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DEPARTMENT OF
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**NOTICE OF MEETING
of the
MUNICIPAL SERVICES COMMITTEE OF THE
BOARD OF TRUSTEES OF THE VILLAGE OF WILMETTE**

**November 19, 2019 at 8:00 A.M.
Second Floor Training Room
Wilmette Village Hall
1200 Wilmette Avenue, Wilmette, Illinois**

AGENDA

1. Call to Order
2. Approval of minutes of the July 8, 2019 meeting of the Municipal Services Committee
3. Stormwater Credit and Incentive Program
4. Green Infrastructure Grant from the Metropolitan Water Reclamation District of Greater Chicago
5. Public Comment
6. Old Business
7. New Business
8. Adjournment

Trustee Dan Sullivan, Chair

IF YOU ARE A PERSON WITH A DISABILITY AND NEED SPECIAL ACCOMMODATIONS TO PARTICIPATE IN AND/OR ATTEND A VILLAGE OF WILMETTE PUBLIC MEETING, PLEASE NOTIFY THE VILLAGE MANAGER'S OFFICE AT (847) 853-7509 OR TDD (847) 853-7634 AS SOON AS POSSIBLE.



1200 Wilmette Avenue
WILMETTE, ILLINOIS 60091-0040

MEETING MINUTES

MUNICIPAL SERVICES COMMITTEE OF THE VILLAGE BOARD

MONDAY, JULY 8, 2019

5:30 P.M.

COMMUNITY RECREATION CENTER

ROOM 115

3000 GLENVIEW ROAD, WILMETTE, IL

Members Present: Trustee Daniel Sullivan, Chair
Trustee Gina Kennedy
Trustee Joel Kurzman

Staff Present: Brigitte Berger-Raish, P.E., Director of Engineering and Public Works
Dan Manis, P.E., Village Engineer
Ryan Kearney, P.E., Project Manager

Guests Present: Barbara Heaton, 715 Forest Ave
Mike Heaton, 715 Forest Ave
Jack Miles, 3007 Old Glenview Rd
Alan Meyers, 725 Prairie Ave
Wendy Shelton, 1109 Forest Ave
Jon Marshall, 822 Prairie Ave
Janet Mckevitt, 1003 Forest Ave
Carl Albrecht, 906 Forest Ave
George Pearce, 1114 Forest Ave
Gary Weitman, 835 Forest Ave
Chris Weitman, 835 Forest Ave
Tristan Farrell, 1125 Forest Ave
Bob Drucker, 714 Forest Ave
Rosie Drucker, 714 Forest Ave
Annie SooHoo, 161 Prairie Ave
Eileen Kelly, 147 Prairie Ave
Charles Sawyer, 922 Forest Ave
Cameron Krueger, 1219 Forest Ave

I. CALL TO ORDER.

Trustee Daniel Sullivan, Chair, called the meeting to order at 5:31 P.M. Committee members Trustees Gina Kennedy and Joel Kurzman were present.

II. APPROVAL OF MINUTES; MUNICIPAL SERVICES COMMITTEE MEETING OF NOVEMBER 27, 2018.

Trustee Sullivan directed the Committee's attention to the draft minutes of the Municipal Services Committee meeting of November 27, 2018.

Trustee Kurzman moved that the Committee approve the minutes. The motion was seconded by Trustee Kennedy. No further discussion occurred on the motion. **The motion carried by a unanimous voice vote.**

III. SEPARATE SANITARY SEWER SYSTEM: LONG TERM OPERATION AND MANAGEMENT PLAN (LTOMP) – PLAN OVERVIEW

Ms. Brigitte Berger-Raish, P.E., Director of Engineering and Public Works, discussed key components of the proposed LTOMP plan, included in the meeting packet, to the Municipal Services Committee.

- The purpose of the plan is to ensure that sewers tributary to MWRD are operating efficiently and that there are little to no sewer back-ups.
- Although no formal board action is required, the purpose of this discussion with the Committee is to highlight how the plan serves as an important component in Engineering and Public Works operations. This plan will also be sent to the Village Board via the Manager's Notes.
- Major portions of the plan are already implemented through current Village programs and annual budgets, including sewer lining and sewer point repair projects.
- A new component is an emphasis on how the Village will address private service defects. The Village is already begun implemented smoke detection testing and has seen good compliance rates with residents resolving the Phase 1 defects.
- If three or more back-ups occur at a property, the plan will require the Village to investigate the system further.

