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Trina Larsen
15 March 2022

ASSOCIATION OF PROFESSIONAL ENGINEERS AND GEOSCIENTISTS OF ALBERTA
PERMIT TO PRACTICE: LARSEN ENGINEERING INC
PERMIT NUMBER P14921
RESPONSIBLE MEMBER: TRINA LARSEN, M66188
DATE: 15 March 2022

No.	Description	Date	By
1	ISSUED FOR REVIEW	2022/02/07	TL
2	ISSUED FOR TENDER	2022/02/10	TL
3	ISSUED FOR TENDER	2022/02/16	TL
4	ISSUED FOR DP	2022/02/23	TL
5	ISSUED FOR BP	2022/03/15	TL

Seal

Client



Project
**PARKS CANADA
PALISADES MACHINE
SHED**

Scale AS NOTED
Project No. 22-004
Date 2022/03/15
Designed By TL
Drawn By CMF
Checked By TL
Drawing Title
COVER SHEET

Drawing No.

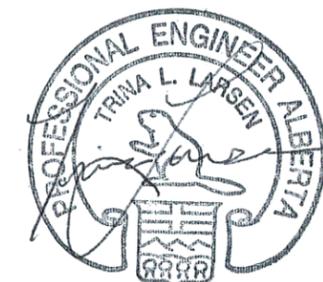
E0

LIST OF DRAWINGS	
NUMBER	SHEET TITLE
E0	COVER SHEET
E1	ELECTRICAL DEMOLITION PLAN
E2	ELECTRICAL RENOVATION PLANS
E3	SINGLE LINE DIAGRAM
E4	MECHANICAL SCHEDULE
E5	DETAILS

