



State of Ohio
Public Works Commission
Application for Financial Assistance

IMPORTANT: Please consult "Instructions for Financial Assistance for Capital Infrastructure Projects" for guidance in completion of this form.

Applicant

Applicant: Williams County Subdivision Code: 171-00171

District Number: 5 County: Williams Date: 09/08/2020

Contact: Dan Clum Phone: (419) 636-2454
(The individual who will be available during business hours and who can best answer or coordinate the response to questions)

Email: dclum@wmscoengineer.com FAX: (419) 636-8687

Project

Project Name: 2021 Bridge Replacement Program Zip Code: 43506

Subdivision Type	Project Type	Funding Request Summary
<small>(Select one)</small>	<small>(Select single largest component by \$)</small>	<small>(Automatically populates from page 2)</small>
<input checked="" type="checkbox"/> 1. County	<input type="checkbox"/> 1. Road	Total Project Cost: <u>299,272 .00</u>
<input type="checkbox"/> 2. City	<input checked="" type="checkbox"/> 2. Bridge/Culvert	1. Grant: <u>149,000 .00</u>
<input type="checkbox"/> 3. Township	<input type="checkbox"/> 3. Water Supply	2. Loan: <u>0 .00</u>
<input type="checkbox"/> 4. Village	<input type="checkbox"/> 4. Wastewater	3. Loan Assistance/ Credit Enhancement: <u>0 .00</u>
<input type="checkbox"/> 5. Water (6119 Water District)	<input type="checkbox"/> 5. Solid Waste	Funding Requested: <u>149,000 .00</u>
	<input type="checkbox"/> 6. Stormwater	

District Recommendation (To be completed by the District Committee)

Funding Type Requested	SCIP Loan - Rate: _____ % Term: _____ Yrs	Amount: _____ .00
<small>(Select one)</small>		
<input type="checkbox"/> State Capital Improvement Program	RLP Loan - Rate: _____ % Term: _____ Yrs	Amount: _____ .00
<input type="checkbox"/> Local Transportation Improvement Program	Grant:	Amount: _____ .00
<input type="checkbox"/> Revolving Loan Program	LTIP:	Amount: _____ .00
<input type="checkbox"/> Small Government Program	Loan Assistance / Credit Enhancement:	Amount: _____ .00
District SG Priority: _____		

For OPWC Use Only

STATUS	Grant Amount: _____ .00	Loan Type: <input type="checkbox"/> SCIP <input type="checkbox"/> RLP
Project Number: _____	Loan Amount: _____ .00	Date Construction End: _____
	Total Funding: _____ .00	Date Maturity: _____
Release Date: _____	Local Participation: _____ %	Rate: _____ %
OPWC Approval: _____	OPWC Participation: _____ %	Term: _____ Yrs

1.0 Project Financial Information (All Costs Rounded to Nearest Dollar)

1.1 Project Estimated Costs

Engineering Services

Preliminary Design:	_____	.00	
Final Design:	_____	4,800	.00
Construction Administration:	_____	1,500	.00
Total Engineering Services:	a.) _____	6,300	.00 2 %
Right of Way:	b.) _____	.00	
Construction:	c.) _____	265,429	.00
Materials Purchased Directly:	d.) _____	.00	
Permits, Advertising, Legal:	e.) _____	1,000	.00
Construction Contingencies:	f.) _____	26,543	.00 10 %
Total Estimated Costs:	g.) _____	299,272	.00

1.2 Project Financial Resources

Local Resources

Local In-Kind or Force Account:	a.) _____	73,014	.00
Local Revenues:	b.) _____	77,258	.00
Other Public Revenues:	c.) _____	.00	
ODOT / FHWA PID: _____	d.) _____	.00	
USDA Rural Development:	e.) _____	.00	
OEPA / OWDA:	f.) _____	.00	
CDBG:	g.) _____	.00	
<input type="checkbox"/> County Entitlement or Community Dev. "Formula"			
<input type="checkbox"/> Department of Development			
Other: _____	h.) _____	.00	
Subtotal Local Resources:	i.) _____	150,272	.00 50 %

OPWC Funds (Check all requested and enter Amount)

Grant: <u>100</u> % of OPWC Funds	j.) _____	149,000	.00
Loan: <u>0</u> % of OPWC Funds	k.) _____	.00	
Loan Assistance / Credit Enhancement:	l.) _____	0	.00
Subtotal OPWC Funds:	m.) _____	149,000	.00 50 %
Total Financial Resources:	n.) _____	299,272	.00 100 %

1.3 Availability of Local Funds

Attach a statement signed by the Chief Financial Officer listed in section 5.2 certifying all local resources required for the project will be available on or before the earliest date listed in the Project Schedule section. The OPWC Agreement will not be released until the local resources are certified. Failure to meet local share may result in termination of the project. Applicant needs to provide written confirmation for funds coming from other funding sources.

2.0 Repair / Replacement or New / Expansion

2.1 Total Portion of Project Repair / Replacement:	_____ 299,272 .00	_____ 100 %
2.2 Total Portion of Project New / Expansion:	_____ 0 .00	_____ 0 %
2.3 Total Project:	_____ 299,272 .00	_____ 100 %

A Farmland Preservation letter is required for any impact to farmland

3.0 Project Schedule

3.1 Engineering / Design / Right of Way	Begin Date: <u>10/01/2020</u>	End Date: <u>05/27/2021</u>
3.2 Bid Advertisement and Award	Begin Date: <u>06/08/2021</u>	End Date: <u>06/29/2021</u>
3.3 Construction	Begin Date: <u>08/01/2021</u>	End Date: <u>09/30/2020</u>

Construction cannot begin prior to release of executed Project Agreement and issuance of Notice to Proceed.

Failure to meet project schedule may result in termination of agreement for approved projects. Modification of dates must be requested in writing by project official of record and approved by the Commission once the Project Agreement has been executed.

4.0 Project Information

If the project is multi-jurisdictional, information must be consolidated in this section.

4.1 Useful Life / Cost Estimate / Age of Infrastructure

Project Useful Life: 50 Years Age: 1949 (Year built or year of last major improvement)

Attach Registered Professional Engineer's statement, with seal or stamp and signature confirming the project's useful life indicated above and detailed cost estimate.

4.2 User Information

Road or Bridge: Current ADT 1,005 Year 2020 Projected ADT _____ Year _____

Water / Wastewater: Based on monthly usage of 4,500 gallons per household; attach current ordinances.

Residential Water Rate Current \$ _____ Proposed \$ _____

Number of households served: _____

Residential Wastewater Rate Current \$ _____ Proposed \$ _____

Number of households served: _____

Stormwater: Number of households served: _____

4.3 Project Description

- A: SPECIFIC LOCATION (Supply a written location description that includes the project termini; a map does not replace this requirement.) 500 character limit.

Bridge located at 18430 County Road F

Bridge located at 19700 County Road R

Bridge located at 02240 County Road 1

- B: PROJECT COMPONENTS (Describe the specific work to be completed; the engineer's estimate does not replace this requirement) 1,000 character limit.

The bridge replacement of the 12' slab on County Road F will replace the 3A bridge with a sufficiency rating of 48.9 with an aluminum structural plate pipe, load rated to today's HL93 and SHV requirements. The work will include the demolition of the existing bridge, replacement, road repair, and cleanup.

The bridge replacement of the 14' slab on County Road R will replace the 3A bridge with a sufficiency rating of 41.5 with an aluminum box structural plate pipe, load rated to today's HL93 and SHV requirements. The work will include the demolition of the existing bridge, replacement, road repair, and cleanup.

The bridge replacement of the 12' slab on County Road 1 will replace the 4A bridge with a sufficiency rating of 48.9 with an aluminum box culvert load rated to today's HL93 and SHV requirements. The work will include the demolition of the existing bridge, replacement, road repair, and cleanup.

- C: PHYSICAL DIMENSIONS (Describe the physical dimensions of the existing facility and the proposed facility. Include length, width, quantity and sizes, mgd capacity, etc in detail.) 500 character limit.

The bridge on CR F is a 12' span concrete slab bridge. The CPA will be 11'-5"x7'-1" and roughly 60 feet long.

The bridge on CR R is a 14' span concrete slab bridge. The CPA will be 12'-7"x7'-5" and roughly 60 feet long.

The bridge on CR 1 is a 12' span concrete slab bridge. The aluminum box culvert will be 12'-7"x5'-2" and roughly 50 feet long.

5.0 Project Officials

Changes in Project Officials must be submitted in writing from an officer of record.

5.1 Chief Executive Officer

(Person authorized in legislation to sign project agreements)

Name: Lewis Hilkert
Title: President Board of Commissioners
Address: One Courthouse Square
4th Floor
City: Bryan State: OH Zip: 43506
Phone: (419) 636-2059
FAX: (419) 636-0643
E-Mail: lhilkert@wmsco.org

5.2 Chief Financial Officer

(Can not also serve as CEO)

Name: Vickie Grimm
Title: Williams County Auditor
Address: One Courthouse Square
2nd Floor
City: Bryan State: OH Zip: 43506
Phone: (419) 636-5639
FAX: (419) 636-8584
E-Mail: vgrimm@wmsco.org

5.3 Project Manager

Name: Todd Roth, PE, PS
Title: Williams County Engineer
Address: 12953 County Road G

City: Bryan State: OH Zip: 43506
Phone: (419) 636-2454
FAX: (419) 636-8687
E-Mail: troth@wmscoengineer.com

6.0 Attachments / Completeness review

Confirm in the boxes below that each item listed is attached (Check each box)

- A certified copy of the legislation by the governing body of the applicant authorizing a designated official to sign and submit this application and execute contracts. This individual should sign under 7.0, Applicant Certification, below.
- A certification signed by the applicant's chief financial officer stating the amount of all local share funds required for the project will be available on or before the dates listed in the Project Schedule section. If the application involves a request for loan (RLP or SCIP), a certification signed by the CFO which identifies a specific revenue source for repaying the loan also must be attached. Both certifications can be accomplished in the same letter.
- A registered professional engineer's detailed cost estimate and useful life statement, as required in 164-1-13, 164-1-14, and 164-1-16 of the Ohio Administrative Code. Estimates shall contain an engineer's seal or stamp and signature.
- A cooperative agreement (if the project involves more than one subdivision or district) which identifies the fiscal and administrative responsibilities of each participant.
- Farmland Preservation Review - The Governor's Executive Order 98-IV, "Ohio Farmland Protection Policy" requires the Commission to establish guidelines on how it will take protection of productive agricultural and grazing land into account in its funding decision making process. Please include a Farm Land Preservation statement for projects that have an impact on farmland.
- Capital Improvements Report. CIR Required by O.R.C. Chapter 164.06 on standard form.
- Supporting Documentation: Materials such as additional project description, photographs, economic impact (temporary and/or full time jobs likely to be created as a result of the project), accident reports, impact on school zones, and other information to assist your district committee in ranking your project. Be sure to include supplements which may be required by your local District Public Works Integrating Committee.