Trustee Sullivan asked if the Village has any sewer back-up issues now.

Ms. Berger-Raish explained how the Village is still vulnerable to sewer back-ups, but mentioned that the Village has been lucky with virtually no back-ups in recent years.

Trustee Kennedy asked if there are any hazards to the homeowners while the crews are working on the sewers; there was a discussion in the plan about avoiding potential safety hazards during the work.

Ms. Berger-Raish replied that homeowners should not face any hazards associated with sewer construction; the workers must follow OSHA standards when dealing with potential work zone hazards.

Trustee Kurzman asked about the basin schedule going forward.

Ms. Berger-Raish replied that the proposal for next year includes focusing on private sector enforcement of Phase 1 defects in the Princeton Basin.

Trustee Sullivan opened the floor to public comment on this topic. There were no public comments.

IV. ASPHALT OVERLAID BRICK STREETS – POLICY REVIEW

Mr. Dan Manis, P.E., Village Engineer, explained the current policy for rehabilitating brick streets with asphalt overlays. During pavement evaluations in 2019, staff identified a backlog of 15 blocks that qualify for rehabilitation under this policy. Mr. Manis explained the proposal to resurface some of these blocks with asphalt and schedule them for rehabilitation with bricks in the future. The Village does not recommend increasing the number of blocks rehabilitated with brick each year, as the increase would reduce the amount of streets that could be resurfaced throughout the Village. Mr. Manis also explained the proposed policy changes, which includes updating the remaining rehabilitation list and adding Park Avenue to the ineligible list due to high traffic volumes. The recommended policy updates and the proposed maintenance schedule were provided as attachments in the meeting packet.

Trustee Kennedy asked how the volume of traffic affects its suitability for returning to brick.

Mr. Manis explained that the brick surfaces cannot hold up on streets with high traffic volumes. The blocks that were originally constructed with brick but no longer experience low traffic volumes are noted as ineligible on the policy.

Trustee Sullivan opened the floor to public comment on this topic.

Ms. Janet Mckevitt, 1003 Forest Avenue, asked about the differences between Village brick street programs in relation to the one block per year policy. The resident also reminded Ms. Berger-Raish of her previous efforts to reconsider the brick surface cutoff point between Forest Avenue and Wilmette Avenue.

Ms. Berger-Raish clarified that the policy does not guarantee one block to be rehabilitated each year; the schedule for rehabilitating brick streets with asphalt overlays is based on the condition of other non-brick streets in the Village. Ms.

Berger-Raish also clarified that the policy is not related to the Brick Street Reconstruction Program or the Brick Street Patching Program, both of which focus on maintenance of streets with existing brick surfaces.

Mr. Mike Heaton, 715 Forest Ave, asked when the Village will know if funds are available to rehabilitate the 700 block of Forest Avenue in 2020.

There was a discussion regarding the budget scheduling process. The 2020 budget should be finalized before the end of the year.

Mr. Carl Albrecht, 906 Forest Ave, asked if streets located in national historic districts are prioritized for rehabilitation. Mr. Albrecht also explained the Relative Cost breakdown sheets he prepared for this meeting; these sheets were included in the supplemental meeting packet.

Ms. Berger-Raish replied that historic districts are not a factor in scheduling street rehabilitations.

Trustee Sullivan asked if the PCI ratings for the west blocks of Forest Avenue will continue to drop until rehabilitation.

Mr. Ryan Kearney, P.E., Project Manager, replied that Village staff will continue to monitor these blocks for intermediate repairs in order to extend the service life of the asphalt surface, which should limit the rate of pavement deterioration.

There was discussion on the ongoing system-wide roadway pavement condition inspections by staff and the upcoming asphalt area patching program.

Mr. Jon Marshall, 822 Prairie Ave, asked for clarification regarding the repair schedule on Prairie Avenue.

There was discussion regarding the plan to resurface Prairie Avenue, from Wilmette Ave to 15th St, in 2020 and to consider the street for brick rehabilitation in the future. The resurfacing work will not require street closures, but the project duration could take about five to six weeks. The Village will notify residents prior to the start of work.

Mr. Gary Weitman, 835 Forest Ave, asked if the Village is planning to resurface all of the asphalt overlaid brick streets with asphalt and then reconsider brick rehabilitation in 10 years.

