

AGENDA
SPECIAL PUBLIC WORKS & UTILITIES COMMITTEE
Village of Hoffman Estates
September 9, 2019

Immediately Following Transportation and Road Improvement Committee

Members:	Anna Newell, Chairperson	Gary G. Stanton, Trustee
	Michael Gaeta, Vice Chairperson	Karen J. Arnet, Trustee
	Gary Pilafas, Trustee	William McLeod, Mayor
	Karen V. Mills, Trustee	

I. Roll Call

NEW BUSINESS

1. Request approval of the locations for the 2019 Drainage Improvement Project and discussion of the Village Drainage Policy.

II. Adjournment

(Further details and information can be found in the agenda packet attached hereto and incorporated herein and can also be viewed online at www.hoffmanestates.org and/or in person in the Village Clerk's office).

The Village of Hoffman Estates complies with the Americans with Disabilities Act (ADA). For accessibility assistance call the ADA Coordinator at 847/882-9100.

**COMMITTEE AGENDA ITEM
VILLAGE OF HOFFMAN ESTATES**

SUBJECT: Request approval of the locations for the 2019 Drainage Improvement Project and discussion of the Village Drainage Policy

MEETING DATE: September 9, 2019

COMMITTEE: Special Public Works & Utilities

FROM: Alan Wenderski

PURPOSE: Request approval of the locations for the 2019 Drainage Improvement Project and discussion of the Village Drainage Policy.

BACKGROUND: In 1992, the Village first adopted a Drainage Policy and implemented the first annual drainage improvement project to correct drainage problems in the right-of-way and on private property, when warranted, that affect the right-of-way. Past projects have typically corrected right-of-way drainage issues, such as icing conditions on the sidewalk or in the street. The drainage policy provides criteria to discern between Village and private drainage concerns. Historically, annual drainage projects typically have addressed two to four locations with a budget of \$25,000-\$60,000.

DISCUSSION: *Drainage Policy*
The attached Drainage Policy was last revised in April 2016 and approved by the Village Board in June 2016.

The policy provides guidelines and a framework for discussions with residents during drainage investigations and general inquiries. This policy distinguishes between projects that qualify for public funding versus those that are the responsibility of the private property owner. In general, drainage improvements within the right-of-way are Village responsibility while most private property drainage issues are the responsibility of the property owner.

No changes are recommended to the current drainage policy.

Future Drainage Improvement Locations
A current list of drainage improvement locations identified by Village staff is attached. The attached list is prioritized based on the criteria of the current policy. As new qualified drainage problems

DISCUSSION: (Continued)

are identified they are added to the list, prioritized, and included in the annual drainage project (or other area project) as funding allows.

All of these locations have previously been confirmed by the Transportation and Engineering Division or the Public Works Department as problem areas that meet the criteria listed in the drainage policy set by the Village. Staff recommends the inclusion of project Locations 1 and 2 (highlighted in yellow on the attached list) for the 2019 Drainage Improvement Project. These locations were determined to be the highest priorities within the available budget. Design has been completed for these locations and the project would be scheduled to be bid and completed this fall following Village Board approval of a construction contract.

A Stormwater Committee meeting has not yet been held this year due to lack of quorum, however the recommended locations were provided to committee members for review and no comments were received.

The current budgeted amount for Drainage Improvements is \$50,000, while the preliminary cost estimates for Locations 1 and 2 total \$45,000. It is not recommended to add any additional locations as the cost estimates are preliminary so some contingency is preferred.

FINANCIAL IMPACT:

The preliminary cost estimates for Locations 1 and 2 total \$45,000. The proposed project locations are estimated to be completed within the \$50,000 budgeted in the Stormwater Management Fund for Drainage Improvements.

RECOMMENDATION:

Request approval of two locations for the 2019 Drainage Improvement Project.

Attachments

**Village of Hoffman Estates
Drainage Policy
Revised April 2016**

The Village originally adopted the Annual Drainage Improvement Project to correct drainage problems in the right-of-way (ROW) or locations on private property that meet the strict criteria listed below. The priority for projects that meet the criteria shall be as follow:

1. Specific drainage issue that causes property damage
2. Number of properties affected
3. Severity of icing/standing water

It is noted that standing water is not considered a problem unless it exists for longer than a 24-hour period after a rain event.

The drainage criteria for inclusion in the annual Drainage Improvement Project are:

1. Drainage problems caused by deficiencies in the public right-of-way drainage systems.
2. Drainage/icing problems within the right-of-way that are caused by excessive offsite run-off.
3. Drainage problems within the right-of-way that cannot be resolved with minor grading between the sidewalk and curb due to "back-pitched" conditions. Parkway heaving is common and can usually be addressed by minor regrading which is considered routine maintenance. If it is determined that there is the ability to grade between the sidewalk and the street to resolve the problem then the adjacent property owner is responsible.
4. Drainage problems that result from inherent design problems that were not fully resolved by the developer before final acceptance of a new development. The issues shall be identified within 5 years of subdivision acceptance and cannot be the result of changes to the property by the homeowner.

