

Department of Engineering

# CITY OF MIDDLEBURG HEIGHTS

15700 Bagley Road • Middleburg Heights, Ohio 44130

Matthew J. Castelli  
Mayor

Michael Mackay  
City Engineer



## MIDDLEBURG HEIGHTS FLOODING ISSUES JUNE 14, 2021

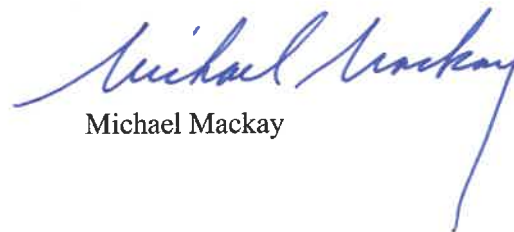
Localized Flooding Areas – The City administration has decided to begin planning and to determine possible funding sources for the following projects:  
Newton/Elmdale – begin planning and determine possible funding sources.  
Indian Creek – funding was approved by OPWC for a no interest loan for 50% of the project cost. We will be sending a proposal to the City for the design of this project.  
Elderdale/Farnum – determine possible funding sources.

Old Pleasant Valley/Shawnee. - The County has cleaned the rear yard storm sewer again this year. Additionally, the construction of Big Creek Detention Basin No. 2 should also improve the flow through this sewer.

City Hall Detention – This project is ready for bidding once it is approved by Council.

Big Creek Detention Basins – Currently performing surveying, engineering and wetlands permitting for Basin Nos. 2 & 3.  
- Continue to pursue acquisition of land for Basin No 1.  
- Preliminary schedule for Basin Nos. 2 & 3 is attached.

First Avenue – This project by Terrace Construction is completed except for restoration.

  
Michael Mackay

CITY OF MIDDLEBURG HEIGHTS  
 BIG CREEK / PEARL BASINS  
 (ABRAMS CREEK BASINS '3' AND '2')  
 PRELIMINARY SCHEDULE

TASK	NOV. 2020	DEC. 2020	JAN. 2021	FEB. 2021	MAR. 2021	APR. 2021	MAY 2021	JUN. 2021	JUL. 2021	AUG. 2021	SEP. 2021	OCT. 2021	NOV. 2021	DEC. 2021	JAN. 2022	FEB. 2022	MAR. 2022	APR. 2022	MAY 2022	JUN. 2022	JUL. 2022	AUG. 2022	SEP. 2022	OCT. 2022	NOV. 2022	DEC. 2022			
<b>BASIN '3' INDIVIDUAL PERMIT</b>																													
BASIN '3' PROPERTIES ACQUIRED																													
BASIN '3' FIELD WORK																													
BASIN '3' 30% DESIGN																													
BASIN '3' 30% REVIEW NEORS																													
BASIN '3' 90% DESIGN																													
BASIN '3' 90% REVIEW NEORS																													
BASIN '3' BIDDING & AWARD																													
BASIN '3' CONSTRUCTION'																													
BASIN '3' WETLANDS - ADD'L LAND																													
BASIN '3' INDIVIDUAL PERMIT																													
BAT SURVEY (VALID FOR 5 YEARS)																													
<b>BASIN '2' INDIVIDUAL PERMIT</b>																													
BASIN '2' PROPERTIES ACQUIRED																													
BASIN '2' FIELD WORK																													
BASIN '2' 30% DESIGN																													
BASIN '2' 30% REVIEW NEORS																													
BASIN '2' 90% DESIGN																													
BASIN '2' 90% REVIEW NEORS																													
BASIN '2' BIDDING & AWARD																													
BASIN '2' CONSTRUCTION'																													
BASIN '2' WETLANDS - ADD'L LAND																													
BASIN '2' INDIVIDUAL PERMIT																													
CLEARING PROHIBITED WITHOUT A BAT SURVEY																													

# CITY OF MIDDLEBURG HEIGHTS

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## MEMO

TO: Mayor Castelli  
Council

CC: Jim Herron  
Richard Halishak  
Kim Kerber

FROM: Michael Mackay

DATE: June 14, 2021

RE: 2020 FLOODING INVESTIGATION

The following is an update of the City's plan of action in connection with the three rainfalls (March 29, May 15 and September 7, 2020) that resulted in flooding in the City.

