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**MANAGER'S REPORT FOR JULY 20, 2012**  
**GENERAL INFORMATION AND RESPONSES TO MAYOR & COMMISSIONER REQUESTS**

***Places to be this Week...***

**Coffee with the Council** – Coffee with the Council will be held at the Orchard Brook Clubhouse on July 21, 2012 at 9 a.m.

***Future Calendar Reminders...***

**Village Council Meeting** – The next Village Council meeting will be held on **Tuesday, August 7 at 7 p.m.** in the Council Chambers at Village Hall.

**Coffee with the Council** - Dates and locations for Coffee with the Council have been firmly set through September. The next Coffee with the Council will be held on July 21, 2012 at the Orchard Brook Clubhouse. Information has been provided to Orchard Brook residents about the event and it has been publicized by the Village through other media sources as well.

The remaining dates and locations include:

July 21 - Orchard Brook Clubhouse

August 18 - Main Street Station/Downtown Market

September 15 - McCollum Park

**Valley View Pond Meetings with Residents** - The attached email was sent to residents in the Valley View neighborhood whose email we have on file on Friday afternoon. It is expected that the first meeting with residents will be scheduled in early August. Regular updates will be provided in the Manager's Report as staff meets with that group. Responses to the questions that were asked, including an explanation of a special service area and the process for establishing it, will be posted on the Village website within the next two weeks.

**Article in Sustainable City Network Newsletter** – On Wednesday, July 18, 2012, the Village's Hybrid Streetlights were featured in the newsletter of the Sustainable City Network. The article is attached and also available online here: [tinyurl.com/cncwt8d](http://tinyurl.com/cncwt8d)

## **ONGOING PROJECTS**

### **Belmont Underpass**

#### **Work during Previous Week**

- Work continues on the removal of the west half of the north boarding platform
- Work continues on the new and replacement traffic signals at Hadow and Prairie.
- Landscaping of the disturbed areas continues throughout the project.

#### **Planned Work**

- Complete the traffic signals at Hadow and Prairie by mid to late August
- Open Belmont Road to four lanes of traffic with temporary striping after signals are complete
- Complete landscape restoration (place sod) starting September 1<sup>st</sup>
- Install final asphalt surface course and striping after landscaping is complete
- Open Belmont to four lanes of traffic with final surface and striping

- Percent Complete: 93%

## **STREET MAINTENANCE**

### **2012 Roadway Maintenance Program, Street Resurfacing (A) Phase 1**

Awarded Amount: \$2,071,188.10

Contract Completion Date: 8/3/12

Contract Completion Date For Sod: 9/15/12

#### Work Performed This Week:

- Parkway restoration in the Deer Creek and Downers Dr / Almond areas.
- Surface milling operations completed on Red Silver, Red Bud and started on Downers Dr.
- Base patching operations completed in the Deer Creek area, on Powell and started on Lincoln.
- The majority of concrete curb and sidewalk repairs complete in the Snowberry area and Downers Dr near Snowberry.

#### Work Anticipated Next Week:

- Parkway restoration prep will continue in the Downers Dr and Snowberry areas.
  - Base patching operations should be completed on Lincoln and progress to the Downers Dr, Red Bud, and Red Silver areas.
  - The first course of asphalt paving should take place in the Deer Creek area and Powell. This work may also progress to Lincoln and the Downers Dr, Red Bud and Red Silver area depending on the weather. Surface course paving should be completed in the Valleyview area.
- Percent Complete 60%

### **2012 Roadway Maintenance Program, Street Resurfacing (B) Phase 2**

Awarded Amount: \$1,734,912.38

Estimated Start of Work: August 2012

Contract Completion Date: 11/16/12

### **2012 Preventive Seal & Parking Lot Improvements**

Awarded Amount: \$298,539.74

Contract Completion Date: July 29, 2012

#### Work Anticipated Next Week:

This weekend (Saturday & Sunday, July 21<sup>st</sup> & 22<sup>nd</sup>) the contractor is scheduled to crack seal, seal coat, and pavement mark the Village Hall upper lot, weather permitting.

