ARE CLEAR OF MAINTENANCE OBSTRUCTIONS. DO NOT USE EXISTING DEVICE LOCATIONS, REMOVE EXISTING DEVICES, CONDUIT, AND WIRING UPON INSTALLATION AND VERIFICATION OF THE NEW FIRE ALARM SYSTEM AND DEVICES.
  - ENSURE DEVICES ARE INSTALLED IN ACCESSIBLE LOCATIONS SUCH AS THE TOP OF THE STAIR LANDING (NOT STEPS) AWAY FROM BOLLERS, ARE HANDLING UNITS CLOSE TO WALLS (WITHIN WALLS) IN HIGH CEILING AREAS SUCH AS A COMMUNAL STAGE, ETC. MANUAL PULL STATIONS SHALL BE INSTALLED AT BARRIER FREE HEIGHT OF 1200 mm AFF TO THE CENTER OF THE PULL STATION.
  - ENSURE FIRE ALARM CONTROL PANEL IS C/W PRINTER CABLE, LAN CABLE, AND BYPASS SWITCH TO ALLOW VERIFICATION OF SYSTEM WITHOUT SHUTDOWN SIGNAL, ETC.
  - PROGRAM DEVICES IN ACCORDANCE WITH ACTUAL ROOM CORRIDOR, AND STAIR NUMBERS PRESENT AT THE BUILDING. CONSULT BUILDING STAFF FOR THE LATEST ROOM NUMBER SYSTEM ON SITE PRIOR TO PROGRAMMING. THE CONFIRMED ACTUAL SITE INFORMATION SHALL SPREADSHEET DATA SHOWN ON THESE DRAWINGS. OBTAIN SIGN-OFF FROM BUILDING STAFF AND CONSULTANT PRIOR TO PROGRAMMING. CONTRACTOR WILL BE RESPONSIBLE FOR EXPENSES INCURRED FOR CHANGES IN THE EVENT OF NON-COMPLIANCE.
  - ALONG WITH AS-BUILT DOCUMENTATION, PROVIDE ELECTRONIC VERSIONS OF SYSTEM POINTS AND DEVICES ADDRESS LIST.
  - FINAL LOCATION OF ALL DEVICES INCLUDING END OF LINE DEVICES AND ISOLATORS
  - ALL DEVICES TO BE CLEARLY LABELED WITH DEVICE TYPES AND ADDRESSES
  - LOCATION OF ALL PANELS, ANNUNCIATORS, AND REMOTE TROUBLE INDICATORS
  - LOCATION OF JUNCTION BOXES AND PULL BOXES
  - RISER DRUMING/SYSTEM BLOCK DRAWINGS.
  - OVERVIEW OF ALL PANEL, LOCATIONS, ANNUNCIATORS, AND REMOTE TROUBLE INDICATORS
  - LOCATION AND CIRCUIT NUMBER OF AC POWER SOURCES
  - PROVIDE AUDIBLE LEVEL (dB LEVELS) ON THE FLOOR PLANS THROUGHOUT THE BUILDING WITH CLOSED DOOR CONDITIONS UPON INSTALLATION AND VERIFICATION OF THE SYSTEM. MAKE ALLOWANCE TO ADJUST SPEAKERS TO LONGEST TAP SETTING AND/OR MOUNTING TO ENSURE AUDIBILITY LEVELS DO NOT EXCEED MORE THAN 90 dB IN SMALL ROOMS OR ROOMS WITH NON-ABSORBING SURFACES. PROVIDE INTEGRAL MOUNTING AS AVAILABLE FOR EXTERNAL COVERS (MOUNTS).
  - A FULL SYSTEM WARRANTY FOR A MINIMUM OF 12 MONTHS FROM THE DATE OF SUBSTANTIAL COMPLETION SHALL BE PROVIDED.
  - ALL DEVICES INSTALLED ON SITE (REGARDLESS OF NEW OR OLD) SHALL BE VERIFIED AND INCLUDED IN THE REPORT.
  - ALL DEVICES SHALL BE MARK FROM ANY OBSTRUCTION AND BE READILY ACCESSIBLE.
  - THE CONTRACTOR SHALL BE RESPONSIBLE TO RECTIFY ALL DEFICIENCIES TO BE REPORTED IN THE ANNUAL INSPECTION BY HOSE AFTER THE NEW SYSTEM IS INSTALLED.
  - THE CONTRACTOR SHALL BE RESPONSIBLE TO PERFORM A FULL EXTENSIVE WALK THRU DURING THE CLOSING MEETING.
  - THE CONTRACTOR/SYSTEM MANUFACTURER & VENDOR SHALL PROVIDE A 48 HRS TEST REPORT UNTIL ALL POSSIBLE ADJUSTMENT REQUIRED TO HOLD OR LOW TAP OF SPEAKERS, PROVIDE INTERNAL OR EXTERNAL MOUNTING AS REQUIRED TO MEET CODE REQUIREMENTS TO REDUCE SIGNAL CONDITIONS IN SMALL SPACES) CLEAR OF OBSTRUCTIONS FOR CONSULTANT'S REVIEW AND CONSIDERATION AFTER THE SYSTEM IS INSTALLED AND TWO WEEKS PRIOR TO THE INSPECTION WITH BUILDING DEPARTMENT
  - UPON COMPLETION OF INSTALLATION, THE CONTRACTOR SHALL CALL FOR INSPECTION BY CITY OFFICIALS. PROVIDE ALL LABOUR AND MATERIALS FOR TESTING AND INSPECTION UNTIL SIGNOFF IS PROVIDED BY BUILDING OFFICIALS.



