

POWER SINGLE LINE DIAGRAM SYMBOLS

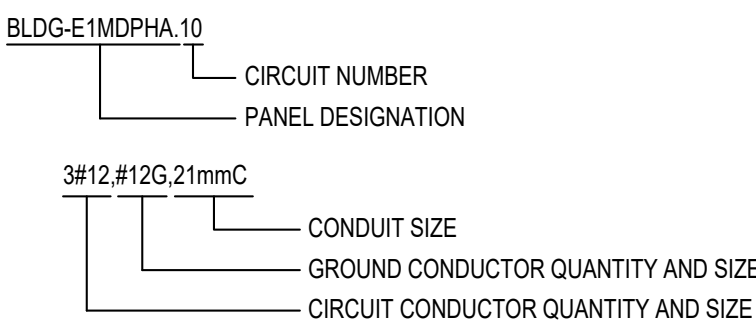
	CKT BREAKER, '###' INDICATES TRIP SETTING, '#' INDICATES NUMBER OF POLES
	FUSED SWITCH, '###' INDICATES TRIP SETTING, '#' INDICATES NUMBER OF POLES
	ENCLOSED CIRCUIT BREAKER
	ENCLOSED NON-FUSED SWITCH
	ENCLOSED FUSED SWITCH
	KIRK KEY INTERLOCK
	SOLID STATE, ELECTRONIC ADJUSTABLE TRIP
	GROUND FAULT PROTECTION
	SURGE PROTECTIVE DEVICE
	DIGITAL MULTIMETER
	UTILITY METER
	TRANSFORMER
	PANELBOARD
	GROUND
	POTENTIAL TRANSFORMER
	CURRENT TRANSFORMER

POWER DISTRIBUTION AND SMALL POWER

	DUPLEX RECEPTACLE, WALL MOUNTED		DOUBLE DUPLEX RECEPTACLE, WALL MOUNTED
	DUPLEX RECEPTACLE, ABOVE BACKPLASH OF CABINET, COUNTERTOP OR SINK		DOUBLE DUPLEX RECEPTACLE, ABOVE BACKPLASH OF CABINET, COUNTERTOP OR SINK
	DUPLEX RECEPTACLE, FLUSH MTD IN CEILING		DOUBLE DUPLEX RECEPTACLE, FLUSH MOUNTED IN CEILING
	HALF SWITCHED DUPLEX RECEPTACLE, WALL MOUNTED		SIMPLEX RECEPTACLE, WALL MOUNTED
	SPECIAL PURPOSE RECEPTACLE, WALL MOUNTED, NEMA CONFIGURATION AS NOTED ON PLANS		SPECIAL PURPOSE RECEPTACLE, CEILING MOUNTED NEMA CONFIGURATION AS NOTED ON PLANS
	SHADING REPRESENTS RECEPTACLE ON LIFE SAFETY BRANCH		SHADING REPRESENTS RECEPTACLE ON UPS BRANCH
	SHADING REPRESENTS RECEPTACLE ON NON-LIFE SAFETY BRANCH		SHADING REPRESENTS RECEPTACLE WITH ISOLATED GROUND
	DISCONNECT SWITCH, REFER TO EQUIPMENT CONNECTION SCHEDULE FOR DISCONNECT TYPE, U ON		MOTOR, SUBSCRIPT 'X' DENOTES MOTOR DESIGNATION, REFER TO EQUIPMENT CONNECTION SCHEDULE
	DIRECT CONNECTION, WALL MOUNTED, SUBSCRIPT 'X' INDICATES UNIQUE IDENTIFIER, REFER TO EQUIPMENT CONNECTION SCHEDULE.		DIRECT CONNECTION, CEILING MOUNTED, SUBSCRIPT 'X' INDICATES UNIQUE IDENTIFIER, REFER TO EQUIPMENT CONNECTION SCHEDULE.
	GROUND BUS BAR		COMBINATION MOTOR STARTER DISCONNECT
	FURNITURE OUTLET, WALL MOUNTED		MOTOR STARTER
	PANELBOARD		VARIABLE FREQUENCY DRIVE
	TRANSFORMER		
	FLOOR BOX, DUPLEX RECEPTACLE		POWER, LOW VOLTAGE FLOOR POKE-THROUGH [2-120V, 20A DUPLEX RECEPTACLES] [1-DATA OUTLET FOR COMMUNICATION] [1-OUTLET FOR AV SYSTEM]
	FLOOR BOX, DOUBLE DUPLEX RECPT		

RECEPTACLE TYPE
x 12
NUMBER INDICATES BRANCH CIRCUIT NUMBER

CIRCUITING



TAGS AND CALL OUT SYMBOLS

	DETAIL CALLOUT DETAIL DESIGNATION SHEET NUMBER		REVISION CALLOUT
			KEYNOTE CALLOUT

LIGHTING, LIGHITNG SWITCHING & CONTROLS

	AF10 7ab	UPPER CASE LETTERS INDICATE LIGHTING FIXTURE TYPE NUMBER INDICATES CIRCUIT NUMBER, LOWER CASE LETTER INDICATES SWITCH/LEG
		LIGHTING FIXTURE ON NORMAL BRANCH POWER - CEILING MOUNTED
		LIGHTING FIXTURE ON NORMAL BRANCH POWER - WALL MOUNTED
		STRIP LIGHTING FIXTURE ON NORMAL BRANCH POWER
		STRIP LIGHTING FIXTURE ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST
		PENDANT LINEAR FIXTURE ON NORMAL BRANCH POWER
		PENDANT LINEAR FIXTURE ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST
		DOWNLIGHT LIGHTING FIXTURE ON NORMAL BRANCH POWER - RECESSED MOUNTED
		DOWNLIGHT LIGHTING FIXTURE ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST - RECESSED MOUNTED
		WALL WASH LIGHTING FIXTURE ON NORMAL BRANCH POWER - ARROW INDICATES DIRECTION OF BEAM
		WALL WASH LIGHTING FIXTURE ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST - ARROW INDICATES DIRECTION OF BEAM
		WALL SCONCE LIGHTING FIXTURE ON NORMAL BRANCH POWER - WALL MOUNTED
		WALL SCONCE LIGHTING FIXTURE ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST - WALL MOUNTED
		BOLLARD LIGHT FIXTURE ON NORMAL BRANCH POWER
		BOLLARD ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST
		EXIT SIGN - SINGLE FACE - CEILING MOUNTED
		EXIT SIGN - SINGLE FACE - WALL MOUNTED
		LOW LEVEL EXIT SIGN - SINGLE FACE - WALL OR DOOR MOUNTED
		DUAL REMOTE EMERGENCY LIGHT WITH INTEGRAL BATTERY PACK - WALL MOUNTED
		SINGLE REMOTE EMERGENCY LIGHT - WALL MOUNTED
		DUAL REMOTE EMERGENCY LIGHT - WALL MOUNTED
	\$ x ab	SPST SWITCH, WALL MOUNTED.
	OS	OCCUPANCY SENSOR, CEILING MOUNTED
	H-OS	OCCUPANCY SENSOR, WALL MOUNTED
	VS	VACANCY SENSOR, CEILING MOUNTED
	H-VS	VACANCY SENSOR, WALL MOUNTED
	DIM x	DIMMING CONTROL STATION, SUBSCRIPT 'X' INDICATES TYPE OR UNIQUE IDENTIFIER
	LCP	LIGHTING CONTROL PANEL
		SHUNT TRIP PUSH BUTTON
	TC x	TIME CLOCK, SUBSCRIPT 'X' INDICATES UNIQUE IDENTIFIER
	DS x	DAYLIGHT SENSOR, CEILING MOUNTED
	PC x	PHOTOCELL
		'ab' INDICATES INDIVIDUAL GANGED SWITCHES AND ASSOCIATED SWITCH LEGS CONTROLLED, SUBSCRIPT 'X' INDICATES: 2 - DOUBLE POLE 3 - THREE WAY 4 - FOUR WAY D - WALL BOX DIMMER K - KEY OPERATED LV - LOW VOLTAGE P - PILOT LIGHT T - WALL BOX TIMER WP - WEATHER PROOF

AUDIOVISUAL SYSTEM DEVICES

DEVICE LEGEND	DEVICE TAG	AAAAM y	MOUNTING TAG SECONDARY ATTRIBUTE
ALL AV SYSTEM DEVICES ARE WALL MOUNTED UNLESS OTHERWISE INDICATED BY MOUNTING TAG			
	AVx	AV CONNECTIVITY PLATE	'x' DENOTES TYPE. REFER TO AV SYSTEMS DETAILS
	FBx	FLOOR BOX	'x' DENOTES TYPE. REFER TO AV SYSTEMS DETAILS
	PTx	POKE THROUGH	'x' DENOTES TYPE. REFER TO AV SYSTEMS DETAILS
	TBx	TABLE BOX	'x' DENOTES TYPE. REFER TO AV SYSTEMS DETAILS
	D	DISPLAY	
	TV	TELEVISION OUTLET	
	PRS	PROJECTOR SCREEN	
	PRJ	PROJECTOR	
	CAM	AV SYSTEM CAMERA	
	IRR	INFRARED RADIATOR	
	ANT	ANTENNA	
	ROS	AV SYSTEM ROOM OCCUPANCY SENSOR	
	PS	AV SYSTEM PARTITION SENSOR	
	LS	PHOTOMETRIC SENSOR	
	BN	BACnet INTERFACE TO AV SYSTEM	
	RSP	ROOM SCHEDULING PANEL	
	RSS	ROOM SCHEDULING SIGN	
	BP	BUTTON PANEL	
	S	AV SYSTEM SPEAKER	
	SUB	SUBWOOFER SPEAKER	
	LCR	LOCAL CRENDENZA RACK	
	AVR	AV RACK	
	SI	SHADE/DRAPE INTERFACE TO AV SYSTEM	
	MIC	MICROPHONE	
	TS	TOUCH SCREEN	
	LI	LIGHTING INTERFACE TO AV SYSTEM	

TELECOMMUNICATIONS SYSTEM

	WALL MOUNT VOICE OUTLET		FLOOR MOUNT VOICE OUTLET
	WALL MOUNT DATA OUTLET		FLOOR MOUNT DATA OUTLET
	WALL MOUNT DATA/VOICE OUTLET		FLOOR MOUNT DATA/VOICE OUTLET
	CEILING MOUNT DATA FOR WIRELESS ACCESS POINT		
DEVICE LEGEND			
	x	NUMBER OF DATA JACKS	
	x/y	NUMBER OF DATA/VOICE JACKS	
NO SUBSCRIPT = (1) DATA/VOICE			
MOUNTING: OUTLET MOUNTING HEIGHTS TO BE COORDINATED WITH INTERIOR DESIGNER DURING DD PHASE			

