

CITY OF GROVE CITY, OHIO
COUNCIL MINUTES

October 18, 2021

Regular Meeting

The regular meeting of Council was called to order by President Houk at 7:00 p.m. in the Council Chambers, City Hall – 4035 Broadway.

Roll was called and the following members were present:

Roby Schottke Aaron Schlabach Christine Houk Randy Holt Ted Berry

1. Mr. Schlabach moved to dispense with the reading of the minutes from the previous meeting and approve as written; seconded by Mr. Schottke.

Mr. Schottke	Yes
Mr. Schlabach	Yes
Ms. Houk	Yes
Mr. Holt	Yes
Mr. Berry	Yes

2. The Chair read the agenda items and they were approved by unanimous consent.

The Chair recognized Mr. Schottke, Chairman of Lands, for discussion and voting under said Committee.

1. Ordinance C-57-21 (Authorizing the Appropriation of Property and Easements from Multiple Properties for the Public Purpose of Making, Repairing, and Improving a Public Road, specifically, the Demorest Road Corridor Improvement Project) was given its second reading and public hearing.

Mr. Smith, Dir. of Law, explained that he has been negotiating with about 25 property owners. He has settled with 15, in principal. He said he has six (6) signed and in-hand. He thinks there will be one (1) that will need to be filed on because they want three times the appraised value and there is not negotiating. He said he will keep trying with all the outstanding owners. He explained that this ordinance allows the City to file with the Court against unwilling property owners and place the appraised value on file, so the project can move forward. He said the amount will be decided by the Court.

Ms. Houk said Mr & Mrs. Hanson are attending on-line and asked if Mr. Smith was just talking about property owners on Demorest Road, or if that included those on Grove City Road. They have not heard from anyone. Mr. Smith said he did speak with them a while back, but they did speak with Ms. Kelly today and he owes them a call back. He said he would get to them tomorrow.

Mr. Schlabach said he does believe that Demorest Road needs widening and all the water/sewer improvements made. He just has a hang up about eminent domain. Mr. Smith said he is doing everything he can to avoid filing on anyone. He said sometimes you just need a court to decide the amount because the two parties just cannot agree.

There being no additional questions or comments, Mr. Schottke moved it be approved; seconded by Ms. Houk.

Mr. Schlabach	No
Ms. Houk	Yes
Mr. Holt	Yes
Mr. Berry	Yes
Mr. Schottke	Yes

2. Ordinance C-62-21 (Accept the Plat of Pinnacle Quarry, Section 2 located south of White Road) was given its first reading. Second reading and public hearing will be held 11/01/21.
3. Resolution CR-55-21 (Approve the Development Plan for Beulah Park, Subarea C) was given its reading and public hearing.

Mr. Kyle Rauch, Dir. of Dev., explained that this project has a deviation from the Zoning Text to allow for a 1% difference of the garage coverage. He explained that Staff was supportive of this and is no different than what has been permitted for Pulte in other areas.

Mr. Schottke explained that the Developer has submitted new elevations and moved that the elevation pages be replaced with those dated 10/18/21; seconded by Mr. Schlabach.

Mr. Berry asked why we are dealing with elevations. Mr. Rauch explained that the Zoning Text requires approval of elevations. He said these were approved for Subarea D & E, so they tried to limit the type of elevations to help differentiate it from other areas. Mr. Berry asked if these would have to go through the approval of the Architectural Review Board. Mr. Rauch said the only lots that have to go through the ARB are those that front the park. Mr. Berry asked which elevations are being considered. Ms. Kelly showed each set of elevations and what is included and what will not be permitted. Mr. Pat Kelley, owner, explained that they requested the upgraded models, after Planning Commission had made their recommendation. Ms. Rebecca Mott, attorney for petitioner, further clarified the requested changes to the elevations.

There being no further questions, Ms. Kelly called the roll for the vote on the motion to amend:

Ms. Houk	Yes
Mr. Holt	Yes
Mr. Berry	Yes
Mr. Schottke	Yes
Mr. Schlabach	Yes

Ms. Rebecca Mott continued to explain the 13 lots in the Development Plan. She said they are in substantial compliance with the Zoning Text, except the garage base width, which is 46% instead of the required 45%. She said these lots back up to the commercial area and act as a transition to the custom lots across the street. She said Mr. Kelley is reviewing these elevations against the Architectural Review Standards, even though it is not required, to keep a high standard for the entire development.

Mr. Berry asked if the lots on the south side of Cassidy Dr. would be custom homes or another tract builder. Ms. Mott said those lots are not part of roads B & C and do not front the park. They would not be required to be custom homes. She said they have no application or knowledge for that portion at this time. Mr. Berry asked about condos coming further south on Rose Lane. Ms. Mott said she has no application or knowledge about that at this time.

Ms. Houk said she asked if these 13 lots are part of the 84 lots which what is part of The Paddock. Ms. Mott said she believes so. Ms. Houk said she is looking at the marketing material, and she

understands that Council's role is to strictly look at the zoning text. She said the marketing materials show 84 custom homes in the Paddock area. She said if she is a person who has made an investment in a property in this area, she understands how that person might be get confused with these production homes. She said if this is the path that we are going down, she thinks we have to stop it at this buffer. What Council has committed to and what is being marketed to the community says custom homes and she feels a responsibility to those customers. Mr. Kelley, owner, said he appreciates Ms. Houk's concern. He said "custom" is a pretty vague term. He said, as the developer, they review every lot in this section. He said he is not apologetic for Pulte Homes. They have customized these homes to all have basements and have invested in the design.

Mr. Ed Ritterbeck, resident at Beulah Park Dr., shared his great concerns over this development plan. He said their marketing brochure states "84 custom home lots". He said they paid a premium for their lot and had many discussions with MR. Kelley and the realtor, Mr. Pompeii. He said he has taped conversations where MR. Kelley told them he did not want Pulte in this area. It is for custom homes and he didn't care if it took 20 years to develop. Mr. Ritterbeck said they have heard that Epcon wants to buy lots on Rose Lane. He said once we open this door, there is nothing to protect the value of his property. He noted that there are already two (2) Abbeyville homes in the subdivision. He said a basement is not custom. This is not distinguishable from the street and people will only see these Pulte (Abbeyville) homes in the custom area. He said he was marketed a lot that was to be strictly custom homes. Now, they are deviating from that and selling off chunks. He said he should have just built in the Pulte section. He said they paid a premium for something different and feel he is getting something else.

Mr. Berry said he shares Mr. Ritterbeck's concerns and not what was wanted in this area.

Mr. Kelley said they have raised the prices of the lots around Mr. Ritterbeck. He said they are not doing anything to detract or reduce the value of his home. He said these 13 lots are 25% less because they back up to commercial. He said it aligns with their vision from the beginning.

Mr. Schlabach stated that it is not Council's job to focus on a 3rd party marketing plan. It is to apply the Zoning Text to the development and they must be consistent in applying the law.

Ms. Houk commented that their decision today is whether this plan is in alignment with the zoning text but it is also important that everyone have accurate information. In looking at the marketing information, she would also believe that all 84 lots are to be custom lots. She said she feels they can address both tonight.

Mr. Schottke stated that the Pinnacle development has the same type of transitional homes from custom to track homes. He feels this is the same.

There being no additional questions or comments, Mr. Schottke moved it be approved; seconded by Ms. Houk.

Mr. Holt	No
Mr. Berry	Yes
Mr. Schottke	Yes
Mr. Schlabach	Yes
Ms. Houk	Yes

The Chair recognized Mr. Berry, Chairman of Service, for discussion and voting under said Committee.

1. Ordinance C-58-21 (Authorize the Director of Public Service to enter into a Franchise Agreement with Local Waste Services, LLC for Solid Waste, Recycling and Yard Waste Collection, Transportation and Disposal) was given its second reading and public hearing.

Mr. Smith, Dir. of Law, explained that this is part of the bid for waste hauling and recycling processing. He said this is a five (5) year contract. Mr. Boso, City Admin., explained that we belong to a consortium with six (6) jurisdictions. The current rate is \$14.17/mo. and will jump to \$19.99/mo. – an increase of \$5.29. The bid did provide for a senior discount for those 60 years and over of 10%.

There being no additional questions or comments, Mr. Berry moved it be approved; seconded by Mr. Holt.

Mr. Berry	Yes
Mr. Schottke	Yes
Mr. Schlabach	Yes
Ms. Houk	Yes
Mr. Holt	Yes

2. Ordinance C-59-21 (Authorize the Director of Public Service to enter into an Agreement with Rumpke of Ohio, Inc. for Acceptance and Processing of Recyclable Materials) was given its second reading and public hearing.

Mr. Smith stated that this is the same as above. He said this is interesting in that this does not get paid by the residents and there is a provision that if the recycling materials exceed the tipping fees, the City will receive money back. He said it hasn't happened yet, but has been told we are getting close.

There being no additional questions or comments, Mr. Berry moved it be approved; seconded by Mr. Schottke.

Mr. Schottke	Yes
Mr. Schlabach	Yes
Ms. Houk	Yes
Mr. Holt	Yes
Mr. Berry	Yes

The Chair recognized Mr. Holt, Chairman of Finance, for discussion and voting under said Committee.

