

APPENDIX 'B'

MANITOBA HYDRO GAS INFORMATION

April 12, 2016

MH File # 2016-0041

Gwen Coolidge
Transportation Engineer
Morrison Hershfield
Suite 1, 59 Scurfield Blvd.
Wpg, MB R3Y 1V2

Dear Ms Coolidge:

Re: BID OP 19-2016 ST. JAMES RECONSTRUCTION

Manitoba Hydro (Gas) has reviewed the design submitted by M&H for BID OP 19-2016. The following parameters shall be followed when working in proximity to all natural gas mains. Please ensure that all requirements are communicated to your contractor.

1. Special Concerns – Fitting Replacement

Upon review, it was noted that Manitoba Hydro has a below grade flanged fitting requiring replacement on St. James St. between Maroons Rd. and Silver Ave. (See Figure 1).

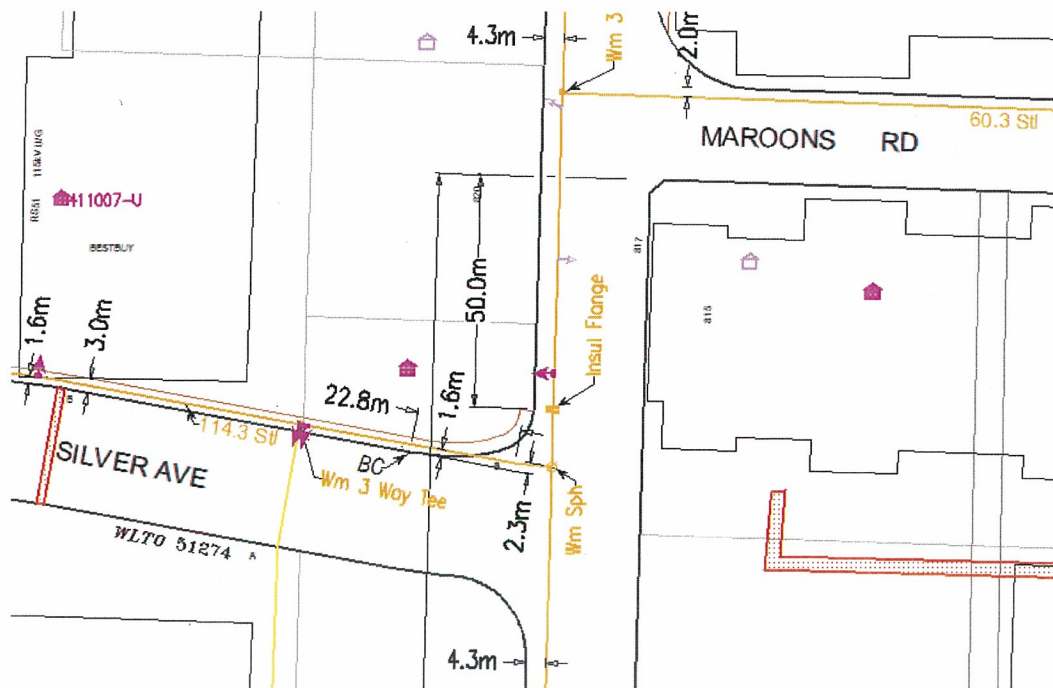


Figure 1: Insul Flange Requires Replacement.

Manitoba Hydro will replace the below grade flange at no cost to your project however it should be coordinated during construction to avoid additional impacts on the area. Please update us with an accurate schedule of the work in this area. For updates from Manitoba Hydro please contact:

Design Drawing and Approval Updates

Wayne Morrell

P: 204-360-4330

E: wmorrell@hydro.mb.ca

Construction Updates and Coordination

Shane Heiner

P: 204-360-5568

C: 204-795-6429

Under normal circumstances, the amount of time required to mobilize for this work is approximately 2-3 weeks.

2. Catch Basin Removal and Installation

- Proposed excavations for the removal and installation of catch basins appears to be within 1.0 meters a gas main in which case will require exposure to be completed by hand or Hydro-excavation . Caution must be used when working in the vicinity of the natural gas mains at these locations.

3. Asphalt Overlays and Road Reconstruction

- When excavations for concrete works are required within 1.0 meters of any natural gas main, the main must be exposed by hand or soft dig methods to verify the main elevation at intervals to be determined by the site inspector.
- Should a main be exposed to sub-base, the main requires rock wrap and may also require lowering.
- Please contact Shane Heiner at 204-360-5568 for any work required on site.

4. Service Relocations (road reconstruction)

- This project may impact services. Services that are to be exposed in the subgrade must be rock wrapped and lowered during construction or replaced prior to construction. Manitoba Hydro will not be able to complete rock wrapping or lowering of any services unless the lowering is minimal (i.e. < 100-150 mm or < 4-6”).
- Manitoba Hydro is currently performing lowerings and rock wrapping free of charge to City Of Winnipeg works.
- Under normal circumstances, the amount of time required to mobilize for this work is approximately 2-3 weeks.
- Please contact Shane Heiner at 204-360-5568 for any work required on site.

5. General:

- Please note that all construction operations within the vicinity of natural gas pipelines are to take place in a manner so as not to damage or cause detriment to the integrity of the natural gas pipeline. Any damages to the coating must be reported to and repaired at no cost by Manitoba Hydro prior to backfilling. All natural gas pipelines and service lines must be properly located and marked by Manitoba Hydro personnel. This can be arranged by visiting ClickBeforeYouDigMB.com or call 1-800-940-3447. Construction operations are not to

commence unless these conditions are adhered to.

- All excavations within 1.0 meter of any natural gas main must be completed by hand or Hydro-excavation.
- A minimum vertical separation of 300 mm from gas mains and 100 mm from gas service lines must be maintained between any Manitoba Hydro facility and any new installations.
- A minimum 600 mm of cover shall be maintained in all areas where equipment will be crossing, traveling or compacting over the 114.3 mm gas mains. Vibratory compaction cannot be used over or within 1m of a main.
- A minimum 450 mm of cover shall be maintained in all areas where equipment will be crossing, traveling or compacting over the gas service lines. Vibratory compaction cannot be used over or within 1m of a service.
- If equipment must cross, travel, or compact over the gas main with less than the minimum depth of cover, earth bridging or steel plates shall be placed over the main and extend a minimum of 1.0 meter on either side at each crossing location.
- Caution must be used to ensure the integrity of the pipeline coating. Any damages to the coating must be reported to and repaired at no cost by Manitoba Hydro prior to backfilling.

Manitoba Hydro believes that there should be no problem with this work however; Manitoba Hydro makes no representations or warranties in that regard.

Please note that all construction drawings requiring review or approval must be mailed to Gas Design, 820 Taylor Avenue (1) Winnipeg, Manitoba, R3M 3T1. If you wish to send construction drawings electronically, they may be sent to GasDesign@hydro.mb.ca.

If you have any questions or comments, please contact the undersigned.

Regards,



Greg Blazek, P.Eng.
Gas Design Section Head
Manitoba Hydro - Gas Design
820 Taylor Ave (1), Wpg. MB., R3M 3T1
P: (204) 360-7707 C: (204) 612-2213
Email: gblazek@hydro.mb.ca

Cc: Vern Los, Gas Supervisor - Notre Dame, Manitoba Hydro
Shane Heiner, Gas Distribution MTCE - Notre Dame, Manitoba Hydro
Ed Kuypers, Gas Program Advisor - Sutherland Ave, Manitoba Hydro
Aaron Dueck, District Service Worker – Henlow Bay, Manitoba Hydro
Wayne Morrell, Gas Design – 820 Taylor Ave, Manitoba Hydro