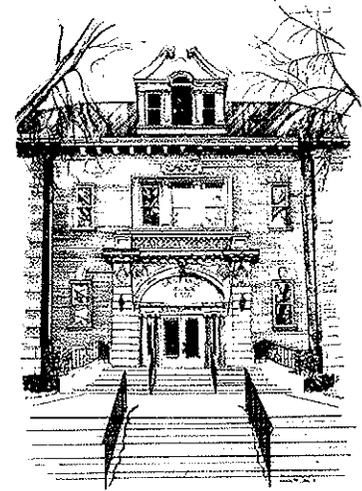


Village of La Grange

VILLAGE OF LA GRANGE
SPECIAL MEETING OF THE
VILLAGE BOARD OF TRUSTEES

Village Hall Auditorium
53 South La Grange Road
La Grange, IL 60525



Monday, January 28, 2013
(immediately following the regular Village Board meeting)

AGENDA

1. CALL TO ORDER AND ROLL CALL
2. CAPITAL PROJECTS WORKSHOP
 - A. CAPITAL PROJECTS FUND – *Ryan Gillingham, Director of Public Works*
 - Status Report FY 2012-13
 - Staff Recommendations FY 2013-14
 - B. WATER FUND – *Ryan Gillingham, Director of Public Works*
 - Status Report FY 2012-13
 - Staff Recommendations FY 2013-14
 - C. SEWER FUND – *Ryan Gillingham, Director of Public Works*
 - Status Report FY 2012-13
 - Staff Recommendations FY 2013-14
3. ADJOURNMENT

Individuals with disabilities and who require certain accommodations to participate at this meeting are requested to contact the ADA Coordinator at (708) 579-2315 to allow the Village to make reasonable accommodations.

CAPITAL PROJECTS FUND

VILLAGE OF LA GRANGE
 CAPITAL PROJECTS FUND
 FUND BALANCE SUMMARY THROUGH APRIL 30, 2018

Fund Balance, April 30, 2010			963,776
Revenues	2010-11	1,574,130	
Expenses	2010-11	<u>(2,004,830)</u>	<u>(430,700)</u>
Fund Balance, April 30, 2011			533,076
Revenues	2011-12	2,135,049	
Expenses	2011-12	<u>(1,782,107)</u>	<u>352,942</u>
Fund Balance, April 30, 2012			886,018
Revenues	2012-13	821,030	
Expenses	2012-13	<u>(961,713)</u>	<u>(140,683)</u>
Fund Balance, April 30, 2013			745,335
Revenues	2013-14	4,425,280	
Expenses	2013-14	<u>(5,015,558)</u>	<u>(590,278)</u>
Fund Balance, April 30, 2014			155,057
Revenues	2014-15	856,000	
Expenses	2014-15	<u>(799,495)</u>	<u>56,505</u>
Fund Balance, April 30, 2015			211,562
Revenues	2015-16	1,662,012	
Expenses	2015-16	<u>(1,734,045)</u>	<u>(72,033)</u>
Fund Balance, April 30, 2016			139,529
Revenues	2016-17	725,500	
Expenses	2016-17	<u>(785,285)</u>	<u>(59,785)</u>
Fund Balance, April 30, 2017			79,744
Revenues	2017-18	705,500	
Expenses	2017-18	<u>(782,505)</u>	<u>(77,005)</u>
Fund Balance, April 30, 2018			<u><u>2,739</u></u>

CAPITAL PROJECTS FUND

ACCT. NO.	ACCOUNT DESCRIPTION	2010-11 ACTUAL	2011-12 ACTUAL	2012-13 BUDGET	2012-13 EST. ACT	2013-14 BUDGET	2014-15 BUDGET	2015-16 BUDGET	2016-17 BUDGET	2017-18 BUDGET
4000 REVENUES										
<u>INTERGOVERNMENTAL REVENUES</u>										
5300	GRANTS-STP	18,882	141,695	57,894	107,274	45,020	7,000	26,512	-	-
5300	GRANTS - STATE (Neighborhood H)	662,105	165,884	-	-	-	-	-	-	-
5300	GRANTS - OTHER (Village Hall HVAC)	184,609	257,408	-	-	-	-	-	-	-
5300	GRANTS - OTHER (Police/Fire-Lighting Grant)	-	13,558	-	-	-	-	-	-	-
5300	GRANTS - OTHER (DCEO-La Grange Road Ped	-	-	120,000	-	120,000	-	-	-	-
5300	GRANTS - OTHER (/DCEO-47th St Ped Crossin	-	-	240,000	-	240,000	-	-	-	-
5300	GRANTS - OTHER (DCEO-Ogden)	-	-	31,000	-	31,000	-	-	-	-
5300	GRANTS - FEDERAL (Stone Ave Station)	-	-	700,000	-	700,000	-	-	-	-
5302	GRANTS - OTHER (Stone Ave Station)	-	-	385,000	50,000	335,000	-	-	-	-
5302	GRANTS - OTHER (Willow Springs Road)	-	-	90,000	22,500	-	73,500	-	-	-
5314	GRANTS - OTHER (EAB/Reimb Gordon & Denning park)	-	16,149	-	-	-	-	-	-	-
	SUBTOTAL	865,596	594,694	1,623,894	179,774	1,471,020	80,500	26,512	-	-
<u>INTEREST INCOME</u>										
5500	INVESTMENT INTEREST	780	175	500	1,000	500	500	500	500	500
	SUBTOTAL	780	175	500	1,000	500	500	500	500	500
<u>FINANCING REVENUES</u>										
5700	AREA 5 SIDEWALKS-RESIDENTS	419	1,190	500	500	500	-	-	-	-
	SUBTOTAL	419	1,190	500	500	500	-	-	-	-
<u>MISCELLANEOUS REVENUES</u>										
5840	50/50 SIDEWALK PROGRAM	7,335	10,905	5,000	4,390	5,000	5,000	5,000	5,000	5,000
5864	TREE PLANTING PROGRAM	-	6,324	-	7,366	-	-	-	-	-
5898	EMERALD ASH BORER (EAB) PROGRAM	-	-	-	-	-	-	-	-	-
5899	MISCELLANEOUS REVENUE	-	21,139	-	-	-	-	-	-	-
	SUBTOTAL	7,335	38,368	5,000	11,756	5,000	5,000	5,000	5,000	5,000
<u>TRANSFERS IN</u>										
5919	FROM CORP FUND	700,000	700,000	600,000	600,000	700,000	700,000	700,000	700,000	700,000
5921	FROM MOTOR FUEL TAX FUND	-	800,622	508,000	28,000	2,248,260	70,000	930,000	20,000	-
	SUBTOTAL	700,000	1,500,622	1,108,000	628,000	2,948,260	770,000	1,630,000	720,000	700,000
	TOTAL REVENUES	1,574,130	2,135,049	2,737,894	821,030	4,425,280	856,000	1,662,012	725,500	705,500

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CAPITAL PROJECTS FUND

ACCT. NO.	ACCOUNT DESCRIPTION	2010-11 ACTUAL	2011-12 ACTUAL	2012-13 BUDGET	2012-13 EST. ACT	2013-14 BUDGET	2014-15 BUDGET	2015-16 BUDGET	2016-17 BUDGET	2017-18 BUDGET
4000	EXPENDITURES	CAPITAL OUTLAYS								
6601	WILLOW SPRNGS RD RESRFCNG	-	-	-	-	28,659	-	-	-	-
6602	WILLOW SPRNGS SAFETY IMPRVMTS	18,493	-	2,100	30,000	26,000	89,200	-	-	-
6603	SIGN ENHANCEMENT PROJECT	-	-	-	-	-	-	-	-	-
6604	STONE AVENUE STATION RENOVATION	8,920	6,288	1,035,000	150,000	885,000	-	-	-	-
6605	PED SIGNAL IMPROVMENTS (Bollards)	4,989	12,822	100,000	-	-	-	-	-	-
6607	L.E.D. SIGNAL UPGRADE	-	-	-	-	-	-	-	-	-
6608	ABOVE GROUND FUEL TANK(S) @ DPW	23,689	-	-	-	-	-	-	-	-
6609	CBD STREET RESURFACING	-	-	-	-	-	-	-	-	-
6611	SOUTH 47TH ST DRAINAGE AREA STUDY	-	25,147	-	-	-	-	-	-	-
6612	FIRE DEPT APPARATUS FLOOR	4,000	27,572	-	16,636	-	-	-	-	-
6615	BRLGTN / KNSGNTN TO BRAINARD	32,639	986	-	-	-	-	-	-	-
6630	OPTICOM LIGHTS	-	-	-	-	-	-	-	-	-
6643	OGDEN AVE RELIEF SEWER PROJ	14,873	-	-	-	-	-	-	-	-
6644	NORTHEAST. PLANNING AREA	-	27,992	-	-	-	-	-	-	-
6645	LA GRANGE RD CORRIDOR IMPRV	-	5,536	120,000	-	120,000	-	-	-	-
6646	POPLAR PLACE SEWER IMPROVMENTS	1,000	34,871	250,000	152,000	-	-	-	-	-
6647	MASON WOODS AREA SEWER PROJECT	-	58,200	-	-	-	-	-	-	-
6672	VILLAGE CLOCK	-	-	-	-	-	-	-	-	-
6678	HILLGROVE / GLBRT TO BRAINARD	-	-	-	-	-	-	-	-	-
6679	COSSITT/BRAINARD TO EAST AVE	-	-	-	-	-	-	-	-	-
6680	STREET LIGHTING	-	-	-	-	-	-	-	-	-
6682	SIDEWALK/CURB/GUTTER	14,819	23,985	15,000	14,577	95,000	15,000	15,000	15,000	15,000
6684	TREE PLANTING	35,779	37,619	45,000	32,000	39,000	41,000	43,000	45,000	47,000
6685	EMERALD ASH BORER	4,519	23,944	60,000	67,278	155,000	202,000	212,000	223,000	234,000
6686	SEWER TELEVISION/CLEANING	35,179	19,518	25,000	25,000	25,000	25,000	25,000	25,000	25,000
6687	MANHOLE REPLACEMENT	-	-	-	-	-	-	-	-	-
6688	CBD PAVER PROJECT	-	-	-	-	-	-	-	-	-
6689	BNSF TRESTLE - PAINTING	-	-	-	-	-	-	-	-	-
6690	VILLAGE HALL HVAC IMPROVEMENTS	229,847	261,437	(addtl 300k)	6,201	-	-	-	-	-
6691	BLUFF/47 TO BURLNGTN / M.A.R.S.	340,771	685,747	480,000	-	490,854	-	-	-	-
6692	MAPLE AVE RELIEF SEWER PROJ	15,373	134,969	-	64,702	2,000,000	-	-	-	-
6693	MAPLE AVE UNDERPASS	-	-	-	-	-	-	-	-	-
6694	47TH STREET CORRIDOR IMPRVMENTS	25,133	13,303	240,000	527	240,000	-	-	-	-
6695	OGDEN AVE CORRIDOR IMPRV	2,948	-	31,000	-	31,000	-	-	-	-
6697	NGHBRHD "H" STREET PROJECT	827,989	-	-	-	-	-	-	-	-
6698	NGHBRHD STREET PROJECTS	-	28,500	28,000	28,000	378,000	70,000	930,000	20,000	-
6699	IDOT EXTRAORD MNT	-	-	-	-	-	-	-	-	-
66XX	VILLAGE HALL ROOF REPAIR/REPLCMNT	-	-	-	-	80,000	-	-	-	-
66XX	PLAZA FOUNTAIN	-	-	-	-	35,000	-	-	-	-
66XX	COSSITT AVE REHAB PROJECT	-	-	-	-	30,500	-	151,500	-	-
		1,640,960	1,428,436	2,431,100	586,921	4,659,013	442,200	1,376,500	328,000	321,000
		MISCELLANEOUS EXPENDITURES								
6862	MISC. ENGINEERING	27,954	15,982	40,000	40,000	20,000	20,000	20,000	20,000	20,000
6863	CRACKFILL PROGRAM	24,800	19,165	20,000	19,487	20,000	20,000	20,000	20,000	20,000
6864	THERMOPLASTIC ST MARKING	14,541	14,759	15,000	15,000	15,000	15,000	15,000	15,000	15,000
6886	SEWER LINING PROGRAM	-	-	-	-	-	-	-	100,000	100,000
	SUBTOTAL	67,295	49,906	75,000	74,487	55,000	55,000	55,000	155,000	155,000
		INTERFUND TRANSFERS								
6990	TRANSFER TO DEBT SERVICE	296,575	303,765	300,305	300,305	301,545	302,295	302,545	302,285	306,505
	SUBTOTAL	296,575	303,765	300,305	300,305	301,545	302,295	302,545	302,285	306,505
	TOTAL FOR DEPARTMENT	2,004,830	1,782,107	2,806,405	961,713	5,015,558	799,495	1,734,045	785,285	782,505

2-A.2

VILLAGE OF LA GRANGE
Department of Public Works

EXECUTIVE COMMITTEE REPORT

TO: Village President, Village Board of Trustees
Village Clerk and Village Attorney

FROM: Robert Pilipiszyn, Village Manager
Ryan Gillingham, Director of Public Works
Lou Cipparrone, Finance Director

DATE: January 28, 2013

RE: **CAPITAL PROJECTS FUND -- STATUS REPORT FY2012-13**

WILLOW SPRINGS ROAD RESURFACING

In cooperation with Western Springs, grant funds were secured through the Central Council of Mayors for the resurfacing of Willow Springs Road from 47th Street south to the Village's corporate limits. Streets previously reconstructed under the Surface Transportation Act are eligible for federal funding through this program. The project was originally to be funded as a Federal Local Agency Pavement Preservation (LAPP) project, however in March of 2009, La Grange and Western Springs jointly secured federal stimulus funding (American Recovery and Reinvestment Act of 2009) to pay for the construction costs associated with the project.

Western Springs was the lead agency for this project and coordinated the engineering and construction work. Federal stimulus funding did not cover the cost of design engineering and construction engineering work relative to the project. Therefore, an intergovernmental agreement with Western Springs was executed to share in the engineering costs for the project.

The Village's share of the engineering costs was \$23,091 in FY2009-10 for design engineering and \$28,659 in FY2010-11 for construction engineering. The Village of Western Springs has yet to invoice La Grange for the construction engineering. Staff has contacted Western Springs on multiple occasions to remind them of the outstanding obligation. We have rebudgeted this expense over the last several fiscal years, and recommend rebudgeting this expense in FY2013-14.

WILLOW SPRINGS ROAD SAFETY IMPROVEMENTS

The Willow Springs Road Safety Improvements is a planning line-item to identify and fund traffic calming and pedestrian safety improvements as priorities and funding sources are identified. Potential safety improvements include the installation of overhead street lights, pedestrian access and crossing improvements, and a traffic control device.