1. Ordinance C-63-21 (Appropriate \$110,000.00 from the Convention Bureau Fund for Current Expenses) was given its first reading. Second reading and public hearing will be held on 11/01/21.
2. Ordinance C-64-21 (Appropriate \$75,000.00 from the Scioto Township Joint Economic Development District Fund for the Current Expense of making payments in accordance with the JEDD Contract) was given its first reading. Second reading and public hearing will be held on 11/01/21.
3. Resolution CR-56-21 (Authorize the City Administrator to apply for and Accept Funds through the USDA Forest Service Urban & Community Forestry Program to Restore the Urban Canopy lost from insects, disease and weather) was given its reading and public hearing.

Mr. Holt explained that this is a matching grant of up to \$25,000.00 to restore the City's tree canopy.

There being no additional questions or comments, Mr. Holt moved it be approved; seconded by Mr. Schlabach.

Mr. Schlabach	Yes
Ms. Houk	Yes
Mr. Holt	Yes
Mr. Berry	Yes
Mr. Schottke	Yes

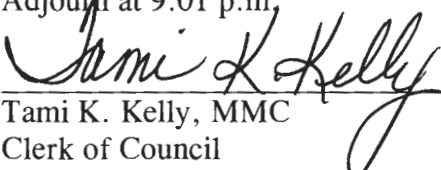
The Chair asked that any new business to be brought before the attention of Council be done so at this time.

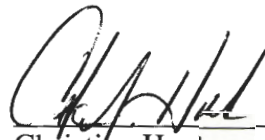
1. Mr. Mike Keller, EMH&T, along with staff members Matt Stechschulte & Miles Hebert presented the Stormwater Modeling report. They provided an overview of the West Water Run and Grove City Creek stormwater evaluation and their recommendations. The area focused on the oldest area in Grove City, west of Broadway and a few other areas east of Broadway. Mr. Keller explained that the City does very well with their maintenance program. Council clarified some issues during the presentation. One of the recommendations was to install a retention pond along Grove City Road, which they believe will eliminate most of the flooding west of Broadway and the area that crosses over Broadway. Mr. Boso, City Admin., asked if there is any property flooding in this area. Mr. Keller said no. Mr. Boso stated that looking at page 29, this recommendation would only remove water from streets and not structures.

The Chair recognized members of Administration and Council for closing comments.

1. After comments from Council and Administrative staff members, a motion to adjourn was approved by unanimous consent.

Adjourn at 9:01 p.m.


Tami K. Kelly, MMC
Clerk of Council


Christine Houk
Chair

CITY OF GROVE CITY, OHIO
COUNCIL CAUCUS NOTES

Oct. 18, 2021

Council met at 6:30 p.m. in the Council Chambers, City Hall, 4035 Broadway.

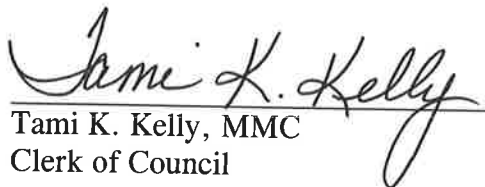
Council Members reviewed the Agenda items.

Mr. Nick Soltice, GIS Coordinator, presented a slideshow of the Ward population figures, using the Census Block counts. He explained the process for overlaying the Blocks onto the Ward Map and shared figures showing the Wards well within the required 40% difference between largest (Ward 4 = 26.02%) and smallest (Ward 2 = 23.97%). By unanimous consent, Council declared that no change is required in the Ward Map, according to Section 7.03 of the Charter.

Ms. Houk asked about the Liquor Permit for Cracker Barrel. Ms. Kelly, Clerk of Council, explained that Council approved a D-1 & 2 permit for Cracker Barrel in August. This permit is for a Restaurant and the Safety Department has no objections. There being no questions, Council does not request a hearing for this permit.

Ms. Houk asked about the appointment for the Audit Committee. Ms. Kelly stated that a resume from Mr. Michael Farnsworth is in Council's packet for consideration, who is very interested in serving on the Audit Committee and the Tax Review Board - which were recently vacated by Mr. Merth. She asked Council to let her know if they would like to proceed with appointing Mr. Farnsworth.

Council retired to the Chambers to begin the Regular meeting.


Tami K. Kelly, MMC
Clerk of Council


Christine Houk
Chair



West Water Run and Grove City Creek Stormwater Evaluation and Recommendations

October 18, 2021

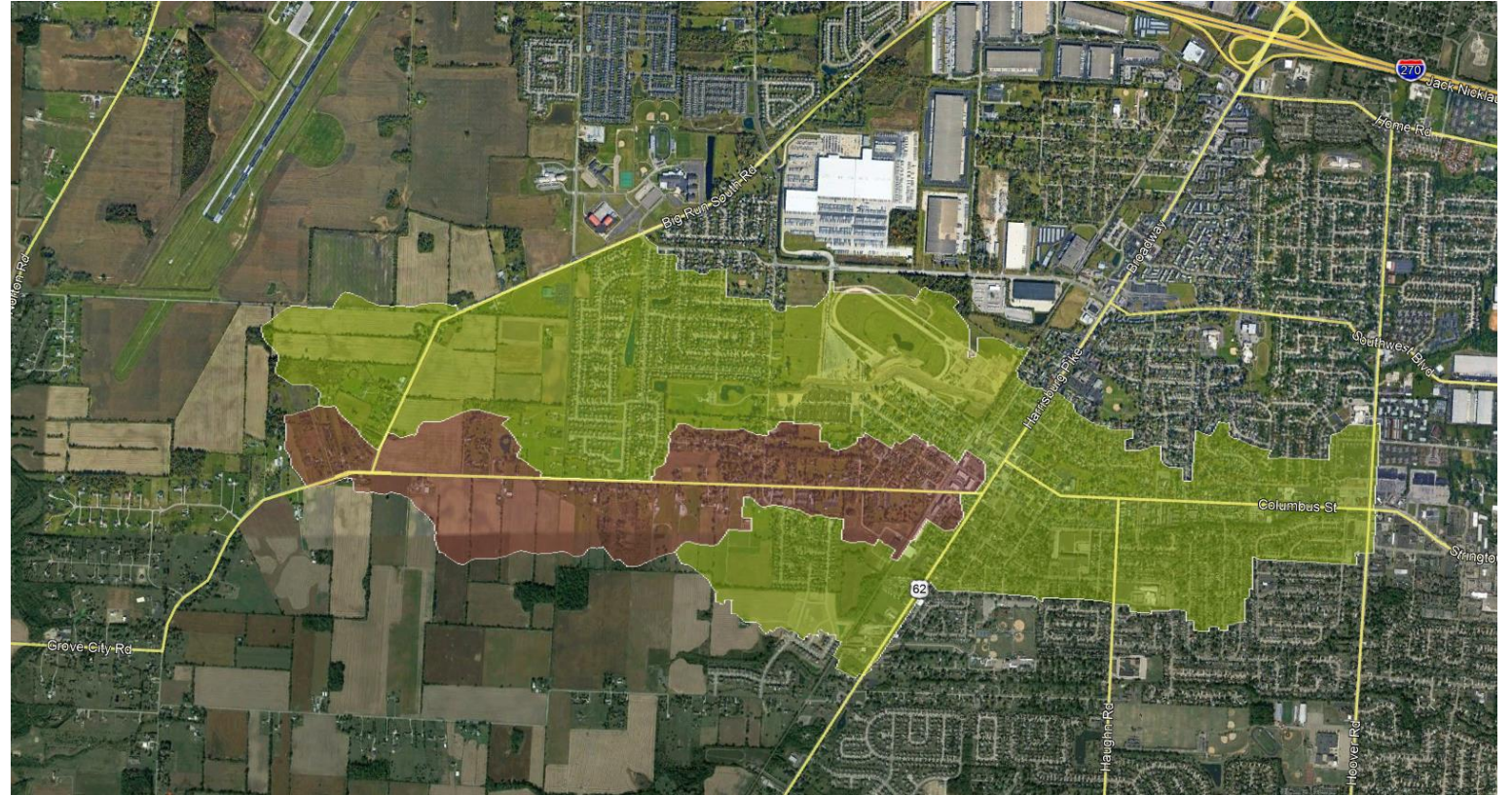


Objectives

- Evaluate stormwater drainage, flood routing, and street flooding that has been observed within the Study Area
- Characterize:
 - observed rain events
 - performance of the stormwater collection system
 - flood routing (stream and within streets)
 - observed and modeled flooding
- Define causes and prioritize observed flooding
- Provide recommendations (local and regional) to remediate areas where infrastructure may be deficient to current operational design parameters

Study Area

- “Old Grove City” neighborhoods west of Hoover Road
- Within the Grove City Creek and West Water Run watersheds
- Approximately 3.8 square mile drainage area



City's Active Stormwater Investments

GENERAL MAINTENANCE

The City has an active preventative maintenance program to optimize the performance of the storm drainage system and sanitary sewer collection systems. The following is a summary of these annual activities:

MAINTNANCE ACTIVITY	
APPROXIMATE ANNUAL INVESTMENT	
Sewer Cleaning and Inspection	\$75,000
Storm Catch Basin Cleaning	Completed with In-house Staff
Storm Catch Basin Rehabilitation	\$68,000
Annual Root Control	\$20,000
Stream Maintenance	\$30,000
Roadside Ditch Maintenance	\$10,000
Lift Station Repair/Maintenance	\$25,000
<u>Sanitary Backflow Preventer</u>	<u>\$200,000</u>

