

ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
LINETYPES	
	NEW WORK
	WORK TO BE DEMOLISHED, OR REMOVED
	EXISTING MATERIALEQUIPMENT/SERVICES TO REMAIN
ABBREVIATIONS	
E	EXISTING TO REMAIN
D	EXISTING TO BE DEMOLISHED/REMOVED
R	EXISTING TO BE RELOCATED/RELOCATED POSITION
ER	EXISTING TO BE REMAIN AND REPLACED WITH NEW
RR	REMOVE AND REINSTALL IN SAME POSITION
RL	REMOVE AND RELOCATE
C	CEILING MOUNTED CONNECTION
W	WALL MOUNTED CONNECTION
ℓ	CENTRE LINE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
OIC	OVER COUNTER
UC	UNDER CABINET
UF	UNDER RAISED FLOOR
CCT	CIRCUIT
CTE	CONNECT TO EXISTING
AFCI	ARC FAULT CIRCUIT INTERRUPTER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
IG	ISOLATED GROUND
TL	TWIST LOCK
TR	TAMPER RESISTANT
WG	WIRE GUARD
WP	WEATHER PROOF
RI	ROUGH-IN ONLY
NIC	NOT IN CONTRACT
SIM	SIMILAR TO
TYP.	TYPICAL
ABBREVIATIONS - CODES AND STANDARDS	
OBC	ONTARIO BUILDING CODE
OESC	ONTARIO ELECTRICAL SAFETY CODE
ANNOTATIONS	
	ROOM NUMBER
CL	CLOSET
WR	WASHROOM
FIRE PROTECTION	
	FIRE EXTINGUISHER
SPK	SPRINKLER HEAD
FHC	STANDPIPE FIRE HOSE CABINET
HVAC	
⊙	THERMOSTAT OR TEMPERATURE SENSOR
BBH	ELECTRIC BASEBOARD HEATER (BBH)
FFH	FORCED FLOW HEATER
ERV	ENERGY RECOVERY VENTILIATOR
HRU	HEAT RECOVERY UNIT
MJA	MAKE-UP AIR UNIT
CONDUIT AND BOXES	
	CONDUIT WITH END BUSHING
	CONDUIT UP
	CONDUIT DOWN
	JUNCTION BOX
	PULL BOX
CONNECTIONS TO EQUIPMENT	
DW	DISHWASHER
FR	FRIDGE
MW	MICROWAVE
HD	HAND DRYER. ALLOW UP TO 208V-1PH-20A
PSC	PLUMBING SENSOR CONTROL (TOUCHLESS FAUCETS)
PTP	PLUMBING TRAP PRIMER
⊕	1-PHASE DIRECT CONNECTION OUTLET AS NOTED.
⚡	3-PHASE DIRECT CONNECTION OUTLET AS NOTED.
W	ADJACENT TO 3-PHASE DIRECT CONNECTION. DENOTES WALL SYSTEM FURNITURE FEED FOR POWER AND COMMUNICATIONS.
⊙	SINGLE PHASE MOTOR, HP (KW) AS NOTED.
⊕	THREE PHASE MOTOR, HP (KW) AS NOTED.
⌚	CLOCK.
LIGHTING CONTROLS	
REFER TO SPECIFICATIONS AND RESPECTIVE SCHEDULES FOR EXACT REQUIREMENTS	
	SWITCH OR OTHER USER INTERFACE DEVICE AS DESCRIBED ON LIGHTING CONTROLS SCHEDULE.
DIM	ADJACENT TO SWITCH, DENOTES DIMMING SWITCH.
K	ADJACENT TO SWITCH, DENOTES KEY SWITCH.
M	ADJACENT TO SWITCH, DENOTES MASTER CONTROL FOR ALL LUMINAIRES IN A ROOM OR SPACE. OR AS NOTED.
PIR	WALL MOUNTED SWITCH/OCCUPANCY SENSOR. PIR DENOTES PASSIVE INFRARED, DT DENOTES DUAL PASSIVE INFRARED/ULTRASONIC. LINE VOLTAGE TO SUIT CONTROLLED CIRCUIT.
PP	POWER PACK
T	TIMER SWITCH.
⊕	CEILING MOUNTED OCCUPANCY SENSOR. PIR DENOTES PASSIVE INFRARED. UT DENOTES ULTRASONIC (OR MICROPHONIC), DT DENOTES DUAL TECHNOLOGY.
H⊕	WALL MOUNTED OCCUPANCY SENSOR.
DISTRIBUTION EQUIPMENT	
	SURFACE MOUNTED LIGHTING AND RECEPTACLE PANELBOARD
	RECESSED RECEPTACLE PANELBOARD
	DISCONNECT SWITCH
THIS LEGEND IS GENERIC. ALL SYMBOLS LISTED MAY NOT BE APPLICABLE FOR THIS PROJECT. REFER TO FLOOR PLANS TO DETERMINE USED DEVICES AND EQUIPMENT.	

ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
FUSED DISCONNECT SWITCH	
POWER RECEPTACLES AND BOXES	
	120V U-GROUND DUPLEX RECEPTACLE.
	120V U-GROUND DUPLEX RECEPTACLE - CONTROLLED (ASHRAE 90.1-2010, 8.4.2).
	120V U-GROUND QUAD RECEPTACLE.
	SPECIAL RECEPTACLE. VERIFY OUTLET REQUIREMENTS PRIOR TO ROUGH-IN.
	120V U-GROUND DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER TOP OR AS INSTRUCTED ON SITE.
LIGHTING FIXTURES	
SYMBOLS IN ACCORDANCE WITH IES DG-3-00 WHERE NOT DETAILED OTHERWISE HERE. REFER TO LIGHTING FIXTURE SCHEDULE FOR FURTHER DETAILS AND EXACT FIXTURE REQUIREMENTS.	
	SURFACE MOUNTED LINEAR LUMINAIRE
	RECESSED MOUNTED LUMINAIRE
	RECESSED DOWNLIGHT
Z1, Z2, ETC.	DENOTES ZONING/CIRCUITING ASSIGNMENTS FOR LUMINAIRES AND CONTROLS IN THE SAME SPACE.
EMERGENCY LIGHTING	
REFER TO EMERGENCY LIGHTING FIXTURE SCHEDULE FOR EXACT FIXTURE REQUIREMENTS.	
	CEILING OR WALL MOUNTED ILLUMINATED EXIT SIGN. SHADED AREA INDICATES ILLUMINATED FACE. PROVIDE DIRECTIONAL ARROWS AS INDICATED ON PLANS.
	EMERGENCY LIGHTING BATTERY UNIT.
	ONE AND TWO HEAD WALL MOUNTED EMERGENCY LIGHTING REMOTE UNITS.
EM	DENOTES "EMERGENCY"
COMMUNICATIONS	
	WALL MOUNTED DATA (D) OR VOICE (V) OUTLET. PROVIDE 1V AND 1D UNLESS NOTED OTHERWISE.
	WALL MOUNTED VOICE (TELEPHONE) OUTLET. PROVIDE 1V UNLESS NOTED OTHERWISE.
	WALL MOUNTED DATA OUTLET. PROVIDE 1D UNLESS NOTED OTHERWISE.
WAP	WIRELESS ACCESS POINT (WIFI)
	PUBLIC ADDRESS SPEAKER, CEILING AND WALL MOUNTED, RESPECTIVELY.
ACCESS CONTROL	
	CARD READER
	DOOR CONTACT
	ELECTRIC STRIKE
	MUSHROOM HEAD PUSH BUTTON FOR MAGLOCK RELEASE, OR OTHER PUSH BUTTON AS INDICATED
	BARRIER FREE DOOR OPERATOR PUSH BUTTON
INTRUSION DETECTION	
	GLASS BREAK (GB)
	MOTION DETECTOR (MD)
	KEYPAD (KP)
	SOUNDER
FIRE DETECTION AND ALARM	
FACP	FIRE ALARM CONTROL PANEL
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FAPG	FIRE ALARM PASSIVE GRAPHIC
FAZ	FIRE ALARM ZONE
FSZ	FIRE ALARM SUPERVISORY ZONE
EOL	END OF LINE DEVICE
WG	WIRE GUARD
	MANUAL PULL STATION (MPS)
CG	WHERE NOTED ADJACENT TO MANUAL PULL STATIONS, DENOTES PULL STATION C/W LEXAN COVER.
	FIRE ALARM HORN
	FIRE ALARM HORN/STROBE, WALL MOUNTED.
	FIRE ALARM WALL MOUNTED STROBE LIGHT
	PHOTOELECTRIC SMOKE DETECTOR
A	ADJACENT TO SMOKE DETECTOR, INDICATES C/W AUXILIARY RELAY
SA	WHEN ADJACENT TO PHOTOELECTRIC SMOKE DETECTOR, INDICATES RESIDENTIAL SMOKE ALARM
	DUCT MOUNTED SMOKE DETECTOR
	END OF LINE (EOL) DEVICE ON ZONE INITIATION OR SIGNAL CIRCUITS
IM	ISOLATOR MODULE
	HEAT DETECTOR - FIXED TEMPERATURE
	MAGNETIC DOOR HOLDER AND RELEASING DEVICE ("HOLD OPEN")
FS	FLOW SWITCH
PS	PRESSURE SWITCH
SV	SUPERVISED VALVE
SINGLE LINE DIAGRAM	
	CIRCUIT BREAKER
	DISCONNECT (UNFUSED)
	FUSE
	METER
	TRANSFORMER
C	CONTACTOR
DP	DISTRIBUTION PANELBOARD
PP	POWER PANELBOARD
SPD	SURGE PROTECTIVE DEVICE
SWBD	SWITCHBOARD
TX	TRANSFORMER
DETAIL REFERENCES	
	SHEET KEYNOTE
	REVISION NUMBER
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Sheet List Table	
Sheet Number	Sheet Title
ELECTRICAL LEGEND & SHEET LIST	
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E102	PARTIAL GROUND FLOOR DEMOLITION PLAN - POWER & SYSTEMS
E103	PARTIAL ROOF DEMOLITION PLAN - ELECTRICAL
E201	PARTIAL GROUND FLOOR NEW WORK PLAN - LIGHTING
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E301	FIRE ALARM DEMOLITION PLAN
E302	FIRE ALARM NEW WORK PLAN
E401	SCHEDULES & DETAILS - ELECTRICAL