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A corridor study to assess traffic calming and pedestrian safety within the Willow Springs Road Corridor From 47th Street on the north to just south of the Adventist La Grange Memorial Hospital south access driveway was completed in 2011. This study was a cooperative effort between the Village of La Grange, the Village of Western Springs and Lyons Township High School (LTHS). The cost for this study was approximately \$18,500 and was shared equally between project participants. The Park District of La Grange and La Grange Memorial Hospital also participated in the discussions.

The intergovernmental team agreed to pursue implementation of the recommendations identified in the corridor study most notably a traffic signal at the intersection of Willow Springs Road and the south entrance of Lyons Township High School (LTHS) in Western Springs and the south entrance to Denning Park in La Grange. Based on the scope of work and cost estimates in the corridor study, La Grange and Western Springs applied for and received a grant through the Federal Surface Transportation Program (STP) allocated by the Central Council of Mayors for the engineering and construction of the project in the total amount of \$231,000. Additionally, the Village was able to repurpose a State grant in the amount of \$90,000 towards this project.

An intergovernmental agreement between the participants defining cost sharing and maintenance responsibilities was also completed. The agreement establishes La Grange as the lead participant with financial participation by La Grange, Western Springs and LTHS. As the lead participant, the Village has entered into a contract with Baxter & Woodman and KLOA to complete the plans and specifications for both the civil engineering and traffic signal work in the amount of \$40,000. As part of the design plan, KLOA will be considering supplemental safety measures within the corridor to compliment the proposed traffic control device. Additionally, agreements with IDOT for the use of federal funds for engineering services have been submitted to IDOT for approval.

Staff has started the process of working with LTHS and PDLG on the drafting the permanent easements for Board consideration. Additionally, staff will draft an agreement between La Grange and Western Springs for traffic signal maintenance for Board consideration. Finally, staff will develop engineering and federal participation agreements for construction for Board consideration once the project plans have been approved by IDOT. We anticipate that the construction agreements will be presented to the Board for consideration in the Fall / Winter of 2013.

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Funding for this project will be split between Federal, State and Local funding sources as indicated in the below budget table:

Willow Springs Road Traffic Signal Project	BUDGET	FY2012-13	FY2013-14	FY2014-15
		Village Participation		
Expenses				
Engineering				
Phase 2 - Development of Plans and Specifications	40,000	30,000	10,000	
Phase 3 – Construction Engineering	26,000		16,000	10,000
Subtotal	66,000			
Construction	264,000			79,200
Total	330,000	30,000	26,000	89,200
Funding Sources				
SURFACE TRANSPORTATION PROGRAM FUNDING				
Federal STP Funding (STP) - FY13 – Engineering	28,000	21,000	7,000	
Federal STP Funding (STP) – FY14 – Construction Engineering	18,200		11,200	7,000
Federal STP Funding (STP) - FY14 - Construction	184,800			
Subtotal	231,000	21,000	18,200	7,000
OTHER NON-VILLAGE FUNDING SOURCES				
State of Illinois - Legislative Appropriation – DCEO	90,000	22,500		67,500
Village of Western Springs	3,000			3,000
Lyons Township High School District 204	3,000			3,000
Subtotal	96,000	22,500		73,500
VILLAGE FY2014-15 CAPITAL PROJECTS BUDGET	3,000			3,000
Total	330,000			

Please note that IDOT requires the Village to pay for the engineering services in the total amount of \$66,000 and then request reimbursement. Construction expenses are paid directly by IDOT to the contractor with Village reimbursement.

Based on the current IDOT letting schedule, we anticipate the following schedule for the project:

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Phase 2 – Development of Plans and Specifications	
Notice To Proceed	January, 2013
Complete Survey	February, 2013
Complete Intersection Design Study	March, 2013
IDOT IDS Approval	May, 2013
Final IDOT plan submittal	July, 2013
IDOT Design Approval	September, 2013
Phase 3 – Construction	
IDOT Bid Opening	November, 2013
Construction Start	March, 2014
Construction Finish	June, 2014

Due to limited funding, other potential improvements such as street lighting and improvements to the north-south sidewalk on the east side of the roadway, which have an estimated cost of \$637,000, are not being recommended at this time.

SIGN ENHANCEMENT PROJECT

Because of the many educational, transportation and commercial destinations/amenities which exist in La Grange, there is an abundance of regulatory signage throughout the Village (i.e. – traffic control, parking, etc.). This signage is intended to preserve the integrity of our residential neighborhoods. However, many of these signs have become faded, worn and weathered over time. Posts which are bent or leaning require attention.

The Village Board previously concurred with an initiative to improve the streetscape in residential neighborhoods by replacing these signs and on sign posts which would blend in better with the environment as compared to the stark, metal posts currently in use. However, this initiative which had an estimated cost of \$100,000 was eliminated as part of the Village’s cost containment plan to stabilize Village finances. We also note that the federal requirements in the MUTCD that required replacement of signs on a specific schedule to improve visibility was also eliminated at about the same time.

Funds will continue to be budgeted in the Public Works budget for replacement of signs as part of the normal routine replacement program.

STONE AVENUE TRAIN STATION RENOVATION

The Stone Avenue train station is a local landmark. However, the station is in distress, suffering from the lack of maintenance over the years. The Village is working with Metra, West Suburban Mass Transit District, BNSF and other state and federal agencies towards securing additional funding and approval for interior and exterior renovations to the Stone Avenue train station in

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order to restore this magnificent structure and assume daily maintenance responsibilities in the future.

Through those efforts, the Village has secured \$385,000 in grant funding from the West Suburban Mass Transit District and \$700,000 in federal funding by Congressman Lipinski for interior and exterior renovations to the Stone Avenue train station, for a combined total of \$1,085,000 in funding from external sources.

An initial planning discussion (Phase I) regarding the scope of work for the project was held with the Village Board in February 2009 and a second discussion was held in June 2010. The Village Board generally looked with favor on the renovation and improvements, however, prioritizing the scope of services recommended by the Village's architect that could be accomplished within the parameters of the available grant funding for the time being.

At the conclusion of the initial planning process, the Village worked with Metra to finalize the necessary contract and grant documents so that Phase II (design and bidding) of the project can commence. The Village Board approved the agreements with Metra and Legat Architects on September 26, 2011, and the Metra Board approved the agreements on October 14, 2011. The Village received a notice authorizing the Village to proceed with the Phase II work from Metra in January, 2012.

Project plans and specifications were completed and approved by Metra in November, 2012. A bid opening for the project was held on December 11, 2012. Six bids were received for the project and all were significantly higher than the architect's estimate and thus exceeded the project budget.

Federal procurement regulation required the Village to award a contract to the lowest responsible bidder or cancel the bidding process and reject all bids. At the Board meeting on January 14, 2013 all bids were rejected so an analysis of the bids could be completed in an attempt to ascertain why the bids were so high. From this analysis staff plans to work with the architect and Metra to revise the plans and specifications as necessary and appropriate, and rebid the project with the goal of achieving a low bid from a qualified contractor that is within the project budget.

Additional phases of the project will be considered in the future as grants and other funding become available.

PEDESTRIAN SIGNAL IMPROVEMENTS (BOLLARDS)

In FY2009-10, the Village updated pedestrian crossing signals with numerical timer displays and new symbol displays. As part of the Village's overall effort to improve pedestrian safety throughout the Village, the FY2011-12 budget reflected the relocation of pedestrian push buttons to bollards to make them more visible and convenient for use by pedestrians. Additionally, the bollards would provide protection for pedestrians from turning vehicles. The intersections on La Grange Road that were considered for pedestrian push button relocation were at Cossitt, Harris, Burlington, Hillgrove and Ogden Avenues. The Village contracted with KLOA in FY2010-11 to

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complete preliminary engineering plans for the project in the amount of \$5,000. In FY2011-12, the Village contracted with KLOA to complete the detailed engineering plans and specifications in the amount of \$25,000.

Ultimately, several challenges were identified as part of the engineering design. First, ADA rules would have required the bollards to be taller than other bollards located throughout the CBD. The new bollards would not have been contextual with other CBD features. Second, locating the bollards would have been difficult due to the existing geometry of the intersections. Therefore, the project to relocate the bollards was eliminated and the State Capital funds for the project were re-allocated to the Willow Springs Road Traffic Signal Project.

SOUTH of 47TH STREET DRAINAGE STUDY

A drainage study for the area south of 47th Street between Brainard and La Grange Road was initiated due to wide spread flooding problems in the summer of 2010. This study has been completed and determined flooding resulted from a sewer infrastructure system that did not have (1) the adequate drainage capacity, (2) an effective overland flow path, or (3) a sufficient drainage outlet to handle a rain event of that magnitude. The total cost of Village improvements identified in the report were estimated to be \$22,198,000.

The issues associated with the drainage basin south of 47th Street involve many stakeholders both at the local and regional levels (Villages of La Grange, Countryside, Indian Head Park, Lyons Township, Metropolitan Water Reclamation District, Cook County and the Illinois Department of Natural Resources). A meeting with the stakeholders was held on August 31, 2011 to discuss the regional problems of flooding in this area. Staff will continue to coordinate with the regional planning group for a solution to the drainage issues identified within this watershed.

Additionally, staff will continue researching financing options for funding identified sewer projects such as OARS, MARS and South of 47th Street.

FIRE DEPARTMENT APPARATUS FLOOR

In response to potential structural deficiencies of the apparatus floor at the Fire Department, a structural engineer was engaged to evaluate the condition of the existing floor and make recommendations for improvement. The structural report was completed in 2009 and determined that the following repairs are needed:

- A. Repairs to deteriorated slab due to corrosion of reinforcement steel.
- B. Assessment of beam capacity. Should beam capacity be determined to be insufficient repair is needed.
- C. Shim existing girders with support beams to add support.

Based on these recommendations, the Village contracted with the structural engineer to design the repairs for the concrete floor, perform physical load tests of the beams to verify capacity, and

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develop detailed plans and specifications for the work. The contract for this work is in the amount of \$36,000. Funds were budgeted for this work in FY2010-11, however the work was delayed to the following fiscal year due to other priorities.

The structural load test of the West and Center Bays of the apparatus floor was completed in April 2012. Test results indicated that the actual strength of the beams below the west and center bays have sufficient capacity to support the weight of the current apparatus. Therefore, no strengthening repairs are needed. This determination represents a significant cost savings to the Village.

The plans, specifications and cost estimates for repairs to the floor slab have also been completed. The estimated construction costs for the identified repairs to the floor slab are approximately \$400,000. These repairs are not immediately required; however completion of the plans will allow the Village to move forward with the project in the future if so desired. A funding source has not been identified for the project.

OGDEN AVENUE RELIEF SEWER PROJECT

The OARS project involves the construction of a relief sewer along Ogden Avenue, Ashland Avenue and Bell Avenue to improve the drainage characteristics of the watershed. A preliminary engineering study of the project was completed in 2010 to develop a preliminary layout for future segments and create a detailed construction cost estimate.

The estimated cost to complete construction of OARS is \$6.0 million. Similar to MARS, due to funding limitations staff recommends that the project be phased. Since the first phase of the project involves the construction of a sewer adjacent to and within Gordon Park and the YMCA property, ideally the construction of the first stage of this project would be coordinated with any improvements to these parcels. By doing so we would be limiting the disruption to the community and secondly, cost sharing initiatives could be explored. The Park District of La Grange has indicated their intention of reconstructing Gordon Park starting in the spring of 2013. A preliminary cost estimate for the construction of this first segment estimates the costs for the project to be approximately \$1,104,000.

As previously stated, the advantage of constructing the OARS sewer in conjunction with the anticipated work with Gordon Park would be to limit the disruption caused by the construction work. However, due to the significant costs of constructing the first segment of OARS and limited Village resources, there is no budget recommendation for this project at this time.

Staff will work with the Park District to identify necessary easements and locating proposed structures within Gordon Park in order to support the future construction of OARS. Additionally, staff will continue researching financing options for funding identified sewer projects such as OARS, MARS and South of 47th Street.

NORTHEAST PLANNING AREA

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As part of the land use approval for the YMCA redevelopment project, a number of public improvements were identified, which would serve the development and also result in community benefits. This line item was created to reflect expenditures to design and implement certain improvements in advance of any redevelopment projects, primarily: (a) traffic lane re-configuration on southbound La Grange Road, between Brewster and Ogden Avenues; and (b) completion of the engineering process to secure IDOT approval and for the future installation of a traffic signal at Ogden and Locust Avenues.

FY2011-12 budgeted expenditures include costs for replacing the sidewalk and curbs on the northeast corner of Ogden Avenue and La Grange Road (\$18,000) and expenses for re-striping La Grange Road between Ogden Avenue and Brewster Avenue. The re-striping project includes the removal of striping for six on street spaces on the west side of La Grange Road north of Ogden Avenue and South of Brewster Avenue. (\$4,279)

While there is no budget recommendation concerning this line item at this time, we do note that IDOT has also identified this intersection for improvements as part of their highway safety improvement program. Specifically, IDOT is considering improvements such as the addition of a west bound to north bound turning lane on Ogden Avenue. Staff plans to continue to work with IDOT as the scope of work for this project is identified so as to communicate the interests of the Village related to safety and traffic flow at the intersection, as well as planning for the potential development at the northeast corner. Should preliminary engineering be required, staff will return to the Village Board with a report seeking funding authorization for that work.

LA GRANGE ROAD CORRIDOR IMPROVEMENTS

Calendar Avenue Pedestrian Crossing

Currently a pedestrian crossing exists on La Grange Road at Calendar Avenue. As this is a frequently utilized crossing, the Village will continue to research options to enhance this crossing such as the addition of flashing yellow beacons on the pedestrian warning signs. Should an enhancement to this crossing be recommended, various funding options will be explored.

52nd Street Pedestrian Crossing

Staff is currently working with the DCEO and state representatives to reallocate funding currently designated in the State's Capital Bill for a pedestrian bridge over Ogden Avenue to pedestrian safety improvements within the 47th Street, Ogden Avenue, and La Grange Road corridors. The total funding for the Ogden Avenue pedestrian bridge in the amount of \$400,000 is proposed to be re-allocated between four projects as follows:

1. Crosswalk Safety Enhancements – 47 th Street adjoining Waiola Park	\$120,000
2. Crosswalk Safety Enhancements – La Grange Road and 52 nd Street	\$120,000
3. Crosswalk Safety Enhancements – 47 th Street and 9 th Avenue	\$120,000
4. School Zone Enhancements on Ogden Avenue	<u>\$40,000</u>
Total	\$400,000

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Once approval from the DCEO is received a total of \$120,000 would be available for this project. The FY2013-14 budget reflects receipt of these grant funds for the project.

