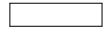
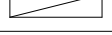
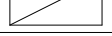
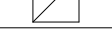
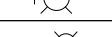
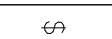


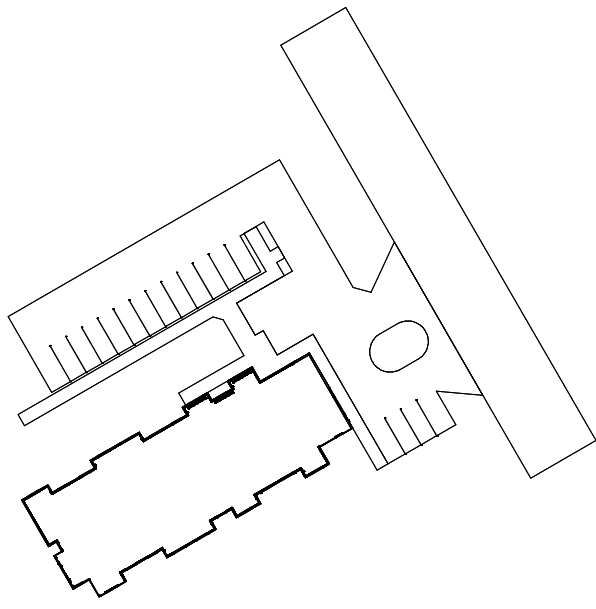
PRINT DATE: 2020-07-09 13:22:38
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LIGHTING PLAN SYMBOLS	
	SURFACE OR SUSPENDED MOUNTED LUMINAIRE, 305x1220mm (1'x4')
	SURFACE OR SUSPENDED MOUNTED, 610x1220mm (2'x4')
	SURFACE OR SUSPENDED MOUNTED LUMINAIRE, 610x610mm (2'x2')
	RECESSED LUMINAIRE, 305x1220mm (1'x4')
	RECESSED LUMINAIRE, 610x1220mm (2'x4')
	RECESSED LUMINAIRE, 610x610mm (2'x2')
	STRIP LUMINAIRE (LENGTH AS PER LUMINAIRE SCHEDULE)
	WALL MOUNTED LINEAR LUMINAIRE, 1220mm (4')
	RECESSED LUMINAIRE / DOWN LIGHT
	SURFACE MOUNTED OR SUSPENDED LUMINAIRE
	WALL MOUNTED LUMINAIRE
	POLE MOUNTED LUMINAIRE (SINGLE HEAD)
	LINE VOLTAGE SWITCH
	ROOM LIGHTING CONTROLLER CEILING MOUNTED INFRARED LIGHTING OCCUPANCY SENSOR (DT=DUAL TECHNOLOGY)
	WALL SWITCH SENSOR

1. SALVAGE EXISTING LED LUMINAIRES LOCATED IN THE SUITES, TO BE TURNED OVER TO THE OWNER AT THE END OF THE PROJECT.
2. DISCONNECT AND REMOVE LIGHT FIXTURES AS NOTED. RETAIN ASSOCIATED LIGHTING CONTROLS, PRESERVE EXISTING CIRCUITS AND CABLING FOR RE-USE. RETAIN LIGHTING CIRCUITS FOR REUSE.
3. UNLESS OTHERWISE NOTED ALL WIRING TO 3#12AWG+GND IN 21mm EMT CONDUIT.

1. DISCONNECT AND REMOVE EXTERIOR LIGHTING FIXTURES ASSOCIATED LIGHTING CONTROLS. PRESERVE EXISTING CIRCUITS AND CABLING FOR RE-USE. RETAIN LIGHTING CIRCUITS FOR REUSE.
2. DISCONNECT AND REMOVE PARKING LOT LIGHTING CW ASSOCIATED LIGHTING CONTROLS. CONDUIT AND WIRING TO BE RE-USED FOR NEW INFORMATION.
3. PROVIDE NEW EXTERIOR LIGHTING FIXTURES ASSOCIATED LIGHTING CONTROLS. CONDUIT AND WIRING. REFER TO LIGHTING SCHEDULE FOR MORE INFORMATION.
4. PROVIDE PARKING LOT LIGHTING CW ASSOCIATED LIGHTING CONTROLS. CONDUIT AND WIRING. REFER TO LIGHTING SCHEDULE FOR MORE INFORMATION.
5. PROVIDE NEW WEATHERPROOF EVCS CAR CHARGER AS NOTED CW NEW PUMP AND PROVIDE NEW 100A-200V ELECTRICAL CONNECTION FROM MAIN SWITCHGEAR CW 3S3AWG+18AWG GND IN UNDERGROUND CONDUIT TO NEW EVCS CHARGER. REFER TO LINE DIAGRAM FOR MORE INFORMATION.
6. PROVIDE 30A-200V ELECTRICAL CONNECTION FOR THE CIRCUIT PUMP AS INDICATED. REFER TO MECHANICAL SCHEDULE FOR MORE INFORMATION.

SCHEMATIC SYMBOLS	
	DRAW OUT LOW VOLTAGE CIRCUIT BREAKER
	LOW VOLTAGE CIRCUIT BREAKER
	DISCONNECT SWITCH
	FUSE
	TRANSFORMER
PANEL N2A 42POS PANEL N2A	PANELBOARD



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0	2026/07/09	ISSUED FOR TENDER	DSO
No.	Date	Description	By

CONSULTANT(S):



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www.cima.ca

CLIENT:

LANARK COUNTY

LANARK DEEP 24 BOURKE ST.
SMITHS FALLS, ON, K7A 3L9

PROJECT NAME:

LANARK DEEP ENERGY RETROFIT DESIGN

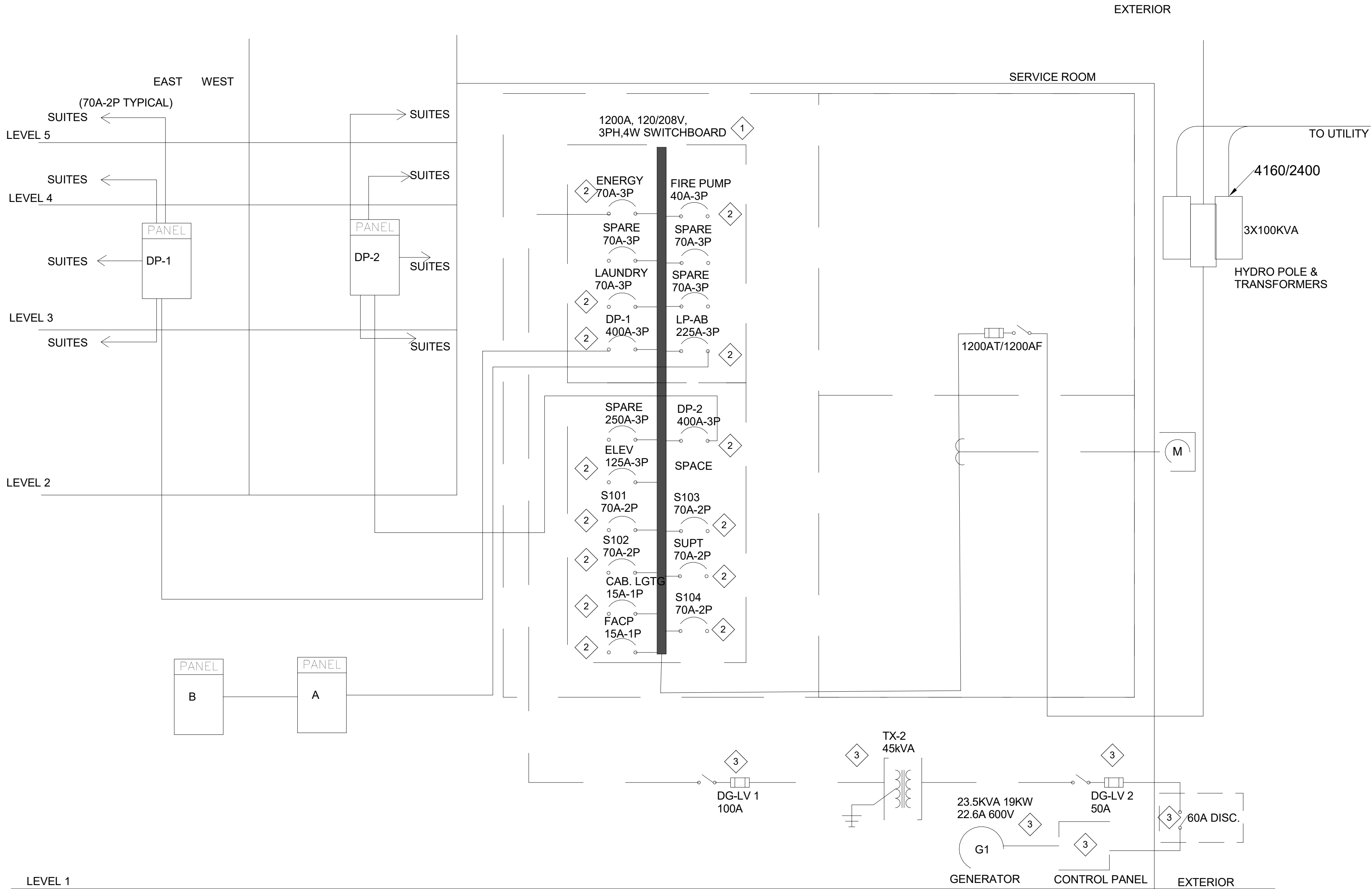
SHEET TITLE:

LEGENDS AND SITE PLAN

DISCIPLINE:

ELECTRICAL

DRAFTER:	M. T.	SCALE:	AS NOTED
DESIGNER:	M. T.	DATE:	2026/07/09
APPROVER:	D. O.	CHECKER:	D. O.
PROJECT No:	A0002667	DRAWING No:	E000
SHEET No:	of		

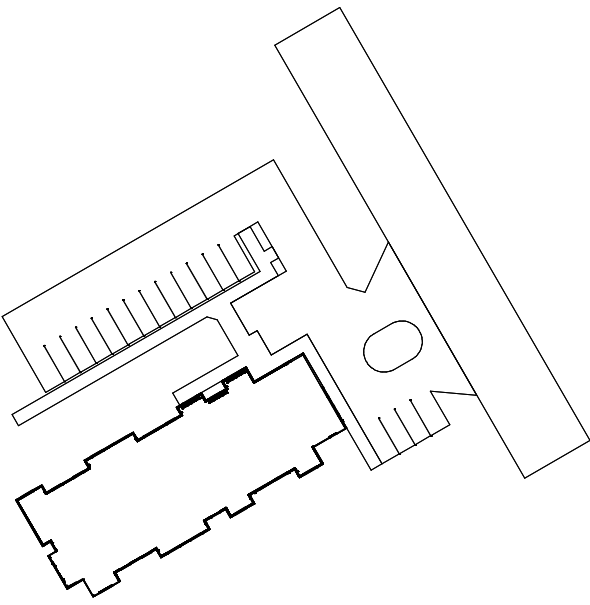


GENERAL NOTES:

1. ALL DISTRIBUTION WIRING SIZED AS COPPER 75C UNLESS NOTED OTHERWISE.
2. EQUIPMENT INTERRUPT RATINGS TO BE COORDINATED WITH THE SHORT CIRCUIT STUDY RESULTS.
3. ALL MOTOR WIRING RATED 60C UNLESS NOTED OTHERWISE.

