

THE REGIONAL MUNICIPALITY OF NIAGARA

TENDER 2017-T-104 (RN 17-04)

**Regional Municipality of Niagara
South Side Low Lift Sewage Pumping Station Upgrades
City of Niagara Falls**

ADDENDUM NO. (4)

I DIRECTIVE

This addendum shall form an integral part of the plans and specifications for the above project and shall be read in conjunction therewith. This addendum shall, however, take precedence over all requirements of the previously issued drawings and specifications with which it may prove to be at variance, unless otherwise clarified by the Engineer.

This addendum must be signed by the Tenderer in the appropriate space and must be attached to the back of the Form of Tender and placed in the Envelope for submission at the time of tendering. **Tenders not including this addendum signed as requested shall be rejected as informal.**

II REVISIONS

1. Division 15, Specification Section 15205 – Clause 2.11.2.4 - Manufacturers and Products

The following change is to bring the specification in compliance with the Region's Approved Product and Equipment List.

On page 10 of 13 **REMOVE:**

- 2.11.2.4 *Manufactures and Products*
 - a) *Cla-Val;*
 - b) *Singer;*
 - c) *Val Matic*

ADD:

- 2.11.2.4 *Manufactures and Products*
 - a) *Cla-Val;*
 - b) *Singer;*
 - c) *Golden Anderson*

2. Division 13, Specification Section 13110 – Clause 2 Products (see Addendum 2)

On page 2 of 3 **ADD:**

- 2.3 *Acceptable Manufacturers*
 - a) *Miltronics*
 - b) *Pulsar*
 - b) *Rosemount*

III QUESTIONS

Q1 As per Addendum 1, 10 type B light fixtures already installed by previous Contractor. Will the rest of light fixtures, emergency lighting be free issued to Contractor for installation or Contractor will have to purchase the rest of equipment less 10 type B fixtures already installed.

A1 The Contractor will be responsible for providing all proposed lighting equipment shown on the drawing set. The 10 type B fixtures are the only ones that have been supplied and installed.

Q2 As per Addendum 2, there will be two new ultrasonic level transmitters to be installed. Are they going to be mounted on the control panel door or on the wall?

A2 The two new ultrasonic level transmitters are to be installed mounted on the control panel door.

Q3 New transformer pad to be provided as per Q/A 13. Is existing transformer pad to be removed and replace with new pad? Drawing only shown secondary ductbank from transformer pad to pumping station. Is primary ductbank and primary cable to be remained in place while pad is being replaced? There is no details or notes regarding ground grid for the new pad. Is existing ground grid to be reused?

A3 The existing transformer pad (base, vault and lid) is to be removed and replaced with a new pad (base, vault and lid). Please provide a “Hygrade TP-103-48 2K Precast Pad” (**attached**) with the optional solid base. The Contractor will be required to provide temporary primary power during the replacement of transformer and pad (base, vault and lid). The existing primary feed duct bank can be re-used, the Contractor is responsible for providing all necessary transitions from the existing duct bank to new pad. A new transformer grounding grid is to be provided, see the **attached** ground grid for reference. The Contractor is to provide impact protection on the driveway side of the transformer with a minimum of 2 bollards, location to be verified with onsite engineer.

Q4 We have a question regarding the South Side pumping station. On drawing S212 detail 1. The beam size of W310x31 is not available. The options are W310x21, W310x33, or C310x31. Please clarify the size in an addendum.

A4 The sections suggested are all weaker than the W310x31 member used in the design. If the W310x31 is not available a suitable alternate is a W310x39 member

Q5 Dwg. P204 shows (qty 4) 500mm Victaulic couplings between KGV1/2/3/4 and the wet well. Please confirm that these couplings are existing as they are not shown on the removal dwg. P202.

A5 The Victaulic couplings are existing and are shown for information.

Q6 Please confirm that stainless steel piping is to be type 304L SS Sch40 as per section 15200, not 316L Sch40 per the pipe material code on dwg. P201.

A6 All stainless steel piping is to be type 316L Sch 40.

