Storm Water Advisory Board Agenda
June 7, 2021 at 2:30 PM

Storm Water Advisory Board
Jon Chaiken, Chair
Nimet Jeruzalmi
Bill Doering
Adam Greenberg
Ray Warren

Staff Liason
Scot Lahrmer, Village Manager
Wes Brown, Zoning & Project Administrator

MINUTES

1. Approval of Minutes: April 8, 2019

TOPICS OF DISCUSSION

1. 2021 Storm Water Program

ADJOURNMENT

Amberley Village Storm Water Advisory Board (SWAB)
4/8/19 Meeting

Attending Members: Jon Chaiken, Ray Warren, Nimet Jeruzalmi, Bill Doering, Adam Greenberg
Also attending: Tom Muething, Wes Brown, Tony Chesney, Scot Lahrmer

A motion to approve the minutes from 3/20/2018 meeting was made and approved.

The Storm Water Advisory Board met to review the Utility Fund Balance, and The Storm Water Project Master List

• The existing financial position of the Storm Water Fund showed a beginning balance of $379,497. After accounting for projected deposits of $232,400 the projected balance at the end of ‘20 should be approximately $82,265.

• Reviewed Storm Water Project Master List that included a complete review of potential items as well as a list of future projects the Utility may wish to consider. Both the potential 2019 program, annual storm water charges and future projects were reviewed. The projects for 2019 were contingent on the obtaining of easements.

• A motion was made by Nimet Jeruzalmi and seconded by Adam Greenberg to approve the 2019 Storm Water Program. It was approved. The SWAB concurred with the proposed projects for 2019:

2019 Storm Water Program

$15,000 - 6815-6845 West Farm Acres Drive – installation of a storm water catch basin and pipe to redirect the storm water from the right of way to the existing storm water system at 6845 W Farm Acres Dr.

$15,000 - 2625-2628 Fair Oaks Lane – installation of a storm water catch basin and pipe to redirect the storm water from the right of way to the existing storm water system at 2628 Fair Oaks Ln.

$10,000 - 3500 Arborcrest Court – replacement of 15’ of 12” concrete pipe due to sink hole (separations of joints).

It is projected that the scope of future projects will temporarily need funding from the Village’s General Fund and that the Fund will make reimbursements as funds become available throughout the year.

Respectfully submitted,
Jonathan Chaiken, Chairperson

Storm Water Utility Estimated Fund Balance

	2021 Estimate
Beginning of 2021 (as of January 1, 2021)	$201,861
2020 Carryover Encumbrances	$0
	$201,861
2021 Encumbrances	($3,110)
Pipe inspections for 2021 projects	$198,751
2021 HCSWD Annual Fee	($19,516)
sub total	$179,235
2021 1st Quarter Deposit	$53,375
sub total	$232,610
2021 2nd Quarter Deposit	$53,375
sub total	$285,985
2021 Road Program (storm water portion)	($61,343)
sub total	$224,642
*2021 Storm Water Program (estimated cost only)	($45,000)
sub total	$179,642
2021 3rd Quarter Deposit	$53,375
sub total	$233,017
2021 4th Quarter Deposit	$53,375
sub total	$286,392
AVMD Storm Water Charges	($15,000)
sub total	$271,392
*Interest from investments	$1,500
Estimated end balance	$272,892

The Storm Water Utility is estimated to generate approximately $213,500 annually

* Estimate only, program has not been finalized

Storm Water Expenditures

2020 Storm Water Expenditures - $121,863.

$57,348	Adleta Construction, 2019 Storm Water Program encumbrance
$8,950	Catch basin and pipe repair at 2730 Section Road
$18,788	2019 Hamilton County Storm Water Fee
$18,866	2020 Hamilton County Storm Water Fee
$17,011	AVMD 2020 Labor and material

2021 Storm Water Program - $36,447 to $41,447.

$15,000 to $20,000 6915 Section Road – Replace off set joint in the 15" storm pipe and install form liner in the entire 110' of storm pipe under Section Road just west of Amberacres Drive.

