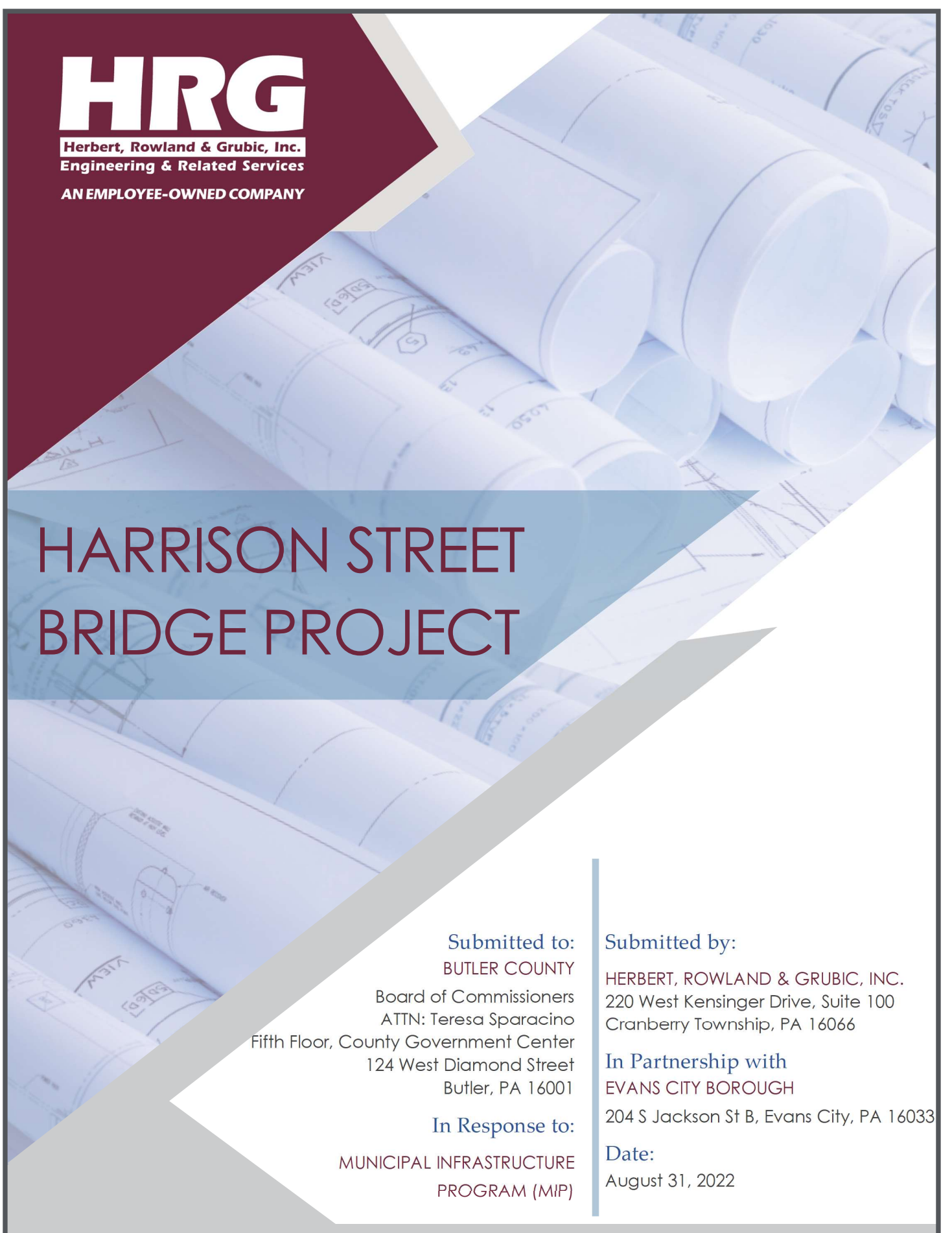


The background of the entire page is a collage of architectural drawings, including cross-sections of pipes and structural diagrams. In the top left corner, there is a dark maroon triangular graphic containing the HRG logo and company information.

# HRG

Herbert, Rowland & Grubic, Inc.  
Engineering & Related Services

AN EMPLOYEE-OWNED COMPANY

## HARRISON STREET BRIDGE PROJECT

### Submitted to:

BUTLER COUNTY

Board of Commissioners  
ATTN: Teresa Sparacino  
Fifth Floor, County Government Center  
124 West Diamond Street  
Butler, PA 16001

### In Response to:

MUNICIPAL INFRASTRUCTURE  
PROGRAM (MIP)

### Submitted by:

HERBERT, ROWLAND & GRUBIC, INC.  
220 West Kensinger Drive, Suite 100  
Cranberry Township, PA 16066

### In Partnership with

EVANS CITY BOROUGH

204 S Jackson St B, Evans City, PA 16033

### Date:

August 31, 2022

**MUNICIPAL INFRASTRUCTURE PROGRAM GRANT APPLICATION FOR  
EVANS CITY**

**TABLE OF CONTENTS**

Municipal Infrastructure Program Application

Appendix A1.....Project Needs and Outcomes

Appendix A2.....Cost Estimate

Appendix A3.....Permit List

Appendix A4.....Supplemental Information

Project Location Map

Letter of Support

Resolution of Support

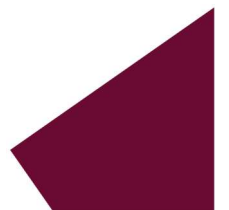
Lower Connoquenessing Study



1

---

# MUNICIPAL INFRASTRUCTURE PROGRAM APPLICATION





## MUNICIPAL INFRASTRUCTURE PROGRAM APPLICATION

### APPLICANT INFORMATION

**ORGANIZATION NAME:** Evans City Borough **FEIN:** 25-6000353

**CONTACT NAME AND TITLE:** Beth Crowley, Secretary/Treasurer

**ADDRESS:** 204 B South Jackson Street, Evans City, PA 16033

**EMAIL:** ecboro@evanscity.us **UEI:** MM2XNHQTWJE5

**PHONE:** 724-538-8320

**ENTITY TYPE:**

**MUNICIPAL GOVERNMENT:** ☒

**MUNICIPAL AUTHORITY:** ☐

### PROJECT INFORMATION

**PROJECT NAME:** Harrison Street Bridge Project

**PROJECT CATEGORY:**

☐ **WATER**

☐ **SEWER**

☒ **OTHER ELIGIBLE PROJECT**

☐ **BROADBAND**

### MIP REQUEST/LOCAL MATCH

Please complete the following table with the amount of the MIP request and local match.

| USE OF FUNDS            | TOTAL PROJECT COSTS | MIP REQUEST         | LOCAL MATCH        | STATUS OF LOCAL MATCH |
|-------------------------|---------------------|---------------------|--------------------|-----------------------|
| ENGINEERING/DESIGN      | \$74,386.00         | \$66,986.00         | \$7,400.00         | Committed             |
| CONSTRUCTION            | \$743,855.00        | \$669,555.00        | \$74,300.00        | Committed             |
| CONTINGENCY             | \$37,193.00         | \$33,493.00         | \$3,700.00         | Committed             |
| CONSTRUCTION MANAGEMENT | \$0.00              | \$0.00              | \$0.00             | Committed             |
| <b>TOTALS</b>           | <b>\$870,312.00</b> | <b>\$784,912.00</b> | <b>\$85,400.00</b> | <b>Committed</b>      |

\* See Appendix A2 for further cost estimation details

\*\* Construction Management Costs have been accounted for elsewhere in the total cost estimation



## PROJECT NEEDS AND OUTCOMES

Please describe the need for the project, and why funding is being requested:

See attached Appendix A1.