Approximately \$428,000 Annually



City's Investment into Sanitary and Stormwater Systems

Since 2000 the City has completed the following major stormwater improvement projects:

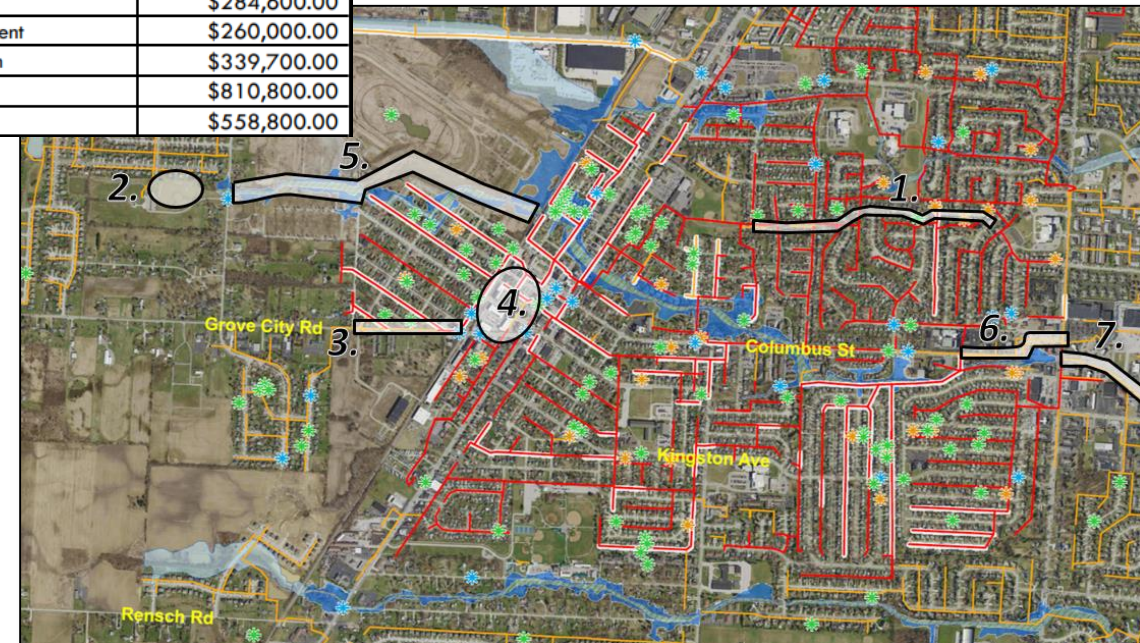
- Dennis Lane Storm Sewer
- Breck Park Stormwater Retention Pond
- West Water Run Restoration
- Grove City Road Improvements with new 48-inch storm trunk sewer

Managing Development - The City has a stormwater management policy that applies to new development and redevelopment projects, such as the Beulah Park subdivision, Brookpark Middle School, and Town Center projects.

Year	Project Name	Project Cost
2000	Dennis Lane Storm Sewer	\$1,185,800.00
2000	Sanitary Sewer Rehabilitation	\$215,600.00
2002	Grove City Sanitary Rehabilitation Ph II	\$244,200.00
2003	Sanitary Sewer Rehabilitation-2003	\$143,000.00
2003	Patzer Ave. Storm Sewer Repair	\$38,500.00
2005	Columbus Street Sanitary Relief Sewer (Sanitary)	\$349,800.00
2006	The Groves Sewer Rehabilitation - Ph 1	\$181,500.00
2006	Demorest Park Drainage Improvements	\$39,600.00
2006	Demorest Park Drainage Improvements	\$550,000.00
2007	The Groves Rehabilitation, Phase 2	\$240,000.00
2007	The Grove Rehabilitation (CCTV)	\$45,000.00
2007	SR 665 18" Sanitary Sewer Extension	\$174,800.00
2008	Groves Sanitary Rehabilitation Phase 3	\$355,000.00
2008	Orchard/Lotz Sewer System Evaluation	\$403,200.00
2008	Haughn Rd Area Sanitary Sewer Rehab PH 1	\$157,300.00
2008	Grove City Road Reconstruction	\$356,400.00
2008	Voeller Ave Storm Sewer Improvement	\$151,000.00
2009	2009 Sanitary & Storm Sewer Rehab	\$246,000.00
2010	2010 Sewer Rehabilitation Project	\$258,000.00
2013	2012 Sanitary Rehabilitation Project	\$284,600.00
2012	Southwest Blvd. San. Sewer Replacement	\$260,000.00
2012	Southwest Blvd Sanitary Rehabilitation	\$339,700.00
2014	2014 Sanitary Sewer Rehabilitation	\$810,800.00
2014/2014	Town Center Development	\$558,800.00

Year	Project Name	Project Cost
2016	West Water Run Stream Naturalization/Restoration (Storm Sewer Only)	\$3,357,800.00
2016	2016 Sanitary Sewer Rehabilitation	\$431,000.00
2021	2021 Sanitary Sewer Rehabilitation	\$332,000.00
2021	Stormwater Master Plan (Modeling, Evaluation and Alternatives)	\$180,000.00
2021	Marsh Run Restoration Project	\$977,000.00
2020/2021	Sanitary Sewer Backup Program, Phase 1 and 2	\$400,000.00
2021	Hoover/Kingston Storm Sewer Improvement	TBD (currently soliciting pricing from Contractor)
2021	Columbus Street Stormwater Detention	\$475,000.00
TOTAL		\$13,741,400.00

Total Investment of approximately
\$13,741,400



Factors that affect a flooding event

- Rain Event(s)
- Storm Sewer Capacity
- Antecedent Conditions (e.g. was ground saturated or frozen which increased runoff)
- Stream conditions/flow
- Maintenance
 - Private
 - Public



Rainfall Events: Characterized by Intensity, duration and return frequency



- March Rain Event
 - March 18, 2020 (9 hours) 4.56 inches (approx. 10-year)
 - March 19-20, 2020 (18 hours) 1.20 inches
- May Rain Event 3.36 inches
 - May 18-19, 2020 (32 hours) 3.67 inches (approx. 5-year)
- July Rain Event 2.8 inches (>50-year)
 - July 27, 2020 (1 hour)
- A return frequency (period) is an estimate of how long it will be between rainfall events of a given magnitude, based on historical rainfall data.

Observed Rain Events: 2006-2021



Front Street between Midland Street and Park Street
(March 20, 2020)



Broadway and Cleveland Avenue (March 20, 2020)

Event	Rainfall Depth (inches)	Actual Number of Occurrences
1-yr	1.88	14
2-yr	2.25	6
5-yr	2.79	7
10-yr	3.24	1
25-yr	3.88	3

- Over the past 15 years the study area has experienced significant rain events.