In 2011, an engineering agreement with KLOA was executed in the amount of \$14,500 to complete the detailed engineering for the project. The preliminary design for this project has been completed. Since pedestrian volumes fall short of threshold levels for a red beacon device and due to the width of the existing roadway (5 lanes of traffic), the consensus direction from the Village Board was to focus on pedestrian improvements on Ogden Avenue and 47th Street.

POPLAR PLACE DRAINAGE IMPROVEMENTS

A drainage investigation for Poplar Place was initiated due to complaints received by residents related to street, rear yard and basement flooding occurring within the Poplar Place neighborhood, generally located north of Hillgrove Avenue, west of Edgewood Avenue, south of 41st Street, and east of Drexel Avenue. It was determined that the flooding caused within this neighborhood was mainly the result of a poorly planned and constructed sewer system built to serve this neighborhood.

Detailed engineering plans and specifications for this project were completed in April 2012. The plans called for a new 12-inch storm sewer to be constructed between Poplar Place and Edgewood Avenue and connect into the existing storm sewer system on Edgewood Avenue. The project also included sewer lining for some of the existing sanitary sewers, relocation of several water mains and roadway and sidewalk repairs. The project was completed on time in September 2012 and within the budgeted amounts.

The total expenditures and revenues for the project are detailed in the following table.

POPLAR PLACE DRAINAGE IMPROVEMENTS	BUDGET
Expenses	
Engineering	
Phase II – Development of Plans and Specifications	35,610
Phase III – Construction Engineering	28,350
Subtotal	63,960
Construction	
Right-of-Way Acquisition	3,000
Construction	290,000
Landscape Restoration	7,913
Subtotal	300,913
Total	364,873
Revenues	
Capital Projects Fund – FY2011-12 Budget (Engineering)	25,000
Capital Projects Fund - FY2012-13 Budget (Construction)	250,000

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Sewer Fund – FY2012-13 Budget (Construction)	200,000
Total	475,000

The overall project came in approximately \$110,000 below estimated costs. Please note, funds for construction costs for this project were also budgeted in the FY2012-13 Sewer Fund in the amount of \$200,000.

50/50 SIDEWALK PROGRAM

The Village offers an annual program to residents to split the cost of public sidewalk repairs. A list is maintained of residents that have requested to participate and the funds from this account pay for the Village's portion of work. Also, funds from this account are used to repair curbs and gutters throughout the Village. As part of the cost containment plan this program was reduced three years ago from \$50,000 to \$15,000. The sidewalk replacement program continues to be a popular program with approximately 60 residents on the waiting list.

In FY2012-13, 1,792 square feet of sidewalk and 62 lineal feet of curbs and gutters were replaced under this program.

The FY2013-14 budget reflects \$10,000 for the 50/50 sidewalk replacement program. In addition, funds of \$5,000 are budgeted for the replacement of damaged or hazardous sidewalk squares in the business districts, which may be used for the residential program depending upon demand.

The FY2013-14 budget also includes costs to repair sidewalks on Hillgrove Avenue that were identified as requiring repair as part of an agreement with the Illinois Attorney General for this area. The Village subsequently contracted with Baxter & Woodman to identify and provide a cost estimate for the repairs. The total costs are estimated to be \$80,000. Included in the cost estimate is the removal and replacement of sidewalk, driveway, curb and gutter, thermoplastic pavement markings and parkway restoration.

The Public Works Department will continue to implement and explore other alternatives for repairing sidewalks such as saw cutting.

TREE PLANTING

The Village has a long and proud heritage of maintaining tree-lined streets dating back to its founding father, Franklin Cossitt. In maintaining our urban forest, the Village strives to plant a replacement tree for each parkway tree removed due to disease and damage (storm, vehicular, etc.) In addition, the Village attempts to fill vacant parkway locations if available funds allow. The Village again plans to participate in the WCMC Tree Consortium for 2013 planting in 2013 at various locations throughout the Village.

The average number of trees planted for the past six years is 108 per year. The total number of

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trees planted in FY2012-13 under the normal tree planting program is estimated to be 96. Please note that the number of elm trees removed each year is going down as the population of elm trees susceptible to Dutch Elm disease diminishes. Additionally, revenue in the amount of \$7,365.50 was collected from individual residential construction projects for the replacement value of six parkway trees.

In September 2012 staff requested and the Board approved staff to utilize funds from the Public Works Tree Removal line item and Capital Projects Tree Planting line item for the removal and replacement of additional Ash trees. Available funds exist in these line items since the number of trees lost from Dutch Elm disease is lower. A budget amendment will be required to recognize the additional cost in the Capital Improvement Budget line item for EAB and lower costs in the Capital Project Fund – Tree Planting and Public Works – Tree Removal line items.

Tree planting costs associated with the Emerald Ash Borer is a separate line item in the Capital Budget in order to keep track of costs separately.

EMERALD ASH BORER

The Emerald Ash Borer (EAB) continues to spread throughout the Village since its initial discovery last year. This beetle attacks ash trees by burrowing into the tree and disrupting the nutrient supply to the tree. Based on the most tree survey, La Grange has approximately 2,000 ash trees located in public parkways. Staff is currently in the process of updating the ash inventory in order to better budget costs and resources associated with the EAB. Please note the tree surveys do not include ash trees located on private property. The Village anticipates that all of the ash trees will need to be replaced and therefore had previously budgeted the replacement of these trees over a twelve year period.

The budget is based on the expectation that expenditures are expected to increase for several years and then begin to taper off as trees are replaced. Assuming all of the ash trees will need to be replaced, total costs are estimated to be approximately \$1.9 million. The total budget expenditures will be adjusted in future years based on the updated ash tree inventory.

To date a total of 157 ash trees have been removed and replaced that were found to be infected with the EAB. In September 2012 staff requested and the Board approved staff to utilize funds from the Public Works Tree Removal line item and Capital Projects Tree Planting line item for the removal and replacement of additional Ash trees. Available funds exist in these line items since the number of trees lost from Dutch Elm disease is down. A budget amendment will be required to recognize the additional cost in the Capital Improvement Budget line item for EAB and lower costs in the Capital Project Fund – Tree Planting and Public Works – Tree Removal line items.

The number of ash trees removed in FY2012-13 was 100, with a budget quantity of 75. Staff believes the increased removal quantity is indicative of an accelerated ash removal schedule from the prior schedule assumed for budgeting purposes. Staff recommends altering the EAB budget to reflect this accelerated ash removal schedule. Specifically, staff has budgeted for the

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removal and replacement of 200 ash trees in FY2013-14 in the amount of \$155,000. Future budget years also reflect the accelerated ash removal schedule as well. Staff will continue to track EAB progress and make recommendations for budget adjustments based on the future spread of the insect.

We are continuing with our plan to meet with adjacent property owners to discuss removal and replacement once EAB has been identified. While sensitivity will be exercised, removal will be encouraged when ash trees reach the point of no longer providing a benefit such as shade, are not aesthetically pleasing and/or pose a hazard. Staff has developed a pilot program for treating approximately 100 healthy white Ash trees to gauge the effectiveness of the chemical treatments. Staff will continue to monitor the spread of EAB and act as a resource to residents. Finally, the Village applied for and received a grant through the Metropolitan Mayors Caucus to replace Ash trees removed due to the EAB in the amount of \$10,000 in FY2011-12. Staff plans to reapply for this grant opportunity each year it is available.

SEWER TELEVISIONING

The Village owns and maintains approximately 360,000 lineal feet of sanitary, storm and combined sewers. Their proper operation is critically important to maintaining public health and for purposes of storm water management. Current funding allows for the videotaping and cleaning of each sewer every 20 years.

The Village has budgeted a total of \$60,000 annually (\$25,000 within the Capital Projects Fund and \$35,000 within the Sewer Fund) to conduct the cleaning and televising of our sewer system infrastructure. The purpose of the sewer televising and cleaning program is to maintain the Village's sewer system by removing debris from within the sewers, assessing the condition of the pipes, and identifying areas that require immediated repair. The information collected from the televising is then used to aid in future infrastructure planning and mapping objectives. Generally, this program focuses on televising sewers on streets in advance of resurfacing or other reconstruction projects.

The Village contracted with Baxter & Woodman to prepare bidding documents and provide bidding assistance for the 2012 Sewer Televising Program. The sewers in the 2012 Sewer Televising Program include sewer segments on Cossitt Avenue, Maple Avenue, Peck Avenue, Edgewood Avenue, Waiola Avenue and Hillgrove Avenue. The work for this program is scheduled to be completed this winter.

Please note that the information gained from this program over the last five years was used to estimate sewer repair costs that were included in the street condition survey. The Village plans to continue to refine the program so that each sewer is televised and cleaned on a specific schedule. Televising of the system provides video documentation of the condition of our system, and will help establish street reconstruction priorities based upon infrastructure needs.

MANHOLE REPLACEMENT

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Previously it was proposed that after completion of the six-year sewer televising program in FY2010-11 funding would shift back to the manhole replacement program. Due to reduced funding, this program has been temporarily discontinued. Manhole replacement will continue to be completed as part of the street resurfacing projects, with additional manhole repairs and maintenance continuing to be budgeted in the Sewer Fund.

VILLAGE HALL HVAC IMPROVEMENTS

The Village owns and maintains three primary buildings used for municipal government operations. These buildings include Village Hall, Police/Fire Station and the Public Works Facility. As these facilities age, various maintenance and improvement projects are necessary.

The HVAC Improvement Project consisted of various renovations to all three facilities: Village Hall, Public Works Department and Fire Department. The HVAC improvement project at Village Hall consisted of (1) a complete replacement of the HVAC system to more energy efficient equipment; (2) replacement single pane windows in the lower level; (3) replacement of light fixtures in the lower level to more energy efficient fixtures and (4) renovation of the Administration Department's office area, lower level public space area, and the main staircase, as a result of disruption already caused by the electrical and mechanical upgrades. HVAC improvements at the Police/Fire Station included improvements to the HVAC system located on the second floor of the Fire Department. Improvements to the Public Works Facility included (1) complete replacement of the HVAC system; (2) replacement of lighting to more energy efficient fixtures and (3) renovations to the office space, as a result of disruption already caused by the electrical and mechanical upgrades. FY 2011-12 and FY2012-13 expenditures reflects the costs for the renovations, including architectural and engineering services, asbestos abatement, construction and furniture purchases. The total cost for the project was \$743,309.

The Village applied for and received three separate grant funds in the amount of \$442,017 for this project: (1) American Recovery and Reinvestment Act - Energy Efficiency and Conservation Block Grant Program (ARRA EECBG) - Metropolitan Mayors Caucus - \$363,555 ; (2) Illinois Department of Community and Economic Opportunity - Public Sector Electric Efficiency Grant Program - \$5,695 and (3) the American Recovery and Reinvestment Act Energy Efficiency and Conservation Block Grant Program (ARRA EECBG) - Cook County - (\$72,767). The Village also contributed \$300,000 from the Equipment Replacement Fund for this project. The total revenues for this project were \$742,017.

This project was substantially completed in November 2011 and was completed at the budgeted amounts. The expenditures in FY2012-13 represent the final payment to the contractor for the project.

BLUFF AVENUE RECONSTRUCTION PROJECT

The Bluff Avenue Reconstruction Project consisted of the reconstruction of Bluff Avenue from Burlington Avenue to 47th Street. This project included the installation of new combined sewers, water main, drainage structures, sidewalk, curb/gutter and reconstruction of the street. In order

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to facilitate receiving grant funding for this project, the project was divided up into three stages as follows:

- Stage I Reconstruction of Bluff Avenue from Burlington Avenue to Cossitt Avenue – Street reconstruction consisted of a new asphalt surface, curb and gutters, sidewalks, parkways, and water and sewer upgrades where required.

- Stage II Sewer construction from Cossitt Avenue to Maple Avenue – This sewer provided the drainage necessary for Stage III and was the first phase of the large Maple Avenue Relief Sewer (MARS) initiative. The outlet sewer connects the Bluff Avenue corridor to the deep tunnel connection at Cossitt and East Avenues.

- Stage III Reconstruction of Bluff Avenue from Cossitt Avenue to 47th Street – Street reconstruction consisted of a new asphalt surface, curb and gutters, sidewalks, parkways, and water and sewer upgrades where required.

The project was funded through a combination of sources, principal among them being Federal Surface Transportation Funds for street reconstruction, which required a 70/30 cost sharing. The Village used MFT funds for our local 30 percent match. The combination and staging of the projects allowed the Village to secure additional STP funding and increase utilization of MFT funds. The following chart is the total project budget; please note that the fiscal year budgets are allocated differently due to the timing of the project phases.

	Phase I and II Engineering	Stage 1	Stage 2	Stage 3	Total
Estimated Expenses					
Engineering					
Phase I and II Engineering	397,917				
Phase I and II Engineering	120,000				
Phase III - Federal – Participating		70,000	103,279	122,566	295,845
Phase III - Local - Non-Participating		30,000	44,263	52,528	126,791
Subtotal		100,000	147,542	175,094	422,636
ROW Acquisition					
Appraisal and Negotiation			3,400	6,700	10,100
Railroad Easement		0	35,310	0	35,310
Pinner Electric Easement		0	28,500	0	28,500
Elizabeth Patterson				2,000	2,000
Subtotal		0	67,210	8,700	75,910
Construction					
Federal – Participating		555,275	1,807,634	1,411,340	3,774,249
Local - Non-Participating		415,099	774,700	1,264,910	2,454,708

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Subtotal		970,374	2,582,334	2,676,250	6,228,958
Misc. Expenses		1,086	1,790	0	2,876
Total	517,917	1,071,460	2,798,876	2,860,043	6,730,379
Revenues					
STP		625,275	1,910,913	1,533,906	4,070,094
Capital Projects Fund		0	0	0	0
Motor Fuel Tax Needed		327,185	826,962	690,138	1,844,285
Sewer Fund		0	61,000	194,000	255,000
Water Fund		119,000	0	442,000	561,000
Total		1,071,460	2,798,876	2,860,043	6,730,379
Motor Fuel Tax Approved		300,000	835,860	844,068	1,979,928

Construction of Stage I was completed in summer of 2009. Stage II was completed in 2010. Stage III construction was substantially completed in fall of 2011. Stage III also included the installation of a new 12” water main along the length of Bluff Avenue replacing an existing water main that was notoriously prone to failure.

The total cost for all three stages of the project was roughly \$6.7 million. Of this amount, the Village received approximately \$4.1 million in federal grants through the Surface Transportation Program for the project. Staff will continue to work to close out this project over the next year and submit the required close out materials to IDOT. The FY2013-14 budget reflects final payment to IDOT for this project in the amount of \$490,854.