SECURITY SYSTEM

DEVICE LEGEND	DEVICE TAG	AAAAM y	MOUNTING TAG SECONDARY ATTRIBUTE
ALL SECURITY SYSTEM DEVICES ARE WALL MOUNTED UNLESS OTHERWISE INDICATED BY MOUNTING TAG			
	ACP	ACCESS CONTROL PANEL	
	ALM	ALARM DEVICE	
	DC	DOOR CONTACT	
	EL	ELECTRIFIED LOCKSET	
	ES	ELECTRIC STRIKE	
	IC	INTERCOM	
	KP	KEYPAD	
	ML	MAGNETIC LOCK	
	PB	PUSH BUTTON	
	PO	PUSH TO OPEN PLATE	
	LFE	LOW FREQUENCY EXCITER	
	IR	INFRARED READER	
	ROU	REMOTE DISPLAY UNIT	
	LAR	LOCAL AREA RECEIVER	
	DP	DIRECTIONAL PASSIVE TAG DETECTOR	
	IRC	INFRARED CURTAIN	
	RFR	RF READER	
	RFM	RF READER MASTER	
	RFLR	RF LONG RANGE READER	
	ARL	ASSISTANCE REQUEST LED ANNUNCIATOR WITH SOUNDER	
	ADO	AUTO DOOR OPERATOR	
	CR	CARD READER	
	DCR	DOOR CONTROLLER	
	EP	ELECTRIFIED PANIC HARDWARE	
	GB	GLASS BREAK DETECTOR	
	ID	INTRUSION DETECTION DEVICE	
	KEY	KEY SWITCH	
	MS	MOTION SENSOR	
	PNL	PANEL / CONTROLLER	
	PTX	POWER TRANSFER	
	REX	REQUEST TO EXIT DEVICE	
	SEN	ALARM SENSOR	
	SPS	SECURITY SYSTEM POWER SUPPLY	
	SVR	SERVER	
	WKS	SECURITY WORKSTATION	
		CCTV CAMERA, WALL-MOUNTED	
		CCTV CAMERA, CEILING-MOUNTED	
	RFER	RF ETHERNET READER	
	DL	LED DOME LIGHT WITH SOUNDER	
	PL	PUSH TO LOCK	

MISCELLANEOUS DEVICES

	JB	JUNCTION BOX, WALL MOUNTED	
	JB	JUNCTION BOX, CEILING MOUNTED	
	C x	CONTACTOR, SUBSCRIPT 'X' INDICATES UNIQUE IDENTIFIER	
	R	CONTROL RELAY & REQUIRED INPUT/OUTPUT MODULE	

DEMOLITION

< R >	EXISTING TO BE REMOVED		DEMOLITION CONDUIT
< RL >	EXISTING TO BE RELOCATED		DEMOLITION EQUIPMENT
< EX >	EXISTING TO REMAIN		EXISTING TO REMAIN CONDUIT
< NL >	EXISTING - NEW LOCATION		EXISTING TO REMAIN EQUIPMENT

ABBREVIATIONS

A	ANALOG	MCB	MAIN CIRCUIT BREAKER
AFCI	ARC FAULT CIRCUIT INTERRUPTOR	MCC	MOTOR CONTROL CENTER
AFF	ABOVE FINISHED FLOOR	MD	MOTORIZED DAMPER
ATS	AUTOMATIC TRANSFER SWITCH	MH	MOUNTING HEIGHT
CK	CLOCK HANGER	NC	NORMALLY CLOSED
CL	CEILING MOUNTED	NO	NORMALLY OPEN
EMT	ELECTRICAL METALLIC TUBING	OC	OVER THE COUNTER
EP	EXPLOSION PROOF	PTZ	PAN, TILT, ZOOM
F	FURNITURE OR MILL/WORK MOUNTED	ST	SHUNT TRIP
FL	FLOOR MOUNTED	TP	TAMPER PROOF
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TV	OUTLET AT TV HEIGHT. COORDINATE ON SITE.
GFI	GROUND FAULT INTERRUPTER	WP	WEATHER PROOF
USB	USB TYPE OF RECEPTACLE		

DRAWING LIST

E-01	ELECTRICAL LEGEND, GENERAL NOTES, AND DRAWING LIST
E-02	ELECTRICAL DEMOLITION PLAN
E-03	POWER & SYSTEM SECOND FLOOR LAYOUT- NEW WORK
E-04	ELECTRICAL ROOF LAYOUT- NEW WORK
E-05	LIGHTING SECOND FLOOR LAYOUT- NEW WORK
E-06	ELECTRICAL SCHEDULE AND DIAGRAM
E-07	ELECTRICAL DETAILS
E-08	ELECTRICAL SPECIFICATIONS
E-09	COMMUNICATIONS SPECIFICATIONS
E-10	COMMUNICATIONS SPECIFICATIONS
E-11	SECURITY SPECIFICATIONS
E-12	SECURITY SPECIFICATIONS

GENERAL NOTES

- ALL DRAWINGS ARE DIAGRAMMATIC ONLY. THE ARRANGEMENTS OF EQUIPMENT SHOWN ARE APPROXIMATIONS ONLY AND MAY BE ALTERED BY THE ENGINEERS TO MEET THE REQUIREMENTS OF THE PROJECT. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE CONSULTANTS, AND MECHANICAL DRAWINGS FOR LOCATION OF ALL DEVICES. ALL EXISTING ELECTRICAL SYSTEMS, INCLUDING BUT NOT LIMITED TO EQUIPMENT DEVICES AND CONNECTIONS, SHALL REMAIN UNLESS SPECIFICALLY NOTED TO BE REMOVED. DURING CONSTRUCTION IF REQUIRED/IMPACTED BY OTHER WORKS, CONTRACTOR TO TEMPORARILY REMOVE/RELOCATE ELECTRICAL SYSTEMS AND/OR PROVIDE TEMPORARY CONNECTIONS ON SITE TO ALLOW CONSTRUCTION OF OTHERS WORKS. EXISTING ELECTRICAL SYSTEM ARE TO REMAIN FUNCTIONAL DURING THE CONSTRUCTION.
- MAINTAIN EXISTING FIRE ALARM, EXIT SIGNS AND EMERGENCY LIGHTS IN FULL OPERATION DURING THE ENTIRE CONSTRUCTION STAGE. WHERE DISRUPTION TO LIFE SAFETY SYSTEM ARE REQUIRED, PROVIDE CONTINUOUS MONITORING DURING SHUT DOWN PERIOD AND ENSURE THAT ALL SYSTEMS ARE REACTIVATED PRIOR TO LEAVING THE SITE AT THE END OF EACH WORKING DAY.
- ALL OPENINGS, IF APPLICABLE, SHALL BE SEALED WITH APPROVED FIRE STOP MATERIAL. ANY FIREPROOFING MATERIAL REMOVED WILL BE REPLACED WITH A SUITABLE AND APPROVED FIREPROOFING MATERIAL AND SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS TO APPLICABLE BUILDING AND FIRE CODES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REFINISHING OF DAMAGED BUILDING AREAS AND FINISHES AFFECTED BY THE WORK AS OUTLINED UNDER SCOPE OF WORK OF THIS PROJECT. SHOULD ANY EXISTING SYSTEM BE DAMAGED, MAKE FULL REPAIR/REPLACES WITHOUT EXTRA COST, AND TO THE SATISFACTION OF CONSULTANT.
- CONTRACTOR TO PROVIDE WRITTEN NOTICE TO OWNER FOR ANY SHUTDOWN REQUIRED.
- CONTRACTOR IS RESPONSIBLE FOR STORAGE AND PROTECTION OF ALL EXISTING ITEMS WHICH WILL BE RELOCATED/REUSED IN THIS PROJECT.
- EXPOSED ELECTRICAL CORDS OUTSIDE THE LEASED PREMISES SHALL NOT BE PERMITTED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL THE WORK WITH ALL OTHER TRADES, CONSULTANTS, AND THE OWNER. ALL WORK SHALL BE SCHEDULED AND CARRIED OUT BY THE CONTRACTOR IN A MANNER TO ENSURE CONTINUED AND NON-INTERRUPTED OPERATION OF EXISTING FACILITY.
- CONTRACTOR SHALL IDENTIFY AND LABEL CLEARLY ALL CIRCUITS, WIRING, SERVICES, JUNCTION BOXES, PULLBOXES, DEVICES AND EQUIPMENT INSTALLED AND CONNECTED UNDER THE SCOPE OF WORK OF THIS PROJECT. IDENTIFICATION SHALL BE AS PER OWNER'S REQUIREMENTS AND ALL MARKINGS SHALL BE OF NON-ERASEABLE LAMACOID TYPE. COORDINATE ALL LABELING WITH THE OWNER AND CONSULTANT.
- CONTRACTOR TO PAY FOR AND OBTAIN ALL REQUIRED PERMITS, FEES, LICENSES, CERTIFICATES OF INSPECTION ETC IF REQUIRED.
- CONTRACTOR TO REPORT BACK TO THE ENGINEER AND OWNER ON ANY ELECTRICAL SYSTEM FAILURES THAT OCCUR DURING THE CONSTRUCTION PHASE.
- PHASING AND SCHEDULING OF THE WORK IS REQUIRED IN ORDER TO MAINTAIN EXISTING BUILDING OPERATIONS. INCLUDE COSTS FOR "OFF-HOURS" WORK.
- FOR ALL LUMINAIRES THAT EXCEED 150V SHOWN, SUPPLY AND INSTALL NEW LUMINAIRES DISCONNECT THAT COMPLY WITH RECOMMENDATION SPECIFIED IN CANADIAN ELECTRICAL CODE, RULE 30-308(4). ALL NEW RELOCATED FIXTURES (THAT EXCEED 150V) SHALL BE MARKED IN A CONSPICUOUS LEGIBLE AND PERMANENT MANNER ADJACENT TO THE CONNECTING MEANS, IDENTIFYING THE SPECIFIC PURPOSES.
- NEW AND EXISTING ELECTRICAL WIRING AND CABLES EXPOSED WITHIN THE CEILING SPACES SHALL CONFORM TO THE PLENUM REQUIREMENTS OF ONTARIO BUILDING CODE SENTENCE 3.6.4.3. (1).

CLIENT

MUNICIPALITY OF CASSELMAN

PROJECT NORTH

3	ISSUED FOR REVISED 99% REVIEW	2025-02-19
2	ISSUED FOR 99% COORDINATION	2023-06-13
1	ISSUED FOR 66% COORDINATION	2023-05-12
ISSUE	DESCRIPTION	DATE

IT IS THE RESPONSIBILITY OF THE APPROPRIATE CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS ON SITE AND PROMPTLY REPORT ALL ERRORS AND/OR OMISSIONS TO THE CONSULTANT BEFORE WORK COMMENCES.

ALL WORK IS TO FOLLOW THE OBC 2012 AND ANY OTHER APPLICABLE CODES AND REGULATIONS.

DO NOT SCALE DRAWINGS.