DRAWING NOTES:

1. DISCONNECT AND REMOVE 1200A, 120/208V MAIN SWITCHBOARD AS INDICATED. EXISTING FEEDER AND BRANCH CIRCUIT WIRING SHALL REMAIN FOR REUSE. PROVIDE MINIMUM 2 WEEKS NOTICE FOR SHUTDOWN. PROLONGED SHUTDOWNS WILL NOT BE PERMITTED WHEN WEATHER FORECAST IS PROJECTED BELOW 15C DURING THE ANTICIPATED LENGTH OF THE SHUTDOWN.
2. DISCONNECT EXISTING BRANCH CIRCUITS AS INDICATED FROM EXISTING SWITCHBOARD PRIOR TO DEMOLITION. RETAIN EXISTING FEEDERS AND BRANCH CIRCUITS FOR REUSE.
3. DEMOLISH ALL EQUIPMENT ASSOCIATED WITH CO-GENERATION SYSTEM BACK TO SOURCE, INCLUDING FEEDERS, DISCONNECTS, TRANSFORMERS. PATCH HOLES THROUGH ENVELOPE WITH APPROVED WEATHERPROOF COMPOUND.



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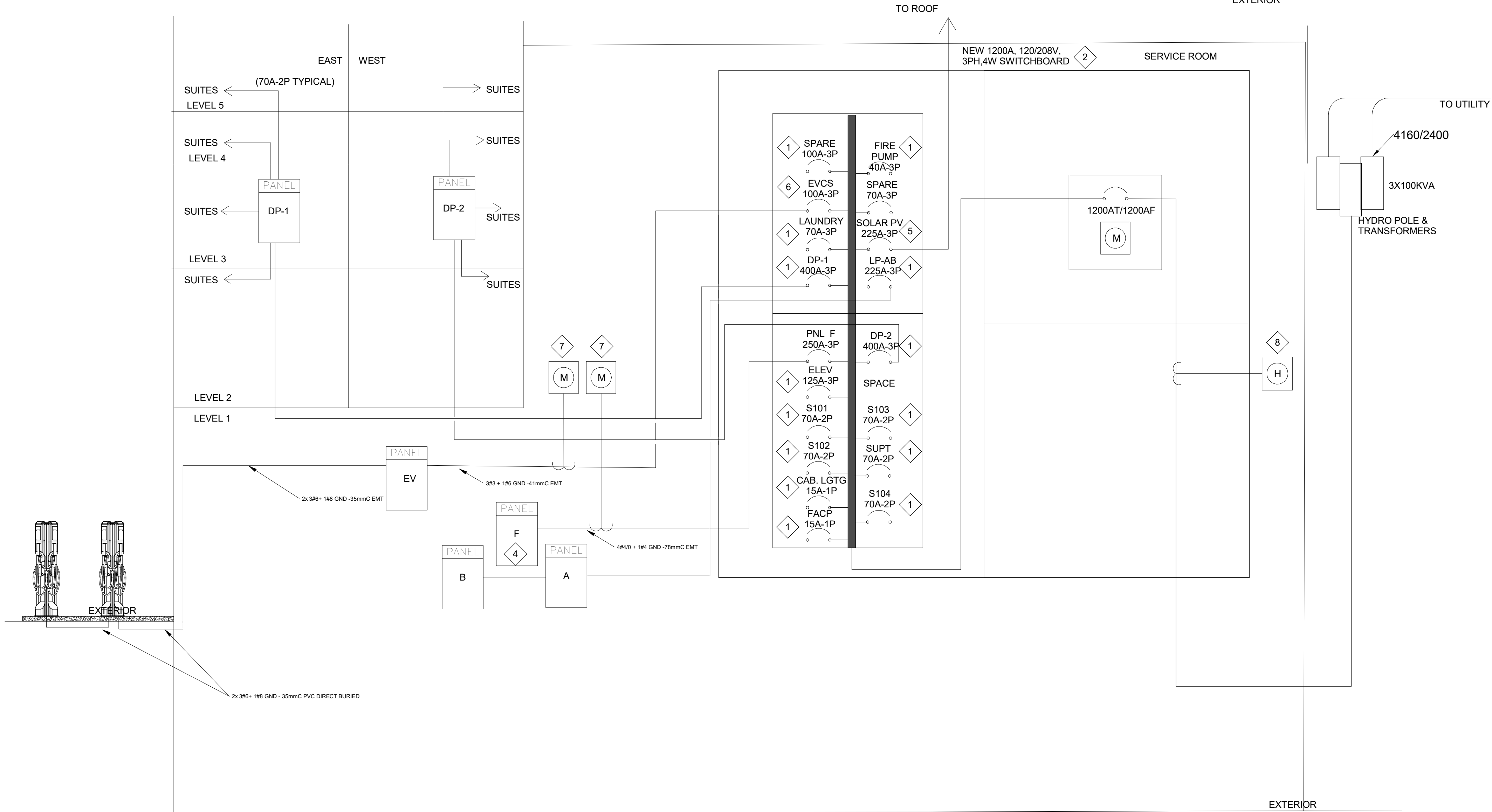
CLIENT:
LANARK COUNTY
LANARK DEEP 24 BOURKE ST.
SMITHS FALLS, ON, K7A 3L9

PROJECT NAME:
LANARK DEEP ENERGY RETROFIT DESIGN

SHEET TITLE:
SINGLE LINE DIAGRAM DEMOLITION

DISCIPLINE: ELECTRICAL			
DRAFTER:	M.T.	SCALE:	AS NOTED
DESIGNER:	M.T.	DATE:	2026/07/09
APPROVER:	D.O.	CHECKER:	D.O.
PROJECT No:	A0002667	DRAWING No: E002	
SHEET No:	of		

1 PARTIAL SINGLE LINE DIAGRAM



GENERAL NOTES:

1. ALL DISTRIBUTION WIRING SIZED AS COPPER 75C UNLESS NOTED OTHERWISE.
2. EQUIPMENT INTERRUPT RATINGS TO BE COORDINATED WITH THE SHORT CIRCUIT STUDY RESULTS
3. ALL MOTOR WIRING RATED 60C UNLESS NOTED OTHERWISE.

DRAWING NOTES:

1. RECONNECT RETAINED EXISTING BRANCH CIRCUIT TO NEW 1200A, 120/208V SWITCHBOARD AS INDICATED TO THE ASSOCIATED BREAKER.
2. PROVIDE NEW MAIN SWITCHBOARD RATED AT 1200A, 120/208V, 3PH, 4W C/W NEW BREAKER INTEGRATED DIGITAL METERING ON MAIN BREAKER, AND BREAKERS SUPPLYING EVSE AND NEW MECHANICAL EQUIPMENT PANEL. RECONNECT RETAINED FEEDER TO NEW SWITCHBOARD.
3. NEW BREAKER INTEGRATED DIGITAL METERING ON MAIN BREAKER.
4. PROVIDE NEW SURFACE MOUNTED ELECTRICAL PANEL 'F' RATED AT 400A, 120/208V, 3PH, 4W. REFER TO SINGLE LINE DIAGRAM AND PANEL SCHEDULE FOR MORE INFORMATION.
5. PROVIDE NEW LOCKABLE 225A-3P BREAKER TO FACILITATE INSTALLATION OF SOLAR PV.
6. PROVIDE 100A-208V ELECTRICAL CONNECTION TO NEW LOAD SHARING EVCS CHARGER C/W LOCAL DISCONNECT SWITCH. COORDINATE FINAL LOCATION OF EVCS PRIOR TO INSTALLATION. REFER TO DRAWING E400 FOR TRENCHING DETAIL.
7. NEW DIGITAL METERS FOR EV AND MECHANICAL LOADS.
8. COORDINATE WITH HYDRO AND RECONNECT METERING.

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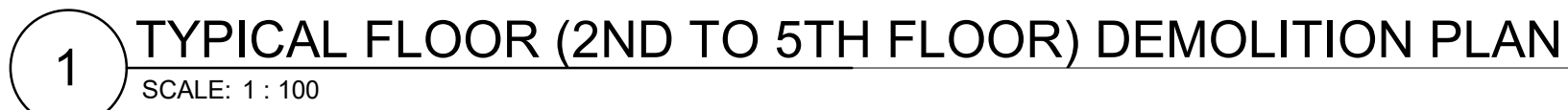
CLIENT:
LANARK COUNTY
LANARK DEEP 24 BOURKE ST.
SMITHS FALLS, ON, K7A 3L9

PROJECT NAME:
LANARK DEEP ENERGY RETROFIT DESIGN

SHEET TITLE:
SINGLE LINE DIAGRAM RENOVATION

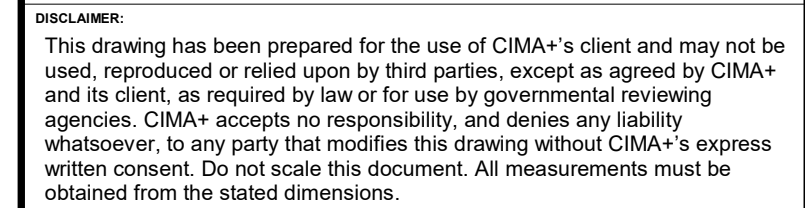
DISCIPLINE:
ELECTRICAL

DRAFTER:	M.T.	SCALE:	AS NOTED
DESIGNER:	M.T.	DATE:	2026/07/09
APPROVER:	D.O.	CHECKER:	D.O.
PROJECT No:	A0002667	DRAWING No:	E003
SHEET No:	of		

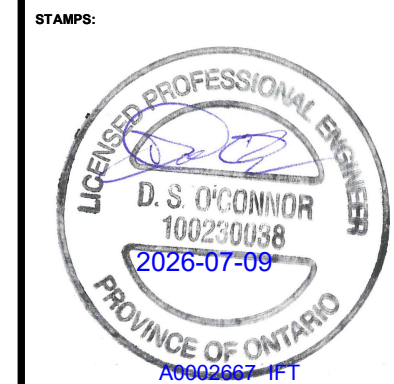


1. SALVAGE ANY EXISTING LED LUMINAIRES LOCATED IN THE BUILDING, TO BE TURNED OVER TO THE OWNER AT THE END OF THE PROJECT.
2. DISCONNECT AND REMOVE LIGHT FIXTURES AS NOTED C/W ASSOCIATED LIGHTING CONTROLS, CONDUIT AND WIRING BACK TO SOURCE. RETAIN LIGHTING CIRCUITS FOR REUSE.