47th STREET CORRIDOR IMPROVEMENTS

47th Street Lane Reduction

The Village initiated a study in FY2010-11 to assess the feasibility of reducing the profile of 47th Street from a four lane to a three lane cross section. An origin and destination study was also completed to determine and quantify the user groups and percentage of local traffic on 47th Street.

These studies were presented to the Village Board for consideration at the traffic and pedestrian safety workshop held on January 25, 2011. The direction from the Village Board was to continue to receive resident feedback on the concept, and not to allocate funding for additional assessment or design at this time. Expenditures for the two studies totaled approximately \$22,500 in FY2010-11.

Pedestrian Activated Crossings

Pursuant to a discussion by the Village Board at the traffic and pedestrian safety workshop, staff

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was directed to pursue the installation of an enhanced crossing, with a stop condition at 47th Street and Waiola Avenue. The Village Board also directed staff to upgrade the existing pedestrian crossing at 47th Street and 9th Avenue to a stop condition. These improvements are part of the Village's strategy of evaluating and improving pedestrian safety throughout the Village. The proposed design of these two pedestrian crossings provides for the installation of a pedestrian activated red signal that would require vehicles to stop at the intersection. The direction for these initiatives was reaffirmed by the Village Board at the Capital Projects Workshop in 2012.

An engineering agreement with KLOA was executed in the amount of \$14,000 and \$13,500 to complete the detailed engineering for pedestrian crossing improvements at 47th Street and Waiola Avenue and 47th Street and 9th Avenue, respectively. The preliminary design for these projects has been completed. IDOT initially denied the Village's request to install the pedestrian hybrid beacons citing certain provisions in the MUTCD and Illinois State laws as reasons. Staff subsequently met with IDOT in order to get a better understanding of IDOT's thought process and to continue to advocate for the installation of the pedestrian hybrid beacons on August 21, 2012. IDOT indicated that they would perform additional research on the topic based on the information presented by the Village. We are still waiting on IDOT's response related to the Village's application to install pedestrian hybrid beacons.

Staff is currently working with the DCEO and state representatives to reallocate funding currently designated in the State's Capital Bill for a pedestrian bridge over Ogden Avenue to this project. The total funding for the Ogden Avenue pedestrian bridge in the amount of \$400,000 is proposed to be re-allocated between four projects as follows:

1. Crosswalk Safety Enhancements – 47 th Street adjoining Waiola Park	\$120,000
2. Crosswalk Safety Enhancements – La Grange Road and 52 nd Street	\$120,000
3. Crosswalk Safety Enhancements – 47 th Street and 9 th Avenue	\$120,000
4. School Zone Enhancements on Ogden Avenue	<u>\$40,000</u>
Total	\$400,000

Once approval from the DCEO is received a total of \$240,000 would be available to these projects. The FY2013-14 budget reflects the receipt of these grant funds for the project. In order for the project to move forward both a permit from IDOT and funding from the state need to be obtained.

47th Street & East Avenue Traffic Signal Feasibility Study

An intersection design study was initiated for improvements at East Avenue and 47th Street to determine if a signal is warranted at the intersection to enhance the operation and safety of the intersection. Additionally, a signal at this intersection would provide additional gaps in traffic for westbound traffic which would improve pedestrian safety along 47th Street. As part of their study KLOA determined that a signal is warranted at this intersection based on several different criteria.

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Since this intersection is being considered for improvements as part of a regional plan associated with the settlement agreement with Joliet Road, the traffic engineering report has been forwarded to IDOT and others in the regional planning group for their consideration. The regional planning group and IDOT are currently prioritizing projects that have been identified as part of the Joliet Road closure. Additionally, this project has been identified as part of the CREATE Project, to improve traffic flow at the intersection with the IHB Railroad.

Finally, IDOT has initiated a Phase I study for these intersection improvements including hosting a public meeting on the subject on January 31, 2013. Once the report has been released, staff will review the report and make recommendations to the Village Board. Comments will then be provided to IDOT based on the consensus direction received from the Village Board in response to staff's assessment.

OGDEN AVENUE CORRIDOR IMPROVEMENTS

The Village has requested that a permanent 20 mph school speed zone be implemented along Ogden Avenue between Park Road and Spring Avenue due to the multiple schools within this corridor that are adjacent to the roadway. IDOT denied the Village's request stating that this stretch of Ogden Avenue does not meet their standards for a school speed zone. Staff plans to continue to petition IDOT for the creation of a school speed zone.

Additionally, plans and specifications were developed by KLOA for the installation of a flashing yellow beacon mounted above the advanced school crossing sign. These flashing signs would be activated during school hours to alert motorists of the school crossing. The estimated cost to install these signs is \$31,000. In August 2012, staff requested a highway permit from IDOT for the installation of these signage enhancements. IDOT did not support the installation of the flashing beacons as requested in the Village's application. However, staff responded to IDOT's comments and is waiting for a response on the permit request.

Staff is currently working with the DCEO and state representatives to reallocate funding currently designated in the State's Capital Bill for a pedestrian bridge over Ogden Avenue to this project. The total funding for the Ogden Avenue pedestrian bridge in the amount of \$400,000 is proposed to be re-allocated between four projects as follows:

1. Crosswalk Safety Enhancements – 47 th Street adjoining Waiola Park	\$120,000
2. Crosswalk Safety Enhancements – La Grange Road and 52 nd Street	\$120,000
3. Crosswalk Safety Enhancements – 47 th Street and 9 th Avenue	\$120,000
4. School Zone Enhancements on Ogden Avenue	<u>\$40,000</u>
Total	\$400,000

Once approval from the DCEO is received a total of \$40,000 would be available to this project. The FY2013-14 budget reflects the receipt and expenditure of these grant funds. In order for the project to move forward both a permit from IDOT and funding from the state need to be obtained.

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NEIGHBORHOOD STREET PROJECTS

The purpose of the Neighborhood Resurfacing Program is to plan for the routine resurfacing and repair of neighborhood streets on a defined schedule. The Village requested and received a proposal from Baxter & Woodman to complete this project. Funds in the amount of \$30,000 were budgeted for this project in FY2011-12 to coincide with the Capital Project budget development process. The Village contracted with Baxter & Woodman in the amount of \$28,500 to complete the report, which was completed in the fall of 2011. The Village Board received a copy of the report at that time along with an executive summary and staff recommendations. The establishment of the next generation of neighborhood street priorities for the Village are presented under staff recommendations.

MISCELLANEOUS ENGINEERING

The miscellaneous engineering line covers expenses for consulting engineering services that are (1) not anticipated at the time of budgeting, (2) are not associated with a separate capital improvement project and/or (3) require special expertise.

FY 2012-13 expenditures include miscellaneous engineering services for the Hillgrove Avenue Sidewalk Repair Project, and engineering services for lighting upgrades to the Police and Fire Department and professional services to re-fresh the planting areas in the Village Hall Plaza and fountain area, which have been damaged or are in a state of decline. Also included in the FY2012-13 budget is the long term strategic plan for the Public Works Department (\$20,000). The long term strategic plan for the Public Works facility was re-budgeted for FY2012-13 due to other departmental priorities. We expect to start this project in the Spring of 2013. Also included within this line item are expenses for engineering reviews of non-Village projects by the Lyons Township High School (sewer work at North Campus) and Park District of La Grange (Gordon Park Renovations.) Outside expenses such as these are reimbursed to the Village by these organizations.

CRACK FILLING PROGRAM

Crack sealing streets is a preventative maintenance activity that extends the life expectancy of the Village's streets. The exact streets to be cracked sealed will be determined each year based on street condition assessment. The program will also be assessed against expected street resurfacing projects as identified in the Street Condition Survey.

During FY2012-13 crack seal was completed on Brainard Avenue from 55th Street to Burlington Avenue. Crack sealing was also completed on the following streets in Area E: Park Avenue from 47th Street to Elm Avenue; Leitch Avenue from 47th Street to Elm; Edgewood Avenue from 47th Street to Cossitt Avenue and Sunset Avenue from Maple Avenue to Cossitt. Based on an initial survey, we expect crack sealing to occur in FY2013-14 in the following areas: (1) Area E: Sunset Avenue from 48th Street to Maple Avenue; Blackstone Avenue from 48th Street to Cossitt and Park Road from 48th Street to Cossitt, (2) Area 6 (East-West Streets) includes Country Club Drive and Calle View Drive, and (3) Area 5 - (East West Streets) includes 53rd Street which is

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generally bound by Brainard Avenue to the west and Spring Avenue to the east and 54th Street which is generally bound by Brainard Avenue to the west and Kensington Avenue to the east.

THERMOPLASTIC STREET MARKING

As part of our overall effort to improve pedestrian and vehicle safety throughout the Village, each year we re-stripe various thermoplastic street markings that are damaged or worn from vehicles, plows and other deteriorating conditions to improve the visibility of the markings.

A schedule has been established for replacing the thermoplastic street lining at all marked intersections within the Village. This will be an ongoing project with each intersection being updated during specific years. Major intersections will be relined annually while intersections with less traffic volume are scheduled at varying intervals. The exact streets to be striped will be determined after snow plowing season has ended. The Village contracts annually with a thermoplastic pavement marking company through the Northwest Municipal Conference in order to take advantage of the economies of scale through bulk purchasing.

SEWER LINING PROGRAM

The Village owns and maintains approximately 360,000 feet of sewers. The life expectancy of a sewer can vary, but a conservative estimate is that the useful life of a sewer is 100 years. Therefore a rehabilitation program to repair, replace and/or rehabilitate the existing infrastructure is required to maintain the functionality of the existing system. Traditionally, the Village splits the cost of maintaining combined sewers between the Capital Projects Fund (storm sewer portion -90%) and Sewer Fund (sanitary sewer portion – 10%).

To start repairing some of the Village's sewers, staff proposed an annual sewer lining program with a cured-in-place liner that provides a new structurally sufficient pipe within the existing pipe. This process is less disruptive to residents since it does not require traditional open trench methods for installation.

Due to limited funding, this program was put on hold until sufficient reserves were accumulated to sustain the program on an annual basis. This maintenance activity is planned to resume in FY2016-17 in the amount of \$100,000 annually.

PARKING LOT 2 REHABILITATION

Parking Lot No. 2, located on the north side of Harris Avenue, between 6th Avenue and 7th Avenue required resurfacing. The rehabilitation project included the resurfacing of the existing parking lot; improvements to the drainage structures and replacement of the existing lighting units with energy efficient LED lamps.

The engineering and design was completed this summer and construction of the lot was completed in November 2011. The final cost for the project was \$214,000.

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VILLAGE OF LA GRANGE
Department of Public Works

EXECUTIVE COMMITTEE REPORT

TO: Village President, Village Board of Trustees
Village Clerk and Village Attorney

FROM: Robert Pilipiszyn, Village Manager
Ryan Gillingham, Director of Public Works
Lou Cipparrone, Finance Director

DATE: January 28, 2013

RE: **CAPITAL PROJECTS FUND -- STAFF RECOMMENDATIONS
FY 2013-14 & FUTURE OUTLOOK**

MAPLE AVENUE RELIEF SEWER

The purpose of the Maple Avenue Relief Sewer is to add additional capacity to the existing sewer system to address flooding in areas tributary to the Cossitt Avenue Sewer. The project involves the construction of a relief sewer along Maple Avenue from Bluff Avenue to Peck Avenue. The sewer pipe will range from 60 inches in diameter at Bluff to 24 inches at Peck. The relief sewer will intercept drainage from the existing combination sewers crossed in construction, providing relief for the existing Cossitt Avenue Sewer. The wet weather flows from MARS would flow directly into the regional deep tunnel system called TARP operated by the Metropolitan Water Reclamation District of Greater Chicago (MWRD).

The Village was able to construct the first stage of MARS in 2009-10 as part of the Bluff Avenue Reconstruction Project. The construction of the first stage of the MARS project involved connecting a sewer to the deep tunnel at the corner of Cossitt and East Avenues. The new sewer then extends to the intersection of Maple and Bluff Avenues where wet weather flow from this area is redirected to the new MARS sewer segments.

In order to plan for the construction of the remaining segments of the MARS project, a preliminary engineering study was initiated with Heuer and Associates in the amount of \$15,000. The findings contained within this report were presented to the Village Board at the sewer improvement workshop in January 2011. At this meeting the Village Board directed staff to continue with the advancement of this project by constructing the next segment of MARS. In furtherance of this direction, \$200,000 was allocated in FY2011-12 for the design of the next stage of MARS from roughly Bluff Avenue to La Grange Road, and \$2,000,000 has been allocated for construction in FY2013-14. These funds consist of a combination of MFT

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(\$1,400,000) and capital improvement program funds (\$600,000.)

A contract was awarded to Baxter & Woodman for the completion of the detailed engineering for the next stage of MARS in the amount of \$189,700. The plans and specifications have been completed and have been submitted to the MWRDGC, IEPA, IDNR, and IDOT for approval. The expenses incurred in FY2012-13 reflect final payment for the engineering services.

A noteworthy item from the engineering to date is the confirmation of a shallow rock layer along Maple Avenue. Based on current cost estimates, staff anticipates that construction of the relief sewer will extend to 7th Avenue based on the available budget of \$2,000,000. Should bid prices be lower, alternate bids for the next segment up to 6th Avenue have been requested. Staff anticipates that the project will be bid this spring with construction starting in the Spring/Summer of 2013. The project would then be finished in the Fall/Winter of 2013.

Finally, staff will continue to search and apply for grants and identify alternate funding sources to offset the costs of construction or to accelerate construction of future segments.

NEIGHBORHOOD STREET PROJECTS

The purpose of the Neighborhood Street Resurfacing Program is to plan for the routine resurfacing and repair of neighborhood streets on a defined schedule. The detailed street condition survey completed by Baxter & Woodman in 2011 provides for the “next generation” street resurfacing program with the added dimension of having our underground utilities (water & sewer) considered for repairs or replacement at the same time.

As part of the development of this program, staff recommended a change in policy in the resurfacing program. Under our recently completed 15-year plan, street resurfacing was prioritized on a neighborhood-wide basis. As the street condition survey provides for a reliable set of baseline information, staff recommended taking a more data-driven approach to street resurfacing by allocating resources on a block segment basis through the resurfacing of street segments with the greatest need within the annual budget allotment. The intent is to maximize available resources by performing work to extend the underlying integrity of the roadway and thus avoid prematurely incurring the cost of street reconstruction.

Staff recommends updating the street condition survey every five years to note changes in condition and to update the relative ranking of street segments. Additionally, staff plans to make an assessment of our capital maintenance needs such crack-filling and street patching to see if additional resources will be required to keep streets in good condition and stable until such time that resurfacing occurs.

