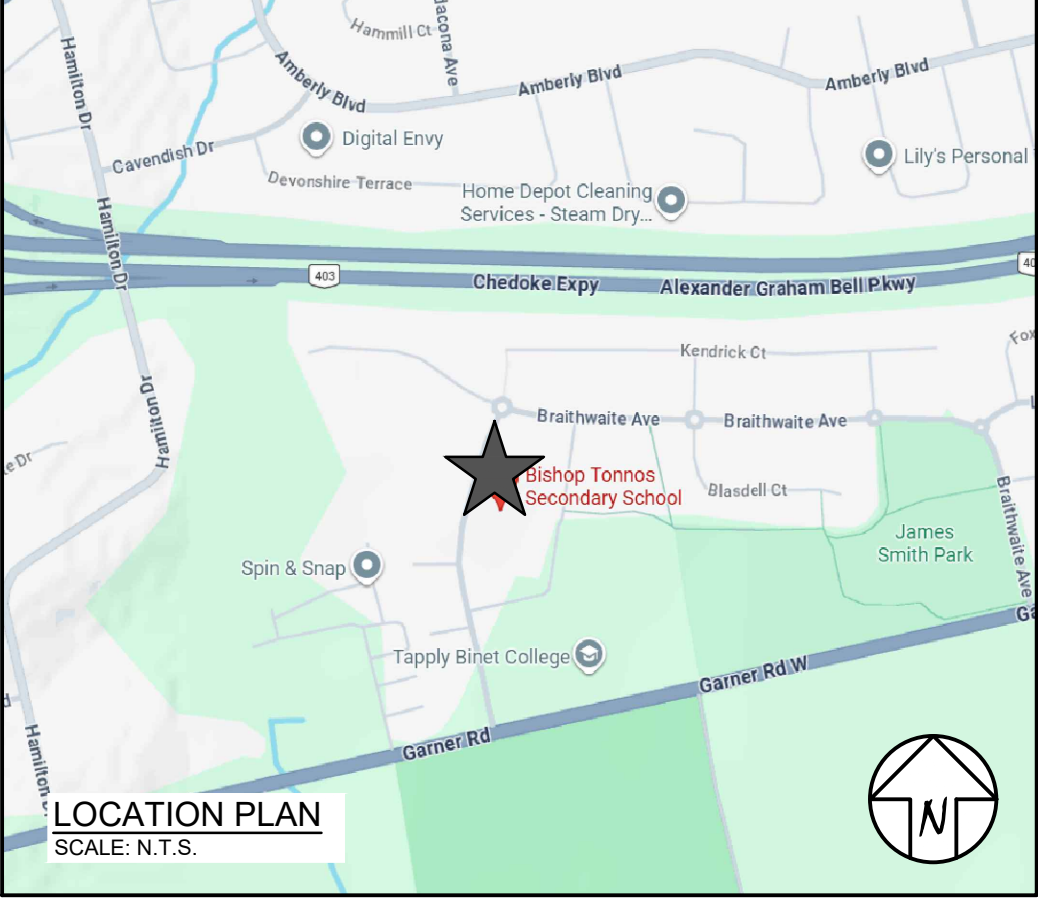


ELECTRICAL NOTES:

- ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH AUTHORITIES HAVING JURISDICTION OVER THE WORK.
- ALL WORK SHALL MEET OR EXCEED THE LATEST REQUIREMENTS OF THE CANADIAN ELECTRICAL CODE C22.1, THE ONTARIO HYDRO SAFETY CODE, THE ONTARIO BUILDING CODE AND THE ONTARIO FIRE CODE.
- ALL FIRE ALARM EQUIPMENT SHALL BE INSTALLED IN CONFORMANCE WITH THE LATEST EDITION OF CANULC - 5524M AND SHALL BE TESTED IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF CANULC - 5537M AND SHALL BE MONITORED IN ACCORDANCE WITH THE LATEST EDITION OF CANULC - 5561. ENSURE REQUIRED CLEARANCES FROM GRILLS, DIFFUSERS ETC. ALL EXISTING FIRE ANNUNCIATOR GRAPHICS TO BE UPDATED. REFER TO FIRE ALARM ZONING PLANS ON THIS DRAWING.
- ALL EMERGENCY / EXIT LIGHTING EQUIPMENT TO BE INSTALLED AND TESTED TO MEET THE LATEST REQUIREMENTS OF CSA C22.2 NO. 141-M.
- ALL EQUIPMENT AND LABOUR TO BE WARRANTED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK AS OUTLINED IN CONTRACT DOCUMENTS.
- ALL WIRING SHALL BE RW 90 COPPER WITH 300V OR 600V INSULATION SIZED ACCORDING TO THE APPLICATION. MINIMUM #12 AWG FOR POWER C/W CSA FT6 LABELED PLENUM RATED JACKET IF RUN EXPOSED IN CEILING SPACES.
- ALL WIRING SHALL BE RUN IN CONDUIT OR CABLE TO SUIT THE APPLICATION. CONDUIT SHALL BE EMT C/W STEEL BOXES IN CONCEALED LOCATIONS & SERVICE ROOMS. WHITE WIREMOLD C/W WIREMOLD BOXES IF EXPOSED IN STUDENT OR TEACHER AREAS AND PVC FOR IN-SLAB & UNDERGROUND APPLICATIONS.
- CONCEAL NEW WIRING WHEREVER POSSIBLE. AC TYPE MAY BE USED IN CEILING SPACES, WALL CHASES, ETC. SHORT RUN FROM OUTLET BOX TO DEVICE ONLY. ANY EXPOSED WIRING IN CEILING SPACES SHALL BE CSA FT6 RATED. SURFACE MOUNTED WORK IN ALL AREAS SHALL BE MINIMIZED. SEEK ARCHITECT'S AND ENGINEER'S APPROVAL.
- RETAIN BOARD'S SECURITY SUBCONTRACTOR TO SUPPLY, INSTALL, WIRE, PROGRAM AND TEST DEVICES AND WIRING. ELECTRICAL CONTRACTOR TO COORDINATE REQUIREMENTS AND PROVIDE 120V POWER, CONDUITS, RACEWAYS, OUTLET BOXES ETC. AS NECESSARY.
- RETAIN BOARD'S ACCESS CONTROL SUBCONTRACTOR TO SUPPLY, INSTALL, WIRE, PROGRAM AND TEST FOR READERS & DOOR STRIKES FOR ACCESS CONTROL. ELECTRICAL CONTRACTOR TO PROVIDE 120V POWER, CONDUITS, RACEWAYS, OUTLET BOXES ETC. AS NECESSARY.
- SUPPLY AND INSTALL PANEL BOARDS & BREAKERS, SWITCHES, RECEPTACLES, TRANSFORMER, TELEPHONE & DATA OUTLETS, EMERGENCY/EXIT LIGHTING, FIRE ALARM SYSTEM DEVICES & EQUIPMENT, P/A & CCTV EQUIPMENT, SECURITY & ACCESS CONTROL EQUIPMENT, INTERIOR LIGHT FIXTURES & CONTROLS, EXTERIOR BUILDING LIGHTING & CONTROLS ALL AS SHOWN ON THE DRAWINGS.
- PROVIDE POWER CONNECTIONS TO ALL HVAC EQUIPMENT AS SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR. SUPPLY AND INSTALL WEATHERPROOF DISCONNECTS AND LOCAL MEANS OF ISOLATION AS REQUIRED BY CODE. SUPPLY AND INSTALL CONTROL DEVICES INCLUDING CONTACTORS, RELAYS, LV CONTROL TRANSFORMERS, MOTOR RATED SWITCHES ETC. INDICATED ON MECHANICAL DRAWINGS AS PROVIDED BY ELECTRICAL CONTRACTOR. INSTALL AND WIRE THERMOSTATS AND CONTROLS SUPPLIED BY MECHANICAL CONTRACTOR. COORDINATE REQUIREMENTS WITH MECHANICAL CONTRACTOR AND EQUIPMENT SUPPLIER(S). REFER TO MECHANICAL EQUIPMENT SCHEDULES ON MECHANICAL DRAWINGS.
- CONTRACTOR TO PROVIDE WRITTEN OPERATING AND MAINTENANCE INSTRUCTIONS FOR BUILDING CARETAKER AND BOARD UPON COMPLETION OF THE WORK.