PROFESSIONAL STAMP

EXP Services Inc.
T: 613.688.1899
100 - 2650 Queensview Drive
Ottawa, ON K2B 8H6
Canada

www.exp.com

• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

PROJECT

1 INDUSTRIEL STREET
OFFICE FIT-UP

DRAWING

ELECTRICAL LEGEND,
GENERAL NOTES, AND
DRAWING LIST

PROJECT No:	MRK-23002008-A0	REVISION:	
DRAWN:	KL	DATE:	MAY 2023
APPROVED:	DL	SCALE:	AS SHOWN
DRAWING No:			



DEMO POWER:

- THIS DEMOLITION DRAWING IS DIAGRAMMATIC AND MAY NOT REPRESENT ALL OF THE DEVICES TO BE REMOVED. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO ENSURE THE COMPLETE REMOVAL/RELOCATION OF POWER AND SYSTEMS IS COMPLETE IN THE AREAS OF SCOPE OF WORK. ALL ELECTRICAL ITEMS IN THIS AREA/ROOM NOT SHOWN WITHIN SCOPE OF WORK AREA ARE TO REMAIN.
- DEMOLISH EXISTING LIGHT FIXTURES NOTED ON THE DRAWING IN THE DEMOLITION AREA C/W CONTROLS CONDUIT, WIRING, JUNCTION BOXES, ETC. BACK TO SOURCE. WHERE CIRCUIT AND/OR CONTROLS ARE BEING UTILIZED BY OTHER ELEMENTS, THE CIRCUIT IS TO BE REMOVED BACK TO NEAREST JUNCTION BOX.
- DURING CONSTRUCTION ENSURE ALL LUMINAIRES IN AND/OR OUT OF SCOPE OF WORK ARE FREE OF DUST AND DEBRIS. CONTRACTOR TO CLEAN LENSES AFFECTED BY CONSTRUCTION DUST AND/OR DEBRIS.
- ALL EXISTING FIXTURES TO BE REMOVED ARE TO BE DISPOSED OF AND IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- ALL EXISTING POWER SUCH THAT SURROUNDING AREAS REMAIN OPERATIONAL AND ARE NOT AFFECTED AS A RESULT OF BUILDING DEMOLITION.
- ALL EXISTING DEVICES TO REMAIN ARE TO BE PROTECTED FROM DUST DEBRIS DURING CONSTRUCTION.
- WHERE EXISTING CIRCUITS ON PANELS ARE NOT AFFECTED, THOSE CIRCUITS WILL BE INCLUDED IN THE NEW PANEL DIRECTORIES WHERE PANELS HAVE BEEN AFFECTED BY THIS PROJECT.
- EXISTING BASE BUILDING ACCESS CONTROL SYSTEM TO REMAIN OPERATIONAL DURING THE WORK. COORDINATE ALL SHUTDOWNS AS REQUIRED WITH OWNER.
- ANY EXISTING CONDUITS NOT BEING REUSED DURING THE NEW CONSTRUCTION TO BE REMOVED.

CLIENT

MUNICIPALITY OF CASSELMAN

PROJECT NORTH

3	ISSUED FOR REVISED 99% REVIEW	2025-02-19
2	ISSUED FOR 99% COORDINATION	2023-06-13
1	ISSUED FOR 66% COORDINATION	2023-05-12
ISSUE	DESCRIPTION	DATE

IT IS THE RESPONSIBILITY OF THE APPROPRIATE CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS ON SITE AND PROMPTLY REPORT ALL ERRORS AND/OR OMISSIONS TO THE CONSULTANT BEFORE WORK COMMENCES.

ALL WORK IS TO FOLLOW THE OBC 2012 AND ANY OTHER APPLICABLE CODES AND REGULATIONS.

DO NOT SCALE DRAWINGS.

PROFESSIONAL STAMP

EXP Services Inc.

T: 613.688.1899

100 – 2650 Queensview Drive

Ottawa, ON K2B 8H6

Canada

www.exp.com

• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •

• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

PROJECT

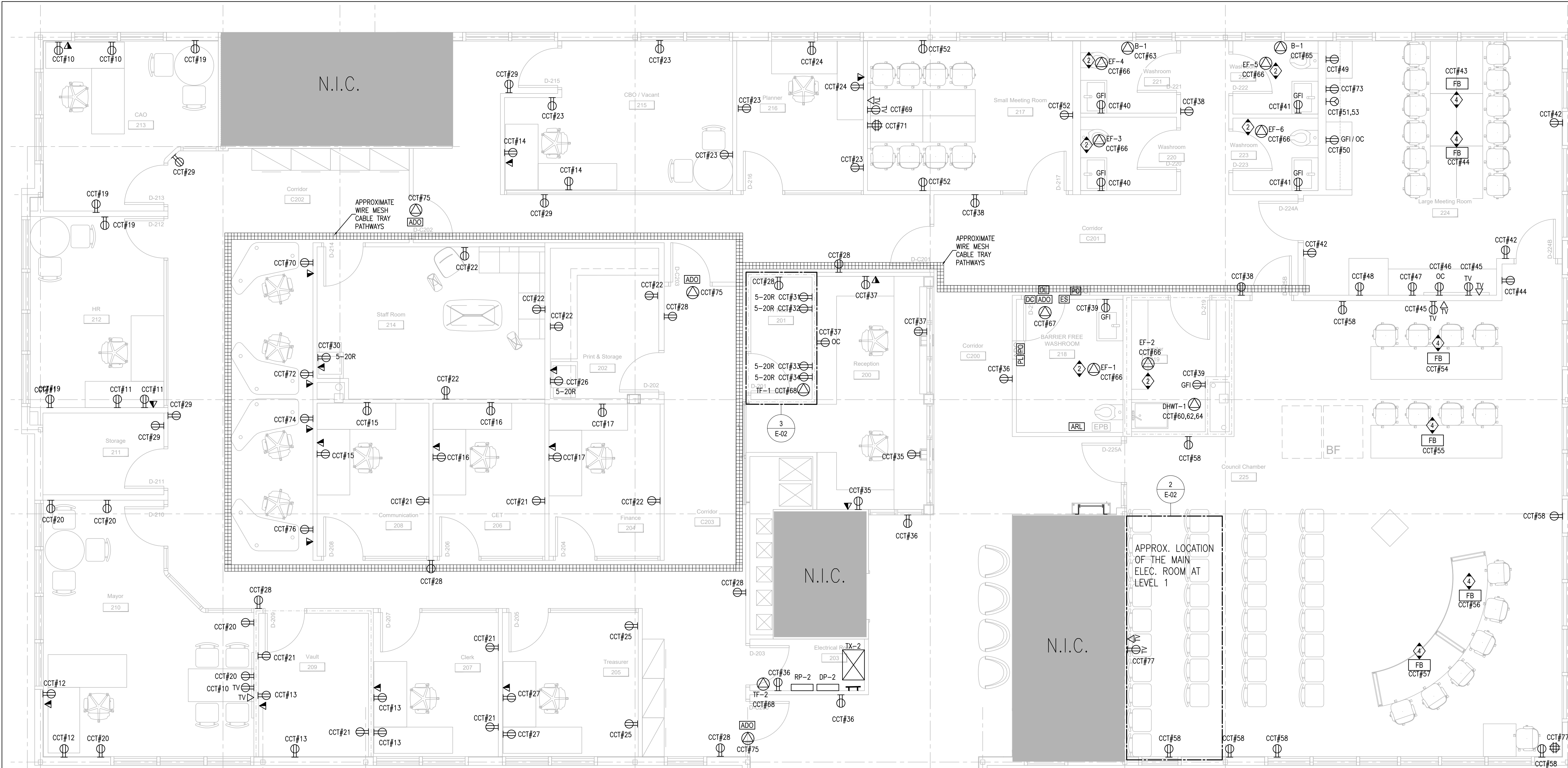
1 INDUSTRIEL STREET
OFFICE FIT-UP

DRAWING

ELECTRICAL
DEMOLITION PLAN

PROJECT No:	MRK-23002008-A0	REVISION:	
DRAWN:	KL	DATE:	MAY 2023
APPROVED:	DL	SCALE:	AS SHOWN

DRAWING No: E-02



1 POWER & SYSTEMS SECOND FLOOR LAYOUT- NEW WORK
E-03 SCALE: 1/4"=1'-0"

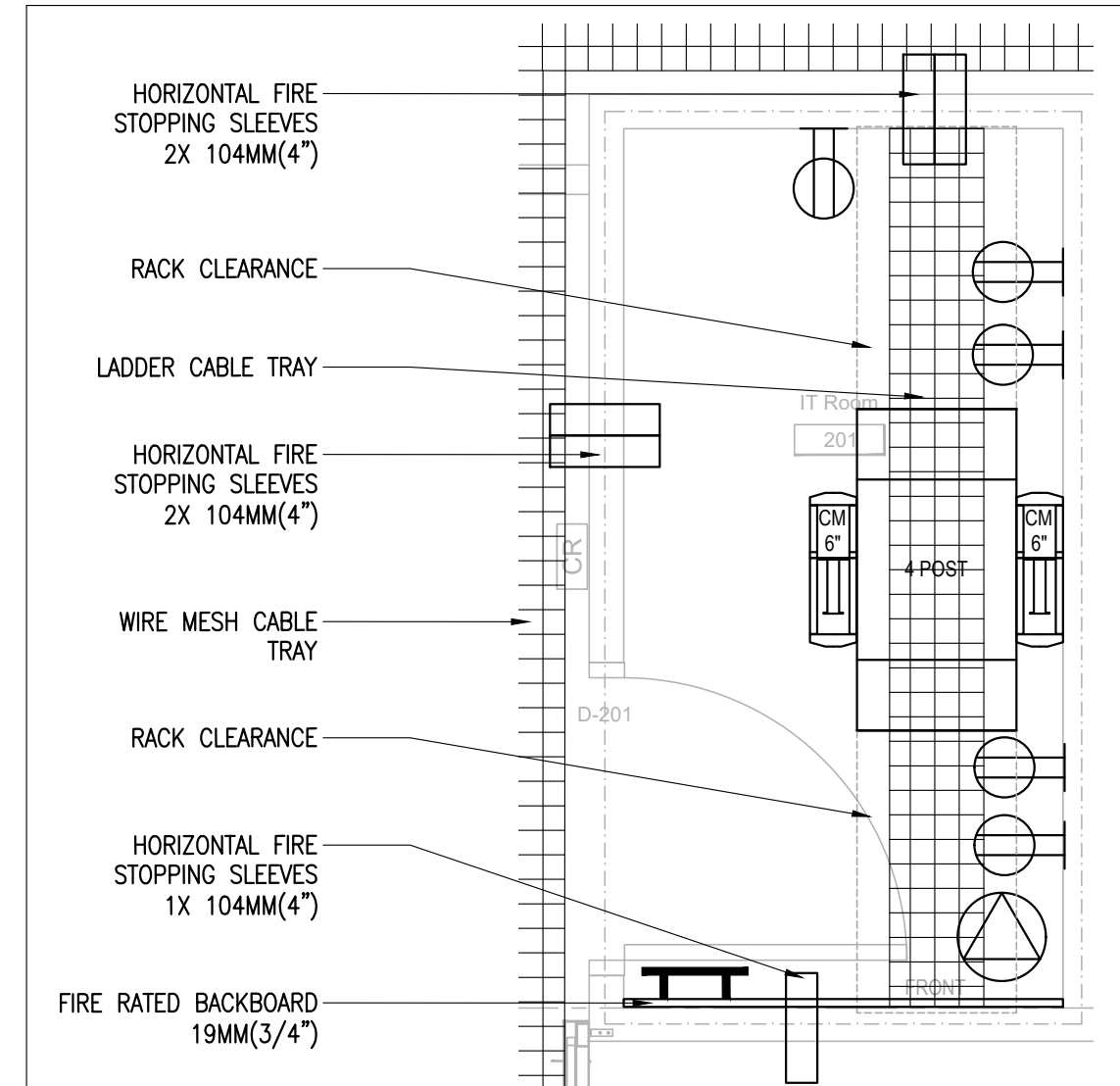
UPDATED ARCH. DRAWING AS PER FEB 13 2025

