



Agenda Item Executive Summary

Title: Stormwater Monthly Summary Report

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

Agenda Date: 12/15/2015

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 – December 2015

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

Date: December 9, 2015

Active Projects

NW Winnetka (Greenwood/Forest Glen)

Activity Summary The construction contract was awarded to A Lamp, in the amount of \$6,117,230, on November 6, 2014. Construction on this project is complete. Construction has also been completed on the \$342,800 contract for restoration and erosion control on the east side of the Forest Preserve pond south of Tower Road. This work was required by the Forest Preserve as a condition of receiving approval to improve the stormwater discharge to their pond.

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 \$4,706,977. Gross Village expenditures to date are \$6,517,862 and the Village has received \$1,500,000 in MWRD reimbursements to date.

6-Month Look Ahead The project team will:

1. Complete project closeout activities

Non-STADI Alternative Evaluation

Activity Summary

On October 6, 2015, the Village contracted with Strand Associates for engineering services to re-visit the feasibility and cost estimates of the previously reviewed and dismissed separate, non-STADI options, which have not been updated since 2011. The scope also includes a re-evaluation 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 Associates has largely completed the process of evaluating and updating the previously developed hydraulic/hydrologic modeling for the study areas. Strand has determined that the previously developed modeling is generally accurate and correct, but

that the modeling will need to be updated to an additional level of detail to accommodate the XP-SWMM 2D platform.

Strand Associates and Village staff concluded initial stakeholder meetings during the week of November 16 with the Cook County Forest Preserve, the Winnetka Park District, the Winnetka School District, and New Trier High School District. The purpose of these meetings was to begin discussions with public agencies owning significant open-space parcels in and adjacent to the project study area, to begin to explore areas where the Village's stormwater management goals and needs and the goals and needs of other public agencies may intersect and overlap. Each of the Village's local sister agencies was receptive to a cooperative approach to addressing the Village's stormwater management goals, provided that as solutions are developed and explored, their goals and mission are incorporated. The Cook County Forest Preserve also expressed a willingness to consider a cooperative approach to addressing the Village's stormwater solutions, although their cooperation will be heavily contingent upon proposed solutions demonstrably advancing their mission. Further, there are statutory restrictions on the Forest Preserve's ability to transfer ownership of or beneficial interest in their land.

Budget Summary Strand Associates' contract fee for this work is \$256,050. The Village has expended \$25,522 to date.

6-Month Look Ahead The project team will:

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

Public Outreach

Activity Summary Staff has completed the migration of all information from the dedicated Stormwater Management Program website to the Village's website (<http://www.villageofwinnetka.org/residents/stormwater-management/>). Since the separate site was originally created as part of the Stormwater Master Plan, its structure and focus on that piece became limiting as our stormwater activities have expanded and changed. In addition, information related to Strand Associates' study will be located on the Village website (<http://www.villageofwinnetka.org/residents/stormwater-alternatives-evaluation/>). Therefore, the migration truly makes the Village site a single point for information and updates on all of the Village's stormwater management activities and projects. Staff continues to provide E-Winnetka and website updates on the multiple projects in the stormwater management program.

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

6-Month Look Ahead Strand Associates has budgeted for six public engagement meetings to occur throughout the project, to communicate progress, receive public comments and discuss proposed alternatives as they are developed. Their approach to engagement is centered around "awareness," "exploration," and "vision." In the first

series of meetings, anticipated to take place in late January, Strand will focus on communicating the results of model verification and their early observations. They will also be listening to the community to solicit innovative ideas and receive public input on experiences in these flood-prone areas. Staff will continue to use e-Winnetka, the Winnetka Report, and the website to communicate as the alternative study 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. Construction is complete.

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

6-Month Look Ahead The project team will:

1. Close the contracts

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.

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

6-Month Look Ahead The project team will:

1. Monitor IDOT activities
2. Update the Council as needed

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

Project	Initial Estimated Project Costs (2011)	Estimated Program Costs August 2013	Current Estimated Project Costs	Council Authorized	Spent	Comments
Stormwater Fund						
58.75.640.601						
Completed Projects	\$ 35,218,451	\$ 37,196,073	\$ 4,141,078	\$ 4,141,078	\$ 4,141,078	
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.
NW Winnetka Greenwood/Forest Glen	\$ 2,880,887	\$ 4,266,924	\$ 4,706,977	\$ 4,706,977	\$ 5,017,862	Added Forest Glen area, FPD pond restoration, and complete roadway reconstruction to project.
Design Engineering			\$ 226,874	\$ 226,874	\$ 226,874	Complete
Sewer Construction			\$ 6,117,230	\$ 6,117,230	\$ 5,942,452	Payments to date
Pond Engineering			\$ 19,686	\$ 19,686	\$ 19,686	Additional design required for FPD pond work. Complete
Pond Construction			\$ 227,137	\$ 227,137	\$ 227,137	Complete
Construction Observation/Engineering			\$ 116,050	\$ 116,050	\$ 101,713	Payments to date
MWRD Phase II Stormwater Funding			\$ (2,000,000)	\$ (2,000,000)	\$ (1,500,000)	Reimbursement from MWRD. Final \$500,000 pending.
Non-STADI Alternatives	\$ -	\$ -	\$ 256,050	\$ 256,050	\$ 25,522	
Identification and Evaluation of Alternatives			\$ 256,050	\$ 256,050	\$ 25,522	Contract awarded October 6, 2015. Payments to date.
Permitting and Design			\$ -	\$ -	\$ -	
Construction			\$ -	\$ -	\$ -	
Construction Observation/Engineering			\$ -	\$ -	\$ -	
Project Management			\$ -	\$ -	\$ -	
Total Stormwater Program Costs	\$ 38,099,338	\$ 41,462,997	\$ 9,104,105	\$ 9,104,105	\$ 9,184,462	
Sanitary Sewer Fund						
54.70.640.201						
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
Total Sanitary Sewer Costs	\$ 1,150,000	\$ 1,150,000	\$ 1,147,247	\$ 630,382	\$ 579,266	