- CONTRACTOR SHALL PROVIDE IN-SERVICE TRAINING BY ALL EQUIPMENT SUPPLIERS TO INSTRUCT BUILDING CARETAKER AND BOARD DESIGNATED PERSONNEL ON THE CARE, OPERATION, TESTING AND MAINTENANCE OF NEW EQUIPMENT AND SYSTEMS.
- APPROPRIATE ELECTRONIC COPY SHOP DRAWINGS TO BE SUBMITTED TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO ORDER PLACEMENT.
- ALL CUTTING AND PATCHING FOR ELECTRICAL WORK SHALL BE BY THE GENERAL CONTRACTOR. THE REPAIR OF ALL OPENINGS MADE IN FIRE SEPARATIONS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. FILL ALL OPENINGS WITH APPROPRIATE LISTED FIRE STOP MATERIAL (SPRAY FOAM PRODUCTS NOT ALLOWED). ELECTRICAL CONTRACTOR TO LOCATE AND SIZE ALL OPENINGS REQUIRED. PROVIDE CONDUIT SLEEVES C/W NECESSARY FIRE STOP MATERIAL FROM CORRIDORS INTO ALL OFFICES, CLASSROOMS, ETC. AS REQUIRED FOR VARIOUS SERVICES.
- FIXTURE AND EQUIPMENT LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY. ELECTRICAL CONTRACTOR TO VERIFY SITE CONDITIONS PRIOR TO INSTALLATION AND REPORT DISCREPANCIES TO ARCHITECT AND ENGINEER. SEEK APPROVALS FOR DEVIATIONS PRIOR TO INSTALLATION. COORDINATE WORK WITH ALL OTHER TRADES.
- ELECTRICAL CONTRACTOR SHALL ARRANGE AND PAY FOR ALL NECESSARY PERMITS, INSPECTIONS AND VERIFICATIONS AS REQUIRED BY CODE INCLUDING ELECTRICAL SAFETY AUTHORITY INSPECTION, FIRE ALARM SYSTEM RE-VERIFICATION BY EQUIPMENT MANUFACTURER, FIRE MARSHALS TESTING AND LOCAL BUILDING DEPARTMENT REVIEW. PROVIDE COPIES OF ALL FINAL REPORTS AND CERTIFICATES INCLUDING THOSE LISTED ABOVE AND EMERGENCY/EXIT LIGHTING TESTING REPORT, THIRD PARTY SYSTEM INTEGRATION TESTING REPORT, LIGHTING CONTROLS COMMISSIONING REPORT BY EQUIPMENT SUPPLIER AND SEISMIC ENGINEER'S LETTER.
- PROVIDE ACCURATE TYPED INDEX CARDS IN ALL PANEL BOARDS. ALSO PROVIDE A COPY OF EACH INDEX IN THE PROJECT MANUAL. LABEL ALL ELECTRICAL EQUIPMENT WITH MECHANICALLY FASTENED LAMACOID NAMEPLATES WHITE WITH BLACK LETTERS DEPICTING VOLTAGE, PHASE, FEED BREAKER NUMBER & LOCATION AND DEVICE NAME.
- ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL AN EMPTY RACEWAY SYSTEM FOR COMPUTER DATA WIRING INCLUDING CABLE TRAY, WIREMOLD WIREWAYS, OUTLET BOXES AND CONDUITS TO CABLE TRAY SYSTEM C/W PULL-CORDS ALL AS SHOWN.
- DATA SUBCONTRACTOR SHALL SUPPLY AND INSTALL CAT 6 CSA FT-6 LABELED COMPUTER DATA DROP CABLES HOME RUN TO SERVER ROOM, DATA JACKS, TERMINATIONS AT BOTH ENDS, RELAY RACK, PATCH PANEL(S), PATCH CORDS, LOCAL SERVER ROOM WIRE MANAGEMENT AND TESTING TO BOARD'S SPECIFICATIONS AND STANDARDS. DATA SUBCONTRACTOR TO ALSO SUPPLY AND INSTALL CAT3 TELEPHONE CABLES HOME RUN TO TELEPHONE BACKBOARD, JACKS AND TERMINATIONS AT BOTH ENDS.
- ELECTRICAL CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS WITH DATA SUBCONTRACTOR AND BOARD'S INFORMATION & COMMUNICATION TECHNOLOGY DEPARTMENT PRIOR TO INSTALLING ANY OUTLETS, CONDUIT ETC.
- ELECTRICAL CASH ALLOWANCES:** THE ELECTRICAL CONTRACTOR SHALL CARRY THE FOLLOWING CASH ALLOWANCES WITHIN THE ELECTRICAL TENDER COST INCLUDING STANDARD CHARGES FOR OVERHEAD AND PROFIT. WRITTEN AUTHORIZATION REQUIRED FROM ENGINEER PRIOR TO THE ELECTRICAL CONTRACTOR UTILIZING ANY AMOUNT OF THIS CASH ALLOWANCE. THE OWNER RESERVES THE RIGHT TO DIRECT ANY ADDITIONAL ELECTRICAL WORK BE CHARGED AGAINST THIS CASH ALLOWANCE.
 - \$3,000.00 FOR DECORATIVE LIGHTING FIXTURES.



