

Item 7b.

Sunfish Lake Engineer's Report for January 8, 2013

By: Don Sterna, PE, City Engineer

Date: January 3, 2013

1. Engineering Activities Undertaken in the Month of December

This past month was a slow month for engineering activities in the City as the following engineers report indicates:

Inver Grove Heights Storm Sewer Improvement Cost Participation Request –

In December, I received a call from the City Engineer for Inver Grove Heights, Mr. Tom Kaldunski, regarding a regional pond outlet repair located within the city limits of Inver Grove Heights. The pond receives water from the communities of West St. Paul, South St. Paul, and MnDOT, along with Sunfish Lake. The pond, known as the Trail Court Pond, needs repair to the emergency overflow pipe which is damaged and causing drainage problems in Inver Grove Heights. The repairs are estimated to cost around \$312,000 to repair, and both MnDOT and Inver Grove Heights are requesting assistance in funding the project since the pond receives drainage from several communities, as well as MnDOT. The City of Sunfish Lake accounts for around 9.5% of the total drainage area that contributes to this pond, however, most likely contributes less volume due to the rural nature of the City.

I have attached a copy of the letter for your information regarding the request. At this time, the Lower Mississippi River WMO will be conducting a cost-allocation study to look at several funding allocation scenarios as outlined in their LMRWMO policies. The study will be authorized in January, and the report should be completed in April this spring. At that time, the allocation study will be distributed to the communities for review, and hopefully, the affected communities will agree on a fund participation agreement. The cost implications to Sunfish Lake, if we only looked at the contributing drainage area, would be around \$29,650. However, based on the amount of ponds and lower density population, the contribution should be less than this value.

At this time, I wanted to bring this issue forward so the Council is aware of the drainage repairs issue and that the City has been asked to be a partner in the repairs.

Harmon Park Address Change – The address change request for Harmon Park was submitted to Dakota County GIS Department to formally change the address for Harmon Park to 2450 Angell Road. A copy of this request was also sent to the Police and Fire Chief for their reference as well. In regards to Google's listing of the address, we still have not

received any response from our request back in 2012. Hopefully, by working through Dakota County, the new address will be adopted by Google.

2. Public Works' Activities Undertaken in the Month of December

Snow Plowing Activity – The current snow plow expenditures through December 25, 2012, have been \$2,954 out of a budget of \$35,000. I received three calls of which two were about slippery road conditions, and the third was a request to remove ice and snow during the warm stretch right after the first major snow fall in December. The snow plow contractor has been monitoring the roadway conditions and calls when he has seen road conditions that need attention before he proceeds with additional sanding and or plowing. Please let me know if you do receive calls from residents regarding snow and ice removal concerns so I am able to notify the contractor and provide clear direction on what needs to be done.

3. Anticipated Engineering and Public Works' Activities for the Month of January

2013 CIP Project Preparation – In 2012 the City adopted a CIP which provides a map for maintaining the City's infrastructure. The CIP identified two projects for 2013 which were included in the City's 2013 budget. The projects involve seal coating Grieve Glen Lane, Acorn Drive, Zehnder Road, Roanoke Road and the eastern section of Salem Church Road from Roanoke Road to TH 3. The budget identified \$35,000 in costs for this work along with \$5,000 in street sign upgrades. In January, I will be preparing an engineer's cost proposal and schedule for each project for the Council to approve before we would begin preparing the documents necessary for the procurement of this work.

At this time, there are no other planned City engineering activities for the month of January.

The above constitutes the Engineering Report for the City of Sunfish Lake for January 8, 2013.

Respectfully submitted,

WSB & Associates, Inc.



Donald W. Sterna, PE
City Engineer

sm



City of Inver Grove Heights

www.ci.inver-grove-heights.mn.us

December 7, 2012

Re: Cost Allocation Review for a Proposed Emergency Overflow (EOF) from Regional Basin T-23 (Mn/DOT's Trailer Court Pond)

LMRWMO Board of Managers,

The City of Inver Grove Heights has been approached by Mn/DOT (Water Resources Division) regarding an emergency overflow pipe from Regional Pond T-23 in the City of Inver Grove Heights. This pond is owned by Mn/DOT and sometimes referred to as the Trailer Court Pond. A map illustrating the emergency overflow is attached for reference. A watershed map is also enclosed for reference.