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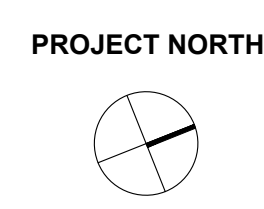
PROJECT:

Park Manor Public School - Phase 2 Renovations

DRAWING TITLE:

ELECTRICAL LEGEND & SHEET LIST

PROJECT NO: ED-20-301  
SCALE: NOT TO SCALE  
DRAWN BY: CW  
REVIEWED BY: TWS



DRAWING NO:

E001







**PROJECT GENERAL NOTES**

1 THIS DRAWING IS ISSUED TO SHOW PROPOSED SCOPE OF WORK ONLY. THE CONTRACTOR MUST PERFORM A SITE INSPECTION (INCLUDING CEILING SPACES) DURING THE TENDER PERIOD AND ENSURE THAT ALL WORK THAT IS VISIBLE IS INCLUDED IN THE DEMOLITION SCOPE OF WORK. ALL EXISTING SERVICES THAT PASS THROUGH THE RENOVATION AREA (UNLESS OBSOLETE) ARE TO BE MAINTAINED AND/OR RELOCATED TO SUIT THE SCOPE OF WORK.

**DEMOLITION KEY NOTES:**

- 1 EXISTING POWER AND DATA DEVICES FOR SAFE WELCOME MONITOR TO BE RELOCATED TO ACCOMMODATE RENOVATION WORK WITHIN OFFICE. BE RESPONSIBLE TO MODIFY EXISTING WIRING AND CABLING AS REQUIRED TO SUIT NEW LOCATION OF DEVICES AS SHOWN ON NEW WORK PLAN. ELECTRICAL CONTRACTOR SHALL ALSO RELOCATE EXISTING MONITOR.
- 2 EXISTING RECEPTACLE, TIME SWITCH AND PUBLIC ADDRESS SYSTEM HEAD END EQUIPMENT TO BE RELOCATED TO ACCOMMODATE RENOVATION WORK WITHIN OFFICE. BE RESPONSIBLE TO MODIFY EXISTING BRANCH CIRCUIT AND SYSTEM WIRING AS REQUIRED TO SUIT NEW LOCATION OF DEVICES AS SHOWN ON NEW WORK PLANS.



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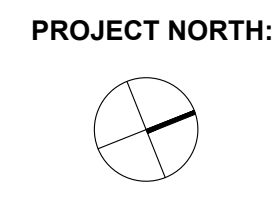
**PROJECT:**

**Park Manor Public School - Phase 2 Renovations**

**DRAWING TITLE:**

**PARTIAL GROUND FLOOR DEMOLITION PLAN - POWER & SYSTEMS**

**PROJECT NO:** ED-20-301  
**SCALE:** 1:100  
**DRAWN BY:** CW  
**REVIEWED BY:** TWS



**DRAWING NO:**

**E102**



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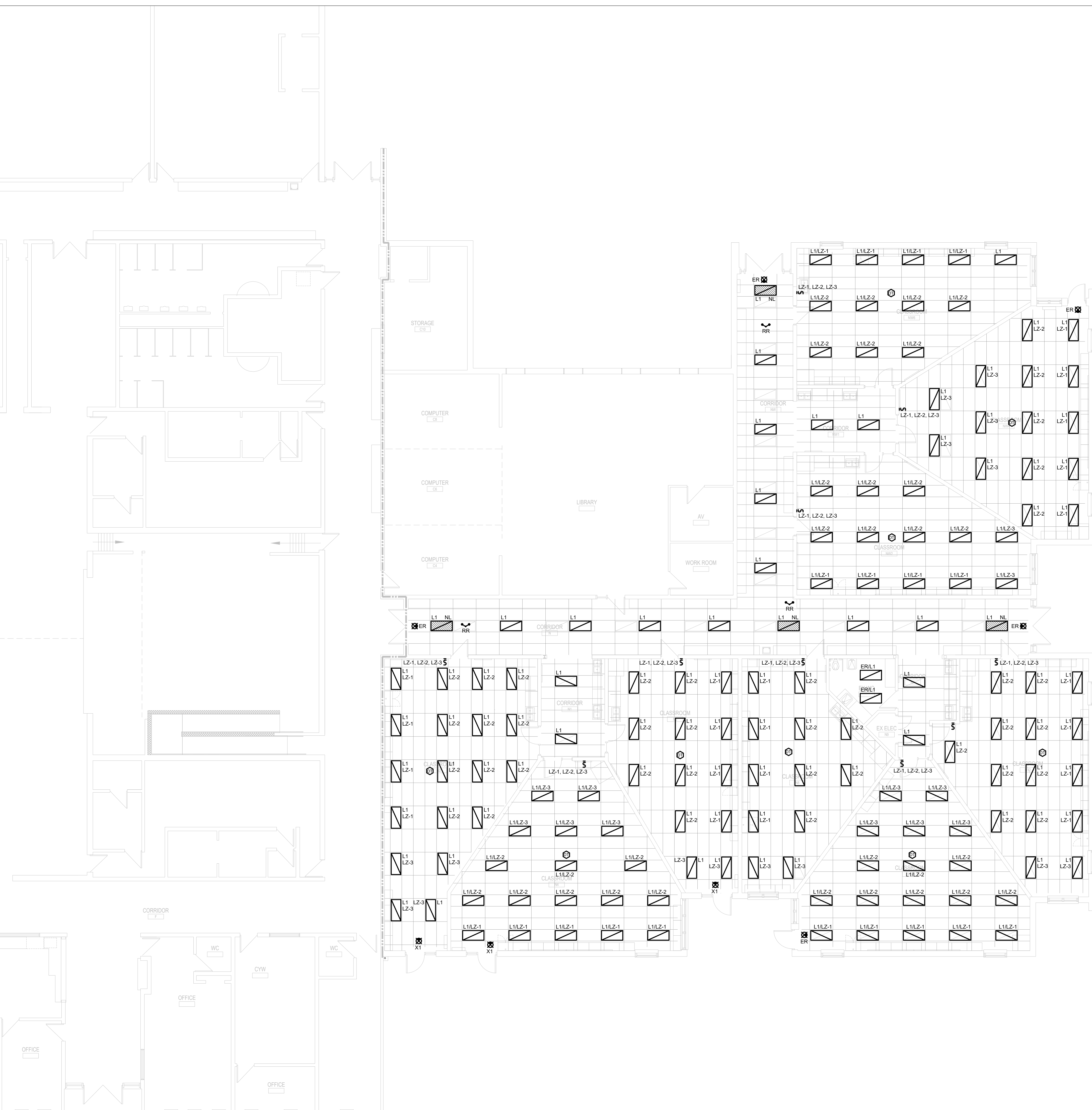
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**PROJECT GENERAL NOTES**

