











































































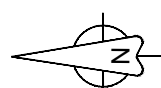


ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
LINETYPES	
————	NEW WORK
-----	WORK TO BE DEMOLISHED, OR REMOVED
-----	EXISTING MATERIAL/EQUIPMENT/SERVICES TO REMAIN
-----	FUTURE WORK (NOT IN SCOPE)
-----	EXTENTS OF FIRE ALARM ZONE, WET LOCATION, OR OTHER AREA AS NOTED ON PLANS
ABBREVIATIONS	
E	EXISTING TO REMAIN
ER	EXISTING TO BE DEMOLISHED/REMOVED
R	EXISTING TO BE REPLACED WITH NEW IN SAME LOCATION
RL	REPLACE EXISTING AND REINSTALL IN SAME LOCATION
RLR	REMOVE EXISTING AND RELOCATE
C	CEILING MOUNTED CONNECTION
W	WALL MOUNTED CONNECTION
F	FLOOR MOUNTED CONNECTION
L	CENTRE LINE
AFB	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
OVC	OVER COUNTER
UIC	UNDER CABINET
UF	UNDER RAISED FLOOR
CCT	CIRCUIT
CONNECT	CONNECT TO EXISTING
AFCI	ARC FAULT CIRCUIT INTERRUPTER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
IGI	GROUND FAULT INTERRUPTER
IG	ISOLATED GROUND
TL	TWIST LOCK
TR	TAMPER RESISTANT
WPC	WIRE GUARD
WP	WEATHER PROOF
EXP	EXPLOSION PROOF
HZ	HAZARDOUS LOCATION
R1	ROUGH-IN ONLY
NIC	NOT IN CONTRACT
SIM	SIMILAR TO
TYP	TYPICAL
ABBREVIATIONS - CODES AND STANDARDS	
QBC	ONTARIO BUILDING CODE
OEBC	ONTARIO ELECTRICAL SAFETY CODE
OFRC	ONTARIO FIRE CODE
ABBREVIATIONS - CEILING TYPES	
ACT	ACOUSTIC CEILING TILE (T-BAR)
EXP	EXPOSED CEILING
GB	GYPSUM BOARD CEILING
OWSJ	OPEN WE STEEL JOISTS
PCC	PAINTED OR POPCORN CEILING ON EXPOSED CONCRETE
WD	WOOD CEILING
ANNOTATIONS	
CL	CLOSET
WR	WASHROOM
PLUMBING	
PTP	ELECTRONIC TRAP PRIMER
PSG	PLUMBING SENSOR CONTROL (TOUCHLESS FAUCETS)
HVAC	
⊖	THERMOSTAT OR TEMPERATURE SENSOR
⊖	TIMER CONTROL
BBH	ELECTRIC BASEBOARD HEATER (BBH)
FFH	FORCED FLOW HEATER
ERV	ENERGY RECOVERY VENTILATOR
HUR	HEAT RECOVERY UNIT
MAU	MAKE-UP AIR UNIT
CONDUIT AND BOXES	
—	CONDUIT WITH END BUSHING
—	CONDUIT UP
—	CONDUIT DOWN
—	CONDUIT CONTINUES
JB	JUNCTION BOX
PB	PULL BOX
HH	HAND HOLE
CONNECTIONS TO EQUIPMENT	
DW	DEWASHER
FR	FRIDGE
MW	MICROWAVE
HD	HAND DRYER, ALLOW UP TO 208V; 1PH-20A
1	1-PHASE DIRECT CONNECTION OUTLET AS NOTED.
3	3-PHASE DIRECT CONNECTION OUTLET AS NOTED.
1	CONNECTION TO SINGLE PHASE MOTOR, HP (KW) AS NOTED. PROVIDE LOCAL DISCONNECT.
3	THREE PHASE MOTOR, HP (KW) AS NOTED. PROVIDE LOCAL DISCONNECT.
LIGHTING CONTROLS	
REFER TO SPECIFICATIONS AND RESPECTIVE SCHEDULES FOR EXACT REQUIREMENTS	
HA	SWITCH OR OTHER USER INTERFACE DEVICE AS DESCRIBED ON LIGHTING CONTROLS SCHEDULE.
HA-3W	3-WAY SWITCH
DIM	ADJACENT TO SWITCH, DENOTES DIMMING SWITCH.
K	ADJACENT TO SWITCH, DENOTES KEY SWITCH.
T	ADJACENT TO SWITCH, DENOTES COUNTDOWN TIMER SWITCH
AS	ADJACENT TO SWITCH, DENOTES ASTRONOMICAL TIMER SWITCH
DT	ADJACENT TO SWITCH, DENOTES DOOR SWITCH
PIR	PASSIVE INFRARED SENSOR
DR	DUAL TECHNOLOGY SENSOR
US	ULTRASONIC SENSOR
OS	SENSOR (TYPE UNKNOWN)
M	ADJACENT TO SWITCH, DENOTES MASTER CONTROL OR LUMINAIRES IN A ROOM OR SPACE, OR AS NOTED.
HA-3	WALL MOUNTED SWITCH/OCCUPANCY SENSOR, PIR DENOTES PASSIVE INFRARED, DT DENOTES DUAL PASSIVE INFRARED,ULTRASONIC, LINE VOLTAGE TO SWITCH CONTROLLED CIRCUIT, OR AS NOTED.
PP	RELAY PANEL
PP	POWER PACK
⊖	CEILING MOUNTED OCCUPANCY SENSOR, PIR DENOTES PASSIVE INFRARED, DT DENOTES ULTRASONIC (OR MICROPHONIC), DT DENOTES DUAL TECHNOLOGY, OS DENOTES UNKNOWN TECHNOLOGY.
⊖	WALL MOUNTED OCCUPANCY SENSOR.
DISTRIBUTION EQUIPMENT	
⊖	TRANSFORMER, PLAN VIEW
■	SURFACE MOUNTED LIGHTING AND RECEPTACLE PANELBOARD
■	RECESSED RECEPTACLE AND LIGHTING PANELBOARD
■	DISTRIBUTION PANELBOARD
⊖	DISCONNECT SWITCH
⊖	FUSED DISCONNECT SWITCH
⊖	CONTACTOR
⊖	LOOSE STARTER, COORDINATE STARTING CHARACTERISTIC WITH EQUIPMENT REQUIREMENTS.
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
COMBINATION STARTER	
VFD	ADJACENT TO STARTER, DENOTES VARIABLE FREQUENCY DRIVE
	POWER RECEPTABLES AND BOXES
	120V U-GROUND DUPLEX RECEPTACLE
	120V U-GROUND DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER TOP OR AS INSTRUCTED ON SITE
	120V U-GROUND 20A DUPLEX RECEPTACLE
	120V U-GROUND DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER TOP OR AS INSTRUCTED ON SITE
	120V U-GROUND DUPLEX RECEPTACLE - AUTOMATICALLY CONTROLLED (ASHRAE 90-1.2013, 8.4.2)
	120V U-GROUND 20A DUPLEX RECEPTACLE - AUTOMATICALLY CONTROLLED (ASHRAE 90-1.2013, 8.4.2)
	120V U-GROUND DUPLEX RECEPTACLE - HALF OF RECEPTACLE AUTOMATICALLY CONTROLLED (ASHRAE 90-1.2013, 8.4.2)
	SPLIT RECEPTACLE IF MANUALLY CONTROLLED, SHOWN CONNECTED TO SWITCH
	SPLIT RECEPTACLE MOUNTED ABOVE COUNTER TOP OR AS INSTRUCTED ON SITE
	120V U-GROUND QUAD RECEPTACLE
	INDENTERS RECEPTACLE COMPLETE WITH ONE TYPE A AND ONE TYPE C USB CHARGING PORTS
	14-30R RECEPTACLE FOR LAUNDRY DRYER, OR OTHER RECEPTACLE AS NOTED
	14-50R RECEPTACLE FOR ELECTRIC RANGE, OR OTHER RECEPTACLE AS NOTED PROVIDE 40A/2P BREAKER TO SUIT, MOUNT AT 130 MM AFF
	SPECIAL RECEPTACLE VERIFY OUTLET REQUIREMENTS PRIOR TO ROUGH-IN
	FLOOR RECEPTACLE OR RECEPTACLE IN FLOOR BOX (POWER ONLY)
	SERVICE POLE PROVIDE POWER TO JUNCTION BOX IN CEILING SPACE ABOVE DEVICES ON POLE AS NOTED ON SITE
FBI	ADJACENT TO FLOOR RECEPTACLE, DENOTES FLOOR BOX TYPE
*	ADJACENT TO RECEPTACLE, DENOTES DEVICE CONNECTED TO EMERGENCY POWER
LIGHTING FIXTURES	
SYMBOLS IN ACCORDANCE WITH IESNA AND IES HB-10-11 WHERE NOT DETAILED OTHERWISE HERE.	
REFER TO LIGHTING FIXTURE SCHEDULE FOR FURTHER DETAILS AND EXACT FIXTURE REQUISITES	
	LINEAR LUMINAIRE, SURFACE MOUNTED TO CEILING
	LINEAR LUMINAIRE, RECESSED IN CEILING
X	LINEAR LUMINAIRE, SUSPENDED; PENDANT, STAIN, STEM, OR AIRCRAFT CABLE W/IN AS NOTED FOR SPLIT APPLICATION, OR AS NOTED IN SCHEDULE. "X," WHEN USED DENOTES POWER FEED LOCATION
	LINEAR LUMINAIRE, WALL MOUNTED
	EMERGENCY LIGHTING
	AS ABOVE, CONNECTED TO EMERGENCY OR NIGHT LIGHTING CIRCUIT AS INDICATED
	ROUND OR SQUARE DOWNLIGHT, RECESSED
	RECESSED DOWNLIGHTS, CONNECTED TO EMERGENCY OR NIGHT LIGHTING CIRCUIT
	ROUND SUSPENDED LUMINAIRE
	WALL SCONCE OR OTHER WALL MOUNTED LUMINAIRES
EM	CONNECTED TO EMERGENCY NIGHT LIGHT CIRCUIT (24 HOUR)
CE	CONNECTED TO EMERGENCY CIRCUIT, PROVIDE CLG 6X LISTED SHUNT TRIP RELAY OR EQUIV. EQUAL TO PERMIT CONTROL OF LUMINAIRE WITH ZONING BASED ON LOCAL LIGHTING CONTROLS
NL	LUMINAIRE CONNECTED TO NON-EMERGENCY NIGHT LIGHT CIRCUIT (24 HOUR)
A, B, 21, 22, ETC.	DENOTES ZONING/CIRCUIT ASSIGNMENTS FOR LUMINAIRES AND CONTROLS IN THE SAME SPACE.
REFER TO EMERGENCY LIGHTING SCHEDULE FOR EXACT FIXTURE REQUISITES	
	CEILING OR WALL MOUNTED ILLUMINATED EXIT SIGN, SHADED AREA INDICATES ILLUMINATED EXIT SIGN, DIRECTIONAL ARROWS AS INDICATED ON PLANS
	CEILING OR WALL MOUNTED ILLUMINATED EXIT SIGN, SHADED AREA INDICATES ILLUMINATED EXIT SIGN, DIRECTIONAL ARROWS AS INDICATED ON PLANS
SL	DENOTES 'SELF-LUMINOUS' EXIT SIGN
PL	PHOTOLUMINOUS EXIT SIGN
	EMERGENCY LIGHTING BATTERY UNIT, WITH AND WITHOUT HEADS
	ONE, TWO, AND THREE HEAD WALL MOUNTED EMERGENCY LIGHTING REMOTE UNITS
	ONE, TWO, AND THREE HEAD CEILING MOUNTED EMERGENCY LIGHTING REMOTE UNITS
CM	RECESSED EMERGENCY REMOTE HEAD
ET	DENOTES "EMERGENCY"
CRI	CORRELATED COLOUR TEMPERATURE
EXTERIOR LIGHTING	
	ARM MOUNTED LUMINAIRE ON POLE, DIRECTIONAL, PRIMARY LUMIEN ORIENTATION
	LIGHTING BOLLARD, DIRECTIONAL, ARROW, WHERE INDICATED DENOTES SECONDARY LUMIEN ORIENTATION
TELECOMMUNICATIONS	
	CABLE TRAY (LADDER TYPE)
	CABLE TRAY (BASKET TYPE)
	WALL MOUNTED DATA (I) OR VOICE (V) OUTLET, PROVIDE IV AND ID UNLESS NOTED OTHERWISE
	WALL MOUNTED VOICE (TELEPHONE) OUTLET, PROVIDE IV UNLESS NOTED OTHERWISE
	WALL MOUNTED DATA I/O OUTLET, PROVIDE IV UNLESS NOTED OTHERWISE
	WALL MOUNTED TELEVISION OUTLET
	VIDEO, DATA, OR TV OUTLET AS DESCRIBED ABOVE, MOUNTING ABOVE COUNTER TOP OR AS INSTRUCTED ON SITE
B	ADJACENT TO COMMUNICATIONS OUTLET, INDICATES BLANK-OFF PLATE
HV	HDMI OUTLET
AV	AUDIO VIDEO GATING, AS NOTED
W	WIRELESS ACCESS POINT (WiFi)
VS	AUDIO VISUAL SYSTEM SPEAKER, CEILING MOUNTED
IS	AUDIOVISUAL SYSTEM SPEAKER, WALL MOUNTED
P	PUBLIC ADDRESS SYSTEM SPEAKER, CEILING MOUNTED
+PA	PUBLIC ADDRESS SYSTEM SPEAKER, WALL MOUNTED
CS	PUBLIC ADDRESS HORN SPEAKER WALL MOUNTED
PS	PUBLIC ADDRESS SYSTEM HANDSET
CA	PUBLIC ADDRESS SYSTEM ADMIN CONTROL CONSOLE
I	INTERCOM
VI	VIDEO INTERCOM SYSTEM DOOR CALL STATION
MS	VIDEO INTERCOM SYSTEM MASTER STATION
C	CLOCK
TX	GPS CLOCK SYSTEM MASTER TRANSMITTER
RX	GPS CLOCK SYSTEM GPS RECEIVER
RTX	GPS CLOCK SYSTEM SATELLITE TRANSMITTER (REPEATER)
GRX	GPS CLOCK SYSTEM RECEIVER SWATCH
ACCESS CONTROL AND DOOR HARDWARE	
CR	CARD READER
DL	DOOR ALARM/UNDER
DK	DOOR CONTACT
THIS LEGEND IS GENERIC. ALL SYMBOLS LISTED MAY NOT BE APPLICABLE FOR THIS PROJECT. REFER TO FLOOR PLANS TO DETERMINE USED	

ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	OVERHEAD DOOR CONTACT
	ELECTRIC LATCH
	ELECTRIC STRIKE
	ELECTRIC POWER TRANSFER CABLE
	POWER TRANSFER HINGE
	KEY SWITCH
	ELECTROMAGNETIC LOCK
	MOTORIZED LATCH RETRACTION. PROVIDE 120 V. REQUEST TO EXIT SENSOR
	MUSHROOM HEAD PUSH BUTTON FOR REQUEST TO EXIT. MACH. LOCK RELEASE, OR OTHER PUSH BUTTON AS INDICATED
	DOOR RELEASE ADJACENT TO THE ABOVE. PUSHBUTTON INTEGRATED WITH ELECTRIFIED DOOR HARDWARE DEVICE.
	BARRIER FREE DOOR OPERATOR PUSH BUTTON
	TOULESS "WAVE SWITCH" FOR DOOR OPERATOR CONTROL.
	DOOR BELL Cw SOUNDER AND STROBE
	DOOR BELL (SOUNDER ONLY)
INTRUSION DETECTION	
	GLASS BREAK (GB)
	MOTION DETECTOR (MD)
	KEYPAD (KP)
VIDEO SURVEILLANCE	
	CCTV CAMERA
	CCTV CAMERA, CEILING OR POLE MOUNTED
	CCTV CAMERA, WALL MOUNTED
	PAN/TILT-ZOOM
FIRE DETECTION AND ALARM - GENERAL	
	CENTRAL ALARM AND CONTROL FACILITY
	FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR PANEL
	FIRE ALARM ACTIVE ANNUNCIATOR Cw GRAPHIC
	FIRE ALARM PASSIVE GRAPHIC
	DATA GATHERING PANEL
	FIRE ALARM ULC MONITORING PANEL
	FIRE ALARM ZONE
	FIRE ALARM SUPERVISORY ZONE
	FIRE DETECTION, SUPPRESSION, AND PRE-ACTION CONTROL PANEL
	FIRE DETECTION AND SUPPRESSION CONTROL PANEL
	FIRE ALARM PANEL (FACP, FAMP, FAMP) AS DENOTED ON PLANS.
FIRE DETECTION - INITIATION DEVICES	
	MANUAL PULL STATION (MPS)
	WHERE NOTED ADJACENT TO MANUAL PULL STATIONS, DENOTES PULL STATION Cw POLYCARBONATE (LEANS) COVER.
	WHERE NOTED ADJACENT TO MANUAL PULL STATIONS, DENOTES PULL STATION Cw WIRE GUARD COVER.
	WHERE NOTED ADJACENT TO MANUAL PULL STATIONS OR DETECTOR, DENOTES DEVICE Cw AUXILIARY CONTACT.
	PHOTOELECTRIC SMOKE DETECTOR
	SAME AS ABOVE, WALL MOUNTED
	PHOTOELECTRIC SMOKE DETECTOR
	SAME AS ABOVE, WALL MOUNTED
	PHOTOELECTRIC SMOKE DETECTOR
	SAME AS ABOVE, WALL MOUNTED
	HEAT DETECTOR - 58 DEGREES C (135 DEGREES F) FIXED TEMPERATURE AND RATE OF RISE, RESTORABLE
	SAME AS ABOVE, WALL MOUNTED
	ADJACENT TO HEAT DETECTOR, DENOTES "HIGH TEMPERATURE," 84 DEGREES C (200 DEGREES F) OR AS NOTED ON PLANS.
	ADJACENT TO HEAT DETECTOR SYMBOL, DENOTES "LINEAR HEAT DETECTION CABLE."
	HEAT DETECTOR - 58 DEGREES C (135 DEGREES F) FIXED TEMPERATURE, NON-RESTORABLE
	HEAT DETECTOR - 94 DEGREES C (200 DEGREES F) FIXED TEMPERATURE, NON-RESTORABLE
	LINEAR HEAT DETECTION CABLE
	FLOW SWITCH
FIRE DETECTION AND ALARM - SUPERVISORY DEVICES	
	LOW TANK LEVEL
	LOSS OF POWER
	LOW TEMPERATURE
	PRESSURE SWITCH
	SUPERSEVED VALVE
FIRE DETECTION AND ALARM - SIGNALLING DEVICES	
	ADJACENT TO BELL OR HORN, DENOTES CEILING MOUNTED.
	FIRE ALARM HORN
	FIRE ALARM HORN/STROBE, WALL MOUNTED.
	FIRE ALARM WALL MOUNTED STROBE LIGHT
FIRE DETECTION AND ALARM - OTHER DEVICES	
	END OF LINE DEVICE
	WIRE GUARD
	KEY SWITCH FOR FIREFIGHTER CONTROL OF RECALL OR RECALL, OR AS NOTED
	ISOLATOR MODULE
	OUTPUT RELAY, FUNCTION AS INDICATED
	CONTROL MODULE
	MONITOR MODULE
	MAGNETIC DOOR HOLDER AND RELEASING DEVICE ("HOLD OPEN")
SINGLE LINE DIAGRAM	
	MOLDED CASE CIRCUIT BREAKER
	DISCONNECT (UNFUSED)
	DISCONNECT (FUSED)
	FUSE
	METERING CABINET
	TRANSFORMER
	CONTACTOR
	DISTRIBUTION PANELBOARD