ELECTRICAL LEGEND:

- FLUORESCENT OR LED LIGHT FIXTURE. NL DENOTES NIGHT LIGHT CIRCUIT. LETTER DENOTES TYPE.
- INCANDESCENT, FLUORESCENT, LED OR EXTERIOR DOWN LIGHT FIXTURE OR PENDANT LIGHT FIXTURE. LETTER DENOTES TYPE.
- METAL HALIDE OR LED EXTERIOR WALL PACK OR POLE MOUNT LIGHT FIXTURE. LETTER DENOTES TYPE.
- SINGLE POLE LIGHT SWITCH, WHITE DECORA STYLE C/W STAINLESS STEEL COVER PLATE. 3 DENOTES 3-WAY. D DENOTES DIMMER HUBBELL OR EQUAL. T DENOTES 0 - 60 MIN. TIMER. K DENOTES KEY LEVER ACTUATED TYPE. M DENOTES MOTOR RATED TOGGLE TYPE SWITCH C/W OVERLOAD HEATERS, PILOT LIGHT & LAMACOID NAMEPLATE. F DENOTES CEILING FAN SPEED CONTROL. PB DENOTES PUSH BUTTON FOR BUZZER. PL DENOTES C/W PILOT LIGHT. OS DENOTES PASSIVE INFRARED OCCUPANCY SENSOR TYPE HUBBELL OR EQUAL. MH = 1220mm (4'-0") AFF OR IN MCP AS NOTED.
- DUPLEX RECEPTACLE, WHITE DECORA STYLE C/W STAINLESS STEEL COVER PLATE. G DENOTES GROUND FAULT INTERRUPTER TYPE. S DENOTES SPLIT CIRCUIT. C DENOTES SEPARATE CIRCUIT. T DENOTES 20A T-SLOT TYPE. K DENOTES MOUNTED IN KICK SPACE. WP DENOTES "IN-USE" WEATHERPROOF COVER. MH = 460mm (1'-6") AFF OR IN MCP AS NOTED.
- AS ABOVE EXCEPT MH = 150mm (0'-6") ABOVE COUNTER. P DENOTES MOUNTED ON COUNTER IN PEDESTAL BOX. HUBBELL CAT. # SC3098A, SS309DS OR EQUAL.
- OUTLET FOR MOTOR, MECHANICAL OR PACKAGED EQUIPMENT. MOUNTING TO SUIT EQUIPMENT. VOLTAGE AND CURRENT RATING PER CIRCUIT NUMBER.
- BREAKER PANEL BOARD, SURFACE WALL MOUNT IN SERVICE ROOMS. RECESSED WALL MOUNT IN PUBLIC AREAS. MH = 1830mm (6'-0") TO TOP AFF.
- EEMAC FUSED OR UNFUSED DISCONNECT SWITCH. WP DENOTES WEATHER PROOF. SIZED TO THE APPLICATION. IEC TYPE FOR MECHANICAL EQUIPMENT. MH = 1525mm (5'-0") AFF OR TO SUIT EQUIPMENT.
- CONTACTOR FOR LIGHTING OR MECHANICAL EQUIPMENT CONTROL C/W AUXILIARY CONTACTS. SIZE, VOLTAGE AND # OF POLES TO SUIT APPLICATION.
- 1500W (1.5K), 208V, 1PH ELECTRIC FORCED FLOW HEATER C/W BUILT IN THERMOSTAT BY ELECTRICAL CONTRACTOR. SURFACE MOUNTED. MH = 1000mm (3'-3") FROM ELEVATOR PIT FLOOR TO UNDERSIDE OF HEATER.
- TELEPHONE OUTLET BOX C/W 13mm (1/2") DIA. EMT CONDUIT AND PULL CORD TO CABLE TRAY IN CORRIDOR CEILING SPACE. RJ25 JACK. WIRING AND TERMINATIONS BY BOARD'S APPROVED DATA SUBCONTRACTOR. MH = 460mm (1'-6") AFF OR AS NOTED.
- COMPUTER DATA OUTLET BOX C/W 19mm (3/4") DIA. EMT CONDUIT AND PULL CORD TO CABLE TRAY IN CORRIDOR CEILING SPACE. 4 DENOTES QUAD T568 JACK AND 4 Cat 6 HOME RUN DATA CABLES TO SERVER ROOM. 2 DENOTES DOUBLE T568 JACK AND 2 Cat 6 HOME RUN CABLES. 1 OR NO # DENOTES SINGLE T568 JACK AND 1 Cat 6 HOME RUN CABLE. K DENOTES MOUNTED IN KICK SPACE. WP DENOTES WIRELESS ACCESS POINT. JACKS, WIRING, TERMINATION AND TESTING BY BOARD'S APPROVED DATA SUBCONTRACTOR. MH = 460mm (1'-6") AFF OR IN MCP OR IN WIREMOLD WIREWAY AS NOTED.
- MH DENOTES MOUNTING HEIGHT. AFF DENOTES ABOVE FINISHED FLOOR LEVEL. EX DENOTES EXISTING EQUIPMENT. REX DENOTES RELOCATED EXISTING EQUIPMENT.

FIRE ALARM LEGEND:

- EXISTING RED FIRE ALARM HORN C/W RED SKIRT, SURFACE MOUNTED IN OUTLET BOX. C DENOTES C/W WIRE GUARD. MH = 2286mm (7'-6") AFF. (MINIMUM 152mm (0'-6") BELOW FINISHED CEILING). SIMPLEX.
- EXISTING RED COMBINATION FIRE ALARM HORN AND INTEGRAL STROBE FLASH UNIT C/W RED SKIRT, SURFACE MOUNTED IN OUTLET BOX. C DENOTES C/W WIRE GUARD. MH = 2286mm (7'-6") AFF. (MINIMUM 152mm (0'-6") BELOW FINISHED CEILING). SIMPLEX.
- EXISTING ADDRESSABLE SINGLE STAGE RED MANUAL PULL STATION, FLUSH OR SURFACE MOUNTED IN RED OUTLET BOX. C DENOTES C/W LEXAN COVER. MH = 1219mm (4'-0") AFF. SIMPLEX.
- NEW OR EXISTING ADDRESSABLE COMBINATION FIXED TEMPERATURE (135 deg.F) AND RATE-OF-RISE HEAT DETECTOR, CEILING MOUNTED. PROVIDE RELAY BASE AS REQUIRED. SIMPLEX.
- NEW OR EXISTING ADDRESSABLE PHOTO ELECTRIC SMOKE DETECTOR, CEILING MOUNTED. SIMPLEX TO MATCH EXISTING.
- EXISTING REMOTE MULTI-ZONE FIRE ALARM ANNUNCIATOR PANEL, FLUSH MOUNT C/W LCD DISPLAY, ALARM, TROUBLE & STATUS LEDS, KEY-SWITCH, TEST & RESET PUSHBUTTONS, ZONE INDICATOR LEDS AND UPDATED PASSIVE GRAPHIC ZONING DIAGRAM WALL MOUNTED UNDER PLEXI-GLASS. MH = 1524mm (5'-0") AFF. SIMPLEX.
- EXISTING SINGLE STAGE, NON-CODED, ADDRESSABLE FIRE ALARM CONTROL PANEL C/W 24 HOUR EMERGENCY BATTERY BACKUP, ALARM & TROUBLE LOG, STATUS & TROUBLE LEDS, CONNECTION, LOCKABLE SURFACE MOUNTED CABINET AND UPDATED PASSIVE GRAPHIC ZONING DIAGRAM UNDER PLEXI-GLASS. MH = 1524mm (5'-0") AFF. SIMPLEX MODEL 4100U C/W NECESSARY REMOTE FIELD ISOLATOR MODULES.

