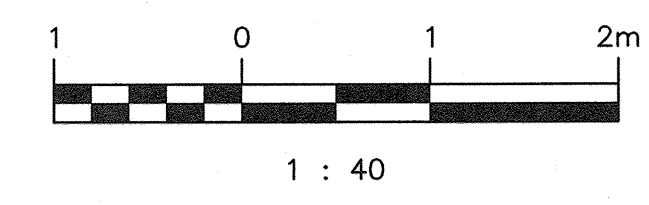


**MAIN FLOOR PLAN**  
SCALE: 1 : 40

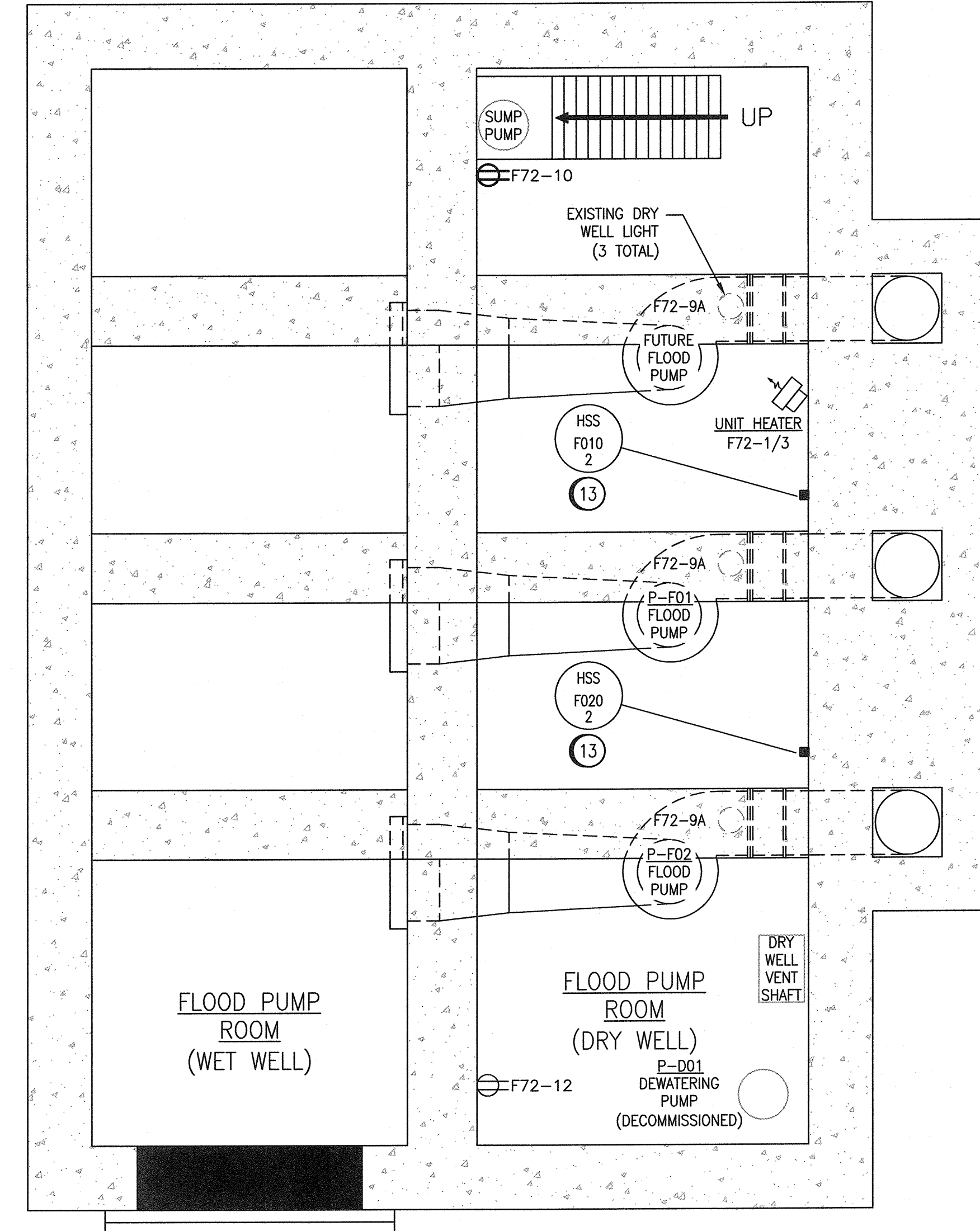
**LEGEND:**

	EXISTING
	NEW
	EMERGENCY LIGHTING BATTERY BANK
	BATTERY BANK IDENTIFIER
	PANELBOARD CIRCUIT
	EMERGENCY LIGHTING REMOTE FIXTURE
	SOURCE BATTERY BANK