Please describe the positive impacts of the project and measurable outcomes (e.g., number of households served, economic impacts, etc.)

See attached Appendix A1.

## PROJECT SCHEDULE

Please complete the following table with the project schedule. **Please note: All contracts for work to be completed must be executed by December 31, 2024; all work must be completed by December 31, 2026.**

| COMPONENT                | START DATE    | COMPLETION DATE |
|--------------------------|---------------|-----------------|
| FINAL ENGINEERING/DESIGN | August 2023   | November 2023   |
| PERMITTING               | August 2023   | November 2023   |
| BID DATE                 | December 2023 | March 2024      |
| NOTICE TO PROCEED        | April 2024    | May 2024        |
| CONSTRUCTION             | May 2024      | August 2024     |

\*All project timelines will be adjusted as dependent upon MIP funding date and applicable permit needs approval

## ADDITIONAL DOCUMENTATION REQUIREMENTS

Please provide the following documentation:

- Engineer's estimate
- List of permits required with status of permits
- If State funding is used for match, please provide copy of grant award letter



### SIGNATURES AND CERTIFICATION

1. I hereby certify that I have the authority and approval from the governing body of the applying municipality or municipal authority to submit this application for MIP funds.
2. I understand that should this application be approved; an Intergovernmental and Subrecipient Agreement will need to be executed between the parties.
3. I understand that Butler County will rely on this certification as a material representation in reviewing and potentially approving this application.
4. I understand any award of funds pursuant to this application must adhere to U.S. Department of the Treasury, Interim and Final Rule for Coronavirus State & Local Fiscal Recovery Funds. I further certify costs meet the required guidance. Any funds expended by the municipality or municipal authority in any manner that does not adhere to official federal guidance shall be returned to Butler County.
5. I further certify that the project will meet the required timeline as specified within this application and Butler County's MIP guidelines.

Jean Charisse Deener-Kohan

AUTHORIZED SIGNATURE

Jean Charisse Deener-Kohan

PRINT NAME

Evans City Borough Council President

TITLE

26 August 2022

DATE

Mark R. Widdersheim

MARK R. WIDDERSHEIM  
EVANS CITY BOROUGH COUNCIL  
SOUTHWEST BUTLER COUNTY  
STORMWATER PLANNING GROUP

AUGUST 26, 2022

### APPLICATION SUBMISSION

Email completed application by **August 31, 2022**, to: [ButlerARPA@deltaone.com](mailto:ButlerARPA@deltaone.com)

### PROGRAM INQUIRIES

Program Inquiries should be directed to:

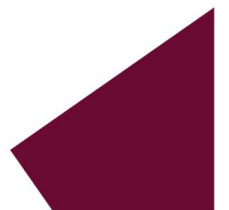
Teresa M. Sparacino  
717-441-1318  
[ButlerARPA@deltaone.com](mailto:ButlerARPA@deltaone.com)



---

# **Appendix 1:**

Project Needs  
and Outcomes



## **Appendix 1 – Project Needs and Outcomes**

### **Describe the need for the project, and why funding is being requested:**

This application to the Municipal Infrastructure Program is being submitted in cooperation with a group of ten municipalities dedicated to addressing stormwater management on a regional watershed basis. This collaborative effort is referred to as the Southwest Butler Stormwater Planning Group. This Group was formed in response to a request from the County Commissioners in October 2019 for municipalities to work together to mitigate future flooding events. One of several accomplishments of the Group was the development and subsequent adoption of the Lower Connoquenessing Stormwater Planning Study in 2021. This Study identified priority projects in the participating municipalities to meet the goals of reducing the impact of future flooding events.

A culvert along Harrison Street (See Appendix A4) has caused a bridge along the roadway to become structurally deficient which negatively impacts the community transportation access. Poor placement of stormwater drainage has resulted in poor water management, as well as infrastructure failure, in Evans City Borough. Stormwater from the area does not flow properly to Breakneck Creek and needs properly controlled.

### **Describe the positive impacts of the project and measurable outcomes:**

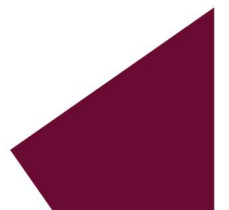
Repairs/ replacement of the culvert and relocation of an existing storm drain will allow for more effective water management along the bridge and will help prevent future disruptions in Evans City Borough. Harrison Street is along the emergency vehicle route in Evans City, and the street is vital to the minimum level of service of the borough and its residents as well as emergency response. This project will utilize the most cost-effective approach, considering available alternatives, to fix the deficient structures.



A2

---

## **Appendix 2:** Cost Estimate



## **Appendix 2 – Cost Estimate**

The Borough seeks the Municipal Infrastructure Fund funding to complete Harrison Street Bridge Project in Evans City Borough, Butler County.

Grant funding would be used to assist in the funding of \$743,855.00 in construction costs, \$74,386.00 in engineering & design costs, and \$37,193.00 in contingencies.

A detailed cost estimate and breakdown is included on the following page for the Harrison Street Bridge Project.

**PRELIMINARY ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST ESTIMATE  
HARRISON STREET BRIDGE PROJECT  
EVANS CITY, BUTLER COUNTY, PA  
AUGUST 2022**