NOTE: BASE BID FIRE ALARM EQUIPMENT MANUFACTURER IS **SIMPLEX OR COMPATIBLE** TO MATCH EXISTING.

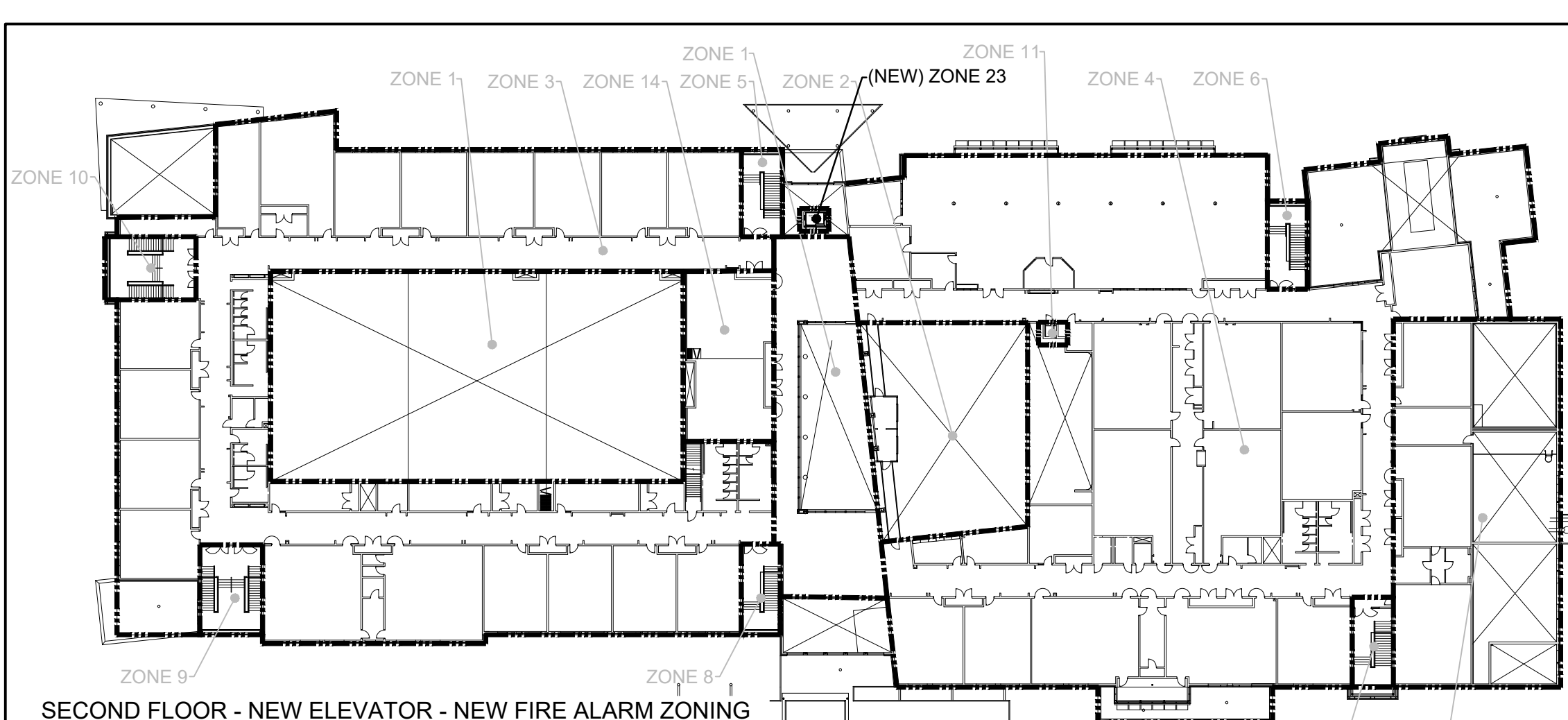
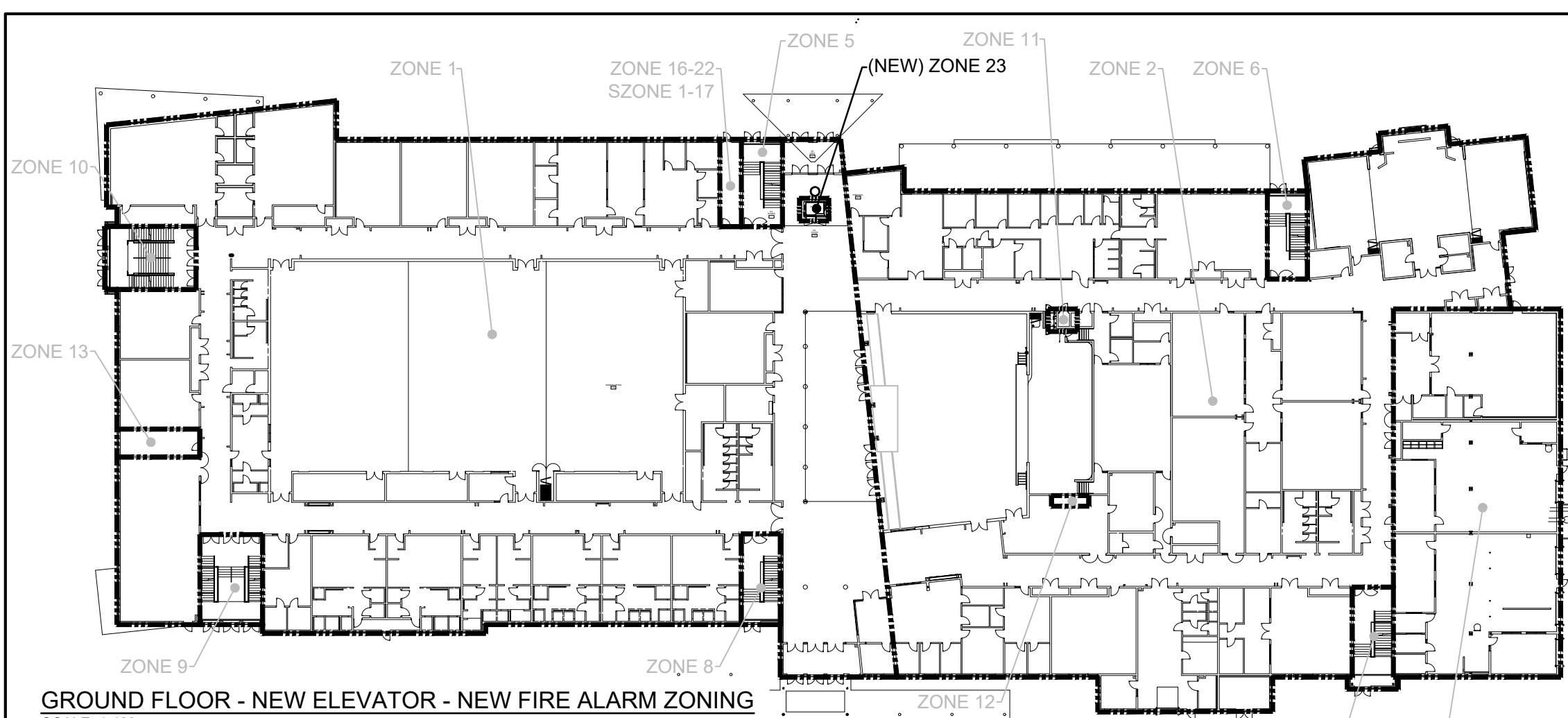
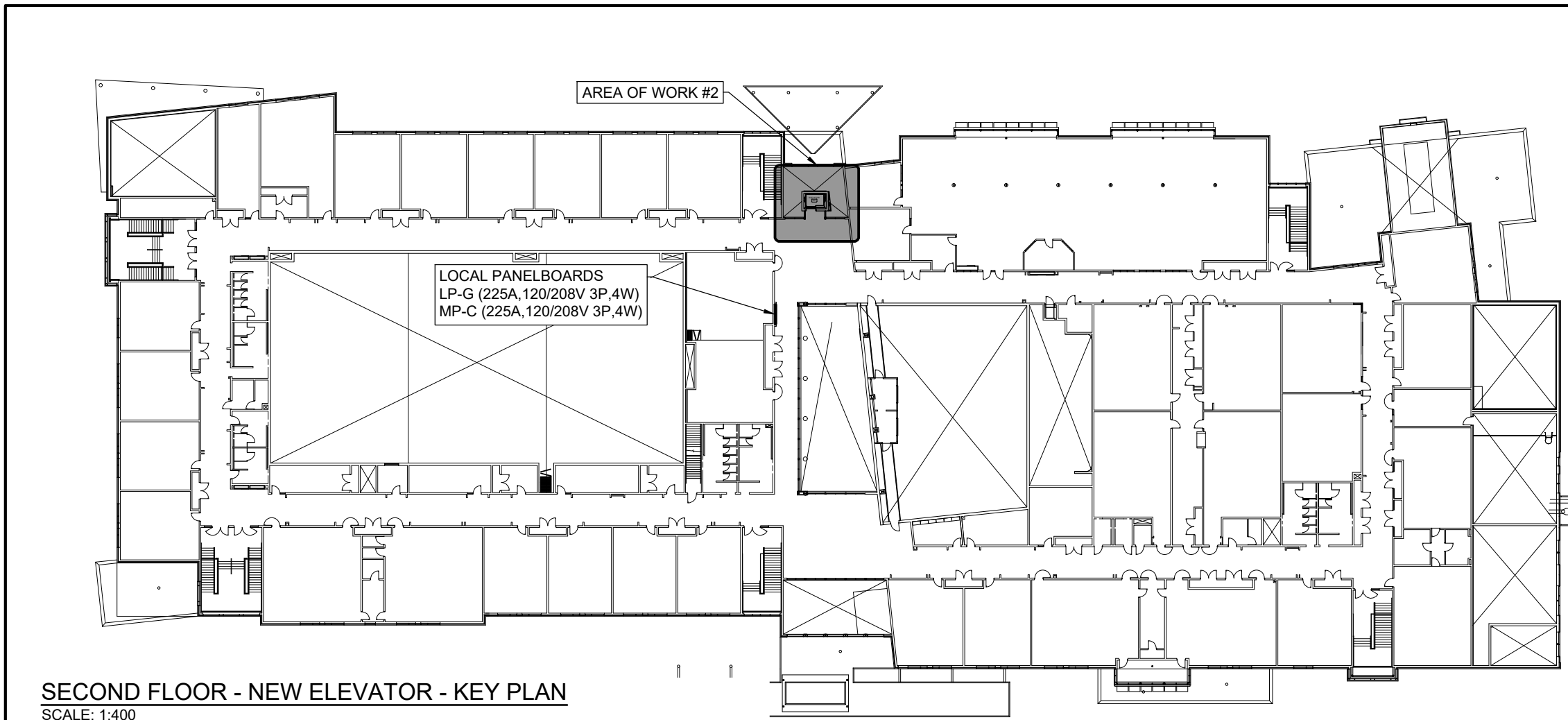