GENERAL NOTES:

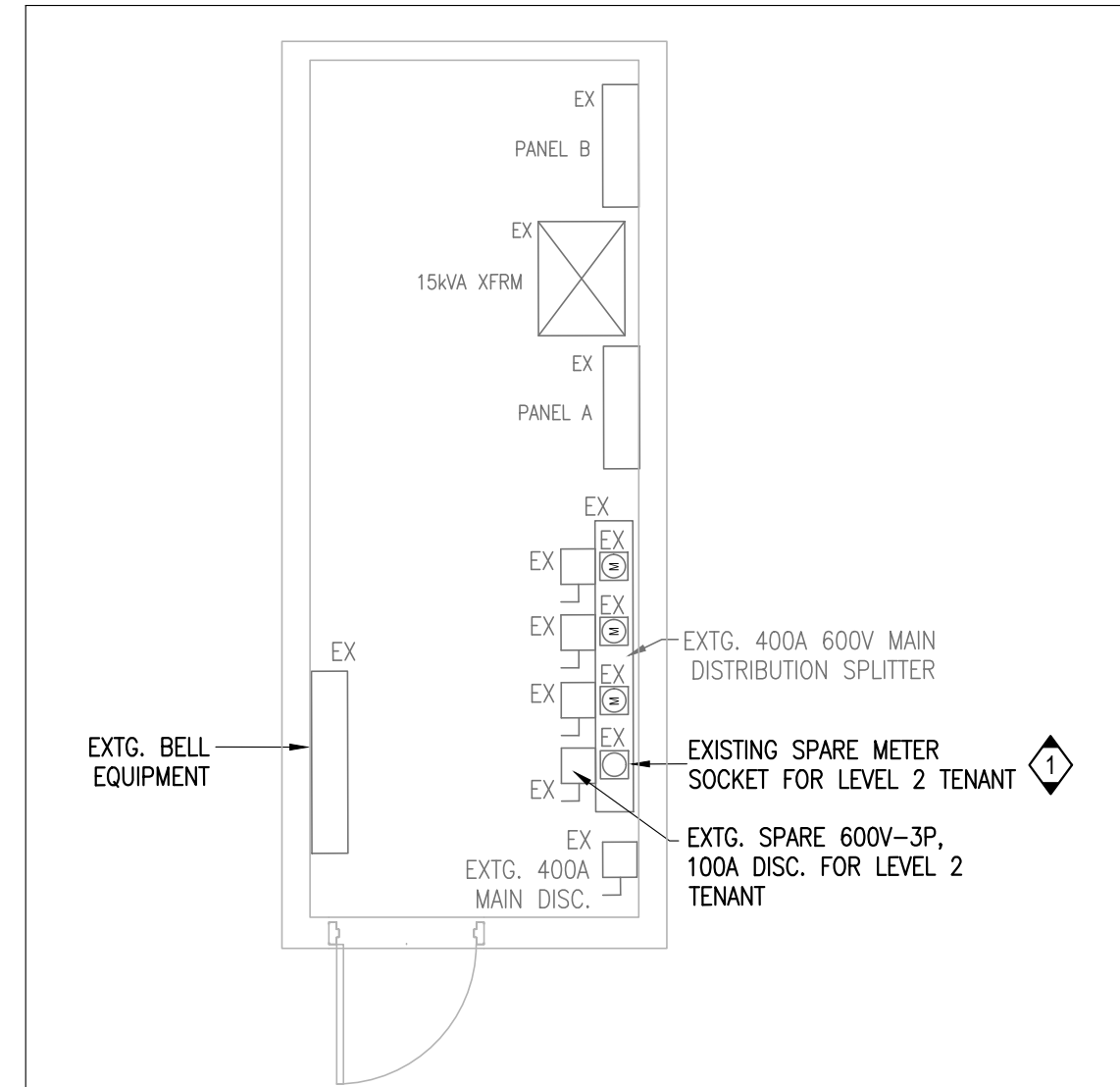
- ELECTRICAL WORK OF THE MAIN FEEDER INSTALLATION AND WORK IN COMMON/PUBLIC AREA WHICH REQUIRE ANY DISCONNECTION, ETC. MAY HAVE TO BE DONE AFTER HOURS ON WEEKEND AND/OR AT OTHER TIMES SUITABLE FOR BUILDING OWNER AND TENANTS WITHIN THE BUILDING. INCLUDE IN PRICE SUBMITTAL PREMIUM TIME AND ALL ASSOCIATED COSTS TO PERFORM THE WORK.
- PLACEMENT OF ALL DEVICES SHALL BE ALIGNED AND STRATEGICALLY PLACED. VERIFY WITH ARCHITECT FOR EXACT MOUNTING LOCATIONS OF ALL ELECTRICAL DEVICES.
- PROVIDE A SEPARATE NEUTRAL INSULATED CONDUCTOR FOR EACH NEW CIRCUIT.
- 120V 20A DUPLEX RECEPTACLE (NEMA 5-20R ALTERNATE - 'T'-SLOT) RECEPTACLE SHALL BE FED FROM A 20A-1P BREAKER. #10 AWG. WIRE SHALL BE USED.
- ALL EXTRA LOW VOLTAGE WALL OUTLETS LOCATED WITHIN DRYWALL CEILING AREAS SHALL BE INSTALLED C/W CONDUIT ROUTED BACK TO ACCESSIBLE CEILING SPACE AREA. CEILING MOUNTED EXTRA LOW VOLTAGE OUTLETS DESIGNATED FOR SECURITY CAMERAS AND WIRELESS ACCESS POINTS LOCATED WITHIN DRYWALL CEILING AREAS, ARE TO BE INSTALLED C/W CONDUIT ROUTED BACK TO ACCESSIBLE CEILING SPACE AREA.
- COORDINATE EXACT COMMUNICATION J-HOOK PATHWAY ON SITE TO AVOID INTERFERENCES WITH LIGHTING FIXTURE, MECHANICAL DUCTING, AND STRUCTURAL BEAMS.
- IN EXPOSED CEILING AREAS, ALL CONDUITS SHALL RUN PARALLEL AND PERPENDICULAR TO BUILDING LINES; ALL COMMUNICATION CABLEING TO BE CONCEALED IN METAL CONDUIT READY TO ACCEPT PAINT FINISH.
- INDICATED CIRCUITS ON THIS SHEET TO BE CIRCUITED BACK TO PANEL 'RP-2' UNLESS NOTED OTHERWISE.

KEY NOTES:

- EXISTING SPARE METER SOCKET FOR SECOND FLOOR.
- WASHROOM AND JANITOR ROOM EXHAUST FAN SHALL BE TIED INTO THE LIGHTING SWITCH WITHIN THE ROOM.
- RECEPTACLE FOR KITCHEN HOOD AT HIGH LEVEL. COORDINATION HEIGHT AND CONNECTION ON SITE.
- INCLUDE FOR CORE DRILLS AND X-RAY, ALL ASSOCIATED JUNCTION BOX(ES) AND CONDUITS FROM FLOOR MONUMENT/FEED LOCATION IN CEILING SPACE OF FLOOR BELOW BACK TO RESPECTIVE ELECTRICAL ROOM (FOR POWER) AND IT ROOM (FOR COMMUNICATIONS CABLES). COORDINATE WITH OWNER'S AV VENDOR FOR ADDITIONAL CONDUIT REQUIREMENTS FOR A/V SYSTEM AS IDENTIFIED AT FLOOR MONUMENT LOCATION. INCLUDE FOR PREMIUM TIME IN TENDER SUBMITTAL TO CARRY-OUT THIS SCOPE OF WORK. WORK SHALL BE DONE AFTER HOURS, ON WEEKENDS AND/OR AT OTHER TIME THAT SUITABLE TO THE TENANT ON FLOOR BELOW. COORDINATE AND SCHEDULE WITH BUILDING OWNER AND OBTAIN APPROVAL PRIOR TO PROCEEDING WITH THIS SCOPE OF WORK. BUILDING OWNER SHALL BE GIVEN AT LEAST 72 HOURS NOTICE PRIOR TO X-RAYING. COORDINATE EXACT FLOOR MONUMENT LOCATION/DIMENSIONS WITH FURNITURE SUPPLIER PRIOR TO DRILLING.



3 ENLARGED MAIN IT ROOM LAYOUT
E-03 N.T.S.



2 ENLARGED MAIN ELECTRICAL ROOM LAYOUT
E-03 N.T.S.

MUNICIPALITY OF CASSELMAN

PROJECT NORTH

3	ISSUED FOR REVISED 99% REVIEW	2025-02-19
2	ISSUED FOR 99% COORDINATION	2023-06-13
1	ISSUED FOR 66% COORDINATION	2023-05-12
ISSUE	DESCRIPTION	DATE

IT IS THE RESPONSIBILITY OF THE APPROPRIATE CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS ON SITE AND PROMPTLY REPORT ALL ERRORS AND/OR OMISSIONS TO THE CONSULTANT BEFORE WORK COMMENCES.

ALL WORK IS TO FOLLOW THE OBC 2012 AND ANY OTHER APPLICABLE CODES AND REGULATIONS.

DO NOT SCALE DRAWINGS.

PROFESSIONAL STAMP

EXP Services Inc.