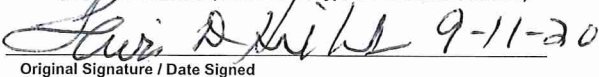
7.0 Applicant Certification

The undersigned certifies: (1) he/she is legally authorized to request and accept financial assistance from the Ohio Public Works Commission as identified in the attached legislation; (2) to the best of his/her knowledge and belief, all representations that are part of this application are true and correct; (3) all official documents and commitments of the applicant that are part of this application have been duly authorized by the governing body of the applicant; and, (4) should the requested financial assistance be provided, that in the execution of this project, the applicant will comply with all assurances required by Ohio Law, including those involving Buy Ohio and prevailing wages.

Applicant certifies that physical construction on the project as defined in the application has NOT begun, and will not begin until a Project Agreement for this project has been executed with the Ohio Public Works Commission. Action to the contrary will result in termination of the agreement and withdrawal of Ohio Public Works Commission funding from the project.

Lewis Hilker, President Board of Commissioners

Certifying Representative (Printed form, Type or Print Name and Title)

 9-11-20

Original Signature / Date Signed

District 5
Capital Improvement Project
Priority Rating Sheet, Round 35

COUNTY:		WILLIAMS										PROJECT NUMBER								
PROJECT:		2021 BRIDGE REPLACEMENT PROGRAM																		
EST. COST:		\$299,272																		
No.	WEIGHT FACTOR	CRITERIA TO BE CONSIDERED	PRIORITY FACTORS										No.							
			0	2	4	6	8	10	0	2	4	6		8	10					
1	1	(REPAIR OR REPLACE) vs. (NEW OR EXPANSION)									X	10	0%+	20%+	40%+	60%+	80%+	100%+	1	
2A	1	EXISTING PHYSICAL CONDITION <small>Please refer to Criteria #2 of the Round 35 Scoring Methodology. Must submit substantiating documentation. (100% New or Expansion = 0 Points)</small>									X	10	Excellent	Good	Fair	Fading	Poor	Falling	2A	
2B	1	AGE									X	5	Type	0	1	2	3	4	5	2B
													Road	0-4 Yrs	5-8 Yrs	9-12 Yrs	13-16 Yrs	17-20 Yrs	20+ Yrs	
													Wastewater	0-8 Yrs	7-12 Yrs	13-18 Yrs	19-24 Yrs	25-30 Yrs	30+ Yrs	
													Bridge/Culvert, Sanitary Sewer, Water Supply, Storm Water, Solid Waste	0-10 Yrs	11-20 Yrs	21-30 Yrs	31-40 Yrs	41-50 Yrs	50+ Yrs	
3	2	PUBLIC HEALTH AND/OR SAFETY CONCERNS <small>Submittals without supporting documentation will receive 0 points for this question.</small>									X	20	No Impact	Minimal	Moderate	Major	Critical	Extremely Critical	3	
4	2	LOCAL MATCHING FUNDS <small>Percentage of Local Share (Local funds are funds derived from the applicant budget or a loan to be paid back through the applicant budget, assessments, rates or tax revenues) *</small>									X	20	0%	10%	20%	30%	40%	50%	4	
5	1	OTHER FUNDING <small>(Excluding Issue II Funds) <small>(Grants and other revenues not contributed or collected through taxes by the applicant; including Gifts, Contributions, etc. - must submit copy of award or status letter.)</small></small>										0	0%	10%	20%	30%	40%	50%	5	
6		OPWC GRANT AND LOAN FUNDS REQUESTED <small>Please refer to Criteria #6 of the Round 35 Methodology for clarification.</small>																	6	
	2	Grant or Loan Only																	6	
	2	Grant/Loan Combination																	6	
<small>When scoring a project that is only grant or only loan, please use the chart labeled "Grant or Loan Only". When scoring a grant/loan combination, score the project for the grant in the first chart, then use the second chart labeled "Grant/Loan Combination" to score the total (grant and loan combined). Use the lower of the two as the score.</small>																				
7	1	JOB CREATION/RETENTION <small>Indicate full time equivalent jobs, include supporting documentation in the form of a commitment letter from business or third party entity.</small>										0	0-6 Jobs	7-14 Jobs	15-24 Jobs	25+ Jobs			7	
8	1	BENEFIT TO EXISTING USERS <small>(households or traffic counts) equivalent crossing unit direct connections. Traffic Counts within two years with certified documentation, etc.</small>									X	10	0-99 Users	100 - 349 Users	350 - 499 Users	500 - 749 Users	750 - 1000 Users	1000+ Users	8	
9	1	ECONOMIC DISTRESS <small>Local MH as a percentage of the District Median MH</small>										0	100%+	80%-100%	Less Than 80%				9	
10	1	READINESS TO PROCEED										2	Plans Not Begun Yet	Preliminary Engineering Complete	Final Design Complete				10	
11		SUBTOTAL RANKING POINTS (MAX = 115)																	97	
12		COUNTY SUBCOMMITTEE PRIORITY POINTS (26-20-15)																		
13A		DISCRETIONARY POINTS (BY DISTRICT ONLY) (MAX=1)																		
13B		DISCRETIONARY POINTS (BY DISTRICT ONLY) (MAX=1)																		
14		GRAND TOTAL RANKING POINTS																		

* Applicants must certify local and other share contributions. Specify, all funding sources to be utilized as local share at the time of application submittal.

Revised: December 17, 2019

Supplemental Application Instructions

Prerequisites for Project Consideration

Manner of submittal items:

- 1) Must be one-sided, 8.5" x 11".
- 2) No dividers or cover sheets (a summary sheet may be submitted with "other documentation").
- 3) No Binding. A binder clip, folder, punch-less binder (has a clamp that holds papers together) are OK. No staples.

Format of application:

- 1) All must be in whole dollars (no cents).
- 2) Cannot use all caps.
Page 4 of application must contain relevant information about project and not "see attached". If it will not fit in space provided, list what will fit and attach one supplement document to complete the information.
- 3) Page 3 must designate households or ADT ONLY for the direct area of the infrastructure. (Cannot count downstream or system users). Majority infrastructure type determines how project is scored when there are multiple components.

Order and completeness of items:

- 1) ___ OPWC six page application
- 2) ___ Authorizing Legislation authorizing CEO to enter into agreements with OPWC.
- 3) ___ Certification of funds/Loan Repayment following sample provided.
- 4) ___ A registered professional engineer's detailed cost estimate and useful life statement with seal or stamp and signature
- 5) ___ Co-operative Agreement (if applicable)
- 6) ___ Findings and Orders, Traffic Count, Job Creation or Retention and any other items to support scoring.
- 7) Other items
 - a. Maps
 - b. Pictures
 - c. Summary Sheet
 - d. Letters supporting project
 - e. Any other items deemed relevant to the project.

Project Cost Overruns/Changes in Scope Procedure

- 1) The applicant will prepare an amended application including a revised budget, revised engineering estimate, and a detailed explanation of the change(s) requested.
- 2) The amendment is due to the District 5 Liaison thirty days in advance of the date of the scheduled District 5 Executive Committee Meeting.

Revolving Loan Prioritization

- 1) RLP funds are funds repaid from previous loans. The money can only be used for loans. No grants may be made with the funds.
- 2) The interest rate for RLP Loans is established by the Executive committee at zero percent per year for the useful life of the improvement.
- 3) RLP Loans will be offered to projects based on the ranking of projects on the SCIP Slate. Consideration will be given to projects in order of score based on initial grant or grant/loan request, until the RLP funds are expended.

Evaluation Questionnaire and Priority Rating Sheet

- 1) Each application to District 5 shall be rated using the District 5 Capital Improvements Project Questionnaire and Priority Rating Sheet as adopted by the District 5 Executive Committee.
- 2) For Villages and Township with populations less than 5,000 special attention is called to the potential eligibility for Small Government Funding consideration. The scoring for the Small Government Program is established and implemented by the Ohio Public Works Commission. This program has an additional set of Evaluation Methodology. Each applicant should familiarize themselves with this methodology when planning your project funding request. If your project is not selected for District Funding each applicant under 5,000 in population will be considered for selection as a potential Small Government Project.