- Q7 Please confirm that stainless steel piping 50mm and smaller is to be type 316L sch40 as per section 15200, not 304L sch40 as specified for piping larger than 50mm.
- A7 All stainless steel piping is to be type 316L Sch 40.
- Q8 Please confirm that fabricated branches to A774 are acceptable for the 500mm laterals.
- A8 “ASTM A 774” fittings are not acceptable. Acceptable fittings for all stainless steel piping are “ASTM A 403” and “ANSI B16.9”.
- Q9 With regards to the Lower Dry Well Sequencing in section 2.1 of the draft commissioning plan, is it the intent that only the discharge isolation valves (KGV11/KGV12) need to be replaced during low flow conditions and the station can run on two pumps until the remaining discharge knife gate valves and surge relief valves are replaced? If not, should the contractor assume that discharge piping needs to be reinstated following replacement of KGV11/12 if all valves cannot be replaced in the same day so that all pumps can run?
- A9 The intent of the draft commissioning plan was to replace KGV11/KGV12 under low flow conditions and resume pumping operation as soon as possible with two pumps. The commissioning plan is shown in draft format indicating a suggested sequence. Once the contract has been awarded it is the successful Contractor’s responsibility to work with the Region and Engineer to modify and finalize it based on the Contractor's schedule and construction sequence.
- Q10 With respect to Note 2 on Drawing P202, please advise what (if any) plumbing is to be removed as there doesn’t appear to be any shown and provide as-built drawings if available. Please also provide as-built drawings of duct work to be removed if available.
- A10 No plumbing is to be removed. See Mechanical drawings for HVAC removal.
- Q11 Please confirm that the contractor is to carry costs for a certified welding inspector to visually inspect all welds per section 15125.
- A11 Yes, that is correct.
- Q12 UHT-2/3/6/7 are indicated as pre-purchased by RMON per the unit heater schedule on dwg. M201 but are not indicated as pre-purchased in section 01645. Please confirm that these heaters have been pre-purchased and advise if/when they have been delivered so we can determine if extended warranties are required.
- A12 UHT-2/3/6/7 have been pre-purchased by RMON. The heaters were delivered to site, installed and temporarily wired October 2014. It is the Contractor’s responsibility to permanently wire the heaters.

END OF ADDENDUM NO. 4

NO. OF PAGES: 4

Date Issued: April 5, 2017

Signature: Vicki Lafford-Field
Purchasing Agent

THE TENDERER SHALL ADJUST HIS BID PRICE ACCORDING TO THE CHANGES SPECIFIED IN THIS ADDENDUM.