Sheet List Table	
Sheet Number	Sheet Title
E-001	ELECTRICAL LEGEND & SHEET LIST
E-002	ELECTRICAL KEY PLAN
E-101	GROUND FLOOR DEMOLITION PLAN - LIGHTING
E-151	GROUND FLOOR NEW WORK PLAN - LIGHTING
E-201	GROUND FLOOR DEMOLITION PLAN - POWER & SYSTEMS
E-251	GROUND FLOOR NEW WORK PLAN - POWER & SYSTEMS
E-252	NEW WORK & DEMOLITION ROOF PLAN - ELECTRICAL
E-301	ELECTRICAL SCHEDULES & DETAILS
E-302	ELECTRICAL DETAILS SHEET No. 1

[illegible]

All dimensions to be checked and verified on the job by the Contractor. Any discrepancies are to be reported to the Consultant prior to action. Only the latest approved drawings to be used for construction in conformance with all applicable codes, by-laws and regulations. All drawings remain the property of the Consultant.

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250 Rowntree Dairy Road Woodbridge, Ontario
quasarcg.com t: 905.507.0800
Project No.: ED-24-069

Project Information

Enniskillen Public School
Renovation

8145 Old Scugog Road, Hampton, ON, L0B 1J0

Kawartha Pine Ridge District School Board

Drawing Title

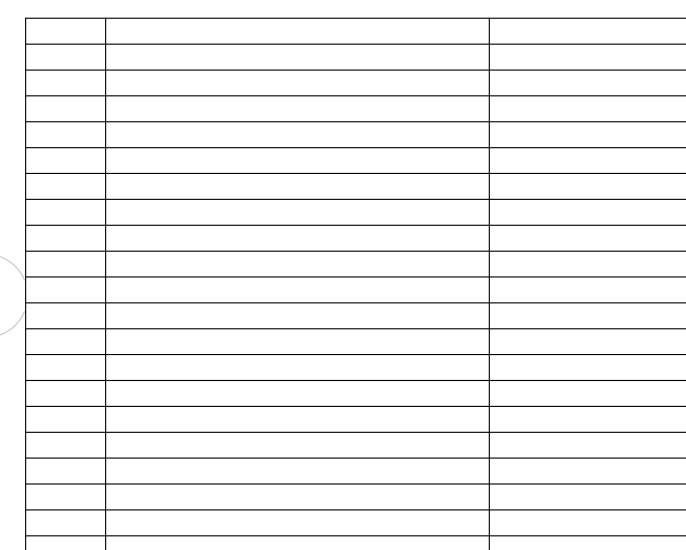
ELECTRICAL LEGEND &
SHEET LIST

Date JAN. 2025	Project No 24018	Drawing No E-00
Drawn by CW		
Scale N.T.S.		

REVIEWED
By Simon M. Terry at 3:22 pm, Feb 04, 2025

1.	THIS DRAWING IS ISSUED TO SHOW 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 TENDERED AREA, UNLESS OBSOLETE, ARE TO BE MAINTAINED AND NOT REMOVED. THE SUITABILITY OF THE WORK IS NOT GUARANTEED.
2.	FOR EXISTING WIRING DEVICES NOT AS BEING REMOVED, BE RESPONSIBLE TO REMOVE DEVICE AND ASSOCIATED WIRING IN ITS ENTIRETY, INCLUDING ANY ASSOCIATED CONDUIT BACK TO SOURCE PANEL OR JUNCTION BOX. BE RESPONSIBLE TO MAINTAIN THE DOWNSTREAM CONTINUITY OF ANY OTHER DEVICES CONNECTED TO THE SAME BRANCH CIRCUIT.

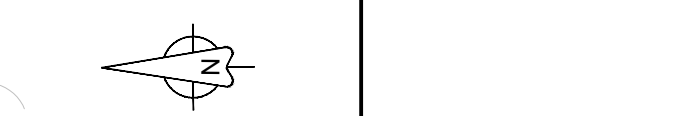
1 EXISTING LUMINAIRES WITHIN THIS SPACE TO BE REMOVED IN THEIR ENTIRETY. BE RESPONSIBLE TO RETAIN EXISTING BRANCH CIRCUIT FROM SOURCE PANELBOARD, MODIFY EXISTING BRANCH CIRCUIT WIRING AS REQUIRED AND RECONNECT TO NEW LUMINAIRE AND SWITCHING ARRANGEMENT AS SHOWN ON NEW WORK PLANS