Mr. Manis replied that only Prairie Avenue is being considered for resurfacing.

Trustee Sullivan noted that staff is also recommending to rehabilitate blocks into brick at the same time, starting with the 700 block of Forest Ave in 2020.

Mr. G. Weitman asked what will happen to his street before asphalt resurfacing in 2021. The resident claimed that the street is not safe.

Ms. Berger-Raish replied that Public Works crews will visit Forest Avenue to fill any potholes in order to remove hazards and ensure safety.

Mr. Alan Meyers, 725 Prairie Ave, asked about the timing of the resurfacing work and the disruptions to school traffic.

Mr. Kearney replied that staff will schedule the roadway construction near schools during the summer months, and the Village will coordinate with the school districts in order to avoid as many disruptions as possible.

Ms. Rosie Drucker, 714 Forest Ave, asked what happened to the original rehabilitation schedule for the 700 block of Forest Avenue.

Mr. Manis replied that the Village had a smaller budget for Road Program in 2019 due to the local share requirement to pay engineering and construction expenses on federal projects. Since the rehabilitation to brick would have dominated the budget for the Road Program, Forest Avenue was taken off the 2019 schedule.

Ms. Berger-Raish apologized to the residents on the 700 block of Forest Ave for the confusion, as there was no follow-up letter regarding the schedule change.

There was discussion on the current condition of Village roads in general. There will be a further review of the Village's Road Program this fall.

Ms. Eileen Kelly, 147 Prairie Ave, received confirmation that Prairie Avenue will not be converted back into brick for at least 10 years after resurfacing. Ms. Kelly asked why brick streets have lumps and do they require repairs more frequently.

Mr. Manis discussed the brick patching process. Similar to asphalt streets, brick streets are evaluated every several years and staff will identify areas that need patching repairs. The patching is done to help maintain an even riding surface.

Trustee Kennedy asked what causes the lumping phenomena in brick streets.

Ms. Berger-Raish explained that many of the brick streets were laid in the early 1900's and that the base underneath the bricks is settling due to natural causes and service line installations. The brick streets require less reoccurring maintenance than asphalt streets, but the result is an imperfect surface.

There was discussion regarding how to ensure that Contractor patch repairs return the brick streets to level. The Village has an inspector that will verify the patching work done by the Contractors. The Contractors must repair any patches that fail within three-years of installation. The Village also allows the use of flowable fill for utility trench backfill in order to have better consolidation.

Ms. Annie SooHoo, 161 Prairie Ave, asked why Prairie Avenue was considered for asphalt resurfacing first.

Ms. Berger-Raish explained that it was an economic decision; the goal is to keep Prairie Avenue safe until the brick rehabilitation on Forest Avenue is complete.

Trustee Kurzman mentioned that Prairie Avenue was overlaid with asphalt around 1928, about twenty years after being laid with bricks.

Ms. Barbara Heaton, 715 Forest Ave, asked if the construction of new homes affects the durability of brick streets.

Ms. Berger-Raish described the permit evaluation process, both before and after new home construction, and explained how current construction methods and Department practices are helping preserve the condition of the streets.

Ms. Wendy Shelton, 1109 Forest Ave, asked for clarification on who is liable for patching issues within the three-year installation window; homeowner or contractor.

Mr. Manis replied that notices will be sent to both parties, but ultimately the homeowner will be responsible to make the repair.

Mr. George Pearce, 1114 Forest Ave, asked about the process for updating the policy.

Ms. Berger-Raish said that staff will add the policy to the Committee agenda every several years for review, and that there has been consistent support in recent years. Ms. Berger-Raish also confirmed that residents on these blocks overwhelming support the brick rehabilitation option.

Mr. Tristan Farrell, 1125 Forest Ave, asked about the environmental benefits of brick streets and if the projects can be considered for outside funding.

Ms. Berger-Raish replied that the Village has been unsuccessful in applying for green infrastructure grants, citing the poor cost-benefit ratio due to the expense of bricks. Ms. Berger-Raish noted that staff will continue to apply for grant opportunities, including the MWRD green infrastructure grant, for at least one of the blocks of Forest Avenue.

The resident at 1219 Forest Avenue asked why the brick streets are not considered green infrastructure features.

