



## Agenda Item Executive Summary

**Title:** Stormwater Monthly Summary Report

**Presenter:** Steven M. Saunders, Director of Public Works/Village Engineer

**Agenda Date:** 02/16/2016

**Consent:**  YES  NO

- |                                     |                         |
|-------------------------------------|-------------------------|
| <input type="checkbox"/>            | Ordinance               |
| <input type="checkbox"/>            | Resolution              |
| <input type="checkbox"/>            | Bid Authorization/Award |
| <input type="checkbox"/>            | Policy Direction        |
| <input checked="" type="checkbox"/> | Informational Only      |

### Item History:

Monthly Report

### Executive Summary:

The Village Council has placed a standing item in its regular meeting agenda for updates on the Village's progress towards providing relief from stormwater and sewer flooding. This monthly report brings together status, cost, and schedule information, for each separate stormwater project, in one place.

The report includes a summary Agenda Report, which provides a brief outline and summary of each major stormwater project currently being undertaken by the Village. The report also contains a program budget, providing financial information for the stormwater and sanitary sewer improvement programs.

### Recommendation:

Informational report - no action required.

### Attachments:

1. Project Summary Report
2. Program Budget

## **Agenda Report**

**Subject: Stormwater Update – February 2016**

Prepared By: Steven M. Saunders, Director of Public Works/Village Engineer

Date: February 11, 2016

### **Active Projects**

#### **Non-STADI Alternative Evaluation**

##### Activity Summary

On October 6, 2015, the Village contracted with Strand Associates for engineering services to re-evaluate the Village's western drainage basins for creative, cost-effective non-STADI improvements for storms ranging from the 10-year to the 100-year event, taking into account the Village's flood-control goals and objectives. The scope contains a holistic approach to this project, to include consideration of grey and green infrastructure approaches, conveyance, detention, retention, infiltration, property buyout or individual protection retrofit programs, and a host of other traditional and emerging stormwater management technologies. The contract contains an April 2016 completion date.

Strand held their initial Awareness Phase Public Open Houses on January 21 and January 23 at Washburne School. These meetings focused on communicating the results of model verification and their early observations, and listening to the community to receive public input on experiences in these flood-prone areas. After a brief introductory presentation, residents attended breakout stations to view model predictions of flooding under current conditions, share their flooding observations to help Strand confirm the hydraulic modeling, learn about the wide variety flood reduction techniques that might be considered for sub-areas, and provide direct comments and input.

Strand is preparing for the next set of public meetings, the Exploration Phase, scheduled for March 3, from 6:00 p.m. to 8:00 p.m., and March 5, from 10:00 a.m. to 12:00 p.m., at the Winnetka Community House, in Matz Hall. Similar to the January Open Houses, the March meetings will include both a presentation from Strand and breakout sessions. Strand will review Study findings to-date, share public input and suggestions received, outline identified alternatives and measured effectiveness, discuss levels of service, and continue to gather feedback on flood reduction strategies and alternatives.

The Village will be mailing a large-format postcard specifically designed to promote the Exploration Phase Open Houses to all Village households. In addition to the postcard, the Village will publicize the Open Houses through the Village website news, E-Winnetka, Stormwater E-Alerts, and a Press Release. We also continue to add content to the new Stormwater Alternatives Evaluation portion of the Village website (<http://www.villageofwinnetka.org/residents/stormwater-alternatives-evaluation/>).

Budget Summary Strand Associates' contract fee for this work is \$256,050. The Village has expended \$107,453 to date.

6-Month Look Ahead The project team will:

1. Undertake the evaluation
2. Provide regular progress updates to the Council and community

## **Boal Parkway Neighborhood Improvements**

Activity Summary In 2014, the Village of Winnetka participated in the development of a "Water Solutions Project", funded by an "IKE" Grant administered by the Illinois Department of Commerce and Economic Opportunity. The focus of the grant was on community planning to address the needs and issues of the population groups most significantly impacted by the 2008 floods associated with Hurricane Ike. The Water Solutions Project was a series of four pilot studies in three communities and a template that was to be used for future studies. Winnetka's participation role in the study was the investigation of flooding along Boal Parkway. Among other recommendations, this study identified a stormwater pumping station to reduce the duration and extent of flooding resulting from smaller, more frequent storm events.

Staff has prepared a "Request For Proposals" for engineering services to design and permit the recommended pump station, and anticipate a potential contract award in March. Construction is anticipated in 2017.

Budget Summary The FY 2016 budget contains \$50,000 for engineering this project.

