

# Memorandum

**To:** Dan Cox  
Concrete Nor' West

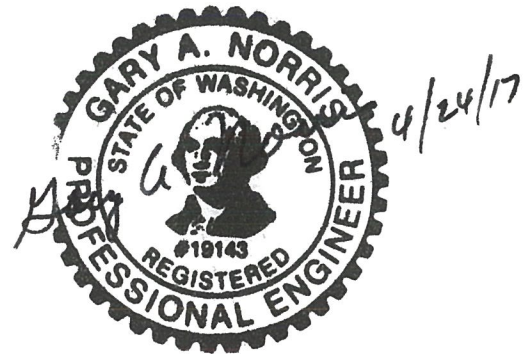
**From:** Gary Norris, PE, PTOE  
DN Traffic Consultants

**Date:** November 30, 2016

**Subject:** Grip Road Gravel Pit

**Re:** Maximum Daily Truck Traffic

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## Summary

The following memorandum was prepared in response to your request to document the basis for the estimated maximum truck volume to be generated by the proposed Grip Goad Gravel Pit.

The traffic impact analysis prepared for the gravel pit operation assumed 200,000 tons of gravel would be processed from the pit on an annual basis. From this assumption, it was estimated that 5,883 trucks per year, or 11,765 round trips of gravel hauling trucks would be required to haul this volume. Limiting hauling times to off peak hours, or six hours per day, for 260 working days per year results in 46 trips per day or 8 vehicles per hour. The TIA used a volume of eight (8) trucks per hour as an average volume during the off-peak hours of 9 AM to 3 PM.

The County Planning staff desired to establish a maximum hourly restriction for gravel trucks serving the Grip Road pit. From the roadway standpoint, the limiting factor would be the volume of trucks during the peak hour that an intersection could serve without exceeding the Skagit County Road Standard level

of service of LOS C.<sup>1</sup> As shown in the Traffic Impact Analysis, the current level of service for worst case movement (eastbound) at the Old Highway 99/Prairie Road intersection is LOS C. With the addition of approximately 110 truck trips during the PM peak hour the level of service would drop to LOS D, exceeding the County Road Standard of LOS C.

In our conversation, it was understood there wasn't enough dump trucks with pups in Skagit County to provide this volume of truck traffic for the pit operation. A more realistic number was determined to be 30 trucks or 60 trips per hour.

Therefore, the suggested maximum limit based on the availability of 30 dump trucks was determined to be 60 truck trips per hour, or 720 truck trips per day.

If you have any questions, please let me know.

Thanks

Gary

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<sup>1</sup> Skagit County Road Standards, Version 5.2, May 26, 2000