6	Fading	The condition requires reconditioning to continue to function as originally intended.	-Single course of paving -Sewer Lining Projects -Water tower painting -Replacement of pumps, hydrants, valves, filters, etc in existing water and sewer systems-Widening aggregate berm on existing graded shoulder width
4	Fair	The condition is average, not good or poor. The infrastructure is still functioning as originally intended. Minor deficiencies exist requiring repair to continue to function as originally intended and/or to meet current design standards	
2	Good	The condition is safe and suitable to purpose. Infrastructure is functioning as originally intended, but requires minor repairs and/or upgrades to meet current design standards	
0	Excellent	The condition is new or requires no repair. Or, no supporting documentation has been submitted	

2b. Age of Infrastructure **ORC Reference(s):164.06(B)(2)**

Life	20	30	50
Project Type	Road	Wastewater and Water Treatment	Bridge/Culvert, Sanitary Sewer, Water Supply, Storm Water, Solid Waste
Points			
0	0-4 Years	0-6 Years	0-10 Years
1	5-8 Years	7-12 Years	11-20 Years
2	9-12 Years	13-18 Years	21-30 Years
3	13-16 Years	19-24 Years	31-40 Years
4	17-20 Years	25-30 Years	41-50 Years
5	20+ Years	30+ Years	X 50+ Years

3. Health and Safety Rating: **ORC Reference(s):164.06(B)(4),164.14(E)(1); 164.14(E)(10)**

If the proposed project is not approved what category would best represent the impact on the general health and/or public safety?

ROADS

Extremely Critical: Resurfacing, Restoration, Rehabilitation and Reconstruction (4R) of a Major Access Road.*

Critical: Resurfacing, Restoration and Rehabilitation (3R) of a Major Access Road.*

Major:	Resurfacing, Restoration, Rehabilitation and Reconstruction (4R) of a Minor Access Road.*
Moderate:	Resurfacing, Restoration and Rehabilitation (3R) of a Minor Access Road.*
Minimal:	Preventative Maintenance of a Major Access Road.
No Impact:	Preventative Maintenance of a Minor Access Road.

Projects that have a variety of work will be scored in the LOWEST category of work contained in the Construction Estimate.

Road/Street Classifications:

Major Access Road: Roads or streets that have a dual function of providing access to adjacent properties and providing through or connecting service between other roads.

Minor Access Road: Roads or streets that primarily provide access to adjacent properties without through continuity, such as cul-de-sacs or loop roads or streets.

Preventative Maintenance: Non Structural Pavement work such as chip sealing, cape sealing, micro-surfacing, crack sealing, etc.

*(3R) Resurfacing, Restoration and Rehabilitation - Improvements to existing roadways, which have as their main purpose, the restoration of the physical features (pavement, curb, guardrail, etc.) without altering the original design elements. **(Surface and Intermediate layer Mill and Fills, overlays with less than or equal to 3.5" of additional pavement, etc....)**

*(4R) Resurfacing, Restoration, Rehabilitation and Reconstruction - Much like 3R, except that 4R allows for the complete reconstruction of the roadway and alteration of certain design elements (i.e., lane widths, shoulder width, SSD, **overlays with greater than 3.5" of additional pavement.** etc.).

BRIDGES SUFFICIENCY RATING

- X** Extremely Critical: 0-25, or a General Appraisal rating of 3 or less.
- Critical: 27-50, or a General Appraisal rating of 4.
- Major: 51-65 or a General Appraisal rating of 5 or 6.
- Moderate: 66-80 or a General Appraisal rating of 7.
- Minimal: 81-100 or a General Appraisal rating of more than 7.
- No Impact: Bridge on a new roadway.

WASTEWATER TREATMENT PLANTS

Extremely Critical: Environmental Protection Agency (EPA) orders in the form of a consent decree, findings and orders or court order. Health Department Construction Ban.

- Critical: Improvements ordered by the Environmental Protection Agency (EPA) in the form of NPDES Orders.
- Major: Replace deficient appurtenances. Update existing processes due to EPA recommendations.
- Moderate: Increase capacity to meet current needs or update processes to improve effluent quality.
- Minimal: New/Expansion project to meet a specific development proposal.
- No Impact: New/Expansion to meet future or projected needs.

WATER TREATMENT PLANT

- Extremely Critical: EPA orders in the form of a consent decree, findings and orders or court order.
- Critical: Improvements to meet Environmental Protection Agency (EPA) Safe Drinking Water Regulations and/or NPDES Orders.
- Major: Replace deficient appurtenances. Update existing processes due to EPA recommendations.
- Moderate: Increase capacity to meet current needs or update processes to improve water quality.
- Minimal: New/Expansion project to meet a specific development proposal.
- No Impact: New/Expansion to meet future or projected needs.

COMBINED SEWER SEPARATIONS (May be construction of either new storm or sanitary sewer as long as the result is two separate sewer systems.)

- Extremely Critical: EPA orders in the form of a consent decree, findings and orders or court order. Health Department Construction Ban.
- Critical: Separate, due to chronic backup or flooding in basements.
- Major: Separate, due to documented water quality impairment, or due to EPA recommendations.
- Moderate: Separate, due to specific development proposal within or upstream of the combined system area.
- Minimal: Separate, to conform to current design standards.
- No Impact: No positive health effect.

STORM SEWERS

- Extremely Critical: EPA orders in the form of a consent decree, findings and orders or court order.
- Critical: Chronic flooding (structure damage).
- Major: Inadequate capacity (land damage).
- Moderate: Inadequate capacity with no associated damage.
- Minimal: New/Expansion to meet current needs.
- No Impact: New/Expansion to meet future or project needs.

CULVERTS

- Extremely Critical: Structurally deficient or functionally obsolete. Deterioration has already caused a safety hazard to the public.
- Critical: Inadequate capacity with land damage and the existing or high probability of property damage.
- Major: Inadequate capacity (land damage).
- Moderate: Inadequate capacity with no associated damage.
- Minimal: New/Expansion to meet current needs.
- No Impact: New/Expansion to meet future or projected needs.

SANITARY SEWERS

- Extremely Critical: EPA orders in the form of a consent decree, findings and orders or court order. Health Department Construction Ban.
- Critical: Replace, due to chronic pipe failure, chronic backup or flooding in basements. Improvements ordered by the Environmental Protection Agency (EPA) in the form of NPDES Orders.
- Major: Replace, due to inadequate capacity or infiltration, or due to EPA recommendations.
- Moderate: Rehabilitate to increase capacity to meet current needs or to reduce inflow and infiltration.
- Minimal: New/Expansion project to meet a specific development proposal.
- No Impact: New/Expansion to meet future or projected needs.

SANITARY LIFT STATIONS AND FORCE MAINS

- Extremely Critical: Structurally deficient. Deterioration has already caused a safety/health hazard to the public, or, EPA orders in the form of a consent decree, findings and orders or court order.
- Critical: Inadequate capacity with actual or a high probability of property damage. Improvements ordered by the Environmental Protection Agency (EPA) in the form of NPDES Orders.
- Major: EPA recommendations, or, reduces a probable health and/or safety problem.
- Moderate: Rehabilitate to increase capacity to meet current needs.
- Minimal: New/Expansion to meet a specific development proposal.
- No Impact: New/Expansion to meet future or projected needs.

WATER PUMP STATIONS

- Extremely Critical: Structurally deficient. Deterioration has already caused a safety hazard to the public, or, EPA orders in the form of a consent decree, findings and orders or court order.
- Critical: Inadequate capacity with the inability to maintain pressure required for fire flows.
- Major: Replace due to inadequate capacity or EPA recommendations.
- Moderate: Rehabilitate to increase capacity to meet current needs.
- Minimal: New/Expansion to meet a specific development proposal.
- No Impact: New/Expansion to meet future or projected needs.

WATER LINES/WATER TOWERS

- Extremely Critical: Solve low water pressure or excessive incidents of main breaks in project area.
- Critical: Replace, due to deficiency such as excessive corrosion, etc.
- Major: Replace undersized water lines as upgrading process.
- Moderate: Increase capacity to meet current needs.
- Minimal: New/Expansion project to meet a specific development proposal.
- No Impact: New/Expansion to meet future or projected needs.

OTHER

- Extremely Critical: There is a present health and/or safety threat.

Critical: The project will provide immediate health and/or safety benefit.

Major: The project will reduce a probable health and/or safety problem.

Moderate: The project will delay a health and/or safety problem.

Minimal: A possible future health and/or safety problem mitigation.

No Impact: No health and/or safety effect.

NOTE: Combined projects that can be rated in more than one subset may be rated in the other category at the discretion of the District 5 Executive Committee. In general, the majority of the cost or scope of the project shall determine the category under which the project will be scored.

(Submittals without supporting documentation will receive 0 Points for this question.)

Extremely Critical , Critical ____, Major ____, Moderate ____, Minimal ____, No Impact ____. Explain your answer.

(Additional narrative, charts and/or pictures should be attached to questionnaire)

4. Identify the amount of local funds that will be used on the project as a percentage of the total project cost. **ORC Reference 164.06(B)(6); ORC 164.06(B)(3)**

A.) Amount of Local Funds = \$ 150,272

B.) Total Project Cost = \$ 299,272

RATIO OF LOCAL FUNDS DIVIDED by TOTAL PROJECT COSTS (A÷B)= 50 %

Note: Local funds should be considered funds derived from the applicant budget or loans funds to be paid back through local budget, assessments, rates or tax revenues collected by the applicant.

5. Identify the amount of other funding sources to be used on the project, excluding SCIP or LTIP Funds, as a percentage of the total project cost. **ORC Reference(s): 164.06(B)(7); 164.14(E)(4)**

Grants ____% Gifts ____%, Contributions ____%

Other ____% (explain) _____, Total ____%

Note: Grant funds and other revenues not contributed or collected through taxes by the applicant should be considered other funds. The Scope of Work for each Funding Source must be the same.