1. LOCATION OF DEVICES AND LUMINAIRES ARE NOTED FOR DIAGRAMMATIC PURPOSES. CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW ARCHITECTURAL ELEVATIONS AND REFLECTED CEILING PLANS AND SITE CONDITIONS FOR EXACT DEVICE AND LUMINAIRE PLACEMENT.
2. NEW DEVICES SHOWN ON EXISTING WALL CONSTRUCTION SHALL BE INSTALLED SURFACE MOUNTED ON F5 TYPE BACK BOXES WITH SURFACE RACEWAY (LEGRAND WIREMOLD 400 SERIES OR EQUIVALENT - WHITE), FROM DEVICE UP TO CEILING SPACE. CONDUIT SHALL BE PROVIDED ABOVE CEILING SPACE IN ALL LOCATIONS. COORDINATE INSTALLATION WITH GENERAL CONTRACTOR AND CURRENT HAZARDOUS MATERIALS SURVEY.
3. FOR NEW BRANCH CIRCUITS NOTED ON THE FLOOR PLANS, PROVIDE A NEW 15A-1P BREAKER WITHIN EXISTING PANEL INDICATED AND EXTEND NEW FEEDERS TO EXISTING PANEL AND CONNECT COMPLETE.

**NEW WORK KEY NOTES:**

1



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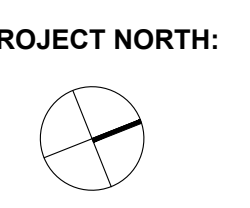
**PROJECT:**

**Park Manor Public School - Phase 2 Renovations**

**DRAWING TITLE:**

**PARTIAL GROUND FLOOR NEW WORK PLAN - LIGHTING**

**PROJECT NO:** ED-20-301  
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**DRAWN BY:** CW  
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**DRAWING NO:**

**E201**



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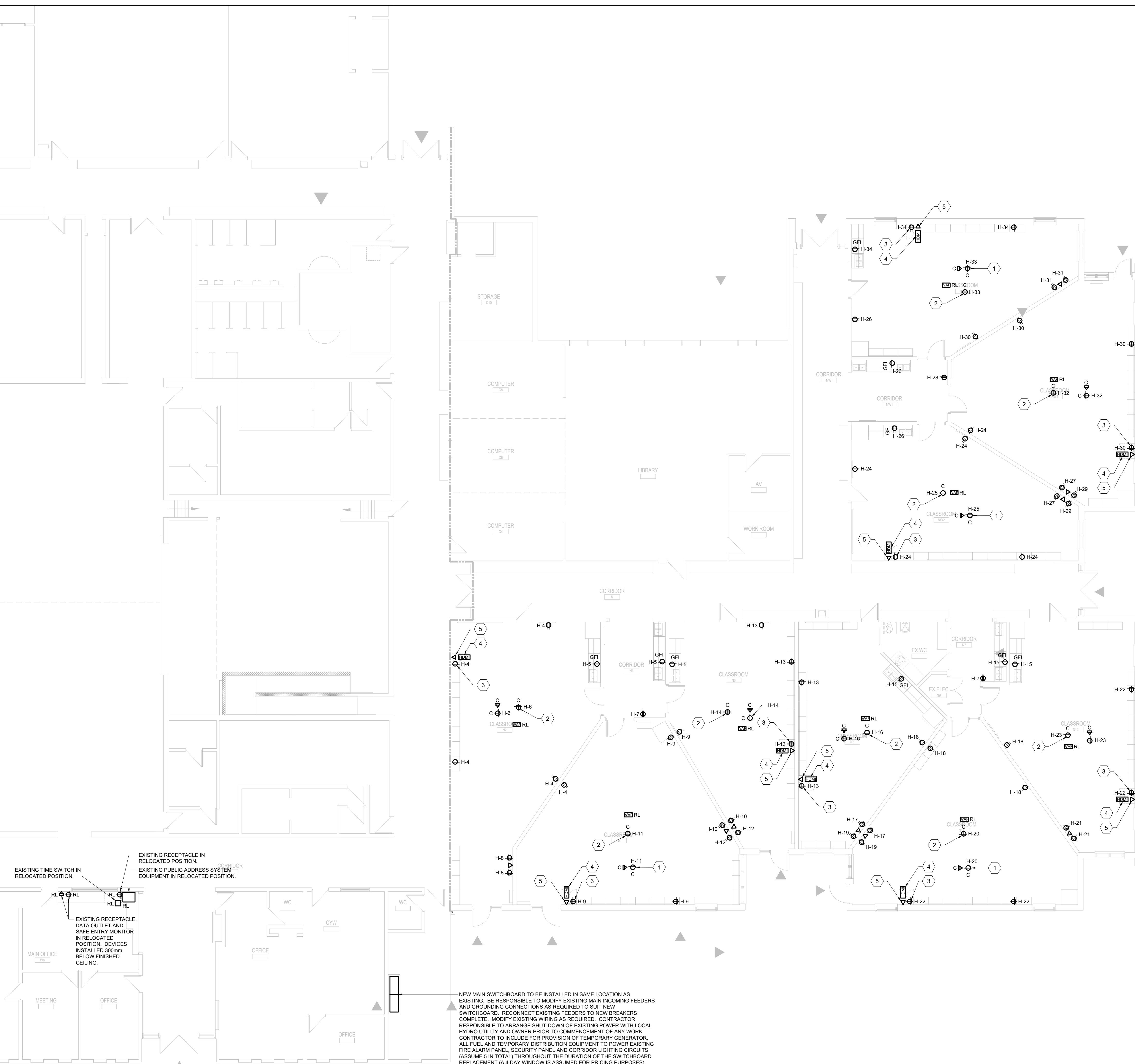
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**PROJECT GENERAL NOTES**

1. LOCATION OF DEVICES AND LUMINAIRES ARE NOTED FOR DIAGRAMMATIC PURPOSES. CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW ARCHITECTURAL ELEVATIONS AND REFLECTED CEILING PLANS AND SITE CONDITIONS FOR EXACT DEVICE AND LUMINAIRE PLACEMENT.
2. NEW DEVICES SHOWN ON EXISTING WALL CONSTRUCTION SHALL BE INSTALLED SURFACE MOUNTED ON FS TYPE BACK BOXES WITH SURFACE RACEWAY (LEGRAND WIREMOLD 400 SERIES OR EQUIVALENT - WHITE), FROM DEVICE UP TO CEILING SPACE. CONDUIT SHALL BE PROVIDED ABOVE CEILING SPACE IN ALL LOCATIONS. COORDINATE INSTALLATION WITH GENERAL CONTRACTOR AND CURRENT HAZARDOUS MATERIALS SURVEY.
3. FOR NEW BRANCH CIRCUITS NOTED ON THE FLOOR PLANS, PROVIDE A NEW 15A-1P BREAKER WITHIN EXISTING PANEL INDICATED AND EXTEND NEW FEEDERS TO EXISTING PANEL AND CONNECT COMPLETE.

