

VILLAGE OF DOWNERS GROVE
REPORT FOR THE VILLAGE COUNCIL WORKSHOP
JANUARY 22, 2008 AGENDA

SUBJECT:	TYPE:	SUBMITTED BY:
Approval of Scope of Stormwater Project: North St. Joseph Creek Subwatershed C Improvements	Resolution Ordinance ✓ Motion Discussion Only	Robin A. Weaver Interim Director of Public Works

SYNOPSIS

A motion is requested to approve the scope of the fifteenth High priority stormwater project that will be designed in FY08. By separate item on this workshop agenda, a contract for this design work is being awarded.

STRATEGIC PLAN ALIGNMENT

The Village's Five Year Plan and Goals for 2007-2012 identifies *Top Quality Village Infrastructure and Facilities*. An objective is *Improved Stormwater and Drainage System*.

FISCAL IMPACT

The five-year CIP has \$37,895,000 earmarked for stormwater projects. This project will adhere to the FY08 Stormwater Improvement Fund budget, which provides \$6.5 million for capital improvements.

RECOMMENDATION

Approval under the Attorney's Report following a motion to waive the traditional one-week waiting period and approve on January 22, 2008.

BACKGROUND

The Village Council commissioned four engineering firms to conduct a comprehensive study of the Village's stormwater issues in the major watersheds. The result is the Watershed Infrastructure Improvement Plan. The Stormwater and Floodplain Oversight Committee held public meetings on December 6 and 13, 2007, and on January 10, 2008, to seek public input and to recommend approval of the scope of the 15 stormwater projects by the Village Council.

The North St. Joseph Creek Subwatershed C Improvements project will take place over a three year period. The project includes replacement of storm sewer, installation of high efficiency inlet grates, new storm sewer and the construction of a new retention/detention basin in Bending Oaks Park. Village staff has worked closely with Park District staff to jointly develop plans that serve stormwater needs and provide recreational use of the park.

Subwatershed C is located in the northern portion of the North St. Joseph Creek Watershed and is generally west of Middaugh Avenue, south of Grant Street, east of Cornell Avenue and north of St. Joseph Creek. The terrain gently slopes north to south toward the creek at a slope of approximately two percent. Roadway, house and yard flooding is associated with two depressional areas along Warren Avenue between Cornell Avenue and Seeley Avenue. There is flooding along Gilbert Avenue associated with the St. Joseph Creek floodplain. The proposed stormwater project consists of a combination of replacing existing storm sewers with larger pipes, constructing additional storm sewer lines and regrading areas to gain stormwater storage. Additionally, a stormwater storage basin is proposed just west of Cornell Avenue and north of St. Joseph Creek.

The intended outcome of this project is reduced roadway, structure and yard flooding and a system with a 10-year protection level for conveyance and detention for the 100-year level.

This project will be spread across a three-year period. In 2008, the project will be designed and new detention/retention will be constructed on Sterling Road North Park. Construction will last eight to ten months.

Work in 2009 will consist of the installation of a new storm sewer along Cornell Avenue moving north underneath the railroad tracks to Warren Avenue, then east on Warren Avenue to Lee Avenue to connect to the new detention. New storm sewer will also be connected to depressional areas north of Gilbert Avenue and south of the railroad tracks to existing pipe at Gilbert Park. Additional parallel pipe will be installed from Wallbank Avenue and Warren Avenue to a 72-inch pipe that runs south of Warren Avenue underneath the tracks. Construction will last eight to ten months.

In the last year of construction, 2010, work will consist of installation of new storm sewers, modifications of depressional areas and upsizing of existing pipes north of Prairie Avenue within the subwatershed. Construction will last eight to ten months.

General improvements and maintenance will follow in the out years with an overall future goal of adding collector pipes within 200 feet of every lot throughout the subwatershed.

ATTACHMENTS

CIP sheet

Draft minutes of the January 10, 2008 meeting of the Stormwater and Floodplain Oversight Committee

2008-2012 CAPITAL PROJECT SHEET

Proj. #: SW-033

Project Description: Watershed Improvements - St. Joseph N. Br., Sub C

Project Lead: Michael D. Millette Dept.: Public Works

Fund: 243 Program: 343 Project Type: New Project/Expansion Changed
 Replacement Maintenance

Priority Setting Factors:	H/S/W	Maint.	Expan.	New	Low	Medium	High	OVERALL
Rating:	X						X	1

BREAKDOWN OF PROJECT COST AND FUNDING SOURCES

Cost Summary	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	Future Yrs	TOTAL
Professional Services	100,000		200,000			526,000	826,000
Land Acquisition			100,000				100,000
Infrastructure Improvements	1,400,000	1,800,000	3,100,000			6,500,000	12,800,000
Building Improvements							-
Machinery and Equipment							-
Other/Miscellaneous							-
TOTAL COST	1,500,000	1,800,000	3,400,000	-	-	7,026,000	13,726,000

Funding Source(s)	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	Future Yrs	TOTAL
243-Stormwater Improvement Fund ▼	1,500,000	1,800,000	3,400,000			7,026,000	13,726,000
▼							-
▼							-
▼							-
TOTAL FUNDING SOURCES	1,500,000	1,800,000	3,400,000	-	-	7,026,000	13,726,000

1. Briefly Describe and provide justification for this Capital Project Request.

Improvements included in the Watershed Infrastructure Improvement Plan. This project involves constructing a new detention basin, re-grading depressional storage areas, new storm sewer and catch basins.