Based on this revised approach staff recommends the following streets for resurfacing in the five year capital improvement program:

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STREET	FROM	TO	PAVEMENT CONDITION INDEX SCORE	ESIMATED COST TO REPAIR
RECOMMENDED FY2013-14 STREET IMPROVEMENT PROGRAM				
41ST ST	DOVER AVE	PARK RD	21	42,339
41ST ST	PARK RD	BRAINARD AVE	24	47,471
41ST ST	MAIDEN AVE	DOVER AVE	37	36,194
41ST ST	EDGEWOOD AVE	MAIDEN AVE	39	36,194
			Subtotal	162,199
BELL AVE	DOVER AVE	PARK RD	37	41,205
BELL AVE	EDGEWOOD AVE	MALDEN AVE	43	40,590
BELL AVE	MALDEN AVE	DOVER AVE	43	40,590
BELL AVE	PARK RD	BRAINARD AVE	48	46,740
			Subtotal	169,125
PARK RD	ARLINGTON AVE	41ST ST	43	47,333
			Subtotal	47,333
			TOTAL	378,657
			FY2012-13 Budget (Engineering)	28,000
			FY2013-14 Budget (Construction)	378,000

STREET	FROM	TO	PAVEMENT CONDITION INDEX SCORE	ESIMATED COST TO REPAIR	COMMENTS
RECOMMENDED FY2015-16 STREET IMPROVEMENT PROGRAM					
50TH ST	GILBERT RD	END	25	54,720	This street is in poor condition and provides access to three properties. Additionally this segment of roadway has not been improved to Village standards that include concrete curbs and gutters, sidewalks and storm sewers. Therefore staff recommends overlaying the existing asphalt to maintain the existing driving surface.
KENSINGTON AVE	MAPLE AVE	ELM AVE	30	105,878	
KENSINGTON AVE	ELM AVE	COSSITT AVE	34	109,322	
KENSINGTON AVE	COSSITT AVE	HARRIS AVE	37	48,006	
KENSINGTON AVE	GOODMAN AVE	MAPLE AVE	43	122,234	

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KENSINGTON AVE	47TH ST	GOODMAN AVE	48	116,208	
			Subtotal	501,648	
MAPLE AVE	SUNSET AVE	BLACKSTONE AVE	42	62,838	
BLACKSTONE AVE	MAPLE AVE	ELM AVE	48	105,878	
ELM AVE	SUNSET AVE	BLACKSTONE AVE	49	62,838	
NEWBERRY AVE	END	SHAWMUT AVE	47	60,750	*
BEACH AVE	END	SHAWMUT AVE	48	81,750	*
			TOTAL	930,423	
			FY2014-15 (Engineering)	70,000	
			FY2015-16 (Construction)	930,000	

* Included in the proposed FY2015-16 programs are funds for the resurfacing of Newberry and Beach Avenues. Staff has also identified the water main on these two streets as needing replacement due to periodic water main breaks, and as such has proposed these water main segments for replacement to coincide with the resurfacing program. These water mains were installed in the 1930's. Given the low traffic volumes on these streets, staff intends to further assess the condition of these streets and water mains over the next year. Staff proposes keeping the budget as is while cost estimates and alternate construction methods such as street patching and water main lining are assessed. Inclusion of these streets and water mains in future budget years would then be revisited during next year's Capital Improvement Program for final direction.

In June of 2012 the Village contracted with Baxter and Woodman for the completion of the detailed engineering and design for the FY2013-2014 Neighborhood Street Resurfacing Program (\$28,000). Construction for these street segments are budgeted for in FY 2013-14 in the amount of \$378,000.

The anticipated schedule for the project is as follows:

<u>Action</u>	<u>Completion Date</u>
Bid and Award Construction Contract	Spring, 2013
Construction Completion	Fall, 2013

Staff recommends completing the engineering work for the resurfacing program in the fiscal year before construction so that work can start on May 1 at the beginning of the construction season.

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Therefore engineering for the FY2015-16 street resurfacing program is budgeted in FY2014-15 in the amount of \$70,000 with construction budgeted in FY2015-16 in the amount of \$930,000.

In FY2016-17, staff recommends that the street condition survey be updated to reflect changed conditions. The FY2016-17 budget includes \$20,000 for this work. Please note that all funding for the neighborhood street improvement projects is provided by Motor Fuel Tax funds.

The following is a summary of the proposed budget allocations for the neighborhood street resurfacing project:

FY2011-12 - Comprehensive Street Condition Survey - \$28,500
FY2012-13 - Design Engineering Costs - \$28,000
FY2013-14 – Estimated Construction and Construction Engineering - \$378,000
FY2014-15 – Estimated Design Engineering - \$70,000
FY2015-16 - Estimated Construction and Construction Engineering - \$930,000
FY2016-17 - Street Condition Survey Update - \$20,000

VILLAGE HALL ROOF

A visual inspection of the Village Hall roof was performed in the fall of 2012. The inspection was performed to assess the roof's overall condition in order to determine its remaining useful life and to develop an estimated cost for replacement.

The inspection determined the roof has reached the end of its useful life and needs to be replaced. The roof is 30+ years old and the shingles are severely deteriorated and are corroding due to the extended exposure to UV rays, weather/water erosion and the thermal change of seasons. Recently leaks have also developed and been repaired in various locations.

An inspection report was completed. The recommended scope of work includes removing the roof system down to the existing deck, inspecting and replacing damaged decking, and installing asphalt organic base felt, ice and water shields and architectural shingles. The recommendations identified in the report for replacement of the roof are estimated to cost \$80,000.

VILLAGE FOUNTAIN

In the summer of 2012, the water fountain located in the plaza area to the south of the Village Hall was severely damaged and subsequently removed from the plaza. A claim for damage to Village property was filed with the Village's insurance carrier after the incident. The Village was reimbursed in the approximate amount of \$30,000, which represents the estimated value for replacing the fountain as it was.

Fountain repairs have not been initiated as staff has been investigating alternative fountain designs in an effort improve pedestrian interaction with the fountain and to re-create a more unique fountain feature. Several design options were evaluated and provided to the Village Board for consideration.

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In deference to the cost-containment plan, staff recommends re-installing the same fountain feature that was destroyed. Staff also recommends consideration be given to upgrading the fountain with a wrought-iron material. Staff is in the process of obtaining more refined cost estimates and samples for the wrought-iron option.

COSSITT AVENUE RESURFACING PROJECT

Cossitt Avenue from Gilbert Avenue to Brainard Avenue is in need of repair due to deterioration of the roadway. Previous estimates provided for the complete reconstruction of the roadway. Baxter & Woodman reviewed the condition of the roadway and recommended a combination of patching and resurfacing to repair the roadway, which lowered the costs of the project. Based on this assessment, the Village applied for and received funding through the Central Council of Mayors for the project. The funding has been approved as follows:

	Local 30%	Federal 70%	Total	Village FY2013-14	Village FY2015-16
Engineering Phase 2 (Federal FY14)	9,150	21,350	30,500	30,500	0
Construction Engineering Phase 3 (Federal FY 15)	11,363	26,512	37,875	0	37,875
Construction	113,625	265,124	378,749	0	113,625
Totals	134,138	312,986	447,124	30,500	151,500

Please note the entire costs for engineering are budgeted as a Village expense since these are reimbursable through the federal grant. Construction costs are paid directly by IDOT.

The proposed schedule for the project is as follows:

Design Engineering – Start: October 1, 2013
 Complete: May 1, 2014

Construction - Start: May 1, 2015
 Complete: September 30, 2015

As part of the Cossitt Avenue Resurfacing Program staff also recommends replacement of the water main on Cossitt Avenue from Gilbert Avenue to Leitch Avenue. This main was installed in 1925 and has experienced a number of recent water main breaks. The remaining water main on Cossitt Avenue from Leitch Avenue to Park Road was replaced in 1995. Funds in the Water Fund have been allocated for the engineering and construction associated with the water main.

LOT 13

Lot 13 is a commuter parking lot with 158 parking spaces located south of the BNSF Railroad

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just west of Brainard Avenue. The lot is mainly utilized by commuters accessing the Stone Avenue Train station. Monthly parking decals are sold to commuters with a valid train pass. The lot is also sometimes used by the Lyons Township High School (LTHS) for special events as the north campus is directly adjacent to Lot 13. The BNSF railroad owns the property and parking lot. Since the 1970's, the Village has had an agreement with the BNSF railroad for the use of the lot for commuter parking purposes whereby the Village collects revenues from commuters parking in the lot and in return the Village maintains the lot. The maintenance includes snow and ice control, patching, and reconstruction as required.

Currently there are two access points to this lot on the west side of Brainard Avenue immediately south of the BNSF railroad. The existing lot consists of an asphalt surface with concrete curbs outlining the lot and internal aisles. The existing surface is in poor condition and is need of repair.

The FY2011-12 budget identified \$315,000 in FY2012-13 for repairs to Lot 13. The budget was based on resurfacing the lot similar in scope to the recently completed Lot 2 resurfacing project. In the fall of 2011, a call for projects was announced by the Illinois Environmental Protection Agency (IEPA) to fund green infrastructure projects through the Illinois Green Infrastructure Grant Program. The IEPA's definition for green infrastructure means "any storm water management practice with the goal of preserving or restoring natural hydrology." Village staff applied for this grant to replace the impervious asphalt surface with permeable pavers in order to reduce the amount of storm water entering the Village's combined sewer system. By utilizing the permeable pavers, the green infrastructure project would seek to improve the water quality of the local waterway systems while at the same time addressing local flooding concerns in the area. This project would also serve as a demonstration project to the community of the benefits of green infrastructure, and the Village's commitment to the environment.

In the grant application, the proposed funding in the budget for the resurfacing project was leveraged as a match for the grant funding. In the Spring of 2012 the Village was notified that it was awarded a green infrastructure grant in the amount of \$453,840 for the project.

The Village also worked with the Regional Transportation Authority, Chicago Metropolitan Agency for Planning, Metra, the Active Transportation Alliance, the Illinois Commerce Commission, and the Burlington Northern Santa Fe Railroad towards a comprehensive pedestrian access and safety plan for the Stone Avenue Train Station area. The plan includes recommendations for improvements to the rail crossing, accessible routes, parking, and crosswalks in the area surrounding the Stone Avenue Train Station. This study was recently completed with several recommendations associated with the planned improvements to Lot 13. The recommendations in the report associated with Lot 13 include improving the pedestrian crosswalks across Brainard Avenue, channelizing pedestrian movements, consolidating entrances to Lot 13, realigning the entrance to Lot 13 with the intersection of Brainard Avenue and Burlington Avenue, and increasing the number of handicap parking stalls. These recommendations are being considered as part of the engineering design services.

The Village entered into a contact with the engineering firm Baxter & Woodman, Inc. to develop

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detailed engineering plans and specifications for repairs to this lot. To date, Baxter & Woodman has completed the topographic survey of the project area and has prepared several design alternatives for the parking lot configuration. As part of the geotechnical investigation, soil borings were performed and revealed that the existing parking lot was constructed upon fill placed directly over topsoil. Due to the high organic content of the topsoil, the existing subgrade did not provide a stable platform upon which to construct the permeable paver parking lot. Unfortunately, the additional removal required for construction was not anticipated since subsurface soil conditions were not known at the time preliminary estimates were prepared for the project. The Village applied for and received additional funding from the IEPA's Green Infrastructure Grant Program in the amount of \$169,187 for the additional soil remediation costs.

The next tasks to be completed include finalizing the parking lot configuration, and submitting drawings to MWRDGC for approval. As recommended in the RTA study, staff worked with LTHS to assess opportunities for consolidating entrances between Lot 13 and the existing LTHS access road. Based on a preliminary assessment, the entrances for these two access drives will be combined in order to better align with Burlington Avenue, however the LTHS access road is planned to remain in its current location.

Funding for the resurfacing of Lot 13 is split between several fiscal years. Specifically \$30,000 was budgeted for engineering in FY2012-13 and \$285,000 was budgeted for construction in FY2013-14. The following chart details the budget for the project based on the funding allocated in the parking fund and the green infrastructure award, and estimated construction costs:

Lot 13 Reconstruction Project	BUDGET
Expenses	
Engineering	
Phase II – Development of Plans and Specifications	70,672
Phase III – Construction Engineering	52,108
Subtotal	122,780
Construction*	
Reimbursable Grant Expenses	749,079
Lighting and Other Ineligible Grant Expenses	71,000
Subtotal	820,079
Total	942,859
Revenues	
Parking Fund – FY2012-13	30,000
Parking Fund – FY2013-14	285,000
IEPA Green Infrastructure Grant	623,027
Total	938,027

*Estimated

As the green infrastructure grant is a reimbursable grant, the Village will need to pay for the full

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costs of the project and then request reimbursement from the State. A budget amendment will be necessary for FY2012-13 since the full cost of the engineering was not budgeted for the project. The net cost to the Village remains as budgeted once the grant reimbursements are applied. The FY2013-14 includes both the estimated construction costs, construction engineering and grant reimbursements.

Construction is planned to occur during the summer of 2013 when school at LTHS is not in session. During construction, decal holders for Lot 13 will be redirected to park in other zone parking areas in the Stone Avenue Train Station area.

Finally, the BNSF Railroad, as owner of the property, has provided the Village with written approval to reconstruct the lot as described above.

FUTURE OUTLOOK

This proposed plan for capital improvements demonstrates the continued emphasis on maintenance and replacement of the Village's infrastructure. While these projects provide a realistic plan for infrastructure improvements, they also provide flexibility to reschedule the specific timing of projects should the Village's priorities change over the years. Project timing and budgets are based on the best information available at this time and may need to be adjusted as project scope, engineering, construction and material costs are reviewed and reevaluated annually.

The Capital Project Fund reflects a small surplus fund balance at the end of this five-year budget period ending in FY2017-18 which demonstrates the ability to fund these identified and proposed future projects over the long term. Conversely, it also reflects the impact of fiscal retrenchment over that same period of time. The "silver-lining" summary conclusion here is that the Village's ability to effectively plan over the longer term, coupled with its underlying financial strength presents the treasured opportunity of having ample time to thoughtfully evaluate the competing interests of sensitivity to tax payers against sufficiently funding capital projects, a strategic spending priority for the Village Board.

In addition to the above projects, we have several "previously identified, but not yet budgeted" capital projects which are being considered or developed for future fiscal years. Below we present a description of those projects. They will be scheduled as project scope and cost estimates are refined, and funding becomes available. Finally, we will continue to aggressively seek out and apply for grant funds for these projects as evidenced earlier in this report.