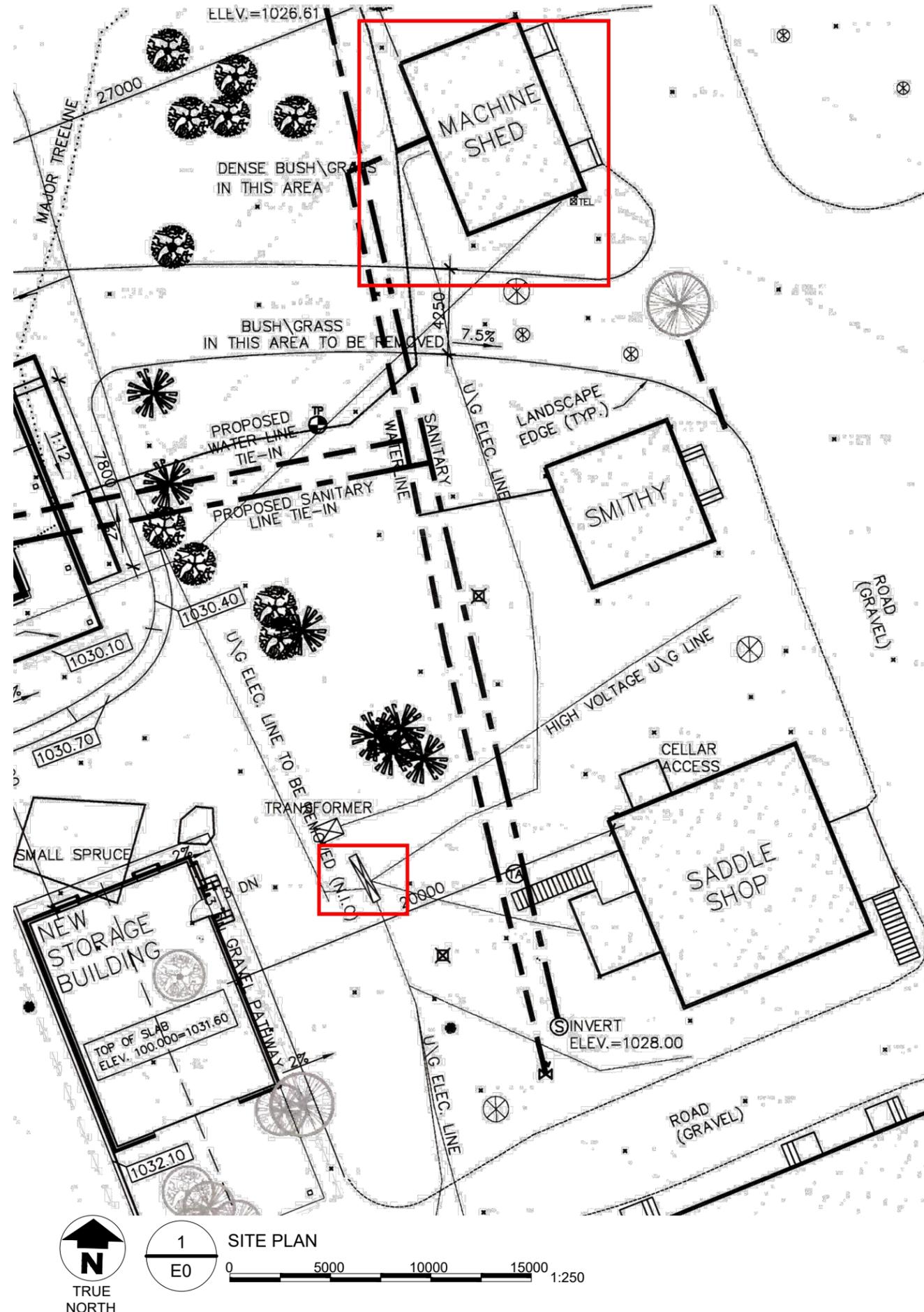
GENERAL NOTES

- A. SITE PLAN AND UNDERGROUND LOCATIONS PROVIDED FOR INFORMATION. CONTRACTOR TO PERFORM LOCATES AS REQUIRED TO COMPLETE THIS WORK.

SYMBOL LEGEND	
LIGHTING	
	WALL MOUNTED LUMINAIRE
	SINGLE POLE LIGHT SWITCH
FIRE ALARM	
	SMOKE DETECTOR
	SMOKE ALARM, 120VAC c/w BATTERY BACKUP
	MONITOR MODULE
POWER	
	5-15R DUPLEX RECEPTACLE
	5-15R GFCI DUPLEX RECEPTACLE
	5-20R ABOVE COUNTER DUPLEX RECEPTACLE
	BRANCH PANELBOARD
	JUNCTION BOX
	ELECTRIC HEATER
SINGLE LINE DIAGRAM	
	BREAKER, MOULDED CASE
	BREAKER, DRAW OUT
	FUSE
	UTILITY METER
	TRANSFORMER
	DELTA-WYE GROUND CONNECTION
	CURRENT TRANSFORMER
	POTENTIAL TRANSFORMER
ABBREVIATIONS	
E	EXISTING, TO REMAIN
RE	EXISTING IN NEW OR REINSTALLED LOCATION
RL	EXISTING, TO BE RELOCATED
RR	EXISTING, TO BE REMOVED AND REINSTALLED
TR	TAMPER RESISTANT
---	EQUIPMENT TO BE REMOVED



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Project
**PARKS CANADA
PALISADES MACHINE
SHED**

Scale AS NOTED
Project No. 22-004
Date 2022/03/15

Designed By TL
Drawn By CMF
Checked By TL
Drawing Title
**ELECTRICAL
DEMOLITION PLAN**

Drawing No.

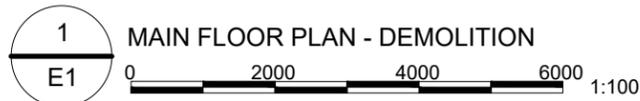
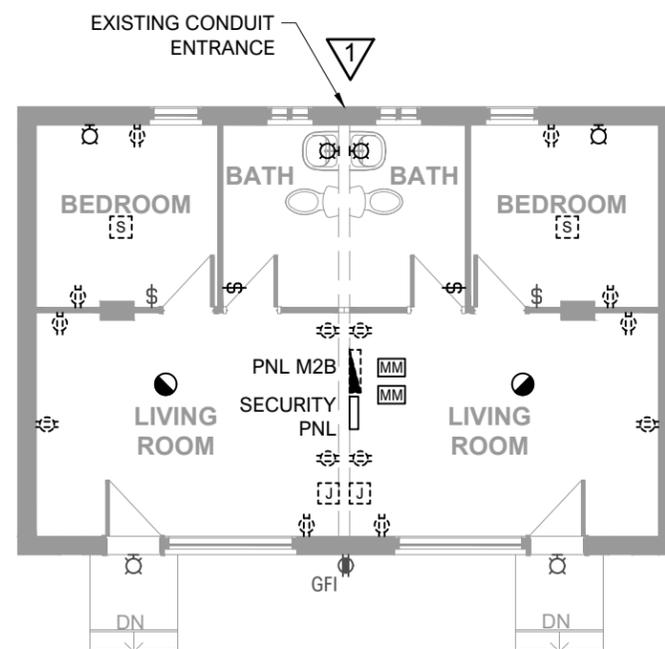
E1

GENERAL NOTES

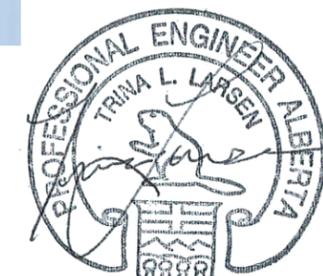
- ALL INTERIOR RECEPTACLES TO BE REPLACED WITH NEW TAMPER RESISTANT RECEPTACLES IN SAME LOCATIONS.
- ALL INTERIOR LIGHTS TO BE RE-LAMPED WITH NEW MEDIUM BASE A19 LED LAMPS, 11W, 3000K CCT (TWO LAMPS PER WALL MOUNTED LUMINAIRE).

KEY NOTES #

- EXISTING CONDUIT AND CABLE TO BE REMOVED BACK TO PANEL M2A. TRENCH TO BE USED FOR NEW CONDUIT.
- REMOVE EXISTING UNUSED CABLE FROM BETWEEN THE WALLS, BACK TO THE SOURCE.