6. Total Amount of SCIP and Loan Funding Requested- An Applicant can request a grant per the categories below for points as indicated on the Priority Rating Sheet. If the Applicant is including a loan request equal to, but not exceeding 50% of the OPWC funding amounts listed below, there will be no point penalty. If loan funds requested are more than 50%, points as listed in the Priority Rating Sheet will apply. **ORC Reference(s): 164.14(E)(10); 164.06(B)(5)**

- _____ \$500,001 or More
- _____ \$400,001-\$500,000
- _____ \$325,001-\$400,000
- _____ \$275,001-\$325,000
- _____ \$175,001-\$275,000
- _____ \$175,000 or Less

There are times when the District spends all of the grant money and has loan money remaining. When this happens, the district makes a loan offer in the amount of the requested grant to the communities that were not funded. The offers are made in the order of scoring. We need to know if you are not successful in obtaining grant dollars for your project if you would be interested in loan money:

YES _____ NO X

(This will only be considered if you are not funded with grant money and there is remaining loan money.) **Please note: if you answer “no” you will not be contacted, only if you answer “yes” will an offer be made in the event that there is loan money remaining.**

7. If the proposed project is funded, will its completion directly result in the creation of permanent full-time equivalent (FTE) jobs (FTE jobs shall be defined as 35 hours/week) ? Yes ___ No X. If yes, how many jobs within eighteen months? ___ Will the completed project retain jobs that would otherwise be permanently lost? Yes ___ No _____. If yes, how many jobs _____ **will be created/retrained** within 18 months **following the completion of the improvements?**

ORC Reference(s): 164.14(E)(3);164.14(E)(10)

(Supporting documentation in the form of letter from affected industrial or commercial enterprises that specify full time equivalent jobs that will be retained or created directly by the installation or improvement of Public infrastructure. Additional items such as; 1) newspaper articles or other media news accounts, 2) public meeting minutes, and/or 3) a letter from the County Economic Development Director or State of Ohio Economic Development Professional that alludes to the requirement for the infrastructure improvement to support the business. Submittals without supporting documentation will receive 0 points for this question.)

8. What is the total number of existing users that will directly benefit from the proposed project if completed? 1109 (Use households served, traffic counts, etc. and explain the basis by which you arrived at your number.) **ORC Reference 164.14(E)(7); 164.06(B)(10)**

9. Economic Distress Criteria **ORC Reference 164.06(B)(8)**

What is the Local Median Household Income as a percentage of the District Median Household Income? 0 %. Please utilize the Economic Distress Scoring Criteria based on ACS 2013-2017 Data provided in Exhibit A.

10. Readiness to Proceed Criteria **ORC Reference 164.06(B)(9); ORC 164.14(E)(5)**

Please categorize the status of planning and design elements for the project.

- _____ Plans have not begun yet (0 Points)
- _____ Preliminary Engineering Complete (1 Point)
- X Final Design Complete (2 Points)

11. Base Score Total for Questions 1-10= 97

12. County Subcommittee Priority Points= _____
(25-20-15 Points for each of the SCIP and LTIP Project Categories)

13. DISCRETIONARY POINTS (BY DISTRICT COMMITTEE ONLY)

13a. A **District Discretionary Point** may be awarded to projects that demonstrate significant Area-wide, County, or Community Impact. (Include documentation to support the claim of significance)
(Maximum of 1 Point at the discretion of the District Executive Committee) _____

ORC Reference 164.14(E)(7)

13b. A **District Discretionary Point** may be awarded to projects that demonstrate that the entity has maximized local financial resources including assessments. Provide a Fund Status Report and/or the water and sanitary waste utility rate structures are at least 2.5% of area median household income for combined systems and 1.5% of the area median household income for water and sanitary only systems. Please provide rate ordinances for water and sanitary sewer to be considered for discretionary points. (Maximum of 1 Point at the discretion of the District 5 Executive Committee) _____ **ORC Reference 164.06(B)(3)**

14. **Grand Total of Points** _____

15. Is subdivision's population less than 5,000 Yes No ___ If yes, continue. You may want to design your project per Small Government Project Evaluation Criteria, released for the current OPWC Round to assist in evaluating your project for potential Small Government Funding. The Small Government Criteria is available on the OPWC website at

<https://www.pwc.ohio.gov/Portals/0/Data/SmallGovernment%20Round%2035%20Methodology.pdf?ver=2019-08-07-071749-143>

16. **OHIO PUBLIC WORKS COMMISSION SMALL GOVERNMENT PROGRAM GUIDELINES**

All projects that are sponsored by a subdivision with a population of 5,000 or less, and not earning enough points for District Funding from SCIP or LTIP Funds, are then rated using the Small

Government Program Rating Criteria for the corresponding funding round. In order to be rated the entity must submit the Small Government Supplement and their required budgets with their application. **Only infrastructure that is village- or township- owned is eligible for assistance.** The following policies have been adopted by the Small Government Commission:

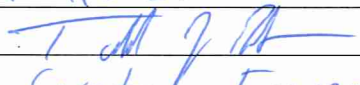
- District Integrating Committees may submit up to seven (7) applications for consideration by the Commission. All 7 must be ranked, however, only the top five (5) will be scored. The remaining two (2) will be held as contingency projects should an application be withdrawn.
- Grants are limited to \$500,000. Any assistance above that amount must be in the form of a loan.
- Grants for new or expanded infrastructure cannot exceed 50% of the project estimate.
- The Commission may deny funding for water and sewer systems that are deemed to be more cost-effective if regionalized.
- If a water or sewer project is determined to be affordable, the project will be offered a loan rather than a grant. Pay special attention to the **Water & Wastewater Affordability Supplemental and the Small Government Water & Wastewater Affordability Calculation Worksheet. Both are available on the Small Government Program Tab at <https://www.pwc.ohio.gov/Programs/Infrastructure-Programs/Small-Government>**
- Should there be more projects that meet the “annual score” than there is funding, the tie breaker is those projects which scored highest under Health & Safety, with the second tie breaker being Condition. If multiple projects have equivalent Health & Safety and Condition scores they are arranged according to the amount of assistance from low to high. Once the funded projects are announced, “contingency projects” may be funded from project under-runs by continuing down the approved project list.
- Supplemental assistance is not provided to projects previously funded by the Commission.
- Applicants have 30 days from receipt of application by OPWC without exception to provide additional documentation to make the application more competitive under the Small Government criteria. Applications will be scored after the 30-day period has expired. The applicants for each District's two (2) contingency projects will have the same 30-day period to submit supplemental information but these applications will not be scored unless necessary to do so. **It is each applicant's responsibility for determining the need for supplemental material. The applicant will not be asked for or notified of missing information unless the Commission has changed the project type and it affects the documentation required. Important information may include, but is not limited to: age of infrastructure, traffic counts or utility users, median income information, user rates ordinances, and the Auditor's Certificate of Estimated Revenues or documentation from the Auditor of State that subdivision is in a state of fiscal emergency.**

If you desire to have your Round 35 project considered for Small Government Funding please download the Small Government Evaluation Criteria applicable to Round 35 by accessing the OPWC Website at

<https://www.pwc.ohio.gov/Portals/0/Data/SmallGovernment%20Round%2035%20Methodology.pdf?ver=2019-08-07-071749-143>

Please complete the Small Government Evaluation Criteria and attach all required supporting documentation and attach it to the District 5 Questionnaire for Round 35.

Date: 9-11-20

Signature: 

Title: County Engineer

Address: 12953 County Rd G Bryan OH 43506

Phone: 419 636 2454

FAX: 419 636 8687

Email: troth@wmscoengineer.com

ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COSTS

Williams County Commissioners
2021 BRIDGE REPLACEMENT PROGRAM
 18430 CR F, 19700 CR R, & 02240 CR 1 Bridges
 Williams County, Ohio

Williams County Engineer's Office
 12953 County Road G
 Bryan, Ohio 43506
 419-636-2454
 Fax 419-636-8687
Todd J. Roth, P.E., P.S.
 email: troth@wmscoengineer.com

Bid Item	Item	Name	Unit	Quantity	Estiamted Unit Price	Estimated Cost
CR F ALUMINUM STRUCTURAL PLATE						
ROADWAY						
1	201	CLEARING AND GRUBBING	LUMP	1	2,000.00	\$2,000.00
2	203	EMBANKMENT	CU YD	20	25.00	\$500.00
EROSION CONTROL						
3	207	PERIMETER FILTER FABRIC FENCE	FT	100	2.00	\$200.00
4	601	TYPE C, ROCK CHANNEL PROTECTION, 18" THICK	CU YD	20	85.00	\$1,700.00
5	659	TOPSOIL	CU YD	10	35.00	\$350.00
6	659	SEEDING AND MULCHING	SQ YD	80	10.00	\$800.00
DRAINAGE						
7	603	6" Conduit	LF	60	12.00	\$720.00
PAVEMENT						
7	202	SUBGRADE COMPACTION	SQ YD	74	3.00	\$222.00
8	255	FULL DEPTH PAVEMENT SAWING	FT	44	15.00	\$660.00
9	304	AGGREGATE BASE	CU YD	160	90.00	\$14,400.00
10	407	TACK COAT FOR INTERMEDIATE COURSE	GALLON	5	2.25	\$11.25
11	408	PRIME COAT	GALLON	29.6	2.25	\$66.60
12	411	STABILIZED AGGREGATE BASE	CU YD	2	50.00	\$100.00
13	448	ASPHALT CONCRETE BASE COURSE, TYPE 1, PG64-22	CU YD	6	300.00	\$1,800.00
14	448	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, PG64-22	CU YD	5	300.00	\$1,500.00
15	448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22	CU YD	4	300.00	\$1,200.00
STRUCTURES						
16	202	STRUCTURE REMOVED (One Abutment remains)	LUMP	1	5,000.00	\$5,000.00
17	503	UNCLASSIFIED EXCAVATION	LUMP	1	2,000.00	\$2,000.00
18	603	BEDDING STONE, 57's OR PEA STONE	CU YD	17	50.00	\$850.00
19	603	11'-5" x 7'-1" ALUMINUM STRUCTURAL PLATE	LUMP	1	49,786.50	\$49,786.50
20	603	<8", TYPE B 707.33 (CONTINGENCY)	LF	20	25.00	\$500.00
21	603	>8", TYPE B 707.33 (CONTINGENCY)	LF	20	35.00	\$700.00
22	613	LOW STRENGTH MORTAR	CU YD	50	90.00	\$4,500.00
MISCELLANEOUS						
23	614	MAINTAINING TRAFFIC	LUMP	1	3,500.00	\$3,500.00
24	623	CONSTRUCTION LAYOUT STAKES	LUMP	1	4,000.00	\$4,000.00
25	624	MOBILIZATION	LUMP	1	8,000.00	\$8,000.00
26	624	PREMIUM FOR CONTRACT PERFORMANCE BOND	LUMP	1	1,550.00	\$1,550.00
TOTAL CR F BRIDGE ESTIMATE:						\$77,268.00
CR R ALUMINUM STRUCTURAL PLATE						
ROADWAY						
1	201	CLEARING AND GRUBBING	LUMP	1	2,000.00	\$2,000.00
2	203	EMBANKMENT	CU YD	20	25.00	\$500.00
EROSION CONTROL						
3	207	PERIMETER FILTER FABRIC FENCE	FT	100	2.00	\$200.00
4	601	TYPE C, ROCK CHANNEL PROTECTION, 18" THICK	CU YD	20	85.00	\$1,700.00
5	659	TOPSOIL	CU YD	10	35.00	\$350.00
6	659	SEEDING AND MULCHING	SQ YD	80	10.00	\$800.00
PAVEMENT						

