

LEGEND:
 ——— EXISTING
 - - - - - NEW WORK
 - - - - - DEMOLISH

PUMPING STATION - LOWER LEVEL (ELEVATION 228.295)
 SCALE: 1 : 75

CONSTRUCTION NOTES:

- 1 PROVIDE NEW GAS DETECTION CONTROLLER/TRANSMITTER, AIT-M6902, FOR CARBON MONOXIDE DETECTION. PROVIDE NECESSARY MOUNTING ACCESSORIES. SEE 1-0640M-A0075.
- 2 PROVIDE NEW CARBON MONOXIDE SENSORS, AE-M6902-1,2. PROVIDE NEW WIRING TO GAS DETECTOR AIT-M6902. REFER TO DRAWING 1-0640M-A0075 FOR WIRING DETAILS. SENSORS TO BE LOCATED NO MORE THAN 5 FEET ABOVE FINISHED FLOOR.
- 3 PROVIDE GAS DETECTION HORNS AND HORNS/STROBES AS SHOWN. PROVIDE ALL NECESSARY MOUNTING ACCESSORIES. REFER TO DRAWING 1-0640M-A0074-001 AND 1-0640M-A0074-001 FOR WIRING DETAILS. PROVIDE STROBE COLOUR DIFFERENT FROM FIRE ALARM STROBE COLOUR AND CHILLER LEAK DETECTION STROBE COLOUR.
- 4 PROVIDE NEW LEAK DETECTION, AE-M6401, FOR REFRIGERANT HFO1234ZE FOR CHILLER CHLR-M640. LOCATE GAS INLET FILTER (SAMPLING POINT) CLOSE TO POTENTIAL LEAK AREA.
- 5 PROVIDE LEAK DETECTION CONTROLLER, AIT-M6401. MOUNT CONTROLLER ON COLUMN NEAR CHILLER. PROVIDE ALL NECESSARY MOUNTING ACCESSORIES. REFER TO DWG. 1-0640M-A0076 FOR WIRING DETAILS.
- 6 PROVIDE HORN/STROBE AAH-M6401 FOR CHILLER LEAK DETECTION. MOUNT HORN/STROBE ON COLUMN NEAR CHILLER. PROVIDE ALL NECESSARY MOUNTING ACCESSORIES. REFER TO DWG. 1-0640M-A0076 FOR WIRING DETAILS. PROVIDE STROBE COLOR DIFFERENT FROM FIRE ALARM STROBE COLOR AND GAS DETECTION STROBE COLOUR.
- 7 PROVIDE NEW TEMPERATURE TRANSMITTER, TT-M6405. TRANSMITTER SHALL BE LOCATED IN SAME LOCATION AS PREVIOUSLY DEMOLISHED TEMPERATURE TRANSMITTER. PROVIDE NEW CABLING AND CONDUIT. REFER TO DWG. 1-0640M-A0064.

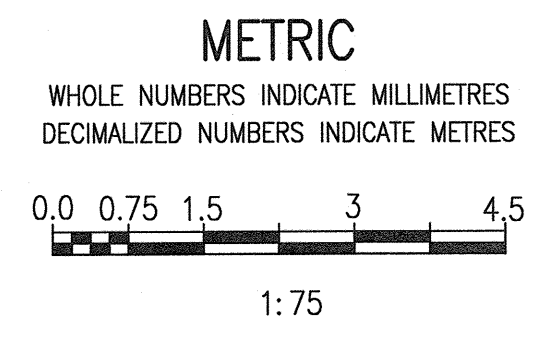
DEMOLITION NOTES:

- A DEMOLISH EXISTING TEMPERATURE TRANSMITTER. REMOVE ALL ASSOCIATED CABLING BACK TO HVAC CONTROL PANEL 1 AND/OR SOURCE PANEL.

GENERAL NOTES:

- 1. ALL DEVICES SHOWN ARE NEW AND ARE TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE INDICATED AS EXISTING.
- 2. LOCATION OF EXISTING DEVICES BEING REPLACED ARE APPROXIMATE. ELECTRICAL CONTRACTOR TO DETERMINE EXACT LOCATION AND INSTALL NEW DEVICE IN EXISTING LOCATION.
- 3. NOT ALL EQUIPMENT SHOWN. REFER TO AUTOMATION LOOP DRAWINGS FOR ASSOCIATED DEVICES (EG. JUNCTION BOXES) NEEDED FOR WIRING CONNECTIONS IN THE FIELD.

1-0640M-P0012	PROCESS & INSTRUMENTATION DIAGRAM, MISCELLANEOUS
1-0640M-A0084	NETWORK DIAGRAM
1-0640M-A0076	LOOP DIAGRAM, AIT-M6401 CHILLER LEAK DETECTION
1-0640M-A0075	LOOP DIAGRAM, AIT-M6902 CO DETECTOR - MAIN PUMP HOUSE
1-0640M-A0074-002	LOOP DIAGRAM, AIT-M6901-1, AIT-M6901-2, AIT-M6901-3
1-0640M-A0074-001	LOOP DIAGRAM, AIT-M6901-1, AIT-M6901-2, AIT-M6901-3
1-0640M-A0071	LOOP DIAGRAM, TT-M6403, TT-M6404
1-0640M-A0070	LOOP DIAGRAM, FSL-M6411, FSL-M6421, P-M641 AND P-M642
1-0640M-A0064	LOOP DIAGRAM, TT-M6011, TT-M6045, TEMPERATURE TRANSMITTERS
DRAWING NUMBER	REFERENCE DRAWINGS



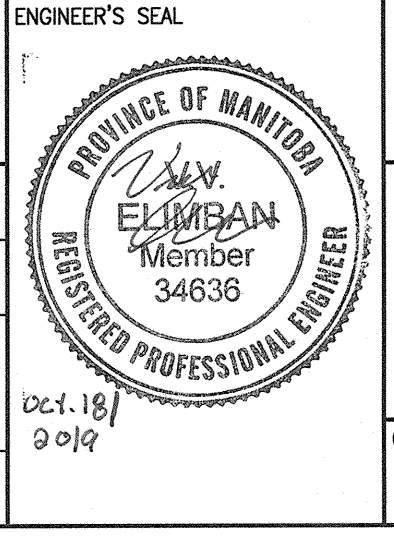
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NO.	REVISIONS	DATE	DESIGN	CHECK

SNC-LAVALIN INC.
 148 Noture Park, Wey
 Winnipeg, MB, Canada R3P 0X7
 204-786-8080

DESIGNED BY: V. ELIMBAN
 DRAWN BY: C. DUBON
 SCALE: 1 : 75
 DATE: 2019/04/15

CHECKED BY: B. CLEVEN
 APPROVED BY: D. BECKER
 ISSUED FOR CONSTRUCTION BY: A. WEISS
 DATE: 2019/10/18

CONSULTANT NO.:



THE CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT

MCPHILLIPS PUMPING STATION
 ELECTRICAL AND HVAC UPGRADES, MCC REPLACEMENT
 INSTRUMENTATION PLAN - DEMO & NEW WORK
 LOWER LEVEL

CITY DRAWING NUMBER: 1-0640M-A0049
 SHEET: 001
 REV: 00
 SIZE: A1