$15,000 7001 Knoll Road **–** Install form liner in the 15" storm water pipe under Knoll Road just north of Verger Lane.

$6,447 3590 Sorrento Drive – Reconstruct catch basin and install underdrains to prevent pavement deterioration and to prevent icing of roadway and driveway within the Village storm water easement.

2021 Street Program storm water charges – $61,343.

- Section Road – no storm water improvements planned.
- Winding Way - drainage improvements to swales and catch basin repairs.
- Esther Drive - total curb replacement and catch basin repairs.
- Fair Acres Drive - drainage improvements – swale and catch basin repairs.

2021 Hamilton County Storm Water Fee – Estimated to be $19,516.

Annual storm water charges

Storm water project within the street program – Historically between $90,000 and $150,000.

County NPDES annual fees - Historically between $18,000 and $20,000.

AVMD charges- labor and materials charged for storm system maintenance and repair $15,000 annually.

2022 Storm Water Anticipated Charges

The total storm water charges for the 2022 Street Program are estimated to be $489,350, including the following projects.

North, South Farmcrest Drive and Portion of Kincaid Road – Estimated $469,000 for the reconstruction of the storm water infrastructure (catch basins, manholes and pipes) and 50% of the total curb replacement. The Village is receiving %70,909 in grants and loans from OPWC, MRF and WPCLF funding for the 2022 total reconstruction of North and South Farmcrest and a portion of Kincaid.

2022-2023 Street Programs – Estimated $20,350 for curbing and catch basin repairs on Elbrook Avenue (south of Section, Bluegrass Lane and Meadow Ridge Lane, in conjunction with GCWW's water main project.

Future Projects

7801 Ridge Road – Amberley Green Property, regrading of the south property line between the Amberley Green Garden and 3004 - 3008 Burning Tree, to redirect/control storm water runoff.

3361-3381 Galbraith Road - Replacement of approximately 233' of 36" concrete pipe due to separations of joints continuously causing sink holes in the easement.

8415 Crestdale Court - Reconstruction of the headwall and add wingwalls, due to the existing headwall separating/falling away from the pipe.

6600-6700 Ridge Road - Elimination of the combined sewer overflow into the creek (joint project between AV and MSD).

7279-7300 Willow Brook Lane - 12" storm pipe replacement from street to the creek, due to sink hole.

Arborcrest Drive - Regrade ditch lines and if possible, add catch basins and pipe to prevent ponding of water.

Farm Acres Drive – Reconstruct 12 storm water catch basin and replace the concrete slab top lids on 7 of the catch basins with 22B extensions with grates.

3695 Gardner Avenue – Installation of a storm water basins and pipe to prevent flooding from Thornton Drive in Silverton

7860 Gwenwyn Drive – Evaluate the storm water system in the Matson/Gwenwyn area from Deer Park to Rollman Estates Drive to determine if the system is of adequate size, due to flooding of the street and yards at 7860 and 7881 Gwenwyn Drive.

3012 Section Road – Evaluate the box culvert and replace or install a secondary overflow pipe under Section Road, to prevent storm water from flooding the roadway at the French Park exit.

3012 Section Road – Replace the headwall and 24” corrugated storm water pipe on the south side of Section Road near the French Park exist.

6885 Fair Oaks Drive – Evaluate the bridge west of Fair Oaks Drive for possible ways to improve flow in the creek to prevent storm water from flooding Fair Oaks Drive.

Storm water catch basin repairs or replacement – Evaluate, repair or replace catch basins throughout the Village at $1,500 to $2,000 each.

Lansdowne Fire Lane – Install concrete swale or extend the storm water pipe from Lansdowne Avenue to basin on Beechhollow Drive to prevent erosion along the edge of the fire lane.

Ditch Line Rehabilitation - Reestablishing ditch line on several streets throughout the Village.

Maintenance Department Details and Projects

Replacement of concrete slab tops on catch basin on various streets throughout the Village, this would involve reconstruction of some catch basins.

Various catch basin repairs/reconstructions throughout the Village.

Evaluation of the storm water infrastructure on the concrete base streets.