Next weekend (Saturday & Sunday, July 28<sup>th</sup> & 29<sup>th</sup>) the contractor is scheduled to crack seal, seal coat, and pavement mark the Police Department lower lot, weather permitting.

Percent Complete: 87%

### **Valley View Estates Reconstruction and Water Main Replacement**

Awarded Amount: \$3,552,453.00

Contract Completion Date: November 16, 2012

#### Work Performed This Week:

This week the contractor completed excavation and stone base installation on Waterfall, Valleyview, Foster, and Hobart. The contractor began grading for paving next week.

#### Work Anticipated Next Week:

Next week the contractor will complete paving of the binder course on Waterfall, Foster, Valleyview, and Hobart. The contractor is also scheduled to start water main replacement on Robey.

Percent Complete: 40%

### **Knottingham Reconstruction and Water Main Replacement**

Awarded Amount: \$5,489,847.76

Contract Completion Date: November 16, 2012

Work Performed This Week:

The contractor continued the reconstruction of Knottingham between 77<sup>th</sup> Street and 75<sup>th</sup> Street and Elizabeth Lane between Knottingham and Baimbridge. He also continued installing new water services on Rohrer.

Work Anticipated Next Week:

Next week the contractor will complete the reconstruction of Knottingham and Elizabeth by backfilling the curbs, installing driveways and placing the asphalt binder. The contractor is scheduled to begin pavement removal on Baimbridge.

Percent Complete: 40%

**Grove Street Reconstruction**

Awarded Amount: \$970,000

Contract Completion Date: To be determined

The contract was approved for the Grove Street Reconstruction Project by Council on Tuesday, July 10<sup>th</sup> and staff is working with the contractor to finalize the contracts and issue a notice to proceed. A pre-construction and neighborhood meeting will be held in the near future to discuss the final design and schedule with those that are directly affected. A Notice of Award has been sent to the contractor.

- Percent Complete: 0%

**Carpenter Street Resurfacing, Maple to Gilbert**

Awarded Amount: \$136,482.65.

Start of Construction: 07/18/12

Contract Completion Date: 8/17/2012

Work Performed This Week:

Contractor completed sawcutting, tree root pruning, removed and replaced concrete curb, sidewalk and driveways.

Work Anticipated Next Week:

Surface removal, frame and lid adjustments, pavement patching and binder placement.

Percent Complete: 10%

**SIDEWALKS**

**2012 New Sidewalk Installation Program**

Contract Amount: \$ 552,129.61

Contract Completion Date: August 27, 2012

Work Performed This Week: Completed excavation on Carol St, Virginia St, Brook Dr and Downers Dr.

Sidewalks installed on Sterling Rd, Carol St and Virginia St, except through driveways. Completed storm sewer work on 60<sup>th</sup> St, Meadowlawn Ave, 62<sup>nd</sup> Pl and Sterling Road.

Work Anticipated Next Week: Install sidewalk through all driveways. Framing and sidewalk installation on Brook Dr and Downers Dr.

Percent Completion: 60%

**2012 Replacement Sidewalk Program**

Awarded Amount: \$130,522.50

Start of construction: Week of June 25<sup>th</sup>

Contract Completion date: September 28<sup>th</sup>

This week the Contractor continued pre-cutting and removing sidewalk marked for replacement.

Next week the Contractor is scheduled to place concrete for sidewalk.

Percent Complete: 10%

**WATER SYSTEM IMPROVEMENTS**

### **2012 Water Main Improvements – Contract A**

Awarded Amount: \$1,062,737.50

Contract Completion Date: 7/30/12

Completion Date for Sod: 9/14/12

#### Work Performed This Week:

The contractor completed the installation of water main on Cross Street.

#### Work Anticipated Next Week:

Installation of water main services on Lee Avenue. Test and chlorinate water main on Cross Street.