1. DISCONNECT AND REMOVE 120/208V SWITCHBOARD IN MAIN ELECTRICAL ROOM. DISCONNECT ALL WIRING TO THE ROOMS AND MAIN FEEDER TO BE REUSED. REFER TO SINGLE LINE DIAGRAM FOR MORE INFORMATION.
2. DISCONNECT AND REMOVE ALL SUITE LIGHTING FOR ALL DWELLING UNITS CO-GEN ASSOCIATED LIGHTING CONTROLS. PRESERVE EXISTING CIRCUITS AND CABLEING FOR RE-USE. REFER TO DETAIL 3 ON DRAWING FOR ELECTRICAL, SUITE LIGHTING AND CO-GEN EQUIPMENT BAY TO SOURCE.
3. DISCONNECT AND REMOVE ALL COMMON AREA AND SERVICE SPACE LIGHTING. PRESERVE EXISTING CONDUIT, CABLEING, AND BREAKERS FOR RE-USE.
4. DISCONNECT AND REMOVE EXISTING STAIRWELL LIGHTING. PRESERVE EXISTING CIRCUITS FOR RE-USE. PRESERVE EXISTING LED LIGHTING AND WIRING TO OWNER AFTER END OF CONSTRUCTION.
5. EXISTING DISTRIBUTION PANELS LOCATED ON THE 3RD FLOOR TO REMAIN.
6. DISCONNECT AND REMOVE ELECTRICAL CONNECTION, CO-GEN CONDUIT AND WIRING FOR CO-GEN CONTROL PANEL AND ASSOCIATED CO-GEN EQUIPMENT BACK TO SOURCE. COORDINATE WITH MECHANICAL FOR REMOVAL.



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CONSULTANT(S):

ENGINEER:

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www.cima.ca

CLIENT:

LANARK COUNTY
LANARK DEEP 24 BOURKE ST.
SMITHS FALLS, ON, K7A 3L9

PROJECT NAME:

LANARK DEEP ENERGY RETROFIT DESIGN

SHEET TITLE:

LIGHTING AND POWER DEMOLITION PLAN

DISCIPLINE:

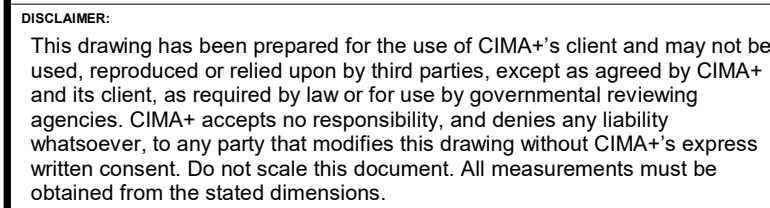
ELECTRICAL

DRAFTER:	M.T.	SCALE:	AS NOTED
DESIGNER:	M.T.	DATE:	2026/07/09
APPROVER:	D.O.	CHECKER:	D.O.
PROJECT No:	A0002657	DRAWING No:	E100
SHEET No:	of		

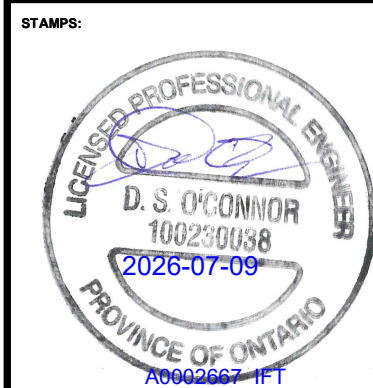


1. PROVIDE NEW LED LIGHT FIXTURES AS NOTED AND REUSE EXISTING LIGHTING CIRCUITS AND LOCATION. REFER TO LIGHTING SCHEDULE FOR FURTHER DETAILS.
2. LIGHTING IN DWELLING UNITS TO BE FED FROM LOCAL SUITE PANEL. REFER TO PANEL SCHEDULES FOR FURTHER DETAILS.
3. UNLESS OTHERWISE NOTED ALL WIRING TO 312WAG+GND IN 21mm EMT CONDUIT.
4. COORDINATE WITH MECHANICAL DRAWING OF EXACT LOCATION OF NEW MECHANICAL EQUIPMENT PRIOR TO INSTALLATION.

1. PROVIDE NEW 1200A, 120/208V SWITCHBOARD C/W BUILT IN HYDRO METER IN MAIN ELECTRICAL ROOM. RECONNECT EXISTING BRANCH FEEDERS AND MAIN FEEDER. REFER TO PANEL SCHEDULE AND NEW ELECTRICAL PANEL SCHEDULE FOR MORE INFORMATION.
2. PROVIDE NEW LIGHT FIXTURES C/W ASSOCIATED LIGHTING CONTROLS AS NOTED IN ALL SUITES FROM GND TO 5TH FLOOR. CONNECT TO LOCAL SUTLE PANEL. REFER TO LIGHTING SCHEDULE FOR MORE INFORMATION.
3. PROVIDE 100A-208V ELECTRICAL CONNECTION FOR THE SOURCE CIRCULATION PUMP AS INDICATED. REFER TO MECHANICAL SCHEDULE FOR MORE INFORMATION.
4. PROVIDE 20A-208V ELECTRICAL CONNECTION FOR THE FILTER PUMP AS INDICATED. REFER TO MECHANICAL SCHEDULE FOR MORE INFORMATION.
5. PROVIDE 16A-120V ELECTRICAL CONNECTION TO PANEL F FOR THE LOAD CIRCULATION PUMP AS INDICATED. REFER TO MECHANICAL SCHEDULE FOR MORE INFORMATION.
6. PROVIDE 15A-120V ELECTRICAL CONNECTION FOR THE CYCLOCIRCULATION PUMP AS INDICATED. REFER TO MECHANICAL SCHEDULE FOR MORE INFORMATION.
7. PROVIDE NEW SURFACE MOUNTED ELECTRICAL PANEL RATED AT 400A, 120/208V, 3PH, 4W. REFER TO NEW SINGLE LINE DIAGRAM AND PANEL SCHEDULE FOR MORE INFORMATION.
8. PROVIDE 16A-120V ELECTRICAL CONNECTION FOR THE TYPICAL FAN/CORR. FCXY UNIT C/W CONDENSATE PUMP. PROVIDE SUTLE PANEL SUTLE PANEL, 120/240V AS NOTED IN SINGLE LINE DISCONNECT SWITCH. REFER TO PANEL AND MECHANICAL SCHEDULE FOR MORE INFORMATION. COORDINATE WITH MECHANICAL SCHEDULE FOR FINAL LOADS. PROVIDE THE FOLLOWING INFORMATION FOR THE PROGRAMMED SCHEDULE TYPICAL, SUTLE PAN FCOL UNIT NOMENCLATURE NOTED BELOW. EXAMPLE:
 - X- FLOOR NUMBER
 - Y- SUTLE NUMBER
9. LIGHT FIXTURE TYPE L2 AS INDICATED IN STAIRWELLS ARE TO BE POWERED ON 24/7. INTEGRATED OCCUPANCY SENSOR, SHALL AUTOMATICALLY DIM FIXTURES TO 50% LIGHT OUTPUT WHEN STAIRWELL IS UNOCCUPIED AND RETURN TO FULL TURN UPPOINT OCCUPANCY DETECTION. REFER TO LIGHTING SCHEDULE FOR MORE INFORMATION.
10. LIGHT FIXTURE TYPE L2 TO BE FED FROM PANEL B CIRCUIT U 14, 18 & 20 FOR TYPICAL CORRIDOR FROM THE 2ND FLOOR TO 5TH FLOOR. ALL INTEGRATED OCCUPANCY SENSORS ASSOCIATED WITH THE CORRIDOR SHALL COMMON ON THE 2ND FLOOR. THE PROGRAMMED SCHEDULE THAT ACTIVATION ANY SINGLE OCCUPANCY SENSOR SHALL TURN ON ALL CORRIDOR LIGHT FIXTURES WITHIN THE LIGHTING ZONE.
11. EXISTING DISTRIBUTION PANELS 1 LOCATED ON THE 3RD FLOOR TO REMAIN.
12. PROVIDE NEW LIGHTING CONTROLS AS NOTED. REUSE EXISTING CONTROL WIRING TO FACILITATE LIGHTING INSTALLATION. REFER TO LIGHTING CONTROL SCHEDULE FOR MORE INFORMATION.
13. PROVIDE SUSPENDED TYPE L2 LIGHT FIXTURES IN MAIN ELECTRICAL ROOM TO FACILITATE MECHANICAL PIPING INSTALLATION. COORDINATE WITH MECHANICAL DRAWINGS FOR MORE INFORMATION.
14. PROVIDE 100A-208V LOCAL DISCONNECT SWITCH TO FEED EXTERIOR EVCS C/W HYDRO METER FED FROM SWITCHBOARD. REFER TO NEW SINGLE LINE DIAGRAM AND SUTLE PAN FOR MORE INFORMATION.
15. NEW FRACTIONAL HORSEPOWER EXHAUST FAN, CIRCUIT FROM EXISTING ADJACENT EXHAUST FAN.
16. NEW LED LUMINAIRES AND SWITCHES IN ALL SUITES, SALVAGE EXISTING AND TURN OVER TO OWNER (TYPICAL).