| ITEM                             | DESCRIPTION                                                                                                    | EST. QTY. | UNIT | UNIT COST     | EXTENSION            |
|----------------------------------|----------------------------------------------------------------------------------------------------------------|-----------|------|---------------|----------------------|
| 1                                | CLEARING AND GRUBBING                                                                                          | 1         | LS   | \$ 5,000.00   | \$ 5,000.00          |
| 2                                | CLASS 1 EXCAVATION                                                                                             | 172       | CY   | \$ 30.00      | \$ 5,160.00          |
| 3                                | SUBBASE 6" DEPTH (NO. 2A)                                                                                      | 161       | SY   | \$ 18.00      | \$ 2,898.00          |
| 4                                | SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, 0.3 TO < 3MILLION ESALS, 25.0 MM MIX, 4" DEPTH       | 161       | SY   | \$ 30.00      | \$ 4,830.00          |
| 5                                | SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE, PG 64S-22, 0.3 TO < 3MILLION ESALS, 9.5 MM MIX, 1 1/2" DEPTH | 161       | SY   | \$ 20.00      | \$ 3,220.00          |
| 6                                | ASPHALT TACK COAT                                                                                              | 161       | SY   | \$ 2.00       | \$ 322.00            |
| 7                                | MOBILIZATION                                                                                                   | 1         | LS   | \$ 20,000.00  | \$ 20,000.00         |
| 8                                | CLASS AA CEMENT CONCRETE                                                                                       | 7         | CY   | \$ 900.00     | \$ 6,300.00          |
| 9                                | CONSTRUCTION SURVEYING                                                                                         | 1         | LS   | \$ 5,000.00   | \$ 5,000.00          |
| 10                               | MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION                                                      | 1         | LS   | \$ 5,000.00   | \$ 5,000.00          |
| 11                               | ALUMINUM BOX CULVERT REPLACEMENT                                                                               | 1         | LS   | \$ 440,000.00 | \$ 440,000.00        |
| 12                               | TYPE M CONCRETE TOP UNIT AND GRATE                                                                             | 4         | EA   | \$ 1,500.00   | \$ 6,000.00          |
| 13                               | STANDARD INLET BOX, HEIGHT < 10'                                                                               | 4         | EA   | \$ 3,500.00   | \$ 14,000.00         |
| 14                               | 18" THERMOPLASTIC PIPE, GROUP I, 15'-1.5' FILL                                                                 | 80        | LF   | \$ 100.00     | \$ 8,000.00          |
| 15                               | WATER MAIN CONNECTION                                                                                          | 2         | EA   | \$ 5,000.00   | \$ 10,000.00         |
| 16                               | 8" DUCTILE IRON WATERLINE                                                                                      | 450       | LF   | \$ 150.00     | \$ 67,500.00         |
| 17                               | SANITARY SEWER MANHOLES                                                                                        | 3         | EA   | \$ 3,500.00   | \$ 10,500.00         |
| 18                               | 8" SANITARY SEWER LINE, SDR 35                                                                                 | 185       | LF   | \$ 125.00     | \$ 23,125.00         |
| 19                               | SANITARY SEWER BYPASS PUMPING                                                                                  | 1         | LS   | \$ 10,000.00  | \$ 10,000.00         |
| 20                               | INSPECTOR'S FIELD OFFICE & INSPECTION FACILITIES                                                               | 1         | LS   | \$ 10,000.00  | \$ 10,000.00         |
| 21                               | EQUIPMENT PACKAGE                                                                                              | 1         | LS   | \$ 3,500.00   | \$ 3,500.00          |
| 22                               | MICROCOMPUTER WITH BATTERY BACKUP SYSTEM                                                                       | 1         | LS   | \$ 2,000.00   | \$ 2,000.00          |
| 23                               | CPM SCHEDULE                                                                                                   | 1         | LS   | \$ 3,500.00   | \$ 3,500.00          |
| 24                               | DIVERSIONARY DIKE SYSTEM                                                                                       | 2         | EA   | \$ 14,000.00  | \$ 28,000.00         |
| 25                               | EROSION AND SEDIMENT POLLUTION CONTROLS                                                                        | 1         | LS   | \$ 5,000.00   | \$ 5,000.00          |
| 26                               | SIGNING AND PAVEMENT MARKING                                                                                   | 1         | LS   | \$ 15,000.00  | \$ 15,000.00         |
| 27                               | UTILITY POLE RELOCATION                                                                                        | 1         | LS   | \$ 30,000.00  | \$ 30,000.00         |
| <b>SUBTOTAL CONSTRUCTION</b>     |                                                                                                                |           |      |               | <b>\$ 743,855.00</b> |
| Contingency (5%)                 |                                                                                                                |           |      |               | \$ 37,193.00         |
| Engineering/Permitting/RPR (10%) |                                                                                                                |           |      |               | \$ 74,386.00         |
| Legal (2%)                       |                                                                                                                |           |      |               | \$ 14,878.00         |
| <b>TOTAL</b>                     |                                                                                                                |           |      |               | <b>\$ 870,312.00</b> |



A3

---

## **Appendix 3:** Permit List



### **Appendix 3 – Permit List**

The planned infrastructure improvements to the Project site may require the following permits and approvals:

**Permit/Approval\***

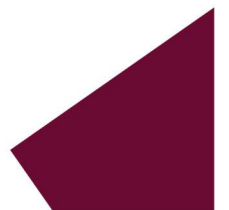
|                                                 |
|-------------------------------------------------|
| Joint Water Obstruction and Encroachment Permit |
| NPDES Permit                                    |

*\*Additional permits/approvals may be deemed necessary once final design is complete.*



---

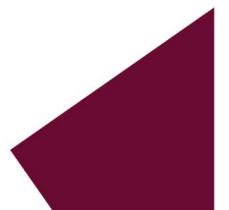
## **Appendix 4:** Supplemental Information

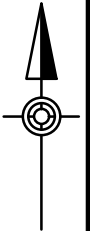
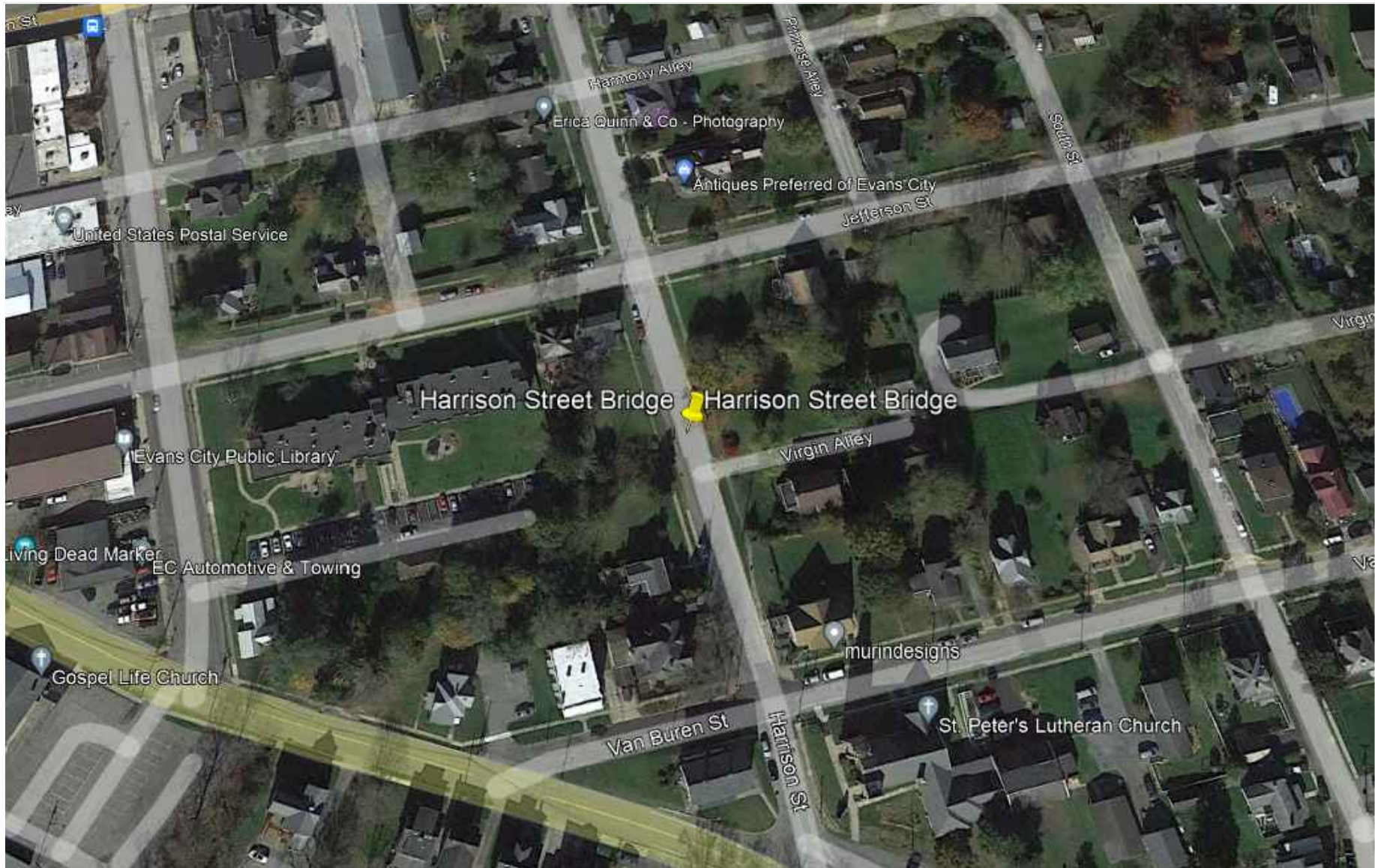