Maintenance responsibilities for the special circumstances in Parcel A (South of Golf, North of Higgins, East of Roselle) are described below:

1. Roadside swales in Parcel A will be maintained as part of the public drainage system. Any shoreline stabilization on private property such as along the creek in Parcel A is the responsibility of the adjacent property owner. Technical advice is available from the Village to assist the residents with stabilization methods.
2. There shall be no filling of any roadside swales in Parcel A. The Parcel A roadside swales hold considerable water during heavy rain events and compensate for the lack of detention in this subdivision. Filling in the roadside swales could cause flooding in this subdivision.
3. All routine maintenance of the driveway culverts in Parcel A is the responsibility of the homeowner and includes repairs, patching, cleaning and replacement. Since Parcel A is unique within the Village with driveway culverts, the Village provides a new driveway culvert pipe when the old pipe is replaced by the resident or their contractor. If driveway culvert replacement is necessary as part of a roadside ditch improvement project, then the Village will replace the culvert.

Drainage problems are typically identified through drainage investigations by the Transportation and Engineering Division when brought to our attention by residents. The Transportation and Engineering Division will provide technical guidance in solving private property drainage issues. In general, solutions to these drainage problems usually involve regrading and/or installation of storm sewers or pipe underdrains. It is noted that all private or backyard storm sewers or drain tiles must connect to a Village storm sewer. Private backyard drains must not discharge at the sidewalk, curb, or near the property line. If a Village storm sewer is not available, only systems deemed to not cause public nuisance will be approved by permit from the Village Engineer

The Drainage Improvement Policy will continue to be reviewed annually and updated as necessary.

Drainage Project Locations

Aug-19

PRIORITY	LOCATION	INITIAL DATE	DESCRIPTION	SOLUTION	COST	STATUS
1	1105 Aspen Street	2016	Low area in backyard with multiple upstream lots. Significant ponding occurs that affects four adjacent properties. Drainage issue cannot be adequately solved within the limits of 1105 Aspen Street's property only.	Install rear yard storm inlet at 1105 Aspen Street and install storm sewer to outlet in swale at 1085 Aspen Street.	\$30,000	Staff recommends to be included in 2019 project
2	1623 Acorn Drive	2011	Offsite flow from upstream unincorporated area causing frequent erosion prior to entering rear yard swale and storm sewer	Install rear yard storm inlet to capture offsite flow and connect to nearby storm sewer system.	\$15,000	Staff recommends to be included in 2019 project
3	3635 Winston Drive	2014	Intersection of Winston Drive and Firestone Drive is a low area without a sufficient overland flow. Side yard of 3635 and 3655 designed as overflow route but garage of 3635 is at a lower elevation.	Installation of additional redundant inlets in street to allow for maximum use of pipe and protect against debris blockage. Upsizing of downstream pipe considered as part of larger scale improvement.	\$30,000	Cost estimate includes installation of redundant inlets in street only.
4	Evergreen Lake	2013	Siltation from inflow pipe to pond.	Install new catch basin and re-align inflow pipe to pond.	\$30,000	
5	655 Hillcrest Boulevard	2018	Low spot in roadway with frequent ponding and overland flow. Overland flow path is between 655 and 665 Hillcrest and is very close to homes.	Install redundant storm inlets in low area to reduce overland flow occasions due to storm grate obstructions.	\$6,000	Inlet frame & grate modification completed by Public Works. Monitoring conditions.
6	4075 N. Victoria Drive	2019	Standing water and icing on sidewalk along Harrison Lane frontage. Runoff from multiple upstream lots contribute.	Grading of sidewalk, parkway, and installation of pipe underdrain.	\$12,000	Monitoring during winter for severity of icing conditions.
7	1665/1655 Westbury Drive	2018	Standing water and icing on sidewalk due to runoff from upstream lots and low area in sidewalk.	Grading of sidewalk, parkway, and installation of pipe underdrain.	\$7,000	Monitoring during winter for severity of icing conditions.
8	200 Carthage Lane	2016	Sidewalk lower than street across most of lot. Water in garage in many heavy rains events, run-off from ROW contributing.	Replace dipped sidewalk, new apron, grade parkway to create slope from sidewalk to street. Lower street profile and install additional storm sewer.	\$30,000	Minor curb & gutter and apron improvements completed in 2017. Remainder of improvements to be completed with future street reconstruction
TOTAL LIST COST					\$160,000	
TOTAL UNCOMPLETED PER 2019 RECOMMENDATIONS					\$115,000	