**NEW WORK KEY NOTES:**

1. RECEPTACLE WITHIN CEILING SPACE FOR CEILING MOUNTED PROJECTOR. PROJECTOR TO BE SUPPLIED BY OWNER AND INSTALLED BY ELECTRICAL CONTRACTOR. CONTRACTOR RESPONSIBLE TO PROVIDE SUITABLE CEILING MOUNT SUPPORT BRACKET AND EXTENSION ARM FOR PROJECTOR. PROJECTOR MODEL TO BE SUPPLIED IS OPTOMA #ZW400. CONNECT RECEPTACLE TO BRANCH CIRCUIT NOTED WITH #10 + GROUND IN 21mm CONDUIT.
2. RECEPTACLE WITHIN CEILING SPACE FOR "TOP CAT" CEILING MOUNT AUDIO SYSTEM. AUDIO SYSTEM SUPPLIED BY OWNER AND INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR. CONNECT RECEPTACLE TO BRANCH CIRCUIT NOTED WITH #10 + GROUND IN 21mm CONDUIT.
3. RECEPTACLE AND "TOP CAT" AUDIO SYSTEM MEDIA CONNECTOR INSTALLED ABOVE MILLWORK UNIT. CONNECT RECEPTACLE TO BRANCH CIRCUIT NOTED WITH #10 + GROUND IN 21mm CONDUIT. PROVIDE SINGLE COMPARTMENT SURFACE RACEWAY ON FINISHED WALL FROM RECEPTACLE UP TO CEILING SPACE AND CONDUIT FROM CEILING TO PANELBOARD NOTED.
4. SINGLE GANG BACKBOX FOR HDMI WALL PLATE INSTALLED ABOVE MILLWORK UNIT. EXTEND SINGLE COMPARTMENT SURFACE RACEWAY FROM BACKBOX TO ABOVE CEILING AND 41mm CONDUIT. COMPLETE WITH PULL STRING. FROM SURFACE RACEWAY TO TERMINATE WITHIN CEILING SPACE ABOVE NEW PROJECTOR LOCATION. HDMI WALL PLATE AND WIRING TO BE SUPPLIED BY OWNER AND INSTALLED BY ELECTRICAL CONTRACTOR. COORDINATE WITH WRDSB I.T. DEPARTMENT DURING CONSTRUCTION.
5. SINGLE GANG BACKBOX FOR DATA OUTLET TO BE INSTALLED ABOVE MILLWORK UNIT. EXTEND SINGLE COMPARTMENT SURFACE RACEWAY FROM BACKBOX TO ABOVE CEILING. AND TERMINATE WITHIN CEILING SPACE OF ROOM. DATA OUTLET AND CABLING TO BE SUPPLIED AND INSTALLED BY WRDSB PREFERRED VENDOR. COORDINATE WITH WRDSB I.T. DEPARTMENT AND VENDOR DURING CONSTRUCTION.



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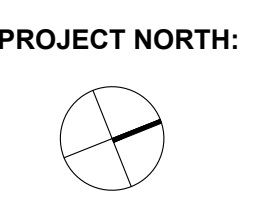
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Park Manor Public School - Phase 2 Renovations

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PROJECT NO: ED-20-301  
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**DRAWING NO:**

E202

NEW MAIN SWITCHBOARD TO BE INSTALLED IN SAME LOCATION AS EXISTING. BE RESPONSIBLE TO MODIFY EXISTING MAIN INCOMING FEEDERS AND GROUNDING CONNECTIONS AS REQUIRED TO SUIT NEW SWITCHBOARD. RECONNECT EXISTING FEEDERS TO NEW BREAKERS COMPLETE. MODIFY EXISTING WIRING AS REQUIRED. CONTRACTOR RESPONSIBLE TO ARRANGE SHUT-DOWN OF EXISTING POWER WITH LOCAL HYDRO UTILITY AND OWNER PRIOR TO COMMENCEMENT OF ANY WORK. CONTRACTOR TO INCLUDE FOR PROVISION OF TEMPORARY GENERATOR, ALL FUEL AND TEMPORARY DISTRIBUTION EQUIPMENT TO POWER EXISTING FIRE ALARM PANEL, SECURITY PANEL AND CORRIDOR LIGHTING CIRCUITS (ASSUME \$ IN TOTAL) THROUGHOUT THE DURATION OF THE SWITCHBOARD REPLACEMENT (A 4 DAY WINDOW IS ASSUMED FOR PRICING PURPOSES).

EXISTING TIME SWITCH IN RELOCATED POSITION.  
 EXISTING RECEPTACLE IN RELOCATED POSITION.  
 EXISTING PUBLIC ADDRESS SYSTEM EQUIPMENT IN RELOCATED POSITION.  
 EXISTING RECEPTACLE, DATA OUTLET AND SAFE ENTRY MONITOR IN RELOCATED POSITION. DEVICES INSTALLED 300mm BELOW FINISHED CEILING.

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**GENERAL NEW WORK NOTES**

1. BE RESPONSIBLE TO COORDINATE ALL FINAL EQUIPMENT LOCATIONS AND ELECTRICAL CONNECTIONS TO MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR ON SITE.

**NEW WORK SHEET KEYNOTES**

- 1 CONNECTION TO ROOF MOUNTED UNIT 'HVAC-1'. EXTEND 3#2/0 + 1#6 GROUND IN 78mm (3") CONDUIT FROM UNIT TO BREAKER IN NEW MAIN SWITCHBOARD AND CONNECT COMPLETE. ANY NEW ROOF PENETRATIONS SHALL BE PROPERLY SEALED AND MADE WEATHER AND WATER TIGHT. MAINTAIN ANY EXISTING FIRE RATING. UNIT MOUNTED DISCONNECT SWITCH SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- 2 CONNECTION TO ROOF MOUNTED SERVICE RECEPTACLE. FOR BRANCH CIRCUIT NOTED. EXTEND 2#10 + GROUND IN 21mm CONDUIT FROM RECEPTACLE FROM A SPARE 20A-1P BREAKER IN PANEL LP-H AND CONNECT COMPLETE. REFER TO PANEL SCHEDULES FOR BREAKER REQUIREMENTS. ANY NEW ROOF PENETRATIONS SHALL BE PROPERLY SEALED AND MADE WEATHER AND WATER TIGHT. MAINTAIN ANY EXISTING FIRE RATING. RECEPTACLE TO BE PROVIDED BY ELECTRICAL CONTRACTOR AND INSTALLED ON NEW ROOF MOUNTED AIR HANDLING UNIT. COORDINATE INSTALLATION WITH MECHANICAL CONTRACTOR ON SITE.
- 3 CONNECTION TO ROOF MOUNTED UNIT 'HV-1'. EXTEND 3#4 + GROUND IN 41mm (1.5") CONDUIT FROM UNIT TO BREAKER IN NEW MAIN SWITCHBOARD AND CONNECT COMPLETE. ANY NEW ROOF PENETRATIONS SHALL BE PROPERLY SEALED AND MADE WEATHER AND WATER TIGHT. MAINTAIN ANY EXISTING FIRE RATING. UNIT MOUNTED DISCONNECT SWITCH SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- 4 CONNECTION TO ROOF MOUNTED UNIT 'HVAC-2'. EXTEND 3#2/0 + 1#6 GROUND IN 78mm (3") CONDUIT FROM UNIT TO BREAKER IN NEW MAIN SWITCHBOARD AND CONNECT COMPLETE. ANY NEW ROOF PENETRATIONS SHALL BE PROPERLY SEALED AND MADE WEATHER AND WATER TIGHT. MAINTAIN ANY EXISTING FIRE RATING. UNIT MOUNTED DISCONNECT SWITCH SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- 5 CONNECTION TO ROOF MOUNTED UNIT 'ERV-1'. EXTEND 3#6 + GROUND IN 27mm (1") CONDUIT FROM UNIT TO BREAKER IN NEW MAIN SWITCHBOARD AND CONNECT COMPLETE. ANY NEW ROOF PENETRATIONS SHALL BE PROPERLY SEALED AND MADE WEATHER AND WATER TIGHT. MAINTAIN ANY EXISTING FIRE RATING. UNIT MOUNTED DISCONNECT SWITCH SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- 6 CONNECTION TO ROOF MOUNTED UNIT 'ERV-2'. EXTEND 3#6 + GROUND IN 27mm (1") CONDUIT FROM UNIT TO BREAKER IN NEW MAIN SWITCHBOARD AND CONNECT COMPLETE. ANY NEW ROOF PENETRATIONS SHALL BE PROPERLY SEALED AND MADE WEATHER AND WATER TIGHT. MAINTAIN ANY EXISTING FIRE RATING. UNIT MOUNTED DISCONNECT SWITCH SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR.