There was discussion on how historic bricks were designed to be installed as close together as possible, and do not provide the same infiltration rates as modern bricks. The modern bricks have built-in spacers for drainage purposes.

A resident asked why a section of Linden Avenue was not converted to brick.

Ms. Berger-Raish did not recall any reasons regarding the section.

There was discussion on the impact of potential new revenue from recent federal/state bills. Any anticipated revenue will be factored into the 2020 budget process this fall.

Mr. G. Weitman asked if there is a systematic method for determining pothole repairs.

Ms. Berger-Raish explained that residents can submit work orders for immediate fillings, and that there is a systematic review of the roadway system as well.

Mr. Krueger asked if there are any material changes to the policy in this update.

Ms. Berger-Raish mentioned that taking Park Avenue off the list was a change.

Trustee Kennedy moved that the Committee adopts the policy changes as reflected in the memorandum. The motion was seconded by Trustee Kurzman. Comments on the motion are noted below. **The motion carried by a unanimous voice vote.**

V. PUBLIC COMMENT

There were no public comments.

VI. OLD BUSINESS

There was no old business.

VII. NEW BUSINESS

There was no new business.

VIII. ADJOURNMENT

Trustee Sullivan asked for a motion to adjourn. Trustee Kurzman moved to adjourn the meeting. The motion was seconded by Trustee Kennedy. No further discussion occurred on the motion. **The motion carried by a unanimous voice vote.**

The meeting was thereafter adjourned.

Minutes Respectfully Prepared by Ryan Kearney, P.E.



Meeting Date: November 19, 2019

To: Municipal Services Committee

From: [Brigitte Ann Berger-Raish](#), P.E., Dir. of Eng and Public Works
[Dan Manis](#), P.E., Village Engineer
[John Prejzner](#), Assistant Director of Administrative Services

Subject: Stormwater Credits and Incentives Manual

Recommendation

Municipal Services Committee review and provide direction on the Draft Stormwater Credits and Incentives Manual.

Background

Village Ordinance No. 2019-O-70, will be up for adoption on the November 26, 2019 Village Board meeting. The Ordinance implements a new Stormwater Utility Fee effective January 1, 2020. This Ordinance also authorizes the Engineering and Public Works Director to develop a Stormwater Credit and Incentive Manual in order to promote efforts by property owners to utilize best management practices to reduce their burden on the storm sewer system.

Discussion

The draft manual contains two main components that are related to stormwater management and the stormwater utility program. Credits are recurring reductions through which a user can reduce their total stormwater fee by meeting on-site stormwater management criteria. Incentives, available to single family home properties, are one-time payments for stormwater related improvements on private property.

Incentive Program

The incentive program is similar to the *RainReady* program implemented in 2019, however, it will be administered by in-house staff instead of an outside consultant. The most significant difference between the two programs is *RainReady* provided homeowner assistance with evaluating properties and providing written reports summarizing options to implement stormwater management features. The proposed residential incentive program will shift the selection of stormwater management features to homeowners and the design to professionals they hire.

Highlights of the residential incentive program are as follows:

- Incentives for 50% of improvements up to \$1,300 include bioretention systems, underground infiltration systems, on-site storage systems, and porous pavement systems or permeable pavers
- Incentives for 50% of improvements up to \$5,000 include sump pump/foundation drain, downspout/roof drain, yard drain, and any other clean source disconnections
- Homeowners fill out an application and submit a permit for the improvements they intend to implement
- Applications are reviewed and approved by engineering staff in the order in which they are submitted
- Once the dollar amount of reimbursements reaches the budget amount for this program (\$70,000), a wait-list will be implemented until additional funds are appropriated
- Only new stormwater management features are eligible with the exception of permeable pavers and porous pavement. Previously installed pavers and porous pavement will be treated the same as new installations, provided that they are in certified working and maintained order

Credit Program

In the credit program, properties are eligible for up to a 50% reduction in utility fee if it doubles the volume of required detention as defined by the Metropolitan Water Reclamation District's Watershed Management Ordinance (WMO). For all other owners that exceed the total WMO detention requirement, credits will be awarded in proportion to the amount of detention exceeded (e.g., 1.5 times detention exceeded will result in a 25% credit).

Full Discharge Credit

All properties that demonstrated that stormwater runoff generated on their property discharges outside of the Village's stormwater system will be eligible for a 100% reduction of the Equivalent Runoff Unit cost (fixed charge will still apply).