2.	Issued for Owner Review	2025-01-31
1.	Issued for Coordination	2025-01-29

No.	Revision	Date
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Orientation	Seal
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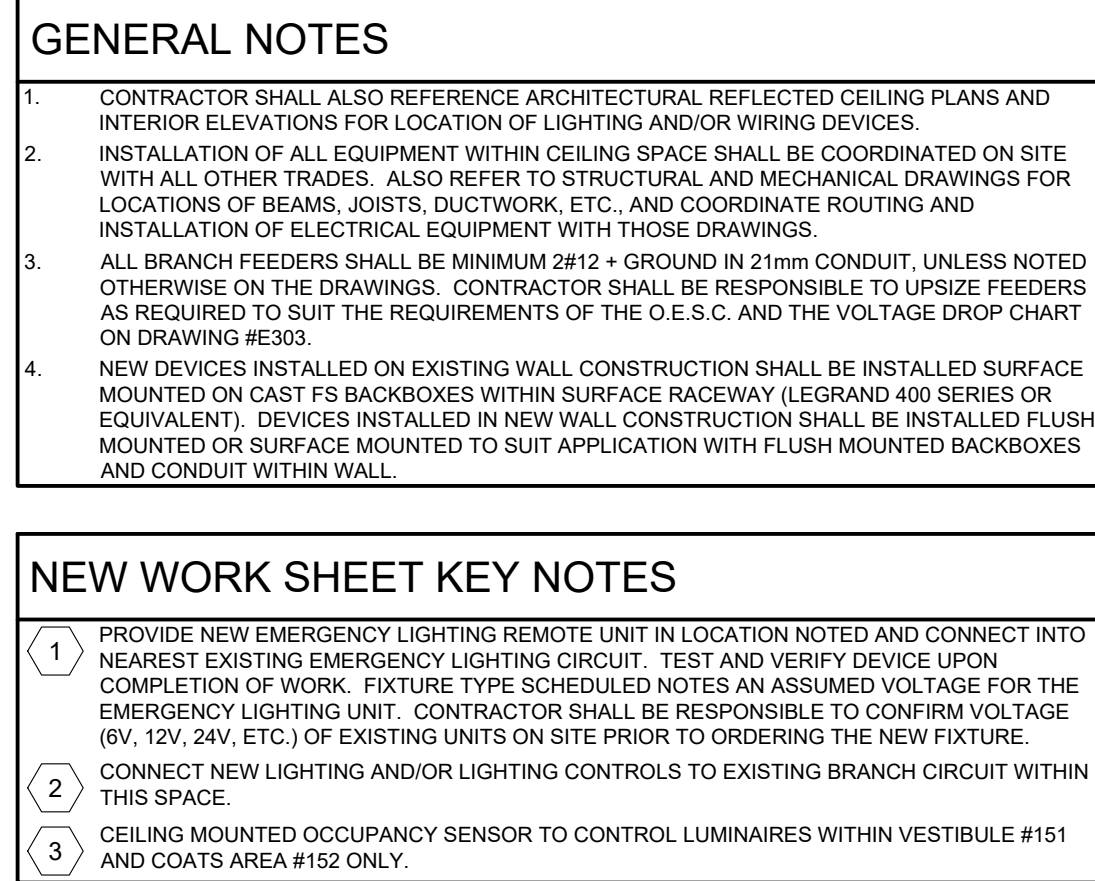
8145 Old Scugog Road, Hampton, ON, L0B 1J0

For
Kawartha Pine Ridge District School Board

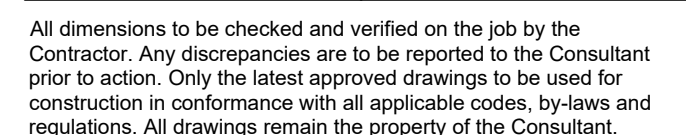
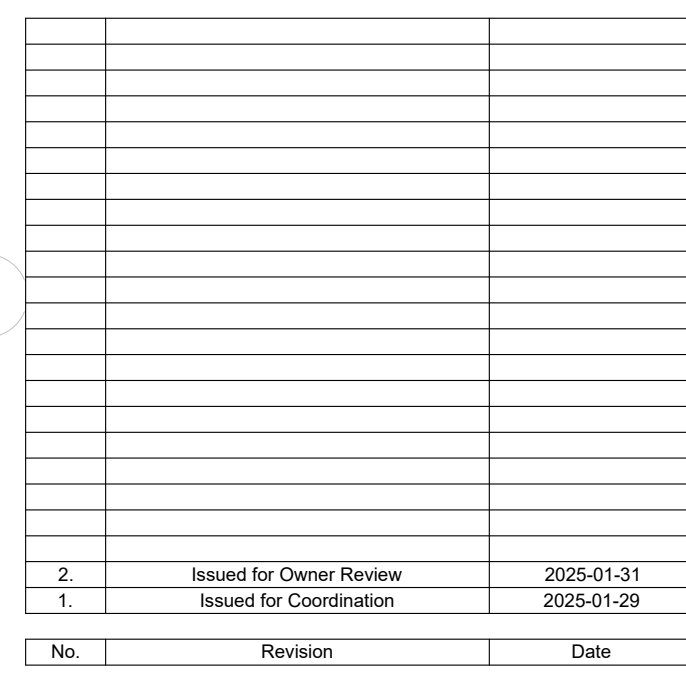
Drawing Title

GROUND FLOOR
DEMOLITION PLAN
LIGHTING

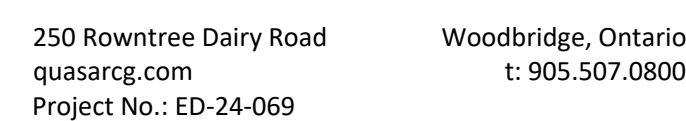
Date JAN. 2025	Project No	Drawing No
Drawn by CW	24018	E-10
Scale 1:100		



1	<p>PROVIDE NEW EMERGENCY LIGHTING REMOTE UNIT IN LOCATION NOTED AND CONNECT INTO NEAREST EXISTING EMERGENCY LIGHTING CIRCUIT. TEST AND VERIFY DEVICE UPON COMPLETION OF WORK. FIXTURE TYPE SCHEDULED NOTES AN ASSUMED VOLTAGE FOR THE EMERGENCY LIGHTING UNIT. CONTRACTOR SHALL BE RESPONSIBLE TO CONFIRM VOLTAGE (6V, 12V, 24V, ETC.) OF EXISTING UNITS ON SITE PRIOR TO ORDERING THE NEW FIXTURE.</p>
2	<p>CONNECT NEW LIGHTING AND/OR LIGHTING CONTROLS TO EXISTING BRANCH CIRCUIT WITHIN THIS SPACE.</p>
3	<p>CEILING MOUNTED OCCUPANCY SENSOR TO CONTROL LUMINAIRES WITHIN VESTIBULE #151 AND COATS AREA #152 ONLY.</p>

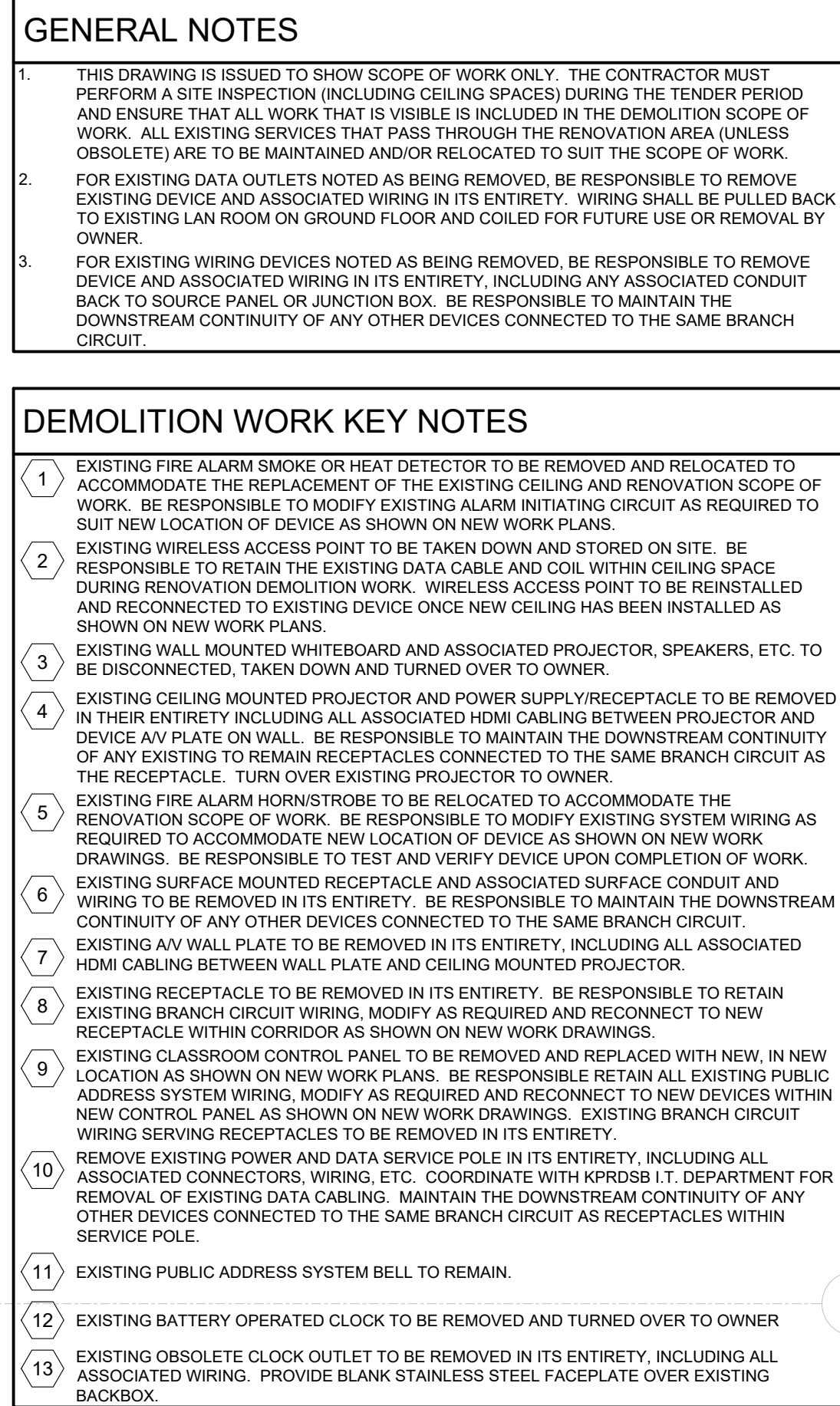


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For
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Date	Project No	Drawing No
JAN. 2025	24018	E-15
Drawn by		
CW		
Scale		
1:100		