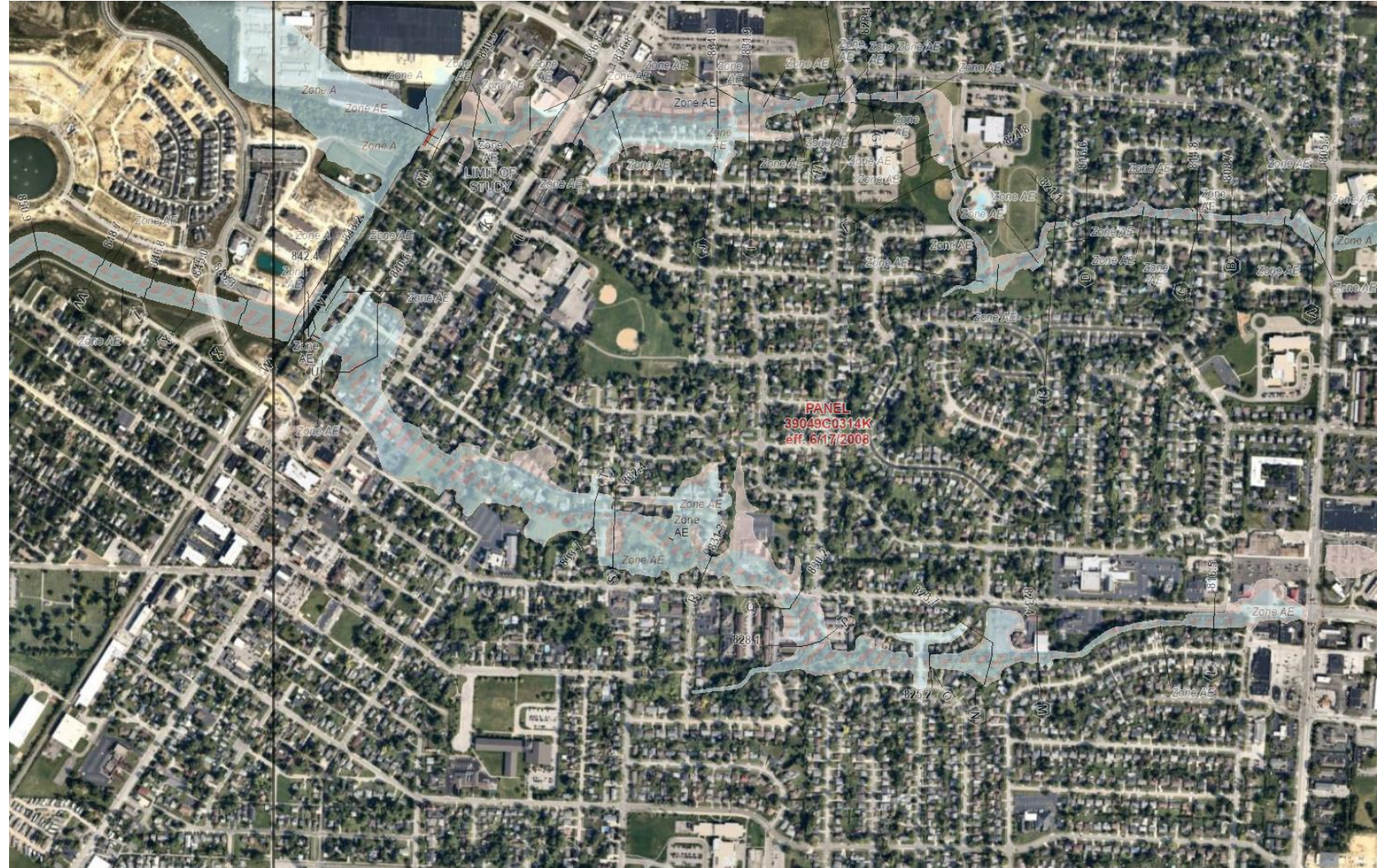
Stormwater Collection System

- Storm Sewer Sizing and Inlet Capacity: a majority of the storm sewers within the study area were constructed in the 1960's or earlier (prior to the City's current design standards).
- Maintenance:
 - The City maintains the public storm sewer system through routine cleaning, removal of debris, inspections, and repair.
 - It is the private property owners responsibility to maintain private storm sewer infrastructure such as downspouts and yard drains.



Stream Flooding

- West Water Run has a naturally defined floodplain that inundates roadways and some buildings.
- There are approximately 137 buildings in the FEMA defined 100-year floodplain of West Water Run.
- City enforces a Stream Corridor Protection Zone policy to protect areas adjacent to streams.

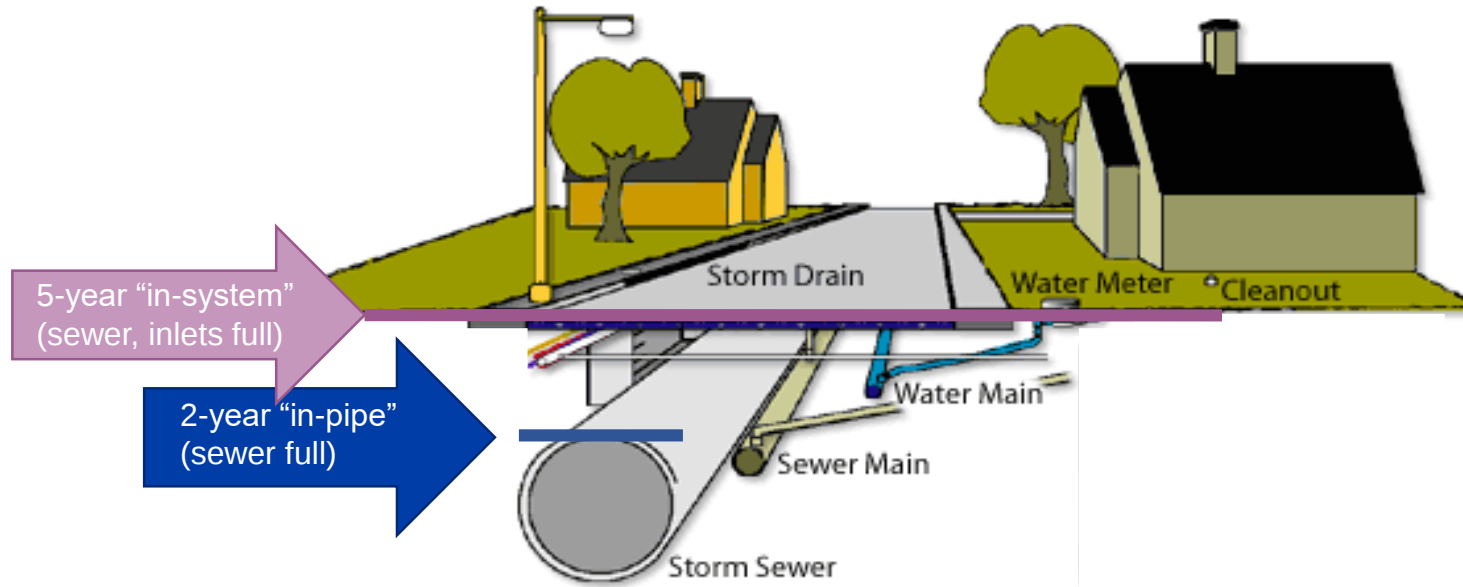


Storm System Operational Thresholds

- For the purposes of this study we have identified the following criteria that defines operational thresholds of the storm system.
- For this study we have defined flooding as areas that do not meet Levels 1 or 2 of the table shown below.

Level of Service	Requirements
Level 4: Design/Standard Operation	• Design and operation of the City's stormwater collection system. This includes in-pipe flow and in system flows (including street gutter drainage/ponding). • Property owner is responsible to address on-lot flood routing issues (e.g., downspouts in disrepair, landscaping or fences blocking flood routing paths).
Level 3: Flood Routing	• Flood routing for larger rain events within public streets and/or engineered flood routing paths (easements). Flood routing within public streets consistent with the design and operation of the roadway. This flood routing should be limited to areas/depths that do not endanger structures and vehicular traffic.
Level 2: Urban Flooding	• Public or private flooding that exceeds typical operational criteria (e.g. roadway ponding that does not recede within 3 hrs of the end of the rain event).
Level 1: Structural Flooding	• Minimize potential for building flooding attributed to an undersized stormwater system.

Level 4: Design/Standard Operation



Rainfall depths for design storm events (12-hour duration):

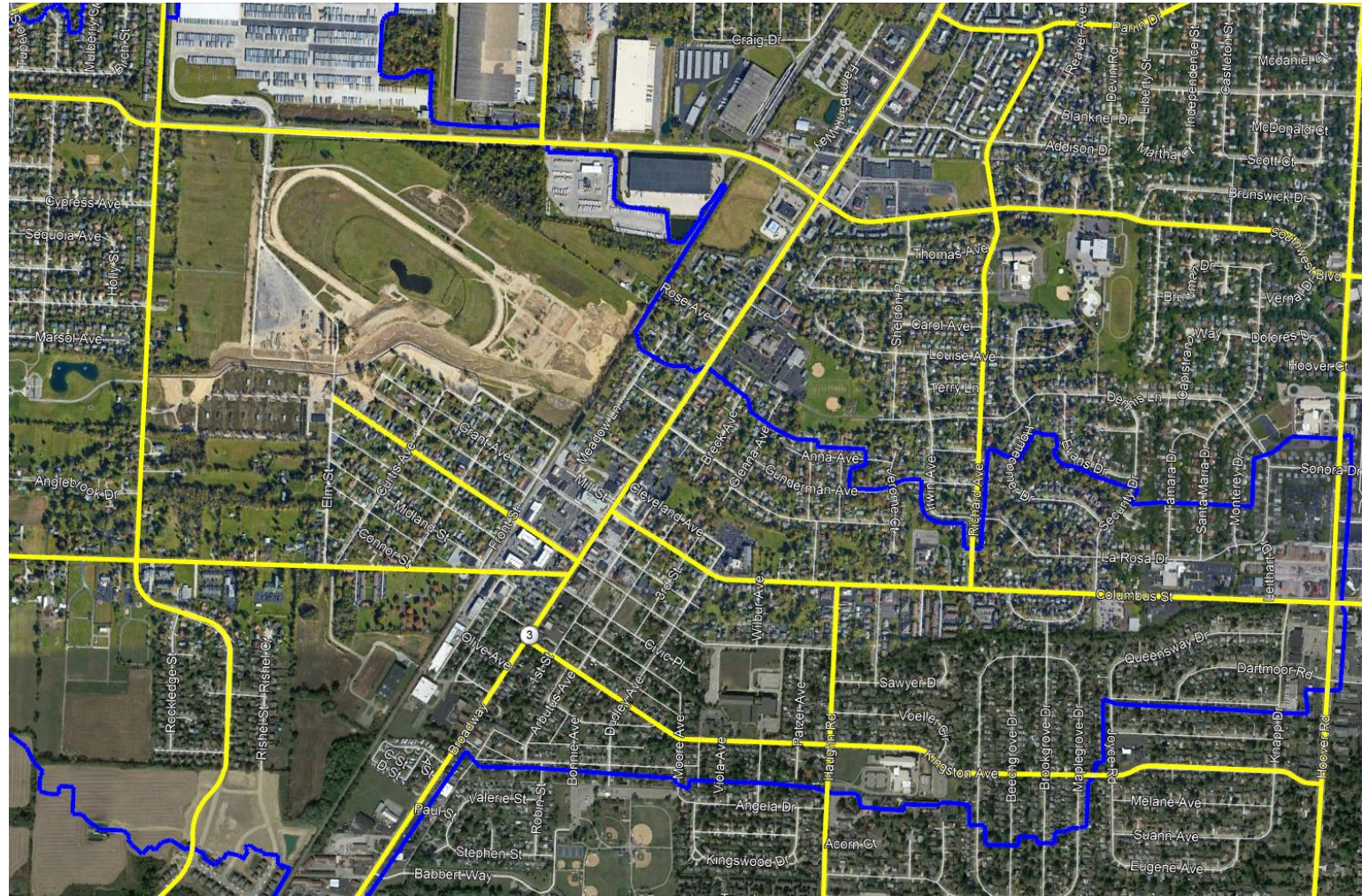
- 5 year – 2.79 in.
- 10 year – 3.24 in.
- 25 year – 3.88 in.
- 50 year – 4.42 in.
- 100 year – 5.00 in.