Impervious Area Reduction Review

While the Credits and Incentives Program does not include sections outlining the process for reducing the measured impervious surface area, the Stormwater Utility Fee Ordinance does incorporate this process into the Village Code. As currently proposed, customers may submit an application to reduce their billed impervious area amounts. This would apply if there are changes in impervious area or if impervious surfaces on a parcel have a different area than reported.

Attachments

1. Draft Stormwater Credit and Incentive Manual

Village of Wilmette

Stormwater Credit and Incentive Manual

1. Introduction

The Village's stormwater system routinely surcharge during moderate rain events, resulting in widespread street and overland flooding. This flooding occurs due to inadequate capacity of the current storm sewer system to handle rain water from even moderate storms. During intense storms, the street flooding can, in the worst cases, extend to the foundation of a home. The Village Board recognizes the need to manage stormwater and maintain an infrastructure system to serve the community. The Department of Engineering and Public Works manages that system on behalf of the Village. The Village Board has decided that dedicated and consistent funding is required to improve the stormwater infrastructure system. For that reason, the Village is planning to establish a stormwater utility in 2020 with user fees to be used exclusively for funding stormwater management improvement projects and/or any related debt service for constructed and future stormwater management infrastructure.

One way to reduce flooding is to reduce the amount of runoff from property within the Village. On-site stormwater management on private property utilizing green infrastructure and best management practices can reduce stormwater runoff and pollution. For that reason, the Village would like to encourage property owners to make changes to their property in ways that will reduce the amount of rainfall that becomes runoff.

The Village is establishing a stormwater Credit and Incentive program to provide property owners with an opportunity to reduce their stormwater runoff. By reducing the properties impact on the stormwater system, property owners have the option to reduce their Stormwater Utility Fee and offset the costs of improvements. This manual describes the way property owners can exercise those options provided for in this manual.

Credits are a conditional, recurring reduction through which the user can reduce their total stormwater user fee by meeting on-site stormwater management criteria. Incentives are one-time disbursements for stormwater management improvements located on private property. Incentives and Credits are available to users as provided for in this manual.

2. Credit and Incentive Policies

The following sections provide policies regarding Incentives, Credits, and the general administration of the Village of Wilmette's Stormwater Utility Fee Credit program.

2.1 Single-Family Residential Stormwater Incentives

Single-family residential property owners are eligible for stormwater Incentives, which are funded by the Stormwater Utility Fee and administered by the Village.

Residents can apply for the Incentive program through an application from the Engineering Division located at the Village Hall. A limited number of Incentives are available each year. After the limit is

reached, eligible applicants may be placed on a waiting list for possible inclusion in a following year. Incentive applications are reviewed and approved or denied in the order in which they are applied for.

A permit(s) must be applied for and issued prior to the commencement of the installation of the eligible stormwater improvements. All stormwater improvements must be installed in accordance with the conditions of the permit approval and the requirements published in the Department of Engineering and Public Works Standards Handbook.

The following types of stormwater management features qualify for stormwater Incentives for 50% of the cost of implementation of the following, not to exceed \$1,300:

- Bioretention systems (rain gardens, bioswales, etc.);
- Underground infiltration systems (dry wells, infiltration trenches or basins, etc.);
- On-site storage systems (cisterns, rain barrels, etc.);
- Porous pavement systems or permeable pavers.

The following types of stormwater management features qualify for stormwater Incentives for 50% of the implementation of the following, not to exceed \$5,000:

- Sump pump/foundation drain disconnection and re-route;
- Downspout/roof drain disconnection and re-route;
- Yard drain disconnection and re-route;
- Any other clean source connection that is disconnected and re-routed.

2.1.1 Previously Installed Improvements

Property owners who have installed porous pavement systems or permeable pavers prior to the implementation of this Credit and Incentive Manual can also receive a one-time Prior-Installation Incentive subject to the amounts listed above. In order to qualify for this Incentive, a property owner (at their own expense) must provide documentation from a certified professional engineer registered in the State of Illinois certifying that the previously installed porous pavement system or permeable pavers have been maintained properly, the void spaces are not clogged with sediment, and the entire area is functioning effectively by infiltrating stormwater runoff. Such certification must be dated within one year of the date of the application.