Name of Company: _____

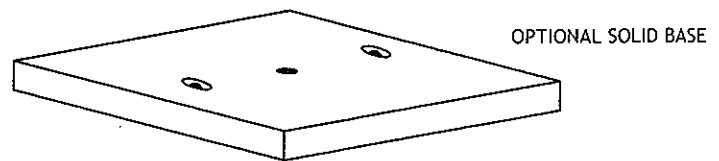
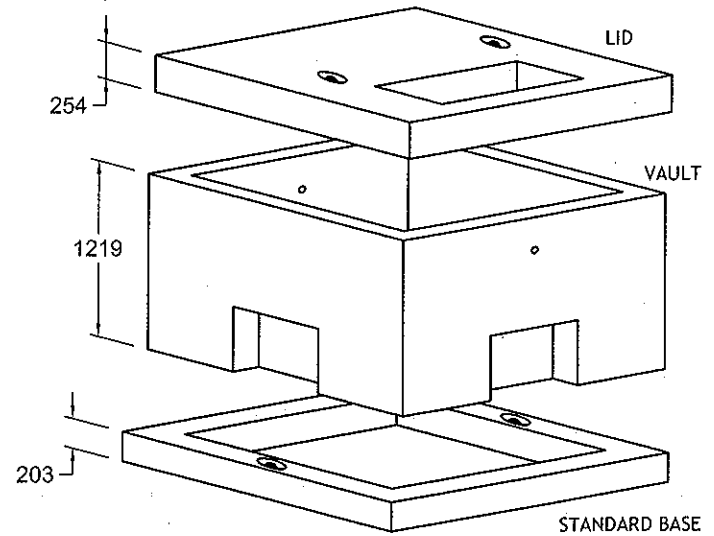
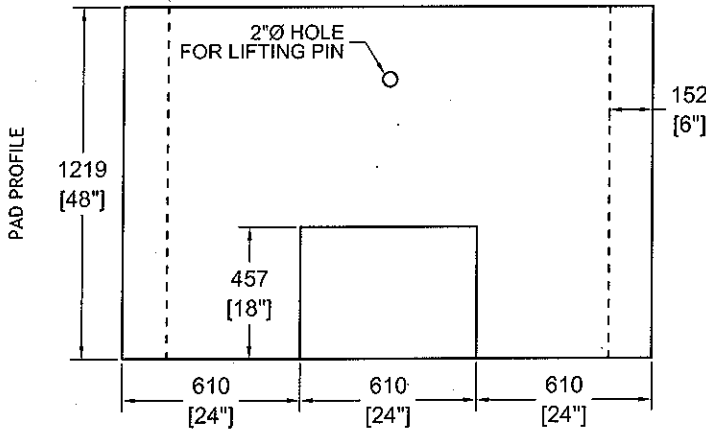
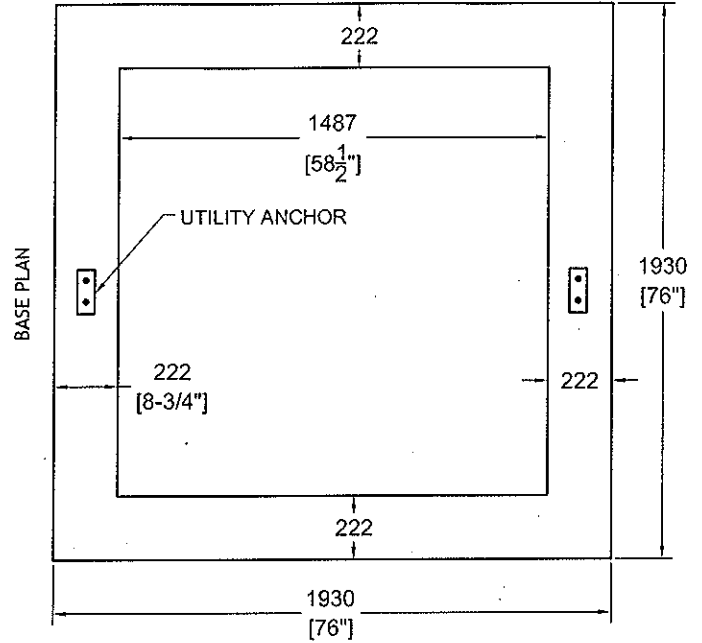
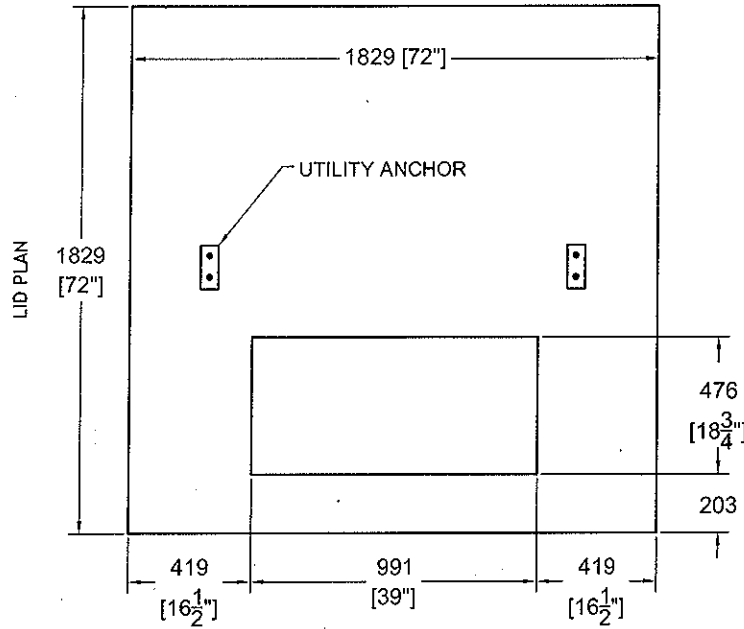
Tenderer's Signature: _____

Date: _____



HY-GRADE
PRECAST CONCRETE

TRANSFORMER PAD
TP-103-48 2K
FOR UP TO 2000 KVA TRANSFORMER



NOTES:

- ▣ Designed for 1500 & 2000 kVa [6,990 kg] Transformers
- ▣ 4 - 24" x 18" Blockouts
- ▣ Concrete Strength: 40 MPa [min.] Air Entrained [5 - 8%]
- ▣ Wall Thickness: 152mm [6"]
- ▣ BASE & LID Thickness: 254mm[10"] & 203mm [8"]
- ▣ Reinforcement: 10M Rebar & 4x4x4/4 WWF
- ▣ LID Weight: 1,755 kg [3,865 lbs.]
- ▣ VAULT Weight: 2,655 kg [5,850 lbs.]
- ▣ BASE Weight: 745 kg [1,635 lbs.]
- ▣ OPTIONAL SOLID BASE Weight: 1 821 kg [4 015 lbs.]