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CONSULTANT(S)

ENGINEER:

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CLIENT:

LANARK DEEP 24 BOURKE ST.
SMITHS FALLS, ON, K7A 3L9

PROJECT NAME:

LANARK DEEP ENERGY RETROFIT DESIGN

SHEET TITLE:

LIGHTING AND POWER RENOVATION PLAN

DISCIPLINE:

ELECTRICAL

DRAFTER:	M.T.	SCALE:	AS NOTED
DESIGNER:	M.T.	DATE:	2026/07/09
APPROVER:	D.O.	CHECKER:	D.O.
PROJECT No:	A0002667	DRAWING No:	E200
SHEET No:	of		

Project Number: A001540 Panel Identification: Panel 'EV' Location: MAIN ELEC...				Date: June 29, 2026 Main Breaker: MLO Supply Volts: 120/208, 3PH, 4W Bus Rating (A): 225 kAIC: 14 Installation: SURFACE							
DESCRIPTION	WATTS	AMP.	CIR.	A	B	C	CIR.	AMP.	WATTS	DESCRIPTION	
EV CHARGER #1 (A+B)	4000	50	1	⎯	*	⎯	2	15		SPARE	
	4000		3	⎯	⎯	*	⎯	4	15	SPARE	
	4000		5	⎯	⎯	⎯	*	6	15	SPARE	
EV CHARGER #2 (A+B)	4000	50	7	⎯	*	⎯	8	15		SPARE	
	4000		9	⎯	⎯	*	⎯	10	20	SPARE	
			11	⎯	⎯	⎯	*	12	20	SPARE	
SPARE		50	13	⎯	*	⎯	14	20		SPARE	
			15	⎯	⎯	⎯	*	⎯	16		SPACE
			17	⎯	⎯	⎯	*	⎯	18		SPACE
SPACE			19	⎯	*	⎯	20			SPACE	
SPACE			21	⎯	⎯	*	22			SPACE	
SPACE			23	⎯	⎯	⎯	*	24		SPACE	
SPACE			25	⎯	*	⎯	26			SPACE	
SPACE			27	⎯	⎯	*	28			SPACE	
SPACE			29	⎯	⎯	⎯	*	30		SPACE	
SPACE			31	⎯	*	⎯	32			SPACE	
SPACE			33	⎯	⎯	*	34			SPACE	
SPACE			35	⎯	⎯	⎯	*	36		SPACE	
SPACE			37	⎯	*	⎯	38			SPACE	
SPACE			39	⎯	⎯	⎯	*	40		SPACE	
SPACE			41	⎯	⎯	⎯	*	42		SPACE	
Total Phase A	8.00	kW		<GF> = Ground fault detector							
Total Phase B	4.00	kW		<k> = Breaker locking device							
Total Phase C	4.00	kW		Total Panel Load : 16.00 kW							

REFERENCE NOTES:

Project Number: A0002667 Panel Identification: Panel 'F' Location: MAIN ELEC...				Date: June 29, 2026 Main Breaker: MLO Supply Volts: 120/208, 3PH, 4W Bus Rating (A): 400 kAIC: 14 Installation: SURFACE						
DESCRIPTION	WATTS	AMP.	CIR.	A	B	C	CIR.	AMP.	WATTS	DESCRIPTION
GSHP-1 WATER SOURCE PUMP	8984.005	100	1	⎯	⎯	⎯	⎯	2	8984.005	GSHP-2 AIR COOLED PUMP
	8984.005		3	⎯	⎯	⎯	⎯	4	8984.005	
	8984.005		5	⎯	⎯	⎯	⎯	6	8984.005	
SOURCE PUMP GHP-1	2902.7...	30	7	⎯	⎯	⎯	⎯	8	2902.7...	SOURCE PUMP GHP-2
	2902.7...		9	⎯	⎯	⎯	⎯	10	2902.7...	
	2902.7...		11	⎯	⎯	⎯	⎯	12	2902.7...	
LOAD PUMP LHP-1	791.648	15	13	⎯	⎯	⎯	⎯	14	791.648	LOAD PUMP LHP-2
	791.648		15	⎯	⎯	⎯	⎯	16	791.648	
	791.648		17	⎯	⎯	⎯	⎯	18	791.648	
SECONDARY GLYCOL PUMP SP-1	791.648	15	19	⎯	⎯	⎯	⎯	20	791.648	SECONDARY GLYCOL PUMP SP-2
	791.648		21	⎯	⎯	⎯	⎯	22	791.648	
	791.648		23	⎯	⎯	⎯	⎯	24	791.648	
SPARE		15	25	⎯	⎯	⎯	⎯	26	1589.2...	FILTER PUMP FP-1
SPARE		15	27	⎯	⎯	⎯	⎯	28	1589.2...	
SPARE		15	29	⎯	⎯	⎯	⎯	30	1589.2...	
SPARE		15	31	⎯	⎯	⎯	⎯	32		SPARE
SPACE			33	⎯	⎯	⎯	⎯	34	15	
SPACE			35	⎯	⎯	⎯	⎯	36		
SPACE			37	⎯	⎯	⎯	⎯	38		SPACE
SPACE			39	⎯	⎯	⎯	⎯	40		SPACE
SPACE			41	⎯	⎯	⎯	⎯	42		SPACE
Total Phase A	28.53	kW								
Total Phase B	28.53	kW								
Total Phase C	28.53	kW								
				Total Panel Load :		85.59		kW		
				<GFI>		=		Ground fault detector		
				<k>		=		Breaker locking device		

Project Number: A0002667 Panel Identification: Panel 'B' Location: MAIN ELEC...				Date: June 29, 2026 Main Breaker: 225A Supply Volts: 120/208, 3PH, 4W Installation: SURFACE							
DESCRIPTION	WATTS	AMP.	CIR.	A	B	C	CIR.	AMP.	WATTS	DESCRIPTION	
CIRCULATING PUMP		15	1	⎯	⎯	⎯	⎯	2	20	COMMON RM. HEAT	
			3	⎯	⎯	*	⎯	⎯			4
SPACE			5	⎯	⎯	⎯	*	⎯	⎯	LIGHTS COM. STOR. FR. ENTRANCE *	
*LIGHTING PARKING LOT		15	7	⎯	⎯	*	⎯	⎯	8	15	COR. LIGHTS FR. OF ELEV. & EXIT LIGHTS *
*LIGHTING COMMON RM.		15	9	⎯	⎯	⎯	*	⎯	10	15	COR. LIGHTS & PLUGS*
*LIGHTS GARBAGE, STORAGE & WASHROOM		15	11	⎯	⎯	⎯	*	⎯	12	15	HALLWAY EMERGENCY LIGHTING*
			13	⎯	⎯	*	⎯	⎯	14	15	2ND FLOOR COR. LIGHTS*
FRIDGE SPLIT		15	15	⎯	⎯	⎯	*	⎯	16	15	3RD FLOOR COR. LIGHTS & PLUGS*
COMMON PLUG			17	⎯	⎯	⎯	*	⎯	18	15	3RD FLOOR COR. LIGHTS*
COMMON SPLIT		15	19	⎯	⎯	*	⎯	⎯	20	15	3RD FLOOR COR. LIGHTS*
IN USE		15	21	⎯	⎯	⎯	*	⎯	22	15	IN USE
HEATER GARBAGE ROOM		15	23	⎯	⎯	⎯	*	⎯	24	15	OUTSIDE CHILLER
			25	⎯	⎯	*	⎯	⎯	26		
PARKING PLUGS		15	27	⎯	⎯	⎯	*	⎯	28	15	PARKING PLUGS
			29	⎯	⎯	*	⎯	⎯	30		
Total Phase A	0.00	kW		<GFI> = Ground fault detector							
Total Phase B	0.00	kW		<k> = Breaker locking device							
Total Phase C	0.00	kW		Total Panel Load : 0.00 kW							
REFERENCE NOTES: * REUSE EXISTING BREAKER AS INDICATED TO FACILITATE NEW LIGHT FIXTURE INSTALLATION IN COMMON AREAS. CONTRACTOR TO VERIFY BREAKERS PRIOR TO DISCONNECTION.											

REFERENCE NOTES:

* REUSE EXISTING BREAKER AS INDICATED TO FACILITATE NEW LIGHT FIXTURE INSTALLATION IN COMMON AREAS. CONTRACTOR TO VERIFY BREAKERS PRIOR TO DISCONNECTION.

Project Number: A0002667 Panel Identification: Panel 'A' Location: MAIN ELEC...				Date: June 29, 2026 Main Breaker: 225A Supply Volts: 120/208, 3PH, 4W Installation: SURFACE						
DESCRIPTION	WATTS	AMP.	CIR.	A	B	C	CIR.	AMP.	WATTS	DESCRIPTION
TELEPHONE PLUG		15	1	⎯	*	⎯	2	15		CO ALARM LIGHTS ELEC RM*
CIRCULATING PUMP		15	3	⎯	⎯	*	4	15		INTERCOM
CURRENT METER		15	5	⎯	⎯	⎯	6	15		EXIT LIGHTS STAIRWELL EMERGENCY LIGHTING*
SPACE			7	⎯	*	⎯	8	15		OUTSIDE LIGHTING*
HEAT FRONT/ENTR.		15	9	⎯	⎯	⎯	10	15		STAIR LIGHTING*
			11	⎯	⎯	*	12	15		STAIR LIGHTING*
HEAT FR. OF ELEV. MAIL RM		15	13	⎯	⎯	⎯	14	15		EXHAUST FAN
			15	⎯	*	⎯	16			
			17	⎯	⎯	⎯	18			
OUTDOOR STOR. PANEL		15	19	⎯	*	⎯	20	15		CORRIDOR HEATER
FAN DUCT HEATER		15	21	⎯	⎯	*	22			
TELEPHONE PLUG		15	23	⎯	⎯	⎯	24	20		FAN FORCED HEATER
EXCESS PRESSURE PUMP		15	25	⎯	*	⎯	26	15		IN USE
			27	⎯	⎯	*	28			
STOVE COMMON RM.		15	29	⎯	⎯	⎯	30	15		BOILER
			29	⎯	⎯	*				
Total Phase A	0.00	kW		<GFI>			=	Ground fault detector		
Total Phase B	0.00	kW		<k>			=	Breaker locking device		
Total Phase C	0.00	kW		Total Panel Load :				0.00	kW	

REFERENCE NOTES:

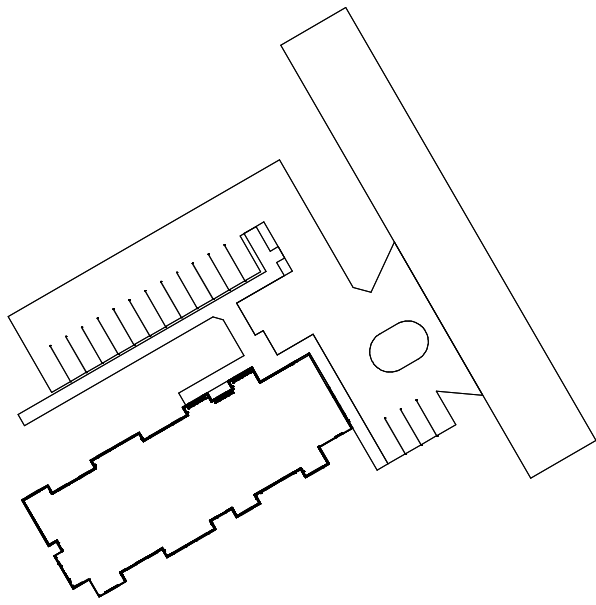
* REUSE EXISTING BREAKER AS INDICATED TO FACILITATE NEW LIGHT FIXTURE INSTALLATION IN COMMON AREAS. CONTRACTOR TO VERIFY BREAKERS PRIOR TO DISCONNECTION.