6-Month Look Ahead The project team will:

1. Award an engineering contract
2. Begin engineering design

## **Public Outreach**

Activity Summary Recent activity has focused on promotion of the Stormwater Alternatives Study, including a great deal of new website content from Strand. We would like to call attention to a simulation of the July 2011 storm event Strand has prepared. The video is posted online at: <http://www.villageofwinnetka.org/residents/stormwater-alternatives-evaluation/study-approach/watershed-findings>. To-date, the Village has already registered 60 plus subscribers to our new Stormwater E-Alerts feature. We also encourage residents to provide Strand further feedback about flooding experiences. A form has been created on the Village website to submit information (<http://www.villageofwinnetka.org/residents/stormwater-alternatives-evaluation/public-meeting-highlights/open-house-feedback/>). Residents may also submit photos documenting flooding directly via [stormwatercomments@winnetka.org](mailto:stormwatercomments@winnetka.org).

In January, Staff completed the migration of the Stormwater Management Program dedicated website to the Village website. Residents will now find all the content formerly posted at [www.winnetkastormwaterplan.com](http://www.winnetkastormwaterplan.com) under the heading of Stormwater Management Program at: [www.villageofwinnetka.org/residents/stormwater-management-program/](http://www.villageofwinnetka.org/residents/stormwater-management-program/).

Budget Summary There is no separate budget associated with this activity.

6-Month Look Ahead Having completed the “Awareness Phase” of their public engagement strategy (two of six meetings in their Scope of Work), the next engagement meetings are centered on the “Exploration Phase”. Staff will continue to use E-Winnetka, the Winnetka Report, and Village website to communicate as the Alternative Evaluation progresses.

### **Sanitary Sewer Evaluation**

Activity Summary The Village has awarded contracts for sewer lining and manhole lining to address sanitary sewer deficiencies identified during the evaluation. 2015 construction is complete. Staff has identified lining projects to be completed in 2016 and will jointly contract for this work with other municipalities through the Municipal Partnering Initiative.

Budget Summary The Village has expended \$579,266.

6-Month Look Ahead The project team will:

1. Close the contracts
2. Contract for the 2016 project.

### **Ravine/Sheridan Road Improvements**

Activity Summary IDOT is planning pavement and drainage improvements for the area. The contract has been awarded and construction is expected to start in Spring, 2016. IDOT has identified two Village utilities – a pad-mount transformer and a lift station control panel – that need to be relocated to facilitate project construction. IDOT will reimburse the Village for its expenses to relocate these utilities.

Budget Summary This project is funded in its entirety by IDOT.

6-Month Look Ahead The project team will:

1. Complete utility relocation
2. Monitor IDOT activities
3. Update the Council as needed

## **NW Winnetka (Greenwood/Forest Glen)**

Activity Summary Construction on this project is complete, and staff is completing contract closeout activities.

Budget Summary The Metropolitan Water Reclamation District (MWRD) is funding \$2,000,000 of this project. The total net cost estimate for the project, including engineering, pond restoration, and MWRD reimbursement, is now \$4,532,616. Net Village expenditures to date are \$5,016,836. The Village has received \$1,500,000 in MWRD reimbursements to date, with \$500,000 pending.

6-Month Look Ahead The project team will:

1. Complete project closeout activities

## **Completed Projects**

### **Ash Street Pump Station**

Construction has been completed and the station is operational. The Village has expended \$262,826.

### **Willow Road Stormwater Tunnel and Area Drainage Improvements (STADI)**

After reviewing the most recent project cost estimate of \$81.3 million, and discussing possible options for going forward, the Council concurred that no further work should be undertaken on the STADI project at this time. Rather, the Village should focus on identifying and evaluating other non-STADI alternatives to provide significant stormwater flood relief to STADI project areas. The Village has expended \$926,376 to date including the 2012 feasibility study.

### **Stormwater Master Plan (SMP)**

The Council adopted the plan at its April 17, 2014 meeting. The Village expended \$100,932 on this project.

### **Spruce Outlet (Lloyd)**

The project is complete and operational and the Village expended \$296,299.

### **Spruce Outlet (Tower)**

The project is complete and operational. The Village expended \$1,269,716.

### **Winnetka Avenue Pump Station**

Construction of the Pump Station is complete and the station is operational and the Village expended \$1,071,706.

### **Stormwater Utility Implementation**

The utility was implemented effective July 1 and the project team is responding to resident inquiries as needed. MFSG's contract for staffing the customer support line

ended, and Public Works staff has taken the lead in phone and email communications. The Village has expended \$179,516.

A summary budget document showing planned and actual expenditures for all of the planned, ongoing, and completed projects is attached.