Bid Item	Item	Name	Unit	Quantity	Estiamted Unit Price	Estimated Cost
7	202	SUBGRADE COMPACTION	SQ YD	67	3.00	\$201.00
8	255	FULL DEPTH PAVEMENT SAWING	FT	36	15.00	\$540.00
9	304	AGGREGATE BASE	CU YD	140	90.00	\$12,600.00
10	407	TACK COAT FOR INTERMEDIATE COURSE	GALLON	5	2.25	\$11.25
11	408	PRIME COAT	GALLON	27	2.25	\$60.75
12	411	STABLIZED AGGREGATE BASE	CU YD	2	50.00	\$100.00
13	448	ASPHALT CONCRETE BASE COURSE, TYPE 1, PG64-22	CU YD	5	300.00	\$1,500.00
14	448	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, PG64-22	CU YD	4	300.00	\$1,200.00
15	448	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22	CU YD	3	300.00	\$900.00

STRUCTURES

16	202	STRUCTURE REMOVED (One Abutment remains)	LUMP	1	5,000.00	\$5,000.00
17	503	UNCLASSIFIED EXCAVATION	LUMP	1	2,000.00	\$2,000.00
18	603	BEDDING STONE, 57's OR PEA STONE	CU YD	20	50.00	\$1,000.00
19	603	12'-7" x 7'-5" ALUMINUM STRUCTURAL PLATE	LUMP	1	61,884.00	\$61,884.00
20	603	<8", TYPE B 707.33 (CONTINGENCY)	LF	20	25.00	\$500.00
21	603	>8", TYPE B 707.33 (CONTINGENCY)	LF	20	35.00	\$700.00
22	613	LOW STRENGTH MORTAR	CU YD	40	90.00	\$3,600.00

MISCELLANEOUS

23	614	MAINTAINING TRAFFIC	LUMP	1	3,500.00	\$3,500.00
24	623	CONSTRUCTION LAYOUT STAKES	LUMP	1	4,000.00	\$4,000.00
25	624	MOBILIZATION	LUMP	1	8,000.00	\$8,000.00
26	624	PREMIUM FOR CONTRACT PERFORMANCE BOND	LUMP	1	2,300.00	\$2,300.00

TOTAL CR R BRIDGE ESTIMATE:

\$115,147.00

CR 1 ALUMINUM BOX CULVERT

1	Special	Force Account Estimate from Worksheet	LUMP	1	73,014.00	\$73,014.00
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TOTAL CR 1 BRIDGE ESTIMATE:

\$73,014.00

TOTAL ALL BRIDGES ESTIMATE:

\$265,429.00

10% CONTINGENCIES:

\$26,542.90

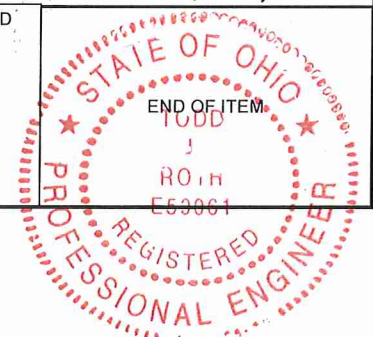
TOTAL ESTIMATE:

\$291,971.90

I HEREBY CERTIFY THAT THIS ESTIMATE WAS PREPARED USING STATE OF OHIO PREVAILING WAGE RATES AND THE USEFULL LIFE FOR THIS PROJECT IS 50 YEARS.


Todd J Roth, PE/PS

September 9, 2020
Date



Force Account Project Assessment Form (Estimate)

Ohio Revised Code 117.16 requires the Auditor of State to develop a force account project assessment form to be used by each public office to estimate or report the cost of a force account project. The form shall include costs for employee salaries and benefits, any other labor cost, materials, freight, fuel, hauling, overhead expense, workers' compensation premiums, and all other items of cost and expense, including a reasonable allowance for the use of all tools and equipment used on or in connection with such work and for the depreciation on the tools and equipment.

This form is to be completed as provided in Auditor of State Bulletin 2003-003.

Project Name/Number: Road 010 Bridge 1, 02240 CR 1 Bridge Replacement
 Project Description: Replacement of a 12' slab bridge with a 12'-7"x5'-2" Aluminum Box Culvert

Proposed Start Date: 8-13-21 Proposed End Date: 9-3-21

ESTIMATED LABOR

Description	Base Wage	Hours Worked	Total
<u>Foreman</u>	22.58 X	80.00 =	1806.40
<u>Operator</u>	17.07 X	80.00 =	1365.60
<u>Laborer</u>	17.07 X	80.00 =	1365.60
<u>Laborer</u>	15.25 X	24.00 =	366.00
<u>Laborer</u>	15.25 X	16.00 =	244.00
<u>Laborer</u>	15.25 X	8.00 =	122.00
	X	=	0.00
Total Base Wages			5269.60
% of base wages (fringe benefits, BWC, etc.)			1580.88
% of wages and fringe benefits for overhead			2603.18
Total Labor Estimate			9453.66

Assumed: 2 Days demo, 4 Days Build Pipe, 2 Days Backfill, 1 Day Embankment, 1 Day seeding

ESTIMATED MATERIALS

Description	Cost per Unit	Quantity	Unit Type	Total
<u>12'-7" x 5'-2" ABC</u>	40000.00 X	1.00	LF =	40000.00
<u>Type C Dump Rock</u>	48.00 X	20.00	CY =	960.00
<u>Asphalt</u>	6000.00 X	1.00	Lump =	6000.00
<u>#304 Limestone</u>	13.35 X	100.00	CY =	1335.00
<u>Bedding Stone</u>	7.20 X	12.00	CY =	86.40
<u>Grass Seed</u>	1.56 X	75.00	lbs =	117.00
<u>Straw Bale</u>	3.00 X	16.00	EA =	48.00
<u>#411 Crushed Berm</u>	13.35 X	20.00	CY =	267.00
Base Materials				48813.40
% of base materials for overhead				7322.01
Total Materials Estimate				56135.41

ESTIMATED EQUIPMENT

Each piece of equipment used in a project must be assigned an hourly rate. For equipment owned by the public entity, this rate must reflect the original purchase price of the equipment, maintenance cost, time in service, depreciation, freight, fuel, and hauling. The public office may use any generally accepted rate that reflects all of the aforementioned considerations, or it may use the statewide rates as published by the Ohio Department of Transportation and updated on a quarterly basis; however, the office must use the same rate source for all equipment used in a project. Any equipment rented by the public entity must be listed in the form and reflect the actual rental rate.

Description	Rate per	Hours	Miles	=	Total
	Hour/Mile				
<u>3/4 Ton Pick-up</u>	0.61	X	440.00	=	268.40
<u>1 Ton Pick-up</u>	1.00	X	60.00	=	60.00
<u>Excavator</u>	58.16	X	50.00	=	2908.00
<u>Semi</u>	2.11	X	80.00	=	168.80
<u>Loader</u>	41.18	X	32.00	=	1317.76
<u>Dump Truck, Tandem</u>	3.70	X	440.00	=	1628.00
<u>Concrete Breaker</u>	4.05	X	12.00	=	48.60
<u>Roller</u>	28.25	X	12.00	=	339.00
<u>4" Water Pump</u>	20.83	X	32.00	=	666.56
<u>Straw Chopper</u>	19.80	X	1	=	19.80
<u>Total Equipment Estimate</u>					<u>7424.92</u>

TOTAL ESTIMATED PROJECT COST \$ 73,013.99 (labor + materials + equipment)

Prepared by: John Waterston

Title: Bridge Engineer

Date: 8/26/2020

LEWIS D. HILKERT
President
419-262-6528

BRIAN A. DAVIS
Vice President
419-481-2999

TERRY N. RUMMEL
Commissioner
419-466-9285

ANNE M. RETCHER, Clerk
ROBIN R. KEMP, Assistant Clerk

WILLIAMS COUNTY
COMMISSIONERS OFFICE
ONE COURTHOUSE SQUARE
BRYAN, OHIO 43506-1791
PHONE 419-636-2059 FAX 419-636-0643

September 15, 2020

CERTIFICATION

I, Anne M. Retcher, Clerk of the Board of Commissioners of Williams County, Ohio, do hereby certify that the attached is a true and correct copy of Resolution 20-0257 adopted by the Board of County Commissioners of Williams County, Ohio on September 3, 2020 - VOL 157 PAGE 300-302.