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**PROJECT:**

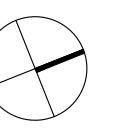
Park Manor Public School - Phase 2 Renovations

**DRAWING TITLE:**

PARTIAL ROOF NEW WORK PLAN - ELECTRICAL

PROJECT NO: ED-20-301  
 SCALE: 1:100  
 DRAWN BY: CW  
 REVIEWED BY: TWS

**PROJECT NORTH:**



**DRAWING NO:**

E203



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**GENERAL NOTES**

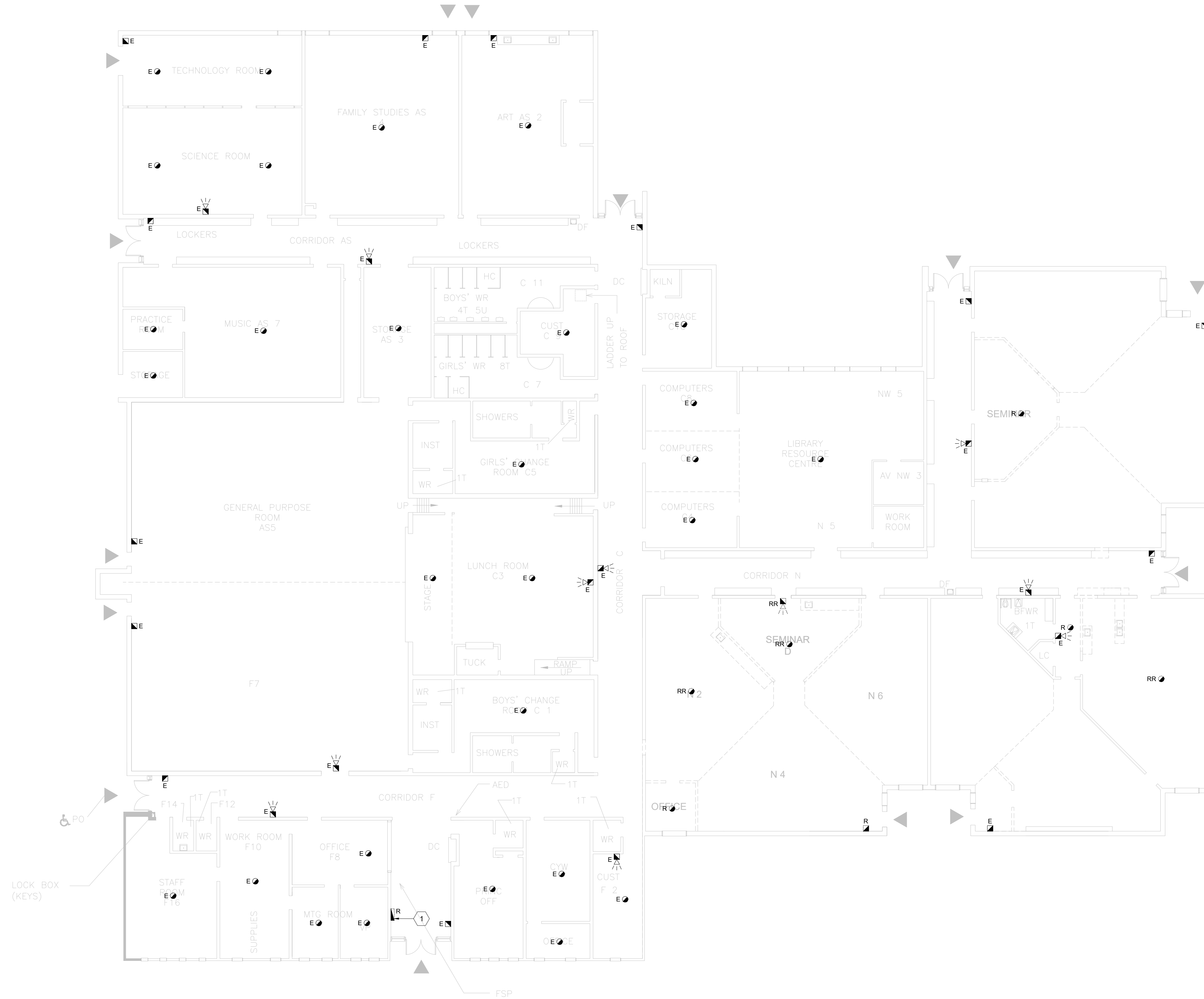
1. ALL EXISTING ALARM INITIATING AND SIGNALLING DEVICES ARE TO REMAIN AS EXISTING. REPLACEMENT OF THE EXISTING DEVICES IS NOT TO BE INCLUDED IN THE SCOPE OF WORK FOR THIS PROJECT.
2. EXISTING FIRE ALARM PASSIVE GRAPHIC TO REMAIN AS CURRENTLY INSTALLED ADJACENT TO EXISTING FIRE ALARM CONTROL PANEL. REPLACEMENT OF THIS EQUIPMENT IS NOT TO BE INCLUDED IN THE SCOPE OF WORK FOR THIS PROJECT.

**SHEET KEY NOTES**

1. EXISTING FIRE ALARM CONTROL PANEL TO BE REMOVED AND REPLACED WITH NEW. REPLACEMENT OF PANEL IS DUE TO LACK OF AVAILABILITY OF SPARE PARTS FOR EXPANSION. ALL EXISTING ZONES TO BE RECONNECTED TO NEW PANEL COMPLETE. TEST AND VERIFY NEW PANEL UPON COMPLETION OF WORK.

**PERMIT NOTES**

1. PROJECT IS BEING PERFORMED AS A "VOLUNTARY REPLACEMENT" UNDER THE RETROFIT REQUIREMENTS DESCRIBED IN PART 9 - RETROFIT, SECTION 9.6 OF THE 2017 ONTARIO FIRE CODE.
2. REPLACEMENT OF FIRE ALARM PANEL AS INDICATED IS BEING PERFORMED BASED ON THE REQUIREMENTS OF PART 11 - RENOVATION. REFER TO 2012 OBC, DIV A, 1.1.2.6.
3. 2012 OBC DIV B 11.3.1.1(1) WHERE AN EXISTING BUILDING SYSTEM IS MATERIALLY ALTERED OR REPAIRED, THE PERFORMANCE LEVEL OF THE BUILDING AFTER THE MATERIAL ALTERATION OR REPAIR SHALL BE AT LEAST EQUAL TO THE PERFORMANCE LEVEL OF THE BUILDING PRIOR TO THE MATERIAL ALTERATION OR REPAIR.



**ISSUE DATE:**

NO.	DATE	DESCRIPTION
5	2022-02-09	RE-ISSUED FOR PERMIT
4	2022-02-11	ISSUED FOR TENDER
3	2022-01-31	ISSUED FOR 90% CD REVIEW
2	2022-01-19	ISSUED FOR PERMIT
1	2021-12-20	ISSUED FOR REVIEW