Clearing debris from storm water pipes, headwalls and catch basin.

TO: **Village Council**

FROM: **Scot F. Lahrmer, Village Manager**

DATE: **December 11, 2020**

RE: **8-Year Street Improvement Plan**

ITEM: Resolution 2020-34, Adopting an 8-Year Street Improvement Plan

ACTION REQUESTED: By motion, adopt **Resolution 2020-34** to approve the Village's Street Improvement Plan.

PURPOSE:
To accelerate street improvements.

The Village has approximately 30 lane miles of streets and each year typically spends between $300,000 and $400,000 on repaving and maintenance programs. That investment in our infrastructure has historically been funded through a combination of the general fund, license plate fees, gasoline tax, and the Village's stormwater utility fund. In an average year, the Village receives approximately $200,000 from license plate fees and gasoline tax (used only for road repairs) and typically contributes an additional $200,000 from the general fund to fund street programs. The Village is also able to utilize funds from the stormwater utility to pay for the stormwater portion of street programs, when applicable.

Although effective, this is not sufficient to eliminate the backlog of streets needing to be repaved but with the annual General Fund transfer, the Village has been able to keep pace with street paving and maintenance services each year.

The Village has several concrete base streets that have been paved over with asphalt over the years. Most of these streets are in stable condition. The streets in the North and South Farmcrest Drive neighborhood are among the concrete base streets and have been paved over several times. In addition, due to the repaving, there is little to no curb reveal and the streets need total reconstruction.

There are also streets throughout the Village that need to be repaved to keep the condition of the streets from slipping into a category whereby repairs become more expensive than resurfacing.

The Village has applied and received limited state and county grants to assist in the repaving of streets that meet certain criteria. However, the overall condition of our streets and street maintenance is the Village’s responsibility therefore, relying on others to fund our infrastructure needs, is not reasonable.

In 2012, the Village embarked on an assessment of the condition of our streets using our Village Engineer, CT Consultants. The conclusion was that while 85% of our lane miles were in fair to good condition, 15% were in poor condition. The estimated cost to make the necessary repairs overall was $7.9 million with those in the poor category costing $4.6 million.

The intent of the 2012 Street Condition Report was to provide an opportunity to not only better understand our present condition but be able to provide the ability to develop an improvement plan. Despite the value of the comprehensive analysis, the Village was fiscally constrained and unable to advance additional dollars towards our infrastructure.

Village Council has long held the street program as a high priority for Amberley Village. In 2019, the analysis was updated and the Village maximized its use of resources in repaving streets by investing $2.5 million since 2012. The study revealed the Village overall still had $10.3 million of street improvements of which $6.1 million included major rehabilitation or reconstruction. The needs of Amberley's street system far exceeds our ability to fund improvements however, between 2012 and 2019, the Village went neither forward nor backward in maintaining the condition of the streets. However, there are larger projects that need to be addressed, including the major rehabilitation and reconstruction projects.

The goal of any street pavement program is to extend the life of the streets through routine maintenance. Preventative and minor rehabilitation slows pavement deterioration thus extending the useful life.

The Village's Maintenance Department performs crack filling and asphalt repairs which is a critical preventative maintenance practice. This increases our yearly road repair cost but increases the life of our streets and it eventually decreases the overall costs. With proper drainage and maintenance, the useful life of a street can extend beyond 20 years before street conditions worsen, thereby increasing our expense of making costly repairs.

Categorical repairs to Village streets fall into 4 buckets with each becoming more expensive:

1. The first bucket is preventative and includes crack sealing, pavement rejuvenators, and micro-surfacing. The cost is approximately $3.60 per square yard.
2. The second category is minor rehabilitation and includes asphalt overlay, pavement repairs, and spot curb repairs and typically costs $18 per square yard.
3. The third type is major rehabilitation and encompasses asphalt overlay, partial and full-depth repairs, curb repairs, and storm sewer reviews. This work usually costs $28 per square yard.
4. The final classification is street reconstruction which involves complete pavement reconstruction, complete curb replacement, drive apron replacement, and drainage improvements. This cost runs $132 per square yard.