Street Classification	Flow Contained in Storm Pipe	Hydraulic Grade Line in Storm Pipe Below Street Elevation ¹	Major Storm Flood Routing*	Roadway Culverts*	Roadway Culverts on FEMA Streams*
Residential (Maplegrove Street)	2-year storm	5-year storm	100-year storm; no more than 1-foot of ponding in streets and no private property damage	10-year	100-year
Collector/Secondary/Arterial (Grove City Road, Demorest Road)	5-year storm	10-year storm		25-year	100-year

*No damage to buildings during the 100-year storm event

Roadway Classification

- Based on Average Daily Traffic
- Collector/Secondary/Arterial Roadways within project area:
 - Broadway
 - Columbus Street
 - Kingston Avenue
 - Grove City Road
 - Park Street
 - Demorest Road
 - Haughn Road
 - Richard Avenue



Level 3: Flood Routing

Southwest Boulevard



Level 2: Urban Flooding

Front Street



Level 1: Structural Flooding

- Structural flooding is defined as any flooding to buildings that results from overland flood routing through a door or window.
- The City has implemented a Sanitary Sewer Backup Prevention Program to assist homeowners in the prevention of water in basement incidents caused by sanitary sewer backup during heavy rain events.

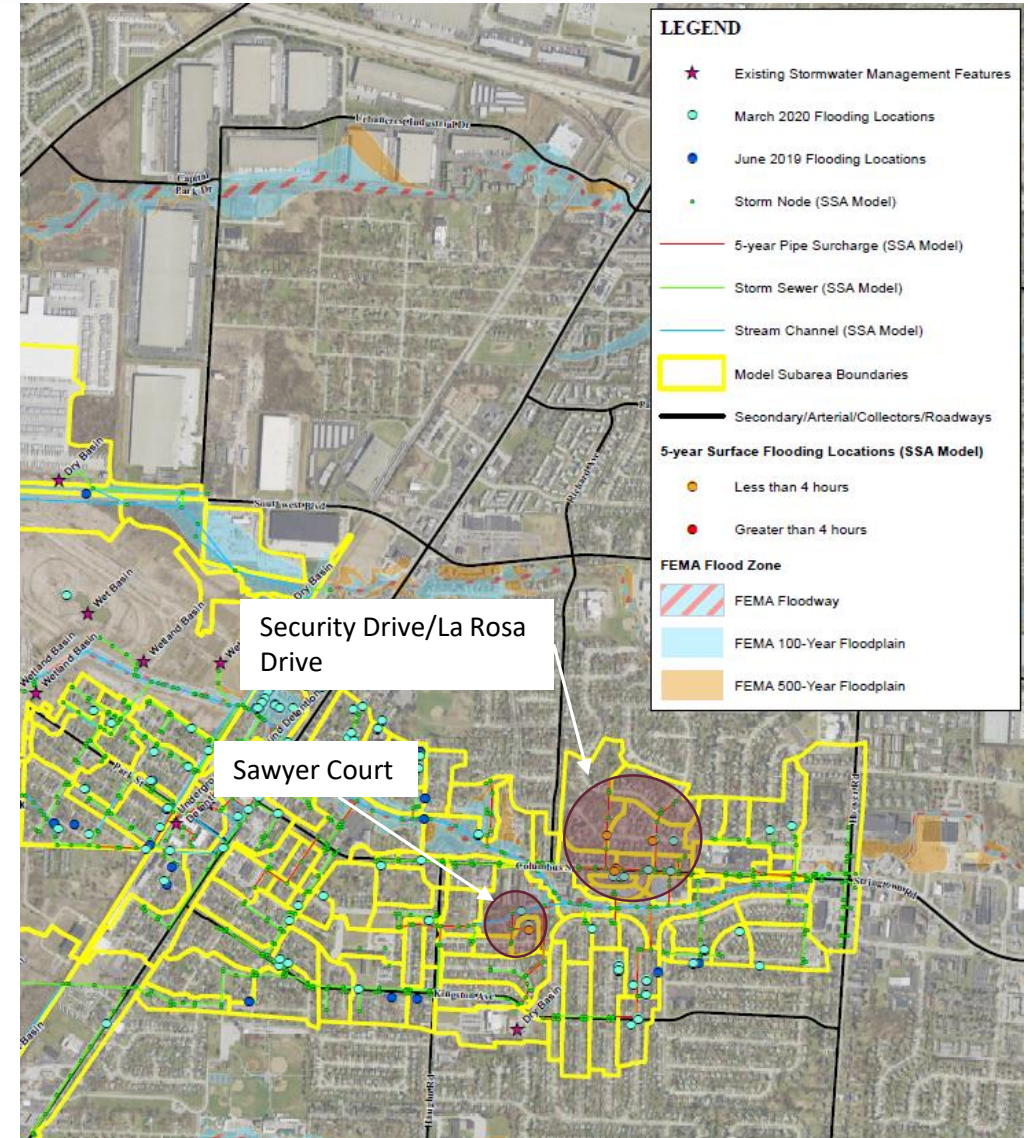


Photo shown is NOT in Grove City.

Existing Conditions 5-Year Storm Event

Local Streets where there is surface ponding during a 5-year storm event, however surface flooding time is minimal(<3 hrs):

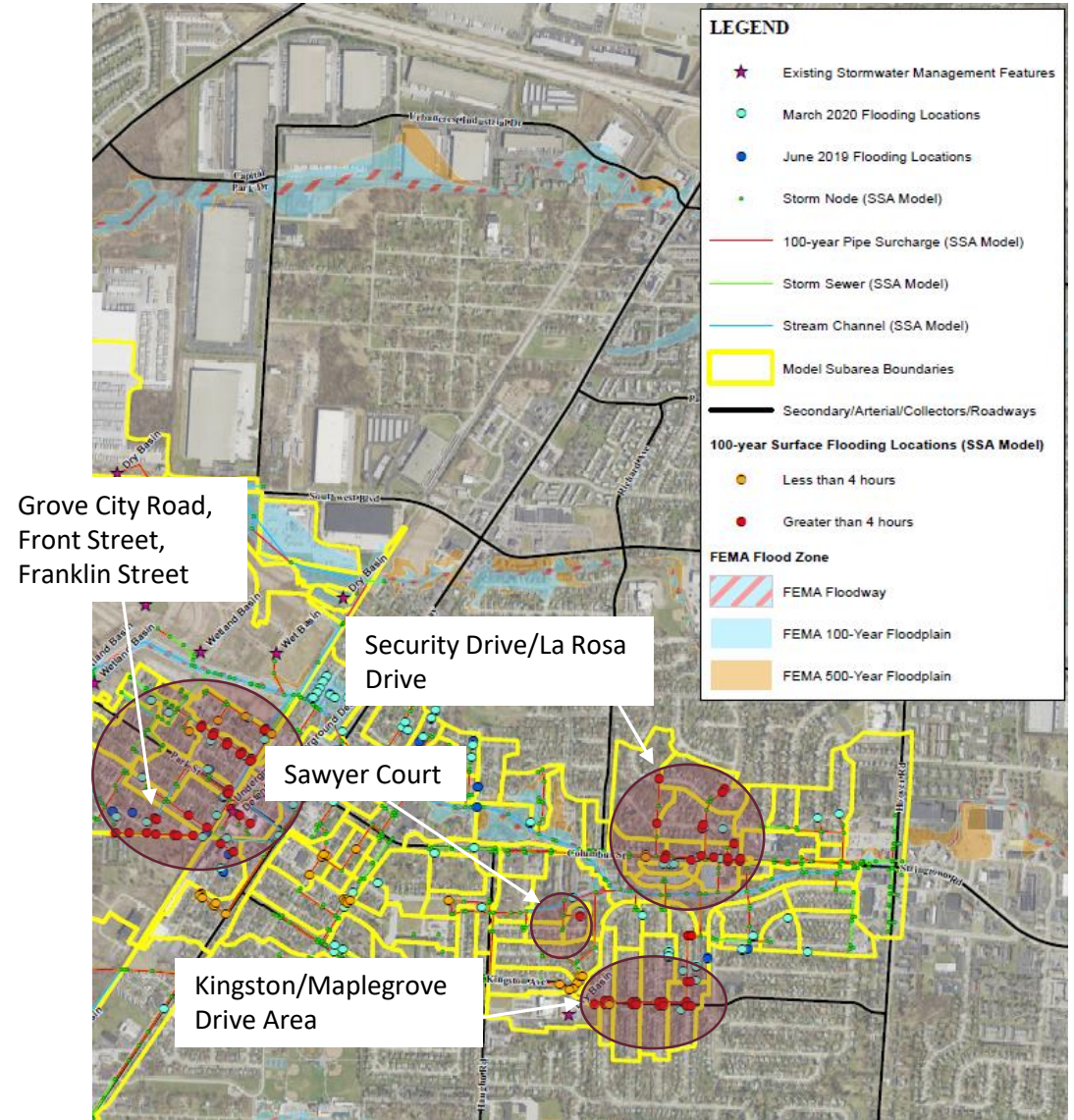
- Security Drive/La Rosa Drive
- Sawyer Court