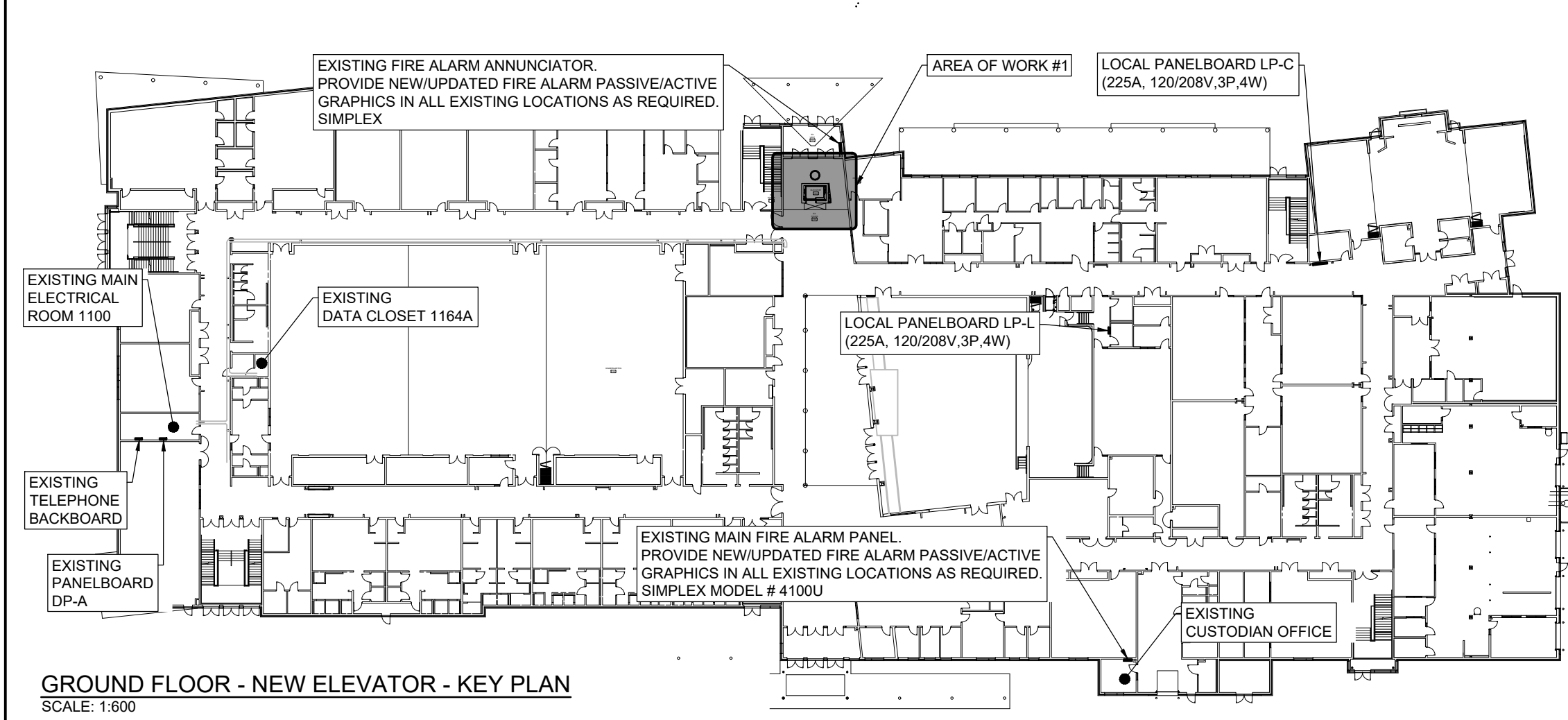
EXISTING FIRE ALARM SYSTEM - ALARM ZONES