---

## **Appendix 4:** Project Location Map





File name: P:\0041\004180\_045A\Main\Finance\2022 MP\Project Location File.dwg Layout:Layout1 Aug 18, 2022 - 10:03am Available



220 West Kensington Drive, Suite 100  
Cranberry Township, PA 16066  
(724) 779-4777  
Fax (724) 779-4711  
hrg@hrg-inc.com  
www.hrg-inc.com

PROJECT LOCATION MAP  
FOR  
HARRISON STREET BRIDGE PROJECT

BOROUGH OF EVANS CITY

BUTLER COUNTY

PENNSYLVANIA

|              |            |
|--------------|------------|
| PROJ. MGR. - | BLG        |
| DESIGN -     | N/A        |
| CADD -       | KHV        |
| CHECKED -    | RLS        |
| SCALE -      | NTS        |
| DATE -       | 08-18-2022 |

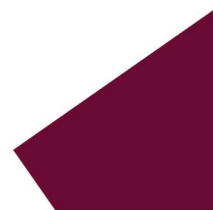
|                      |
|----------------------|
| DRAWING NO.          |
| 01                   |
| SHEET NO.            |
| 1 OF 1               |
| PROJECT P004180.045A |



---

## **Appendix 4:**

Letter of  
Support



**21ST SENATORIAL DISTRICT  
SCOTT E. HUTCHINSON**

**HARRISBURG OFFICE**  
SENATE BOX 203021  
HARRISBURG, PA 17120-3021  
(717) 787-9684  
FAX (717) 787-6088  
TTY (800) 364-1581

shutchinson@pasen.gov  
senatorscotthutchinson.com



**Senate of Pennsylvania**

July 26, 2022

Acting Secretary Neil Weaver  
PA Department of Community and Economic Development  
Commonwealth Keystone Building  
400 North Street, 4th Floor  
Harrisburg, Pennsylvania 17120-0225

Dear Acting Secretary Weaver:

Please consider this letter as evidence of my strong support for the Borough of Evans City Multimodal Transportation Fund grant funding application for the Harrison Bridge Project.

Over the last several years, deterioration of a culvert along Harrison Street has caused it to become structurally deficient and has negatively impacted community transportation access. Many residents and visitors of the Borough rely on the existing culvert which is part of a primary transportation option for residents in the Borough. Continued deterioration of this culvert threatens the viability of the Borough's daily operations, especially since it is part of the emergency vehicle route.

The scope of work included in the proposed project is as follows: removal and replacement of existing concrete culvert with a 99 linear foot aluminum box culvert structure with headwalls and wingwalls utilizing a tie back system, utility pole relocation, sanitary sewer and waterline relocation, adding storm drain inlets and routing approximately 80 linear feet of drainpipe to discharge into the stream, removal and replacement of approximately 7 cubic yards of concrete sidewalk and all associated surface restoration including asphalt course and soil and seeding.

The proposed improvements will increase overall health and safety of the residents and visitors of the Borough by providing safe and accessible alternative transportation routes and minimizing disruption within the Project area. Key outcomes include effectively replacing the existing deteriorated concrete culvert, sidewalks, utility pole and storm drain relocation. The proposed improvements will support the existing population of residents and visitors by allowing them to safely utilize Harrison Street as a transportation route. The proposed improvements will also support the Borough's daily operations and allow them to occur without interruption.

At a time when municipal governments are tasked with providing more while having less, subsidized funding and coordination between entities is necessary. It is of the utmost importance that all stakeholders are working together for the betterment of the community.

**COMMITTEES**

FINANCE  
CHAIR

INTERGOVERNMENTAL OPERATIONS  
VICE CHAIR

ENVIRONMENTAL RESOURCES & ENERGY

GAME AND FISHERIES

HEALTH & HUMAN SERVICES

LOCAL GOVERNMENT COMMISSION  
CHAIR

PA GRADE CRUDE DEVELOPMENT  
ADVISORY COUNCIL

PA HARDWOODS DEVELOPMENT COUNCIL

MAJORITY POLICY COMMITTEE

I hope all stakeholders can be patient, communicate regularly and work together so that Evans City Borough and surrounding municipalities can enjoy increased opportunities and transportation infrastructure for generations to come.

Sincerely,

A handwritten signature in black ink that reads "Scott E. Hutchinson". The signature is written in a cursive, flowing style.

Scott E. Hutchinson  
State Senator, 21<sup>st</sup> District

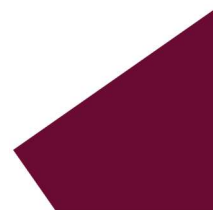
SEH/jnl

CC: Senator Jake Corman, President Pro Tempore  
Senator Kim Ward, Majority Leader



---

## **Appendix 4:** Resolution of Support



Resolutions adopted by the following members of the  
**Southwest Butler Stormwater Planning Group**, in  
support of their fellow members' grant applications to  
the Butler County Municipal Infrastructure Program,  
which are consistent with the overall recommendations  
of the unanimously adopted  
**Lower Connoquenessing Stormwater Planning Study**.