All of this is to accentuate the value of keeping our streets properly maintained and prevent streets from slipping into categories where the cost significantly increases.

From the 2019 Street Condition Report, rehabilitating the existing pavement in the form of resurfacing and/or curb replacement is what is needed while other streets necessitate full replacement of the existing pavement. The extent of these improvements with engineering is estimated at $6.7 million.

Village Council has determined that a more robust street improvement program is needed to address the street conditions. Like most communities, Amberley is challenged to meet funding needs for maintaining, operating, and improving our roadway systems.

After presenting the 2019 Report to the Streets Committee and Finance Committee, staff was tasked with the development of a multi-year plan. Staff worked with CT Consultants and identified an aggressive street program that could be accomplished over an 8-year period. Staff then identified several financial considerations including a street levy, borrowing money, additional license plate fee, General Fund transfers, and special assessments.

With input from Finance Committee members, ultimately, the recommendation to the Finance Committee was a multi-step approach:

1. Effectively use our Street Fund balances
2. Utilize our Storm Water Fund balance where applicable
3. Continue transfers from the General Fund into the Street Funds
4. Adopt the additional $5 license plate fee
5. Use grants and loans
6. Utilize the Village's unencumbered General Fund Balance to cover shortfalls during this 8-year program.

With this approach, the Village would invest $6.7 million over the 8-year period and make significant advancements on our street conditions.

Exhibit A represents the 8-Year Program breaking down the streets that will be affected during this time frame. The most significant street improvements are shown however, there are years beginning in 2025 where the streets have yet to be identified. This is intentional in the sense that the Village will continue to monitor street conditions and will have some flexibility to include streets that need attention.

Exhibit B represents how the 8-Year program will be funded. There are several sources of funds being utilized by the Village: Street Funds, General Funds, Grants, Loans, and an additional $5 license plate fee.

The adoption of this 8-year Street Improvement Plan represents Council's endorsement that street improvements are the Village's priority. And while its preparation and adoption is the culmination of considerable effort, it finally accomplishes quite a few objectives of the Village. The first is a schedule for maintenance and reconstruction of Village streets at the appropriate time to extend the overall life expectancy in the most efficient and economical manner. With this plan, the Village can communicate to residents in the Farmcrest subdivision and others, when their streets will be addressed. This program also improves the quality of the Village streets in a fiscally responsible manner and implements a plan that considers both immediate and longer-term needs. This is another tangible example of how Amberley provides excellent value for your tax dollar. And finally, this program promotes transparency by informing our residents on the decision-making process involving the selection and utilization of street improvement funds throughout the Village.

The Streets, Public Utilities and Sewers Committee met recently to review the 8-year Street Improvement Plan and is recommended for Council's adoption. If approved, next month Village Council will be asked to adopt the additional $5 license plate fee.

If you have any questions, please let me know.

AMBERLEY VILLAGE MULTI-YEAR STREET PROGRAM
2021 - 2028

DATE: 10/29/20
PROJECT: 190553

CT consultants engineers architects planners

Item No.	Spec. No.	Item	Length		Construction Cost	Storm Cost	Roadway Cost
		2021					
		SECTION ROAD - Aracoma to Knoll	5,860		$318,300.00		$318,300.00
		WINDING WAY	3,140		$171,450.00	$2,500.00	$168,950.00
		ESTHER DRIVE	849		$130,200.00	$60,000.00	$70,200.00
		FAIR ACRES DRIVE	1,160		$69,900.00	$2,600.00	$67,300.00
		PREVENTATIVE MAINTENANCE (CRACK SEALING & PAVEMENT REJUVENATION)			$30,000.00		$30,000.00
		ENGINEERING			$43,191.00		
		TOTAL 2021			**$763,041.00**	**$65,100.00**	**$654,750.00**
		2022 - 2023					
		N FARMCREST ($145,000 OPWC Grant - Pending - Amount Not Removed from Construction Costs)	1,540		$725,000.00	$197,600.00	$527,400.00
		S FARMCREST	1,380		$659,200.00	$193,700.00	$465,500.00
		KINCAID ROAD - N Farmcrest to S Farmcrest ($70,909) MRF Grant - Successful - Amount Removed from Construction Costs & $76,817 OPWC Grant - Pending - Amount Not Removed from Construction Costs)	295		$140,100.00	$77,700.00	$62,400.00
		ELBROOK AVENUE - Section Road to S Corp Line - In Conjunction with WM Replacement	1,680		$94,100.00	$6,750.00	$87,350.00
		BLUEGRASS LANE - In Conjunction with WM Replacement	640		$43,600.00	$6,400.00	$37,200.00
		MEADOW RIDGE LANE - In Conjunction with WM Replacement	1,800		$101,000.00	$7,200.00	$93,800.00