DESCRIPTION	ZONE	ZONE	DESCRIPTION
GROUND FLOOR SOUTH	1	13	BASEMENT OUTDOOR STORAGE
GROUND FLOOR NORTH	2	14	MECHANICAL ROOM
SECOND FLOOR SOUTH	3	15	SHOPS 1047 & 1052 NORTH
SECOND FLOOR NORTH	4	16	OUTDOOR STORAGE SPRINKLER FLOW SWITCH
STAIR NO-01	5	17	GROUND FLOOR SOUTH SPRINKLER FLOW SWITCH
STAIR NO-02	6	18	GROUND FLOOR NORTH SPRINKLER FLOW SWITCH
STAIR NO-03	7	19	SECOND FLOOR SOUTH SPRINKLER FLOW SWITCH
STAIR NO-04	8	20	SECOND FLOOR NORTH SPRINKLER FLOW SWITCH
STAIR NO-05	9	21	MECHANICAL ROOM SPRINKLER FLOW SWITCH
STAIR NO-06	10	22	SHOPS 1047 & 1052 SPRINKLER FLOW SWITCH
BARRIER FREE ELEVATOR	11	23	MAIN LOBBY ELEVATOR
KITCHEN HOOD FIRE SUPPRESSION	12	24	

EXISTING FIRE ALARM SYSTEM - SUPERVISORY ZONES

DESCRIPTION	ZONE	ZONE	DESCRIPTION
MAIN INCOMING SPRINKLER SUPERVISORY VALVE	S1	S10	
GROUND FLOOR SOUTH SUPERVISORY VALVE	S2	S11	GROUND FLOOR SOUTH SPRINKLER LOW PRESSURE
GROUND FLOOR NORTH SUPERVISORY VALVE	S3	S12	GROUND FLOOR NORTH SPRINKLER LOW PRESSURE
SECOND FLOOR SOUTH SUPERVISORY VALVE	S4	S13	SECOND FLOOR SOUTH SPRINKLER LOW PRESSURE
SECOND FLOOR NORTH SPRINKLER SUPERVISORY VALVE	S5	S14	SECOND FLOOR NORTH SPRINKLER LOW PRESSURE
DUST COLLECTOR SPARK SUPPRESSION PANEL	S6	S15	OUTDOOR STORAGE SPRINKLER LOW PRESSURE
OUTDOOR STORAGE SPRINKLER SUPERVISORY VALVE	S7	S16	MECHANICAL ROOM SPRINKLER LOW PRESSURE
MECHANICAL ROOM SPRINKLER SUPERVISORY VALVE	S8	S17	SHOPS 1047 & 1052 SPRINKLER LOW PRESSURE
SHOPS 1047 & 1052 SPRINKLER SUPERVISORY VALVE	S9	S18	

* PROVIDE NEW FIRE ALARM ZONE C/W ALL NECESSARY/REQUIRED EXPANSION EQUIPMENT.



DRAWING LIST

- E0.01 KEY & FIRE PLAN - NOTES, LEGENDS & SCHEDULES
- E1.01 EXISTING SCHOOL - NEW WORK
- E1.02 GROUND & SECOND FLOOR AREA OF WORK #1 & #2 - DEMOLITION & NEW WORK - LIGHTING & LIFE SAFETY POWER & COMMUNICATIONS DETAILS
- E3.01 ELECTRICAL SPECIFICATIONS - 1 OF 2
- E3.03 ELECTRICAL SPECIFICATIONS - 2 OF 2

3	2026/08/25	ISSUED FOR CONSTRUCTION
2	2026/07/02	ISSUED FOR TENDER
1	2026/06/30	ISSUED FOR PERMIT
0	2026/05/12	ISSUED
A	2026/04/21	ISSUED FOR COORDINATION
No.	YYYY/MM/DD	DESCRIPTION

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ANCASTER ONTARIO

ELECTRICAL

KEY & FIRE PLAN -
NOTES, LEGENDS & SCHEDULES

SCALE	DRAWN	PROJECT No.
AS NOTED	G.J.L.	26-006
DATE	CHECKED	DRAWING No.
2026/04/07	K.S.	E0.01