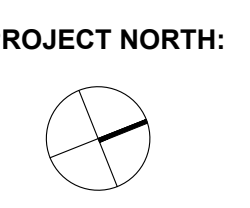
**PROJECT:**

**Park Manor Public School - Phase 2 Renovations**

**DRAWING TITLE:**

**FIRE ALARM DEMOLITION PLAN**

**PROJECT NO:** ED-20-301  
**SCALE:** 1:150  
**DRAWN BY:** CW  
**REVIEWED BY:** TWS



**DRAWING NO:**

**E301**



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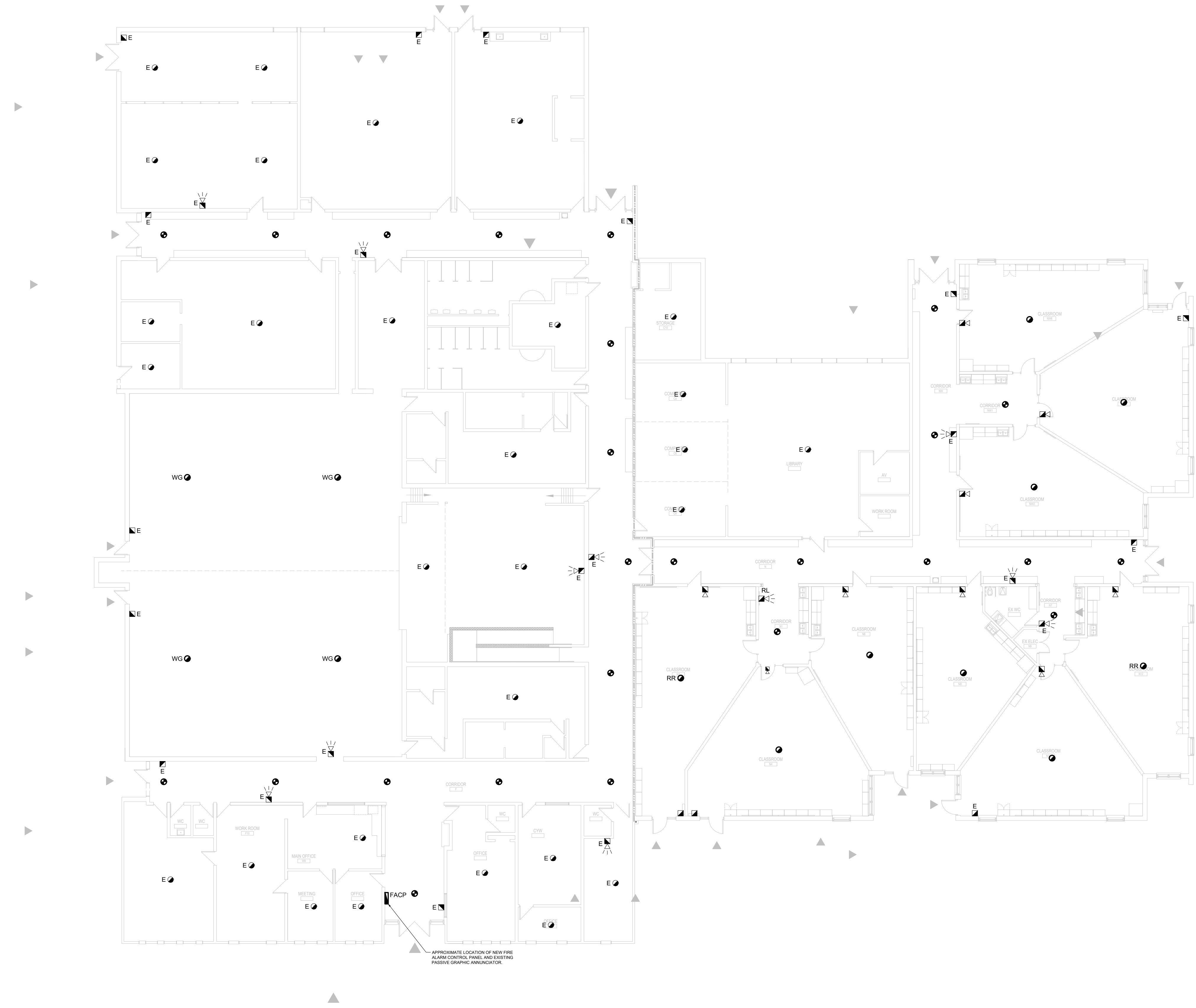
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**GENERAL NOTES**

1. PROVIDE NEW FIRE ALARM INITIATING DEVICES AS INDICATED AND CONNECT INTO NEAREST EXISTING ALARM INITIATING ZONE. MODIFY EXISTING ZONE WIRING AS REQUIRED TO ACCOMMODATE NEW DEVICES
2. PROVIDE NEW FIRE ALARM SIGNALLING DEVICES AS INDICATED AND CONNECT INTO NEAREST EXISTING ALARM SIGNALLING ZONE. INCLUDE FOR PROVISION OF NEW BOOSTERS, ETC. AS REQUIRED TO CONNECT NEW DEVICES.

**PERMIT NOTES**

1. PROJECT IS BEING PERFORMED AS A "VOLUNTARY REPLACEMENT" UNDER THE RETROFIT REQUIREMENTS DESCRIBED IN PART 9 - RETROFIT, SECTION 9.6 OF THE 2007 ONTARIO FIRE CODE.
2. REPLACEMENT OF FIRE ALARM PANEL, AS INDICATED IS BEING PERFORMED BASED ON THE REQUIREMENTS OF PART 11 - RENOVATION. REFER TO 2012 OBC, DIV A 1.1.2.5.
3. 2012 OBC DIV B 11.3.1.1(1) WHERE AN EXISTING BUILDING SYSTEM IS MATERIALLY ALTERED OR REPAIRED, THE PERFORMANCE LEVEL OF THE BUILDING AFTER THE MATERIAL ALTERATION OR REPAIR SHALL BE AT LEAST EQUAL TO THE PERFORMANCE LEVEL OF THE BUILDING PRIOR TO THE MATERIAL ALTERATION OR REPAIR.



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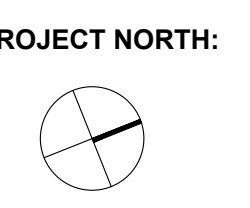
**PROJECT:**

**Park Manor Public School - Phase 2 Renovations**

**DRAWING TITLE:**

**FIRE ALARM NEW WORK PLAN**

**PROJECT NO:** ED-20-301  
**SCALE:** 1:150  
**DRAWN BY:** CW  
**REVIEWED BY:** TWS



**DRAWING NO:**

**E302**

### SCHEDULE 26 06 50.16 - LIGHTING FIXTURE SCHEDULE

SYMBOL	TYPE	DESCRIPTION	BASIS OF DESIGN MANUFACTURER AND CAT NO. SEE NOTE 1	VOLTAGE/ INPUT WATTS	LUMEN PACKAGE (3500 K CCT UNLESS NOTED OTHERWISE) MINIMUM 80 CRI	MOUNTING	REFERENCE	REMARKS
	L1	RECESSED 2' x 4' LED TROFFER STYLE LUMINAIRE COMPLETE WITH WHITE FINISH, AND ACRYLIC LENS.	COOPER LIGHTING SOLUTIONS 24EN SERIES CAT.#24EN-LD2-34-UNV-L840-CD1-U	120V 28W	3400 LUMEN 4000K	RECESSED T-BAR CEILING		

**LIGHTING FIXTURE SCHEDULE NOTES:**  
1. UNLESS NOTED OTHERWISE, ACCEPTED ALTERNATE MANUFACTURERS AND SUPPLIERS: ACUITY BRANDS LIGHTING, CREE CANADA, HUBBELL LIGHTING, PEERLESS ELECTRIC, SIGNIFY (FORMERLY PHILIPS LIGHTING), VISCOR/VISIONEERING.  
2. WHERE AN INCOMPLETE MODEL/CAT NO. IS LISTED, MANUFACTURERS/SUPPLIERS MUST CONFIRM THE PROPOSED FIXTURE WITH THE CONSULTANT A MINIMUM OF ONE WEEK PRIOR TO TENDER CLOSE.  
3. SUBMIT SHOP DRAWINGS FOR CONSULTANT'S REVIEW PRIOR TO PLACING ANY ORDER.

### SCHEDULE 26 06 50.23 - LIGHTING CONTROL DEVICE SCHEDULE

SYMBOL	TYPE	DESCRIPTION	BASIS OF DESIGN MANUFACTURERS AND PRODUCT SERIES	CONTROL WIRING	VOLTAGE OUTPUT	MOUNTING	SPECIFICATION SECTION	SPACES SERVED	REMARKS
Z1, Z2	UI-DIM-NV-X B	DIMMING WALL STATION, MULTI-BUTTON WALL INTERFACE CONTROL, C/W ENGRAVED BUTTONS. EACH ZONE CONTROLLED (SEE PLANS), DIM UP, DIM DOWN, ALL OFF, ALL ON 'X' DENOTES NUMBER OF CONTROLLED ZONES	ACUITY BRANDS CONTROLS/nLIGHT NP0DM SERIES PHILIPS REVOLUTION SERIES DR2PA	DIGITAL	-	WALL	26 09 43		
	DT-W-2V	WALL MOUNT OCCUPANCY SENSOR, 24 V, DUAL TECHNOLOGY SENSOR, MIN 1200 SQ FT COVERAGE	PHILIPS OCCUSWITCH CLASSIC LRM2265 SERIES WATTSTOPPER DT-200 SERIES		24 V	WALL, +/- 12 FEET AFF	26 09 23		
	DT-C-2V	CEILING MOUNTED OCCUPANCY SENSOR, 24 V, DUAL TECHNOLOGY SENSOR.	LEGRAND/WATTSTOPPER DT-300 SERIES LUTRON LOS-GDT SERIES		24 V		26 09 23		