2. Describe the project status and completed work.

New project in FY2008.

3. Describe any anticipated grants related to the project.

None

4. What impact will the project have on annual operating expenses? Please quantify and describe.

	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	Future Yrs	TOTAL
Projected Operating Expenses	-	-	-	-	-	-	-

Map and/or pictures of Project/Project Area:

**VILLAGE OF DOWNERS GROVE
Stormwater and Flood Plain Oversight Committee Meeting
January 10 2008, 7:00 p.m.**

**Downers Grove Public Works Facility
5101 Walnut Avenue, Downers Grove, Illinois**

Call to Order

Chairman Eckmann called the meeting to order at 7:00 p.m. A roll call followed. A quorum was established.

Members Present: Mr. Eckmann, Mr. Crilly, Mr. Gorman, Mr. Scacco

Members Absent: Ms. Matthies, Mr. Bollenberg

Staff Present: Robin Weaver, Interim Public Works Director, Mike Millette, Assistant Director of Public Works – Engineering, Jim Tock, Staff Engineer, and Lori Godlewski, Recording Secretary

Others Present: Jacqueline Neuendorf of 4628 Oakwood, Gerry (no last name provided) James Sangala of 1947 Curtiss, Mrs. Reidy of 1943 Curtiss, Mark Thoman of 1109 61st Street and Bernard Bak of 1930 Bending Oaks Ct..

Approval of December 13, 2007 Minutes

Minutes from the December 13, 2007 meeting were accepted with corrections as follows – last page should read, made the motion and a motion was made seconded and passed to adjourn the meeting at 8:55 p.m..

Mr. Gorman made a motion to accept the minutes with corrections. Mr. Crilly seconded the motion. The motion carried by voice vote.

Public Comments

Residents wanted to know why some of them were not notified earlier than with a 2 day notice regarding this meeting. Mr. Eckmann explained what had taken place and apologized on the behalf of the staff.

New Business

A. Review a recommended scope for the proposed Sterling North Park stormwater project.

Mr. Eckmann asked the residents to listen to the presentation and questions would be taken afterwards.

Mr. Millette explained about the concept regarding the Watershed Plan, he defined a 100 year storm event and presented to the committee and residents a power point presentation. Mr. Millette stated

that back in the 1960's the main concern was to get the water away, if it was a problem; get it out of the way. In the 1970's the concern was how to store it, in 1986/87 the concern was don't hurt the down stream, and now in the 21st century the concern is to manage and improve the water quality. The causes of the stormwater problem are inadequate stormwater storage and insufficient maintenance.

Mr. Millette explained that the Village is working with stormwater engineering consultants to identify specific definite causes and recommended solutions. He stated that discussion and efforts are centered on "high" priority projects; which includes new storm sewers, upgrade and replacement of storm sewers, new detention areas, enhanced existing detention areas, enhanced natural storage areas, stream improvement, new and improved overland flow routes, street improvements regarding drainage (the way the street is pitched) and curbs. He also explained additional consideration will be: approach, funding, physical constraints, construction, combined projects, and partnerships (e.g. Park District).

Mr. Millette explained the area of the planned improvements and showed the location on the map. He included historical examples of what was going on in the 1960's and 1970's. He informed the audience that the Village is looking at detention basins and Low Poor Drainage Areas. Mr. Millette discussed the options to help relieve the problem: detention basin construction, new storm sewers, high efficiency inlet grates, storm sewer replacement and re-grading of existing depressional areas.

Mr. Sangala asked where is the water going? Will he still flood? Mr. Millette explained that there may not be a change. If you flood now, you will probably flood again. Mr. Millette stated that the goal here is to have the detention ponds dry within 72 hours. He explained it will be a balancing act. Mr. Millette did say that this will help protect the Village from flooding. Mr. Sangala said he was upset that the project would not remove the flood plain from this property.

Mr. Sangala asked about water flow and also will this area become a "party land" for underage drinkers. Mrs. Weaver stated that this land is owned by the Park District. Village and Park District staff have no increased security concerns.

In response to Mr. Sangala's statement that government just shoves things down residents throats, Mrs. Weaver stated that to date three stormwater project scopes have changed based on input from residents at these meetings.