2
E1 EXISTING CABLE - DEMOLITION



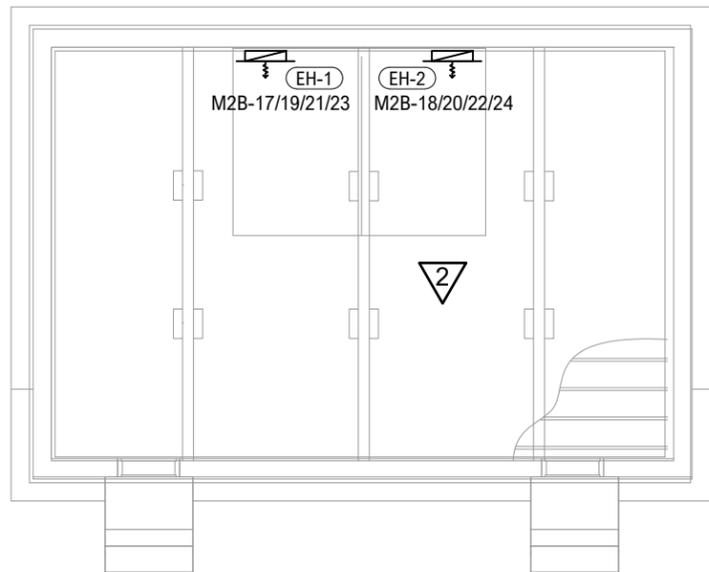
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Member Number M66188
15 March 2022

Branch Panel: PANEL M2B

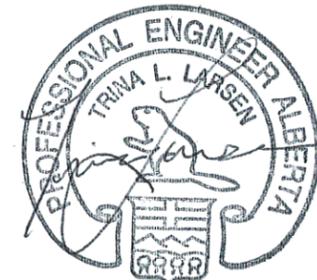
Project: PALISADES MACHINE SHED Project Number: 22-004 A.I.C. Rating: 10 kAIC
 Location: NORTH SUITE Volts: 120/240 Wye Mains Type: -
 Supply From: PANEL M2A Phases: 1 Mains Rating: 100A
 Mounting: SURFACE Wires: 3 MCB Rating: 100A 2P

Notes:

CCT	Circuit Description	Trip	Poles	A	B	Poles	Trip	Circuit Description	CCT
1	SOUTH SUITE LIGHTING	15A	1P			1P	15A	SOUTH SUITE RECEPTACLES	2
3	SOUTH SUITE FURNACE	15A	1P			1P	15A	SOUTH SUITE FRIDGE RECEPTACLE	4
5	SOUTH SUITE MICROWAVE RECEPTACLE	20A	1P			1P	15A	HEAT TRACE	6
7	NORTH SUITE LIGHTING	15A	1P			1P	15A	NORTH SUITE RECEPTACLES	8
9	NORTH SUITE FURNACE	15A	1P			1P	15A	NORTH SUITE FRIDGE RECEPTACLE	10
11	NORTH SUITE MICROWAVE RECEPTACLE	20A	1P			1P	15A	SECURITY PANEL	12
13	SOUTH SUITE ABOVE-COUNTER RCPT	20A	1P			1P	15A	EXTERIOR GFCI RECEPTACLE	14
15	SOUTH SUITE WASHROOM GFCI RCPT	15A	1P			1P	20A	SPARE	16
17	NORTH SUITE ABOVE-COUNTER RCPT	20A	1P					SPACE	18
19	NORTH SUITE WASHROOM GFCI RCPT	15A	1P					SPACE	20
21	SPARE	20A	1P					SPACE	22
23	SPACE							SPACE	24
25									26
27	WATER HEATER TK-1-A (UPPER)	15A	2P			2P	15A	WATER HEATER TK-1-B (LOWER)	28
29									30
31									32
33									34
35	SOUTH SUITE ELECTRIC HEATER EH-1	15A	2P			2P	15A	NORTH SUITE ELECTRIC HEATER EH-2	36
37									38
39									40



