

Technical Memorandum

February 24, 2025

To	Mr. Greg Robichaud	Contact No.	[REDACTED]
Copy to		Email	[REDACTED]
From	Vanessa Skelton	Project No.	12580438
Project Name	TIS Pecks Marina Boat Storage		
Subject	Traffic review for Fitzsimmons Road		

1. Introduction

GHD prepared a review of truck movement on Fitzsimmons Road to support a boat storage facility for Peck's Marina at the southeast corner of Fitzsimmons Road and Granite Ridge Road in the Township of Leeds and the Thousand Islands. The development will have one access from Fitzsimmons Road. The road aims to facilitate the transportation of large boats to the storage facility. The road needs to accommodate oversized loads, which will require modifications to improve accessibility and improve safety for efficient transport.

2. Traffic Impacts

With lengths of the boat-trailer units reaching up to 20 meters, the existing roadway widths in combination with tight road radii suggest that road widening will be required to access the property in question. Without widening, trucks will encroach into the opposing lanes. Further, it is suggested that tree clearing within the roadway be completed to increase visibility along the curves.

Road widening is recommended for the two major curves on Fitzsimmons Road between Thousand Islands Parkway and Granite Ridge Road. A geometric analysis using AutoTurn confirms that both boat-trailer units and standard semi-trailers can navigate these curves without conflicts with some widening.

Based on this analysis, the road should be widened 2m on east side and 3m on the west side for about 90 metres for the first curve. For the second curve, widening of 3m should occur only on the west side for about 160 metres.

These roadway widenings and geometric improvements will allow two-way traffic flow for boat-trailer units. The work will include vegetation clearing and grubbing, earth and rock excavation, drainage system modifications (culvert relocations), and roadway widening in compliance with municipal standards.

Regards,



Vanessa Skelton, P. Eng.

Project Manager, Transportation

[REDACTED]
[REDACTED]

Site Plan



LEGEND :

PROPOSED SECTION OF ROAD WIDENING

ELECTRICAL POLE (APPROXIMATED)

PRELIMINARY

No.	Issue	Checked	Approved	Date
Author	Drafting Check	Project Manager		
Designer	Design Check	Project Director		

Bar is 25mm on original size sheet
0 25mm



GHD Ltd.
179 Colonnade Road South, Suite 400
Ottawa, Ontario K2E 7J4 Canada
T 613 727 0510



Client

Project

Project No.
12580438

Date

Title
FITZSIMMONS ROAD WIDENING

Scale
1:1000

Sheet No.

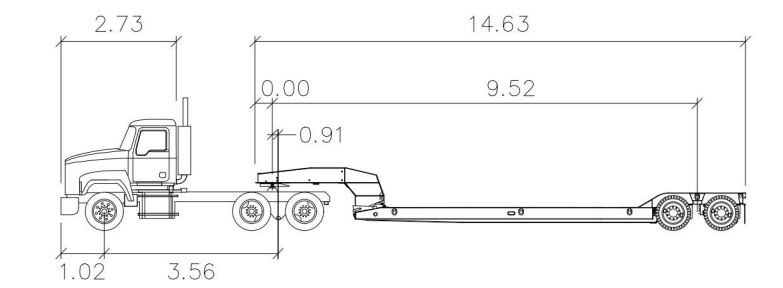
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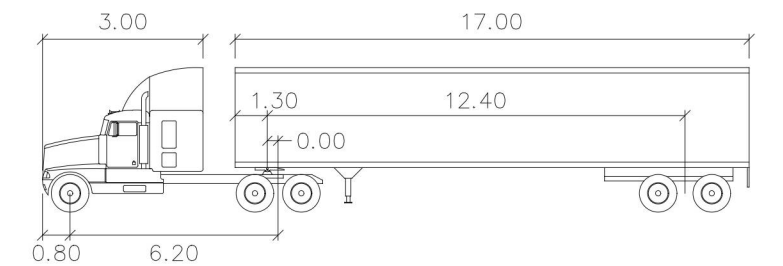
LEGEND :

PROPOSED SECTION OF ROAD WIDENING

ELECTRICAL POLE (APPROXIMATED)



Boat Trailer Fitz			
meters			
Tractor Width	: 2.50	Lock to Lock Time	: 6.0
Trailer Width	: 3.93	Steering Angle	: 40.0
Tractor Track	: 2.50	Articulating Angle	: 70.0
Trailer Track	: 3.93		



WB-20			
meters			
Tractor Width	: 2.60	Lock to Lock Time	: 6.0
Trailer Width	: 2.60	Steering Angle	: 28.2
Tractor Track	: 2.60	Articulating Angle	: 70.0
Trailer Track	: 2.60		

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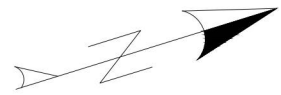
Date

Title **CURVE WIDENING
SWEEP PATH**

Scale

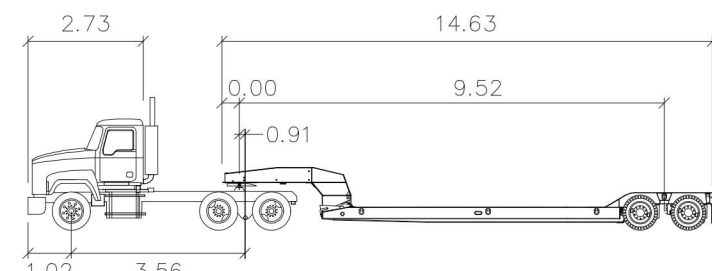
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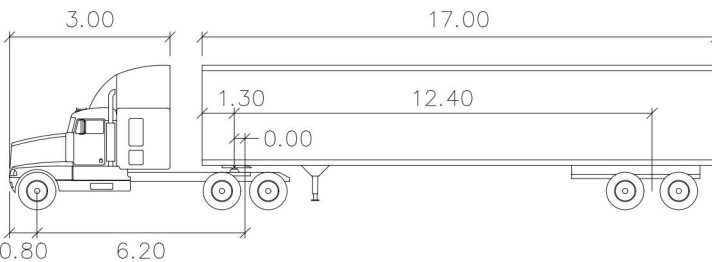
LEGEND :

- PROPOSED SECTION OF ROAD WIDENING
- ELECTRICAL POLE (APPROXIMATED)



Boat Trailer Fit

meters			
Tractor Width	: 2.50	Lock to Lock Time	: 6.0
Trailer Width	: 3.93	Steering Angle	: 40.0
Tractor Track	: 2.50	Articulating Angle	: 70.0
Trailer Track	: 3.93		



WB-20

meters			
Tractor Width	: 2.60	Lock to Lock Time	: 6.0
Trailer Width	: 2.60	Steering Angle	: 28.2
Tractor Track	: 2.60	Articulating Angle	: 70.0
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Client

Project

Project No.

Date

Title **WB-20 AND CUSTOM BOAT TRAILER**

Scale

Sheet No.

Size
ISO A1

Site Images