Anne M. Retcher
Clerk, Williams County Commissioners



Williams County
Ohio

Commissioners Office

RESOLUTION 20-0257

COUNTY COMMISSIONERS' OFFICE
WILLIAMS COUNTY, BRYAN, OHIO
September 3, 2020

In the Matter of

AUTHORIZING LEW HILKERT TO PREPARE AND SUBMIT AN APPLICATION TO PARTICIPATE IN THE OHIO PUBLIC WORKS COMMISSION STATE CAPITAL IMPROVEMENT AND LOCAL TRANSPORTATION IMPROVEMENT PROGRAM AND TO EXECUTE CONTRACTS AS REQUIRED

The Board of Williams County Commissioners met in regular session on the above date with the following members present:

Lewis D. Hilkert, Yes Brian A. Davis, Yes Terry N. Rummel, Yes

Commissioner Davis moved adoption of the following resolution:

WHEREAS, the State Capital Improvement Program and the Local Transportation Improvement Program both provide financial assistance to political subdivisions for capital improvements to public infrastructure, and

WHEREAS, on September 2, 2020, Todd Roth, Williams County Engineer submitted a Letter asking for approval by resolution to submit applications to participate in the Ohio Public Works Commission State Capital Improvement Program (SCIP) and the Local Transportation Improvement Program (LTIP). Letter is attached and made a part thereof;

WHEREAS, Williams County is planning to make capital improvements to sewer infrastructure throughout Williams County. The LTIP application will include improvement projects to various roads and bridges within the Williams County Highway System, and

WHEREAS, the infrastructure improvement herein above described is considered to be a priority need for the community and is a qualified project under the OPWC programs,

NOW THEREFORE, BE IT RESOLVED by Williams County:

Section 1: The President of Board of Commissioners, Lewis D. Hilkert is hereby authorized to apply to the OPWC for funds as described above.

Section 2: The President of Board of Commissioners, Lewis D. Hilkert is authorized to enter into any agreements as may be necessary and appropriate for obtaining this financial assistance.

BE IT FURTHER RESOLVED, that it is further found and determined that all formal actions of this Board concerning and relating to the adoption of this Resolution were so adopted in an open meeting of this Board and that all deliberations of this Board and of any of its committees that resulted in such formal action were in meetings open to the public in compliance with all legal requirements, including Section 121.22 of the Ohio Revised Code.

Commissioner Rummel seconded the motion.

The vote upon adoption resulted as follows:

Mr. Lewis D. Hilkert, yes

Mr. Brian A. Davis, yes

Mr. Terry N. Rummel, yes

WILLIAMS COUNTY COMMISSIONERS

Lewis D. Hilkert
President of the Board of Commissioners

Brian A. Davis
Vice-Pres of the Board of Commissioners

Terry N. Rummel
Member of the Board of Commissioners



**Williams County Auditor
Vickie L. Grimm**

One Courthouse Square

Bryan, Ohio 43506

Phone 419-636-5639

Fax 419-636-8584

E-mail: auditor@wmsco.org

**CHIEF FINANCIAL OFFICER'S CERTIFICATION OF LOCAL FUNDS /
LOAN REPAYMENT LETTER**

September 9, 2020

I, Vickie L. Grimm, Auditor of Williams County, hereby certify that Williams County will have the amount of \$299,272 in the Auto & Gas Tax Funds and that this amount will be used to pay the local share for the 2021 Bridge Replacement Program when it is required.

Vickie L. Grimm
Williams County Auditor



Williams County Engineer

Todd J Roth P.E., P.S.

12953 County Road G Bryan, OH 43506

Phone: 419-636-2454

Fax: 419-636-8687

www.wmscoengineer.com

2021 Bridge Replacement Program

September 8, 2020

This review is to comply with Farmland Preservation Review Advisory of the Ohio Public Works Commission and the Governor's Executive Order 98-IV. This review was accomplished by the Office of the Williams County Engineer.

1. No additional right of way or Easement acquisition is required for the completion of this project.
2. Productive agricultural or grazing land will not be affected by this project.
3. No mitigation measures are warranted for this project.

Please contact me at this office with any questions regarding the above information.

Respectfully submitted,

Todd J. Roth, P.E., P.S.
Williams County Engineer

ODOT District: 02

WIL-C0297-0003_(8630453)

Date Built: 07/01/1916

Major Maint: 02 - County Highway Agency

Facility Carried: CR 297 (F)

Traffic On: 1 - Highway

Rehab Date:

Route Maint: 02 - County Highway Agency

Feature Inter: DITCH #66

Traffic Under: 5 - Waterway

Insp: 02 - County Highway Agency

FIPS Code: 64920 - PULASKI TWP (WIL county)

Location: WIL

18430 RD F

Insp Resp A:

Inspector: Waterson, John

Inspection Date: 09/09/2020 10:36:00 AM

Reviewer: Not Approved

National Bridge Inventory

Status

1 - SD

Sufficiency Rating

48.9

Identification		Inspections	
----------------	--	-------------	--

(1) State Code: 395 - Ohio

(90) Inspection Date

(8) Structure File Number (SFN): 8630453

(91) Designated Inspection Frequency: 12

(7) Facility Carried: CR 297 (F)

(92) Critical Feature Inspection

(93) CFI Date

(208) Route on the Bridge: 40 - County

A. Fracture Critical Detail: N 24

B. Underwater Inspection: N 0

(2) Highway Agency District: 02

C. Other Special Inspection: N 0

(3) County Code: 86 - Williams

D 01 Snooper Inspection: N

(209) Interstate Mile Marker

E 01 Drone Inspection

(201) Special Designation

(4) Place Code (FIPS): 64920 - PULASKI TWP (WIL county)

Condition

(5) Inventory Route

(58) Deck: 3 - Serious Condition

(A) Record Type On/Under Always "On": 1 - Route carried "on" the structure

(58.01) Wearing Surface: 7 - Good (1% distress)

(B) Route Signing Prefix (Highway System): 4 - COUNTY HIGHWAY

(58.02) Expansion Joint: N - Not Applicable

(C) Designated Level of Service (Highway Designation): 1 - MAINLINE

(59) Superstructure: 3 - Serious Condition

(D) Route Number: C0297

(E) Directional Suffix: 0 - NOT APPLICABLE

(59.01) Protective Coating System (PCS): N - Not Applicable

(6) Features Intersected: DITCH #66

(60) Substructure: 4 - Poor Condition

(9) Location: 18430 RD F

(61) Channel & Channel Protection: 5 - Bank eroded, major damage

(11) Milepoint: 00.030

(61.01) Scour: 4 - Poor or Advanced Scour (Spread: no undermining, Deep: Piles may be visible)

(12) Base Highway Network: Inventory Route is not on the Base Network

(62) Culvert: N - Not Applicable

(13A) LRS Inventory Route

(13B) Subroute Number

(16) Latitude: 41.49866 Degrees

(17) Longitude: -84.46914 Degrees

(18.01) Latitude - Ohio: 41.498664

(17.01) Longitude - Ohio: -84.469144

(98A) Border Bridge State Code

(67.01) General Appraisal: 3 - Serious Condition (primary structure affected)

(98B) Border Bridge State Percent Responsibility

(99) Border Bridge Struct No.

Ohio Bridge Inspection Summary Report

WIL-C0297-0003 (8630453)

2: District 02 64920 - PULASKI TWP (WIL county)
 21: Major Maint A/B 02 - County Highway Agency /
 225 Routine Main A/B 02 - County Highway Agency /
 221 Inspection A/B 02 - County Highway Agency /
 220: Inv. Location WIL

5A: Inventory Route 1 C0297
 7: Facility On CR 297 (F)
 6: Feature Ints DITCH #66
 9: Location 18430 RD F

Condition	
58: Deck	3 - Serious Condition
58.01 Wearing Surface	7 - Good (1% distress)
58.02 Joint	N- Not Applicable
59: Superstructure	3 - Serious Condition
59.01 Paint & PCS	N - Not Applicable
60: Substructure	4 - Poor Condition
61: Channel	5
61.01 Scour	4 - Poor or Advanced Scour (Spread: no undermining, Deep: Piles may be visible)
62: Culverts	N - Not Applicable
67.01 GA	3

Structure Type	
43: Bridge Type	1 - Concrete 01 - Slab N- Not Applicable
45: Spans Main / Approach	1 / 0
107: Deck Type	1 - Concrete Cast-in-Place
408: Composite Deck	U - Unknown
414A Joint Type 1	N - None
414B: Joint Type 2	N - None
108A: Wearing Surface	6 - Bituminous 3- Chip and Seal
422: WS Date	07/01/2010
423: WS Thick (in)	0.25
482: Protective Coating	N - None or Not Applicable
483: PCS Date	
453: Bearing Type 1	N - None
455: Bearing Type 2	N - None
528: Foundn: Abut Fwd	4 - Spread Footing
533: Foundn: Abut Rear	4 - Spread Footing
536: Foundn: Pier 1	N - None (Such as most Culverts)
539: Foundn: Pier 2	N - None (Such as most Culverts)

Appraisal				
36: Rail, Tr, Gd, Term Std	0	0	0	0
72: Approach Alignment	8 - Equal to present desirable criteria			
113: Scour Critical	4 - Action is required to protect exposed foundations			
71: Waterway Adequacy	8 - Bridge Above Approaches			

