

ROEN SALVAGE COMPANY

180 E. REDWOOD ST. STURGEON BAY, WI 54235 920-743-6533 FAX: 920-743-2411



MARINE CONTRACTORS

To: Dan Koski and Greg Minikel

City of Manitowoc

900 Quay Street, Manitowoc, WI

RE: Usage of Quay Street Dock for Loading of Concrete Trucks

Roen Salvage would like to use the Quay Street dockwall to load concrete trucks onto our deck barge for repairs to the pierhead on the North Breakwater of Manitowoc Harbor. Our plan for using the property and dockwall is detailed below. Would the City of Manitowoc be open to allowing Roen Salvage to use the property as described?

Schedule:

One hundred cubic yards of concrete is planned to be placed in mid-September. The concrete placement will take place on three non-consecutive days. Each day of placement will require four trucks to be loaded onto Roen's barge in the morning and unloaded one to two hours later.

Road traffic along Quay Street will not be impacted during loading/unloading operations. Sidewalk traffic will be closed during each loading/unloading operation for approximately one half of an hour.

Location:

Loading will take place directly across Quay Street from the intersection with South 5th Street. A steel loading ramp will be left in place on shore during the concrete placement process. The proposed truck access, loading ramp, and deck barge locations are shown in the following figure.

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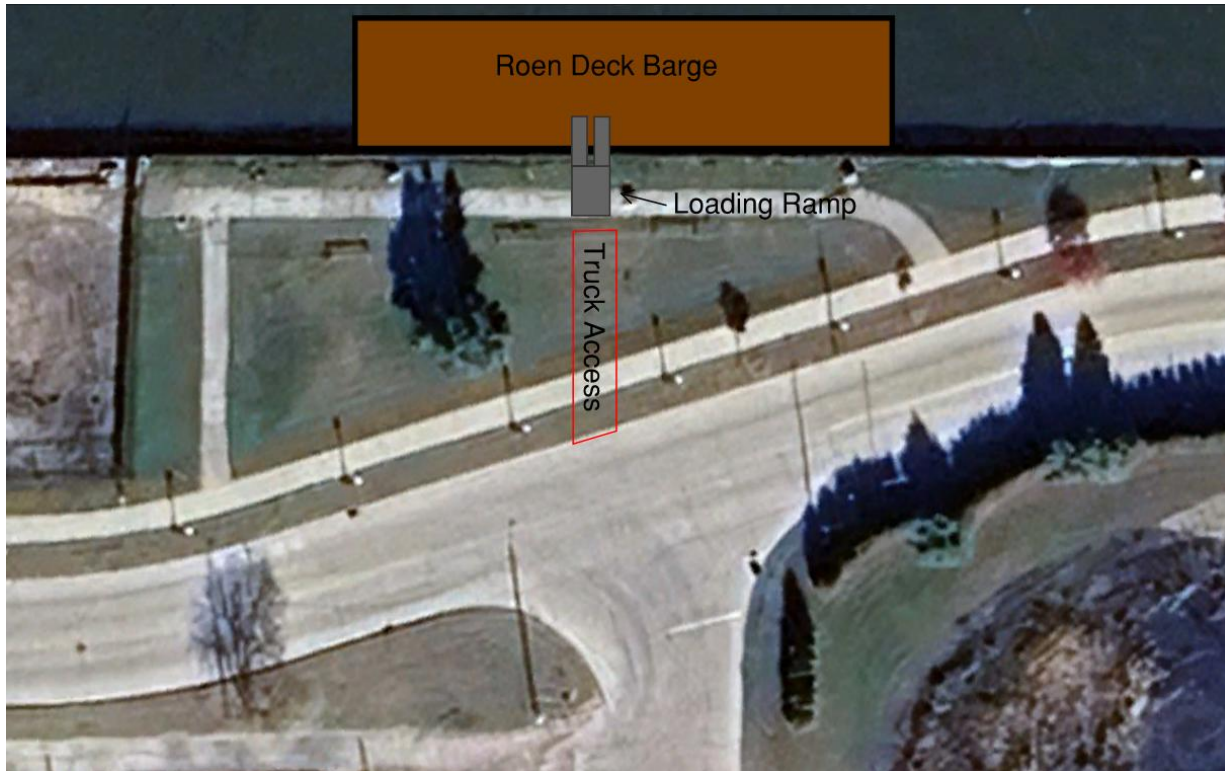


Figure 1: Plan View of Loading Area

Protection of Existing Features

During the loading process the, no weight will be applied directly to the steel sheet pile wall. Loads will be carried by the ramp, the barge, and crane mats used beneath the ramp. The weight of the ramp base and the rear axle of a concrete truck is the maximum anticipated load. This will be distributed across the ground beneath the ramp base at a loading of 550 psf. Below is a diagram of how the ramp will be situated as well as a photograph of the ramp.