Existing Conditions 10-Year Storm Event

Secondary/Collector/Arterial Streets where there is surface ponding during a 10-year storm event, with an extended period of flooding (>3hrs):

- Kingston Avenue
- Grove City Road



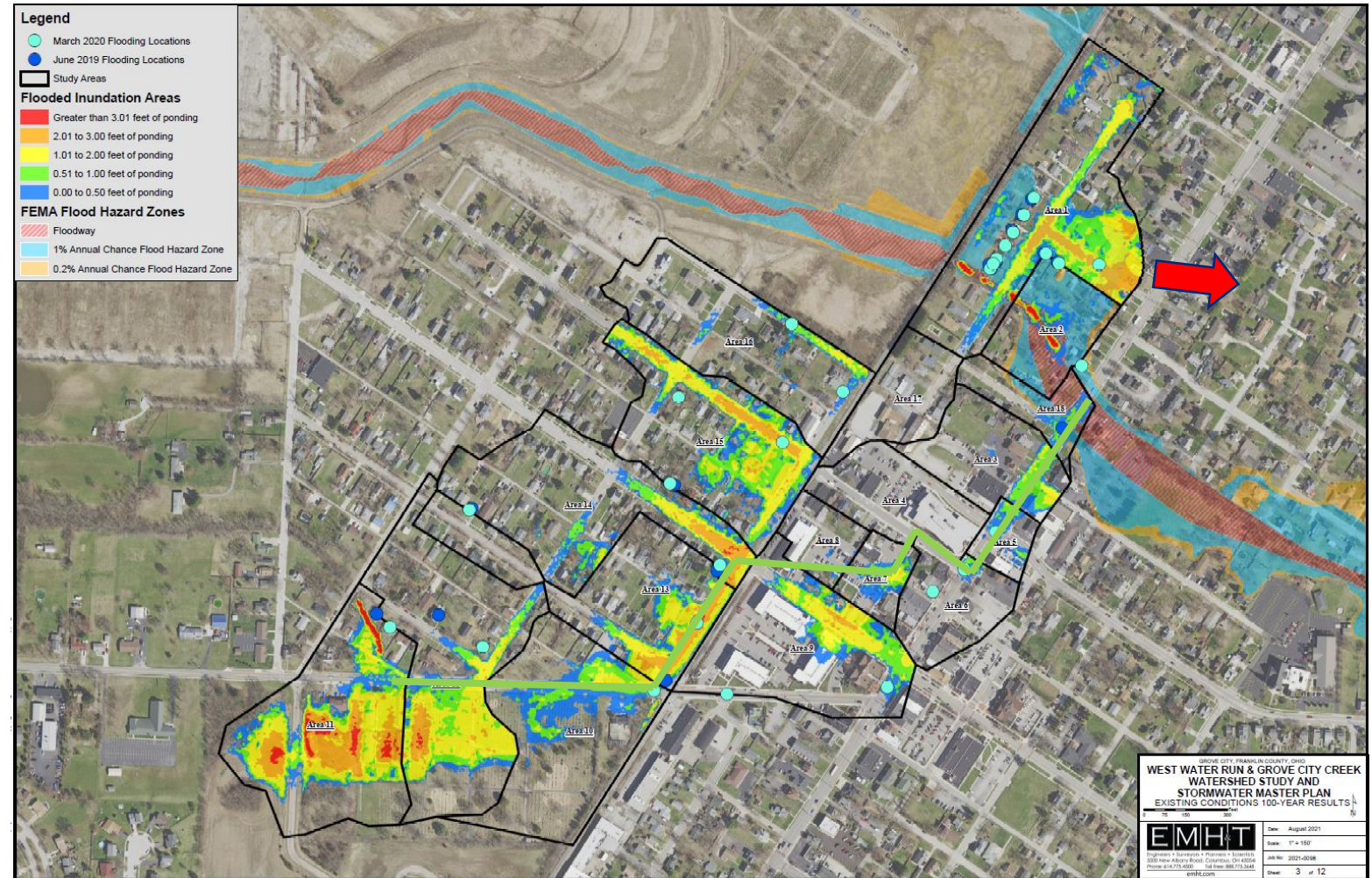
Existing Conditions 25-Year Storm Event for Town Center Area

- The storm sewer through the Town Center area does not meet the City's design standards for culverts (25-year design storm).
- There is an extended period of surface flooding (>3hrs) along Grove City Road, Meadow Lane, and throughout the Town Center area.
- Surface flooding at Meadow Lane flows east to Breck Avenue and Glenna Avenue.



Existing Conditions 100-Year Storm Event for Town Center Area

- Town Center area is susceptible to building flooding due to a lack of adequate flood routing.
- Image shown is for a 100-year storm event which the City has not experienced.



Stormwater System Evaluation

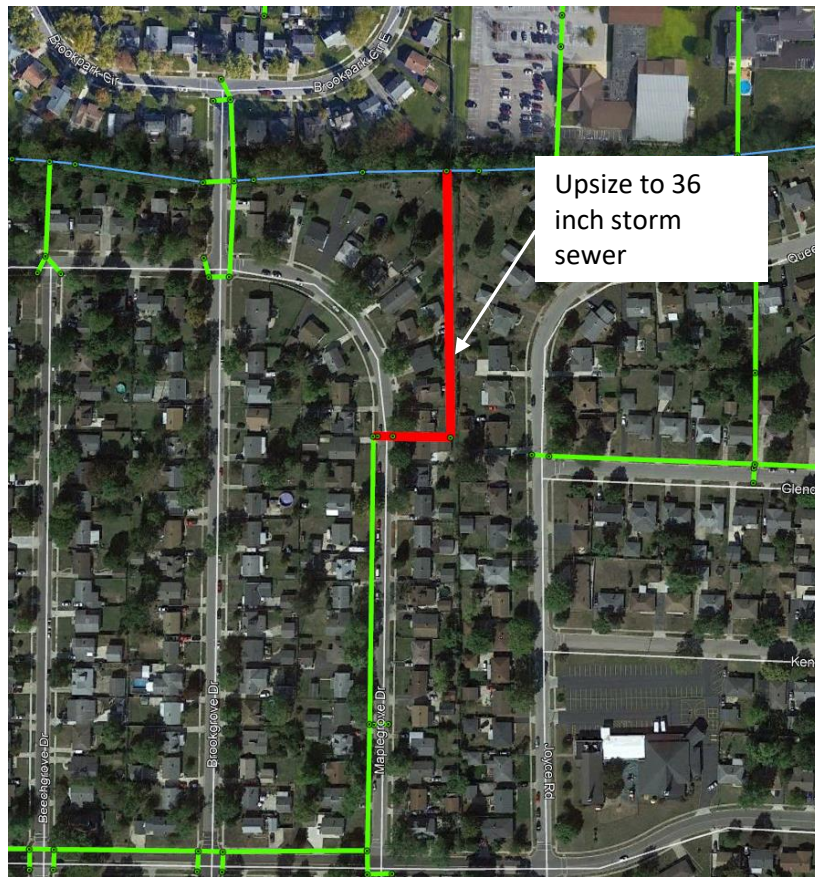
Location	Does it Meet the Current SWDM Regulations?	Is this a Health/Safety/Welfare Concern?
Security Drive/ La Rosa Drive	No (Floods prior to 10-year storm event)	No
Kingston Avenue	No (Floods prior to 10-year storm event)	No
Sawyer Court	No (Floods prior to 5-year storm event)	Yes (Emergency Ingress/Egress)
Meadow Lane (Lotz Drive, Breck, Avenue, Glenna Avenue)	No (Culvert overtops prior to 25-year storm event, potential building flooding 100-year storm event)	Yes (Flooding >3 hrs, Structural Flooding)
Grove City Road, Front Street, and Franklin Street	No (Culvert overtops prior to 25-year storm event, potential building flooding 100-year storm event)	No

