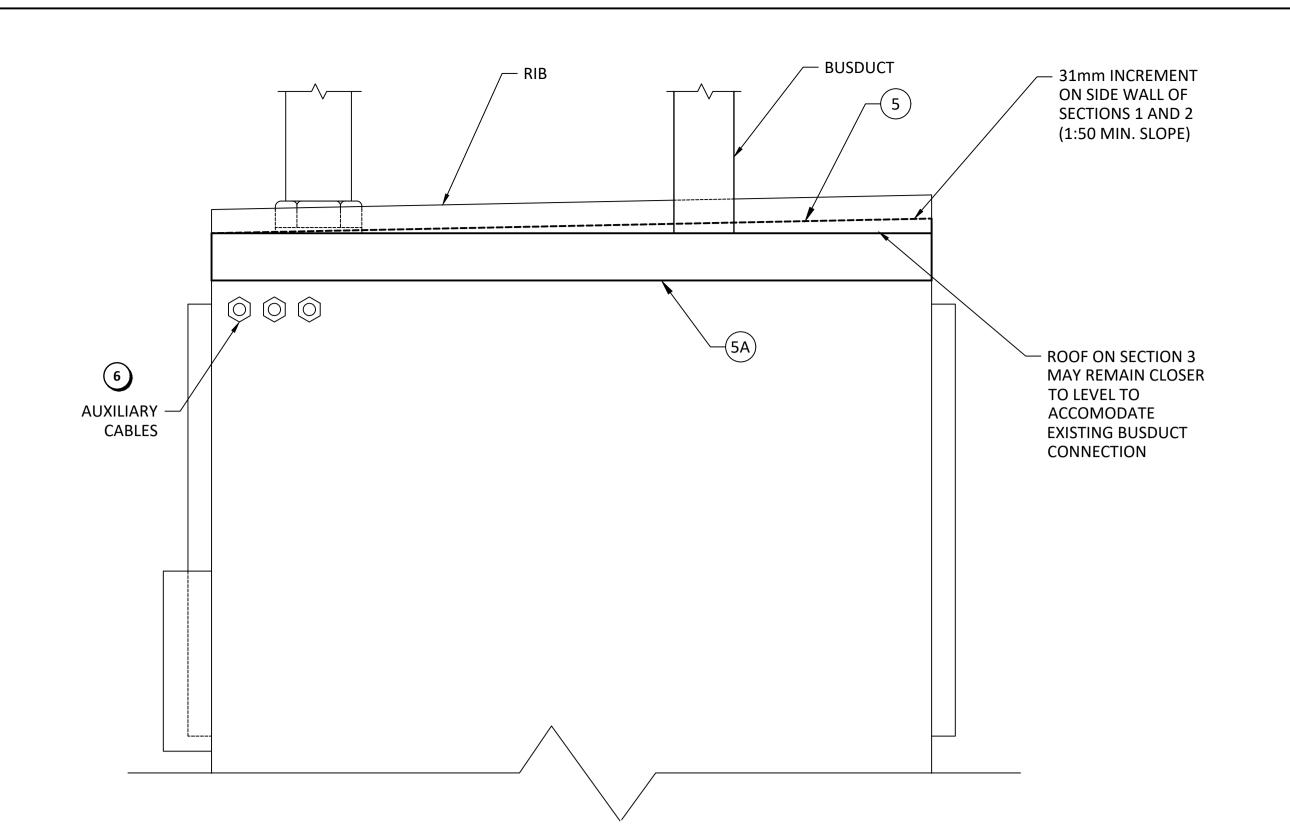
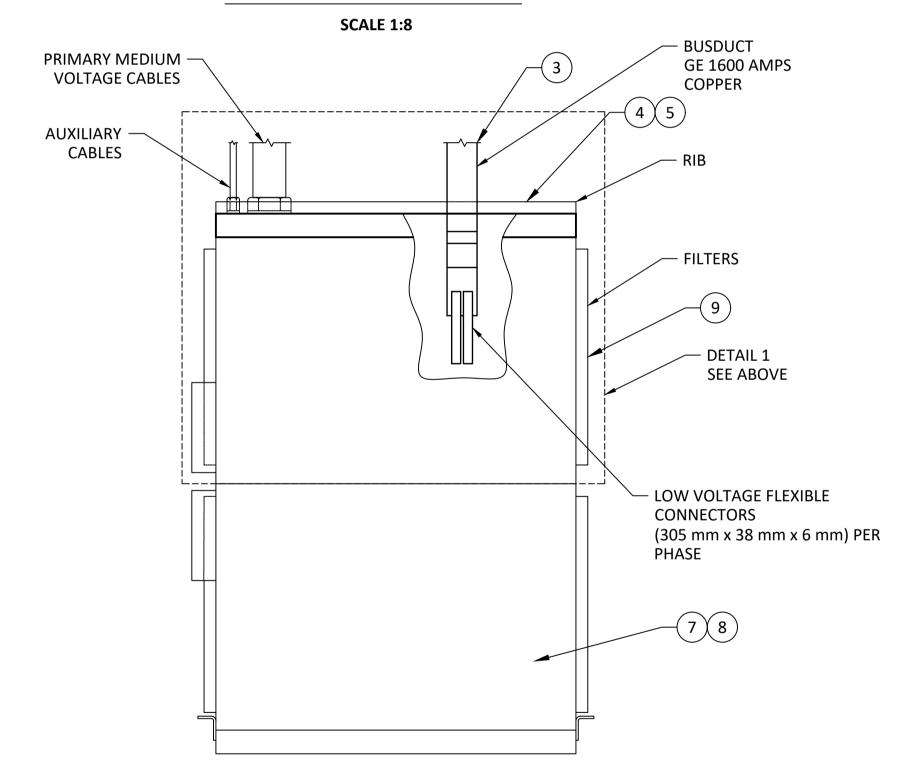