La Grange Road Street Light Replacement – We propose to replace the overhead streetlights on La Grange Road between Brewster Avenue and 47th Street with ornamental poles consistent with the design of our current streetscape furnishings. The current system was installed over 50 years ago. Although this system is functioning, the poles are showing signs of severe cracking and deterioration. Replacement parts and poles are becoming more difficult to locate. We estimate the current cost of this project to be approximately \$1,000,000.

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At this time, we are specifically examining project eligibility to fund this improvement and its companion piece below through energy efficiency grant opportunities.

Burlington Avenue Streetlights – Ogden to Brainard - We propose to replace the overhead streetlights on Burlington Avenue between Ogden Avenue and Brainard Avenue as a companion piece to the La Grange Road Street Light Replacement project. As these are the same light standards used on La Grange Road, the same issues of deterioration and diminishing replacement inventory apply. We estimate the cost of this work in this project corridor to be \$500,000.

La Grange Road and Ogden Avenue Intersection Improvements

The Village has met with the IDOT to discuss pedestrian safety and traffic management solutions at the intersection of Ogden Avenue and La Grange Road. While it is our objective to have most of the improvements funded by private development, the overall intersection requires attention. As previously discussed in the Status Report, we plan to work with IDOT on the improvements identified in their capital plan for the northeast corner of La Grange Road and Ogden Avenue.

Ogden & East Avenue Intersection Improvements – A significant amount of trucks utilize Ogden Avenue and East Avenue to access the quarry to the south. The current geometry at the southwest corner of Ogden and East Avenues does not facilitate efficient truck movement at the intersection. Specifically, trucks attempting to make a right hand turn from eastbound Ogden Avenue to southbound East Avenue jump the curb, and on many occasions damage traffic signal equipment at this corner. We propose to make improvements to this intersection as either a standalone project or as part of future improvements to the adjacent parcel located at this corner.

CREATE — CREATE (Chicago Region Environmental and Transportation Efficiency) is a major public-private partnership established in 2003 to improve freight rail traffic in the Chicago metropolitan area. Architects of the plan include the six major Class I railroads, the City of Chicago and IDOT. Among the many infrastructure improvements being considered, the plan identifies 25 new grade separations, including the IHB crossing at 47th Street and East Avenue.

This is a long term project; anywhere between five to ten years. We should be aware of this regional transportation project, and its potential impacts and benefits to La Grange. For example, this project would provide roadway and related public improvements specific to grade separation and it may facilitate the relocation of gravel truck traffic off of La Grange Road and 47th Street. As discussed in the Status Report, IDOT recently awarded a contract for Phase I Engineering services for improvements to the intersection of 47th Street and East Avenue, which includes evaluating a highway/railroad grade separation as part of the project. This improvement is not currently included in IDOT's five year highway program for construction. However, this improvement is on the list of projects to mitigate impacts from the closure of Joliet Road, using settlement funds. Looking ahead, we will need to allocate funds for engineering at some point to provide input on design.

Wayfinding Signage – Phase III — The Village completed Phases I and II of the wayfinding signage project in FY 2007-08. Phases I and II included parking lot directional and identification signs within the Central Business District (CBD). Phase III of the project would involve Village

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entrance signs, trailblazing signage to the CBD and other destinations, and gateway treatments/monuments for the CBD and potentially other shopping areas. At this time, we are not recommending funding Phase III of this project which has an estimated cost of \$350,000.

La Grange Road Train Station – As time, budgets and other priorities permit, we will continue to look at ways to upgrade the interior of the La Grange Road Train Station. We are also interested in enhancing bicycle parking opportunities at the station. Finally, we are also looking to improve vehicle movement and parking at the La Grange Road train station along Hillgrove Avenue.

Hillgrove Avenue – Utility System Relocation Project — This project involves the burial of aerial utilities to underground locations on Hillgrove Avenue from Brainard to Gilbert. The project will remove the unsightly cables and poles which detract from our beautification efforts in the West End Business District. Secondly, the Village will benefit from approximately 9 additional parking spaces in areas currently obstructed by the poles. Removal of the poles will also facilitate maintenance activities. The project is estimated to cost approximately \$500,000.

Police / Fire Department Roof Repair – The Police / Fire Department roof is nearing the end of its useful life and is showing signs of deterioration. The roof is a flat roof that consists of a built up membrane with insulation. Recently several leaks have developed and have been repaired. Over the next year the staff will be completing a detailed inspection of the roof and will be providing recommendations for future repairs. Costs for the project are unknown at this time.

Public Works Facility – The existing Public Works facility is a collection of various structures that have been constructed over many years. Several of the structures / buildings are estimated to be a hundred years old. In order to gain a better understanding of the current condition and estimated remaining useful life of the facility staff has proposed completing a facilities analysis. This study is budgeted in the miscellaneous engineering line item. Once this facilities analysis is complete, more detailed recommendations will be provided to the Village Board. Costs for any improvements are unknown at this time.

Police / Fire Parking Lot Repair – The parking lot behind the Police / Fire facility is nearing the end of its useful life. Staff anticipates that resurfacing of the lot will be required in the next 2-5 years. Over the next year, staff will evaluate the remaining useful life of the lot, estimate the cost and make recommendations for repairs as needed.

WATER FUND

VILLAGE OF LA GRANGE
WATER FUND
WORKING CAPITAL SUMMARY THROUGH APRIL 30, 2018

Working Capital, April 30, 2010			1,235,721
Revenues	2010-11	3,225,249	
Expenses	2010-11	<u>(3,662,491)</u>	<u>(437,242)</u>
Working Capital, April 30, 2011			798,479
Revenues	2011-12	3,420,332	
Expenses	2011-12	<u>(3,219,147)</u>	<u>201,185</u>
Working Capital, April 30, 2012			999,664
Revenues	2012-13	6,285,211	
Expenses	2012-13	<u>(5,214,819)</u>	<u>1,070,391</u>
Working Capital, April 30, 2013			2,070,055
Revenues	2013-14	4,452,100	
Expenses	2013-14	<u>(4,914,481)</u>	<u>(462,381)</u>
Working Capital, April 30, 2014			1,607,675
Revenues	2014-15	4,787,100	
Expenses	2014-15	<u>(4,458,151)</u>	<u>328,949</u>
Working Capital, April 30, 2015			1,936,624
Revenues	2015-16	5,157,100	
Expenses	2015-16	<u>(5,455,145)</u>	<u>(298,045)</u>
Working Capital, April 30, 2016			1,638,579
Revenues	2016-17	5,162,100	
Expenses	2016-17	<u>(5,063,726)</u>	<u>98,374</u>
Working Capital, April 30, 2017			1,736,953
Revenues	2017-18	5,167,100	
Expenses	2017-18	<u>(5,124,716)</u>	<u>42,384</u>
Working Capital, April 30, 2018			<u><u>1,779,337</u></u>

WATER FUND

ACCT. NO.	ACCOUNT DESCRIPTION	2010-11 ACTUAL	2011-12 ACTUAL	2012-13 BUDGET	2012-13 EST. ACT	2013-14 BUDGET	2014-15 BUDGET	2015-16 BUDGET	2016-17 BUDGET	2017-18 BUDGET
5000	REVENUES									
	<u>CHARGES FOR SERVICES</u>									
5200	WATER SALES	3,130,783	3,321,609	4,053,750	4,100,000	4,350,000	4,675,000	5,025,000	5,025,000	5,025,000
5201	WATER TAPS	33,011	38,940	20,000	40,000	35,000	35,000	35,000	35,000	35,000
5203	FIRE LINES	11,925	12,370	11,000	12,000	12,000	12,000	12,000	12,000	12,000
5209	PENALTY	39,365	42,869	37,000	45,000	45,000	45,000	45,000	45,000	45,000
	SUBTOTAL	3,215,084	3,415,788	4,121,750	4,197,000	4,442,000	4,767,000	5,117,000	5,117,000	5,117,000
	<u>INTEREST INCOME</u>									
5500	INVESTMENT INTEREST	8,729	1,628	4,000	4,000	10,000	20,000	40,000	45,000	50,000
	SUBTOTAL	8,729	1,628	4,000	4,000	10,000	20,000	40,000	45,000	50,000
	<u>FINANCING REVENUES</u>									
5700	BOND PROCEEDS	-	-	2,000,000	2,080,000	-	-	-	-	-
	SUBTOTAL	-	-	2,000,000	2,080,000	-	-	-	-	-
	<u>MISCELLANEOUS REVENUES</u>									
5899	MISCELLANEOUS	1,436	2,916	100	4,211	100	100	100	100	100
	SUBTOTAL	1,436	2,916	100	4,211	100	100	100	100	100
	TOTAL REVENUES	3,225,249	3,420,332	6,125,850	6,285,211	4,452,100	4,787,100	5,157,100	5,162,100	5,167,100

BUD13\14WTRBUD
1/22/2013

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WATER FUND

ACCT. NO.	ACCOUNT DESCRIPTION	2010-11 ACTUAL	2011-12 ACTUAL	2012-13 BUDGET	2012-13 EST. ACT	2013-14 BUDGET	2014-15 BUDGET	2015-16 BUDGET	2016-17 BUDGET	2017-18 BUDGET
5000	EXPENDITURES	PERSONNEL								
6000	SALARIES - FULL-TIME	635,976	661,468	701,868	698,056	722,458	752,621	782,432	813,604	846,206
	SALARY ALLOCATIONS									
	Salaries - F/T - Admin	104,023	102,937	106,670	106,872	111,926	115,870	120,162	124,638	129,306
	Salaries - F/T - Finance	110,208	106,559	121,018	122,131	128,055	130,914	134,910	139,043	143,319
	Salaries - F/T - DPW	(78,209)	(76,694)	(66,305)	(68,122)	(71,834)	(72,384)	(73,764)	(75,153)	(76,550)
	Salaries - F/T - Sewer	(18,592)	(17,877)	(18,399)	(18,535)	(19,721)	(20,056)	(20,558)	(21,072)	(21,599)
		753,406	776,393	844,852	840,403	870,884	906,966	943,182	981,060	1,020,684
6001	SALARIES - PART-TIME	21,833	17,354	8,500	9,000	9,000	9,500	10,000	10,500	11,000
	Salaries - P/T - Finance	19,526	23,131	-	-	-	-	-	-	-
	Salaries - President	1,980	1,980	1,980	1,980	1,980	1,980	1,980	1,980	1,980
		43,339	42,465	10,480	10,980	10,980	11,480	11,980	12,480	12,980
6002	SALARIES - OVERTIME	49,991	29,478	31,500	31,500	33,075	34,729	36,465	38,288	40,203
6004	IMRF CONTRIBUTIONS	110,803	108,245	113,926	108,467	126,554	131,837	137,151	142,709	148,524
6005	FICA/MEDICARE	62,315	62,273	67,691	67,389	69,841	72,766	75,708	78,783	81,999
6009	IRMA CONTRIB / CLAIMS	83,491	86,473	95,531	93,491	102,272	102,272	102,272	102,272	102,272
6010	HEALTH INSURANCE	116,114	125,613	131,089	139,955	150,360	161,598	173,677	186,661	200,617
6020	TRAINING & MEMBERSHIP	1,681	2,361	3,200	3,200	3,200	3,200	3,200	3,200	3,200
6021	UNIFORMS	4,848	4,274	5,400	4,400	4,800	4,800	4,800	4,800	4,800
	SUBTOTAL	1,225,988	1,237,575	1,303,669	1,317,872	1,371,967	1,434,961	1,493,993	1,556,068	1,615,278
	SUPPLIES & MATERIALS									
6100	SUPPLIES	2,788	1,674	3,300	3,300	3,300	3,300	3,300	3,300	3,300
6101	PRINTING & POSTAGE	14,007	14,624	15,000	21,201	15,000	15,000	15,000	15,000	15,000
6102	GAS & OIL	9,586	14,229	13,200	15,738	16,000	16,000	16,000	16,000	16,000
	SUBTOTAL	26,381	30,527	31,500	40,239	34,300	34,300	34,300	34,300	34,300
	OPERATIONS & CONTRACTUAL									
6210	TELEPHONE	9,935	9,551	10,200	10,094	10,000	10,000	10,000	10,000	10,000
6211	ELECTRIC FEES	47,685	35,653	40,000	37,230	40,000	40,000	40,000	40,000	40,000
6220	MAINTENANCE - WATER	100,992	94,844	90,000	100,000	100,000	100,000	100,000	100,000	100,000
6230	PROFESSIONAL SERVICES	35,207	27,032	32,000	32,000	28,000	63,000	63,000	63,000	63,000
6232	AUDITING	9,980	10,126	10,546	10,546	11,755	11,195	12,658	13,038	13,418
6290	WATER PURCHASES-McCOOK	1,660,333	1,666,836	2,120,000	2,150,000	2,275,000	2,500,000	2,750,000	2,750,000	2,750,000
6291	LEAK STUDY	-	9,115	13,000	13,000	13,000	13,000	13,000	13,000	13,000
	SUBTOTAL	1,864,132	1,853,157	2,315,746	2,352,870	2,477,755	2,737,195	2,988,658	2,989,038	2,989,418

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WATER FUND

ACCT. NO.	ACCOUNT DESCRIPTION	2010-11 ACTUAL	2011-12 ACTUAL	2012-13 BUDGET	2012-13 EST. ACT	2013-14 BUDGET	2014-15 BUDGET	2015-16 BUDGET	2016-17 BUDGET	2017-18 BUDGET
<u>CAPITAL OUTLAY</u>										
6600	NEW EQUIPMENT	5,909	6,895	7,000	7,000	5,000	5,000	5,000	5,000	5,000
6605	COMPUTER EQUIPMENT	890	400	1,000	1,000	1,000	1,000	1,000	1,000	1,000
6660	EQUIPMENT - RESERVE (ERF)	45,055	45,055	43,529	43,529	45,329	46,464	46,464	47,589	47,589
6691	MAINS / IMPROVEMENTS	442,420	5,122	2,250,000	1,395,776	795,000	20,000	700,000	250,000	250,000
6692	METERS	20,673	17,011	20,000	20,000	20,000	20,000	20,000	20,000	20,000
6693	HYDRANT & VALVES	25,902	17,410	20,000	19,612	20,000	20,000	20,000	20,000	20,000
	SUBTOTAL	540,849	91,893	2,341,529	1,486,917	886,329	112,464	792,464	343,589	343,589
<u>FINANCING EXPENSES</u>										
6700	BOND PRINCIPAL	-	-	155,000	-	85,000	85,000	90,000	90,000	90,000
6701	BOND INTEREST	-	-	-	8,421	45,930	44,230	42,530	40,730	38,930
	SUBTOTAL	-	-	155,000	8,421	130,930	129,230	132,530	130,730	128,930
<u>MISCELLANEOUS EXPENSES</u>										
6899	MISC/LAB EXPENSES	5,141	5,995	10,000	8,500	13,200	10,000	13,200	10,000	13,200
	SUBTOTAL	5,141	5,995	10,000	8,500	13,200	10,000	13,200	10,000	13,200
	TOTAL FOR DEPARTMENT	3,662,491	3,219,147	6,157,444	5,214,819	4,914,481	4,458,151	5,455,145	5,063,726	5,124,716

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VILLAGE OF LA GRANGE
Department of Public Works

EXECUTIVE COMMITTEE REPORT

TO: Village President, Village Board of Trustees
Village Clerk and Village Attorney

FROM: Robert Pilipiszyn, Village Manager
Ryan Gillingham, Director of Public Works
Lou Cipparrone, Finance Director

DATE: January 28, 2013

RE: **WATER FUND – STATUS REPORT FY 2012-13**

SALARIES – FULL-TIME & PART-TIME

FY 2012-13 full-time salaries are slightly under budget due to the retirement of a Water Fund Crew Leader. This vacant position was subsequently filled by a highly qualified internal candidate.