AMBERLEY VILLAGE MULTI-YEAR STREET PROGRAM
2021 - 2028

DATE: 10/29/20
PROJECT: 190553

CT consultants

Item No.	Spec. No.	Item	Length		Construction Cost	Storm Cost	Roadway Cost
		PREVENTATIVE MAINTENANCE (CRACK SEALING & PAVEMENT REJUVENATION)			$30,000.00		$30,000.00
		ENGINEERING (Does not include Construction Inspection)			$207,522.00		
		TOTAL 2022 - 2023			**$2,000,522.00**	**$489,350.00**	**$1,303,650.00**
		2024					
		ROLLMAN ESTATES DRIVE	3,777		$204,000.00	$15,100.00	$188,900.00
		GLENFARM COURT	890		$48,050.00	$3,600.00	$44,450.00
		BEECH HOLLOW DRIVE	1,630		$88,100.00	$6,550.00	$81,550.00
		CLEARWOOD COURT	407		$22,000.00	$1,750.00	$20,250.00
		AMBERCREEK DRIVE	2,855		$261,400.00	$28,550.00	$232,850.00
		ROLLING RIDGE COURT	368		$29,300.00	$1,500.00	$27,800.00
		RIDGEWAY CLOSE	472		$25,500.00	$1,900.00	$23,600.00
		PREVENTATIVE MAINTENANCE (CRACK SEALING, PAVEMENT REPAIR & PAVEMENT REJUVENATION)			$30,000.00		$30,000.00
		ENGINEERING			$42,501.00		
		*Does not include Legacy Trace, French Park Place					
		TOTAL 2024			**$750,851.00**	**$58,950.00**	**$649,400.00**

AMBERLEY VILLAGE MULTI-YEAR STREET PROGRAM
2021 - 2028

DATE: 10/29/20
PROJECT: 190553

consultants

Item No.	Spec. No.	Item	Length		Construction Cost	Storm Cost	Roadway Cost
		2025					
		AMBERLEY VILLAGE SERVICE DRIVE - Ridge to the Service Garage	1,960		$192,600.00	$7,850.00	$184,750.00
		UNIDENTIFIED STREET IMPROVEMENTS			$100,000.00		$100,000.00
		PREVENTATIVE MAINTENANCE (CRACK SEALING & PAVEMENT REJUVENATION)			$30,000.00		$30,000.00
		ENGINEERING			$19,356.00		
		TOTAL 2025			**$341,956.00**	**$7,850.00**	**$314,750.00**
		2026					
		ELBROOK AVENUE - Section Road North to Cul-de-Sac	4,420		$365,400.00	$17,700.00	$347,700.00
		TWIGWOOD LANE	1,920		$92,200.00	$7,700.00	$84,500.00
		LARKFIELD DRIVE	800		$32,000.00		$32,000.00
		UNIDENTIFIED STREET IMPROVEMENTS			$100,000.00		$100,000.00
		PREVENTATIVE MAINTENANCE (CRACK SEALING & PAVEMENT REJUVENATION)			$30,000.00		$30,000.00
		ENGINEERING			$37,176.00		
		TOTAL 2026			**$656,776.00**	**$25,400.00**	**$594,200.00**