- Percent Complete: 70%

### **2012 Water Main Improvements – Contract B**

Awarded Amount: \$1,312,022.56

Start of construction: Week of July 2<sup>nd</sup>

Contract Completion date: September 28<sup>th</sup>

#### Work Performed This Week:

The main line water main on Florence Avenue was completed. Pressure testing and chlorination of the water main was performed as well. Water main installation started on Cumnor Road between 55<sup>th</sup> Street and 56<sup>th</sup> Street.

#### Work Anticipated Next Week:

Water main installation will continue on Cumnor Road. Water main is scheduled to be installed on Blodgett Avenue between Maple Avenue and Randall Street.

Percent Complete: 20%

## **STORMWATER/DRAINAGE IMPROVEMENTS**

### **2<sup>nd</sup> and Cumnor – Basin Planting**

Awarded Amount: \$39,515.00

Contract Completion Date: June 2013

The grading, and plantings have been complete. The contractor is continuing with maintenance and monitoring of the plants. Maintenance includes management of the weeds that typically grow until the planted materials are established.

#### Work Anticipated Next Week:

Delivery and installation of the remaining pond plantings

- Percent Complete: 75%

### **Prentiss Creek (Sub E) – Kensington Place**

Awarded Amount: \$330,644.58

This is a design/build contract and the project is in the design phase.

Contract Completion Date: Anticipated Summer 2013

#### Work Performed This Week:

The contractor has been evaluating the water level of Prentiss Creek since the debris removal from the weir structure near Woodward Ave. The extent of the existing wetland plants have been delineated. The contractor continues to coordinate with the Illinois Department of Natural Resources for a determination on the permitting requirements for future improvements to the weir structure.

#### Work Anticipated Next Week:

The Village stormwater consultant, Burns & McDonnell, will verify and evaluate the wetland delineation completed by the contractor. Topography and data collection of the area for design purposes will begin. The contractor will determine if any planting of the mudflat exposed by the debris removal from the weir will be feasible this year.

### **Lacey Creek (Sub G) Stormwater Improvements - 35<sup>th</sup> St between Saratoga and Venard**

Final plans and specifications have been delivered and the project permit was approved by the Army Corp of Engineers. The project will be advertised for bid next week. A neighborhood meeting was held July 11, 2012 at Public Works.

### **Oakwood Storm Sewer Replacement**

Current Contract Amount: \$453,620.00

Contract Completion Date: August 10, 2012

#### Work performed this week

Storm sewer installation

#### Work to be performed next week

Continue storm sewer installation

Installation of curb and gutter

- Percent Complete: 50%

### **St. Joseph Creek (South Branch) Streambank Stabilization**

Tree removal work has been completed throughout the project area. Grading and construction activities will begin the week of July 23<sup>rd</sup>, starting west of Washington Street.

### **Drainage Improvements at Fire Station #3**

Design plans have been completed. The project is currently out to bid with bid openings to take place next Wednesday, July 25<sup>th</sup>.

### **Wisconsin and Janes Stormwater Improvements**

Bids opened on July 18, 2012.

Recommendation to be placed on August 14 agenda

### **Existing Drainage Investigation**

Phase I and Phase II are complete for 40<sup>th</sup> and Glendenning and reports have been delivered. Phase I for Maple and Carpenter will be completed in July 2012. Staff is reviewing options for improving the drainage at both locations.

### **Elm St Storm Sewer Improvements**

Bids opened on July 18, 2012.