Preliminary discussion has been had between the cities of Inver Grove Heights, South St. Paul and Mn/DOT regarding this emergency overflow. Mn/DOT had significant issues on I-494 in the mid 2000s following an extreme storm event (10-11" of rain). This EOF has been modeled by the Inver Grove Heights' consultant, Barr Engineering, and the model indicates the EOF would have functioned in this extreme event.

Mn/DOT has indicated that they will provide \$62,400 in funding toward the improvements to the EOF. This is based upon an assumption using the drainage areas on the watershed map. Our preliminary review estimated a project cost of \$312,000. Inver Grove Heights is willing to be the lead agency on the project.

The attached table outlines watershed data as it relates to drainage area jurisdiction in the contributory watershed.

Name	Basin Area in each City (acres)	Mn/DOT area in Basin, by City (Acres)	Adjusted Basin Area for each City*	Adjusted Percentage of Basin Area for each City
West St. Paul	303.1	1.2	302.0	17.0%
South St. Paul	1.4	0.4	0.9	0.1%
Inver Grove Heights	1226.8	290.6	936.2	52.6%
Sunfish Lake	248.3	79.3	169.0	9.5%
Mn/DOT	--		371.5	20.9%
TOTAL	1779.5		1779.5	100.0%

*Total basin area for each City, minus the intersecting Mn/DOT area. Math discrepancies are caused by rounding.

The City of Inver Grove Heights recognizes that this project deals with intercommunity flows and cost allocations for the improvements. The City of Inver Grove Heights hereby requests that the LMRWMO review the project and authorize a cost allocation study as outlined in the LMRWMO policies.

Sincerely,

Thomas J. Kaldunski, P.E.
City Engineer

TJK/kf

cc: Scott D. Thureen, Public Works Director
Matt Saam, West St. Paul
John Sachi, South St. Paul
Tim Hanson, Sunfish Lake/WSB
Laura Jester, SWCD

8150 Barbara Ave. • Inver Grove Heights, MN 55077-3412
Telephone: 651-450-2500 • Fax: 651-450-2502



Minnesota Department of Transportation

Metro District

Office of State Aid
1500 West County Rd B2
Roseville, MN 55113-3174

2011-04

Telephone: 651-234-7776
phillip.bergem@state.mn.us

July 5, 2012

Mr. Tom Kaldunski, PE
City Engineer
City of Inver Grove Heights
8150 Barbara Ave
Inver Grove Heights, MN 55077-3412

RE: Proposed T-23 Pond Project

Dear Mr. Kaldunski:

Per our discussion last Friday, MnDOT will commit to providing the City with up to \$62,400 in funds for construction of improvements to pond T-23, also known as the Trailer Court Pond near I-494 and 7th Avenue South. You or your design consultant will need to coordinate with Metro Water Resources staff. Plans will also need to be reviewed by and receive approval from Water Resources and the Metro Cooperative Agreements groups. Your contact at Water Resources is Scott Carlstrom. My understanding is that the City aims to let the project in March 2013.

Please let me know if you have any questions at this stage of the project.

Sincerely,

Phillip Bergem, PE
Cooperative Agreements Engineer
Metro State Aid

cc: Scott Carlstrom *
Beth Neuendorf *
Sheila Kauppi *
Cindy Krumsieg *
Greg Coughlin *