**LIGHTING CONTROLS SCHEDULE NOTES:**  
1. LIGHTING CONTROLS OF ONE MANUFACTURER THROUGH PROJECT TO ENSURE PRODUCT COMPATIBILITY.  
2. ALTERNATE MANUFACTURERS: ACUITY BRANDS LIGHTING (SENSORSWITCH, nLIGHT), COOPER LIGHTING SOLUTIONS, DOUGLAS LIGHTING CONTROLS, LUTRON, SIGNIFY (FORMERLY PHILIPS LIGHTING), WATTSTOPPER-LEGRAND.  
3. DUAL TECHNOLOGY SENSORS: PASSIVE INFRARED/ULTRASONIC, OR PASSIVE INFRARED/MICROPHONIC, DEPENDING ON MANUFACTURER. MICROPHONIC SENSORS ACCEPTABLE IN LIEU OF ULTRASONIC.  
4. POSITION CEILING MOUNTED OCCUPANCY SENSORS A MINIMUM 1200 mm (4'-0") FROM NEAREST AIR DIFFUSER, HVAC OUTLETS, HEATING BLOWERS, ETC.  
5. CONFIRM INSTALLATION REQUIREMENTS, WIRING DIAGRAMS, ETC. WITH MANUFACTURER'S DETAILS.  
6. SUBMIT SHOP DRAWINGS FOR CONSULTANT'S REVIEW PRIOR TO PLACING ANY ORDER.  
7. CONFIRM FINISH COLOUR WITH CONSULTANT DURING SUBMITTAL REVIEW.

### SCHEDULE 26 06 50.19 - EMERGENCY LIGHTING AND EXIT SIGN SCHEDULE

SYMBOL	TYPE	DESCRIPTION	MANUFACTURER AND PRODUCT SERIES	VOLTAGE	LAMPS	MOUNTING	SPEC SECTION	REMARKS
	X1	EXTRUDED ALUMINUM PICTOGRAM EXIT SIGN, UNIVERSAL MOUNTING, FACTORY WHITE FINISH.	-LUMACELL LA SERIES -EMERGLITE EA SERIES -STANPRO RMXL SERIES -BEGHELLI QUADRA RM SERIES	SEE NOTE 2	3W LED	CEILING OR WALL SURFACE	26 52 13.16	REFER TO FLOOR PLANS FOR MOUNTING ARRANGEMENT
	X2	SAME AS X1, DOUBLE FACE	-LUMACELL LA SERIES -EMERGLITE EA SERIES -STANPRO RMXL SERIES -BEGHELLI QUADRA RM SERIES	SEE NOTE 2	3W LED	CEILING OR WALL SURFACE	26 52 13.16	REFER TO FLOOR PLANS FOR MOUNTING ARRANGEMENT

**EMERGENCY LIGHTING FIXTURE & EXIT SIGN SCHEDULE NOTES:**  
1. WHERE AN INCOMPLETE MODEL/CAT NO. IS LISTED, MANUFACTURERS/SUPPLIERS MUST CONFIRM THE PROPOSED FIXTURE WITH THE CONSULTANT A MINIMUM OF ONE WEEK PRIOR TO TENDER CLOSE.  
2. EXIT SIGNS SHALL BE CAPABLE OF UNIVERSAL 120/347V AC AND 6 TO 48V DC INPUT. BATTERY UNITS SHALL BE CAPABLE OF UNIVERSAL 120/347V AC INPUT.  
3. FOR EXIT SIGNS, REFER TO ARROWS AND NUMBER OF SHADED FACES AS DIRECTED ON LIGHTING LAYOUT. WHERE ARROWS INDICATE TWO DIRECTIONS, PROVIDE TWO PICTOGRAM STYLE EXIT SIGNS.  
4. SUBMIT SHOP DRAWINGS FOR CONSULTANT'S REVIEW PRIOR TO PLACING ANY ORDER.  
5. ACCEPTABLE MANUFACTURERS AS NOTED IN SECTION 26 52 13.13 AND SECTION 26 52 13.16 [OR]  
6. ACCEPTABLE MANUFACTURERS: AIMLITE, BEGHELLI, EMERGLITE, LUMACELL, STANPRO.  
7. CIBCS - "CENTRE BEAM CANDLE POWER".  
8. REMOTE HEADS CERTIFIED TO CSA C22.2 No. 141.  
9. CONFIRM RECOMMENDED SPACING WITH EMERGENCY LIGHTING MANUFACTURER PRIOR TO START OF ROUGH-IN.

### 26 06 20.16 - ELECTRICAL PANELBOARD SCHEDULE

PANEL ID	LP-H (NEW PANEL)	VOLTS: 120/208V	LOCATION: EXISTING STORAGE ROOM
MAIN BUS:	100A	PHASE: 3	FED FROM: EXISTING SWITCHBOARD
MAIN BREAKER:	100/3P	WIRE: 4	FEEDER ENTRY AT: TOP
TYPE:		MOUNTING: SURFACE	FEEDER: REFER TO DRAWING NOTES
INTERRUPTING CAPACITY:		ENCLOSURE RATING:	REMARKS:

CIR NO.	DESCRIPTION	WATTAGE			BRK R	Ø	BRK R	WATTAGE			DESCRIPTION	CIR NO.
		ØA	ØB	ØC				ØA	ØB	ØC		
1	03, 04 - PDOs	400	-	-	15	A	15	250	-	-	03 - BIDET SEAT RECEPT	2
3	03 - HAND DRYER	-	1200	-	15**	B	15	-	1250	-	N2, N4 - REC	4
5	N1, N2, N6 - REC	-	-	750	15	C	15	-	-	1000	N2 - PROJ & AUDIO	6
7	N1, N7 - REC	1500	-	-	20	A	15	1000	-	-	N2 - REC	8
9	N4, N6 - REC	-	1000	-	15	B	15	-	1000	-	N4, N6 - REC	10
11	N4 - PROJ & AUDIO	-	-	1000	15	C	15	-	-	1000	N4, N6 - REC	12
13	N6, N8 - REC	1250	-	-	15	A	15	1000	-	-	N6 - PROJ & AUDIO	14
15	N7, N8, N12 - REC	-	750	-	15	B	15	-	1000	-	N8 - PROJ & AUDIO	16
17	N8, N10 - REC	-	-	1000	15	C	15	-	-	1000	N8, N10, N12	18
19	N8, N10 - REC	1000	-	-	15	A	15	1000	-	-	N10 - PROJ & AUDIO	20
21	N12 - REC	-	1000	-	15	B	15	-	1000	-	N10, N12 - REC	22
23	N12 - PROJ & AUDIO	-	-	1000	15	C	15	-	-	1250	NW2, NW4 - REC	24
25	NW2 - PROJ & AUDIO	1000	-	-	15	A	15	1000	-	-	NW1, NW2, NW6 - REC	26
27	NW2, NW4 - REC	-	1000	-	15	B	20	-	1500	-	NW1 - REC	28
29	NW2, NW4 - REC	-	-	1000	15	C	15	-	-	1000	NW4, NW6 - REC	30
31	NW6 - REC	1000	-	-	15	A	15	1000	-	-	NW4 - PROJ & AUDIO	32
33	NW6 - PROJ & AUDIO	-	1000	-	15	B	15	-	750	-	NW6 - REC	34
35	SPARE BREAKER	-	-	0	15	C	15	-	-	0	SPARE BREAKER	36
37	SPARE BREAKER	0	-	-	20	A	20	0	-	-	SPARE BREAKER	38
39	SPARE BREAKER	-	0	-	20	B	20	-	0	-	SPARE BREAKER	40
41	SPARE BREAKER	-	-	0	20	C	20	-	-	0	SPARE BREAKER	42

TOTAL ØA: \_\_\_ W, TOTAL ØB: \_\_\_ W, TOTAL ØC: \_\_\_ W

**NOTES:**  
\* - PROVIDE LOCKABLE BREAKER  
\*\* - PROVIDE GFI TYPE BREAKER  
\*\*\* - COORDINATE EXACT BREAKER SIZE WITH EQUIPMENT SHOP DRAWINGS  
R - RECEPTACLE  
L - LIGHTING  
CIRCUIT NUMBERS ARE GIVEN FOR GROUPING ONLY. SITE VERIFY AVAILABLE CIRCUIT BREAKER SPACES IN PANELS DURING TENDER WALKTHROUGH.



