

PUMPING STATION - LOWER LEVEL
SCALE: 1 : 75

LEGEND:

- EXISTING
- NEW WORK
- - - DEMOLISH

GENERAL NOTES:

1. ALL EQUIPMENT IS NEW UNLESS SPECIFICALLY NOTED OTHERWISE AND SHALL BE PROVIDED THE CONTRACTOR.
2. PROVIDE UNISTRUT AS NEEDED WHEN ROUTING TECK90 CABLES.
3. REFER TO ASBESTOS REPORTS IN APPENDIX B. ASBESTOS IS PRESENT IN AND/OR PRESUMED TO BE PRESENT IN (BUT NOT LIMITED TO) THE FOLLOWING:

- PIPING : RAIN WATER LEADER (SWEAT WRAP PIPE INSULATION & PARING OVER FIBREGLASS)
DOMESTIC WATER HOT/COLD (PARING OVER FIBREGLASS)
CHILLED WATER SUPPLY/RETURN (PARING OVER FIBREGLASS)
- FLOOR : PLASTER (CERAMIC TILES)
ADHESIVE/MASTIC (CERAMIC TILES)
- DUCT : GENERATOR EXHAUST (MAGNESIA BLOCK)
FRESH AIR INTAKE (SWEAT WRAP PIPE INSULATION & PARING OVER FIBREGLASS)

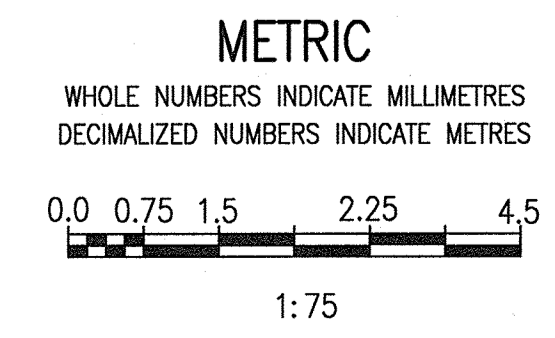
DEMOLITION NOTES:

- (A)** DEMOLISH EXISTING CHILLER CH-M1 AND ALL ASSOCIATED EQUIPMENT AND CABLING UP TO THE SOURCE MCC-A.
- (B)** DEMOLISH EXISTING 4-PLEX MCC-M6, CONDENSER WATER PUMPS P7 AND P8, FUSE DISCONNECT SWITCH (FDS-HTR-M60) AND ALL ASSOCIATED CABLING/CONDUIT.
- (C)** DEMOLISH EXISTING AIR COMPRESSOR ALTERNATOR PANEL AND ASSOCIATED LOCAL STOP AND START BUTTONS. DEMOLISH ALL ASSOCIATED CABLING/CONDUIT.
- (D)** DEMOLISH EXISTING STOP/START PUSHBUTTONS FOR SUMP PUMPS SP1 AND SP2. REMOVE ALL ASSOCIATED CABLING/CONDUIT.
- (E)** DEMOLISH EXISTING WELDING RECEPTACLE.

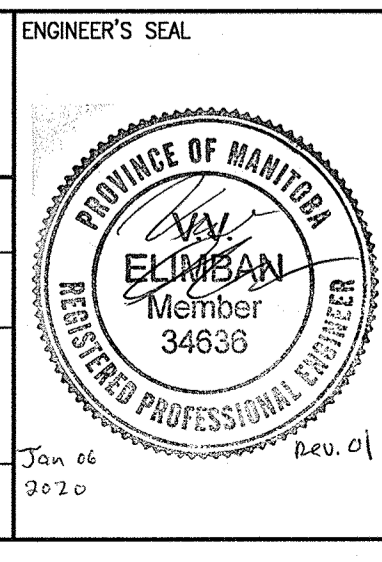
CONSTRUCTION NOTES:

- (1)** PROVIDE NEW LOCAL CONTROL PANEL LCP-M540 FOR EXISTING SUMP PUMPS SP1 AND SP2. UTILIZE EXISTING TRAY TO ROUTE CABLING.
- (2)** PROVIDE NEW 60A RATED WELDING RECEPTACLE WITH INTEGRAL DISCONNECT SWITCH, RCPT-M720-1.
- (3)** PROVIDE NEW CHILLED WATER PUMPS P-M641 & P-M642 ASSOCIATED WITH THE NEW CHILLER CHLR-M640. PUMPS TO BE FED FROM NEW MCC-M710. PROVIDE DISCONNECT SWITCHES FOR EACH PUMP. MOUNT SWITCH ON THE WALL. PUMPS TO BE PROVIDED BY MECHANICAL CONTRACTOR.
- (4)** PROVIDE NEW 30A RATED, NON-FUSIBLE, DISCONNECT SWITCH, DS-SP1, DS-SP2, DS-AC1 & DS-AC2.
- (5)** PROVIDE NEW LOCAL CONTROL PANEL LCP-M500 FOR AIR COMPRESSORS AC1 AND AC2.
- (6)** PROVIDE NEW CHILLER INDOOR UNIT, CHLR-M640. PROVIDE DISCONNECT DS-M640-1 AT UNIT. PROVIDE COMMUNICATION CABLING BETWEEN CHILLER CHLR-M640 AND CONDENSER PUMPS P-M641 & P-M642 AS PER MANUFACTURERS REQUIREMENTS. CHILLER PROVIDED BY MECHANICAL CONTRACTOR.
- (7)** PROVIDE NEW 480V PANELBOARD DP-M640 DIRECTLY BELOW STAIRWELL. PROVIDE ALL NECESSARY MOUNTING ACCESSORIES.

1-0640M-A0049	INSTRUMENTATION PLAN, PUMPHOUSE, LOWER LEVEL
1-0640M-A0036	ELECTRICAL SINGLE LINE DIAGRAM MCC-M730E
1-0640M-A0035	ELECTRICAL PANEL LAYOUT, MCC-M720 LAYOUT & SCHEDULE
DRAWING NUMBER	REFERENCE DRAWINGS



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DESIGNED BY:	V. ELIMBAN	CHECKED BY:	K. SAPIAK
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SCALE:	1 : 75	ISSUED FOR CONSTRUCTION	DATE: 2019/04/15
BY:	A. WEISS	DATE:	2019/10/18
CONSULTANT NO.:			
NO.	REVISIONS	DATE	DESIGN CHECK
01	ISSUED FOR ADDENDUM 3	2020/01/06	VE VE
00	ISSUED FOR TENDER AND CONSTRUCTION	2019/10/18	VE KS



THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

MCPHILLIPS PUMPING STATION
ELECTRICAL AND HVAC UPGRADES, MCC REPLACEMENT
ELECTRICAL EQUIPMENT PLAN
LOWER LEVEL

CITY DRAWING NUMBER: 1-0640M-E0041
SHEET: 001
REV: 01
SIZE: A1