Project Number: A0002667					Date: July 9, 2026				
Panel Identification: SUITE PANEL					Main Breaker: 70A				
Location: TYPICAL SUITES (GND TO 5TH FLOOR)					Supply Volts: 120/208, 3PH, 4W				
					Installation: SURFACE				
DESCRIPTION	WATTS	AMP.	CIR.	A B C	CIR.	AMP.	WATTS	DESCRIPTION	
SPACE			1	⎯ ⎯ ⎯ ⎯ ⎯	9	15		STORAGE RM FCU**	
			2	⎯ ⎯ ⎯ ⎯ ⎯	10				
STOVE	40		3	⎯ ⎯ ⎯ ⎯ ⎯	11	40		HEATER	
			4	⎯ ⎯ ⎯ ⎯ ⎯	12	15		LIGHTS & REC *	
SPLIT	15	4		⎯ ⎯ ⎯ ⎯ ⎯	13	15		LIGHTS & REC*	
REC.	15	5		⎯ ⎯ ⎯ ⎯ ⎯	14	15		SMOKE DETECTOR	
SPLIT	15	6		⎯ ⎯ ⎯ ⎯ ⎯	15	15		LIGHTS & REC*	
REC.	15	7		⎯ ⎯ ⎯ ⎯ ⎯	16	15		LIGHTS & REC*	
*LIGHTS & REC		15	8	⎯ ⎯ ⎯ ⎯ ⎯					
Total Phase A		kW			<GFI>			= Ground fault detector	
Total Phase B		kW			<k>			= Breaker locking device	
Total Phase C		kW			Total Panel Load :	0.00	kW		

REFERENCE NOTES:

* REUSE EXISTING BREAKER AS INDICATED TO FACILITATE NEW SUITE LIGHT FIXTURE INSTALLATION. CONTRACTOR TO VERIFY BREAKERS PRIOR TO DISCONNECTION.

** PROVIDE NEW 15A-1P BREAKER TO FACILITATE NEW FAN COIL UNIT C/W CONDENSOR PUMP FOR ALL TYPICAL SUITE STORAGE ROOM. REFER TO MECHANICAL DRAWING FAN COIL UNIT SCHEDULE.



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LANARK DEEP 24 BOURKE ST.
SMITHS FALLS, ON, K7A 3L9

PROJECT NAME:

LANARK DEEP ENERGY RETROFIT
DESIGN

SHEET TITLE:

PANEL SCHEDULES

DISCIPLINE:

ELECTRICAL

DRAFTER:	M.T.	SCALE:	AS NOTED
DESIGNER:	M.T.	DATE:	2026/07/09
APPROVER:	D.O.	CHECKER:	D.O.
PROJECT No:	A0002667	DRAWING No:	E300
SHEET No:	of		

LIGHTING SCHEDULE									
TYPE	CATALOGUE NO.	DESCRIPTION	SIZE	LOAD	LUMENS	CRI	COLOUR TEMP.	VOLTAGE	FINISH
A	PSM-2P40P-32-TWBT OSI-PIR108E	FLAT LED PANEL RECESSED MOUNTED T-BAR WITH EXTRUDED ALUMINUM FRAM WITH WHITE LENS. WITH 0-10V DIMMING CAPABILITIES. 5 YEAR WARRANTY	2' X 4'	32W	5000	80	4000K	120	WHITE
B	WS-W190109	INDOOR WALL SCONCE FIXTURE RECTANGULAR FORM WITH ACRYLIC SHADE DIFFUSER CONSTRUCTED WITH DIE CAST ALUMINUM. 5 YEAR WARRANTY	6" X 3 3/16" X 9"	26W	1375	90	4000K	120	BLACK
C	WS-240818-CS-BN	INDOOR WALL VANITY LIGHT FIXTURE RECTANGULAR FORM WITH ACRYLIC SHADE DIFFUSER CONSTRUCTED WITH DIE CAST ALUMINUM. 5 YEAR WARRANTY	18" X 2 1/2" X 1 7/8"	20W	1300	90	4000K	120	BLACK
D	WS-180414-30-BN	INDOOR WALL VANITY LIGHT FIXTURE WITH POLYCARBONATE DIFFUSER AND NICKEL PLATED STEEL. 5 YEAR WARRANTY	2 1/2" X 14"	20W	1000	90	3500K	120	BRUSHED NICKEL
E	FM-306-9CS-WT	CEILING MOUNTED DIE CAST ALUMINUM WITH WHITE ACRYLIC HOUSING. RATED FOR WET LOCATION WITH WHITE POWDERED FINISH.	6" DIA	15W	950	90	4000K	120	WHITE
F	LPW32 2L 730 4 UNV WIAPLB BK	EXTERIOR LARGE WALL SCONCE DIE CAST ALUMINUM HOUSING WITH INTEGRATED HEAT SINK AND INTEGRATED WIRELESS OCCUPANCY SENSOR DEVICE. IP65 RATED WITH FROSTED ACRYLIC LENS. 5 YEAR WARRANTY	12" X 9.2" X 6.2"	10W	2500	70	3000K	120	BLACK
G	LPGC A02 830 5SQ SUR UNV WIAPLW UPL WH	EXTERIOR LOW BAY LIGHT FIXTURE DIE CAST ALUMINUM HOUSING UV RESISTANT WITH INTEGRATED HEAT SINK. AND INTEGRATED PHOTOCONTROL DEVICE. IP66 RATED WITH FROSTED ACRYLIC LENS. 5 YEAR WARRANTY & 0-10V DIMMING DRIVER	15" DIA	11W	4000	80	3000K	120	BLACK
H	LPA A03 730 T4 UNV WIAPL BK	LED SINGLE FIXTURES FOR PARKING WITH A MOUNTING HEIGHT OF 10FT ON A CYLINDER COLE POLE. DIE CAST ALUMINUM HOUSING WITH BUILT IN INTEGRATED WIRELESS OCCUPANCY SENSOR DEVICE. 5 YEAR WARRANTY SUITABLE FOR WET LOCATIONS AND DARK SKY COMPLIANT	17.4"X8.5"X7.7"	78	6000	70	3000K	120	BLACK
L1	SSM-48P45-32/TWBTS	SURFACE MOUNTED LED STRIPLIGHT. SLIM COMPACT HOUSING WITH TRANSPARENT END CAPS. 24 GAUGE SEMI GLOSS STEEL C/W FROSTED LENS. 0-10V DIMMING CAPABILITIES. 2.5KV SURGE PROTECTION. INTEGRATED OCCUPANCY SENSOR ON/OFF CAPABILITIES. UL LISTED FOR DAMP LOCATION. 5 YEAR WARRANTY	48"	45W	5895	80	4000K	120	WHITE
L2	SSM-48P45-32/TWBTS	SURFACE MOUNTED LED STRIPLIGHT. SLIM COMPACT HOUSING WITH TRANSPARENT END CAPS. 24 GAUGE SEMI GLOSS STEEL C/W FROSTED LENS. 0-10V DIMMING CAPABILITIES. 2.5kv SURGE PROTECTION. INTEGRATED OCCUPANCY SENSOR ON/OFF CAPABILITIES. UL LISTED FOR DAMP LOCATION. 5 YEAR WARRANTY	48"	45W	5895	80	4000K	120	WHITE

NOTES:
1. COMMON AREA AND EXTERIOR FIXTURES SHALL BE PROGRAMMABLE AND LINKED BY ONBOARD CONTROLS. COORDINATE WITH MANUFACTURER AND PROGRAM AS REQUIRED.

SEQUENCE OF OPERATIONS:

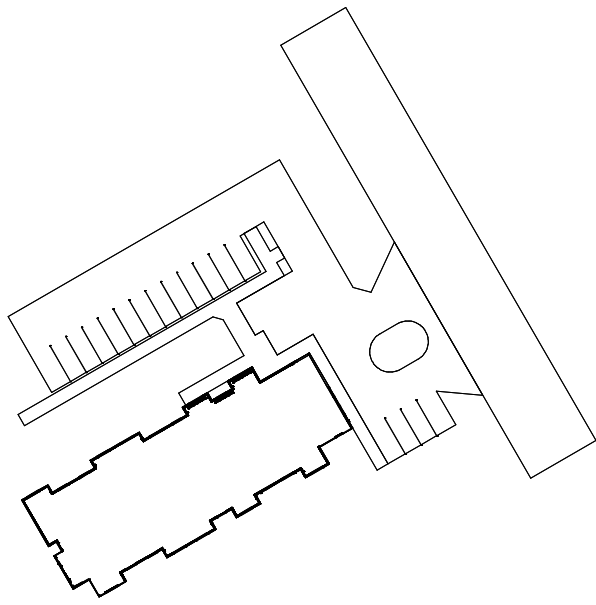
A) EXTERIOR
1. FULL INTENSITY FROM ASTRONOMIC DUSK TO 2000 AND 0500 TO DAWN
2. DIM TO 70% FROM 2000 TO 0000 AND TO 30% FROM 0000 TO 0500
3. FULL INTENSITY IN ZONE WHEN TRIGGERED BY MOTION SENSOR
4. FULL INTENSITY OUTSIDE NORMAL HOURS WHEN TRIGGERED BY PHOTOCELL

B) INTERIOR
1. 50% INTENSITY FROM 0700 TO 2200 IN CORRIDORS, STAIRWELLS
2. 30% INTENSITY FROM 2200 TO 0700 IN CORRIDORS, STAIRWELLS
3. 100% INTENSITY FOR ENTIRE ZONE WHEN OCCUPANCY SENSORS IN CORRIDORS AND STAIRWELL ACTUATE
4. 0% INTENSITY IN ENCLOSED ROOMS WHEN UNOCCUPIED ENCLOSED ROOMS ACTUATE INDEPENDENTLY
4. 100% INTENSITY IN ENCLOSED ROOMS WHEN OCCUPIED.

