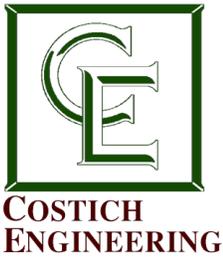


**Appendix K**  
**Supplemental Engineer's Report**



**SUPPLEMENTAL ENGINEER'S REPORT**  
**FISHERS RIDGE - ROUTE 96**  
**Town of Victor, County of Ontario, State of New York**

I. INTRODUCTION

This report details the water distribution and sanitary capacity for the proposed Fishers Ridge Development. The development is located on Route 96 between Rowley Road and Lane Road on a 95.3 acre parcel. The majority of the site is currently undeveloped.

II. SCOPE OF PROJECT

The proposed mixed use development includes retail, office and residential uses to be constructed in multiple phases. The first phase includes the northernmost anchor retail parcel, parking areas, access roads, and stormwater management facilities. The remaining buildings will be constructed in later phases. The calculations within this report are based on total build out. The following sections summarize the proposed water usage, disposal and fire protection. Following the narrative are appendices with corresponding calculations.

III. SANITARY SEWERS

Two existing 8" diameter dedicated Town of Victor sanitary sewers are located on the site's Route 96 frontage. One is located at the southeast corner of Lane Road and Route 96 which flows southeasterly to the Village of Victor wastewater treatment plant. The second is located at the intersection of proposed "Road A" which drains southwesterly to a Town of Victor pump station (PS #29), eventually discharging to the Farmington Wastewater Treatment Facility. Based on a meeting with representatives from the Farmington Water and Sewer District (FWSD), facilities downstream of the two (2) Route 96 connection points have existing capacity issues that would require system upgrades.

As suggested, we are looking at an alternative connection point, an 8" sewer located on Aldridge Road. Based on as-built information provided, access to this location via High Street appears feasible. In order to convey sanitary sewerage from the proposed development to the existing town dedicated sewer on Aldridge Road, a pump station and force main must be constructed. Preliminary evaluation indicates that the pump station could be constructed at the lower elevations of the Fishers Ridge Development, allowing all of the flows generated to be collected and conveyed to the Aldridge Road sewer. The force main would exit the Fishers Ridge Development site at the High Street/NYS Thruway underpass whereby existing right-of-way would need to be utilized to accommodate the proposed force main.



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Average daily flows were calculated based on the "NYSDEC Design Standards for Intermediate-sized Wastewater Treatment Systems", dated March 5, 2014. Proposed uses are summarized on Drawing number CA130 entitled, "Overall Site Plan". Estimated flows equal 253,350 gallons per day. This estimate is conservative due to the high square footage of restaurant use. FWSD indicated the treatment facility has sufficient capacity to service this development.

#### IV. WATER DISTRIBUTION SYSTEM

An existing 12" diameter dedicated Monroe County Water Authority (MCWA) watermain is located on the north side of Lane Road in the 890 elevation zone. Hydrant flow data supplied by the MCWA is as follows:

##### Hydrant Flow Test Data

Test Location: Lane Road

Static Pressure: 82 psi

$Q_{20} = 4,401$  gpm

Residual Pressure: 74 psi

Observed Flow: 1,432 gpm

There is also an existing 8" diameter watermain located on the south side of Route 96 which is in the MCWA 790 elevation zone. The MCWA does not want a new connection between the two pressure zones and will service the project site from Lane Road. As part of the site improvements, the two roads into the project from Route 96 are proposed to be dedicated. The dedication of the right-of-way will create new lots and the MCWA has agreed to take the new watermain for dedication which would service all the lots versus running individual private services to each lot.

The maximum fire flow demand will be for the sprinkler system for the anchor retail building located adjacent to the thruway at the highest elevation. A conservative sprinkler demand of 2,500 gpm was modeled and results indicate a residual pressure at the future right-of-way line of 29 psi. Backflow prevention will be provided on the private combined services to each lot. Peak domestic demand for the entire development will be lower than the 2,500 gpm sprinkler demand for the anchor retail.

#### V. REPORT SUMMARY

In summary, the existing site and utility infrastructure pose no restrictions to the proposed development for sanitary sewer collection or water distribution needs.