
Project Name:	Park Manor Senior Public School – Phase 2	Date Issued:	February 25, 2022
Quasar Project #:	ED-20-301		
Client Tender #:	7266-RW-22		
Addendum #:	E-1		
Revision #:	0		

This Addendum forms part of the Contract Specifications and Drawings, and modifies the Bidding Documents, with Amendments and Additions noted below. This Addendum shall be added to the front of the specifications as issued. Bidders shall acknowledge receipt of this Addendum in the space provided in the Bid Form and include in bid amount.

This addendum includes modifications to the drawings as summarized below. Unless otherwise noted, all drawings listed below are attached herewith.

Changes to Specifications:

1. Section 26 24 13 – Switchboards (Issued Previously)

Refer to specifications issued previously and include for all work shown, which includes the following:

- a. Revise item #2.02.3.1 to read: Voltage: 208V
- b. Revise item #2.02.3.2 to read: Configuration: Three phase, four wire, grounded
- c. Revise item #2.02.16 to read: Minimum Interrupting Capacity: 35KA
- d. Revise item #2.02.17 to read: Bus Brace Rating: 35KA

Changes to Drawings:

1. DRAWING E001 – ELECTRICAL LEGEND AND SHEET LIST (ISSUED HEREWITH)

Refer to drawings issued herewith and include for all work shown, which includes the following:

- a. Refer to attached, revised drawing E001 and note addition of a site plan to this drawing. Contractor shall include for pulling back of existing underground secondary service cabling and replace with new feeder. Size of existing and new feeder is noted on the drawings. Include itemized price in the bid form for this work. Refer to Architectural Addendum 01 for the Itemized Price bid table. If existing cables are found to be in good condition and of sufficient length to accommodate the replacement of the existing switchboard, a credit shall be provided for this work. Contractor to verify on site prior to commencement of any replacement and arrange power shut-down with Owner and Hydro Utility (Waterloo-North Hydro) for investigation purposes.

2. DRAWING E102 – PARTIAL GROUND FLOOR DEMOLITION PLAN – POWER & SYSTEMS (NOT ISSUED)

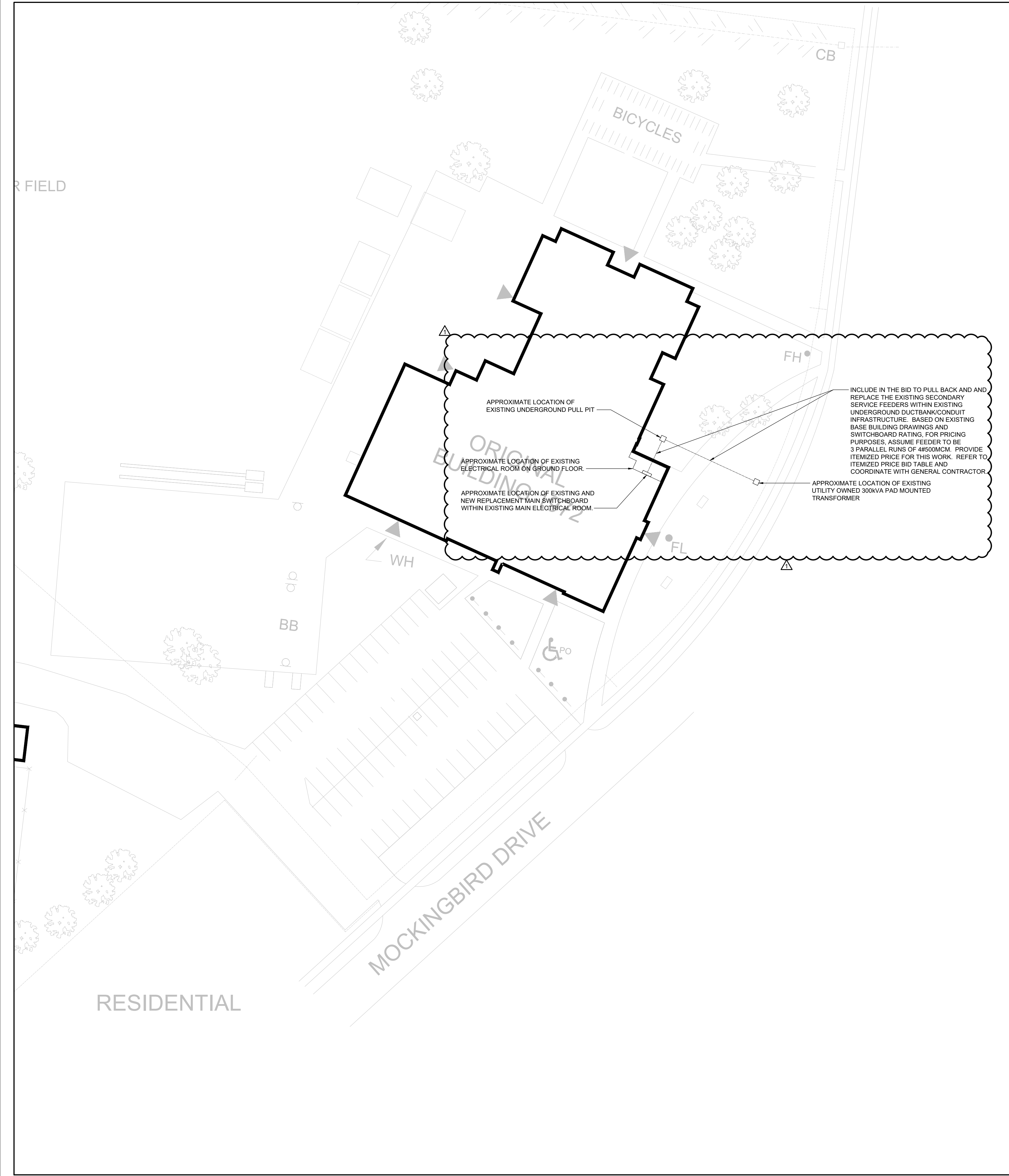
Refer to drawings issued previously and include for all work shown, which includes the following:

- a. Delete references to keyed note #3 from this drawing. Connections to these existing heaters will remain as existing.

3. DRAWING E401 – SCHEDULES & DETAILS – ELECTRICAL (NOT ISSUED)

Refer to drawing issued previously and include for all work shown, which includes the following:

- a. Contractor to include for pulling back and replacement of existing underground secondary service cables between existing pad mounted transformer near the street and new main switchboard. Size of existing feeders is noted on re-issued drawing E001. Include itemized price in the bid form for this work. If existing cables are found to be in good condition and of sufficient length to accommodate the replacement of the existing switchboard, a credit shall be provided for this work.



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
F	FLOOR MOUNTED CONNECTION
CL	CENTRE LINE
AF	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
NC	NOT IN CONTRACT
SM	SIMILAR TO
TYP.	TYPICAL
ABBREVIATIONS - CODES AND STANDARDS	
OBC	ONTARIO BUILDING CODE
OESC	ONTARIO ELECTRICAL SAFETY CODE
ANNOTATIONS	
CL	CLOSET
WR	WASHROOM
FIRE PROTECTION	
SPK	FIRE EXTINGUISHER
FHC	SPRINKLER HEAD
	STANDPIPE FIRE HOSE CABINET
HVAC	
TS	THERMOSTAT OR TEMPERATURE SENSOR
BBH	ELECTRIC BASEBOARD HEATER (BBH)
FFH	FORCED FLOW HEATER
ERV	ENERGY RECOVERY VENTILATOR
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
1P	1-PHASE DIRECT CONNECTION OUTLET AS NOTED.
3P	3-PHASE DIRECT CONNECTION OUTLET AS NOTED.
W	ADJACENT TO 3-PHASE DIRECT CONNECTION, DENOTES WALL SYSTEM FURNITURE FEED FOR POWER AND COMMUNICATIONS.
SM	SINGLE PHASE MOTOR, HP (KW) AS NOTED.
TM	THREE PHASE MOTOR, HP (KW) AS NOTED.
C	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
UT	CEILING MOUNTED OCCUPANCY SENSOR. PIR DENOTES PASSIVE INFRARED, UT DENOTES ULTRASONIC (OR MICROPHONIC), DT DENOTES DUAL TECHNOLOGY.
HPI	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 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)
	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
THIS LEGEND IS GENERIC. ALL SYMBOLS LISTED MAY NOT BE APPLICABLE FOR THIS PROJECT. REFER TO FLOOR PLANS TO DETERMINE USED DEVICES AND EQUIPMENT.	

Sheet List Table	
Sheet Number	Sheet Title
E001	ELECTRICAL LEGEND & SHEET LIST
E101	PARTIAL GROUND FLOOR DEMOLITION PLAN - LIGHTING
E102	PARTIAL GROUND FLOOR DEMOLITION PLAN - POWER & SYSTEMS
E103	PARTIAL ROOF DEMOLITION PLAN - ELECTRICAL
E201	PARTIAL GROUND FLOOR NEW WORK PLAN - LIGHTING
E202	PARTIAL GROUND FLOOR NEW WORK PLAN - POWER & SYSTEMS
E203	PARTIAL ROOF NEW WORK PLAN - ELECTRICAL
E301	FIRE ALARM DEMOLITION PLAN
E302	FIRE ALARM NEW WORK PLAN
E401	SCHEDULES & DETAILS - ELECTRICAL



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 DO NOT SCALE DRAWINGS

THE SPECIFICATIONS ARE TO BE CONSIDERED AS AN INTEGRAL PART OF THESE DRAWINGS AND NEITHER THE DRAWINGS NOR THE SPECIFICATIONS SHALL BE USED ALONE. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. DO NOT SCALE.



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ISSUE DATE:

NO.	DATE	DESCRIPTION
4	2022-02-25	ISSUED WITH ADDENDUM #E-1
3	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

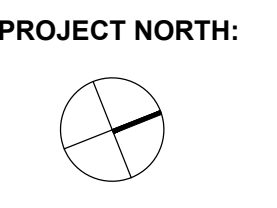
PROJECT:

Park Manor Public
 School - Phase 2
 Renovations

DRAWING TITLE:

ELECTRICAL LEGEND & SHEET
 LIST

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



DRAWING NO:

E001

1 PARTIAL SITE PLAN - ELECTRICAL
 SCALE: 1:500