THE EXISTING FIRE ALARM SMOKE OR HEAT DETECTOR TO BE REMOVED AND RELOCATED TO AN EXISTING RECEPTACLE WITHIN THE SAME BRANCH CIRCUIT. THE EXISTING PROJECTOR OF WORK WIRE. BE RESPONSIBLE TO MODIFY EXISTING ALARM INITIATING CIRCUIT AS REQUIRED TO SUIT NEW LOCATION OF DEVICES AS SHOWN ON NEW WORK PLANS.

THE EXISTING ACCESS CABLE TO THE EXISTING PROJECTOR OF WORK WIRE ON SITE. BE RESPONSIBLE TO RETAIN THE EXISTING DATA CABLE AND COIL WITHIN CENGLING SPACE. THE EXISTING PROJECTOR OF WORK WIRE TO BE REMOVED AND RECONNECTED TO EXISTING DEVICE ONCE NEW CENGLING HAS BEEN INSTALLED AS SHOWN ON NEW WORK PLANS.

THE EXISTING PROJECTOR OF WORK WIRE AND ASSOCIATED PROJECTOR, SPEAKERS, ETC. TO BE DISCONNECTED, TAKEN DOWN AND TURNED OVER TO OWNER.

EXISTING GELING MOUNTED PROJECTOR AND POWER SUPPLY, HYPERCEPTEC TO BE REMOVED AND RELOCATED TO EXISTING RECEPTACLE WITHIN THE SAME BRANCH CIRCUIT AS THE RECEPTACLE ON WALL. BE RESPONSIBLE TO MAINTAIN THE DOWNSTREAM CONTINUITY OF WIRING TO REMAIN TO RELOCATE TO EXISTING RECEPTACLE ON SAME BRANCH CIRCUIT AS THE RECEPTACLE. TURN OVER EXISTING PROJECTOR TO OWNER.

EXISTING FIRE ALARM HORN/STROBE TO BE RELOCATED TO ACCOMMODATE THE EXISTING PROJECTOR OF WORK WIRE. BE RESPONSIBLE TO MODIFY EXISTING SYSTEM WIRING AS REQUIRED TO ACCOMMODATE NEW LOCATION OF DEVICES AS SHOWN ON NEW WORK PLANS. EXISTING RESPONSIBILITY TO MAINTAIN THE DOWNSTREAM CONTINUITY OF WIRING.

EXISTING SURFACE MOUNTED RECEPTACLE AND ASSOCIATED SURFACE CONDUIT AND WIRING TO BE REMOVED IN ITS ENTIRETY. BE RESPONSIBLE TO MAINTAIN THE DOWNSTREAM CONTINUITY OF WIRING TO REMAIN TO RELOCATE TO EXISTING RECEPTACLE ON SAME BRANCH CIRCUIT AS THE RECEPTACLE.

EXISTING A/V WALL PLATE TO BE REMOVED IN ITS ENTIRETY, INCLUDING ALL ASSOCIATED HOUSING BETWEEN WALL PLATE AND THE EXISTING PROJECTOR.

EXISTING RECEPTACLE TO BE REMOVED IN ITS ENTIRETY, INCLUDING ALL ASSOCIATED HOUSING BETWEEN WALL PLATE AND THE EXISTING PROJECTOR.

EXISTING BRANCH CIRCUIT WIRING, MOUNTED AS REQUIRED AND RECONNECT TO NEW RECEPTACLE WITHIN THE SAME BRANCH CIRCUIT AS SHOWN ON NEW WORK PLANS.

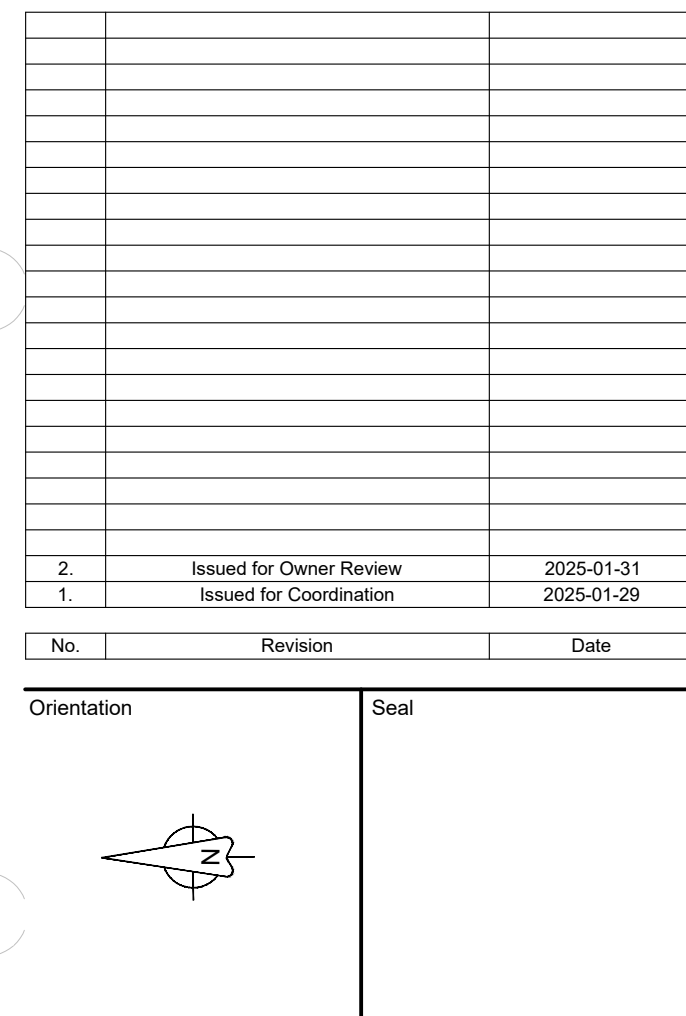
EXISTING PROJECTOR CONDUIT TO BE REMOVED IN ITS ENTIRETY AND PLACED WITH NEW, IN NEW LOCATION AS SHOWN ON NEW WORK PLANS. BE RESPONSIBLE TO RETAIN ALL EXISTING PUBLIC ADDRESS SYSTEM RECEPTACLES AND ASSOCIATED SURFACE CONDUIT AND WIRING WITHIN NEW CONTROL PANEL, AS SHOWN ON NEW WORK DRAWINGS. EXISTING BRANCH CIRCUIT WIRING TO BE REMOVED IN ITS ENTIRETY, INCLUDING ALL ASSOCIATED HOUSING BETWEEN WALL PLATE AND THE EXISTING PROJECTOR.

REMOVE EXISTING POWER AND DATA SERVICES IN ITS ENTIRETY, INCLUDING ALL ASSOCIATED CONNECTIONS, WIRING, ETC. COORDINATE WITH KPDRS-11 DEPARTMENT FOR REMOVAL OF EXISTING DATA SERVICES. BE RESPONSIBLE TO MAINTAIN THE DOWNSTREAM CONTINUITY OF SERVICES CONNECTED TO THE SAME BRANCH CIRCUIT AS RECEPTACLES WITHIN SERVICE POLE.

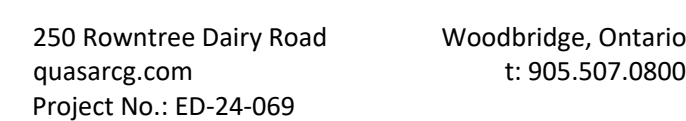
EXISTING PUBLIC ADDRESS SYSTEM BELL TO REMAIN.