**Recommendation:**

1. Informational report.

**Attachments:**

1. Program Budget

**ATTACHMENT #1**  
**PROGRAM BUDGET**

Village of Winnetka  
Stormwater Management Program Budget

February, 2016

Project	Initial Estimated Project Costs (2011)	Estimated Program Costs August 2013	Current Estimated Project Costs	Council Authorized	Spent	Comments
<b>Stormwater Fund</b>						
<b>58.75.640.601</b>						
<b>Completed Projects</b>	<b>\$ 35,218,451</b>	<b>\$ 37,196,073</b>	<b>\$ 4,141,078</b>	<b>\$ 4,141,078</b>	<b>\$ 4,141,078</b>	
Winnetka Avenue Pump Station	\$ 750,000	\$ 1,002,300	\$ 1,071,706	\$ 1,071,706	\$ 1,071,706	Complete. Initial cost estimate \$750k from 2009 study.
Tower Road/Old Green Bay	\$ 1,394,244	\$ 1,162,853	\$ 1,269,716	\$ 1,269,716	\$ 1,269,716	Complete
Lloyd Park/Spruce Street Outlet	\$ 475,510	\$ 398,786	\$ 296,299	\$ 296,299	\$ 296,299	Complete
Stormwater Utility Study/Implementation	\$ 50,000	\$ 161,866	\$ 179,516	\$ 179,516	\$ 179,516	Complete - includes customer support services
Stormwater Master Plan	\$ 50,000	\$ 101,220	\$ 100,932	\$ 100,932	\$ 100,932	Complete
Willow Road STADI Project	\$ 32,498,697	\$ 34,369,048	\$ 926,376	\$ 926,376	\$ 926,376	Project suspended effective 9/1/2015.
Ash Street Pump Station	\$ -	\$ -	\$ 262,825	\$ 262,825	\$ 262,825	Complete
STADI Cost Evaluation/Value Engineering	\$ -	\$ -	\$ 33,708	\$ 33,708	\$ 33,708	Cost estimate complete. Value engineering not authorized.
<b>NW Winnetka Greenwood/Forest Glen</b>	<b>\$ 2,880,887</b>	<b>\$ 4,266,924</b>	<b>\$ 4,532,616</b>	<b>\$ 4,706,977</b>	<b>\$ 5,016,836</b>	<b>Added Forest Glen area, FPD pond restoration, and complete roadway reconstruction to project.</b>
Design Engineering			\$ 226,874	\$ 226,874	\$ 226,874	Complete
Sewer Construction			\$ 5,942,869	\$ 6,117,230	\$ 5,936,269	Payments to date. \$6,600 retention payment remaining to be invoiced.
Pond Engineering			\$ 19,686	\$ 19,686	\$ 19,686	Complete
Pond Construction			\$ 227,137	\$ 227,137	\$ 227,137	Complete
Construction Observation/Engineering			\$ 116,050	\$ 116,050	\$ 106,870	Payments to date
MWRD Phase II Stormwater Funding			\$ (2,000,000)	\$ (2,000,000)	\$ (1,500,000)	Reimbursement from MWRD. Final \$500,000 requested, pending receipt.
<b>Non-STADI Alternatives</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 256,050</b>	<b>\$ 256,050</b>	<b>\$ 107,453</b>	
Identification and Evaluation of Alternatives			\$ 256,050	\$ 256,050	\$ 107,453	Contract awarded October 6, 2015. Payments to date.
Permitting and Design			\$ -	\$ -	\$ -	
Construction			\$ -	\$ -	\$ -	
Construction Observation/Engineering			\$ -	\$ -	\$ -	
Project Management			\$ -	\$ -	\$ -	
<b>Boal Parkway Improvements</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 400,000</b>	<b>\$ -</b>	<b>\$ -</b>	
Design Engineering			\$ 50,000	\$ -	\$ -	Budgeted FY 2016. RFP Issued.
Construction			\$ 350,000	\$ -	\$ -	Budgeted FY 2017.
Construction Observation/Engineering			\$ -	\$ -	\$ -	
Project Management			\$ -	\$ -	\$ -	
<b>Total Stormwater Program Costs</b>	<b>\$ 38,099,338</b>	<b>\$ 41,462,997</b>	<b>\$ 9,329,744</b>	<b>\$ 9,104,105</b>	<b>\$ 9,265,367</b>	
<b>Sanitary Sewer Fund</b>						
<b>54.70.640.201</b>						
Sanitary Sewer Studies/Engineering	\$ 150,000	\$ 150,000	\$ 187,247	\$ 187,247	\$ 184,008	Complete. Includes initial system evaluation, smoke and dyed-water testing, and engineering
System I & I repairs	\$ 1,000,000	\$ 1,000,000	\$ 960,000	\$ 443,135	\$ 395,258	Council awarded manhole and sewer lining contracts in 2014, construction complete except for punch list
<b>Total Sanitary Sewer Costs</b>	<b>\$ 1,150,000</b>	<b>\$ 1,150,000</b>	<b>\$ 1,147,247</b>	<b>\$ 630,382</b>	<b>\$ 579,266</b>	