T: 613.688.1899
100 - 2650 Queensview Drive
Ottawa, ON K2B 8H6
Canada

www.exp.com

• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •

• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

PROJECT

1 INDUSTRIEL STREET
OFFICE FIT-UP

DRAWING

POWER & SYSTEMS
SECOND FLOOR LAYOUT
- NEW WORK

PROJECT No:	MRK-23002008-A0	REVISION:	
DRAWN:	KL	DATE:	MAY 2023
APPROVED:	DL	SCALE:	AS SHOWN
DRAWING No:	E-03		



1 ELECTRICAL ROOF LAYOUT– NEW WORK
E-04 SCALE: 1/4"=1'-0"

GENERAL NOTES:

- ELECTRICAL WORK OF THE MAIN FEEDER INSTALLATION AND WORK IN COMMON/PUBLIC AREA WHICH REQUIRE ANY DISCONNECTION, ETC. MAY HAVE TO BE DONE AFTER HOURS ON WEEKEND AND/OR AT OTHER TIMES SUITABLE FOR BUILDING OWNER AND TENANTS WITHIN THE BUILDING. INCLUDE IN PRICE SUBMITTAL PREMIUM TIME AND ALL ASSOCIATED COSTS TO PERFORM THE WORK.
- PROVIDE A SEPARATE NEUTRAL INSULATED CONDUCTOR FOR EACH NEW CIRCUIT.

CLIENT		
MUNICIPALITY OF CASSELMAN		
PROJECT NORTH		
3	ISSUED FOR REVISED 99% REVIEW	2025-02-19
2	ISSUED FOR 99% COORDINATION	2023-06-13
1	ISSUED FOR 66% COORDINATION	2023-05-12
ISSUE	DESCRIPTION	DATE

IT IS THE RESPONSIBILITY OF THE APPROPRIATE CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS ON SITE AND PROMPTLY REPORT ALL ERRORS AND/OR OMISSIONS TO THE CONSULTANT BEFORE WORK COMMENCES.

ALL WORK IS TO FOLLOW THE OBC 2012 AND ANY OTHER APPLICABLE CODES AND REGULATIONS.

DO NOT SCALE DRAWINGS.

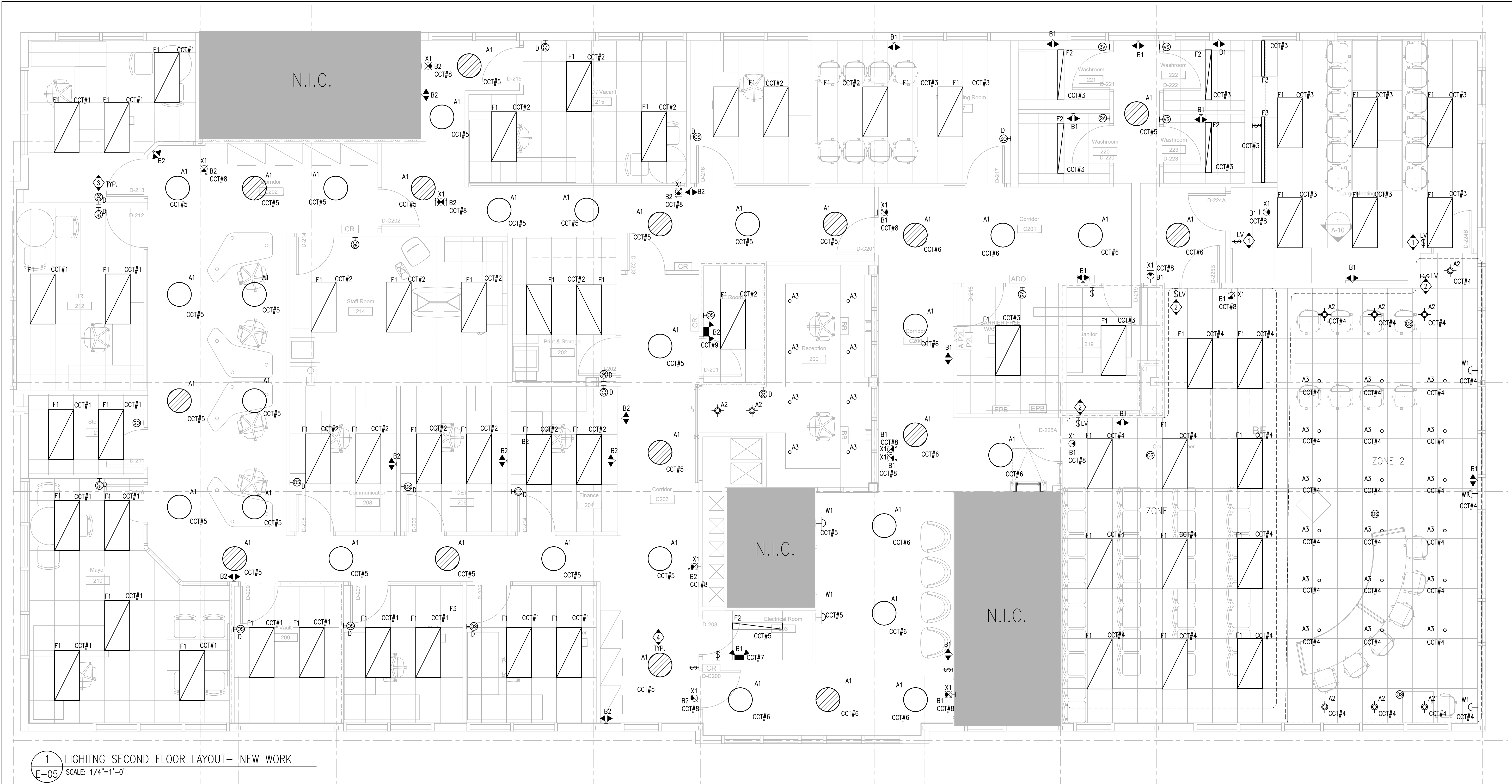
PROFESSIONAL STAMP	
--------------------	--

EXP Services Inc.
T: 613.688.1899
100 – 2650 Queensview Drive
Ottawa, ON K2B 8H6
Canada
www.exp.com



• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

PROJECT	
1 INDUSTRIEL STREET OFFICE FIT-UP	
DRAWING	
ELECTRICAL ROOF LAYOUT - NEW WORK	
PROJECT No: MRK-23002008-A0	REVISION:
DRAWN: KL	DATE: MAY 2023
APPROVED: DL	SCALE: AS SHOWN
DRAWING No:	E-04



1 LIGHTING SECOND FLOOR LAYOUT- NEW WORK
E-05 SCALE: 1/4"=1'-0"

GENERAL NOTES:

1. ELECTRICAL CONTRACTOR TO COORDINATE EXACT LOCATIONS OF LIGHT FIXTURE WITH ARCHITECT AND CLIENT PRIOR TO INSTALLATION.
2. RUN 2#10-1/2" C. FROM REMOTE EMERGENCY HEAD(S) OR DC BACK-UP FROM NEW EXIT SIGN TO EMERGENCY BATTERY UNIT. TOTAL LOAD SHOULD NOT EXCEED 36W ON EACH RUN. IF RUN EXCEED 94' #8 WIRE SHALL BE USED.
3. NEW EXIT SIGNS TO BE CONNECTED TO NEW EMERGENCY DC BATTERY BACK-UP UNIT AND DEDICATED 120V NON-RELAY/NON-SWITCHING CIRCUIT.
4. PLACEMENT OF ALL FIXTURES SHALL BE ALIGNED AND STRATEGICALLY PLACED. VERIFY WITH ARCHITECT FOR EXACT MOUNTING LOCATIONS.
5. PROVIDE A SEPARATE NEUTRAL INSULATED CONDUCTOR FOR EACH NEW CIRCUIT.
6. CIRCUIT NUMBERS SHOWN ARE DIAGRAMMATIC ONLY. CONNECT TO CIRCUITS MADE AVAILABLE BY THESE RENOVATIONS.
7. IN EXPOSED CEILING AREAS, ALL CONDUITS SHALL RUN PARALLEL AND PERPENDICULAR TO BUILDING LINES; ALL COMMUNICATION CABLEING TO BE CONCEALED IN METAL CONDUIT READY TO ACCEPT PAINT FINISH.
8. INDICATED CIRCUITS ON THIS SHEET TO BE CIRCUITED BACK TO PANEL 'RP-2' UNLESS NOTED OTHERWISE.

GENERAL NOTES:

- 1 CURRENT LIGHTING NXSW SERIES OR EQUIVALENT WALL MOUNTED EXTRA LOW VOLTAGE DIMMER SWITCH. ELECTRICAL CONTRACTOR SHALL PROVIDE THE ASSOCIATED CONTROL MODULE, ACCESSORIES AND COORDINATE WITH THE MANUFACTURER TO ENSURE THE SWITCH IS COMPATIBLE WITH THE LIGHT FIXTURES.
- 2 CURRENT LIGHTING NXSW SERIES OR EQUIVALENT WALL MOUNTED EXTRA LOW VOLTAGE DIMMER SWITCH COMPLETE WITH SCENE SELECTION. ELECTRICAL CONTRACTOR SHALL PROVIDE THE ASSOCIATED CONTROL MODULE, ACCESSORIES AND COORDINATE WITH THE MANUFACTURER TO ENSURE THE SWITCH IS COMPATIBLE WITH THE LIGHT FIXTURES.
- 3 LINE VOLTAGE WALL MOUNTED DUAL TECHNOLOGY DIMMING SENSOR SWITCH.
- 4 NIGHT LIGHT SHALL NOT BE CONTROLLER BY CORRIDOR SWITCH AND TO BE REMAIN ON ALL THE TIME.

CLIENT		
MUNICIPALITY OF CASSELMAN		
PROJECT NORTH		
3	ISSUED FOR REVISED 99% REVIEW	2025-02-19
2	ISSUED FOR 99% COORDINATION	2023-06-13
1	ISSUED FOR 66% COORDINATION	2023-05-12
ISSUE	DESCRIPTION	DATE

IT IS THE RESPONSIBILITY OF THE APPROPRIATE CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS ON SITE AND PROMPTLY REPORT ALL ERRORS AND/OR OMISSIONS TO THE CONSULTANT BEFORE WORK COMMENCES.

ALL WORK IS TO FOLLOW THE OBC 2012 AND ANY OTHER APPLICABLE CODES AND REGULATIONS.