Cranberry Township Board of Supervisors

Evans City Borough Council

Forward Township Board of Supervisors

Harmony Borough Council

Jackson Township Board of Supervisors

Lancaster Township Board of Supervisors

Penn Township Board of Supervisors

Seven Fields Borough Council

Zelienople Borough Council

## **RESOLUTION NO. 2022-63**

### **A RESOLUTION OF THE (BOARD OF SUPERVISORS OF THE TOWNSHIP CRANBERRY, BUTLER COUNTY, PA) SUPPORTING THE APPLICATIONS OF THE COLLABORATING MUNICIPALITIES COMPRISING THE SOUTHWEST BUTLER STORMWATER PLANNING GROUP TO THE "BUTLER COUNTY MUNICIPAL INFRASTRUCTURE PROGRAM"**

**WHEREAS**, in 2019 Butler County experienced significant flooding events throughout the County that impacted many properties and lives in nearly every municipality in the County; and,

**WHEREAS**, County Commissioners Leslie Osche, Kim Geyer and Kevin Boozel understood multi-municipal action was needed to mitigate future flooding and organized a county-wide meeting on October 9, 2019 to urge municipalities to work together with the County on this critical issue; and,

**WHEREAS**, in response to that call to action from the County Commissioners ten municipalities in the southwestern part of the County embraced that call to action and have worked to develop strong sustainable inter-governmental relationships that have enabled municipal officials to work collaboratively in finding ways to mitigate future flooding, as it is understood that what one community does in regard to stormwater impacts their neighbors downstream; and,

**WHEREAS**, those communities have worked diligently to develop a unified approach in identifying priority projects to mitigate future flooding, which was documented in a group effort to develop the Lower Connoquenessing Stormwater Planning Study dated April 28, 2021, adopted by each of the municipal governing bodies, as well as by the Butler County Commissioners; and,

**WHEREAS**, the Butler County Commissioners has further demonstrated their commitment to mitigate future flooding by funding the Municipal Infrastructure Grant Program to support water related improvements; and,

**NOW, THEREFORE BE IT RESOLVED**, that the Cranberry Township Board of Supervisors continues to endorse this collaborative effort by supporting the applications being submitted by the members of this Group that have participated in and financially contributed to the recent planning efforts to advance stormwater projects identified by this Group, with those applications being submitted by the following members;

Boroughs of Evans City, Harmony, Seven Fields and Zelienople and the Townships of Adams, Cranberry, Forward, Jackson, Lancaster and Penn.

Borough of Evans City  
Butler County, Pennsylvania  
RESOLUTION No. 10-2022

**A RESOLUTION OF THE BOROUGH COUNCIL OF THE EVANS CITY  
BOROUGH SUPPORTING THE APPLICATIONS OF THE COLLABORATING  
MUNICIPALITIES COMPRISING THE SOUTHWEST BUTLER  
STORMWATER PLANNING GROUP TO THE "BUTLER COUNTY  
MUNICIPAL INFRASTRUCTURE PROGRAM"**

WHEREAS, in 2019 Butler County experienced horrific flooding events throughout the County that impacted many properties and lives in nearly every municipality in the County; and,

WHEREAS, County Commissioners Leslie Osche, Kim Geyer and Kevin Boozel understood multi-municipal action was needed to mitigate future flooding and organized a county-wide meeting on October 9, 2019 to urge municipalities to work together with the County on this critical issue; and,

WHEREAS, in response to that call to action from the County Commissioners ten municipalities in the southwestern part of the County embraced that call to action and have worked to develop strong sustainable inter-governmental relationships that have enabled municipal officials to work collaboratively in finding ways to mitigate future flooding, as it is understood that what one community does in regard to stormwater impacts their neighbors downstream; and,

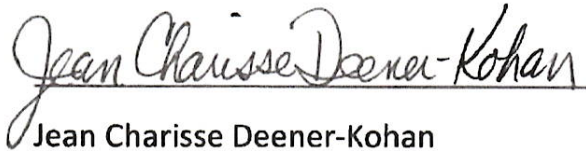
WHEREAS, those communities have worked diligently to develop a unified approach in identifying priority projects to mitigate future flooding, which was documented in a group effort to develop the Lower Connoquenessing Stormwater Planning Study dated April 28, 2021, adopted by each of the municipal governing bodies, as well as by the Butler County Commissioners; and,

WHEREAS, the Butler County Commissioners has further demonstrated their commitment to mitigate future flooding by funding the Municipal Infrastructure Grant Program to support water related improvements; and,

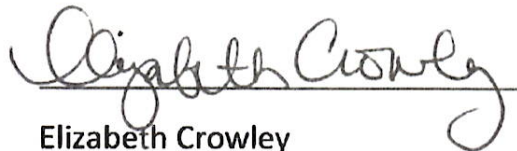
NOW, THEREFORE BE IT RESOLVED, that the Borough Council continues to endorse this collaborative effort by supporting the applications being submitted by the members of this Group to advance projects identified by this Group, with those applications being submitted by the following members;

Boroughs of Evans City, Harmony, Seven Fields and Zelienople and the Townships of Adams, Cranberry, Forward, Jackson, Lancaster and Penn.

RESOLVED, and APPROVED by the Borough Council this 1st day of August, 2022



Jean Charisse Deener-Kohan  
President  
Borough Council



Elizabeth Crowley  
Borough Secretary  
Borough of Evans City

FORWARD TOWNSHIP  
Butler County, Pennsylvania

RESOLUTION No. 5

A RESOLUTION OF THE BOARD OF SUPERVISORS OF THE TOWNSHIP of  
FORWARD TOWNSHIP SUPPORTING THE APPLICATIONS OF THE  
COLLABORATING MUNICIPALITIES COMPRISING THE SOUTHWEST BUTLER  
STORMWATER PLANNING GROUP TO THE "BUTLER COUNTY MUNICIPAL  
INFRASTRUCTURE PROGRAM"

WHEREAS, in 2019 Butler County experienced horrific flooding events throughout the County that impacted many properties and lives in nearly every municipality in the County; and,

WHEREAS, County Commissioners Leslie Osche, Kim Geyer and Kevin Boozel understood multi-municipal action was needed to mitigate future flooding and organized a county-wide meeting on October 9, 2019 to urge municipalities to work together with the County on this critical issue; and,

WHEREAS, in response to that call to action from the County Commissioners ten municipalities in the southwestern part of the County embraced that call to action and have worked to develop strong sustainable inter-governmental relationships that have enabled municipal officials to work collaboratively in finding ways to mitigate future flooding, as it is understood that what one community does in regard to stormwater impacts their neighbors downstream; and,

WHEREAS, those communities have worked diligently to develop a unified approach in identifying priority projects to mitigate future flooding, which was documented in a group effort to develop the Lower Connoquenessing Stormwater Planning Study dated April 28, 2021, adopted by each of the municipal governing bodies, as well as by the Butler County Commissioners; and,

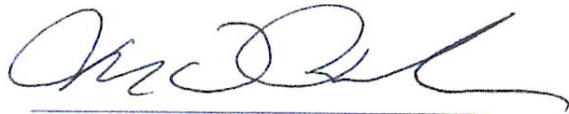
WHEREAS, the Butler County Commissioners has further demonstrated their commitment to mitigate future flooding by funding the Municipal Infrastructure Grant Program to support water related improvements; and,

NOW, THEREFORE BE IT RESOLVED, that the (Board of Supervisors/Borough Council) continues to endorse this collaborative effort by supporting the applications being submitted by the members of this Group to advance projects identified by this Group, with those applications being submitted by the following members;

Boroughs of Evans City, Harmony, Seven Fields and Zelienople and the Townships of Adams, Cranberry, Forward, Jackson, Lancaster and Penn.