Proposed Stormwater Improvements: Security Drive and La Rosa Drive



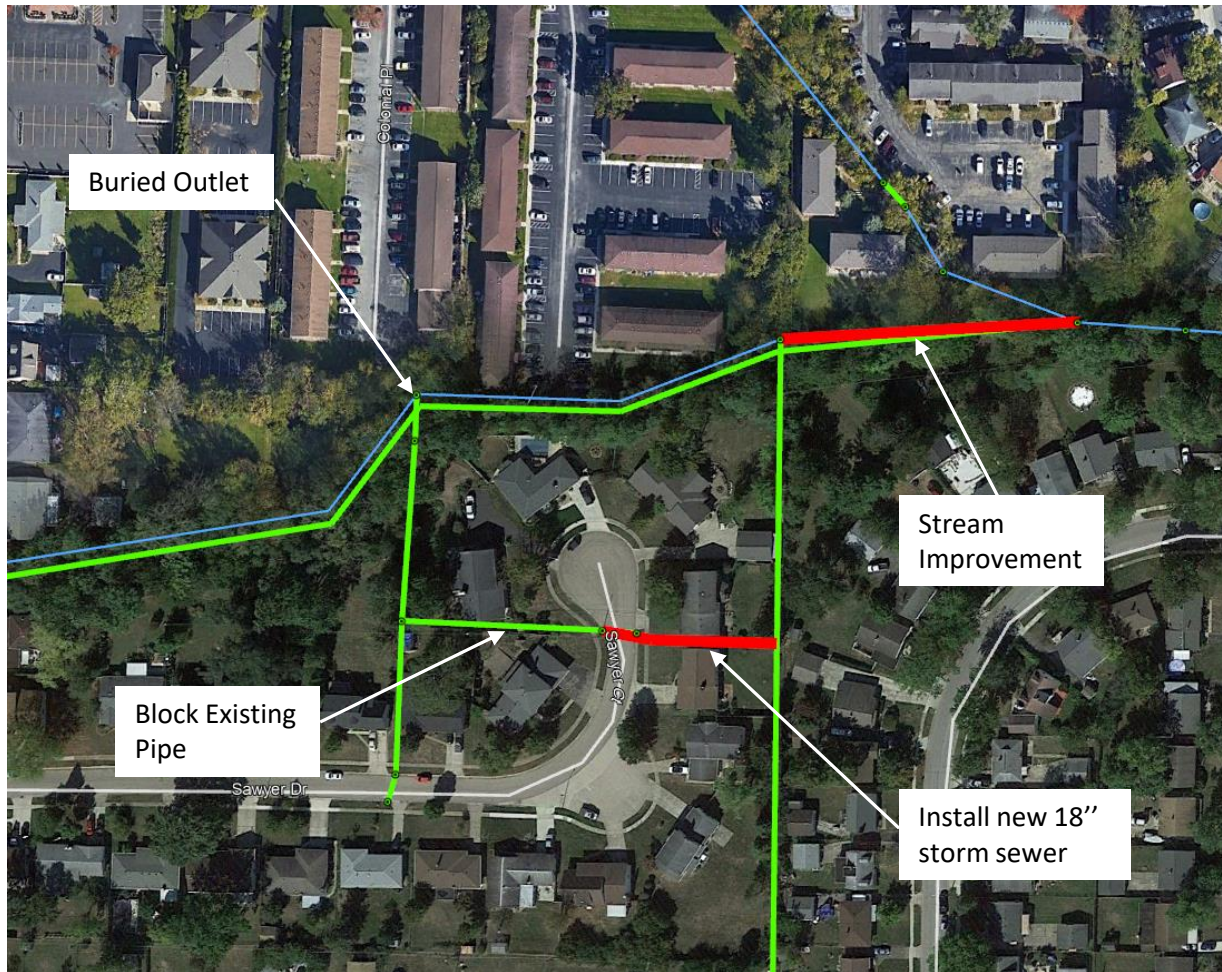
- Urban flooding resulting from sewer capacity limitation. No structural flooding.
- Replace 1,037 linear feet of 12 inch - 18 inch storm sewer with 18 inch -24 inch storm sewer.
- Estimated Total Project Cost (excluding land acquisition)= \$1,200,000

Proposed Stormwater Improvements: Kingston Avenue



- Urban flooding resulting from sewer capacity limitation. No structural flooding.
- Replace 30 inch storm sewer with 610 liner feet of 36 inch storm sewer.
- Estimated Total Project Cost (excluding land acquisition)= \$300,000

Proposed Stormwater Improvements: Sawyer Court



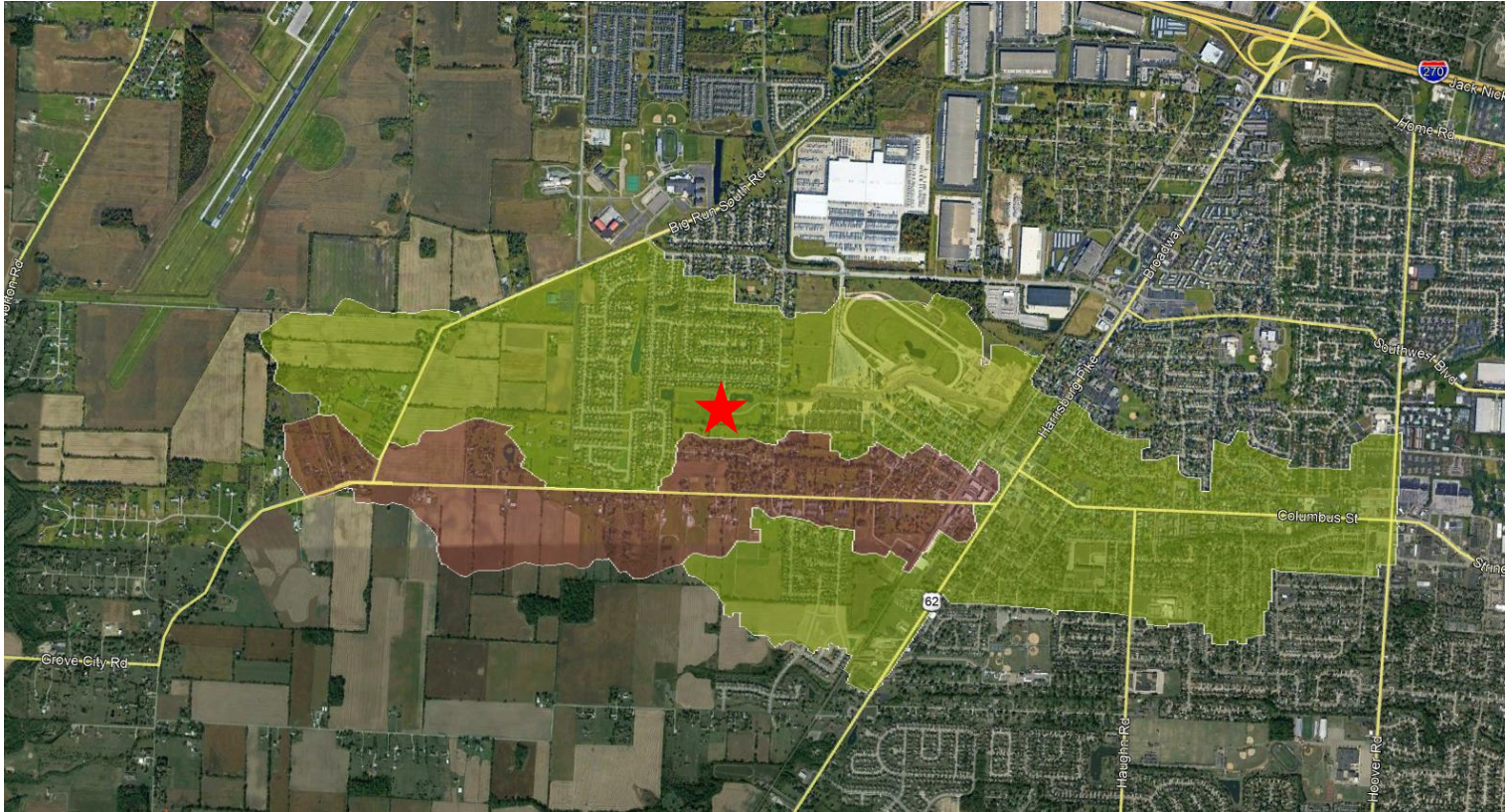
- Urban flooding resulting from sewer capacity limitation. No structural flooding.
- Propose a new storm sewer outlet (would require easement acquisition) and stream improvements downstream of outlet.
- Estimated Total Project Cost (excluding land acquisition)= \$400,000

Stormwater Diversion Sewers

- Evaluated Diversion Storm Sewers in place of, or in addition to, regional stormwater detention basins.
- Model results indicate adverse impacts to flooding along West Water Run.
- Eliminated due to limited flood reduction benefits.

