



MEMORANDUM

DATE: FEBRUARY 15, 2024
TO: BENTLEY CRAIN
FROM: MIROSLAV SAVIC
RE: 1 ROGERS ROAD, PERTH, ONTARIO
SERVICEABILITY BRIEF
NOVATECH FILE 124016
CC: LEE SHEETS

Novatech has been retained to review serviceability of the property located at 1 Rogers Road in the Town of Perth, Ontario. The property is currently occupied by a 3-unit dwelling located at the southwest corner of the Rogers Road and Peter Street intersection. It is proposed to sever off the existing dwelling and to retain remaining parcel for a new residential development. The purpose of this memo is to review serviceability of the remaining parcel in support of the severance application.

An aerial of the site and the immediate surrounding area is included in **Figure 1**.

Figure 1: Aerial Photo



For the purpose of this review, the proposed development is assumed to be a single residential dwelling.

Water Servicing

As per the information provided by the City, there is a 150 mm diameter watermain within the Peter Street ROW in front of the property. The proposed dwelling will be serviced by connecting the water service to the existing watermain. Refer to the information provided by the City and Conceptual Servicing Plan enclosed in **Appendix A** for details.

There is a municipal fire hydrant at the southeast corner of the Rogers Road and Peter Street intersection. The hydrant is located less than 90m from the proposed dwelling, meeting the Ontario Building Code (OBC) requirements for maximum path of travel between the building principal entrance and a fire hydrant. The hydrant testing may need to be conducted to confirm available flow and pressure in the exiting watermain.

Sanitary Servicing

There is a 300 mm diameter gravity sanitary sewer and a 100mm diameter sanitary forcemain within the Peter Street ROW. As per the City record drawings, the exiting gravity sanitary sewer is terminated at the sanitary manhole located at the intersection of Peter Street and Rogers Road east of the site. The existing sanitary forcemain runs from Perth Golf Course located at 141 Peter Street and outlets into the manhole at the intersection of Peter Street and Rogers Road.

The existing gravity sewer will need to be extended approximately 37m to the west to service the proposed dwelling. A portion of the 100mm forcemain will have to be removed and re-connected to the proposed sanitary sewer extension at the new manhole. It is proposed to extend the existing sanitary sewer with a 250mm diameter pipe at 0.5% slope. The proposed sanitary sewer extension will have a minimum cover of approximately 1.5m and will need to be insulated. The site grading will need to be designed to allow for gravity connection to the new shallow sewer. The sanitary sewage from the proposed dwelling basement would have to be pumped.

Refer to the City record drawings and Conceptual Servicing Plan enclosed in **Appendix A** for details.

Storm Servicing

The site drains naturally from east to west towards Tay River. There is approximately 2m grade drop from west to east property line. There is an 450mm diameter storm sewer within the Peter Street ROW. The storm sewer outlets via a headwall into a ditch in the Peter Street boulevard in front of the site.

As per the City record drawings, the existing storm 450mm diameter storm sewer in front of the site is very shallow. The proposed dwelling foundation drains will have to be pumped from a sump to the surface. The roof drainage can be directed to the surface via downspouts.

Refer to the City record drawings and Conceptual Servicing Plan enclosed in **Appendix A** for details.

Conclusion

Based on our above noted findings, the subject site is serviceable from the existing municipal watermain and storm sewer. The existing municipal sanitary sewer will need to be extended to service the proposed development.



APPENDIX A