* Electronic copies

An Equal Opportunity Employer



2/20/2012

City Project 2011-03
POND T-23
STORM SEWER IMPROVEMENTS

3/22/2012
PREPARED BY: PTH

ITEM NO.	ITEM	UNIT	ESTIMATED QUANTITY	UNIT PRICE	TOTAL ESTIMATED PRICE
2021.501	1 MOBILIZATION	LS	1.0	\$ 3,000.00	\$ 3,000.00
2101.502	2 CLEARING	TREE	10.0	\$ 250.00	\$ 2,500.00
2104.507	3 GRUBBING	TREE	10.0	\$ 250.00	\$ 2,500.00
2104.501	4 REMOVE EXISTING CURB AND GUTTER	LF	31.0	\$ 7.00	\$ 217.00
2104.501	5 REMOVE FENCE	LF	40.0	\$ 5.00	\$ 200.00
2104.505	6 REMOVE BITUMINOUS PAVEMENT	SY	1300.0	\$ 6.00	\$ 7,800.00
2104.501	7 REMOVE BITUMINOUS DRIVEWAY PAVEMENT	SY	60.0	\$ 6.00	\$ 360.00
2104.501	8 REMOVE SEWER PIPE (STORM)	LF	30.0	\$ 10.00	\$ 300.00
2104.509	9 REMOVE MANHOLE OR CATCH BASIN	EA	1.0	\$ 250.00	\$ 250.00
2105.501	10 COMMON EXCAVATION (P)	CY	415.0	\$ 12.00	\$ 4,980.00
2105.525	11 SELECT TOPSOIL BORROW (LV)	CY	15.0	\$ 13.00	\$ 195.00
2123.610	12 STREET SWEEPER (WITH PICKUP BROOM)	HOURL	2.0	\$ 120.00	\$ 240.00
2211.501	13 AGGREGATE BASE, CLASS 5	TON	700.0	\$ 15.00	\$ 10,500.00
2211.501	14 AGGREGATE BASE, CLASS 5 (100% CRUSHED LIMESTONE)	TON	22.0	\$ 22.00	\$ 484.00
2357.502	15 BITUMINOUS MATERIAL FOR TACK COAT	GAL	65.0	\$ 6.00	\$ 390.00
2360.501	16 TYPE SP 9.5 WEARING COURSE MIX (3,B)	TON	155.0	\$ 55.00	\$ 8,525.00
2360.501	17 TYPE SP 12.5 NON- WEARING COURSE MIX (3,B)	TON	155.0	\$ 55.00	\$ 8,525.00
2360.604	18 2.5" PITUMINOUS DRIVEWAY PAVEMENT	SY	60.0	\$ 20.00	\$ 1,200.00
2503.541	19 27" RC PIPE 3006 CLASS III	LF	620.0	\$ 35.00	\$ 21,700.00
2506.502	20 CONSTRUCT DRAINAGE STRUCTURE DESIGN 48-4020	EACH	5.0	\$ 2,100.00	\$ 10,500.00
2506.602	21 CONNECT TO EXISTING STORM SEWER	EACH	2.0	\$ 200.00	\$ 400.00
2531.501	22 CONCRETE CURB AND GUTTER DESIGN B-618 (HAND POUR)	LF	31.0	\$ 30.00	\$ 930.00
2557.603	23 SALVAGE AND REINSTALL FENCE	LF	30.0	\$ 15.00	\$ 450.00
2563.601	24 TRAFFIC CONTROL	LS	1.0	\$ 500.00	\$ 500.00
2575.605	25 SEEDING, MNDOT MIX 250	ACRE	0.1	\$ 1,100.00	\$ 110.00
2575.605	26 SEEDING, MNDOT MIX 270	ACRE	0.1	\$ 1,300.00	\$ 130.00
27	27 EXPLORATORY EXCAVATION	EACH	1.0	\$ 467.50	\$ 467.50
28	28 EASEMENT ACQUISITION	ACRE	0.13	\$ 150,000.00	\$ 19,500.00
29	29 LINE EXISTING 24" STORM SEWER PIPE	LF	407.5	\$ 98.16	\$ 40,000.20
30	30 PRIVATE CONSULTANT	EACH	1.0	\$ 64,000.00	\$ 64,000.00
TOTAL					\$ 210,853.70
TOTAL CONSTRUCTION COST					\$ 210,853.70
20% CONSTRUCTION CONTINGENCY					\$ 42,170.74
28% LEAF					\$ 59,039.04
TOTAL WATER MAIN COST					\$ 312,063.48