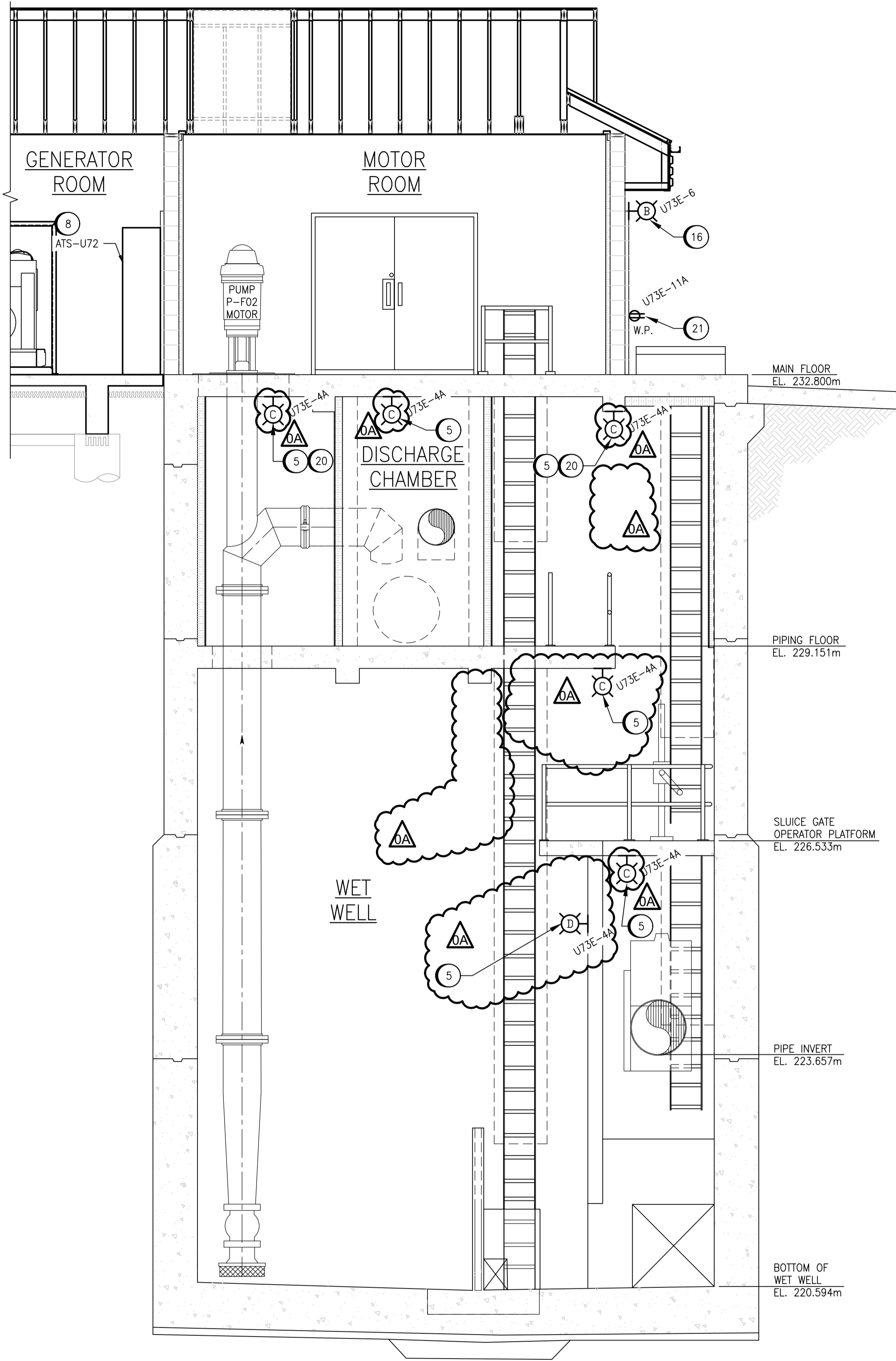


MAIN FLOOR PLAN EL. 232.800m
SCALE: 1 : 30



A-A SECTION VIEW
SCALE: 1 : 40

LEGEND:

- EXISTING
- NEW WORK
- (CO) CARBON MONOXIDE DETECTOR
- (ELB-U74) EMERGENCY LIGHTING BATTERY BANK
- (ELB-U74) BATTERY BANK IDENTIFIER
- (U73E-1) PANELBOARD CIRCUIT
- (EA) EMERGENCY LIGHTING REMOTE FIXTURE
- (ELB-U74) SOURCE BATTERY BANK

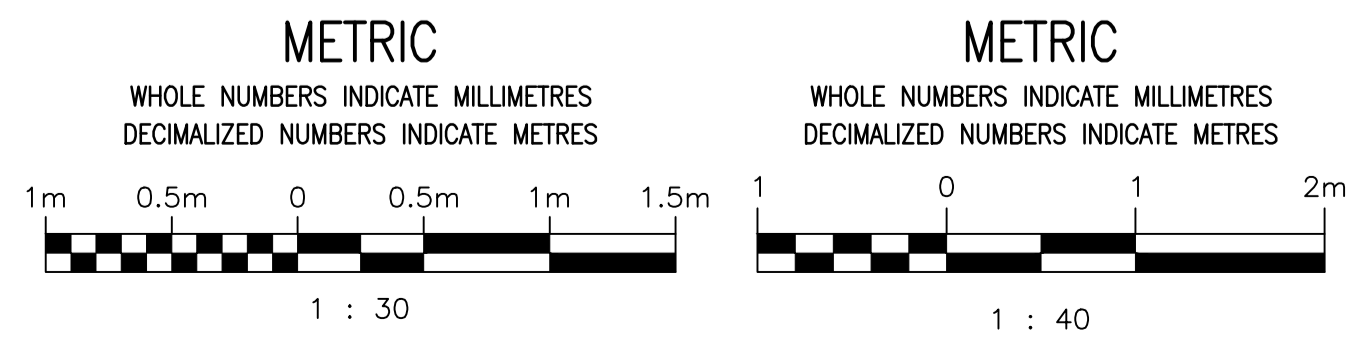
GENERAL NOTES:

1. NEW HVAC EQUIPMENT IS NOT SHOWN FOR CLARITY.
2. REFER TO DRAWING 1-0304U-M0001 AND 1-0304U-M0002 FOR HVAC EQUIPMENT LOCATIONS.
3. REFER TO DRAWING 1-0304U-E0017 FOR NEW UTILITY POWER AND TELEPHONE CABLING TO THE STATION.

SPECIFIC NOTES:

1. PROVIDE AND INSTALL NEW 600V STANDBY NATURAL GAS GENERATOR. ENGINE SHALL BE CONTINUOUSLY RATED FOR 150 KW. PROVIDE OVERSIZED ALTERNATOR RATED MINIMUM 200 KW. GENERATOR SHALL BE EQUIPPED WITH A MAIN 600V BREAKER ALONG WITH A 600V BREAKER TO FEED A TEMPORARY LOAD BANK.
2. PROVIDE AND INSTALL NEW MOTOR CONTROL CENTRE, MCC-U71.
3. PROVIDE AND INSTALL NEW MOTOR CONTROL CENTRE, MCC-U72E.
4. PROVIDE AND INSTALL NEW HOUSEKEEPING PAD FOR MCC-U71 AND MCC-U72E. PAD SHALL BE AT MINIMUM 89mm HIGH, 50mm INFRONT OF THE MCC AND EXTENDING 150mm PAST THE MCC LINEUP ON BOTH SIDES. EDGES SHALL BE CHAMFERED AT LEAST 20mm. PROVIDE REBAR RE-INFORCEMENT AND ANCHOR TO THE FLOOR. REFER TO DRAWING 1-0304U-E0008 FOR MCC DETAILS.
5. PROVIDE AND INSTALL NEW LED LUMINAIRES.
6. PROVIDE AND INSTALL NEW 600:120/208V TRANSFORMER, XFMR-U73E. PROVIDE NEW SUPPORTS SECURED TO THE CEILING FOR MOUNTING TRANSFORMER ABOVE PNL-U73E.
7. PROVIDE AND INSTALL NEW 120/240V PANELBOARD, PNL-U73E.
8. PROVIDE AND INSTALL NEW AUTOMATIC TRANSFER SWITCH, ATS-U72.
9. PROVIDE AND INSTALL NEW WATER SOLENOID VALVE.
10. PROVIDE AND INSTALL NEW DUPLEX RECEPTACLES AS SHOWN.
11. PROVIDE AND INSTALL NEW CEILING MOUNTED CARBON MONOXIDE DETECTOR.
12. PROVIDE AND INSTALL NEW TWO-POLE SWITCH.
13. PROVIDE AND INSTALL NEW TELEPHONE NETWORK INTERFACE DEVICE (NID).
14. PROVIDE AND INSTALL NEW EMERGENCY LIGHTING BATTERY BANK COMPLETE WITH EMERGENCY LIGHT IN THE MOTOR ROOM WITH THE BOTTOM OF THE ENCLOSURE NOT LESS THAN 2000mm ABOVE FINISHED FLOOR.
15. PROVIDE AND INSTALL NEW EMERGENCY LIGHTING REMOTE FIXTURE WITH THE BOTTOM OF THE FIXTURE NOT LESS THAN 2000mm ABOVE THE FINISHED FLOOR. INSTALL LOWER WET WELL LIGHT SUCH THAT BOTTOM OF THE FIXTURE IS NOT LESS THAN 5000mm ABOVE WET WELL BOTTOM.
16. PROVIDE AND INSTALL NEW OUTDOOR LED LIGHT FIXTURES. PROVIDE NEW STEEL PROTECTION FRAME.
17. PROVIDE AND INSTALL NEW EMERGENCY STOP PUSHBUTTON STATION.
18. PROVIDE AND INSTALL NEW LOAD-BREAK RATED DISCONNECT SWITCH. SWITCH SHALL BE CAPABLE OF BEING LOCKED IN THE OPENED POSITION.
19. PROVIDE AND INSTALL NEW TEMPERATURE SWITCH.
20. TWO (2) LED LUMINAIRES ARE TO BE INSTALLED. SPACE LIGHTS TO PROVIDE UNIFORM LIGHTING ACROSS PIPING FLOOR WALKWAY.
21. PROVIDE AND INSTALL NEW DUPLEX 5-20R RECEPTACLE. RECEPTACLE TO BE IN A WEATHERPROOF BOX IF DENOTED AS 'W.P.'.
22. PROVIDE AND INSTALL NEW DAMPER ACTUATOR.
23. PROVIDE AND INSTALL NEW SINGLE-POLE SWITCH.
24. PROVIDE AND INSTALL NEW LIGHTING CONTROL JUNCTION BOX.
25. PROVIDE AND INSTALL NEW OUTDOOR TEMPORARY LOAD BANK CONNECTION WITHIN A WEATHERPROOF ENCLOSURE.

1-0304U-E0017	ELECTRICAL SITE PLAN AND DETAILS
1-0304U-E0009	ELECTRICAL SCHEDULES AND PHOTOCCELL DETAILS
1-0304U-E0003	ELECTRICAL SINGLE LINE DIAGRAM
DRAWING NUMBER	REFERENCE DRAWINGS



NO.	REVISIONS	DATE	DESIGN	CHECK
0A	ISSUED WITH ADDENDUM 1	2021/06/01	BC	BC
00	ISSUED FOR CONSTRUCTION	2021/03/22	KS	BC

		SNC-LAVALIN INC. 148 Nature Park Way Winnipeg, MB, Canada R3P 0X7 204-786-8080
DESIGNED BY: K. SAPIAK	CHECKED BY: K. SAPIAK	ENGINEER'S SEAL PRELIMINARY NOT TO BE USED FOR CONSTRUCTION
DRAWN BY: C. DUBON	APPROVED BY: B. CLEVEN	
SCALE: AS SHOWN	ISSUED FOR CONSTRUCTION BY: K. ZUREK	THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT KEEWATIN UNDERPASS PUMPING STATION 2021 UPGRADES ELECTRICAL AND LIGHTING PLAN LAYOUT PUMPING STATION AND GENERATOR ROOM
DATE: 2019/05/24	DATE: 2021/03/22	
CONSULTANT NO.:		CITY DRAWING NUMBER 1-0304U-E0004
		SHEET 001
		REV. 0A
		SIZE A1