2.2 Stormwater Credits

Property owners in the Village are eligible to apply for a credit of up to 50% of the respective Stormwater Utility Fee (excluding the fixed charge) if they exceed the total stormwater detention volume according to the methodology outlined in the [Metropolitan Water Reclamation District \(MWRD\) Watershed Management Ordinance \(WMO\)](#). Property owners will need to submit technical calculations to establish the amount of detention required onsite to meet the WMO stormwater management requirements. If the owner doubles the amount of detention volume required, the maximum allowable Credit of 50% will be awarded. For all other owners that exceed the total WMO detention requirement on a property, Credit will be awarded on a pro-rated amount of detention exceeded up to 50% of the Stormwater Utility Fee (excluding the fixed charge). Properties that are exempt from Site Detention Requirements by the MWRD due to development type and parcel size are eligible for a credit under this section if they provide a detention facility that exceeds the required volume according to the methodology outlined in the WMO.

To apply for the Credit, property owners should submit a copy of their approved WMO Permit Application (if applicable) to the Department of Engineering and Public Works, along with the technical calculations to demonstrate the amount of onsite detention that exceeds the stormwater management requirements. The technical calculations must be prepared and certified by a professional engineer registered in the State of Illinois.

Please visit the [Metropolitan Water Reclamation District's WMO site](#) for more details on [WMO Requirements for Stormwater Management](#) and [WMO Permit Application Forms](#).

2.2.1 Credit Determination

The Village shall process applications within sixty (60) days of submittal of a complete and correct application package. Billing adjustments for approved Credits shall be applied to the next regularly scheduled bill.

If a Credit application is denied, a letter explaining the reason(s) for such denial will be provided to the applicant. The applicant may address identified deficiencies in the denial, and resubmit a revised application. The applicant has the right to appeal this decision in accord with the procedures outlined in the Village Code.

2.2.2 Maintenance Required

All stormwater management facilities require maintenance to perform as designed. Stormwater detention facilities are required to be maintained as prescribed in the [MWRD Watershed Management Ordinance \(WMO\)](#). Proof of maintenance is required in the form of a certified professional engineer's report submitted to the Department of Engineering and Public Works. Failure to maintain stormwater management facilities will result in the loss of Stormwater Utility Fee Credits.

2.2.3 Term of Credit

The Stormwater Credit is valid for three (3) years. Property owners may renew a Stormwater Credit for an additional three (3) years upon the submission of a certified professional engineer's report demonstrating continued compliance with the WMO. Failure to renew and receive approval of the stormwater credit shall result in loss of the Stormwater Utility Fee Credits.

2.2.4 Suspended / Terminated Credits

If the requirements of this manual and/or the requirements of the approved permit are not met, the property owner will be notified and will have thirty (30) days to come into compliance before the Credit will be terminated. Once a Credit is terminated, a new complete application must be submitted and approved in order to restore the Credit.

2.3 Discharge Credit

A Credit of 100% will be available to all property owners who can demonstrate that their properties discharge all stormwater runoff outside the Village stormwater system. Partial discharge of stormwater outside the Village will not be considered. The Credit shall only apply to the Equivalent Runoff Unit fee calculation and not the fixed charge as provided for in Sec.26-340(a) of the Village Code.



Meeting Date: November 19, 2019

To: Municipal Services Committee

From: [Brigitte Ann Berger-Raish](#), P.E., Dir. of Eng and Public Works
[Dan Manis](#), P.E., Village Engineer

Subject: Green Infrastructure Grant

Recommendation

Provide staff direction on how to proceed with the Green Infrastructure grant from the Metropolitan Water Reclamation District of Greater Chicago (MWRD).

Background

The Village received a letter from MWRD (attachment 1) announcing award of a green infrastructure grant in the amount of \$60,000 to improve the Village Hall parking lot using green technology. The project descriptions and budget from the application is provided below.

Unlike federal road grants, MWRD does not assign a local share as a percentage of the overall project cost. Rather the MWRD grant covers just the incremental cost to build the project as “green” rather than conventional.

Village Hall Parking Lot

The Wilmette Village Hall Parking Lot Retrofit project will reconstruct the entire parking lot and replace the existing hot mix asphalt (HMA) pavement within the parking lot driving lanes with a permeable brick paver and concrete ribbon pavement cross section. The driving lane cross section will include detention volume within the



entire substructure. This change will increase storm water benefits by reducing storm water runoff rates, volumes and pollutant loads, while also restoring the natural hydrology at the project area. It will also allow for some underground storm water storage and attenuate the flow to the existing storm system that discharges into the combined system. This is a very high profile project for the area, and one that would be visible to the thousands of patrons who visit the Village Center on a regular basis.