FRONT VIEW - EXISTING SCALE 1:16



RIGHT SIDE VIEW - NEW



RIGHT SIDE VIEW - EXISTING SCALE 1:16

NO. REVISIONS

No. 6983

CONSTRUCTION NOTES:

- 1 TEST THE TRANSFORMER AND CABLES PRIOR TO REMOVING.
 - DISCONNECT AND CAREFULLY REMOVE THE 4160V PRIMARY POWER CABLES.
- disconnect the busduct and remove the transition section and other

SECTIONS AS REQUIRED TO REMOVE THE TRANSFORMER ROOF

PROFESSIONAL ENGINEER PRIOR TO CONSTRUCTION.

- REMOVE THE TRANSFORMER ROOF AND COVER THE TRANSFORMER AS REQUIRED TO
- REPLACE THE EXISTING STEEL WITH A STAINLESS STEEL ROOF THAT HAS A MINIMUM SLOPE OF 1:50 ON SECTION 1 AND SECTION 2. THE SECTION 3 ROOF SLOPE MAY BE MINIMIZED TO ALLOW FOR THE BUSDUCT CONNECTION. A POSSIBLE DESIGN CONCEPT IS SHOWN IN DETAIL 1. HOWEVER, THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF THE MODIFIED ROOF AND MODIFICATION OF ALL THE CONNECTIONS, INCLUDING THE BUSWAY CONNECTION. PROVIDE SHOP DRAWINGS SEALED BY A
- PROVIDE AND ATTACH INSULATION TO THE INTERIOR OF THE ENCLOSURE ROOF. IN ADDITION TO ATTACHING THE INSULATION REUTILIZE OR PROVIDE NEW FIBREBOARD TO PREVENT INSULATION FROM FALLING DOWN.
- RE-INSTALL ALL CABLES AND BUSDUCT, REPLACE ALL THE CABLE GLANDS, AND PROVIDE THE ASSOCIATED STRUCTURE TO SUPPORT THE CABLES, TAKING CARE NOT TO DAMAGE. RE-ENTRY OF ALL AUXILIARY CABLES TO BE FROM THE RIGHT SIDE OF THE TRANSFORMER. REPAIR THE 4160V CABLES AS DESCRIBED IN THE SPECIFICATIONS.
- CLEAN CORROSION ON THE ENCLOSURE EXTERIOR WALLS, DOORS, AND ALL OTHER PANELS. DO NOT UTILIZE SANDBLASTING OR OTHER TECHNIQUES WHICH COULD IMPACT THE TRANSFORMER.
- 8 PRIME AND PAINT THE ENTIRE ENCLOSURE EXTERIOR WITH AN EPOXY PAINT.
- 9 REMOVE AND CLEAN ALL FILTERS.

ENGINEER'S SEAL

100022-011

- CLEAN THE TRANSFORMER INTERIOR.
- 11 TEST THE TRANSFORMER AND CABLES UPON COMPLETION OF THE REPAIR WORK.
- install a new sign with a red face containing the words: "danger: 4160 v".
 - COORDINATE, PAY FOR, AND RECEIVE AN INSPECTION AND APPROVAL OF THE TRANSFORMER MODIFICATIONS BY THE OFFICE OF THE FIRE COMMISSIONER OR APPROPRIATE AUTHORITY HAVING JURISDICTION.

NOTES
NOTES

- 1. ALL DIMENSIONS SHOWN ARE APPROXIMATE ONLY AND REQUIRE FIELD CONFIRMATION.
- 2. ALL BRACING AND FIELD INSTALLED CHANNELS ARE NOT SHOWN. SITE INVESTIGATION IS REQUIRED.

						CENGYS www.cengys.com		
						DESIGNED BY: C. REIMER	CHECKED BY: C. REIMER	
ENGINEERS GEOSCIENTISTS						DRAWN BY: S. FUNK / E. COELHO SCALE: AS SHOWN	APPROVED BY: C. REIMER	
MANITOBA Certificate of Authorization							ISSUED FOR CONSTRUCTION BY: K. SCHIMKE	
CENGYS Ltd.	00	ISSUED FOR CONSTRUCTION (896-2021)	2022-01-06	CIR	CIR	DATE: 2021-08-15	DATE: 2022-01-06	

DATE DESIGN CHECK

Winning

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

NORTH END SEWAGE TREATMENT PLANT
UV TRANSFORMER REPAIR
EQUIPMENT LAYOUT
LST-4 AND LST-5 TRANSFORMERS

CITY DRAWING NUMBER SHEET REV. | 1-0101U-E0019 | 001 | 00 |

1-0101U-E0020 INSTALLATION DETAILS, CABLE TRAY, AND BUSDUCT SUPPORTS

DRAWING NUMBER REFERENCE DRAWINGS

SINGLE LINE DIAGRAM, 4160V ELECTRICAL DISTRIBUTION

SINGLE LINE DIAGRAM, 600V AND 208/120V DISTRIBUTION

1-0101U-E0013

1-0101U-E0016