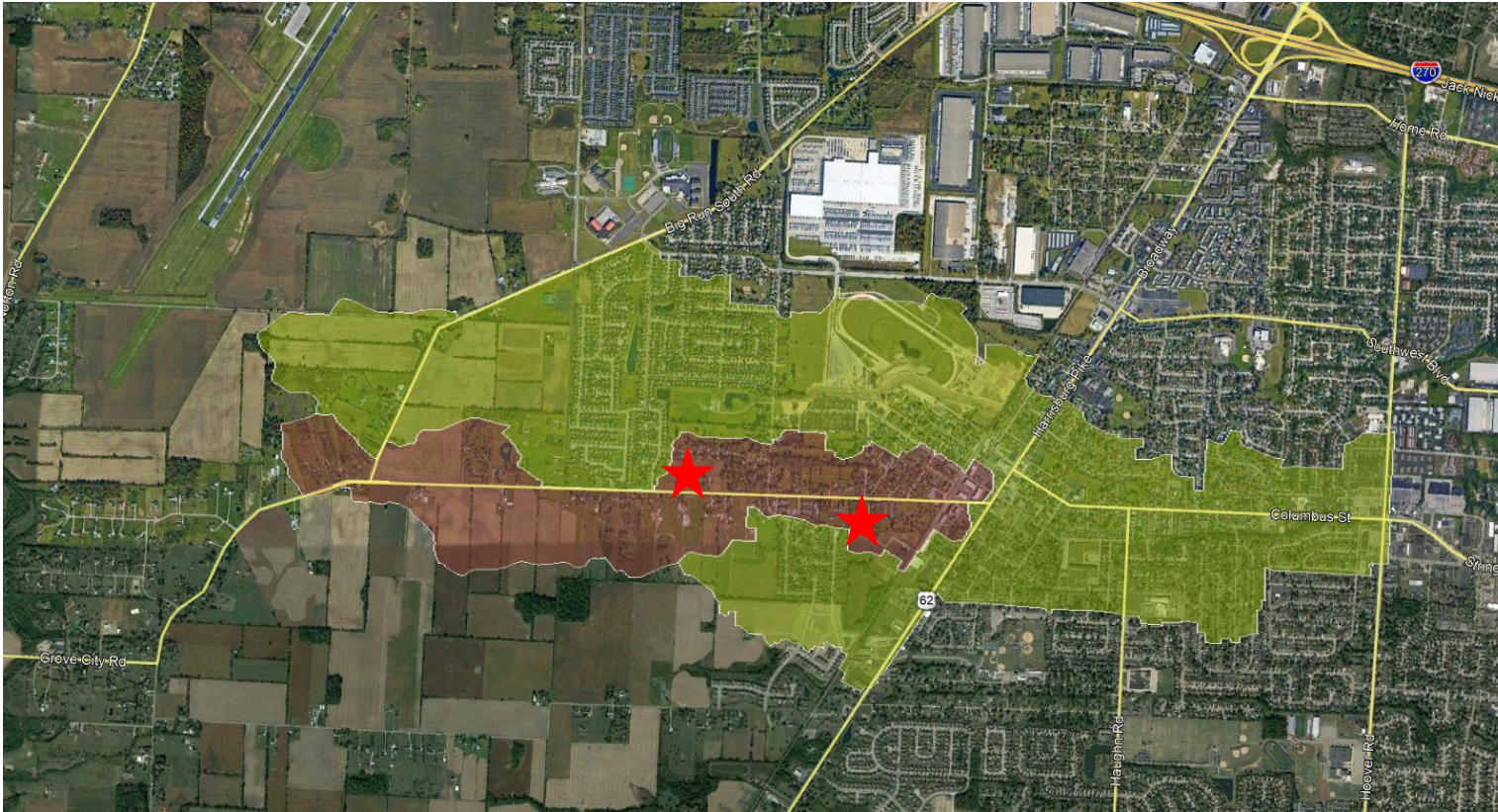


Stormwater Detention within the West Water Run Watershed



- Expansion of existing stormwater detention basin in Breck Park was evaluated.
- Benefits are not significant enough with this detention basin to mitigate downstream flooding at Meadow Lane.
- Requires additional stormwater detention within the Grove City Creek watershed to mitigate flooding.

Stormwater Detention within the Grove City Creek Watershed



- Constructing a new stormwater detention basin on land along Grove City Road was evaluated. Multiple potential sites were considered.
- Removal of surface flooding along Grove City Road, Front Street and Town Center Area through the 25-year storm event.
- Estimated Total Project Cost = \$5,500,000-\$6,500,000

Regional Stormwater Detention within the Grove City Creek Watershed (25-Year Event)



Existing Conditions Flooding Limits

Total Flooded Surface Area = 21.8 acres

Flooded Surface Area > 1 foot depth = 9.5 acres



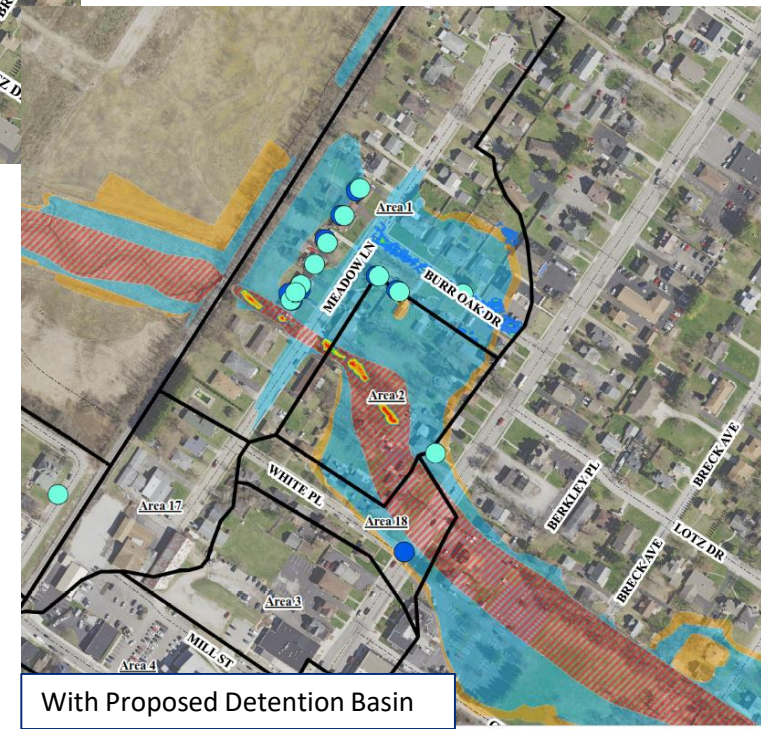
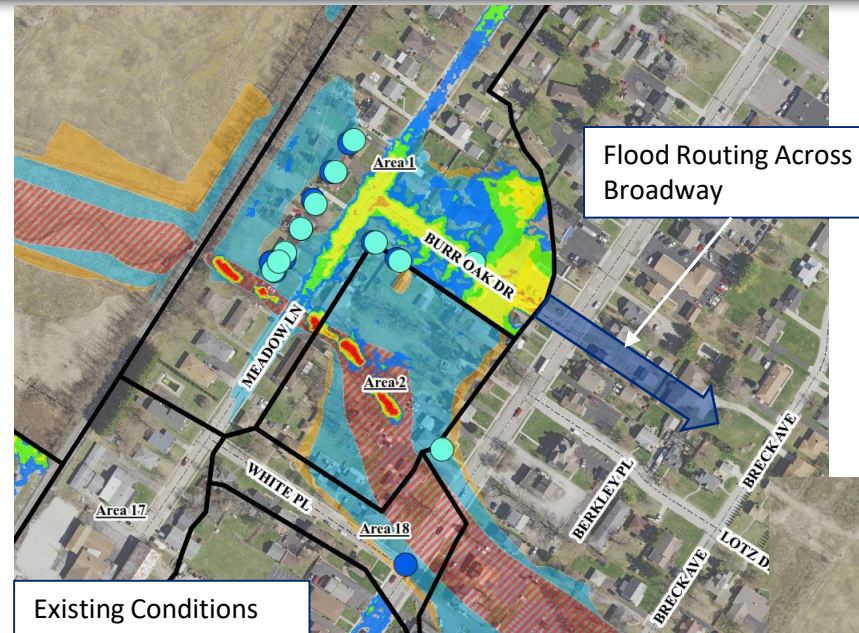
Proposed Conditions Flooding Limits

Total Flooded Surface Area = 1.7 acres

Flooded Surface Area > 1 foot depth = 0.3 acres

Proposed Stormwater Improvement: Meadow Lane (Lotz Drive, Breck, Avenue, Glenna Avenue)

- Flood routing from Meadow Lane at West Water Run.
- Grove City Creek Detention reduces the extent of flood routing that occurs.
- Would require right-of-way modification, and potential land acquisition in order to fully address.





Summary of Stormwater System Evaluation and Recommendations

1. Overall the City's stormwater collection system is operating within the design tolerance of infrastructure (sewers, roadways, etc.).
 - The majority of the sewers were installed pre-1960 within the Study Area.
 - Approximately 98% of storm sewer pipes are sized to meet current design standards.
2. West Water Run has an established floodplain/floodway through the project area which includes approximately 137 structures within this FEMA regulated area.
3. Recent rainfall events have exceeded the design standards for the local stormwater collection system.
4. The City actively invests in the maintenance of its sewer collection system (both sanitary and stormwater).
5. The City has developed a Sanitary Sewer Backup Prevention Program to assist homeowners prevent basement or home sanitary sewer backup incidents during heavy rain events.



Summary of Stormwater System Evaluation and Recommendations

4. The correlation of field observations and hydraulic modeling has identified the following target areas for potential stormwater system improvements:
 - Meadow Lane (Lotz Drive, Breck Avenue, Glenna Avenue)
 - Grove City Road/Front Street/Franklin Street
 - Security Drive and La Rosa Drive
 - Kingston Avenue
 - Sawyer Court
5. Due to the impacts to private property (e.g. land acquisition) for the proposed improvements in an urbanized area – it is recommended that the City advance projects with property owner feedback to develop workable solutions.
6. Evaluate potential stormwater projects within the City's Capital Improvement Plan planning.
7. Evaluate stormwater management policies for future development in the West Water Run and Grove City Creek watersheds.
8. Evaluate State and Federal funding opportunities to support the implementation of the local storm sewer improvements identified in this Study.