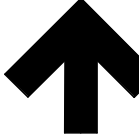
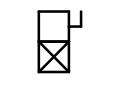
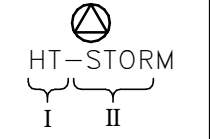


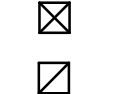


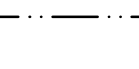

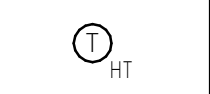
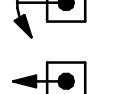


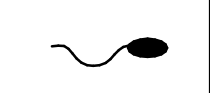
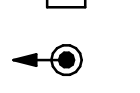

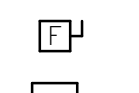

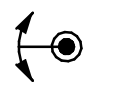


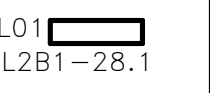


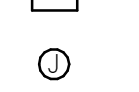

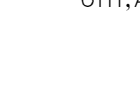

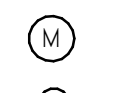
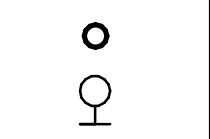
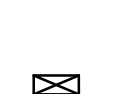

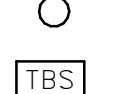
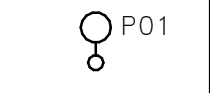

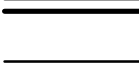
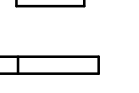


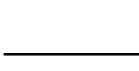



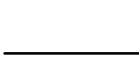


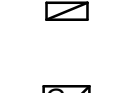
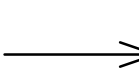
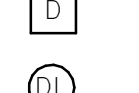

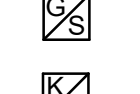

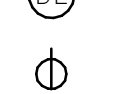
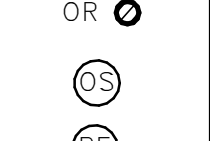
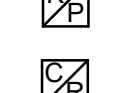


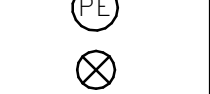
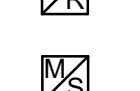

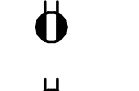
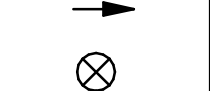
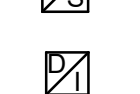
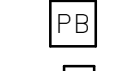
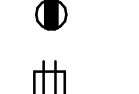
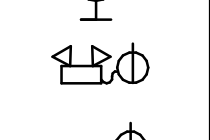
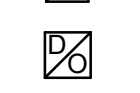
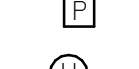
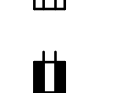
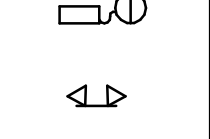


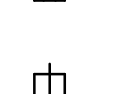




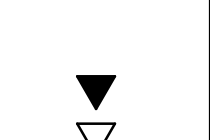
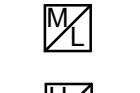


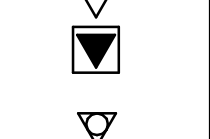
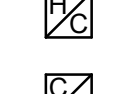

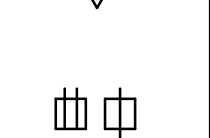
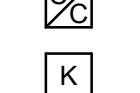
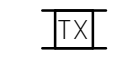

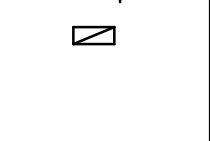
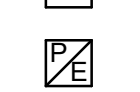


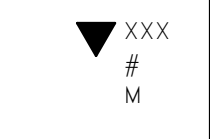
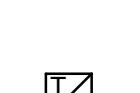

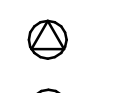

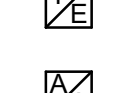

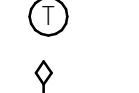
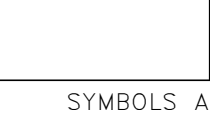

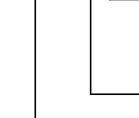
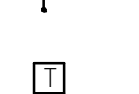

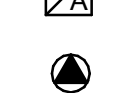

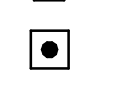



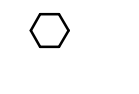





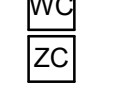
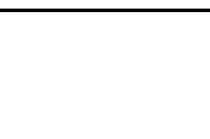