Geometric	
48: Max Span Length (ft)	12.0
49: Structure Length (ft)	14.0
52: Deck Width, Out-To-Out (ft)	32.4
424: Deck Area (sf)	453.8
32: Appr Roadway Width (ft)	22.0
51: Road Width, Curb-Curb (ft)	30.3
50A: Curb/SW Width: Left (ft)	0
50A: Curb/SW Width: Right (ft)	0
34: Skew (deg)	0
33: Bridge Median	0 - No median
54B: Min Vert Underclearance (ft)	0
336A: Min Vert Clrnce IR Cardinal (ft)	99
336B: Min V Clr IR Non-Cardinal (ft)	0
578: Culvert Length (ft)	0

Age and Service	
27: Year Built/ 106 Rehab	1916 /
42A: Service On	1 - Highway
42B: Service Under	5 - Waterway
28A: Lanes on	02
28B: Lanes Under	00
19: Bypass Length	3
29: ADT	425
109: % Trucks (%)	8

Load Posting	
41: Op/Post/Closed	A - Open
70: Posting	5 - Equal to or above legal loads
70.01: Date	
70.02: Sign Type	
734: Percent Legal (%)	150
704: Analysis Date	07/01/2009
63: Analysis Method	0 - Field evaluation and documented engineering judgment

Inspections	
	Months
90: Routine Insp.	12
92A: FCM Insp.	N 24
92B: Dive Insp.	N 0
92C: Special Insp.	N 0
92D: UBIT Insp.	N
92E: Drone Insp.	
Inspector	Waterston, John

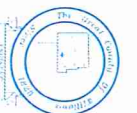




Site Code: 18430 CR F

Start Date: 8/18/2020

End Date: 8/25/2020



Latitude: 0.000000

Longitude: 0.000000

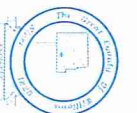
Summary: Using Average and Correction Factors

Average Volume	1005
ADT	1005
AADT	1005

WILLIAMS COUNTY ENGINEER'S OFFICE
TRAFFIC STUDY

Site Code: 18430 CR F
Start Date: 8/18/2020
End Date: 8/25/2020

HPSJB Method Summary
AADT 881



Latitude: 0.000000
Longitude: 0.000000

WILLIAMS COUNTY ENGINEER'S OFFICE
TRAFFIC STUDY

Site Code: 18430 CR F
Start Date: 8/18/2020
End Date: 8/25/2020

Latitude: 0.000000
Longitude: 0.000000



Use	Date	Lane	Volume	x	User	x	Daily	=	ADT	x	Season	=	AADT	Channel
False	8/18/2020	Channel 1, A to B	446		1.00		1.00		446		1.00		446	1
False	8/18/2020	Channel 2, B to A	384		1.00		1.00		384		1.00		384	2
True	8/18/2020	Day Total	0						0				0	
True	8/19/2020	Channel 1, A to B	498		1.00		1.00		498		1.00		498	1
True	8/19/2020	Channel 2, B to A	448		1.00		1.00		448		1.00		448	2
True	8/19/2020	Day Total	946						946				946	
True	8/20/2020	Channel 1, A to B	533		1.00		1.00		533		1.00		533	1
True	8/20/2020	Channel 2, B to A	505		1.00		1.00		505		1.00		505	2
True	8/20/2020	Day Total	1,038						1,038				1,038	
True	8/21/2020	Channel 1, A to B	533		1.00		1.00		533		1.00		533	1
True	8/21/2020	Channel 2, B to A	498		1.00		1.00		498		1.00		498	2
True	8/21/2020	Day Total	1,031						1,031				1,031	
False	8/22/2020	Channel 1, A to B	394		1.00		1.00		394		1.00		394	1
False	8/22/2020	Channel 2, B to A	337		1.00		1.00		337		1.00		337	2
True	8/22/2020	Day Total	0						0				0	
False	8/23/2020	Channel 1, A to B	283		1.00		1.00		283		1.00		283	1
False	8/23/2020	Channel 2, B to A	276		1.00		1.00		276		1.00		276	2
True	8/23/2020	Day Total	0						0				0	
False	8/24/2020	Channel 1, A to B	73		1.00		1.00		73		1.00		73	1
False	8/24/2020	Channel 2, B to A	116		1.00		1.00		116		1.00		116	2
True	8/24/2020	Day Total	0						0				0	

ODOT District 02

WIL-T0010-0001_(8631077)

Date Built 07/01/1947

Major Maint 02 - County Highway Agency

Facility Carried TR 10 (1)

Traffic On 1 - Highway

Refurb Date

Recent Maint 02 - County Highway Agency

Feature Info DITCH #113

Traffic Under 5 - Waterway

Insp. Agency 02 - County Highway Agency

FIPS Code 69638 - SAINT JOSEPH TWP (WIL county)

Location WIL

02240 RD 1

Insp. Resp. B

Inspector Watson, John

Inspection Date 02/03/2020 10:48:00 AM

Reviewer Not Approved

National Bridge Inventory

Status

1 - SD

Sufficiency Rating

48.9

Identification		Inspections	
(1) State Code	395 - Ohio	(50) Inspection Date	
(8) Structure File Number (SFN)	8631077	(91) Designated Inspection Frequency	12
(7) Facility Carried	TR 10 (1)	(92) Critical Feature Inspection	(93) CFI Date
(208) Route on the Bridge	42 - Township	A. Fracture Critical Detail	N 24
(2) Highway Agency District	02	B. Underwater Inspection	N 0
(3) County Code	86 - Williams	C. Other Special Inspection	N 0
(209) Interstate Mile Marker		D.01 Snooper Inspection	N
(201) Special Designation		E.01 Drone Inspection	
(4) Place Code (FIPS)	69638 - SAINT JOSEPH TWP (WIL county)	Condition	
(5) Inventory Route		(58) Deck	4 - Poor Condition
(A) Record Type On/Under Always "On"	1: Route carried "on" the structure	(58.01) Wearing Surface	6 - Satisfactory (1-10% distress)
(B) Route Signing Prefix (Highway System)	4 - COUNTY HIGHWAY	(58.02) Expansion Joint	N - Not Applicable
(C) Designated Level of Service (Highway Designation)	1 - MAINLINE	(59) Superstructure	4 - Poor Condition
(D) Route Number	T0010	(59.01) Protective Coating System (PCS)	N - Not Applicable
(E) Directional Suffix	0 - NOT APPLICABLE	(60) Substructure	6 - Satisfactory Condition
(6) Features Intersected	DITCH #113	(61) Channel & Channel Protection	7 - Bank protection needs minor repairs
(9) Location	02240 RD 1	(61.01) Scour	7 - Good
(11) Milepoint	00.010	(62) Culvert	N - Not Applicable
(12) Base Highway Network	Inventory Route is not on the Base Network	(67.01) General Appraisal	4 - Poor Condition (advanced deterioration)
(13A) LRS Inventory Route			
(13B) Subroute Number			
(16) Latitude	41.44227 Degrees		
(17) Longitude	-84.80403 Degrees		
(16.01) Latitude - Ohio	41.44227439		
(17.01) Longitude - Ohio	-84.80403115		
(98A) Border Bridge State Code			
(98B) Border Bridge State Percent Responsibility			
(99) Border Bridge Struct No			

Ohio Bridge Inspection Summary Report

WIL-T0010-0001 (8631077)

2: District 02 69638 - SAINT JOSEPH TWP (WIL county)
 21: Major Maint A/B 02 - County Highway Agency /
 225 Routine Main A/B 02 - County Highway Agency /
 221 Inspection A/B 02 - County Highway Agency /
 220: Inv. Location WIL

5A: Inventory Route 1 T0010
 7: Facility On TR 10 (1)
 6: Feature Ints DITCH #113
 9: Location 02240 RD 1

Condition	
58: Deck	4 - Poor Condition
58.01 Wearing Surface	6 - Satisfactory (1-10% distress)
58.02 Joint	N- Not Applicable
59: Superstructure	4 - Poor Condition
59.01 Paint & PCS	N - Not Applicable
60: Substructure	6 - Satisfactory Condition
61: Channel	7
61.01 Scour	7 - Good
62: Culverts	N - Not Applicable
67.01 GA	4

Structure Type	
43: Bridge Type	1 - Concrete
	01 - Slab
	N- Not Applicable
45: Spans Main / Approach	1 / 0
107: Deck Type	1 - Concrete Cast-in-Place
408: Composite Deck	U - Unknown
414A Joint Type 1	N - None
414B: Joint Type 2	N - None
108A: Wearing Surface	6 - Bituminous
	3- Chip and Seal
422: WS Date	07/01/2000
423: WS Thick (in)	0.25
482: Protective Coating	N - None or Not Applicable
483: PCS Date	
453: Bearing Type 1	N - None
455: Bearing Type 2	N - None
528: Foundn: Abut Fwd	5 - Timber Piles
533: Foundn: Abut Rear	5 - Timber Piles
536: Foundn: Pier 1	N - None (Such as most Culverts)
539: Foundn: Pier 2	N - None (Such as most Culverts)

Appraisal			
36: Rail, Tr, Gd, Term Std	0	N	0
72: Approach Alignment	4 - Meets minimum tolerable limits to be left in place as is		
113: Scour Critical	5 - Scour within limits of footing or piles		
71: Waterway Adequacy	8 - Bridge Above Approaches		

