



**CITY OF TONKA BAY**

4901 Manitou Road  
Tonka Bay MN 55331  
Phone: 952-474-7994  
www.cityoftonkabay.net

**ITEM NO. 9B**

# Memo

To: Mayor and City Council  
From: Robin Bowman, Public Works Superintendent  
Date: January 26, 2016  
Re: Manhole Lifter

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The League of Minnesota Cities conducted a safety audit last summer and found that Public Works staff would benefit by having a manhole lifter to reduce or eliminate back strain from lifting manholes. We currently have a pick style. A manhole lifter is a power type that mounts to a vehicle.

Staff had a difficult time obtaining comparable quotes. Public Works would like a lifter that is hydraulic and includes a camera system. Most of the lifters do not come with this feature; rather most still have staff using their body to do the lifting. An example of this is the Allegro product. Due to cost, this is the most common lifter.

The Industrial Magnetics, Inc. lifter works off of a power winch on a cable. The down fall on this product is that staff would still have to set the magnet every time you pick up a manhole and place it. Staff would be getting in and out of the truck twice as much as if they did it the existing way, also with no camera or monitor.

Staff is recommending the Rock Mills product based on back safety, time saved from getting in and out of the truck, and eliminating most of the lifting. Attached you see the other two do not compare in design.

<u>Vender</u>	<u>Total Cost Estimate</u>
Allegro	\$1,367.75 + shipping
Industrial Magnetics, Inc.	\$3,955.43 + shipping
Rock Mills	\$5,685.00 + shipping

**Attachments**

Insert from the LMC ergonomic survey  
Quote from Allegro

Quote from Industrial Magnetics, Inc  
Quote from Rock Mills

### **Funding Source**

In the 2016 Equipment CIP fund the city has a manhole lifter listed for \$6,400.00. Staff is recommending the City purchase from Rock Mills in the amount of \$5,685.00 + shipping. Staff will also be applying for a grant from OSHA for up to 50% matching funds with hopes of receiving reimbursement in the spring.

### **Council Action**

Discuss and make a motion to purchase the manhole lifter from Rock Mills. Motion to direct staff to enter into an agreement with Rock Mills for purchase of manhole lifter.

Insert from the League of Minnesota Cities. Ergonomic survey that was conducted last summer.

### **3-6/15 Improve the ergonomics of removing manhole covers from the current pick method to magnet device to reduce stresses on the upper body and lower back for a high risk task.**

Our experience with other cities indicates that moving manhole covers is a higher risk task that has contributed to numerous employee injuries. The city currently owns a portable magnetic lifter but it is used infrequently and it is thought to be bulky and inconvenient which equals ineffective. Several options are available to minimize the force needed to move these covers. We discussed the option of installing a magnetic lifter on the jetter to eliminate this high risk exposure. Another magnetic lifting device could be mounted to the pickup truck used as a spotting vehicle for the same purpose. There are a number of different lifters available on the market.

(Pick Method)



(magnetic lifter)



Recommendations and comments are provided for loss control and risk exposure improvement purposes only in conjunction with the insurance program referenced above. They are not made for the purpose of complying with the requirements of any law, rule or regulation. We do not infer or imply in the making of these recommendations and comments that all sites were reviewed or that all possible hazards were noted. The final responsibility for conducting loss control and risk management programs must rest with the insured.

Quote from Allegro



ALLEGRO

**Allegro 9401-26A Magnetic Lid Lifter Aluminum Dolly 900lbs**

\$1,367.75

SKU:

9401-26A

Shipping:

Calculated at checkout

Quantity:

Quote from Industrial Magnetics, Inc



**Industrial Magnetics, Inc. ~ Shopping Cart**

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Quantity	Product	Price	Total	Remove
<input type="text" value="1"/>	<b>MCLPAE2000 - Manhole PowerArm Electric Winch</b> 	\$1,895.25	\$1,895.25	<input type="button" value="X"/>
<input type="text" value="1"/>	<b>VL1200 - VersaLift Magnet Rare Earth On/Off Design!</b> 	\$1,725.00	\$1,725.00	<input type="button" value="X"/>
<input type="text" value="1"/>	<b>MCLBA12 - Manhole PowerArm front bumper hitch adaptor</b> 	\$335.18	\$335.18	<input type="button" value="X"/>

Coupon code (optional):

Subtotal: \$3,955.43

**Total: \$3,955.43**

*(before shipping & taxes)*

Quote from Rock Mills



**ROCK MILLS**  
ENTERPRISES

**Prepared for:** *City of Tonka Bay*  
*4901 Manitou Road*  
*Tonka Bay, MN 55331*  
*ATTN: Robin Bowman Superintendent of Public Works*  
*952-474-2947*  
*rbowman@cityoftonkabay.net*

**Quotation prepared by:** Paul

Date	Our Quote #	Sales Rep.	FOB	Ship Via	Terms	Tax ID	Proposed Shipping Date
July 1, 2015	070115	DM	Rock Valley IA	Best way	Net 20		2 weeks from receipt of order

Item	Description	Unit Price	Total
TW 3000	The Lifter, with camera/monitor system	\$4,995.00	
SA -10	Swing Arm	\$ 690.00	

**\*one year warranty on all parts, 2 years on camera/monitor**