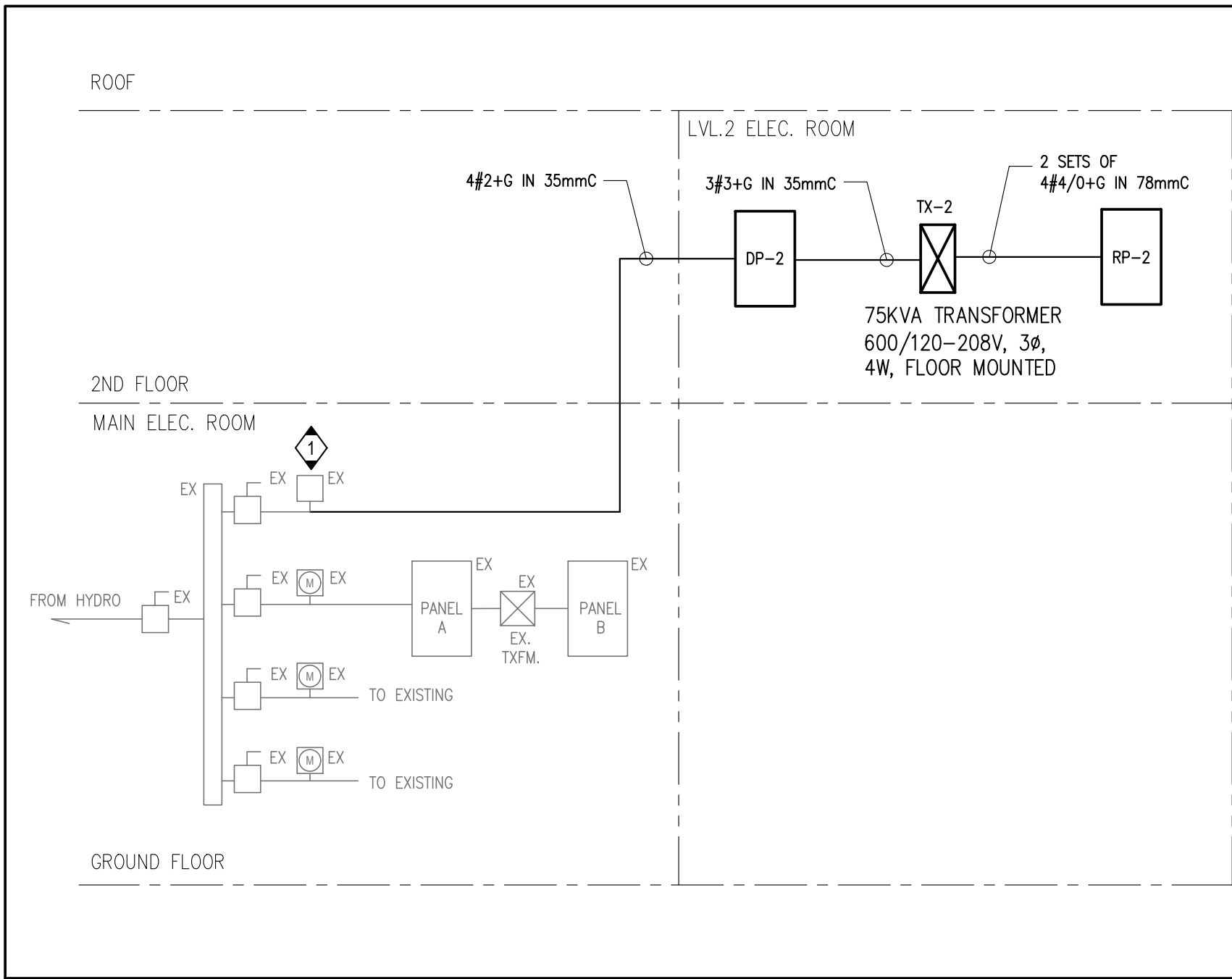
DO NOT SCALE DRAWINGS.

PROFESSIONAL STAMP	

EXP Services Inc.
T: 613.688.1899
100 – 2650 Queensview Drive
Ottawa, ON K2B 8H6
Canada
www.exp.com

• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

PROJECT	
1 INDUSTRIEL STREET OFFICE FIT-UP	
DRAWING	
LIGHTING SECOND FLOOR LAYOUT - NEW WORK	
PROJECT No:	MRK-23002008-A0
REVISION:	
DRAWN:	KL
DATE:	MAY 2023
APPROVED:	DL
SCALE:	AS SHOWN
DRAWING No:	E-05



GENERAL NOTES:

1. PROVIDE LAMICOID NAMEPLATE FOR NEW PANELS AND TRANSFORMER. PROVIDE CLEAR AND LEGIBLE WRITTEN DIRECTORY FOR EACH PANEL.
2. ELECTRICAL WORK OF THE MAIN FEEDER INSTALLATION AND WORK IN COMMON/PUBLIC AREA WHICH REQUIRE ANY DISCONNECTION, ETC. MAY HAVE TO BE DONE AFTER HOURS ON WEEKEND AND/OR AT OTHER TIMES SUITABLE FOR BUILDING OWNER AND TENANTS WITHIN THE BUILDING. INCLUDE IN PRICE SUBMITTAL PREMIUM TIME AND ALL ASSOCIATED COSTS TO PERFORM THE WORK.

KEY NOTES:

1. EXISTING SPARE METER SOCKET FOR SECOND FLOOR. METER SHALL BE COORDINATED AND PROVIDED BY HYDRO OTTAWA.

1 ELECTRICAL DISTRIBUTION RISER DIAGRAM
E-06 N.T.S.

LUMINAIRE SCHEDULE				
TYPE	DESCRIPTION	PART NO.	MANUFACTURER	NOTES
F1	2X4 LED TROFFER	CPX 2X4 4000LM 35K M2 MW	LITHONIA	
F2	4'X4' LED TROFFER	LSIX 4FT 3000LM 80CRI 35K FFR SWL MIN10 ZT MVOLT MW	LITHONIA	
F3	LED TAPE	6020-FL-COB-3.1W24V-35K (LED tape) + 6100-AP-SM-1708 (aluminum extrusion + frosted lens) + 5030-PSU-60W24V-TRI-DIM-JB-CL2 (dimnable power supply)	PRISM	
A1	17" CEILING PENDANT	4275-17-LED.REG-35K-90-120V-DV-C60-RC1-BLKE-BLK-WH	EUREKA	
A2	4" DOWNLIGHT	JPD24 DC AL010 SWW5WD 90CRI JPDZRMJBX MVOLT ZT10 WWH	JUNO	
A3	3' PENDANT	4048-10-LED-35-80-120V-DV-ME-FRO-C60-RC2-WHE-WHE-WHE	EUREKA	
L1	ACOUSTIC SUSPENDED LINEAR PENDANT	LX-BL-M-H1-S-LG-35-UNV-RD-LG	MVP	
L2	ACOUSTIC SUSPENDED LINEAR PENDANT	LX-BL-M-H2-S-LB-35-UNV-RD-LB	MVP	
L3	ACOUSTIC SUSPENDED LINEAR PENDANT	LX-BL-M-H0-S-LG-35-UNV-RD-LG	MVP	
W1	WALL SCONCE	1125-BL-H6-40K	MVP	
X1	STEEL PICTOGRAM EXIT SIGN UNIVERSAL FACE	LS3WU STEEL PICTOGRAM EXIT SIGN UNIV	LUMACELL	
	12V STEEL EMERG. BATTERY UNIT C/W 4W MR16-LED	RG12S1442LD7	LUMACELL	
	PLASTIC EMERG. REMOTE HEAD DBL 12V4W-LED WS	MQM2LD7	LUMACELL	
NOTES: 1. ALL FINISHES, FLANGE AND PLASTER COLOURS TO BE CONFIRMED WITH ARCHITECT/INTERIOR DESIGNER PRIOR TO ORDERING LUMINAIRES. 2. CONTRACTOR TO PROVIDE SUITABLE MOUNTING ACCESSORIES AND HARDWARE ACCORDINGLY TO CEILING FINISHES. 3. PROVIDE SUITABLE STEP-DOWN TRANSFORMER FOR ANY LOW VOLTAGE LIGHTING AS REQUIRED.				

		PANEL DESIGNATION: DP-2				PROJECT NAME: MUNICIPALITY OF CASSELMAN OFFICE FIT-UP			
MAIN BUS: 100A	MAIN BREAKER: 100A	VOLTAGE: 347/600V, 3φ, 4W, 25kA				SURFACE MOUNTED. NEW PANEL			
LOAD DESCRIPTION	BRKR SIZE	CCT. No.	PHASE			CCT. No.	BRKR SIZE	LOAD DESCRIPTION	
			A	B	C				
TRANSFORMER TX-2	90A 3P	1	●			2	20A	RTU-1	
		3		●		4			
		5			●	6	3P		
		7	●			8	25A		
		9		●		10	RTU-2		
		11			●	12	3P		
		13	●			14			
		15		●		16			
		17			●	18			
		19	●			20			
		21		●		22			
		23			●	24			
		25	●			26			
		27		●		28			
		29			●	30			
		31	●			32			
		33		●		34			
		35			●	36			
		37	●			38			
		39		●		40			
		41			●	42			

		PANEL DESIGNATION: RP-2				PROJECT NAME: MUNICIPALITY OF CASSELMAN OFFICE FIT-UP			
MAIN BUS: 400A	MAIN BREAKER: 250A	VOLTAGE: 120/208V, 3φ, 4W, 10kA				SURFACE MOUNTED. NEW PANEL			
LOAD DESCRIPTION	BRKR SIZE	CCT. No.	PHASE			CCT. No.	BRKR SIZE	LOAD DESCRIPTION	
			A	B	C				
OFFICE LIGHTS	20A	1	●			2	20A	OFFICE LIGHTS	
OFFICE LIGHTS	20A	3		●		4	20A	OFFICE LIGHTS	
CORRIDOR LIGHTS	20A	5			●	6	20A	CORRIDOR LIGHTS	
BATTERY UNIT	20A	7	●			8	20A	EXIT SIGNS	
BATTERY UNIT	20A	9		●		10	15A	OFFICE RECEPTACLE	
OFFICE RECEPTACLE	15A	11			●	12	15A	OFFICE RECEPTACLE	
OFFICE RECEPTACLE	15A	13	●			14	15A	OFFICE RECEPTACLE	
OFFICE RECEPTACLE	15A	15		●		16	15A	OFFICE RECEPTACLE	
OFFICE RECEPTACLE	15A	17			●	18	15A	OFFICE RECEPTACLE	
OFFICE RECEPTACLE	15A	19	●			20	15A	OFFICE RECEPTACLE	
OFFICE RECEPTACLE	15A	21		●		22	15A	OFFICE RECEPTACLE	
OFFICE RECEPTACLE	15A	23			●	24	15A	PRINTER ROOM REC.	
TREASURE ROOM REC.	15A	25	●			26	20A	PRINTER REC.	
TREASURE ROOM REC.	15A	27		●		28	15A	CORRIDOR REC.	
CORRIDOR REC.	15A	29			●	30	20A	PRINTER REC.	
IT ROOM REC.	20A	31	●			32	20A	IT ROOM REC.	
IT ROOM REC.	20A	33		●		34	20A	IT ROOM REC.	
RECEPTION REC.	15A	35			●	36	15A	CORRIDOR REC.	
RECEPTION REC.	15A	37	●			38	15A	CORRIDOR REC.	
WASHROOM REC.	15A	39		●		40	15A	WASHROOM REC.	
WASHROOM REC.	15A	41			●	42	15A	LARGE MEETING ROOM REC.	
LARGE MEETING ROOM REC.	20A	43	●			44	20A	LARGE MEETING ROOM REC.	
LARGE MEETING ROOM TV REC.	15A	45		●		46	15A	LARGE MEETING ROOM COUNTER REC.	
LARGE MEETING ROOM FRIDGE REC.	15A	47			●	48	15A	LARGE MEETING ROOM FRIDGE REC.	
LARGE MEETING ROOM REC.	15A	49	●			50	15A	LARGE MEETING ROOM COUNTER REC.	
LARGE MEETING RANGE REC.	40A 2P	51		●		52	15A	SMALL MEETING ROOM REC.	
COUNCIL CHAMBER REC.	20A	55	●			54	15A	COUNCIL CHAMBER REC.	
COUNCIL CHAMBER REC.	20A	57		●		56	20A	COUNCIL CHAMBER REC.	
ROOF REC.	20A	59			●	58	15A	COUNCIL CHAMBER REC.	
ROOF REC.	20A	61	●			60	20A	DHW-1	
BASEBOARD HEATER	15A	63		●		62	3P		
BASEBOARD HEATER	15A	65			●	64			
UNIV. WASHROOM DOOR CONTROLLER	15A	67	●			66	15A		EXHAUST FAN
SMALL MEETING ROOM TV REC.	15A	69		●		68	15A	TRANSFER FAN	
SMALL MEETING ROOM REC.	20A	71			●	70	15A	WORK STATION REC.	
KITCHEN HOOD REC.	15A	73	●			72	15A	WORK STATION REC.	
ADO	15A	75		●		74	15A	WORK STATION REC.	
TV REC.	15A	77			●	76	15A	WORK STATION REC.	
SPACE		79	●			78	20A	SPARE	
SPACE		81		●		80	20A	SPARE	
SPACE		83			●	82	20A	SPARE	
						84	20A	SPARE	