DRAWING NUMBER	REFERENCE DRAWINGS
1-0179F-E0019	PNL-F72 JUNCTION BOX LAYOUT AND CONNECTION DIAGRAM
1-0179F-E0013	ELECTRICAL SCHEDULES
1-0179F-E0012	MCC ELEVATION AND DETAILS MCC-F71
1-0179F-E0010	HAZARDOUS LOCATION PLAN
1-0179F-E0009	ELECTRICAL PLAN LAYOUT MAIN FLOOR CABLE TRAY
1-0179F-E0004	ELECTRICAL SITE PLAN
1-0179F-E0003	ELECTRICAL SINGLE LINE DIAGRAM



**APEGM**  
Certificate of Authorization  
**SNC-Lavalin Inc.**  
No. 4489



**LOWER LEVEL FLOOR PLAN**  
SCALE: 1 : 40

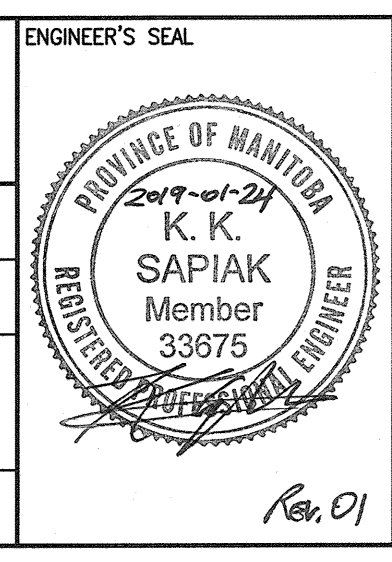
**CONSTRUCTION NOTES**

- 1 PROVIDE AND INSTALL NEW MOTOR CONTROL CENTRE, MCC-F71 COMPLETE WITH HOUSEKEEPING PAD INCLUDING FOR FUTURE MCC SECTION. REFER TO DRAWING 1-0179F-S0002 FOR HOUSEKEEPING PAD INSTALLATION REQUIREMENTS. REFER TO MCC SHOP DRAWINGS FOR MCC DIMENSIONS.
- 2 EXISTING MOTOR ROOM LIGHT SHALL BE REMOVED FROM STEEL BEAM AND RE-INSTALLED IN FRONT OF CSO PANEL. PROVIDE NEW CHAINS COMPLETE WITH HARDWARE FOR SECURING LIGHT TO CONCRETE CEILING. LIGHT SHALL BE INSTALLED SUCH THAT TOP OF LIGHT FIXTURE IS FLUSH WITH BOTTOM OF STEEL BEAM.
- 3 PROVIDE AND INSTALL NEW 600:120/240V SINGLE-PHASE TRANSFORMER, XFMR-F72.
- 4 PROVIDE AND INSTALL NEW 120/240V PANELBOARD, PNL-F72. PANELBOARD SHALL BE INSTALLED APPROXIMATELY 1200mm ABOVE FINISHED FLOOR. CONNECT ALL NEW AND EXISTING DEVICES TO CIRCUITS IDENTIFIED ON DRAWING 1-0179F-E0013.
- 5 PROVIDE AND INSTALL NEW LUMINAIRES IN THE ELECTRICAL ROOM.
- 6 PROVIDE AND INSTALL NEW EMERGENCY LIGHTING BATTERY BANK COMPLETE WITH EMERGENCY LIGHT IN THE ELECTRICAL ROOM WITH THE BOTTOM OF THE ENCLOSURE NOT LESS THAN 2000mm ABOVE FINISHED FLOOR. PROVIDE AND INSTALL REMOTE EMERGENCY LIGHT IN THE ELECTRICAL ROOM.
- 7 PROVIDE AND INSTALL NEW DUPLEX RECEPTACLES IN THE ELECTRICAL ROOM AS SHOWN. ALL RECEPTACLES TO BE WEATHER-PROOF. RECEPTACLES SHALL BE INSTALLED APPROXIMATELY 450mm ABOVE FINISHED FLOOR.
- 8 PROVIDE AND INSTALL TWO-GANG SWITCH FOR CONTROL OF MOTOR ROOM LIGHTING AND OUTDOOR RECEPTACLES. LABEL EACH SWITCH WITH ITS FUNCTION USING A LAMACOID. SWITCH SHALL BE INSTALLED APPROXIMATELY 1200 mm ABOVE FINISHED FLOOR.
- 9 PROVIDE AND INSTALL NEW LOCAL EMERGENCY STOP SWITCH IN THE MOTOR ROOM. SWITCH SHALL BE LOCATED APPROXIMATELY 1200mm ABOVE FINISHED FLOOR.
