

APPENDIX 'F'

MANITOBA HYDRO GAS RESPONSE LETTER

June 6, 2024

MH Gas File # 2024-0231

To whom it may concern:

Re: 181-2024 Local Street Renewal Project

Manitoba Hydro (Gas) has reviewed the design submitted by Dillon Consulting Ltd for the pavement rehabilitation and reconstruction. 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

- Proposed road reconstruction occurs over 323.9 mm steel high pressure gas main.
- A Manitoba Hydro Safety Watch is required for all construction activities within 3.0 m of any high-pressure mains.
- Proposed road work cross 114.3 mm and 60.3 mm distribution pressure gas mains.
- During construction, gas mains should not be undermined or exposed past the 3 o'clock and 9 o'clock positions on the cross section of the pipe. All excavations within 1.0 m of any natural gas main must be completed by hand or Hydro-excavation.
- Please locate any mains within 1.0 m or underneath the proposed sidewalk and road construction and investigate to determine depth of cover in relation to both existing and proposed grades. Note that all locating and soft-digging requirements listed below are to be upheld.
- If it is determined that a final minimum depth of cover of 750 mm cannot be maintained for the 114.3 mm and 60.3 mm distribution mains, , or if 1000 mm depth of cover cannot be maintained for the high pressure distribution main, then please contact David Finnbogason at dfinnbogason@hydro.mb.ca to discuss options pertaining to relocations or lowerings as soon as possible. Under normal circumstances, the amount of time required to mobilize for small diameter distribution (114.3 mm and 60.3 mm) relocations or lowerings is approximately 3-5 months. Large diameter mains would require approximately 6-12 months to complete due to engineering, approvals, and construction.

2. High Pressure Natural Gas Main

- Proposed road reconstruction crosses over an existing 323.9 mm high pressure natural gas main on Harbison Ave W. A Manitoba Hydro High Pressure Safety Watch is required for all construction activities within 3.0 m of the high pressure natural gas main.

- Contact “Click before you dig” a minimum of 2 weeks prior to any work commencing within 3.0 m of the high pressure natural gas main to arrange for the pipeline to be properly located and marked by Manitoba Hydro personnel at **ClickBeforeYouDigMB.com** or **Call 1-800-940-3447**. Upon receiving clearances, the excavator will be provided with the phone number of the appropriate District to coordinate a Manitoba Hydro High Pressure Safety Watch.
- Prior to construction at this location, please expose the main by hand or hydro-excavation every 25 m to confirm elevation of the pipe. The elevations & corresponding locations shall be forwarded back to David Finnbogason at dfinnbogason@hydro.mb.ca.
- Once the pipeline depth and location has been confirmed by hand or hydro-excavation, the safety watcher may authorize the limited use of mechanical excavation. A smooth edged bucket must be used for excavations within 3.0 m of the main.
- A minimum 900 mm of cover shall be maintained in all areas where highway rated equipment will be crossing, traveling or compacting over the 323.9 mm gas mains. Vibratory compaction cannot be used over or within 3.0 m of a high pressure main.
- If highway rated equipment must cross, travel, or compact over the gas main with less than the minimum depth of cover, or if equipment heavier than highway rated load cross the main then submit construction/crossing plans to David Finnbogason at dfinnbogason@hydro.mb.ca. Earth bridging or steel plates must be placed over the main and extend a minimum of 1.0 m on either side at each crossing location when crossing with less than minimum cover.
- When working with less than minimum cover, a minimum 300 mm of granular material shall be bladed into place with tracked equipment offset from the pipeline. Then static compaction equipment would be allowed and built up in layers until minimum cover is achieved.
- Subbase material shall be bladed into place as opposed to being end dumped over the 323.9 mm gas main in areas with less than the minimum cover.
- 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.
- The contractor and all site supervisory personnel and equipment operators shall be informed of the risks associated with working adjacent to, and over this pipeline by the Resident Inspector. New site personnel during construction shall be orientated as to the significance and constraints associated with working over and around a high pressure natural gas main.

3. Insufficient Cover

- Absolutely no work including concrete cutting or pavement breaking may occur over the pipeline (regardless of size) until depth of cover is determined.

4. Catch Basin and CB Lead Removal and Installation

- Proposed excavations for the removal and installation of catch basins and leads within 1.0 m of a gas main 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.

- Deep utilities shall maintain a minimum horizontal clearance from natural gas mains of 1.25 m when running in parallel.
- A minimum horizontal separation of 300 mm from gas mains and 100 mm from service lines must be maintained for any new underground structure installations (such as catch basins) excluding directionally drilled, punched, and bored crossings. If an underground structure must be installed with less than the minimum horizontal separation, an underground rigid foam barrier shall be placed over the main for protection. Submit plans for barrier installation to David Finnbogason at dfinnbogason@hydro.mb.ca.
- Underground structure installations above natural gas infrastructure should be avoided. Contact David Finnbogason at dfinnbogason@hydro.mb.ca if installations above facilities are required.

5. Sidewalk Renewals

- Excavations shall be limited to removal of the existing concrete sidewalk. All further excavations within 1.0 m of any natural gas main or service must be completed by hand or soft dig methods.

6. Asphalt Overlays and Road Reconstruction

- When excavations for concrete works are required within 1.0 m 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.

7. 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 during normal working hours.
- Under normal circumstances, the amount of time required to mobilize for this work is approximately 2-3 weeks.
- Please contact Larry Tole at 204-360-5220 or ltole@hydro.mb.ca for any work required on site.

8. General:


- Please note that the requirements of Manitoba Hydro’s Safe Excavation and Safety Watch guidelines shall apply. 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 m of any natural gas main must be completed by hand or Hydro-excavation.
- A minimum separation of 300 mm from gas mains and 100 mm from service lines must be maintained for any new underground structure installations excluding directionally drilled, punched, and bored crossings. If an underground structure must be installed with less than the minimum separation, an underground rigid foam barrier shall be placed over the main for protection. Submit plans for barrier installation to David Finnbogason at dfinnbogason@hydro.mb.ca.
- A minimum 600 mm of cover shall be maintained in all areas where highway rated equipment will be crossing, traveling or compacting over the 60.3 mm gas mains. Vibratory compaction cannot be used over or within 1.0 m of a main.
- A minimum 450 mm of cover shall be maintained in all areas where highway rated equipment will be crossing, traveling or compacting over the gas service lines. Vibratory compaction cannot be used over or within 1.0 m of a service.
- If highway rated equipment must cross, travel, or compact over the gas main with less than the minimum depth of cover, or if equipment heavier than highway rated load cross the main then submit construction/crossing plans to David Finnbogason at dfinnbogason@hydro.mb.ca. Earth bridging or steel plates must be placed over the main and extend a minimum of 1.0 m on either side at each crossing location when crossing with less than minimum cover.
- 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.

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

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

Regards,



David Finnbogason, P.Eng
Manitoba Hydro - Gas Design
360 Portage Ave (16), Wpg. MB., R3C 0G8
P: (204) 360-3570 C: (204) 451-7184
Email: dfinnbogason@hydro.mb.ca

DF/JG

Cc: Larry Tole, Gas Operations MTCE – Sutherland Ave, Manitoba Hydro
Robert Morrison, Damage Prevention – Sutherland Ave, Manitoba Hydro
Aaron Dueck, District Service Worker – Henlow Bay, Manitoba Hydro
Curtis Menzul, Gas Operations MTCE – Sutherland Ave, Manitoba Hydro
Aldo Garofalo, Gas Operations MTCE – Sutherland Ave, Manitoba Hydro