MECHANICAL EQUIPMENT SCHEDULE													
ID	DESCRIPTION	LOCATION	HP	MCA	FLA	MOP	VOLTAGE	PHASE	FEEDER	CONDUIT	SOURCE PANEL	CCT#	NOTES
GSHP-1	WATER SOURCE REVERSIBLE HEAT PUMP	MECHANICAL ELECTRICAL ROOM	26	74.9	-	100A-3P	208	3	3#3AWG+1#8AWG GND	41mm	PANEL F	1,3,5	PROVIDE LOCAL NEMA 3R RATED LOCKABLE DISCONNECT SWITCH C/W INTERCONNECTION TO NEW WATER PUMP UNITS BY DIV. 26
GSHP-2	AIR COOLED REVERSIBLE HEAT PUMP	MECHANICAL ELECTRICAL ROOM	26	74.9	-	100A-3P	208	3	3#3AWG+1#8AWG GND	41mm	PANEL F	2,4,6	PROVIDE LOCAL NEMA 3R RATED LOCKABLE DISCONNECT SWITCH C/W INTERCONNECTION TO NEW WATER PUMP UNITS BY DIV. 26
GHP-1	PRIMARY GSHP SOURCE CIRCULATION PUMP	MECHANICAL ELECTRICAL ROOM	7.5	-	24.2	30A-3P	208	3	3#10AWG+1#12AWG GND	35mm	PANEL F	7,9,11	PROVIDE MOTOR STARTERS AND LOCAL DISCONNECT SWITCH.VFD SUPPLIED BY MECHANICAL, INSTALLED BY ELECTRICAL. COORDINATE WITH MECHANICAL AND MAKE FINAL CONNECTIONS AS REQUIRED
GHP-2	PRIMARY GSHP SOURCE CIRCULATION PUMP	MECHANICAL ELECTRICAL ROOM	7.5	-	24.2	30A-3P	208	3	3#10AWG+1#12AWG GND	35mm	PANEL F	8,10,12	PROVIDE MOTOR STARTERS AND LOCAL DISCONNECT SWITCH.VFD SUPPLIED BY MECHANICAL, INSTALLED BY ELECTRICAL. COORDINATE WITH MECHANICAL AND MAKE FINAL CONNECTIONS AS REQUIRED
LHP-1	PRIMARY GSHP LOAD CIRCULATION PUMP	MECHANICAL ELECTRICAL ROOM	1	-	6.6	15A-3P	208	3	3#12AWG+1#12AWG GND	21mm	PANEL F	13,15,17	PROVIDE MOTOR STARTERS AND LOCAL DISCONNECT SWITCH.VFD SUPPLIED BY MECHANICAL, INSTALLED BY ELECTRICAL. COORDINATE WITH MECHANICAL AND MAKE FINAL CONNECTIONS AS REQUIRED
LHP-2	PRIMARY GSHP LOAD CIRCULATION PUMP	MECHANICAL ELECTRICAL ROOM	1	-	6.6	15A-3P	208	3	3#12AWG+1#12AWG GND	21mm	PANEL F	14,16,18	PROVIDE MOTOR STARTERS AND LOCAL DISCONNECT SWITCH.VFD SUPPLIED BY MECHANICAL, INSTALLED BY ELECTRICAL. COORDINATE WITH MECHANICAL AND MAKE FINAL CONNECTIONS AS REQUIRED
SP-1	SECONDARY GLYCOL CIRCULATION PUMP	MECHANICAL ELECTRICAL ROOM	1	-	4.6	15A-3P	208	3	3#12AWG+1#14AWG GND	21mm	PANEL F	19,21,23	PROVIDE MOTOR STARTERS AND LOCAL DISCONNECT SWITCH.VFD SUPPLIED BY MECHANICAL, INSTALLED BY ELECTRICAL. COORDINATE WITH MECHANICAL AND MAKE FINAL CONNECTIONS AS REQUIRED
SP-2	SECONDARY GLYCOL CIRCULATION PUMP	MECHANICAL ELECTRICAL ROOM	1	-	4.6	15A-3P	208	3	3#12AWG+1#14AWG GND	21mm	PANEL F	20,22,24	PROVIDE MOTOR STARTERS AND LOCAL DISCONNECT SWITCH.VFD SUPPLIED BY MECHANICAL, INSTALLED BY ELECTRICAL. COORDINATE WITH MECHANICAL AND MAKE FINAL CONNECTIONS AS REQUIRED
FP-1	FILTER PUMP	MECHANICAL ELECTRICAL ROOM	2	-	13.25	20A-3P	208	3	3#12AWG+1#14AWG GND	21mm	PANEL F	26,28,30	PROVIDE MOTOR STARTERS AND LOCAL DISCONNECT SWITCH.VFD SUPPLIED BY MECHANICAL, INSTALLED BY ELECTRICAL. COORDINATE WITH MECHANICAL AND MAKE FINAL CONNECTIONS AS REQUIRED
FCX-YY	FAN COIL UNIT	TYPICAL SUITE FROM GROUND TO 5TH FLOOR	-	15	1.3	15A-1P	120	1	3#12AWG+1#14AWG GND	BX CABLE	SUITE PANEL	12	PROVIDE LOCAL DISCONNECT SWITCH FOR EACH FAN COIL UNIT AT EACH SUITE LOCATED FROM GND FLOOR TO 5TH FLOOR. REFER TO FAN COIL UNIT SCHEDULE IN MECHANICAL DRAWINGS FOR FURTHER DETAILS

LIGHTING CONTROL SCHEDULE					
TYPE	SYMBOL	DESCRIPTION	VOLTAGE	FINISH	MODEL
OS		LINE VOLTAGE CEILING MOUNTED MOTION SENSOR WITH DUAL TECHNOLOGY WITH 360 DEGREE RANGE LENS. RADIAL COVERAGE TO BE 24FT RADIUS. 5 YEAR WARRANTY	120	WHITE	SWX-2212
S01		WALL SWITCH SENSOR WITH ON OFF CAPABILITIES WITH 5 YEAR WARRANTY	120	WHITE	SWX-101