1 FOUNDATION PLAN - RENOVATION
 E2 0 2000 4000 6000 1:100



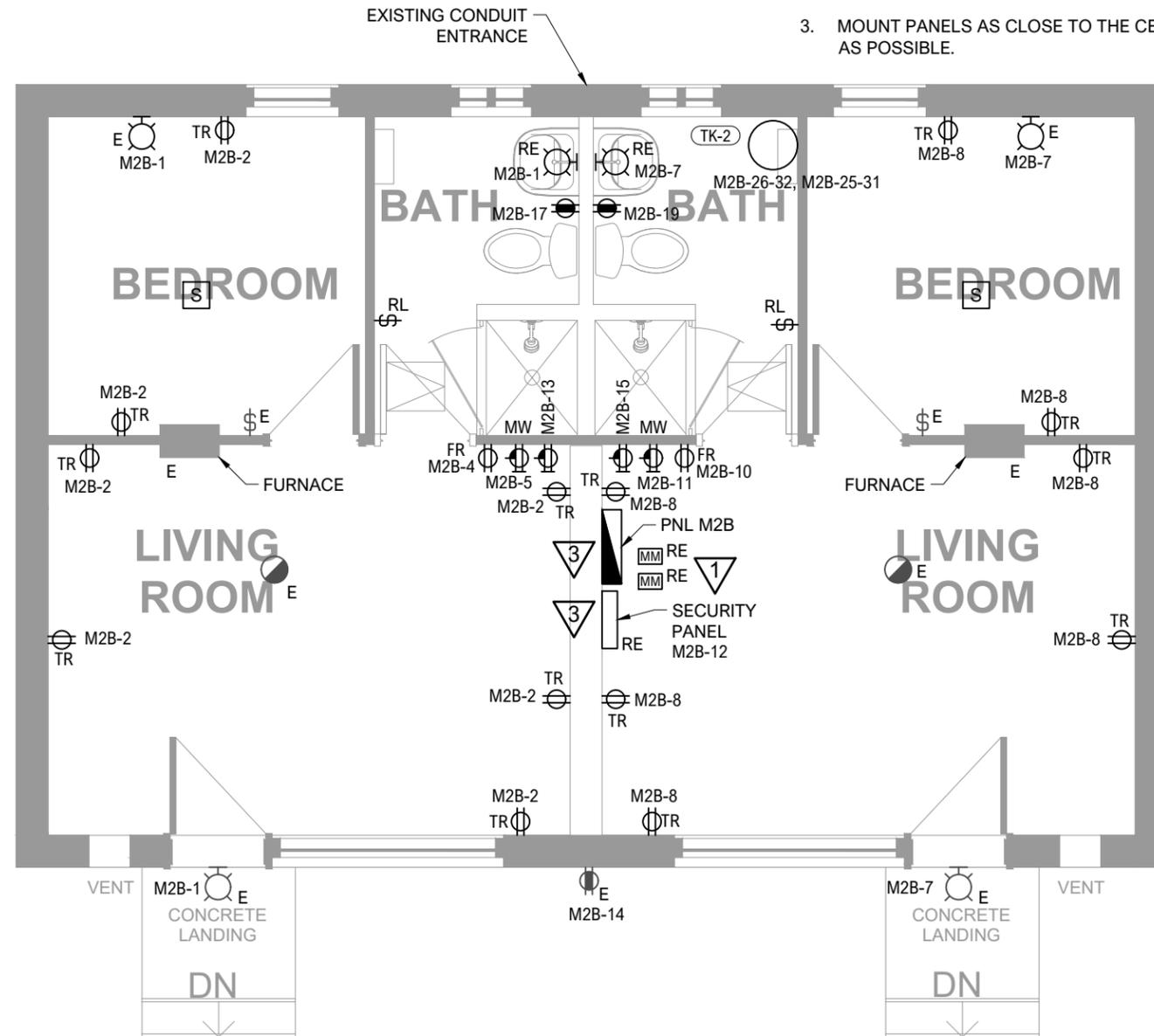
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GENERAL NOTES

- A. ALL INTERIOR RECEPTACLES TO BE REPLACED WITH NEW TAMPER RESISTANT RECEPTACLES IN SAME LOCATIONS.
- B. ALL INTERIOR LIGHTS TO BE RE-LAMPED WITH NEW MEDIUM BASE A19 LED LAMPS, 11W, 3000K CCT (TWO LAMPS PER WALL MOUNTED LUMINAIRE).

KEY NOTES

1. RECONNECT MONITORING MODULES AND SECURITY PANEL TO THE EXISTING MAIN SERVICES. CONFIRM OPERATION.
2. PROVIDE HEAT TRACE ON THE EXPOSED INCOMING WATER PIPES AND SANITARY PIPES TO PREVENT FREEZE-UP. REFER TO MECHANICAL FOR PIPE LOCATIONS (UP TO EIGHT (8) PIPES).
3. MOUNT PANELS AS CLOSE TO THE CEILING AS POSSIBLE.



2 MAIN FLOOR PLAN - RENOVATION
 E2 0 1000 2000 3000 1:50
 TRUE NORTH



17225 - 102 Avenue Edmonton AB T5S 1J8 Canada
 T 780.486.6400 F 780.486.6401 www.aci-arch.com

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Seal

Client



Project
PARKS CANADA
PALISADES MACHINE SHED

Scale AS NOTED Designed By TL
 Project No. 22-004 Drawn By CMF
 Date 2022/03/15 Checked By TL

Drawing Title
ELECTRICAL RENOVATION PLANS

Drawing No.