AMBERLEY VILLAGE MULTI-YEAR STREET PROGRAM
2021 - 2028

DATE: **10/29/20**
PROJECT: **190553**

CT consultants

Item No.	Spec. No.	Item	Length		Construction Cost	Storm Cost	Roadway Cost
		2027					
		SAGAMORE - Galbriath to Lansdowne	2,250		$394,400.00	$102,000.00	$292,400.00
		UNIDENTIFIED STREET IMPROVEMENTS			$100,000.00		$100,000.00
		PREVENTATIVE MAINTENANCE (CRACK SEALING & PAVEMENT REJUVENATION)			$30,000.00		$30,000.00
		ENGINEERING			$31,464.00		
		TOTAL 2027			**$555,864.00**	**$102,000.00**	**$422,400.00**
		2028					
		FARM ACRES	460		$200,000.00	$28,400.00	$171,600.00
		W FARM ACRES	1,480		$642,000.00	$84,200.00	$557,800.00
		E FARM ACRES	1,480		$642,000.00	$84,200.00	$557,800.00
		PREVENTATIVE MAINTENANCE (CRACK SEALING & PAVEMENT REJUVENATION)			$30,000.00		$30,000.00
		ENGINEERING			$181,680.00		
		TOTAL 2028			**$1,695,680.00**	**$196,800.00**	**$1,317,200.00**
		TOTAL COST			$6,764,690	$945,450	$5,256,350

STREETS--SOURCE & USE STATEMENT 2021-2028

	2021		2022/2023		2024		2025		2026		2027		2028		**TOTALS**
SOURCE	STREET	STORM	STREET	STORM	STREET	STORM	STREET	STORM	STREET	STORM	STREET	STORM	STREET	STORM	
BALANCE FROM PRIOR YEAR	$ 1,021,000.00	$ 200,975	$ 791,553	$ 349,375	$ 530,847	$ 287,025	$ 326,647	$ 441,575	$ 467,003	$ 655,075	$ 323,328	$ 843,175	$ 357,165	$ 954,675	
#2011 FUND: GASOLINE EXCISE TAX/REGISTRATIONS	$ 239,116.00		$ 465,042		$ 239,116		$ 239,116		$ 239,116		$ 239,116		$ 239,116		$ 1,899,738
#2101 FUND: REGISTRATION/LICENSE TAX	$ 29,378.00		$ 97,170		$ 48,585		$ 48,585		$ 48,585		$ 48,585		$ 48,585		$ 369,473
WPCLF LOAN			$ 217,345												
STORM WATER FEES		$ 213,500		$ 427,000		$ 213,500		$ 213,500		$ 213,500		$ 213,500		$ 213,500	$ 1,708,000
GRANTS			$ 70,909												$ 70,909
TIF							$ 204,106	$ 7,850							$ 211,956
GENERAL FUND TRANSFER	$ 200,000.00		$ 400,000		$ 200,000		$ 200,000		$ 200,000		$ 200,000		$ 200,000		$ 1,600,000
TOTAL	$ 1,489,494.00	$ 414,475	$ 2,042,019	$ 776,375	$ 1,018,548	$ 500,525	$ 1,018,454	$ 662,925	$ 954,704	$ 868,575	$ 811,029	$ 1,056,675	$ 844,866	$ 1,168,175	
PROGRAM COST	$ (697,941.00)	$ (65,100)	$ (1,511,172)	$ (489,350)	$ (691,901)	$ (58,950)	$ (334,106)	$ (7,850)	$ (631,376)	$ (25,400)	$ (453,864)	$ (102,000)	$ (1,498,880)	$ (196,800)	
LOAN REPAYMENT							$ (217,345)								
BALANCE	$ 791,553.00	$ 349,375	$ 530,847	$ 287,025	$ 326,647	$ 441,575	$ 467,003	$ 655,075	$ 323,328	$ 843,175	$ 357,165	$ 954,675	$ (654,014)	$ 971,375	
TOTAL EXPENDED EACH YEAR	$ (763,041.00)		$ (2,000,522)		$ (750,851)		$ (341,956)		$ (656,776)		$ (555,864)		$ (1,695,680)		$ (6,764,690)

Engineering costs included in street costs.

Does not include cost for construction observation.