FY 2012-13 part-time salaries reflect the elimination of the part-time water meter reader position and the part-time water billing clerk position as part of the restructuring efforts within the Public Works and Finance Departments. The responsibilities of these positions have been assigned to full-time personnel within the General and Water Funds, the impact of which are budget neutral in the Water Fund and annual savings of approximately \$40,000 in the General Fund.

PROFESSIONAL SERVICES

Expenses in this line item include emergency locates, outsourcing of printing and mailing of monthly water bills (which includes payments via the internet), engineering service for the water system including the Pump Station, and professional services for the Backflow Prevention Program. Beginning in FY2012-13 this line item also includes \$6,000 for miscellaneous engineering for water related issues.

Water Bill Payment On-Line

In order to provide additional options to Village residents for paying their water bill, in FY2012-13 staff upgraded the existing accounting software to allow residents to pay their water bill on-line. Customers can now pay their bill either through the mail, in person, automatic withdrawal from a checking account or on-line. There is a one-time cost to purchase the software, which is reflected in FY2012-13, in the amount of \$4,000 and a yearly maintenance fee thereafter of

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\$500. Customers are required to pay a \$1 transaction fee for this service, which is assessed at the time of payment by the software company.

Backflow Prevention Program

As a potable water supplier, the IEPA requires that the Village have a backflow prevention program in place that monitors the testing of backflow prevention devices on private systems. Backflow prevention devices are required in certain applications such as fire sprinkler systems, irrigation systems, and restaurants in order to prevent the potential for contaminants to enter the Village's water system through private service lines. These lines must be inspected on a yearly basis and the Village is responsible for tracking and reporting the testing of these private systems. The Village is not responsible for performing the actual tests.

In order to improve the administration of our backflow prevention program, an outside firm was hired to administer the program. The firm is responsible for sending out notifications of inspection due dates and tracking devices that require inspection. Additionally, the firm also performs inspections of facilities for compliance with State laws regarding backflow prevention. A fee of \$8.95 is assessed to property owners in order to enter the information into the database. The costs incurred by the Village for the program are for inspections of facilities as requested by Village staff. In FY2012-13 the contractor completed the inspection of all commercial facilities for compliance with State laws regarding backflow prevention. A total of 178 properties were inspected. The Village's database of backflow prevention devices includes 788 devices that are tracked for yearly inspection.

LEAK SURVEY

Each year the Village performs a leak survey with electronic equipment in order to detect possible water leakage on hydrants, valves, mains and services. This program helps the Village maintain its water accountability (pumped vs. billed ratio) within the water distribution system.

In FY2011-12 a total of 30 leaks were discovered in the 158,400 lineal feet of water main surveyed. (17 hydrant leaks, 5 main leaks, 6 service leaks and 2 valve leaks.) Of note was a large leak discovered on Gilbert Avenue and 50th Street that was draining directly into an adjacent sewer underground. The leak was subsequently repaired. The FY2012-13 leak survey is planned to be completed this spring.

This pro-active approach has resulted in some increase in water accountability. Unfortunately, these surveys are snapshots of the system at the time they are conducted and cannot effectively anticipate the periodic main breaks of consequence which tend to occur during freeze/thaw cycles. We propose to continue with the annual leak study in order to improve accountability and detect leaks whenever possible. We will also explore the feasibility of utilizing new technologies in an effort to improve leak detection.

WATER MAINS

2-13.5

Completed as part of the Bluff Avenue Project in FY 2010-11 was the replacement of aging water main throughout the Stage 3 corridor on Bluff Avenue from 47th Street to Cossitt Avenue. Funds were budgeted within the Water Fund in the amount of \$442,000 for this project as water main replacement is not eligible for STP funding. This water main work was completed in 2012.

Water Meter Replacement Program

The Village supplies potable water to residents through a network of pipes, pump stations, and storage reservoirs. Water usage is measured with water meters on the service lines located at each customer's property. There are approximately 4,600 meters throughout the Village for residential, commercial, and industrial customers. The last significant meter change out program was performed over twenty years ago between 1987 and 1990.

As water meters age, their accuracy decreases as the moving parts inside of the meters become worn. This decrease in accuracy has a direct, negative impact on the Village's water accountability because a worn meter will typically under-measure the water flowing through it, and thus the customer is under-billed for the water that the customer is using. This water loss through the meter represents one component of unaccounted for water loss in the Village's system. The total unaccounted for water in the Village is calculated as the difference in gallons between the amount of water received at the East Avenue Pumping Station and the total amount of water delivered to customers as recorded at the individual customer water meters. In addition to inaccurate meters, other sources of water loss in the system include water main breaks, hydrant flushing, and leaking water mains. The percentage of unaccounted for water over the past five years has ranged between 24-29%.

Staff has implemented various programs to reduce the unaccounted for water loss including leak studies and a large meter testing program. Unfortunately, these efforts to reduce the unaccounted for water did not reduce the overall water loss. Staff then focused on looking at individual water meters and implemented various tests to determine the accuracy of the existing water meters within the system. These tests showed that some of the meters tested were not operating properly, which is consistent with the expected loss in accuracy given the age of the meters.

Additionally external assessments of the Village's accountability by the Illinois Department of Natural Resources and the Village's auditors, Sikich, have determined that the Village's water loss exceeds industry standards for overall system water loss. From the analysis, staff recommended that the individual customer water meters be replaced.

After a thorough Board review and discussion, funding for the project was approved as part of the 2012 Water Fund bond issue (reallocated to FY2012-13.) A contract was approved with HD Waterworks to replace all of the Village water meters. The estimated cost for the project is \$1.5 million and is expected to be substantially complete in FY2012-13.

Water Pump Station Improvements

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The main component of the Village's distribution system is the East Avenue Pump Station located at the intersection of East Avenue and Plainfield Road. At the station water is received from the Village of McCook, re-chlorinated, and redistributed through a network of pipes to individual properties. The existing 1.75 million gallon reservoir and pump station facility at East Avenue was constructed in the early 1980's. In 1993 the pumping capacity of the original station was augmented with the construction of a prefabricated below grade pumping station.

Since many of the current systems at the pump station are nearing the end of their useful life, a preliminary engineering study was completed by Baxter & Woodman in 2010 to assess the condition of this critical piece of infrastructure and its components. The goal of this study was to evaluate the existing equipment, identify equipment that should be scheduled for replacement, assess new technologies that could increase efficiency thus decreasing operating and maintenance costs, and review operations to identify areas for improvement. The study determined that in fact some equipment has reached the end of its useful and should be replaced as replacement parts are no longer available. Additionally, water pumping station technology has changed significantly over the last thirty years and the implementation of newer technology would decrease the costs of operating the station over time.

From the preliminary engineering study, the scope of work for the project includes the following recommended improvements:

1. Replace existing Supervisory Controls and Data Acquisition (SCADA) equipment with new computer based technology that will allow for remote operations, automatic report writing, enhanced controls, and improved communications and alarm notifications.
2. Replace existing generator, automatic transfer switch and motor controls. Install diesel storage tank for generator that will allow for continuous operation of pump station in the event of an emergency.
3. Replace existing building interior lights.
4. Replace roof.
5. Replace existing motor control center including new motor starters, circuit breakers, surge protection, lighting panel, transformer and connection of all power and control wiring.
6. Replace communications infrastructure and power for access control, security, video surveillance, instrumentation and control systems.
7. Perform structural inspection of the existing ground storage tank given adjacency of quarry and prepare a summary report of the findings. The water storage tank was last inspected in the late 1990's.
8. Inspect three vertical turbine pumps and associated steel casings by removing pumps and

videotaping conditions.

9. Update the existing Emergency Response Plan and Vulnerability Study.
10. Install new dehumidification system for the Main East Avenue Pumping Station in order to reduce maintenance costs due to corrosion associated with condensation on equipment.
11. Assess existing chlorine injection system and potentially modify chlorine system from a gas to liquid system depending on assessment.
12. Upgrade pump control valves to improve operations and reduce electrical costs.
13. Install new isolation valve exterior to the station to provide the ability for redundant effluent water lines from the station for improved operations in the event of an emergency.

A contract with Baxter & Woodman was approved in December 2012 in the amount of \$125,776 for detailed engineering design and inspection services for the identified improvements to the East Avenue Pumping Station. The engineering work is scheduled to be completed in June 2013 with construction starting in the Fall of 2013 and ending in the Spring of 2014.

The funds for the detailed engineering and inspections are included as part of the recent water bond issue and in the FY2012-13 budget. Specifically, the total amount of funds available for both engineering and construction include \$500,000 from the 2012 Water Fund bond issue (reallocated to FY2013-14) and \$250,000 in the Water Fund Improvements line item in the FY2012-13 budget.

2-13-8

VILLAGE OF LA GRANGE
Department of Public Works

EXECUTIVE COMMITTEE REPORT

TO: Village President, Village Board of Trustees
Village Clerk and Village Attorney

FROM: Robert Pilipiszyn, Village Manager
Ryan Gillingham, Director of Public Works
Lou Cipparrone, Finance Director

DATE: January 28, 2013

RE: **WATER FUND -- STAFF RECOMMENDATIONS FY 2013-14**

WATER RATE INCREASE

The Water Fund was established as an enterprise fund to finance the cost of operating, maintaining and replacing the Village's water distribution system. Our goal is to maintain Water Fund reserves at about 50% of operating expenses. The Water Fund reserve balance as of April 30, 2012 is approximately 31% percent of annual operating expenses.

It has been a longstanding Village policy to "pass on" water rate increases from the Village of McCook which supplies Lake Michigan water to the Village. McCook receives Lake Michigan water directly from the City of Chicago. The City of Chicago announced water rate increases in the amounts of 25%, 15%, 15% and 15% over four years starting on January 1, 2012. Staff continues to work with the West Central Municipal Conference to advocate for lowering these planned increases from Chicago. Staff has assumed for budgeting purposes that these increases will be implemented as presented by the City of Chicago.

In order for the Water Fund to continue to 1) fund ongoing operations including the water rate increase from the City of Chicago, 2) fund the water meter replacement program/pumping station bonds 3) remain active with the replacement of water mains as part of the neighborhood street replacement program, 4) replace mains where know deficiencies exist within the system and 5) rebuild/maintain reserves; water rate increases in the amount of 15%, 7.5%, 7.5% and 7.5% are included in the proposed budget over four fiscal years starting May 1, 2012.

Please note the Village rate increases are significantly less than the City of Chicago rate increases as they are primarily applied to the cost of the water purchased in the Water Fund, which is just one component of the total expenses for providing water to residents.

It is estimated that the initial 15% increase will cost homeowners approximately \$100 annually, with the three subsequent 7.5% increases costing homeowners approximately \$65 each year. We will reevaluate the need for subsequent increases on an annual basis during budget preparation in

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future years.

Please note the water rate increases do not take into account any increase in revenues due to improved water accuracy which we expect to achieve as a result of the water meter replacement project. Should revenues increase due to improved meter accuracy, future water rate increases as currently planned, could be reduced or eliminated to reflect the additional revenues. Water rates will be reviewed annually with this key objective in mind.

While we have developed this plan based on the proposed City of Chicago rate increases, we will evaluate future Village water rate increases, one year at a time, pending actual rate increases from McCook and Chicago and results of the water meter replacement program.

FY 2012-13, revenues from Water Sales are estimated to be over budget due to above average water usage resulting from the dry summer conditions. Budgeted revenues are based on an average annual consumption with minor variations expected depending on spring/summer weather conditions. The higher than normal usage does not reflect an increase in water accountability due to the meter replacement project.

Sewer service fees are based on the cubic feet of water used by a property owner multiplied by a separate sewer rate. Therefore, an increase in the water rate does not affect sewer revenues.

PROFESSIONAL SERVICES

Expenses in this line item include emergency locates, outsourcing of printing and mailing of monthly water bills (which includes payments via the internet), engineering service for the water system including the Pump Station, and professional services for the Backflow Prevention Program. Beginning in FY2012-13 this line item also includes \$6,000 for miscellaneous engineering for water related issues.

Geographic Information System (GIS)

In 2011 staff proposed funding the implementation of a Geographic Information System (GIS). A GIS system provides for electronic mapping and record keeping of Village utilities in a standardized format that can be shared across the organization. At that time, the Village Board elected to delay this objective due to budgetary constraints. Staff proposes to re-initiate funding for this program in FY2014-15, which would be split between the Water and Sewer Funds. Additional information on the proposed GIS program would be presented to the Village Board as part of the next year's budget.

WATER MAINS / CAPITAL IMPROVEMENTS

The Water Main line item includes expenses generally associated with Capital Improvement Projects in the Water Fund. For future budget estimating, the Village allocates on average approximately \$250,000 each year towards Capital Improvements in the Water Fund.

2-13.10

WATER MAINS

In general, staff attempts to coordinate water main replacement projects in conjunction with street resurfacing in order to limit disruption and reduce overall project costs. Staff has assessed the water mains along future roadway resurfacing projects and provides the following recommendations:

Cossitt Avenue Resurfacing Project

As part of the Cossitt Avenue Resurfacing Program staff recommends replacement of the water main on Cossitt Avenue from Gilbert Avenue to Leitch Avenue. This main was installed in 1925 and has experienced a number of recent water main breaks. The remaining water main on Cossitt Avenue from Leitch Avenue to Park Road was replaced in 1995.

Included in the FY2013-14 budget is \$15,000 for engineering of the replacement the Cossitt Avenue water main. Included in the FY2015-16 budget is \$250,000 for construction of the water main as part of the resurfacing project scheduled in FY2015-16.