LIGHTING SCHEDULE NOTES:
1. CONTRACTOR TO COORDINATE WITH SUPPLIER FOR LIGHTING CONTROLS INSTALLATION



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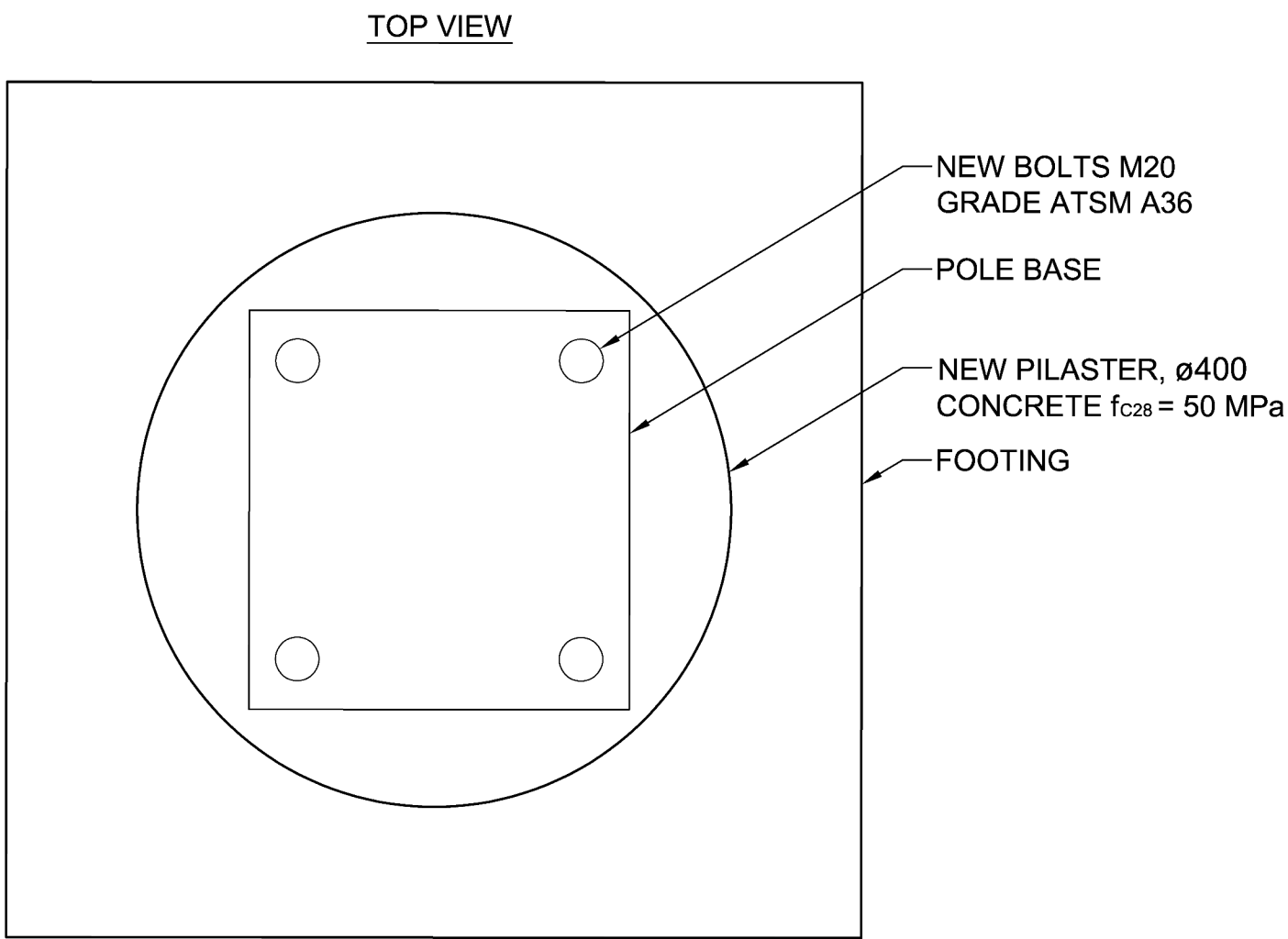
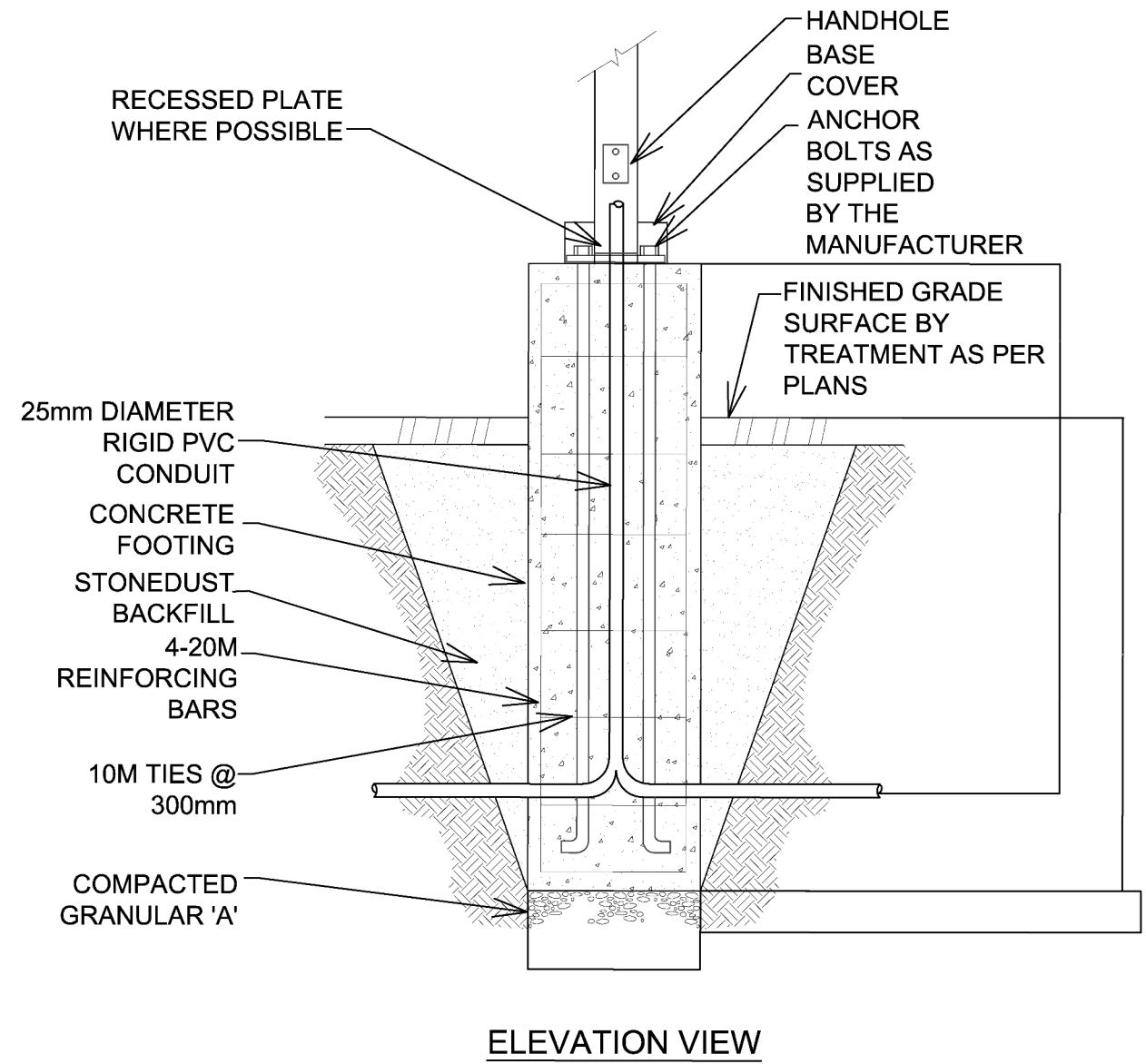
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LANARK DEEP ENERGY RETROFIT
DESIGN

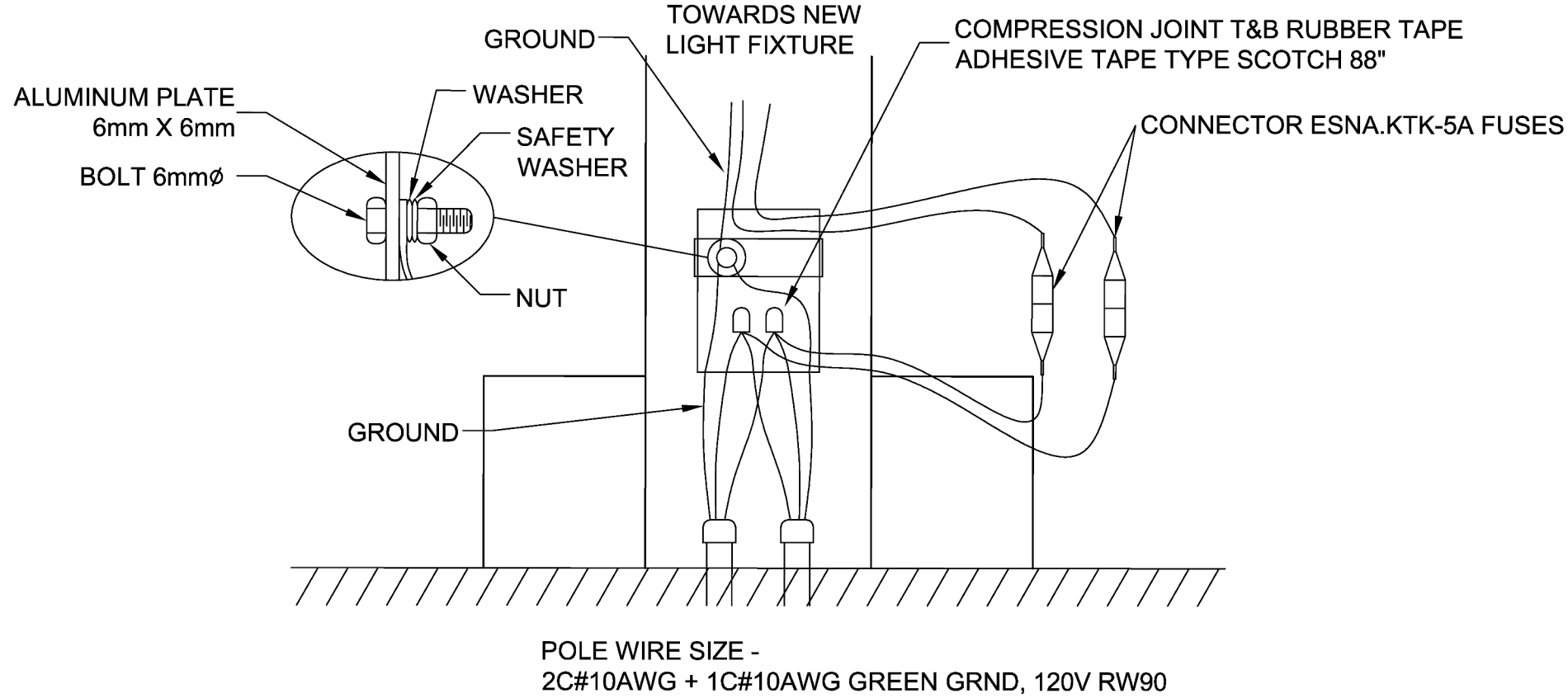
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SCHEDULES

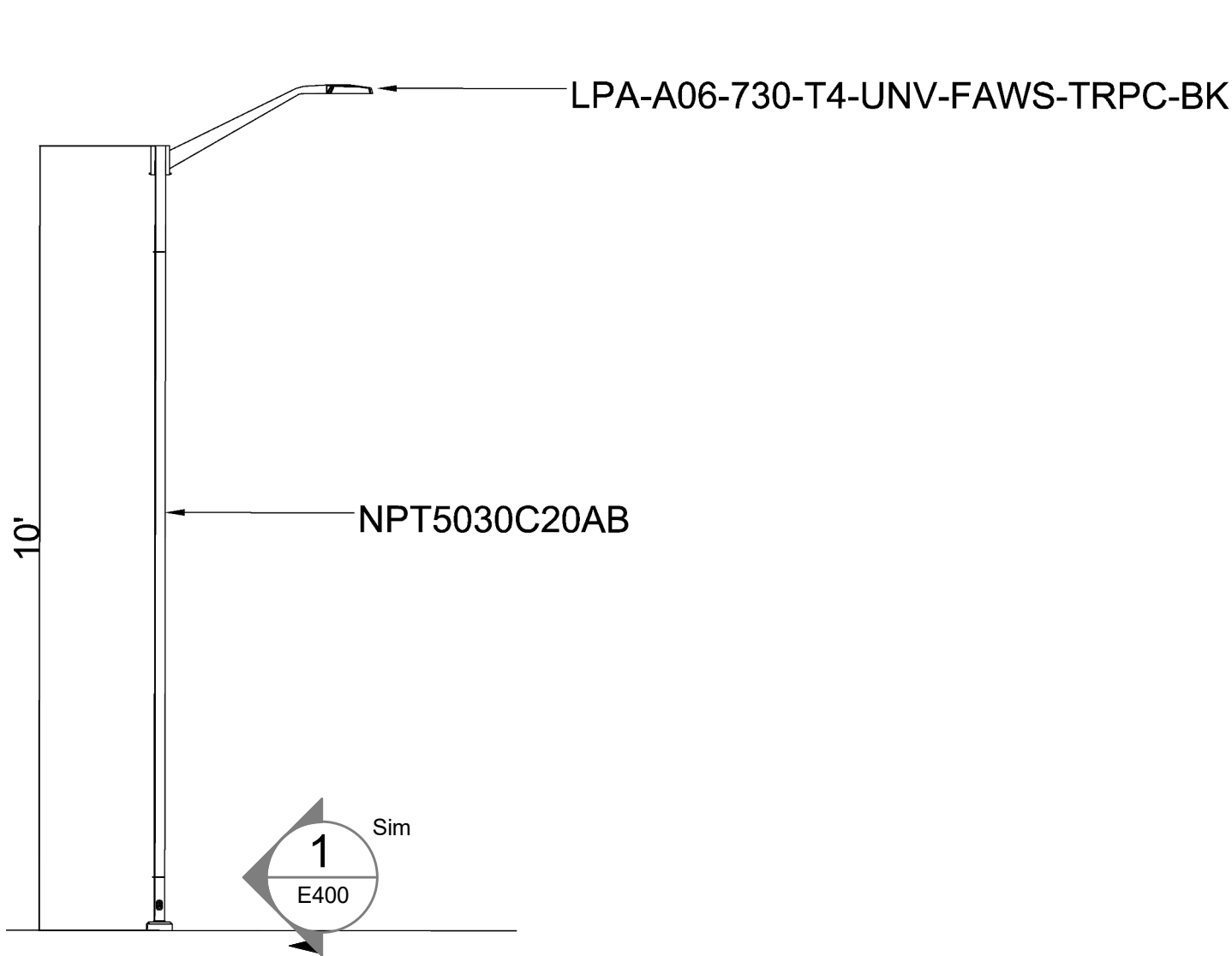
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DRAFTER:	M.T.	SCALE:	AS NOTED
DESIGNER:	M.T.	DATE:	2026/07/09
APPROVER:	D.O.	CHECKER:	D.O.
PROJECT No:	A0002667	DRAWING No: E301	
SHEET No:	of		