RESOLVED, and APPROVED by the Board of Supervisors this 9 day of August, 2022

BOARD OF SUPERVISORS OF  
FORWARD TOWNSHIP



Melvin Musulin, Chairman



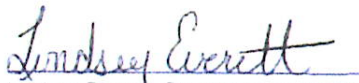
Mark Wilson, Vice Chairman



Stephen Buhler, Supervisor

Stephen  
SB

ATTEST:

  
Lindsey Everett, Secretary/Treasurer

Borough of Harmony  
Butler County, Pennsylvania  
RESOLUTION No. 2022 08 02

**A RESOLUTION OF THE BOROUGH COUNCIL OF HARMONY BOROUGH  
SUPPORTING THE APPLICATIONS OF THE COLLABORATING MUNICIPALITIES  
COMPRISING THE SOUTHWEST BUTLER STORMWATER PLANNING GROUP TO  
THE "BUTLER COUNTY MUNICIPAL INFRASTRUCTURE PROGRAM"**

WHEREAS, in 2019 Butler County experienced horrific flooding events throughout the County that impacted many properties and lives in nearly every municipality in the County; and,

WHEREAS, County Commissioners Leslie Osche, Kim Geyer and Kevin Boozel understood multi-municipal action was needed to mitigate future flooding and organized a county-wide meeting on October 9, 2019 to urge municipalities to work together with the County on this critical issue; and,

WHEREAS, in response to that call to action from the County Commissioners ten municipalities in the southwestern part of the County embraced that call to action and have worked to develop strong sustainable inter-governmental relationships that have enabled municipal officials to work collaboratively in finding ways to mitigate future flooding, as it is understood that what one community does in regard to stormwater impacts their neighbors downstream; and,

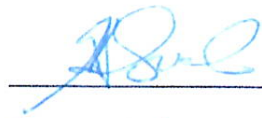
WHEREAS, those communities have worked diligently to develop a unified approach in identifying priority projects to mitigate future flooding, which was documented in a group effort to develop the Lower Connoquenessing Stormwater Planning Study dated April 28, 2021, adopted by each of the municipal governing bodies, as well as by the Butler County Commissioners; and,

WHEREAS, the Butler County Commissioners has further demonstrated their commitment to mitigate future flooding by funding the Municipal Infrastructure Grant Program to support water related improvements; and,

NOW, THEREFORE BE IT RESOLVED, that the Borough Council continues to endorse this collaborative effort by supporting the applications being submitted by the members of this Group to advance stormwater projects identified by this Group, with those applications being submitted by the following members:

Boroughs of Evans City, Harmony, Seven Fields and Zelienople and the Townships of Adams, Cranberry, Forward, Jackson, Lancaster, and Penn.

RESOLVED, and APPROVED by the Borough Council) this 2<sup>nd</sup> day of August, 2022



Gregory Such  
President  
Harmony Borough Council



Amy Brown  
Secretary  
Harmony Borough

Official

**Jackson Township**  
Butler County, Pennsylvania  
RESOLUTION No. 22-17

**A RESOLUTION OF THE BOARD OF SUPERVISORS OF THE JACKSON TOWNSHIP  
SUPPORTING THE APPLICATIONS OF THE COLLABORATING MUNICIPALITIES  
COMPRISING THE SOUTHWEST BUTLER STORMWATER PLANNING GROUP TO THE  
"BUTLER COUNTY MUNICIPAL INFRASTRUCTURE PROGRAM"**

WHEREAS, in 2019 Butler County experienced horrific flooding events throughout the County that impacted many properties and lives in nearly every municipality in the County; and,

WHEREAS, County Commissioners Leslie Osche, Kim Geyer and Kevin Boozel understood multi-municipal action was needed to mitigate future flooding and organized a county-wide meeting on October 9, 2019 to urge municipalities to work together with the County on this critical issue; and,

WHEREAS, in response to that call to action from the County Commissioners ten municipalities in the southwestern part of the County embraced that call to action and have worked to develop strong sustainable inter-governmental relationships that have enabled municipal officials to work collaboratively in finding ways to mitigate future flooding, as it is understood that what one community does in regard to stormwater impacts their neighbors downstream; and,

WHEREAS, those communities have worked diligently to develop a unified approach in identifying priority projects to mitigate future flooding, which was documented in a group effort to develop the Lower Connoquenessing Stormwater Planning Study dated April 28, 2021, adopted by each of the municipal governing bodies, as well as by the Butler County Commissioners; and,

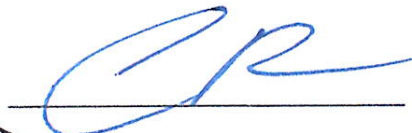
WHEREAS, the Butler County Commissioners has further demonstrated their commitment to mitigate future flooding by funding the Municipal Infrastructure Grant Program to support water related improvements; and,

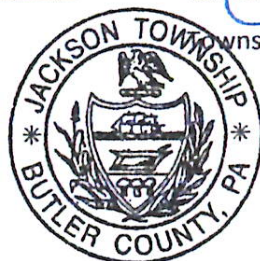
NOW, THEREFORE BE IT RESOLVED, that the (Board of Supervisors/Borough Council) continues to endorse this collaborative effort by supporting the applications being submitted by the members of this Group to advance stormwater projects identified by this Group, with those applications being submitted by the following members;

Boroughs of Evans City, Harmony, Seven Fields and Zelienople and the Townships of Adams, Cranberry, Forward, Jackson, Lancaster and Penn.

RESOLVED, and APPROVED by the Board of Supervisors this 18th day of August 2022.