- NOTES:
- REFER TO FLOOR PLANS FOR QUANTITIES AND LOCATIONS OF DEVICES. SCHEMATIC IS CONCEPTUAL AND DOES NOT SHOW ALL RISERS.
  - SUPPLY AND INSTALL NEW FIRE ALARM SYSTEM CONTROL PANEL, ANNUNCIATOR, DEVICES, AND WIRING AS SHOWN ON THE NEW SYSTEM FIRST. UPON COMMISSIONING OF THE NEW SYSTEM & RECHECKING OF ALL DISCONNECTS AND REMOVE EXISTING FIRE ALARM CONTROL PANEL, DEVICES, WIRING/CONDUITS, AND ANNUNCIATOR. PROVIDE TEMPORARY SERVICES AS REQUIRED TO ENSURE CONTINUED OPERATION AT ALL TIMES.
  - THE NEW FIRE ALARM CONTROL PANEL SHALL BE PROGRAMMED TO PRODUCE TEMPORAL PATTERN SOUND SIGNAL.
  - PROVIDE THREE (3) PAIRS OF FAS90 (MIN. #18AWG) IN 1/2" TO DEMARCATION BOX (SUPPLIED & INSTALLED AS PER CAN/ULC-561 UNDER THIS CONTRACT) FOR FIRE ALARM MONITORING. DEDICATED 15A, 120VOLT BRANCH CIRCUIT FROM PANEL P2, PROVIDE 1 x CATEGORY 5 FIBRE CABLE IN 3" TO TELEPHONE SERVICE AND 1 x CATEGORY 6 FIBRE CABLE IN 3" TO DATA BACK IN THE BUILDING. CONFIRM LOCATION ON SITE.

1 FIRE ALARM SYSTEM SCHEMATIC

E1 SCALE N.T.S.

**GENERAL NOTES :**

CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THE ENGINEER SHALL BE INFORMED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON THE DRAWINGS. CONTRACTORS SHALL NOT SCALE DRAWINGS. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION. THIS APPROVAL DOES NOT CONSTITUTE A GUARANTEE BY THE ENGINEER. THE ENGINEER'S LIABILITY IS LIMITED TO THE DESIGN AND SHALL NOT BE REPRODUCED WITHOUT THEIR PERMISSION AND UNLESS THE REPRODUCTION CARRIES THEIR NAME. ALL INFORMATION SHOWN ON PROJECT ONLY AND SHALL NOT BE USED FOR ANY OTHER PROJECT WITHOUT WRITTEN PERMISSION OF SURI & ASSOCIATES LTD.