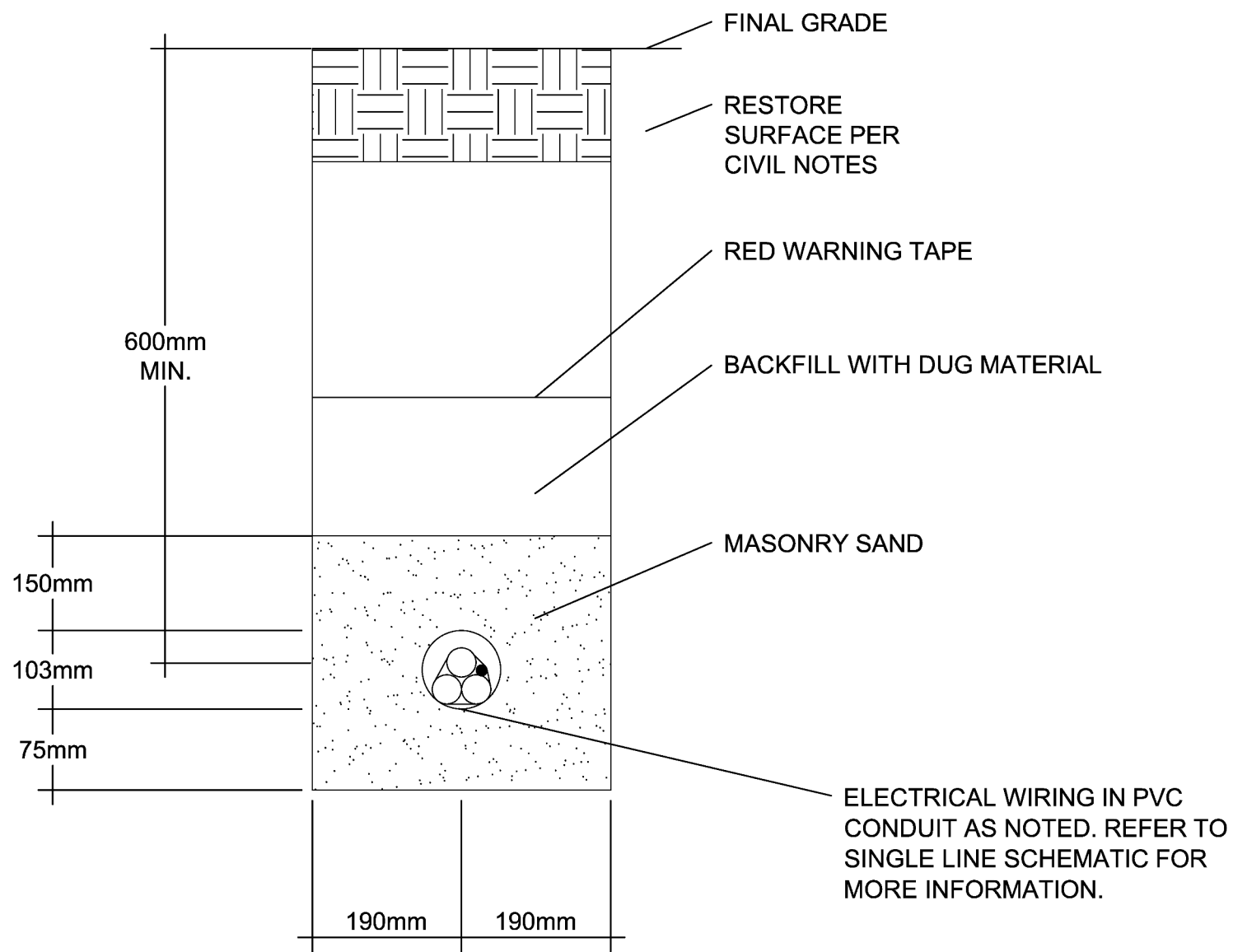
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SCALE: NTS



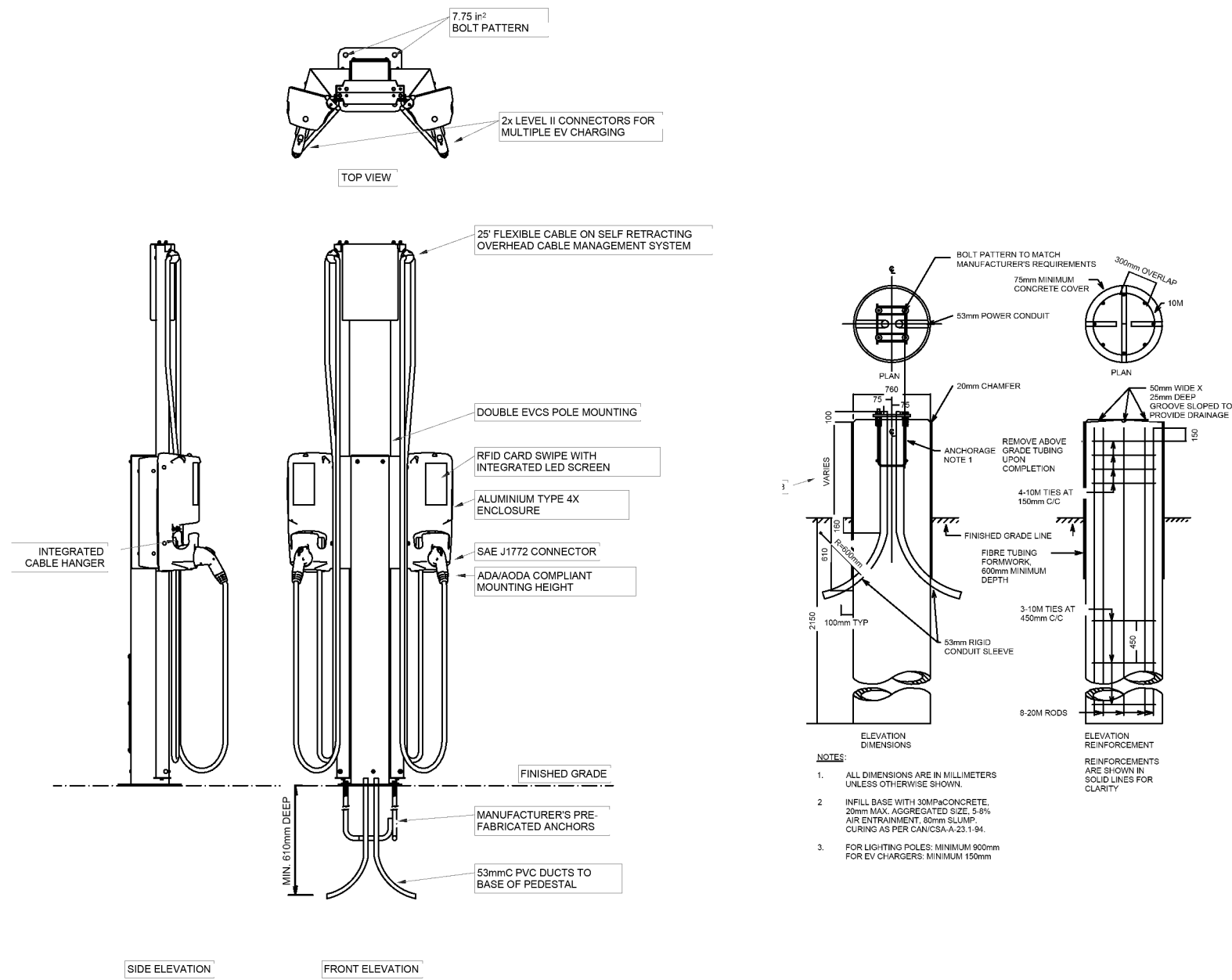
2 FUSE CONNECTION DETAIL
SCALE: NTS



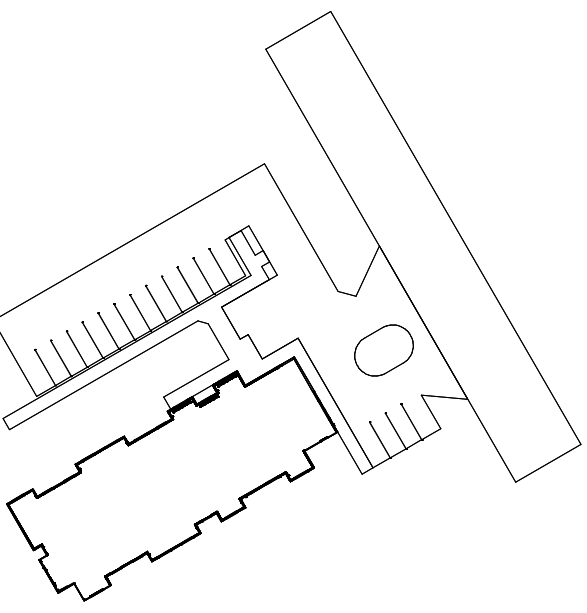
3 PARKING LOT LIGHT DETAIL
SCALE: NTS



4 TRENCHING DETAIL
SCALE: NTS



5 EV CHARGER DETAIL
SCALE: 1 : 10



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PROJECT NAME:
LANARK DEEP ENERGY RETROFIT DESIGN

SHEET TITLE:
DETAILS

DISCIPLINE: ELECTRICAL			
DRAFTER:	M.T.	SCALE:	AS NOTED
DESIGNER:	M.T.	DATE:	2026/07/09
APPROVER:	D.O.	CHECKER:	D.O.
PROJECT No:	A0002667	DRAWING No:	E400
SHEET No:	of		