E2

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TRIVA L. LARSEN, M66188

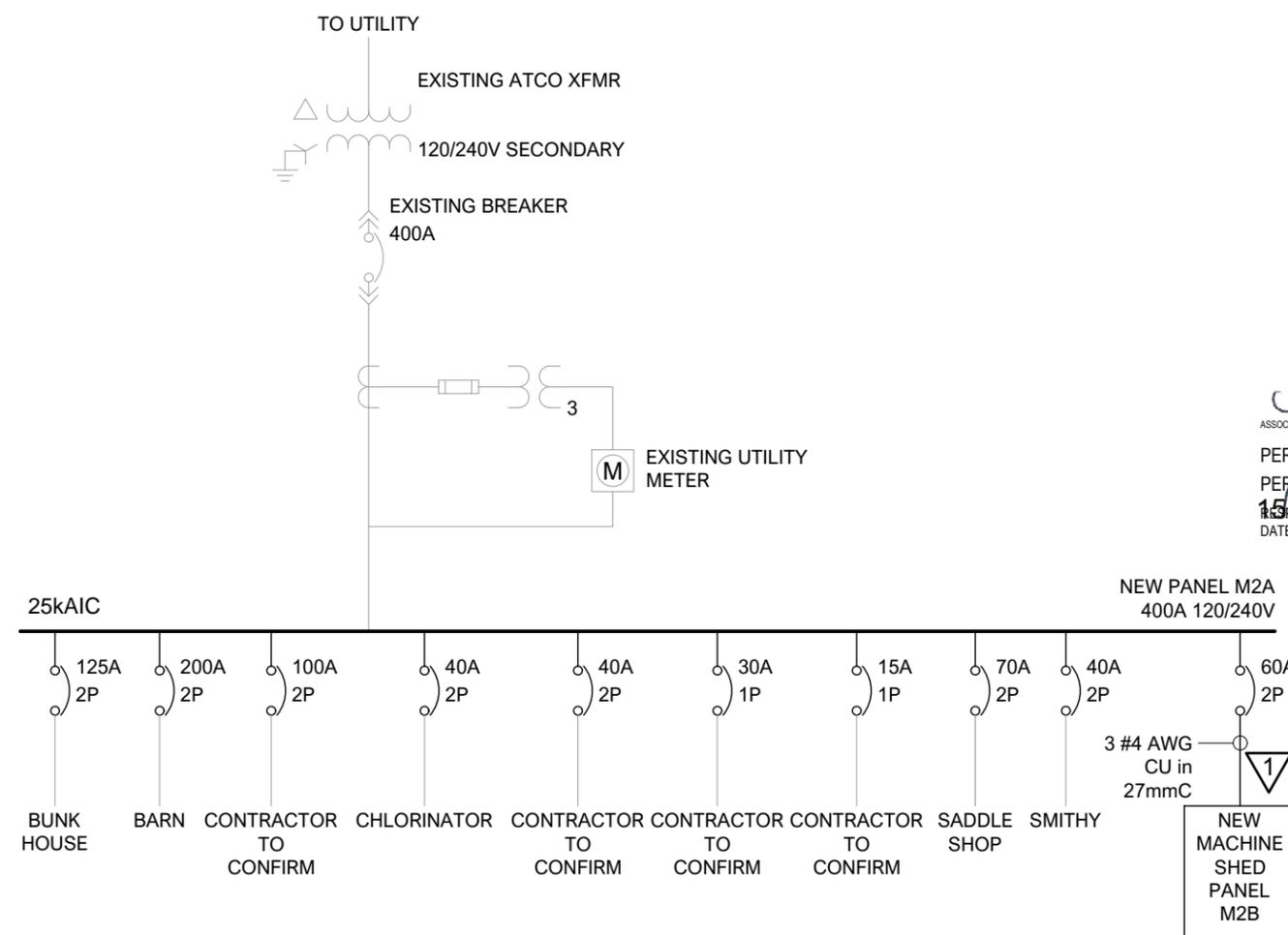
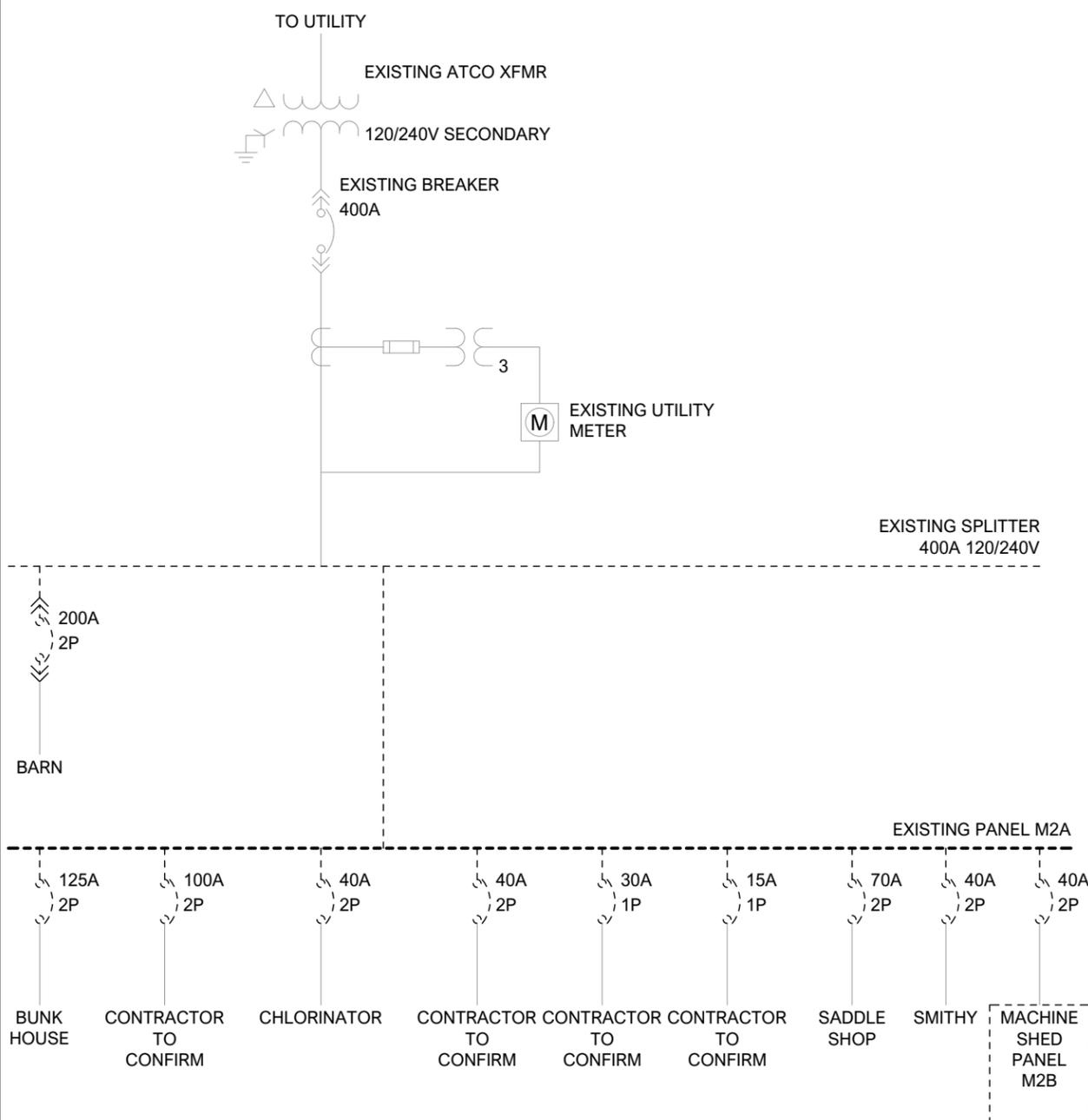
DATE: 15 March 2022