CLIENT

MUNICIPALITY OF CASSELMAN

PROJECT NORTH

3	ISSUED FOR REVISED 99% REVIEW	2025-02-19
2	ISSUED FOR 99% COORDINATION	2023-06-13
1	ISSUED FOR 66% COORDINATION	2023-05-12
ISSUE	DESCRIPTION	DATE

IT IS THE RESPONSIBILITY OF THE APPROPRIATE CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS ON SITE AND PROMPTLY REPORT ALL ERRORS AND/OR OMISSIONS TO THE CONSULTANT BEFORE WORK COMMENCES.

ALL WORK IS TO FOLLOW THE OBC 2012 AND ANY OTHER APPLICABLE CODES AND REGULATIONS.

DO NOT SCALE DRAWINGS.

PROFESSIONAL STAMP

EXP Services Inc.
T: 613.688.1899
100 - 2650 Queensview Drive
Ottawa, ON K2B 8H6
Canada
www.exp.com

• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

PROJECT

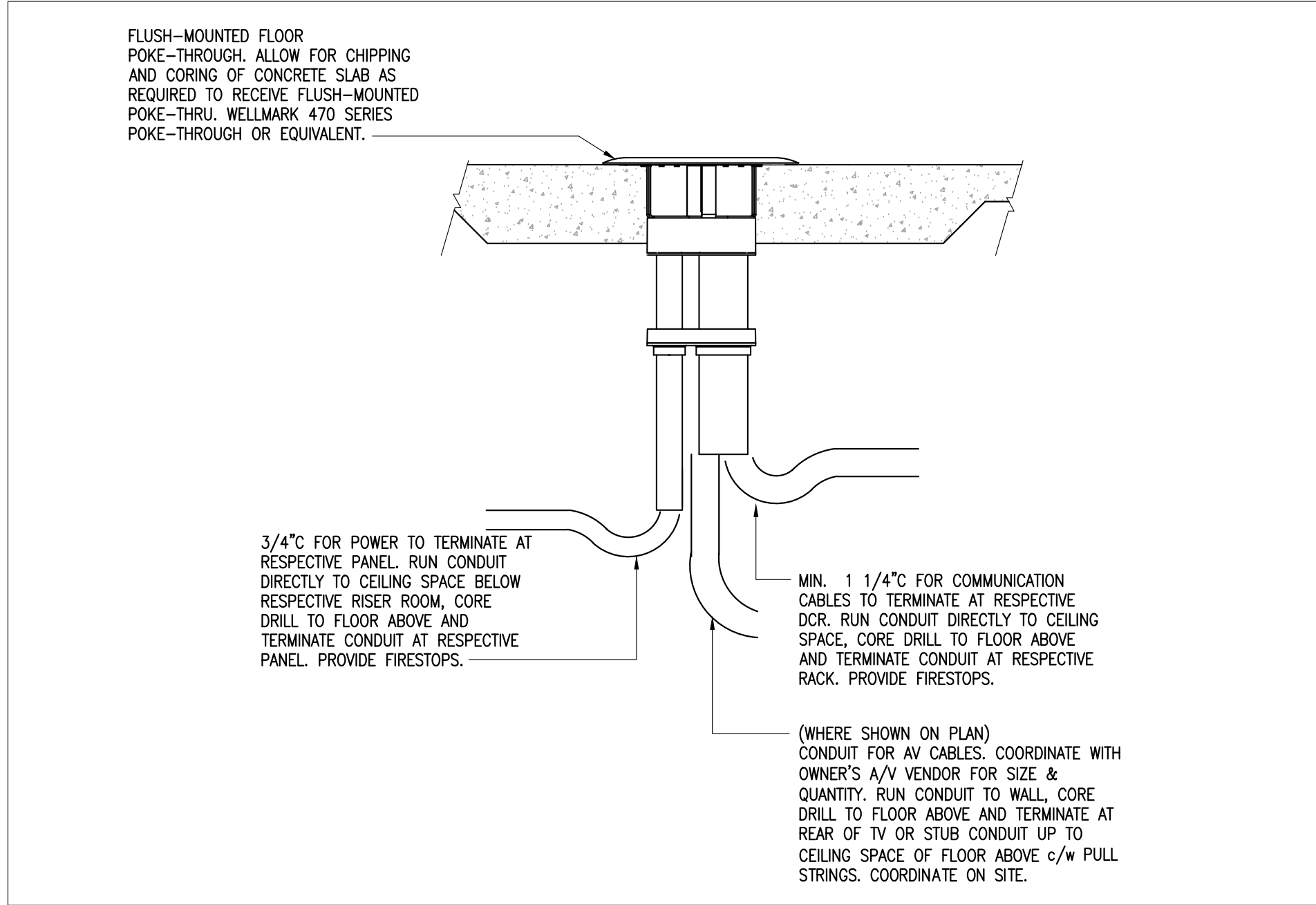
1 INDUSTRIEL STREET
OFFICE FIT-UP


DRAWING

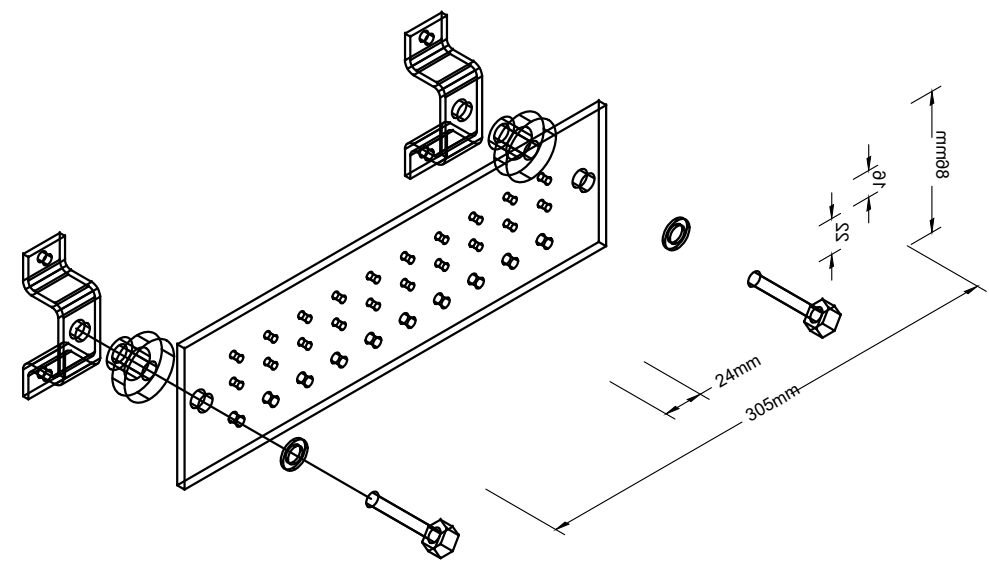
ELECTRICAL SCHEDULE
AND DIAGRAM

PROJECT No:	MRK-23002008-A0	REVISION:	
DRAWN:	KL	DATE:	MAY 2023
APPROVED:	DL	SCALE:	AS SHOWN
DRAWING No:			