Total Project Cost:	\$372,480
Village Lot Reconstruction including engineering, permitting and inspection services	
MWRD Grant Share	\$60,000
Village Share	\$312,480

Discussion

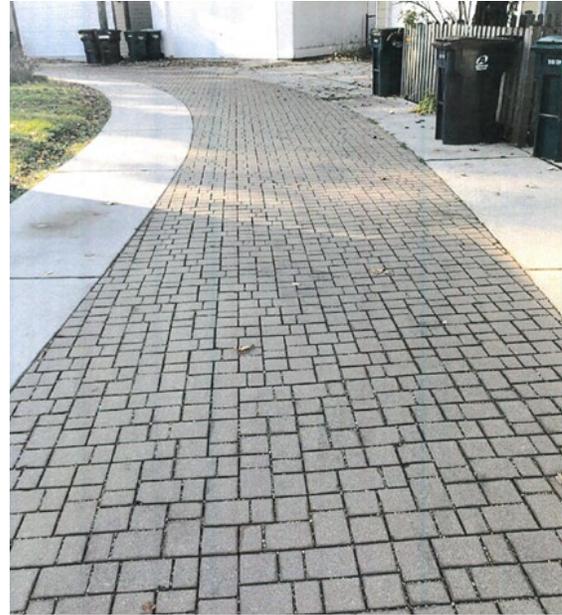
Consistent with the goals of the Greenest Region Compact and stormwater management best practices, staff is continually seeking opportunities to incorporate green infrastructure into project designs. The Village Hall parking lot was selected as a candidate for the MWRD grant because it has been in the Capital Improvement Program (CIP) for several years and is at the end of its useful life and in need of rehabilitation. By adding permeable bricks and stone storage, there is an opportunity to convert a conventional parking lot into a green lot that will protect and enhance natural processes by reducing pollutants and downstream flooding.

The two challenges with this grant, however, are maintenance of the permeable brick and the cost of reconstructing the parking lot.

Paver Maintenance: Green Alley vs Green Parking Lot

In 2015, the Village received a similar MWRD grant to build four green alleys. The alleys were built in residential areas and designed with a permeable paver “strip” down the center of the alleys and flanked by concrete. The permeable pavers allow stormwater runoff to infiltrate through the surface into a stone base underneath the pavers, thus reducing the burden on the combined sewer system.

The design for the Village Hall parking lot would be based on the same design of the residential alleys. The difference is the stormwater runoff draining to the center of the parking lot is contained by curb and gutter while much of the green alley runoff includes yard drainage with silt and other debris that can accumulate and block the permeable openings. In addition, the alleys are frequently used by contractors, particularly landscapers, for storage of material, which results in debris in the alley. While the permit process includes controls to protect the green alleys, it has been challenging managing the impacts.



If the Municipal Services Committee desires to build a green parking lot at Village Hall, it is likely that the maintenance impact will be less than the green alleys. To ensure maximum performance, Public Works will sweep the parking lot at least quarterly and perform more intense cleaning in spring and fall.

Reconstruction vs Resurface

The parking spots are generally in much better condition than the center of the lot, so staff recommends resurfacing only. Resurfacing versus reconstructing the parking spaces will save the Village approximately \$69,000. If the Village chooses to accept the grant, the center drive aisles would be required to be reconstructed because this area is providing the volume of stone storage underneath the pavers.

Assuming resurfacing the parking areas, a summary of the project costs is as follows:

Parking Lot Section	Square Footage	Unit Price	Total
Center drive aisles-reconstruction	7,800	\$23	\$179,400
Parking stalls- resurfacing	9,840	\$5	\$49,200
Subtotal			\$228,600
Design engineering /survey/testing			\$34,300
MWRD Grant Contribution			(\$60,000)
Village Share			\$202,900

The Village could also decide to forego the grant and resurface the lot for a cost of between \$90,000 and \$120,000 as part of a future budget.

Schedule

The Village Hall parking lot improvements are not in the 2020 budget. MWRD confirmed that the Village could program and build the project in 2021, if the decision is made to move forward with the grant.