  
\_\_\_\_\_  
Chairman, Jay Grinnell

  
\_\_\_\_\_  
Township Secretary, Chris Rearick



**RESOLUTION NUMBER 2022-16**  
**LANCASTER TOWNSHIP**  
**BUTLER COUNTY, PENNSYLVANIA**

**A RESOLUTION OF THE BOARD OF SUPERVISORS OF LANCASTER TOWNSHIP  
SUPPORTING THE APPLICATIONS OF THE COLLABORATING MUNICIPALITIES  
COMPRISING THE SOUTHWEST BUTLER STORMWATER PLANNING GROUP TO  
THE “BUTLER COUNTY MUNICIPAL INFRASTRUCTURE PROGRAM”**

WHEREAS, in 2019 Butler County experienced horrific flooding events throughout the County that impacted many properties and lives in nearly every municipality in the County; and,

WHEREAS, County Commissioners Leslie Osche, Kim Geyer and Kevin Boozel understood multi-municipal action was needed to mitigate future flooding and organized a county-wide meeting on October 9, 2019 to urge municipalities to work together with the County on this critical issue; and,

WHEREAS, in response to that call to action from the County Commissioners ten municipalities in the southwestern part of the County embraced that call to action and have worked to develop strong sustainable inter-governmental relationships that have enabled municipal officials to work collaboratively in finding ways to mitigate future flooding, as it is understood that what one community does in regard to stormwater impacts their neighbors downstream; and,

WHEREAS, those communities have worked diligently to develop a unified approach in identifying priority projects to mitigate future flooding, which was documented in a group effort to develop the Lower Connoquenessing Stormwater Planning Study dated April 28, 2021, adopted by each of the municipal governing bodies, as well as by the Butler County Commissioners; and,

WHEREAS, the Butler County Commissioners has further demonstrated their commitment to mitigate future flooding by funding the Municipal Infrastructure Grant Program to support water related improvements; and,

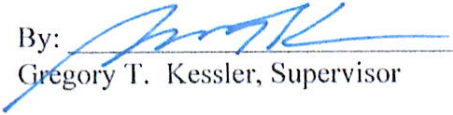
NOW, THEREFORE BE IT RESOLVED, that the Board of Supervisors continues to endorse this collaborative effort by supporting the applications being submitted by the members of this Group to advance projects identified by this Group, with those applications being submitted by the following members;

Boroughs of Evans City, Harmony, Seven Fields and Zelienople and the Townships of Adams, Cranberry, Forward, Jackson, Lancaster, and Penn.

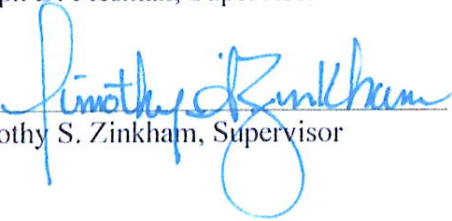
(THIS SPACE INTENTIONALLY LEFT BLANK)

ADOPTED and ENACTED on this 15<sup>th</sup> day of August 2022.

LANCASTER TOWNSHIP  
BOARD OF SUPERVISORS

By:   
Gregory T. Kessler, Supervisor

By:   
Joseph D. Plesniak, Supervisor

By:   
Timothy S. Zinkham, Supervisor

ATTEST:



C. Michael Foote

Township Manager, Secretary, Treasurer

Township of 544

Butler County, Pennsylvania

RESOLUTION No. 544

Penn Township

**A RESOLUTION OF THE (BOARD OF SUPERVISORS/BOROUGH COUNCIL) OF THE (BOROUGH of/TOWNSHIP of ) SUPPORTING THE APPLICATIONS OF THE COLLABORATING MUNICIPALITIES COMPRISING THE SOUTHWEST BUTLER STORMWATER PLANNING GROUP TO THE "BUTLER COUNTY MUNICIPAL INFRASTRUCTURE PROGRAM"**

WHEREAS, in 2019 Butler County experienced horrific flooding events throughout the County that impacted many properties and lives in nearly every municipality in the County; and,

WHEREAS, County Commissioners Leslie Osche, Kim Geyer and Kevin Boozel understood multi-municipal action was needed to mitigate future flooding and organized a county-wide meeting on October 9, 2019 to urge municipalities to work together with the County on this critical issue; and,

WHEREAS, in response to that call to action from the County Commissioners ten municipalities in the southwestern part of the County embraced that call to action and have worked to develop strong sustainable inter-governmental relationships that have enabled municipal officials to work collaboratively in finding ways to mitigate future flooding, as it is understood that what one community does in regard to stormwater impacts their neighbors downstream; and,

WHEREAS, those communities have worked diligently to develop a unified approach in identifying priority projects to mitigate future flooding, which was documented in a group effort to develop the Lower Connoquenessing Stormwater Planning Study dated April 28, 2021, adopted by each of the municipal governing bodies, as well as by the Butler County Commissioners; and,

Borough of Seven Fields  
Butler County, Pennsylvania  
RESOLUTION No. 2022-26

**A RESOLUTION OF THE BOROUGH COUNCIL OF THE BOROUGH OF  
SEVEN FIELDS SUPPORTING THE APPLICATIONS OF THE  
COLLABORATING MUNICIPALITIES COMPRISING THE SOUTHWEST  
BUTLER STORMWATER PLANNING GROUP TO THE "BUTLER COUNTY  
MUNICIPAL INFRASTRUCTURE PROGRAM"**

WHEREAS, in 2019 Butler County experienced horrific flooding events throughout the County that impacted many properties and lives in nearly every municipality in the County; and,

WHEREAS, County Commissioners Leslie Osche, Kim Geyer and Kevin Booze understood multi-municipal action was needed to mitigate future flooding and organized a county-wide meeting on October 9, 2019 to urge municipalities to work together with the County on this critical issue; and,

WHEREAS, in response to that call to action from the County Commissioners ten municipalities in the southwestern part of the County embraced that call to action and have worked to develop strong sustainable inter-governmental relationships that have enabled municipal officials to work collaboratively in finding ways to mitigate future flooding, as it is understood that what one community does in regard to stormwater impacts their neighbors downstream; and,

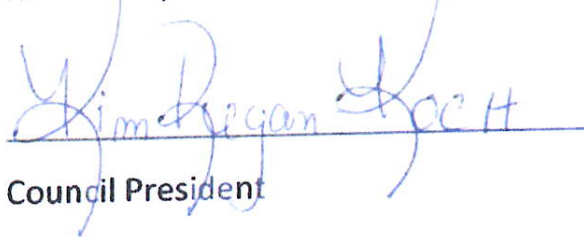
WHEREAS, those communities have worked diligently to develop a unified approach in identifying priority projects to mitigate future flooding, which was documented in a group effort to develop the Lower Connoquenessing Stormwater Planning Study dated April 28, 2021, adopted by each of the municipal governing bodies, as well as by the Butler County Commissioners; and,

WHEREAS, the Butler County Commissioners has further demonstrated their commitment to mitigate future flooding by funding the Municipal Infrastructure Grant Program to support water related improvements; and,

NOW, THEREFORE BE IT RESOLVED, that the Borough Council continues to endorse this collaborative effort by supporting the applications being submitted by the members of this Group to advance projects identified by this Group, with those applications being submitted by the following members;

Boroughs of Evans City, Harmony, Seven Fields and Zelienople and the Townships of Adams, Cranberry, Forward, Jackson, Lancaster and Penn.

RESOLVED, and APPROVED by the Borough Council) this 8<sup>th</sup> day of August, 2022

A handwritten signature in blue ink, appearing to read "Kim Regan", is written over a horizontal line.