E-06

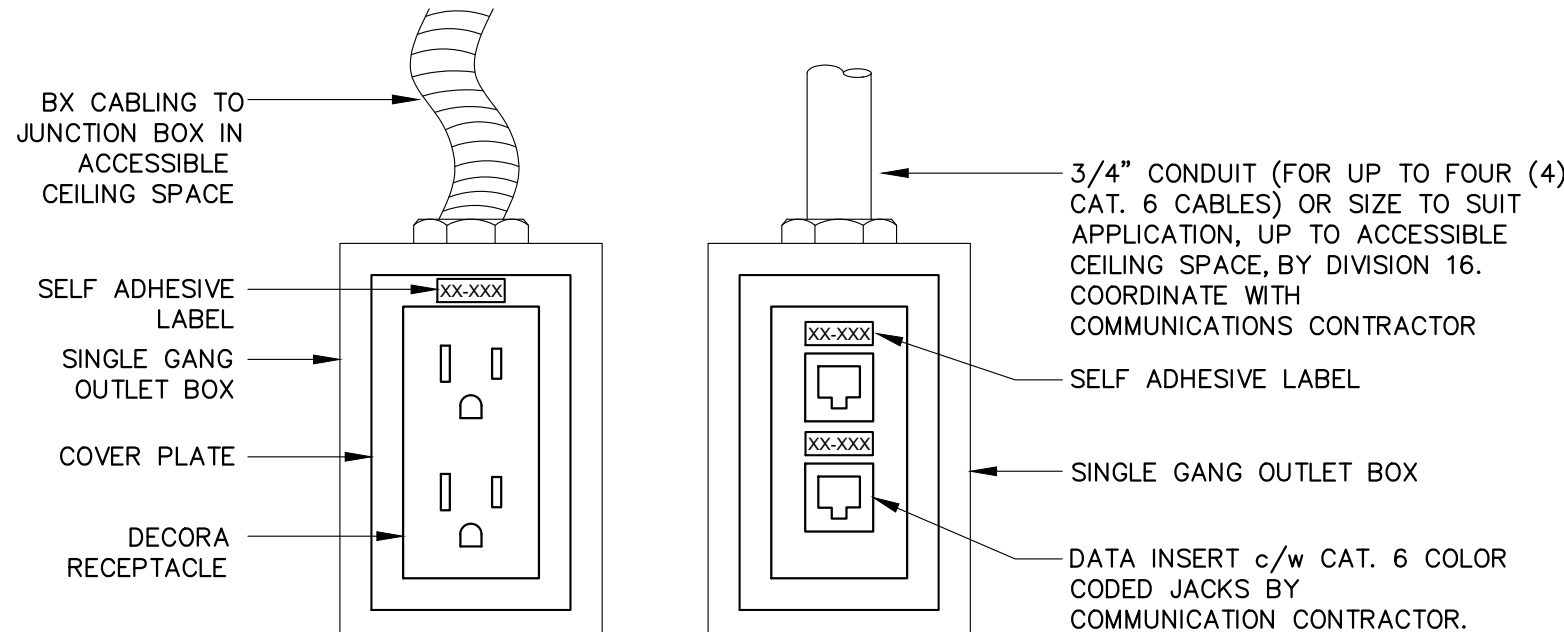


4
E-07
DETAIL OF FLOOR POKE-THROUGH
SYMBOL: 



- NOTES:
- BUS TO BE MOUNTED AT LOWER CORNER OF PLYWOOD BACKBOARD.
 - EQUIPMENT RACKS, CABINETS AND CABLE TRAY ARE TO BE TERMINATED ON THE BUS BAR. GROUND EACH EQUIPMENT USING 'STAR' CONFIGURATION, DAISY CHAIN NOT ACCEPTABLE.
 - ONE #6 AWG INSULATED GREEN GROUND WIRE IS TO BE PROVIDED IN 1"Ø FROM THE GROUND BUS BACK TO THE BUILDING GROUND RISER.

1
E-07
DETAIL OF WALL MOUNTED GROUND BUS BAR:
N.T.S.



- NOTES:
- REFER TO SPECIFICATIONS FOR MAXIMUM LENGTH OF WIRE IN FLEXIBLE CONDUIT (BX CABLING) ALLOWED.
 - CO-ORDINATE WITH DESIGNER FOR EXACT VOICE/DATA CONFIGURATION OUTLETS.
 - CO-ORDINATE WITH DESIGNER FOR EXACT COLOUR FINISH OF RECEPTACLES AND VOICE/DATA OUTLETS. NEW RECEPTACLES SHALL MATCH WITH EXISTING.
 - ALL ITEMS SHOWN BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.
 - IDENTIFICATION FOR RECEPTACLES BY ELECTRICAL CONTRACTOR, IDENTIFICATION FOR COMMUNICATIONS OUTLETS BY COMMUNICATIONS CONTRACTOR.
 - REFER TO COMMUNICATION DRAWINGS AND SPECIFICATIONS FOR VOICE AND DATA CABLES AND QUANTITIES

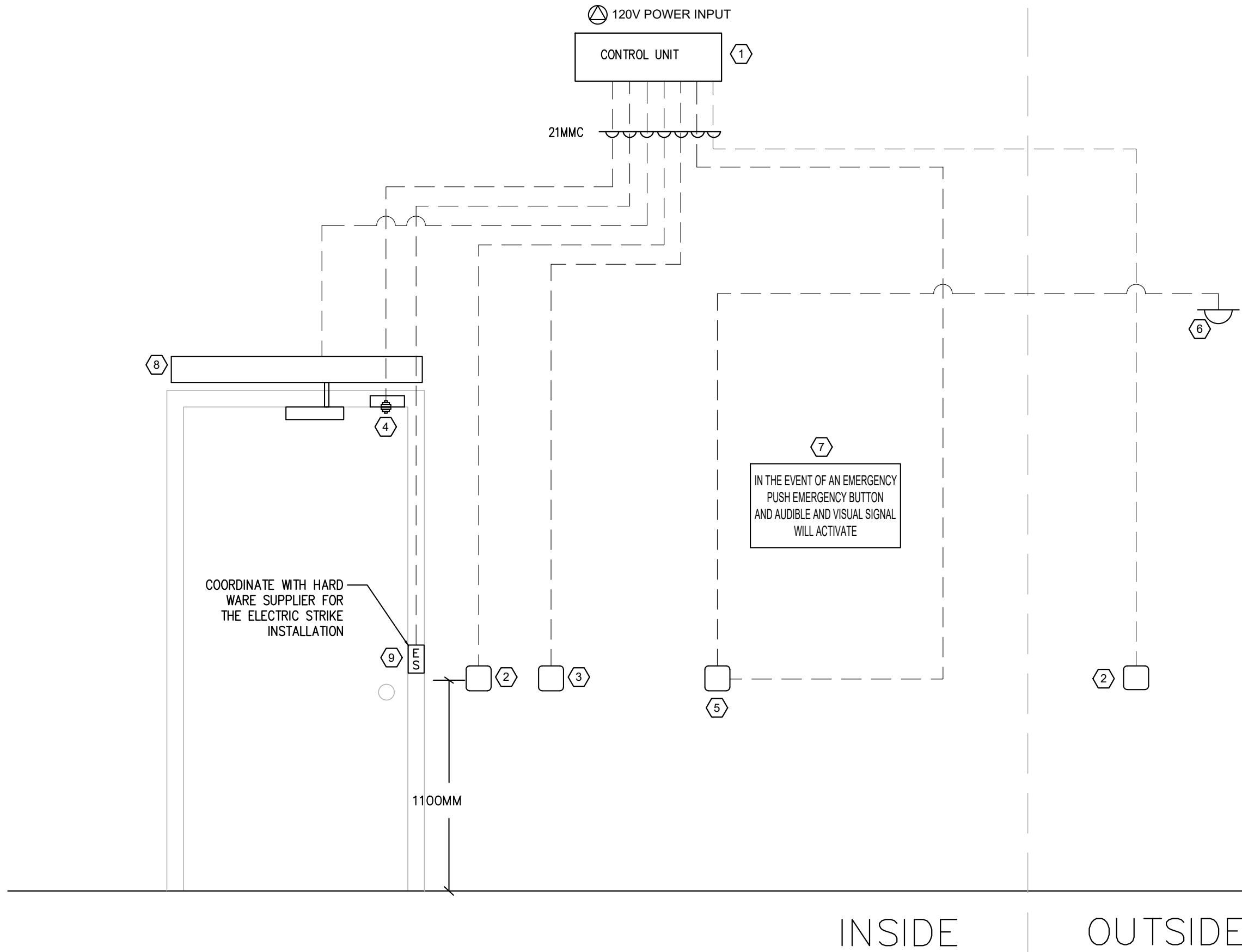
2
E-07
TYPICAL WALL MOUNTED POWER/DATA OUTLET DETAIL
N.T.S.

DESCRIPTION

- EQUIPMENT PACKAGE:
- MULTI-FUNCTION RELAY
 - VERTICAL SURFACE MOUNTED PUSH TO OPEN
 - PUSH TO LOCK PLATE WITH ENCLOSURE AND SIGN
 - DOOR CONTACT
 - 'PRESS FOR EMERGENCY ASSISTANCE' AND 'ASSISTANCE REQUESTED' LED ANNUNCIATOR WITH SOUNDER
 - 'ASSISTANCE REQUIRED' DOME LIGHT WITH SOUNDER MOUNTED ABOVE THE DOOR OUTSIDE OF THE WASHROOM
 - EMERGENCY ASSISTANCE SIGN
 - DOOR OPERATOR
 - ELECTRIC STRIKE

NOTES:

- DOOR HARDWARE AND DOOR MOTORS SHALL BE SUPPLIED AND INSTALLED BY DOOR HARDWARE, CONDUIT AND WIRING TO THE MOTORS SHALL BE BY THE ELECTRICAL CONTRACTOR.
- ALL ROUGH-INS AND CONDUIT BY THE ELECTRICAL CONTRACTOR. COORDINATE WITH THE ROUGH-IN LOCATION FOR THE DOOR PUSH BARS AND DOOR LOCK BUTTONS WITH INTERIOR DESIGNER/ARCHITECT.
- ALL DOOR CONTROL DEVICES INCLUDING DOOR PUSH BARS, LOCK BUTTONS AND EMERGENCY CALL ASSISTANCE DEVICES SHALL BE SUPPLIED AND INSTALLED DOOR HARDWARE.
- FINAL CONNECTIONS TO THE DOOR CONTROL DEVICES SHALL BE COMMISSIONED BY THE AUTHORIZED MANUFACTURER TECHNICIAN. ALL COSTS SHALL BE INCLUDED IN THIS CONTRACT.
- LOW VOLTAGE CABLES C/W CONDUIT SHALL BE SUPPLIED AND INSTALLED BY DOOR HARDWARE. CONDUIT WITH PULL STRING SHALL BE BY THE ELECTRICAL CONTRACTOR.
- COORDINATE WITH ARCHITECT AND DOOR HARDWARE CONTRACTOR FOR THE EXACT REQUIREMENTS.
- ALL CONDUIT AND BACK BOXES WITH PULL CORDS AND WIRES ARE TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR. ELECTRICIAN IS TO CONFIRM ALL WIRE LOCATIONS WITH THE AUTO DOOR OPERATOR SUPPLIER PRIOR TO PULLING WIRES.



3
E-07
BARRIER FREE WASHROOM EMERGENCY CALL ASSISTANCE AND DOOR CONTROL DETAIL
N.T.S.

CLIENT

MUNICIPALITY OF CASSELMAN

PROJECT NORTH

3	ISSUED FOR REVISED 99% REVIEW	2025-02-19
2	ISSUED FOR 99% COORDINATION	2023-06-13
1	ISSUED FOR 66% COORDINATION	2023-05-12
ISSUE	DESCRIPTION	DATE

IT IS THE RESPONSIBILITY OF THE APPROPRIATE CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS ON SITE AND PROMPTLY REPORT ALL ERRORS AND/OR OMISSIONS TO THE CONSULTANT BEFORE WORK COMMENCES.

ALL WORK IS TO FOLLOW THE OBC 2012 AND ANY OTHER APPLICABLE CODES AND REGULATIONS.

DO NOT SCALE DRAWINGS.

PROFESSIONAL STAMP

EXP Services Inc.
T: 613.688.1899
100 - 2650 Queensview Drive
Ottawa, ON K2B 8H6
Canada

www.exp.com

• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

PROJECT

1 INDUSTRIEL STREET
OFFICE FIT-UP

DRAWING

ELECTRICAL DETAILS

PROJECT No:	MRK-23002008-A0	REVISION:	
DRAWN:	KL	DATE:	MAY 2023
APPROVED:	DL	SCALE:	AS SHOWN
DRAWING No:			

E-07

[illegible]

[illegible]

[illegible]

[illegible]