- 10 PROVIDE AND INSTALL NEW TEMPERATURE SWITCH IN THE ELECTRICAL ROOM. SWITCHES SHALL BE LOCATED APPROXIMATELY 1500mm ABOVE FINISHED FLOOR.
- 11 RELOCATE PREVIOUSLY DISCONNECTED RTU PANEL TO ELECTRICAL ROOM. INSTALL RTU PANEL 1200mm ABOVE FINISHED FLOOR.
- 12 PROVIDE AND INSTALL NEW RTU MARSHALLING PANEL. RTU MARSHALLING PANEL SHALL BE INSTALLED IN APPROXIMATELY SAME LOCATION AS PREVIOUSLY REMOVED RTU PANEL. EXTEND CONDUITS TO NEW MARSHALLING PANEL AS REQUIRED. REFER TO DRAWING 1-0179A-A0001 FOR SIZE.
- 13 PROVIDE AND INSTALL NEW LOCAL EMERGENCY STOP SWITCH IN THE FLOOD PUMP ROOM (DRY WELL). SWITCH SHALL BE LOCATED APPROXIMATELY 1200mm ABOVE DRY WELL FINISHED FLOOR.
- 14 PROVIDE AND INSTALL NEW JUNCTION BOX FOR CONNECTING INTO EXISTING DRY WELL 120/240V LOADS. REFER TO DRAWING 1-0179F-E0019 FOR SIZE.
- 15 PROVIDE AND INSTALL SINGLE GANG SWITCH FOR CONTROL OF ELECTRICAL ROOM LIGHTING. LABEL SWITCH WITH ITS FUNCTION USING A LAMACOID. SWITCH SHALL BE INSTALLED APPROXIMATELY 1200 mm ABOVE FINISHED FLOOR.
- 16 PROVIDE AND INSTALL NEW OUTDOOR DUPLEX RECEPTACLE. RECEPTACLE TO BE WEATHER-PROOF. RECEPTACLE SHALL BE INSTALLED APPROXIMATELY 1000mm ABOVE FINISHED FLOOR/GRADE.
- 17 PROVIDE AND INSTALL NEW OUTDOOR LIGHT FIXTURES. CORE DRILL FROM OUTSIDE TO AVOID DAMAGE TO BRICK.
- 18 RELOCATE PREVIOUSLY DISCONNECTED FLOOD PUMP LOCAL DISCONNECT SWITCH WITHIN MOTOR ROOM. INSTALL DISCONNECT SWITCH APPROXIMATELY 1200mm ABOVE FINISHED FLOOR.
- 19 PROVIDE AND INSTALL NEW LOCAL DISCONNECT SWITCH FOR SUPPLY FAN SF-F64. INSTALL DISCONNECT SWITCH APPROXIMATELY 1200mm ABOVE FINISHED FLOOR.

NO.	REVISIONS	DATE	DESIGN	CHECK
01	ADDED LOCAL SWITCHES, ISSUED FOR CONSTRUCTION	2019/01/24	KS	BC
00	ISSUED FOR TENDER AND CONSTRUCTION	2018/12/14	KS	BC

**SNC-LAVALIN INC.**  
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DESIGNED BY: K. SAPIAK  
CHECKED BY: B. CLEVEN  
DRAWN BY: K. SAPIAK  
APPROVED BY: B. CLEVEN  
SCALE: 1 : 40  
ISSUED FOR CONSTRUCTION BY: K. ZUREK  
DATE: 2018/06/27  
DATE: 2019/01/24



**THE CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT

ROLAND FLOOD PUMPING STATION  
2019 UPGRADES  
ELECTRICAL PLAN LAYOUT  
MAIN AND LOWER LEVEL FLOOR

CITY DRAWING NUMBER: 1-0179F-E0008  
SHEET: 001  
REV: 01  
SIZE: A1