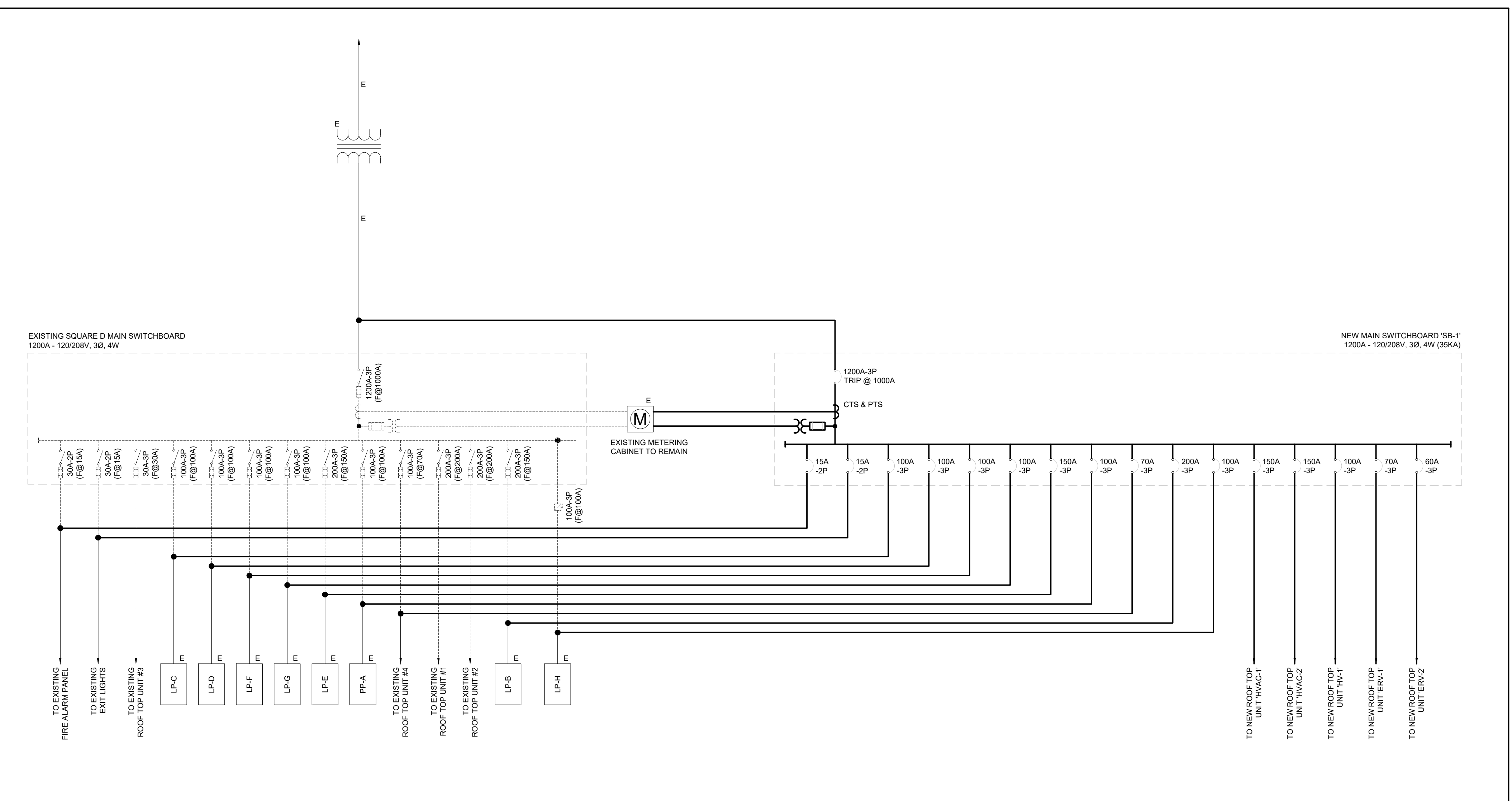
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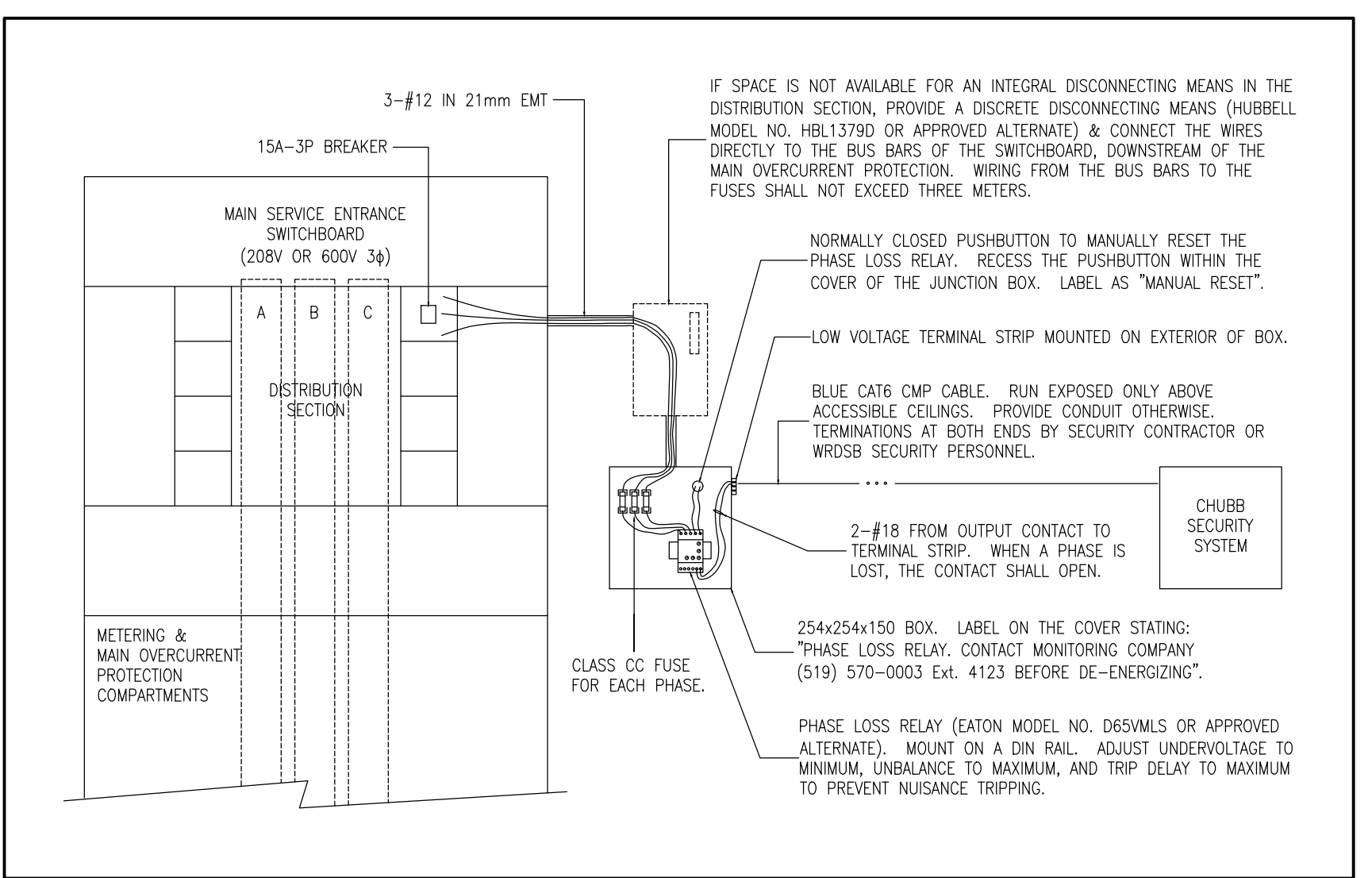
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**2 SINGLE LINE DIAGRAM**  
SCALE: NOT TO SCALE



**1 PHASE LOSS MONITORING DETAIL**  
SCALE: NOT TO SCALE

**ISSUE DATE:**

NO.	DATE	DESCRIPTION
4	2022-02-11	ISSUED FOR TENDER
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**PROJECT:**  
Park Manor Public School - Phase 2 Renovations

**DRAWING TITLE:**  
SCHEDULES & DETAILS - ELECTRICAL

**PROJECT NO:** ED-20-301  
**SCALE:** NOT TO SCALE  
**DRAWN BY:** CW  
**REVIEWED BY:** TWS

**DRAWING NO:**  
**E401**