GENERAL NOTES

- A. EXISTING FEEDERS TO EACH BUILDING TO REMAIN, EXCEPT FOR THE MACHINE SHED FEEDER WHICH WILL BE REMOVED AND REPLACED.

KEY NOTES 

1. CONTRACTOR TO CONFIRM THE SUITABILITY OF THE EXISTING CONDUIT, PRIOR TO REMOVAL. ALTERNATE PRICING TO RE-USE CONDUIT IS INCLUDED ON THE BID SHEET.



1
E3 SINGLE LINE DIAGRAM - EXISTING/DEMO

2
E3 SINGLE LINE DIAGRAM - NEW



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Project
**PARKS CANADA
PALISADES MACHINE
SHED**

Scale AS NOTED
Project No. 22-004
Date 2022/03/15

Designed By TL
Drawn By CMF
Checked By TL

Drawing Title
SINGLE LINE DIAGRAM

Drawing No.

E3

MECHANICAL EQUIPMENT SCHEDULE

TAG	EQUIPMENT DESCRIPTION	LOCATION	RATING / LOAD					CONTROL PACKAGE WITH EQUIPMENT (YES/NO)	E/N	POWER SUPPLY			STARTER		CONTROL	LOCAL DISC		WIRE & CONDUIT			COMMENTS
			FLA	KW	HP	VOLTS	φ			SOURCE	BREAKER SIZE	CCT	TYPE	SUPPLIED BY		REQUIRED	SUPPLIED BY	WIRE SIZE	QTY	CONDUIT SIZE (mm)	
EH-1	ELECTRIC HEATER	CRAWLSPACE	10.7	1.9		240	1		N	PANEL M2B	15A - 2P		MAN	M		YES	E	#12 AWG	2	21	
EH-2	ELECTRIC HEATER	CRAWLSPACE	10.7	1.9		240	1		N	PANEL M2B	15A - 2P		MAN	M		YES	E	#12 AWG	2	21	
TK-1-A	ELECTRIC WATER HEATER	WASHROOM	12	3		240	1		N	PANEL M2B	15A - 2P		MAN	E		YES	E	#12 AWG	2	21	
TK-1-B	ELECTRIC WATER HEATER	WASHROOM	12	3		240	1		N	PANEL M2B	15A - 2P		MAN	E		YES	E	#12 AWG	2	21	