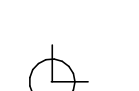


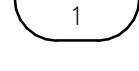













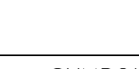
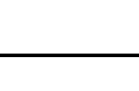
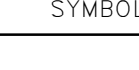









ISSUES		
No.	DESCRIPTION	DATE
A	ISSUED FOR PERMIT	2021-04-12
B	90% SUBMISSION	2021-04-12
C	ISSUED FOR TENDER	2021-05-25

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
<b>GENERAL</b>							
	NORTH ARROW ARROW INDICATES PROJECT NORTH		COMBINATION MAGNETIC STARTER		<b>HEAT TRACING</b> DIRECT CONNECTION TO HEAT TRACING: I - HEAT TRACING II - PIPE SYSTEM ID STORM		<b>CCTV</b> INDOOR PTZ CAMERA
	NOTE REFERENCE TAG N# - DENOTES NOTE NUMBER E-### - DENOTES DRAWING NUMBER		MAGNETIC STARTER		SANITARY TPL: TRAP SEAL PRIMER DCW: DOMESTIC COLD WATER		INDOOR FIXED CAMERA
	BURIED GROUNDING CONDUCTOR		MANUAL STARTER		HEAT TRACING THERMOSTAT		OUTDOOR/WALL/ROOF MOUNTED PTZ CAMERA
	LIGHTNING GROUND CONDUCTOR		HORSEPOWER RATED MOTOR TOGGLE SWITCH		HEAT TRACING IN LINE TEMPERATURE SENSOR		OUTDOOR/WALL/ROOF MOUNTED FIXED CAMERA
	GROUND ROD C/W INSPECTION CAN		HORSEPOWER RATED MOTOR HAND/OFF/AUTO SWITCH		DISCONNECT SWITCH - NON-FUSIBLE		OUTDOOR FIXED CAMERA POLE MOUNTED
	GROUNDING CONDUCTOR CONNECTION		DISCONNECT SWITCH - NON-FUSIBLE		FUSED DISCONNECT SWITCH		OUTDOOR PTZ CAMERA POLE MOUNTED
	AIR TERMINAL (LIGHTNING ROD)		DISCONNECT SWITCH - NON-FUSIBLE		MOTORIZED DAMPER		STEEL POLE BASE MOUNTED 6m - DENOTES POLE HEIGHT A - DENOTES POLE BASE
	CONDUCTOR DOWN TO BUILDING GROUND LOOP		DISCONNECT SWITCH - NON-FUSIBLE		CONTROL PANEL		TYPE REMOTE PANEL RP2 - DENOTES REMOTE PANEL NO.2 - 300mm
	DIRECT BURIED CONDUIT(S) OR CABLE(S)		DISCONNECT SWITCH - NON-FUSIBLE		JUNCTION BOX		CLOSED CIRCUIT TELEVISION VIDEO DISPLAY 2 - DENOTES MONITOR TYPE
	CONCRETE ENCASED CONDUIT(S)		DISCONNECT SWITCH - NON-FUSIBLE		MOTOR		CONCRETE BASE, NOT HINGED
	EXPOSED CONDUIT OR CABLE		DISCONNECT SWITCH - NON-FUSIBLE		BLANK JUNCTION BOX		HINGED
	CONDUIT OR CABLE TURNING UP		DISCONNECT SWITCH - NON-FUSIBLE		TERMINAL BOX WITH TERMINAL STRIPS		KEY PAD
	CONDUIT OR CABLE TURNING DOWN		DISCONNECT SWITCH - NON-FUSIBLE		BASEBOARD HEATING UNIT		CARD READER
	SLOPE - ARROW INDICATES DOWNWARD SLOPE		DISCONNECT SWITCH - NON-FUSIBLE		ELECTRIC CONVECTION HEATER		DOOR MONITOR SWITCH
	MANHOLE		DISCONNECT SWITCH - NON-FUSIBLE		ELECTRIC FORCE-FLOW HEATER		DATA IN
	HAND HOLE		DISCONNECT SWITCH - NON-FUSIBLE		DOOR CONTROL PANEL		DATA OUT
	CONCRETE PULL BOX (MINIMUM INTERNAL DIMENSIONS: 900x610x900)		DISCONNECT SWITCH - NON-FUSIBLE		DOCK LEVELER		DOOR BY-PASS KEYED SWITCH
	PULL BOX		DISCONNECT SWITCH - NON-FUSIBLE		SINGLE RECEPTACLE		ELECTRIC DOOR STRIKE
	UTILITY POLE		DISCONNECT SWITCH - NON-FUSIBLE		DUPLEX RECEPTACLE		MAGNETIC DOOR LOCK
	POWER AND/OR DISTRIBUTION PANELBOARD - SURFACE MOUNTED		DISCONNECT SWITCH - NON-FUSIBLE		GFCI DUPLEX RECEPTACLE		ELEVATOR HALL CALL BUTTON