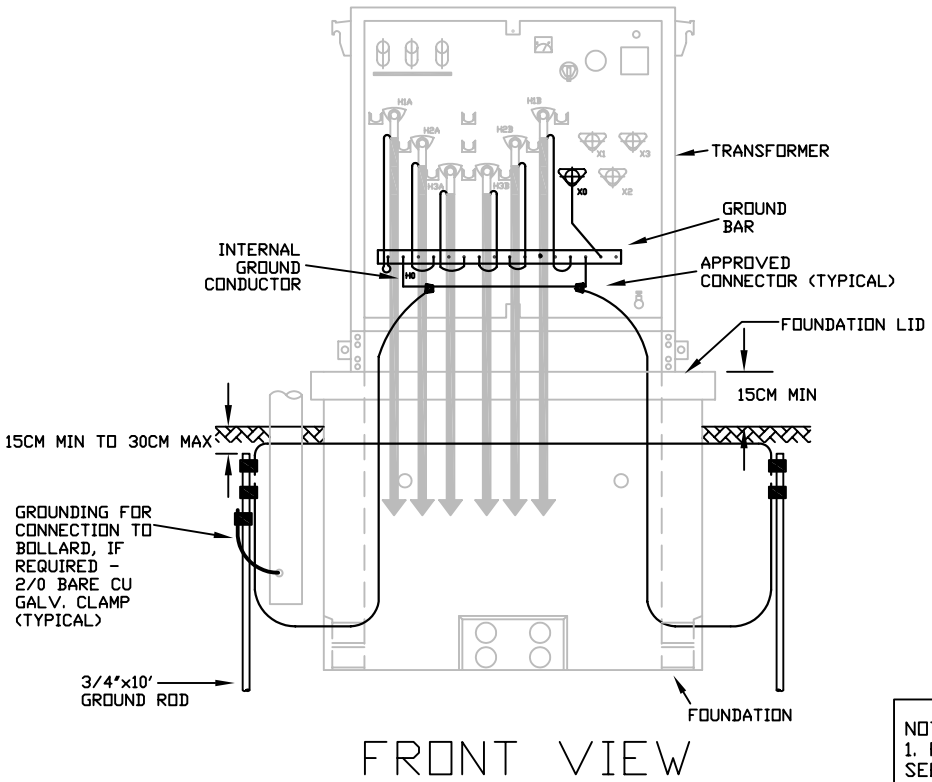
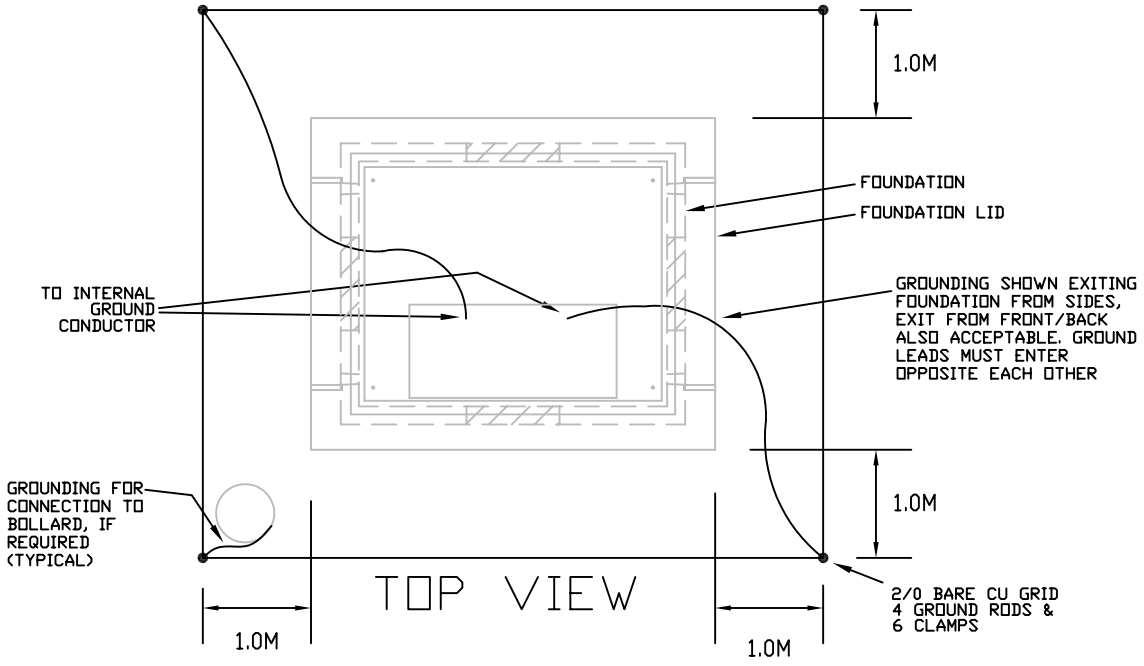
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12-902



NOTES:
 1. FOR PRIMARY CONNECTIONS SEE DRAWING NO.: 12-300
 2. FOR FOUNDATION DETAILS SEE DRAWING NO.: 12-201



TITLE: GROUNDING DETAIL FOR A THREE PHASE PADMOUNT TRANSFORMER

SIZE A	FILE NAME: 12-902.DWG	DWG NO. 12-902	REV 0
SCALE NTS	DATE: 2006-12-31	SHEET 1	