EXISTING BATTERY OPERATED CLOCK TO BE REMOVED AND TURNED OVER TO OWNER.

EXISTING OBSOLETE CLOCK OUTLET TO BE REMOVED IN ITS ENTIRETY, INCLUDING ALL ASSOCIATED WIRING. PROVIDE BLACK, STAINLESS STEEL, FACEPLATE OVER EXISTING BATTERY.

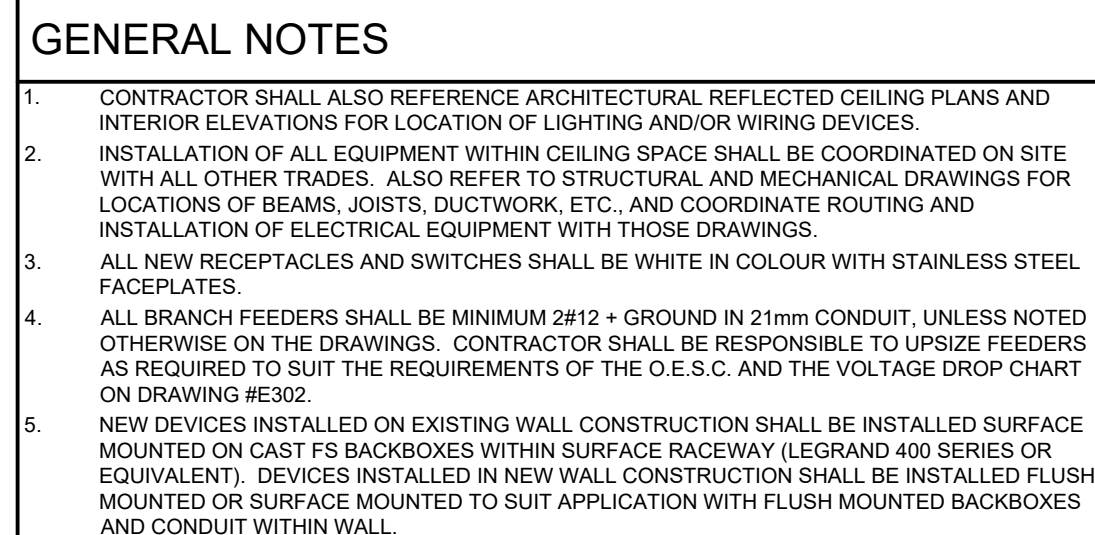


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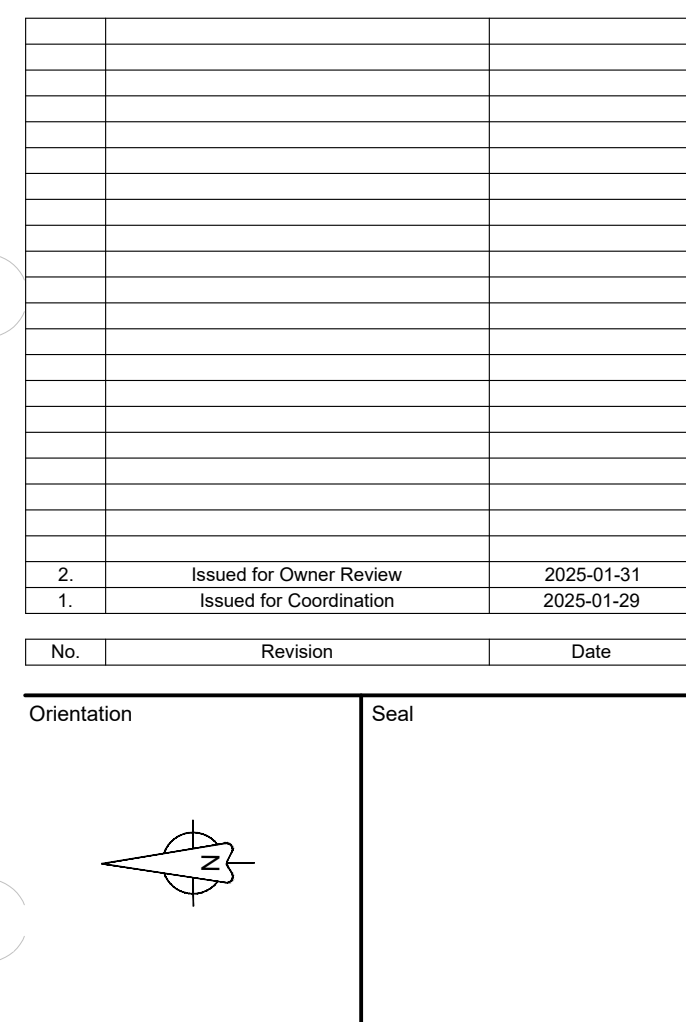
For
Kawartha Pine Ridge District School Board

Date JAN. 2025	Project No 24018	Drawing No E-20
Drawn by CW		
Scale 1:100		

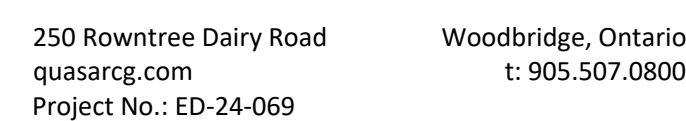


NEW WORK SHEET KEY NOTES

- [illegible]



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For
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Date JAN. 2025	Project No 24018	Drawing No E-25
Drawn by CW		
Scale 1:100		

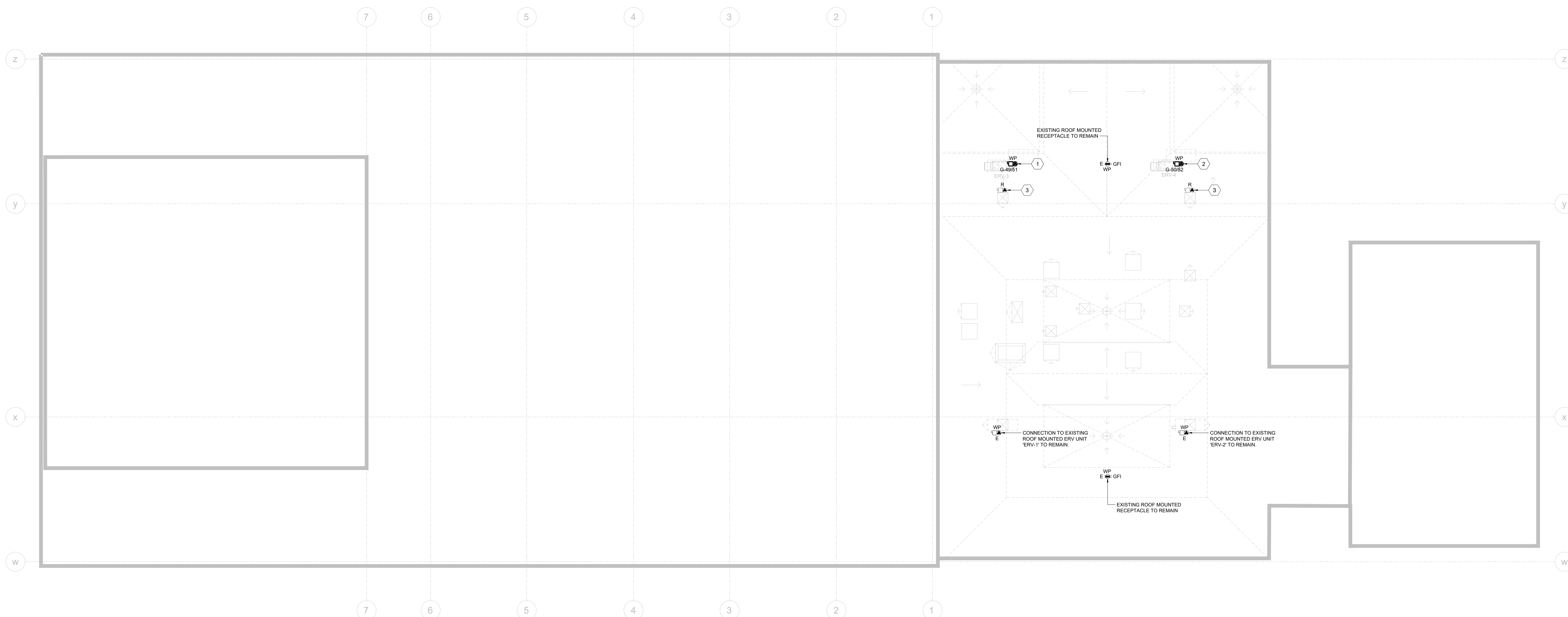
Date JAN. 2025	Project No 24018	Drawing No E-25
Drawn by CW		