	PAD MOUNT TRANSFORMER		DISCONNECT SWITCH - NON-FUSIBLE		COMBINATION TWO DUPLEX RECEPTABLES/TELECOMMUNICATION OUTLET (DUPLICATED ON COMMS DRAWINGS)		MAGNETIC LOCK RELEASE/RESET KEY
	SUSPENDED TRANSFORMER		DISCONNECT SWITCH - NON-FUSIBLE		COMBINATION MULTI-RECEPTABLE/TELECOMMUNICATION FLOOR BOX (DUPLICATED ON COMMS DRAWINGS)		POWER ASSIST
	DENOTES PANEL		DISCONNECT SWITCH - NON-FUSIBLE		LINE DENOTES ABOVE COUNTER HEIGHT OUTLET 1200 AFF OR 300 ABOVE COUNTER, UNLESS OTHERWISE NOTED		POWER ASSIST CONNECTION
	DENOTES SEQUENTIAL IDENTIFIER (1,2,3,...)		DISCONNECT SWITCH - NON-FUSIBLE		DENOTES SEQUENTIAL IDENTIFIER (1,2,3,...)		PUSH BUTTON REMOTE RELEASE
	DENOTES REDUNDANCY IDENTIFIER (A,B)		DISCONNECT SWITCH - NON-FUSIBLE		DENOTES REDUNDANCY IDENTIFIER (A,B)		PUSH BUTTON DURESS
	DENOTES FLOOR (B,1,2,3) *UPS PANELS DENOTE PDU SOURCE		DISCONNECT SWITCH - NON-FUSIBLE		DENOTES FLOOR (B,1,2,3) *UPS PANELS DENOTE PDU SOURCE		PUSH BAR BOLT RETRACT
	DENOTES NON-LIFE SAFETY DENOTES LIFE SAFETY DENOTES LIGHTING DENOTES UNINTERRUPTIBLE POWER SUPPLY *U2A1 DENOTES FROM PDU-U2A		DISCONNECT SWITCH - NON-FUSIBLE		DENOTES NON-LIFE SAFETY DENOTES LIFE SAFETY DENOTES LIGHTING DENOTES UNINTERRUPTIBLE POWER SUPPLY *U2A1 DENOTES FROM PDU-U2A		PUSH BAR ELECTRIC BOLT RETRACT
	DISTRIBUTION PANEL POWER PANEL RECEPTACLE PANEL LIGHTING PANEL SWITCHBOARD TRANSFORMER POWER DISTRIBUTION UNIT		DISCONNECT SWITCH - NON-FUSIBLE		DISTRIBUTION PANEL POWER PANEL RECEPTACLE PANEL LIGHTING PANEL SWITCHBOARD TRANSFORMER POWER DISTRIBUTION UNIT		PASSIVE INFRARED MOTION DETECTOR
	MECHANICAL OR ELECTRICAL EQUIPMENT		DISCONNECT SWITCH - NON-FUSIBLE		MECHANICAL OR ELECTRICAL EQUIPMENT		
	TAG NUMBER		DISCONNECT SWITCH - NON-FUSIBLE		TAG NUMBER		
	AC - AIR CONDITIONING UNIT		DISCONNECT SWITCH - NON-FUSIBLE		AC - AIR CONDITIONING UNIT		
	ACC - AIR COOLED CONDENSER UNIT		DISCONNECT SWITCH - NON-FUSIBLE		ACC - AIR COOLED CONDENSER UNIT		
	C - COMPRESSOR		DISCONNECT SWITCH - NON-FUSIBLE		C - COMPRESSOR		
	CH - CABINET UNIT HEATER		DISCONNECT SWITCH - NON-FUSIBLE		CH - CABINET UNIT HEATER		
	CU - CONDENSER UNIT		DISCONNECT SWITCH - NON-FUSIBLE		CU - CONDENSER UNIT		
	DH - DOOR HEATER		DISCONNECT SWITCH - NON-FUSIBLE		DH - DOOR HEATER		
	EF - EXHAUST FAN		DISCONNECT SWITCH - NON-FUSIBLE		EF - EXHAUST FAN		
	ETU - EXHAUST TERMINAL UNIT		DISCONNECT SWITCH - NON-FUSIBLE		ETU - EXHAUST TERMINAL UNIT		
	EW - EYE WASH		DISCONNECT SWITCH - NON-FUSIBLE		EW - EYE WASH		
	H - HUMIDIFIER		DISCONNECT SWITCH - NON-FUSIBLE		H - HUMIDIFIER		
	HV - HEATING AND VENTILATING UNIT		DISCONNECT SWITCH - NON-FUSIBLE		HV - HEATING AND VENTILATING UNIT		
	HW - HOT WATER HEATER		DISCONNECT SWITCH - NON-FUSIBLE		HW - HOT WATER HEATER		
	MD - MOTORIZED DAMPER				MD - MOTORIZED DAMPER		
	P - PUMP				P - PUMP		
	RAF - RETURN AIR FAN				RAF - RETURN AIR FAN		
	SF - SUPPLY FAN				SF - SUPPLY FAN		
	UH - UNIT HEATER				UH - UNIT HEATER		
	V - VENTILATING UNIT				V - VENTILATING UNIT		