7	ISSUED FOR PERMIT & TENDER	JULY 21,23
6	ISSUED FOR REVIEW	DEC. 20,22
5	ISSUED FOR TORONTO HYDRO REVIEW	APR. 29,22
4	ISSUED FOR REVIEW	DEC. 1,21
3	ISSUED FOR REVIEW	MAR. 15,21
2	REVISED PER COMMENTS	NOV. 8,19
1	ISSUED FOR DESIGN REVIEW	OCT. 10,19
NO	REVISION	DATE

Contractors shall verify all dimensions of the job.

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MECHANICAL  
COMMUNICATION  
SECURITY

SAL Project No. :19-214



Project  
**EASTVILLE TRAINING CENTRE**  
1 EASTVILLE AVENUE,  
TORONTO, ONTARIO.

**EMERGENCY LIGHTING & FIRE ALARM SYSTEM UPGRADE**

Drawing Title  
**ELECTRICAL LEGEND, NOTES AND SCHEDULES**

Checked: AB	Date: SEPT. 2019
Drawn: SS	Scale:
File Number:	Dwg Number: <b>E1</b> of 3





[illegible]

E4 SCALE: 3/32"=1'-0"

E4 / SCALE: 3/32"=1'-0"

1. ALL DEVICES SHOWN ON THIS DRAWING ARE NEW UNLESS OTHERWISE STATED. SUPPLY AND INSTALL NEW FIRE ALARM DEVICES, CONDUITS AND WIRING AS SHOWN ON THE DRAWING AND IN ACCORDANCE WITH THE SPECIFICATIONS. REFER TO BOOK SPECIFICATIONS FOR MORE DETAIL.
2. LOCATION OF DEVICES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL NOT USE EXISTING DEVICE POSITIONS. LOCATE ALL NEW DEVICES TO BEST SUIT SITE CONDITIONS, THE APPLICATION AND APPLICABLE CODE REQUIREMENTS.
3. DEVICES IN UNHEATED AREAS SHALL BE SUITABLE FOR WEATHERPROOF AND COLD TEMPERATURE RATED. LOCATE MODULES FOR ADDRESSABLE DEVICES IN HEATED AREAS.
4. WHERE POSSIBLE IN LIEU OF SURFACE MOUNT RACKWAY FOR SENSORS, STROBES AND SPEAKER/STROBE COMBO UNITS ON BLOCK WORK BELOW 1'-BAR CLIPPERS, FISH THE BLOCK USING FLEXIBLE ARMORED CABLE TO CONCEAL. THE WIRING IN THE BLOCK WORK, IN FINISHED AREAS, ALL RACKWAYS & BACKBOXES SHALL BE WIREROAD VARIO/VL00 SERIES. USE OF CAST ALUMINUM BACKBOXES (NO SHEET METAL BOXES WILL BE ACCEPTED), WHERE LARGER SIZE RACKWAYS ARE REQUIRED.
5. PROVIDE SILENTION SIGNAL TO VENTILATION UNITS (ALLOW FOR THREE (3) DOORSTOP EXHAUST FANS AND TWO (2) VENTILATION UNITS) UPON GENERAL ALARM LOGIC THROUGHOUT THE BUILDING. PROVIDE ALL REQUIRED CONDUITS AND RELAYS TO ACHIEVE SCOPE OF WORK. EXACT LOCATION TO BE DETERMINED ON SITE.
6. PROVIDE 15A, 120V, POWER CONNECTION FOR 120/208V DISTRIBUTION PANEL IN MAIN ELECTRICAL ROOM.
7. ALL SIGNAL CIRCUITS AND WIRING SHALL BE SIZED WITH MINIMUM 50% SPARE CAPACITY.

PROVIDE ONE (1) RATED TEMPERATURE HEAT DETECTOR AND SPEAKER SUITABLE FOR UNHEATED IN STORAGE ROOM ACCESSIBLE FROM ROOF ROOM.

PROVIDE SMOKE DETECTOR AT TOP OF STAIRCASE. EXACT LOCATION TO BE VERIFIED ON SITE.

Contractors shall verify all dimensions at the job.

SURI & ASSOCIATES LTD.  
ENGINEERING CONSULTANTS

# W Toronto

# FIRE ALARM SYSTEM LAYOUT

Checked: AB	Date: SEPT. 2019
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Drawn: SS  
Scale:

File Number:	Dwg Number:
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