- ## GENERAL NOTES

1. CONTRACTOR SHALL ALSO REFERENCE ARCHITECTURAL REFLECTED CEILING PLANS AND INTERIOR ELEVATIONS FOR LOCATION OF LIGHTING AND/OR WIRING DEVICES.
2. INSTALLATION OF ALL EQUIPMENT WITHIN CEILING SPACE SHALL BE COORDINATED ON SITE WITH ALL OTHER TRADES. ALSO REFER TO STRUCTURAL AND MECHANICAL DRAWINGS FOR LOCATION OF BEAM JOISTS, TRUSSES, HANGERS, AND OTHER STRUCTURAL MEMBERS. ROUTING AND INSTALLATION OF ELECTRICAL EQUIPMENT WITH THOSE DRAWINGS.
3. ALL BRANCH FEEDERS SHALL BE MINIMUM #212 + GROUND IN 21mm CONDUIT, UNLESS NOTED OTHERWISE ON THE DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE TO UPSIZE FEEDERS AS REQUIRED TO SUIT THE REQUIREMENTS OF THE O.E.S.C. AND THE VOLTAGE DROP CHART ON DRAWING #E302.

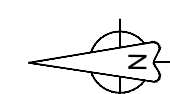
- NEW WORK SHEET KEY NOTES

1. CONNECTION TO NEW ROOF MOUNTED UNIT ERV UNIT ERV-33. FOR BRANCH CIRCUIT INDICATED, EXTEND 3/12" x GROUND IN 2" MIN. CONDUIT FROM ASSOCIATED BREAKER IN NEW PANEL "LP-G" TO ERV LOCATION AND CONNECT COMPLETE. COORDINATE EXACT LOCATION OF ERV AND CONDUIT WITH THE ELECTRICAL CONTRACTOR. REFER TO PANEL SCHEDULE AND PANEL SCHEDULE ON DRAWING #E-301 FOR BREAKER REQUIREMENTS.
2. CONNECTION TO NEW ROOF MOUNTED UNIT ERV UNIT ERV-34. FOR BRANCH CIRCUIT INDICATED, EXTEND 3/12" x GROUND IN 2" MIN. CONDUIT FROM ASSOCIATED BREAKER IN NEW PANEL "LP-G" TO ERV LOCATION AND CONNECT COMPLETE. COORDINATE EXACT LOCATION OF ERV AND CONDUIT WITH THE ELECTRICAL CONTRACTOR. REFER TO PANEL SCHEDULE AND PANEL SCHEDULE ON DRAWING #E-301 FOR BREAKER REQUIREMENTS.
3. EXISTING ROOF MOUNTED EXHAUST FAN TO BE REMOVED IN ITS ENTIRETY. BE RESPONSIBLE FOR THE REMOVAL OF THE EXHAUST FAN. CONTRACTOR TO REMOVE EXHAUST FAN, INCLUDING WIRING AND CONDUIT BACK TO SOURCE PANEL. INCLUDE FOR REMOVAL OF ASSOCIATED MOTOR STARTER. CONTRACTOR TO CONFIRM SOURCE PANEL AND LOCATION OF STARTERS ON DRAWING #E-301.

[illegible]

Orientation

Seal



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250 Rowntree Dairy Road Woodbridge, Ontario
quasarcg.com t: 905.507.0800
Project No.: ED-24-069

Project Information

Enniskillen Public School
Renovation

8145 Old Scugog Road, Hampton, ON, L0B 1J0



Kawartha Pine Ridge District School Board

Drawing Title

NEW WORK & DEMOLITION
ROOF PLAN - ELECTRICAL

Date	JAN. 2025	Project No	Drawing No
Drawn by	CW	24018	E-25
Scale	1:100		

E-252

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 COT UNLESS NOTED OTHERWISE) MINIMUM 60 CRI	MOUNTING	REFERENCE REMARKS
	L1	RECESSED 2 x 4' TROFFER STYLE LED LUMINAIRE COMPLETE WITH HINGED AND LATCHED STEEL LENS FRAME AND POLYCARBONATE PRISMATIC LENS 0.125" THICK. LUMINAIRE SUITABLE FOR INSTALLATION IN T-BAR CEILINGS.	PEERLESS ELECTRIC (OMNILUMEN) LACH SERIES CAT #LACH3-24G-40-40K-12P-MV	120V 32W	4000 LUMEN 4000K	RECESSED T-BAR CEILING	
	L2	100mm (4") DIAMETER RECESSED MOUNTED, SHALLOW PROFILE LED DOWNLIGHT, COMPLETE WITH SEMI-SPHERICAL REFLECTOR, SUITABLE FOR INSTALLATION IN DRYWALL CEILINGS.	PRESCOLITE (OMNILUMEN) LITEFRAME SERIES CAT #LFR-4RDS-M-10L40K-SW-DML1LFR-4RDS-T-SS LFR-4RD-4H	120V 80W	1000 LUMEN 4000K	RECESSED DRYWALL CEILING	

LIGHTING FIXTURE SCHEDULE NOTES:

- UNLESS NOTED OTHERWISE, ACCEPTED ALTERNATE MANUFACTURERS AND SUPPLIERS: CREE CANADA, COOPER LIGHTING, PEERLESS ELECTRIC, SIGNIFY (FORMERLY PHILIPS LIGHTING), VISCORAWIS/IONERRING.
- 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.
- SUBMIT SHOP DRAWINGS FOR CONSULTANT'S REVIEW PRIOR TO PLACING ANY ORDER.

Neutral Wht

Unswitched Hot Blk 120V

Earth Ground

LMR-212 DUAL RELAY ON/OFFS-10V DIMMING ROOM CONTROLLER

Red

Lighting Load (a)

Yel

Lighting Load (b)

0-10VDC Dimming ballast/driver required.

CLASS 2 0-10 VOLT CONTROL WIRING TO ALL LUMINAIRES, TYPICAL

LMR SERIES PRE-TERMINATED CABLES OR CAT5E, FREE TOPOLOGY AND SPLITTER ACCEPTABLE, TYPICAL

DLM LMSW-105 5-BUTTON SCENE SWITCH

RAISE

MASTER DIMMER LOWER

SYMBOL ON PLAN 2

Z1: ON/OFF

Z2: ON/OFF

SPARE

MASTER ON/OFF

DLM DUAL TECHNOLOGY CEILING MOUNT OCCUPANCY SENSOR LMD-100 "DT-C-NV"

SYMBOL ON PLAN 1

DT-C-NV

SYMBOL ON PLAN 1

BASIC PLUG LOAD CONTROLLER LMR-101

NEUTRAL WHT.

HOT BLK 120V

CONTROLLED

GROUNDING

SYMBOL ON PLAN 1

REFER TO PLANS TO CONFIRM CIRCUITING AND IF CONTROLLED AND UNCONTROLLED RECEPTACLES SHARE THE SAME CIRCUIT

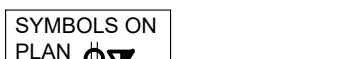
NOTES:

1. MANUFACTURERS:
 - 1.1. BASIS OF DESIGN: WATTSTOPPER.
 - 1.2. SUBSTITUTE MANUFACTURERS:
 - ACUTY BRANDS CONTROLS (INLIGHT)
 - EATON-COOPER GREENGATE
 - LUTRON
 - APPROVED EQUAL.
2. SEQUENCE OF OPERATION:
 - 2.1. MEETING ROOMS AND BOARDROOM:
 - 2.1.1. ASHRAE 90.1-2013, 9.4.1.1h - AUTOMATIC FULL OFF: ALL LIGHTING SHALL BE SHUT OFF WITHIN 20 MINUTES OF ALL OCCUPANTS LEAVING THE SPACE.
 - 2.2. CONTROLLED RECEPTACLE ON OCCUPANCY MODE (AUTO OFF AFTER 20 MINUTES).
 - 2.2.1. ASHRAE 90.1-2013, 9.4.2 "AT LEAST 50% OF ALL 15 AND 20 AMP RECEPTACLES IN CONFERENCE ROOMS SHALL BE CONTROLLED."
3. COMMUNICATION WIRING TOPOLOGY IS SCHEMATIC ONLY.