FY2015-16 Street Resurfacing Program

As part of the FY2015-16 street resurfacing program, staff has indentified the water mains on Beach Avenue and Newberry Avenue from Shawmut Avenue to the BNSF Railroad for replacement. Staff has identified the water main on these two streets as needing replacement due to periodic water main breaks, and as such has proposed these water main segments for replacement to coincide with the resurfacing program. These water mains were installed in the 1930's. Included in the FY2014-15 budget is \$20,000 for engineering services for replacement of the water main. Included in the FY2015-16 budget is \$450,000 for construction of the water main to coincide with the street resurfacing program.

Given the low traffic volumes on these streets, staff intends to further assess the condition of these streets and water mains over the next year. Staff proposes keeping the budget as is while cost estimates and alternate construction methods such as street patching and water main lining are assessed. Inclusion of these streets and water mains in future budget years would then be revisited during next year's Capital Improvement Program for final direction.

In summary, the following chart details the proposed capital expenditures within the Water Fund for the next five years.

Expenses - Mains					
Project	FY2012-13	FY2013-14	FY2014-15	FY2015-16	FY2016-17
Water Meter Replacement Project	1,300,000	200,000			
Cossitt Avenue Water Main – Engineering		15,000			
Cossitt Avenue Water Main-Construction				250,000	

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Beach & Newberry Water Main Engineering			20,000		
Beach & New Berry Water Main Construction				450,000	
Pump Station – Engineering	95,776	30,000			
Pump Station – Construction		550,000			
Proposed Budget	1,395,776	795,000	20,000	700,000	250,000

Other Water Fund projects “identified, but not yet budgeted” include the following:

47th Street Water Main Replacement

The water main that runs the entire length of the 47th Street corridor is between 77 and 86 years old and has experienced frequent breaks. The estimated replacement cost exceeds \$1.0 million. Staff plans to consider new technology for lining this water main instead of the traditional removal and replacement. The advantage of lining this water main would be to reduce costs by not having to replace the roadway due to water main excavation. Additionally, limiting the disruption on 47th Street by lining the water main is beneficial since 47th Street is under the jurisdiction of IDOT and carries a significant amount of traffic. Staff will be assessing the cost of replacing this water main and will make recommendations for expenditures once the various alternatives have been assessed.

Edgewood Avenue Water Main Replacement

The water main on Edgewood Avenue from 51st Street to Linklater Court has experienced frequent water main breaks. The replacement of this water main will be considered as part of any future resurfacing project on this street.

2-B.12

SEWER FUND

VILLAGE OF LA GRANGE
SEWER FUND
WORKING CAPITAL SUMMARY THROUGH APRIL 30, 2018

Working Capital, April 30, 2010			391,381
Revenues	2010-11	398,226	
Expenses	2010-11	<u>(601,201)</u>	<u>(202,975)</u>
Working Capital, April 30, 2011			188,406
Revenues	2011-12	380,074	
Expenses	2011-12	<u>(406,652)</u>	<u>(26,578)</u>
Working Capital, April 30, 2012			161,828
Revenues	2012-13	421,600	
Expenses	2012-13	<u>(581,114)</u>	<u>(159,514)</u>
Working Capital, April 30, 2013			2,314
Revenues	2013-14	457,000	
Expenses	2013-14	<u>(422,413)</u>	<u>34,587</u>
Working Capital, April 30, 2014			36,900
Revenues	2014-15	502,000	
Expenses	2014-15	<u>(442,804)</u>	<u>59,196</u>
Working Capital, April 30, 2015			96,097
Revenues	2015-16	552,000	
Expenses	2015-16	<u>(452,895)</u>	<u>99,105</u>
Working Capital, April 30, 2016			195,202
Revenues	2016-17	552,000	
Expenses	2016-17	<u>(483,142)</u>	<u>68,858</u>
Working Capital, April 30, 2017			264,060
Revenues	2017-18	552,000	
Expenses	2017-18	<u>(493,863)</u>	<u>58,137</u>
Working Capital, April 30, 2018			<u><u>322,197</u></u>

2-c

SEWER

ACCT. NO.	ACCOUNT DESCRIPTION	2010-11 ACTUAL	2011-12 ACTUAL	2012-13 BUDGET	2012-13 EST. ACT	2013-14 BUDGET	2014-15 BUDGET	2015-16 BUDGET	2016-17 BUDGET	2017-18 BUDGET
8000 REVENUES										
CHARGES FOR SERVICES										
5210	SEWER SERVICE FEE	391,170	373,883	410,000	415,000	450,000	495,000	545,000	545,000	545,000
5211	CONNECTION FEES	5,600	5,600	6,000	6,000	6,000	6,000	6,000	6,000	6,000
	SUBTOTAL	396,770	379,483	416,000	421,000	456,000	501,000	551,000	551,000	551,000
INTEREST INCOME										
5500	INVESTMENT INTEREST	1,456	591	1,000	600	1,000	1,000	1,000	1,000	1,000
	SUBTOTAL	1,456	591	1,000	600	1,000	1,000	1,000	1,000	1,000
MISCELLANEOUS REVENUES										
5899	MISCELLANEOUS	-	-	-	-	-	-	-	-	-
	SUBTOTAL	-	-	-	-	-	-	-	-	-
	TOTAL REVENUES	398,226	380,074	417,000	421,600	457,000	502,000	552,000	552,000	552,000

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2-c.1

SEWER FUND

ACCT. NO.	ACCOUNT DESCRIPTION	2010-11 ACTUAL	2011-12 ACTUAL	2012-13 BUDGET	2012-13 EST. ACT	2013-14 BUDGET	2014-15 BUDGET	2015-16 BUDGET	2016-17 BUDGET	2017-18 BUDGET
8000	EXPENDITURES	PERSONNEL								
6000	SALARIES - FULL-TIME	123,634	133,297	135,607	135,617	139,685	143,876	148,192	152,638	157,217
	SALARY ALLOCATIONS									
	Salaries - F/T - Admin	27,183	26,989	28,080	28,121	29,414	30,595	31,825	33,111	34,457
	Salaries - F/T - Finance	22,496	22,103	22,070	22,255	23,239	23,695	24,353	25,031	25,729
	Salaries - F/T - Water	18,592	17,877	18,399	18,535	19,721	20,056	20,558	21,072	21,599
		191,905	200,266	204,156	204,527	212,060	218,222	224,928	231,852	239,002
6002	SALARIES - OVERTIME	19,498	13,312	10,500	10,500	13,500	13,905	14,322	14,752	15,194
6004	IMRF CONTRIBUTIONS	30,049	27,893	27,905	27,480	31,578	32,498	33,495	34,525	35,587
6005	FICA/MEDICARE	15,421	15,338	16,421	16,450	17,255	17,758	18,303	18,865	19,446
6009	IRMA CONTRIB / CLAIMS	11,383	11,963	13,217	11,430	11,365	11,365	11,365	11,365	11,365
6010	HEALTH INSURANCE	14,922	15,876	14,609	14,609	15,676	16,833	18,077	19,414	20,851
6020	TRAINING & MEMBERSHIP	118	267	500	500	500	500	500	500	500
6021	UNIFORMS	1,289	1,162	1,400	1,400	1,400	1,400	1,400	1,400	1,400
	SUBTOTAL	284,585	286,077	288,708	286,895	303,334	312,481	322,389	332,672	343,344
		SUPPLIES & MATERIALS								
6100	TOOLS & SUPPLIES	823	1,216	1,500	1,500	1,500	1,500	1,500	1,500	1,500
6102	GAS & OIL	5,559	5,970	5,700	8,055	8,000	8,000	8,000	8,000	8,000
	SUBTOTAL	6,382	7,186	7,200	9,555	9,500	9,500	9,500	9,500	9,500
		OPERATIONS & CONTRACTUAL								
6210	TELEPHONE	3,368	2,863	3,000	3,000	3,000	3,000	3,000	3,000	3,000
6220	MTCE-EQUIPMENT	5,385	13,101	7,000	7,000	7,000	7,000	7,000	7,000	7,000
6224	MTCE-MANHOLE/SEWERS	11,402	2,069	10,000	10,000	10,000	10,000	10,000	10,000	10,000
6230	PROFESSIONAL SERVICES	10,575	14,347	5,000	5,000	5,000	15,000	15,000	15,000	15,000
6232	AUDITING	1,248	1,266	1,318	1,318	1,469	1,399	1,582	1,629	1,678
	SUBTOTAL	31,978	33,646	26,318	26,318	26,469	36,399	36,582	36,629	36,678

2-C.2

SEWER

ACCT. NO. ACCOUNT DESCRIPTION	2010-11 ACTUAL	2011-12 ACTUAL	2012-13 BUDGET	2012-13 EST. ACT	2013-14 BUDGET	2014-15 BUDGET	2015-16 BUDGET	2016-17 BUDGET	2017-18 BUDGET
<u>CAPITAL OUTLAY</u>									
6600 NEW EQUIPMENT	-	6,895	3,000	3,000	3,000	3,000	3,000	3,000	3,000
6605 COMPUTER EQUIPMENT	715	992	1,000	1,000	1,000	1,000	1,000	1,000	1,000
6625 SEWERS	199,000	5,000	205,000	185,000	5,000	5,000	5,000	5,000	5,000
66XX SEWER LINING	-	-	-	-	-	-	-	10,000	10,000
6660 EQUIPMENT - RESERVE (ERF)	36,097	38,747	34,346	34,346	39,110	40,424	40,424	50,340	50,340
6681 MANHOLE REPLACEMENT	42,444	28,109	35,000	35,000	35,000	35,000	35,000	35,000	35,000
SUBTOTAL	278,256	79,743	278,346	258,346	83,110	84,424	84,424	104,340	104,340
TOTAL FOR DEPARTMENT	601,201	406,652	600,572	581,114	422,413	442,804	452,895	483,142	493,863

BUD12\13SWRBUD
1/22/2013

2-C.3

VILLAGE OF LA GRANGE
Department of Public Works

EXECUTIVE COMMITTEE REPORT

TO: Village President, Village Board of Trustees
Village Clerk and Village Attorney

FROM: Robert Pilipiszyn, Village Manager
Ryan Gillingham, Director of Public Works
Lou Cipparrone, Finance Director

DATE: January 28, 2013

RE: **SEWER FUND – STATUS REPORT FY 2012-13**

SEWERS

FY2012-13 expenditures include costs associated with the Poplar Place drainage improvements project in the amount of \$200,000. Please see the Capital Projects Fund for a complete description of the project. The overall project came in approximately \$110,000 below estimated costs which is primarily reflected in the Capital Projects line item. Please note, funds for construction costs for this project were also budgeted in the FY2012-13 Capital Projects in the amount of \$250,000.

Budgeted expenditures also include the annual \$5,000 NPDES (National Pollutants Discharge Elimination System) permit fee charged by the State of Illinois.

SEWER LINING

The Village owns and maintains approximately 360,000 feet of sewers. The life expectancy of a sewer can vary, but a conservative estimate is that the useful life of a sewer is 100 years. Therefore a rehabilitation program to repair, replace and/or rehabilitate the existing infrastructure is required to maintain the functionality of the existing system. Traditionally, the Village splits the cost of maintaining combined sewers between the Capital Projects Fund (storm sewer portion -90%) and Sewer Fund (sanitary sewer portion – 10%).

To start repairing some of the Village's sewers, staff proposed an annual sewer lining program with a cured-in-place liner that provides a new structurally sufficient pipe within the existing pipe. This process is less disruptive to residents since it does not require traditional open trench methods for installation.

Due to limited funding, this program was put on hold until sufficient reserves were accumulated to sustain the program on an annual basis. This maintenance activity is planned to resume in FY2016-17 in the amount of \$10,000 per year with a corresponding \$100,000 budgeted in the Capital Projects line item.

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VILLAGE OF LA GRANGE
Department of Public Works

EXECUTIVE COMMITTEE REPORT

TO: Village President, Village Board of Trustees
Village Clerk and Village Attorney

FROM: Robert Pilipiszyn, Village Manager
Ryan Gillingham, Director of Public Works
Lou Cipparrone, Finance Director

DATE: January 28, 2013

RE: **SEWER FUND -- STAFF RECOMMENDATIONS FY 2013-14**

SEWER RATE

The Sewer Fund was established many years ago as an Enterprise Fund to pay for the maintenance and replacement of the Village's sanitary sewer system (as compared to storm sewer and combined storm and sanitary sewer work, which is funded through the Capital Project Fund). The Sewer Fund will however contribute towards but not fully fund, the maintenance and replacement of work involving combined sewers. Our goal is to maintain Sewer Fund reserves at about 50% of operating expenses. The Sewer Fund reserve balance as of April 30, 2012 was approximately 40 percent of annual operating expenses. However, after the Poplar Place Improvement Project in FY2012-13, the reserve balance fell to less than 1% of annual operating expenses.

In order to provide funding for projected operations and capital expenditures, and to rebuild sewer reserves, staff recommends the planned sewer rate increases of 10% each year for three consecutive years, beginning in FY2013-14. As we continue with repairs and main replacement we may need to consider additional rate increases to fund sewer projects and maintain adequate reserves. We estimate that these planned increases will result in an increase of \$15 per year for each sewer customer.

Please note that in FY2012-13, revenues from Sewer Service Fees are estimated to be over budget due to above average water usage resulting from the dry summer conditions. Sewer fees are based upon cubic feet of water used multiplied by a separate sewer rate. Therefore, an increase in the sewer rate does not affect water charges, nor does an increase in the water rate affect sewer charges.

SEWERS

The Sewer Fund was established as an enterprise fund to finance the cost of sanitary sewer expenses. The Village's sewer system consists of three types of flows: storm, sanitary and combined. While much of the Village's sewer system is combined flow, we would not be able to finance the entire cost of MARS solely using this Fund or at a higher funding level. The

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preliminary engineering estimates for the identified relief sewer projects indicated that we may need some increase in sewer rates to fund future relief sewer projects. Staff will be assessing these various options for financing and will provide additional information during future budget development processes.

The FY2013-14 budget includes the annual \$5,000 NPDES (National Pollutants Discharge Elimination System) permit fee charged by the State of Illinois for the discharge of combined sewage.

Finally, as part of the Street Condition Survey, repairs to the various sewers were identified and cost estimates were developed based on the sewer televising program.

Other contemplated sewer projects that would require funding include the following:

1. Maple Avenue Relief Sewer (MARS)
2. Ogden Avenue Relief Sewer (OARS)
3. Sewer improvements south of 47th Street

PROFESSIONAL SERVICES

Expenditures include costs for miscellaneous engineering services, annual updates to the sewer atlas as well as costs associated with the review and recommendations arising from the sewer televising program.

Geographic Information System (GIS)

As discussed in the Water Fund Report – Staff Recommendations, funding for the implementation of GIS is proposed for FY2014-15. Costs for this program would be split between the Water and Sewer Funds. Additional information on the proposed GIS program would be presented to the Village Board as part of the next year's budget.

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