1.0 INDIVIDUAL HOME DIAGNOSTICS (Due to COVID restrictions, our ability to see homes with flooding issues has been severely restricted and accordingly there are only minor updates to the home diagnostics. We expect these flooding investigations to get back on track now that the COVID restrictions are lessening.)

Mackay Engineering is maintaining a spreadsheet and a file for each homeowner that has reported flooding to the City. Our current spreadsheet has about 177 homeowners who have reported flooding from these past three storms. Each resident that has reported flooding to the City (and for whom we have a telephone number) has been called by Rick Halishak, our resident flooding specialist, and he is meeting with the residents to discuss their flooding issues and make recommendations to the homeowners.

Approximately 123 residents have been called or visited by Rick Halishak to date. Additionally Rick Halishak has made site visits with City personnel involving issues that affect an additional approximately twelve residents. Additionally several residents have been removed from the list, at their request, and several residents have not responded to several requests for information. Each resident that has been visited will be or has been provided with a flooding investigation report that will detail the advice provided to the homeowner.

## 2.0 LOCALIZED FLOOD AREAS

Mackay has worked with R2O and the City on the four chronic flooding areas discussed below. We are also working with the City to determine possible funding sources for the these projects.

Newton/Elmdale – determine possible funding sources.

Indian Creek – funding was approved by OPWC for a no interest loan for 50% of the project cost. We will be sending a proposal to the City for the design of this project.

Elderdale/Farnum – determine possible funding sources.

The Old Pleasant Valley/Shawnee area will be studied as part of the design of Big Creek Parkway Basin No. 2. We feel the installation of this detention basin should benefit this area and the design of this basin will help us to determine the extent of the benefit. Additionally, the rear yard sewer is scheduled to be inspected and cleaned by the County each year.

## 3.0 BIG CREEK PARKWAY DETENTION BASINS

Please see the attached preliminary schedule for construction of Basin Nos. 2 & 3.

## 4.0 ADDITIONAL FLOODING AREAS

The following areas of general surface flooding have been or are being investigated by Mackay and the City.

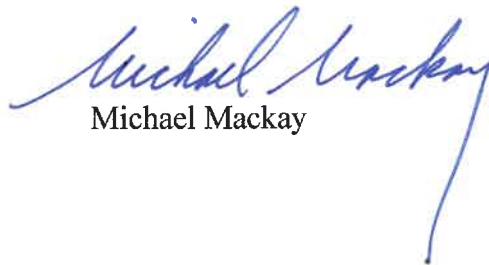
4.1 Revere Circle  
No further action at this time.

4.2 Ragall Parkway  
No further action at this time.

4.3 Craigmere  
The City is investigating whether it is feasible to add another outlet from the Craigmere area to the existing ditch near the railroad tracks.

4.4 Grant  
The City will continue to monitor and clean the flow restrictors that were installed on the catch basins in this area. The City will also request the County to film and clean any sewers in this area that are not functioning properly.

- 4.5 Fry Road  
Two areas need swales/ditches installed or cleaned in order to provide better yard drainage. The City will need to obtain permission from the landowners prior to any work.
- 4.6 Bagley Road  
The City will have the County film and clean pipes that are draining rear yards and which do not appear to be functioning properly since the Bagley Road widening.
- 4.7 Pine Valley Apartments  
No further action required at this time.
- 4.8 First Avenue  
The project is being completed by Terrace Construction.
- 4.9 City Hall Park Detention Basin  
This project is ready for bidding once it is approved by City Council.



Michael Mackay

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