Kawartha Pine Ridge
District School Board



[illegible]

NOTE: DISTANCES INDICATED IN METRES FROM PANEL TO LOAD FOR SINGLE PHASE

6 TYPICAL SPOT TYPE FIRE DETECTOR INSTALLATION DETAIL
SCALE: NOT TO SCALE

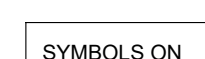
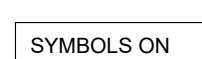
5 DETAIL OF WALL MOUNTED OUTLET BOX
SCALE: NOT TO SCALE

4 MAXIMUM BRANCH WIRING DISTANCE FOR 3% VOLTAGE DROP
SCALE: NOT TO SCALE



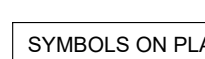
NOTES:

1. REFER TO FLOOR PLANS FOR EXACT NUMBER AND CONFIGURATION OF CONTROL MODULES DEPENDING ON ITS LOCATION.
2. COORDINATE ALL DEVICE LOCATIONS WITH ARCHITECTURAL.
3. MODULAR CONTROL PANELS ARE SUPPLIED AND INSTALLED BY THE GENERAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL INCLUDE PROVISION OF ALL DEVICES, WIRING, ETC.



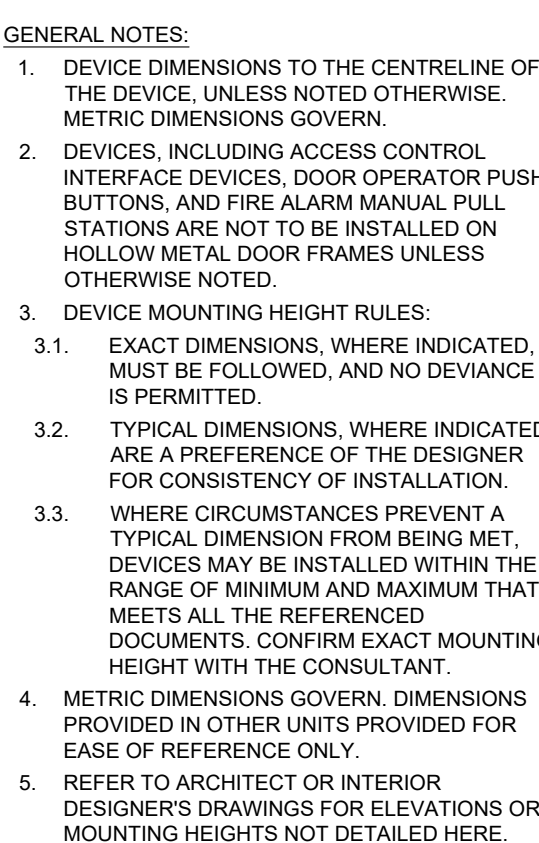
NOTES

1. CONFIRM WITH ARCHITECTURAL DRAWINGS/GENERAL CONTRACTOR FOR APPLICABLE LOCATIONS PRIOR TO ROUGH-IN.
2. MOUNTING PLATES & JACKS SUPPLIED & INSTALLED BY COMMUNICATIONS CONTRACTOR.



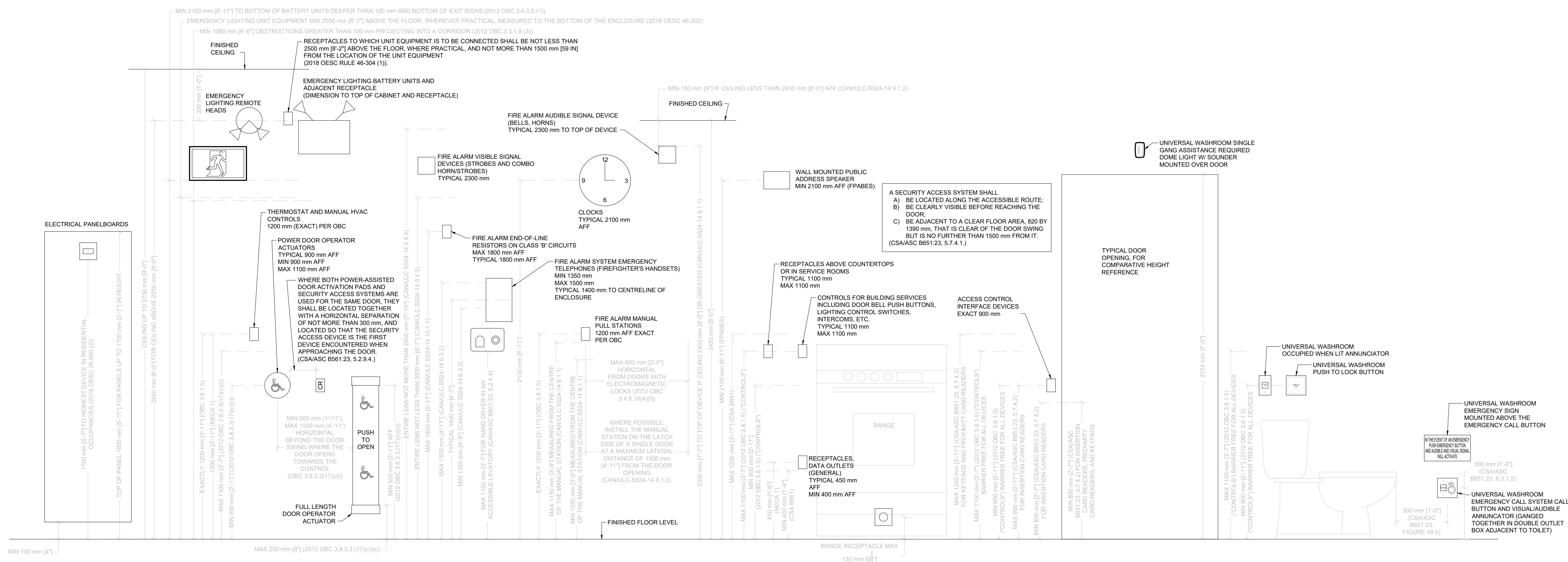
3 MODULAR CLASSROOM CONTROL PANEL DETAIL
SCALE: NOT TO SCALE

2 DETAIL OF UNGANGED POWER AND COMMUNICATION DEVICES
SCALE: NOT TO SCALE

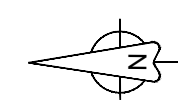


THIS DETAIL IS SPECIFIC TO INSTALLATIONS IN ONTARIO.
OWNER'S ACCESSIBILITY DESIGN GUIDELINES MAY BE MORE STRINGENT.

- REFERENCES AND DOCUMENT ORDER OF PRECEDENCE FOR ACCESSIBLE DESIGN:
1. 2012 ONTARIO BUILDING CODE (OBC), WITH AMENDMENTS EFFECTIVE JAN. 1, 2015 (MANDATORY)
 2. CANULC S224-14 - INSTALLATION OF FIRE ALARM SYSTEMS (MANDATORY)
 3. 2021 ONTARIO ELECTRICAL SAFETY CODE (OESC).
 4. CSA/AS 8651.23 - ACCESSIBLE DESIGN FOR THE BUILT ENVIRONMENT (VOLUNTARY STANDARD)
 5. FINAL PROPOSED ACCESSIBLE DESIGN STANDARD - JULY 2010 (FPABCS, THIS STANDARD IS BEING SUBMITTED TO THE ONTARIO MINISTRY OF MUNICIPAL AFFAIRS AND HOUSING FOR CONSIDERATION IN AN AMENDMENT TO THE ONTARIO BUILDING CODE. TO DATE, THE RECOMMENDATIONS HAVE NOT BEEN ACTED UPON BY THE FABRIS IS THEREFORE NOT MANDATORY)
 6. NECA 1-2010 STANDARD FOR GOOD WIREMAN PRACTICES IN ELECTRIC POWER CONSTRUCTION (TABLE 3 - TYPICAL MOUNTING HEIGHTS)
 7. GOOD ENGINEERING JUDGEMENT AND COMMON SENSE RECOMMENDATIONS



1 TYPICAL MOUNTING HEIGHTS OF WALL MOUNTED DEVICES
SCALE: NOT TO SCALE

[illegible]

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Project No.: ED-24-069

Project Information

**Enniskillen Public School
Renovation**

8145 Old Scugog Road, Hampton, ON, L0B 1J0

For
Kawartha Pine Ridge District School Board

Drawing Title

ELECTRICAL DETAILS
SHEET No. 1

Date	JAN. 2025	Project No	Drawing No
Drawn by	CW	24018	E-30
Scale	N.T.S.		