Mr. Bak asked about the contamination of the water, especially TCE. It was explained by Mr. Millette and Ch. Eckmann that the TCE plume is much further underground then the stormwater system or any Village plans. Mr. Millette stated that the samples taken (NPDES) have not shown any contaminates. Mr. Millette stated we will be hiring 2 additional employees that will be assigned to stormwater maintenance activities including monitoring the creeks. They will be taking samples of the water (quality of the water), walk the creek area look for vegetation growing (make sure that the plants are growing), and we will be creating a stream bank vegetation plan with installation.

Mr. Eckmann spoke about the maintenance program and that a list was made ie: manholes, sewers, all to be looked at. Mr. Bak stated that it was about time that the Village look into these items. Mrs. Weaver stated that we also now have a new Vactor truck, and that the Village has received new software for record keeping. Mr. Sangala stated that he has noticed that the creek is cleaner now and has seen tad poles. Mr. Millette stated that the Village has increased street sweeping and catch basin

cleaning. He also explained about what bounce is and the difference between detention and retention. Mrs. Weaver distributed a preliminary concept drawing from the Park District she noted that there are changes already as grasses will not be mowed to the water's edge around the entire pond that will stabilize the area and help to avoid geese problems. Mr. Sangala asked if the area with stagnant water will have an odor. Staff and Chairman Eckmann said no odor problem likely. Mrs. Weaver also stated that the Park District staff wants a 10 foot deep area for fish. A fishing pier may replace the depicted canoe launch.

Mr. Sangala asked about a problem he was having with a neighbor who has a bridge on her property. It fills up with dirt and debris and the water then flows to his property and floods his area. Mr. Millette stated that he would look into this matter.

Mrs. Neuendorf asked about the impact of the project on her property (4628 Oakwood). Mr. Millette explained to her that a pipe will be installed and showed on the map where it will be placed. Mrs. Weaver said that with this pipe being installed, she will see a difference. Mrs. Neuendorf stated that she would like to have a shed put on her property but she will need to get a topographical survey and it costs a lot of money to get this done. Mr. Millette stated that requirement was to project adjacent properties. Mr. Millette stated that the ordinance prohibits stormwater discharge within 5 feet of the lot line.

Mrs. Neuendorf then stated that she appreciated that the Village recognizes that there is a problem and is willing to fix the problem. Mr. Millette stated that other residents have already asked if they can work with the Village on the "cost share program".

Mr. Sangala asked if the county may possibility do a buy out program. Mr. Millette stated that the county does have a program like this but funding is limited. Mr. Eckmann stated that the county is having some financial problems right now.

Mr. Thoman asked 2 questions, 1st one – will there be a control weir by Belmont Ave and 2nd regarding the pipe at Warren. Mr. Millette stated re: the 1st question, there will be a control weir only at Belmont. Mr. Millette answered the 2nd question regarding the pipe to Warren - can not handle the water and why it was not able to handle the water flow.

Mr. Scacco asked was it pipe storage, and Mr. Millette stated yes. Mr. Eckmann stated that we can't allow the town to flood. Mr. Millette stated that water will be discharged into the river. Mrs. Weaver stated that improved maintenance will help as well.

Mr. Eckmann asked if there were any more questions, and Mr. Gorman asked if there would be an aeration fountain. Mr. Millette stated that we don't know yet as we are at a preliminary stage. Mr. Gorman then explained to residents that a safety shelf is required one foot deep and extending 10 feet into the pond from the pond edges.

Mr. Scacco asked about any location for online storage, is there any consideration? Mr. Millette showed on the map where he was talking about.

Mr. Eckmann commented on the detention pond, mosquitos and possible West Nile virus. He would hope that this would be considered as a detention pond rather than a retention pond or else the Park District should be responsible for mosquito management.

Mr. Eckmann asked the Stormwater Flood Plain Oversight Committee to recommend to the Village Council to approve the North St. Joseph Creek Subwatershed C detention basin Cornell and Warren Avenue storm sewer project be constructed.

The motion was made to approve, Mr. Gorman 2nd the motion and the motion carried by voice vote.

Old Business

A. Discussion of revising meeting start time to 6:30 pm.

The members of the committee stated that it would be hard for them to get to the meetings if they were at 6:30 p.m. Meetings will continue to have the starting time of 7:00 p.m.

Mr. Eckmann asked if there were any updates regarding county stormwater ordinance and if the mayor has received a response on the letter that was sent. Mr. Millette stated there was no response at this time, only an acknowledgement of receipt of the letter. The next DuPage County Stormwater Committee will be meeting January 15, 2008. Mr. Eckmann then stated that he keeps hearing about the mansions that are being built and where flooding has occurred since the building. Mr. Eckmann stated that this committee should consider the topic of drainage to street requirements at a future meeting.

A motion to adjourn the meeting by Mr. Gorman at 9:35 p.m., seconded by Mr. Crilly.

Respectfully submitted,

/s/ Lori Godlewski
Lori Godlewski, Recording Secretary