The curb will be protected by placement of dunnage in the gutter. This will allow trucks to roll over the curb without applying their full pressure to the concrete. Plywood will be used beneath the truck route over grass and sidewalk to minimize the risk of damage.

It is anticipated that grading and seeding may need to be performed after work is complete. Roen will take responsibility for this. Roen will also take liability for any damage done to the concrete sidewalk and curb. Cracked sections caused by concrete trucks will be removed and replaced by Roen Salvage.

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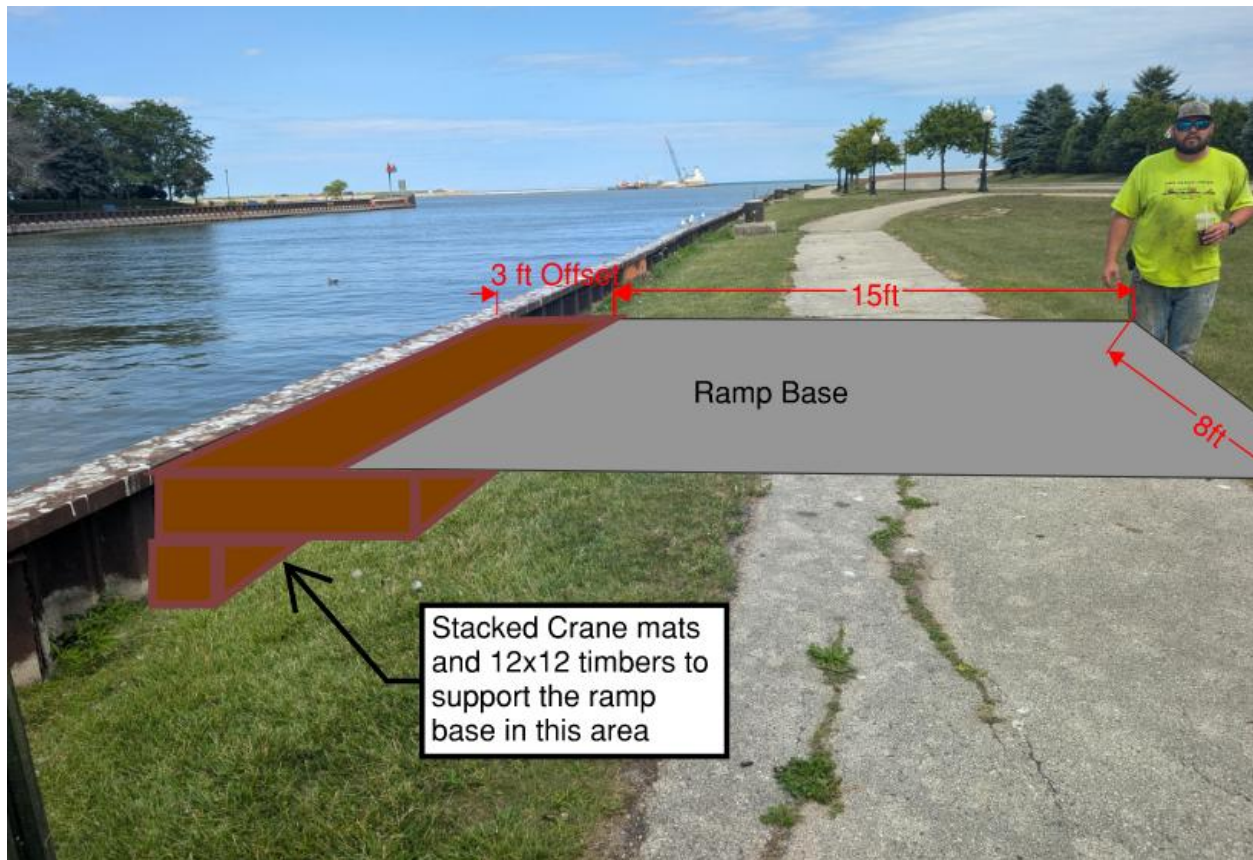


Figure 2: Proposed Layout and support of Loading Ramp



Figure 3: Loading ramp

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Thank You,

Peter Huber

Project Engineer

Roen Salvage Company

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