Recommendation to be placed on August 7 agenda

### **ATTACHMENTS**

Email to Valley View Residents

Article on Hybrid Streetlights



VILLAGE OF  
DOWNERS GROVE

Allison Deitch <adeitch@downers.us>

## Fwd: Valley View Pond Meetings with Residents

1 message

Michael Baker <mbaker@downers.us>  
To: Allison Deitch <adeitch@downers.us>

Fri, Jul 20, 2012 at 3:54 PM

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**Michael Baker**  
Deputy Village Manager  
Downers Grove, Illinois  
801 Burlington Avenue / 60515  
[630.434.6877](tel:630.434.6877) office

----- Forwarded message -----  
From: **Sheryl Vlk** <svlk@downers.us>  
Date: Fri, Jul 20, 2012 at 3:47 PM  
Subject: Valley View Pond Meetings with Residents  
To:  
Cc: Michael Baker <mbaker@downers.us>

### I am forwarding the following email on behalf of Mike Baker, Deputy Village Manager

Valley View Pond Residents,

My name is Mike Baker and I serve as the Deputy Village Manager here in Downers Grove. I will be assisting you with the process of better understanding the options available in improving the pond. It is my expectation that this process will allow interested residents to be actively involved in discussion of these options and as the final solution is determined. It would be beneficial to the process if there were one resident from the area who could be identified as a primary point-of-contact that I could work with on logistics and overall coordination. As more information is made available, it will be shared with all residents who would like to participate.

In terms of next steps, I would like to find a convenient date, time and location for an informal meeting to discuss the specific process that will be followed to productively continue this discussion with a goal of wrapping up in approximately a 60-day timeframe. I will be out of the office during the week of July 23, and therefore, would likely be looking for that first meeting opportunity to occur in early August.

If someone from the group could provide the name, email and telephone number of the designated contact person by Friday, July 27, I will contact that resident immediately upon my return in order to set up that first meeting.

Thank you very much for your continued and active involvement and I look forward to this upcoming process.

Best Regards,  
Mike

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**Michael Baker**  
Deputy Village Manager  
Downers Grove, Illinois

## Hybrid Street Lights Take Security 'Off the Grid'

By F. Alan Shirk | Posted: Wednesday, July 18, 2012 10:45 am

Hybrid street lighting, an off-the-grid system using solar panels, wind turbines and an LED luminaire, is yet another sustainability-driven solution for overstretched municipal budgets.

Downers Grove, Ill., a suburb west of Chicago, became the first U.S. community to turn on hybrid lighting in a residential subdivision in March 2010. Today, not only is the 25-light system saving about \$100,000 in electric and maintenance costs over its life cycle, but it's also contributing to reduced carbon emissions and enhanced neighborhood safety.

"This is a great example of staff responding to the needs of our residents with a highly innovative and cost-effective solution," said Downers Grove Mayor Ron Sandack, shortly after the hybrid system in the Prentiss Creek subdivision became operational after nearly two years of planning and construction.

The \$282,500 project, sole-sourced to the StressCrete/King Luminaire Group location at Jefferson, Ohio, was partially funded through a 2009 Community Development Block Grant (CDBG) from the Dupage County Neighborhood Investment Program. It covered 45 percent of the total cost, which was slightly higher than that for conventional lighting.

The new hybrid streetlights are designed to last for 100,000 hours, as opposed to those used in traditional systems that need replacing after just 10,000 hours. Over a period of 30 years, the hybrid streetlights will save more than 500,000 kilowatts of electricity and reduce CO2 emissions by almost 350 tons.

Kevin Bobikiewicz, public services coordinator for Downers Grove, generated a lot of interest in the city's hybrid lighting project at the American Public Works Association's recent sustainability conference in Pittsburgh.

Downers Grove received the Technical Innovation Award for the Hybrid Street Light Project from the APWA's Chicago Metro Chapter and Suburban Branch. This award category recognizes new and innovative applications of technology.

According to Bobikiewicz, sustainability has become a way of life in Downers Grove.

"We have a village innovation committee that works on sustainability ideas, as well as operating efficiencies and improvements. Downers Grove has completed several dozen sustainability projects including energy efficient lighting upgrades on several buildings, and heating efficiency projects with solar panels. We have a sustainable initiatives program for our fleet, using natural gas and E85 fuels for vehicles, as well as collecting used cooking oil for bio diesel fuels. We also have a furnace that burns used motor oil dropped off by residents to help heat our fleet maintenance garage," he said regarding the community's commitment to sustainability.