**CONSULTANTS**

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**SEAL**

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**PROJECT TITLE**

**CITY OF TORONTO  
 ACCESSIBILITY UPGRADES**

**PROJECT ADDRESS**

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**PROJECT NO:**

9119- 19- 0162 / IBI 122260

<b>DRAWN BY:</b> M. BOJIC	<b>CHECKED BY:</b> P. WILLIAMS
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<b>PROJECT MGR:</b> F. BOLOURIAN	<b>APPROVED BY:</b> P. WILLIAMS
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**SHEET TITLE**  
**ELECTRICAL LEGEND 1**

<b>SHEET NUMBER</b> G4001	<b>ISSUE</b> C
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## MOUNTING HEIGHTS SCHEDULE

MOUNTING HEIGHTS TO TOP OF DEVICE.  
ALL DIMENSIONS ARE ABOVE FINISHED FLOOR (AFF) UNLESS NOTED OTHERWISE.

LIGHT SWITCH	1050mm	
RECEPTACLE - FINISHED AREAS	460mm	
RECEPTACLE - UNFINISHED AREAS	1050mm	
RECEPTACLE - ABOVE COUNTER	300mm	ABOVE COUNTER
DATA OUTLET - FINISHED AREA	460mm	
DATA OUTLET - UNFINISHED AREA	1050mm	
FIRE ALARM MANUAL PULL STATION	1200mm	
FIRE ALARM HORN/STROBE	2460mm	
FIRE ALARM STROBE	2460mm	
FIRE ALARM END OF LINE DEVICE	1500mm	
FIRE ALARM HEAT DETECTOR	CEILING	
FIRE ALARM SMOKE DETECTOR	CEILING	
FIRE ALARM REMOTE ANNUNCIATOR	2000mm	
PANEL	2000mm	
CONTROL PANEL	2000mm	
MOTOR STARTER	1800mm	
DISCONNECT SWITCH	1800mm	
PUSH BUTTON STATION	1050mm	
DOOR ACCESS CONTROL CARD READER	1050mm	
VIDEO INTERCOM		AS PER MANUF. INSTRUCTION
DOOR BY-PASS KEYED SWITCH	1050mm	
BATTERY OPERATED EMERGENCY LIGHT	2700mm	
EMERGENCY LIGHT BATTERY UNIT	2700mm	
THERMOSTAT	1200mm	