LEGEND

E/N = EMERGENCY OR NORMAL POWER E = ELECTRICAL M = MECHANICAL STARTER TYPES: H-O-A = HAND-OFF-AUTO SWITCH INT = INTEGRAL TO UNIT MAG = MAGNETIC STARTER MAN = MANUAL STARTER VFD = VARIABLE FREQUENCY DRIVE	CONTROL DEVICES: BMS = BUILDING MANAGEMENT SYSTEM C = CONTINUOUS OPERATION CP = CONTROL POWER ET = LINE VOLTAGE THERMOSTAT FAP = FIRE ALARM PANEL KCP = KITCHEN CONTROL PANEL O = OTHER OC = OCCUPANCY SENSOR SW = WIRED SWITCH/STARTER T = THERMOSTAT TIM = TIMER TRA = REVERSE ACTING THERMOSTAT TS = TEMPERATURE SENSOR
---	---

GENERAL NOTES

- CONFIRM FINAL MECHANICAL EQUIPMENT REQUIREMENTS WITH MECHANICAL CONTRACTOR'S SHOP DRAWINGS AND ADJUST CIRCUIT WIRING AND BREAKER RATING IF REQUIRED AT NO ADDITIONAL COST.
- REFER TO MECHANICAL DRAWINGS FOR EQUIPMENT LOCATION.
- PROVIDE GROUND WIRE IN ALL CONDUITS.
- WIRE AND CONNECT CONTROL EQUIPMENT SUPPLIED BY MECHANICAL AS REQUIRED.
- PROVIDE LINE VOLTAGE WIRING TO VFD AND BETWEEN VFD AND MECHANICAL UNIT, AND ALL LINE AND LOAD REACTORS. COORDINATE WITH MECHANICAL FOR EXACT REQUIREMENTS. WIRING TO BE DRIVE-RX RATED CABLES WITH A DEDICATED GROUND CONDUCTOR OF THE SAME SIZE AS THE PHASE CONDUCTORS.
- LOCAL DISCONNECTS FOR MOTORS WITH VFDs TO BE LOCATED ON THE LINE SIDE OF THE VFD.
- CIRCUIT NUMBERS SHOWN ARE FOR QUANTITY ONLY. USE THE SPACE AVAILABLE IN PANEL.
- LOW VOLTAGE CONTROLS AND WIRING ARE BY MECHANICAL. LINE VOLTAGE CONTROLS ARE BY ELECTRICAL.
- MOTOR STARTERS ARE SUPPLIED BY MECHANICAL WHERE REQUIRED.

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Seal

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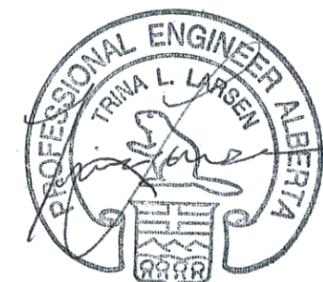
Project
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PALISADES MACHINE
SHED**

Scale	AS NOTED	Designed By	TL
Project No.	22-004	Drawn By	CMF
Date	2022/03/15	Checked By	TL

Drawing Title
**MECHANICAL
SCHEDULE**

Drawing No.

E4



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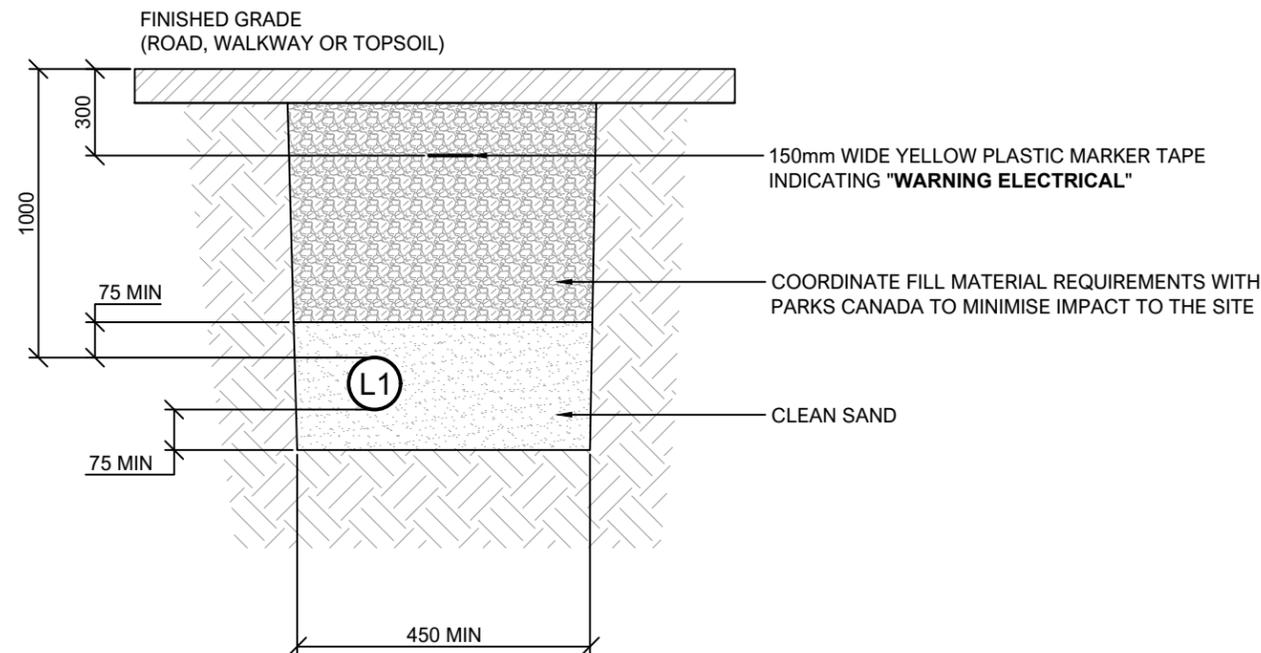
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Project No.	22-004	Drawn By	CMF
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Drawing Title
DETAILS

Drawing No.