In August of 2008, the Prentiss Creek Homeowner's Association (HOA) asked the committee to bring streetlights to its area. After meeting with residents and hearing their hopes and concerns, the committee decided to look into a system powered by alternative energy.

Hybrid lighting has many advantages if it can work for your community. Finding grants make it even more attractive. And everyone has to have input.

Bobikiewicz said there were a lot of options available and the choices were a bit overwhelming. "We had to see if alternative energy could work here. While we found there was not enough sun day-to-day, there was plenty of wind in Chicago, which led us to a hybrid solution."

He added that there were a lot of equipment choices, for example, poles, and the sizes and kinds of solar panels and turbines. "We settled on a Gemini Grid-Free spun concrete streetlight (now Enlighten Solar & Wind (<http://enlightenhybrid.com/>) based on aesthetics and functionality and equipped with a sealed bearing wind turbine and a 175-watt solar panel on an articulated arm."

"At first people were apprehensive because of the look of some of the options, but the response to the final product has been overwhelmingly positive," said Jack Reidy, president of the Prentiss Creek HOA.

Installation was quick and easy, said Bobikiewicz. "Each 25-foot pole weighing 4,200 pounds had to be placed five feet in the ground in a 24-inch hole. The ones we used have no control boxes hanging on them and all of the components are at the top of the pole. The batteries are installed in an easily accessible, locked bottom compartment. The pole coating is graffiti-proof. And their height takes maximum advantage of the sun and wind."

Since Prentiss Creek contains numerous, 30-year-old mature trees, residents did not want them disturbed. Conventional street lighting is spaced every 150 feet to assure enough coverage. "Since the hybrid poles are direct bury and self-contained, we had the flexibility of spacing them as close as 120 feet or as far apart as 160 feet. No trees had to be taken down.

"Overall impact to the neighborhood during installation," Bobikiewicz continued, "was minimal, as no trenching was necessary to install in-ground wiring. We did not need to interfere with hydrants, signs, underground lines and were able to place lights at all intersections."

LED lights are one of the things that make off-the-grid lighting more possible and efficient, said Bobikiewicz. "They have a very low voltage draw. We run a 56-watt fixture on 24 volts that has a warranty and longevity of up to 100,000 hours. Plus we can direct our luminaires to shine on the street rather than on front yards, which the residents prefer. You need to pick a quality LED fixture."

Battery capacity and storage is very important. For example, explained Bobikiewicz, no matter how much capacity, you have to be able to charge batteries with the solar and wind capacity available. "Again, LED is an advantage because it draws on batteries a lot less. And we can add larger batteries if we have to." It cost Downers Grove \$300 per pole for deep cycle solar-powered batteries, which have a 10-year life.



Since the system was installed, technology has advanced so that the 25 lights in Prentiss Creek are now "smart" poles. "We have switched to a web-based AWS Truepower controller, which makes them easy to program. We can log on from anywhere around the globe to monitor each pole and make adjustments, for example, if we want to turn lights on earlier, or redirect them. Controllers, too, are one of our only replaceables."

How has Downers Grove hybrid lighting performed?

Bobikiewicz said as advertised. "The system is very durable and reliable and has gone through two winters. The solar side has performed best. We face the panels southwest for the best winter sun and tilt them so ice and snow slide off. On rare occasions, one or two poles may not get enough of a charge to stay lit all day. And, being in Chicago, wind turbines are a good thing. When we get blizzards and 40-mile-an-hour winds, they really spin."

Hybrid lighting has a lot of applications, said Bobikiewicz. They include parks, parking lots, highways, unlit remote areas where it may be too costly to use conventional street lighting. "It is especially good for new developments. Municipalities can require developers to include it.

"Solar lighting is not new. But hybrid technology now offers cities like Chicago the option to use more alternative energy. This combination scored very well for us in getting our grant."

"That's why we decided on hybrid lighting based on our region and to use the combination of solar and wind power to get the best results for year-round dusk-to-dawn operation for the new lights," he added.