MOUNTING HEIGHTS AS APPLICABLE

### GENERAL NOTES:

1. PROVIDE 1-#6 GND WIRE FOR ALL UNDERGROUND EMPTY CONDUITS AND COMMUNICATIONS CONDUITS WITHOUT METAL WIRING/CABLES TO FACILITATE FUTURE DETECTION.
2. NO SPLICES ARE ALLOWED FOR COMMUNICATION CABLES.
3. NO SPLICES ARE ALLOWED BELOW GRADE FOR POWER WIRE AND CABLE.
4. THERE MUST BE A BREAK IN ALL UNDERGROUND CONDUITS OUTSIDE THE BUILDING/TOWERS/ELECTRICAL/COMMUNICATIONS/BOILER ROOM TO ALLOW DRAINAGE OF RACEWAY BEFORE ENTERING THE ROOMS.
5. PROVIDE LAYOUT (WITH DIMENSIONS) OF ALL UNDERGROUND PULL POINTS INCLUDING HAND HOLES, MAN HOLES AND CONCRETE PULL BOXES TO THE CONSULTANT FOR APPROVAL PRIOR TO INSTALLATION.
6. INSTALL HAND HOLES AWAY FROM MAJOR TRAFFIC AREAS (TYPICAL).
7. PROVIDE HEAT TRACING PROTECTION FOR WATER PIPES, STORM PIPES AND SANITARY PIPES AS SHOWN ON ELECTRICAL DRAWINGS. REFER TO MECHANICAL DRAWINGS FOR PIPING LAYOUT. HEAT TRACING SHALL BE RAYCHEM MODEL #8XL-TRACE, 208V, 1PH, SELF REGULATING TRACING CABLE OR APPROVED EQUIVALENT, C/W POWER SUPPLY MODULE, THERMOSTAT AND ALL ACCESSORIES FOR A COMPLETE AND FUNCTIONING SYSTEM. STARTUP TEMPERATURE -29°C (-20°F).
8. WHERE CONDUITS ARE INSTALLED ACROSS EXPANSION JOINTS, PROVIDE CONDUITS WITH EXPANSION/CONTRACTION FITTINGS.
9. **ELEVATOR FIRE ALARM AUTOMATIC RECALL:**  
ELEVATOR LOBBY MOUNTED FIRE DETECTORS AND SECURITY PANEL TO RECALL ELEVATORS TO DESIGNATED LEVEL UPON FIRE ALARM. SHOULD DETECTOR AT DESIGNATED LEVEL ELEVATOR LOBBY INDICATE FIRE, ELEVATOR TO BE DIRECTED TO ALTERNATE LEVEL. REFER TO ELEVATOR AUTOMATIC FIRE RECAL SCHEDULE. ELEVATOR CONTRACTOR TO COORDINATE WITH TSSA AND CONFIRM DESIGNATED/ALTERNATE LEVELS.
10. SMOKE DETECTOR AT TOP OF ELEVATOR SHAFT TO BE AIR SAMPLING SMOKE DETECTOR TYPE. INSTALL CONTROL UNIT IN A TAMPER PROOF ENCLOSURE (NEMA 4X) OUTSIDE OF ELEVATOR CLOSET. AIR SAMPLING SMOKE DETECTOR TO BE EST READY SET BY EDWARDS OR APPROVED EQUAL.
11. SITE PLAN DRAWINGS INDICATE UNDERGROUND POWER CONDUITS AND CORRESPONDING PULL POINTS (CONCRETE PULL BOXES, HAND HOLES OR MAN HOLES). WHERE OEC REQUIRES ADDITIONAL PULL POINTS FOR WIRING SEPARATION, PROVIDE ADDITIONAL CONCRETE PULL BOX (OR HAND HOLE) AS REQUIRED. IF AN ADDITIONAL MAN HOLE IS REQUIRED, IT IS PREFERRED TO PROVIDE AN ADDITIONAL HAND HOLE OR CONCRETE PULL BOX IF POSSIBLE.

CLIENT

**CITY OF TORONTO**



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### ISSUES

No.	DESCRIPTION	DATE
A	ISSUED FOR PERMIT	2021-04-12
B	90% SUBMISSION	2021-04-12
C	ISSUED FOR TENDER	2021-05-25

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PROJECT TITLE  
**CITY OF TORONTO  
ACCESSIBILITY UPGRADES**

PROJECT ADDRESS

PROJECT NO:  
9119- 19- 0162 / IBI 122260

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PROJECT MGR: <b>F. BOLOURIAN</b>	APPROVED BY: <b>P. WILLIAMS</b>

SHEET TITLE  
**ELECTRICAL GENERAL  
NOTES**

SHEET NUMBER  
**G4003**

ISSUE  
**C**