E5

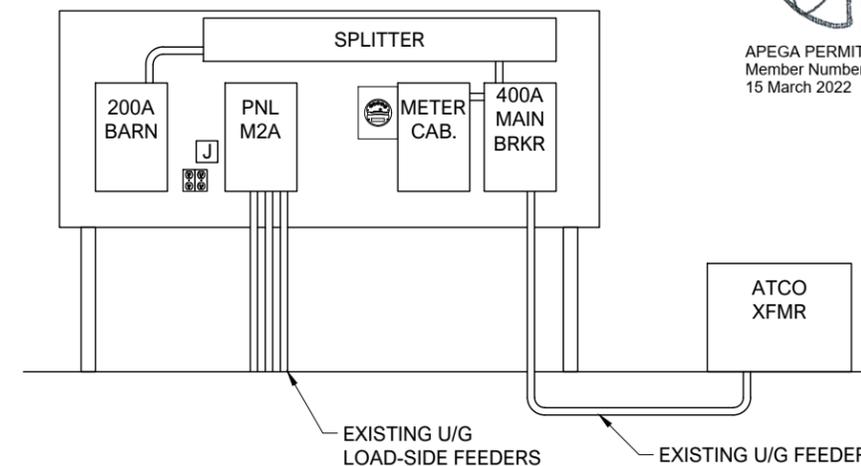


(L1) 53mm RPVC CONDUIT FOR POWER

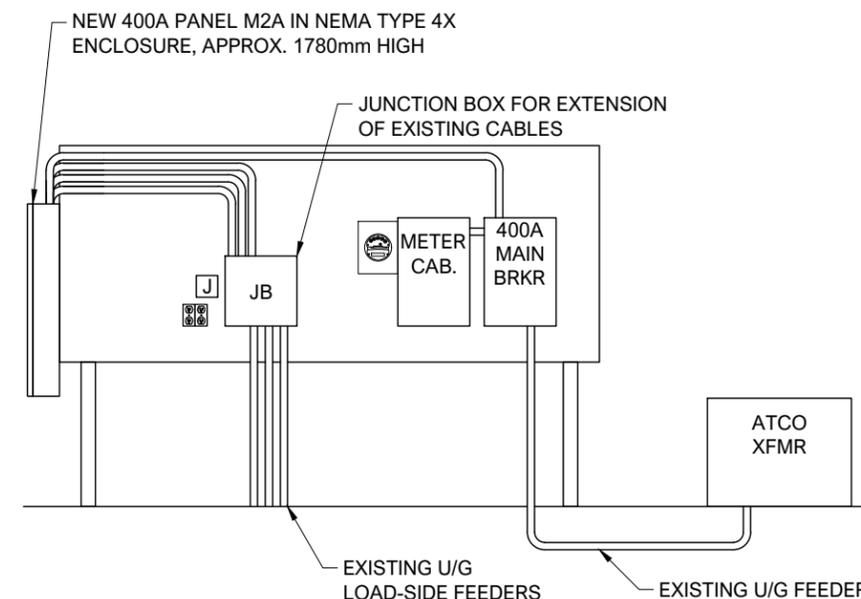
NOTES

- PROVIDE POLYPROPYLENE PULL STRING IN ALL CONDUITS
- MAINTAIN MINIMUM 300mm (12") VERTICAL AND HORIZONTAL SEPARATION BETWEEN POWER CONDUIT AND ALL OTHER SERVICES AND CONDUIT
- FOR CROSS SECTIONS, POWER CONDUIT TO RUN UNDER OTHER SERVICES OR CONDUIT
- CONTRACTOR SHALL LAY OUT AND INSTALL CONDUIT SO IT RUNS STRAIGHT WITH NO GREATER THAN THREE 90-DEGREE BENDS IN EACH RUN
- CONDUIT RUNS SHALL NOT EXCEED 120m BETWEEN PULL POINTS
- RIGID PVC EXPANSION AND DEFLECTION JOINTS SHALL BE INSTALLED WHERE CONDUITS EXIT THE BASE INTO THE TRENCH TO ACCOMMODATE DIFFERENTIAL SETTLEMENTS.

1
UNDERGROUND CONDUIT TRENCHING DETAIL



2
METER CABINET ELEVATION - EXISTING



3
METER CABINET ELEVATION - NEW