Council President

(Borough Council)

A handwritten signature in blue ink, consisting of stylized initials, is written over a horizontal line.

Borough Secretary

**RESOLUTION #475-22**  
**BOROUGH OF ZELIENOPLE**  
Butler County, Pennsylvania

**A RESOLUTION OF THE BOROUGH COUNCIL OF ZELIENOPLE  
SUPPORTING THE APPLICATION OF THE GRANT TO THE “BUTLER  
COUNTY MUNICIPAL INFRASTRUCTURE PROGRAM” FOR A MULTI-  
MUNICIPAL STUDY OF CURRENT AND EMERGING COSTS RELATED  
TO STORMWATER MANAGEMENT**

WHEREAS in 2019 Butler County experienced horrific flooding events throughout the County that impacted many properties and lives in nearly every municipality in the County; and,

WHEREAS County Commissioners Leslie Osche, Kim Geyer and Kevin Boozel understood multi-municipal action was needed to mitigate future flooding and organized a county-wide meeting on October 9, 2019, to urge municipalities to work together with the County on this critical issue; and,

WHEREAS, in response to that call to action from the County Commissioners ten municipalities in the southwestern part of the County embraced that call to action and have worked to develop strong sustainable inter-governmental relationships that have enabled municipal officials to work collaboratively in finding ways to mitigate future flooding, as it is understood that what one community does in regard to stormwater impacts their neighbors downstream; and,

WHEREAS those communities have worked diligently to develop a unified approach in identifying priority projects to mitigate future flooding, which was documented in a group effort to develop the Lower Connoquenessing Stormwater Planning Study dated April 28, 2021, adopted by each of the municipal governing bodies, as well as by the Butler County Commissioners; and,

WHEREAS, the Butler County Commissioners has further demonstrated their commitment to mitigate future flooding by funding the Municipal Infrastructure Grant Program to support water related improvements; and,

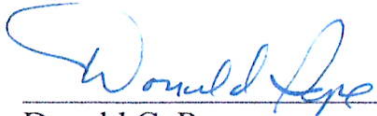
supporting the applications being submitted by the members of this Group to advance projects identified by this Group, with those applications being submitted by the following members;

Boroughs of Evans City, Harmony, Seven Fields and Zelienople and the Townships of Adams, Cranberry, Forward, Jackson, Lancaster, and Penn.

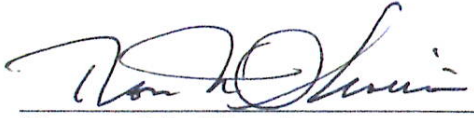
RESOLVED, and APPROVED by the Borough Council this 25<sup>th</sup> day of July 2022.

ATTEST:

BOROUGH OF ZELIENOPLE

  
\_\_\_\_\_  
Donald C. Pepe  
Borough Manager

  
\_\_\_\_\_  
Mary E. Hess  
President of Council

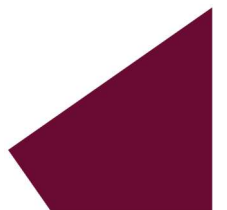
  
\_\_\_\_\_  
Thomas M. Oliverio  
Mayor



A4

## **Appendix 4:**

Lower  
Connoquenessing  
Study



## 7. EVANS CITY BOROUGH

### 7.1 Overview

Evans City Borough is generally comprised of one (1) watershed that is tributary to the Connoquenessing Creek at the western border of Butler County: Breakneck Creek. While smaller watersheds exist within Evans City Borough, the aforementioned watershed encompasses the entirety of the municipality's drainage area for this study.



Figure 4A: Evans City Borough (PADEP EMAP)

### 7.2 Identified Problem Areas

Evans City Borough provided three (3) projects for consideration. All three (3) projects are within the Breakneck Creek watershed.

- > Investigate the benefits and costs to develop a Capital Improvement/Maintenance Plan for the Borough's stormwater system. The goal for the plan would be more efficient use of resources and capital to address nuisance stormwater issues that impact the Borough.
- > Evaluate the costs to upgrade an existing stormwater conveyance system in the Borough. HRG to work with and assist the Borough in finalizing the locations after site visit and map review with the Borough. Study area most likely in the northeast portion of the Borough.
- > Evaluate upstream opportunities along Breakneck Creek to construct flood control measures that may benefit the Borough.

### 7.3 Project Overview

#### Benefit/Cost Analysis for Capital Improvement/Maintenance Plan

The Borough's stormwater system consists of a combination of storm sewers and their typical appurtenances, along with open channels and swales along some roadways. The system is ultimately tributary to Breakneck Creek, which flows primarily from southeast to northwest through the center of the Borough. The Borough allocates a portion of their annual budget to the operation and maintenance of the system, with the primary activities being repair, cleaning, or replacement of facilities in response to resident complaints or facility failure. There are numerous locations of frequent and localized flooding during rainfall events.



Figure 4B: Site Photo

Based upon HRG's field investigations and coordination with Borough officials, a primary recommendation would be for the Borough to undertake a comprehensive condition assessment of its stormwater management system, to include the identification of flooding problem areas and the identification and mapping of the Borough's stormwater assets. The results of this assessment would form the basis of an up-to-date Operation and Maintenance/Capital Improvement Plan for the system.

The intent of the Plan would be to allow the Borough to properly plan for the work and funding of not only the required annual

cleaning and maintenance activities, but for the identification, prioritization, and scheduling of recommended capital improvements and flooding mitigation projects.

The Plan could be developed in phases, to even include "simple" solutions to immediate flooding issues such as the cleaning of pipes or the installation of flap gates or backflow preventers. It would also be complimentary to the other efforts described in this report, as it should include the development of funding strategies for the implementation of conveyance system improvements and longer-term projects.

Costs for the O&M/CIP Planning Effort would range from approximately \$20,000 for an initial assessment to \$100,000 - \$150,000 for a Plan that should include mapping, project planning, conceptual design, and funding alternatives.



Figure 4C: Site Photo

## Stormwater Conveyance System Improvements

The northeast portion of the Borough has very few adequate stormwater management facilities, which include storm sewers, swales, and curbed roadways. In conjunction with the overall O&M/CIP Planning efforts, the Borough should study both the extent of the existing facilities as well as the potential for the installation of new facilities. A phased approach to their design and installation could allow for appropriate funding considerations.

The study should include surveying, mapping, determination of any required permitting, identification of grants or other funding opportunities, and levels of service that are desired.

Costs of such a study would range from \$25,000 for localized areas to approximately \$150,000 to cover the entire quadrant of the Borough.



Figure 4D: Site Photo

## Regional Flood Control Measures

Flood control measures along Breakneck Creek are not recommended at this time since a dam certification, hazard mitigation analysis, and/or a large encroachment would most likely be needed. Most importantly, a dam within the Breakneck Creek watershed would move flooding from one place to another, thus creating a new problem along Breakneck Creek upstream of Evans City Borough. However, improvements within the Breakneck Creek watershed are proposed within this study for multiple municipalities upstream of Evans City Borough.