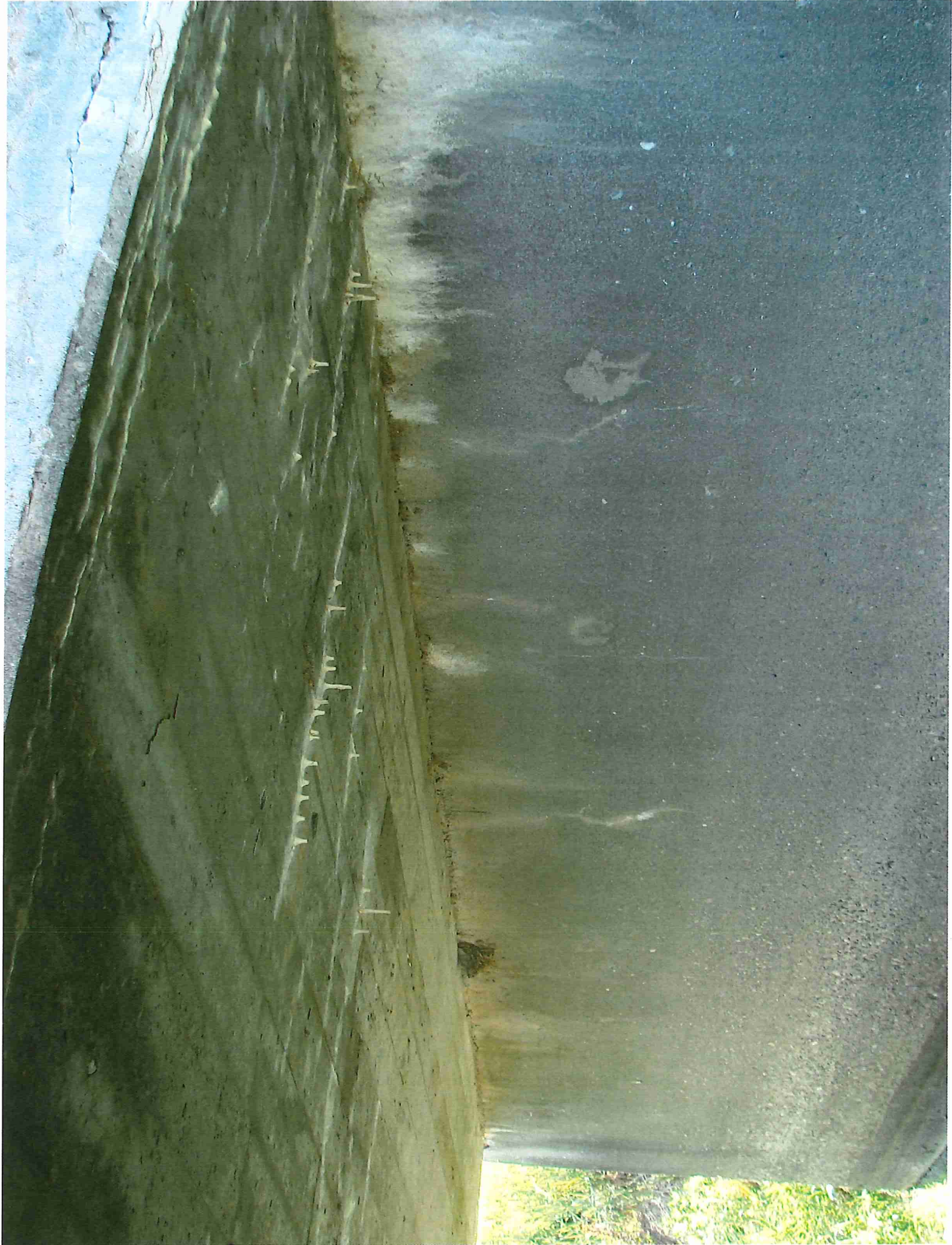
Geometric	
48: Max Span Length (ft)	12.0
49: Structure Length (ft)	15.0
52: Deck Width, Out-To-Out (ft)	18.0
424: Deck Area (sf)	270.0
32: Appr Roadway Width (ft)	18.0
51: Road Width, Curb-Curb (ft)	16.0
50A: Curb/SW Width: Left (ft)	0
50A: Curb/SW Width: Right (ft)	0
34: Skew (deg)	15
33: Bridge Median	0 - No median
54B: Min Vert Underclearance (ft)	0
336A: Min Vert Clrnce IR Cardinal (ft)	99
336B: Min V Clr IR Non-Cardinal (ft)	0
578: Culvert Length (ft)	0

Age and Service	
27: Year Built/ 106 Rehab	1947 /
42A: Service On	1 - Highway
42B: Service Under	5 - Waterway
28A: Lanes on	02
28B: Lanes Under	00
19: Bypass Length	3
29: ADT	209
109: % Trucks (%)	7

Load Posting	
41: Op/Post/Closed	A - Open
70: Posting	5 - Equal to or above legal loads
70.01: Date	
70.02: Sign Type	
734: Percent Legal (%)	100
704: Analysis Date	07/01/2010
63: Analysis Method	0 - Field evaluation and documented engineering judgment

Inspections		
		Months
90: Routine Insp.		12
92A: FCM Insp.	N	24
92B: Dive Insp.	N	0
92C: Special Insp.	N	0
92D: UBIT Insp.	N	
92E: Drone Insp.		
Inspector	Waterston, John	





ODOT District 02

Major Maint 02 - County Highway Agency

Routing Maint 02 - County Highway Agency

FIPS Code 50302 - MILL CREEK TWP (WIL county)

Facility Carried CR 12 (R)

Feature Intersect DITCH #226

Location WIL

Inspector Wadsworth, John

Inspection Date 09/09/2020 10:44:00 AM

Reviewer Not Approved

Traffic On 1 - Highway

Traffic Under 5 - Varying

19700 RD R

Date Built 07/01/1942
Rehab Date 10/01/2003

Insp. Plan A 02 - County Highway Agency
Insp. Plan B

WIL-C0012-0019_(8630569)

National Bridge Inventory

Status

1 - SD

Sufficiency Rating

41.5

Identification	Inspections
----------------	-------------

(1) State Code 395 - Ohio

(8) Structure File Number (SFN) 8630569

(7) Facility Carried CR 12 (R)

(208) Route on the Bridge 40 - County

(2) Highway Agency District 02

(3) County Code 86 - Williams

(209) Interstate Mile Marker

(201) Special Designation

(4) Place Code (FIPS) 50302 - MILL CREEK TWP (WIL county)

(5) Inventory Route

(A) Record Type On/Under Always "On" 1: Route carried "on" the structure

(B) Route Signing Prefix (Highway System) 4 - COUNTY HIGHWAY

(C) Designated Level of Service (Highway Designation) 1 - MAINLINE

(D) Route Number C0012

(E) Directional Suffix 0 - NOT APPLICABLE

(6) Features Intersected DITCH #226

(9) Location 19700 RD R

(11) Milepoint 00 190

(12) Base Highway Network Inventory Route is not on the Base Network

(13A) LRS Inventory Route

(13B) Subroute Number

(16) Latitude 41.68040 Degrees

(17) Longitude -84.44322 Degrees

(16 01) Latitude - Ohio 41.68040193

(17 01) Longitude - Ohio -84.44322372

(98A) Border Bridge State Code

(98B) Border Bridge State Percent Responsibility

(99) Border Bridge Struct No.

(90) Inspection Date

(91) Designated Inspection Frequency 12

(92) Critical Feature Inspection (93) CFI Date

A. Fracture Critical Detail N 24

B. Underwater Inspection N 0

C. Other Special Inspection N 0

D 01 Snooper Inspection N

E 01 Drone Inspection

Condition

(58) Deck 4 - Poor Condition

(58.01) Wearing Surface 7 - Good (1% distress)

(58.02) Expansion Joint N- Not Applicable

(59) Superstructure 4 - Poor Condition

(59.01) Protective Coating System (PCS) N - Not Applicable

(60) Substructure 3 - Serious Condition

(61) Channel & Channel Protection 5 - Bank eroded, major damage

(61.01) Scour 4 - Poor or Advanced Scour (Spread: no undermining, Deep: Flies may be visible)

(62) Culvert N - Not Applicable

(67.01) General Appraisal 3 - Serious Condition (primary structure affected)

Ohio Bridge Inspection Summary Report

WIL-C0012-0019 (8630569)

2: District 02 50302 - MILL CREEK TWP (WIL county)
 21: Major Maint A/B 02 - County Highway Agency /
 225 Routine Main A/B 02 - County Highway Agency /
 221 Inspection A/B 02 - County Highway Agency /
 220: Inv. Location WIL

5A: Inventory Route 1 C0012
 7: Facility On CR 12 (R)
 6: Feature Ints DITCH #228
 9: Location 19700 RD R

Condition	
58: Deck	4 - Poor Condition
58.01 Wearing Surface	7 - Good (1% distress)
58.02 Joint	N- Not Applicable
59: Superstructure	4 - Poor Condition
59.01 Paint & PCS	N - Not Applicable
60: Substructure	3 - Serious Condition
61: Channel	5
61.01 Scour	4 - Poor or Advanced Scour (Spread: no undermining, Deep: Piles may be visible)
62: Culverts	N - Not Applicable
67.01 GA	3

Structure Type	
43: Bridge Type	1 - Concrete 01 - Slab N- Not Applicable
45: Spans Main / Approach	1 / 0
107: Deck Type	1 - Concrete Cast-in-Place
408: Composite Deck	U - Unknown
414A Joint Type 1	N - None
414B: Joint Type 2	N - None
108A: Wearing Surface	6 - Bituminous 3- Chip and Seal
422: WS Date	07/01/2003
423: WS Thick (in)	0.25
482: Protective Coating	N - None or Not Applicable
483: PCS Date	
453: Bearing Type 1	N - None
455: Bearing Type 2	N - None
528: Foundn: Abut Fwd	4 - Spread Footing
533: Foundn: Abut Rear	4 - Spread Footing
536: Foundn: Pier 1	N - None (Such as most Culverts)
539: Foundn: Pier 2	N - None (Such as most Culverts)

Appraisal				
36: Rail, Tr, Gd, Term Std	0	0	0	0
72: Approach Alignment	8 - Equal to present desirable criteria			
113: Scour Critical	4 - Action is required to protect exposed foundations			
71: Waterway Adequacy	6 - Occasional Overtopping of Approaches			

Geometric	
48: Max Span Length (ft)	14.0
49: Structure Length (ft)	16.0
52: Deck Width, Out-To-Out (ft)	24.0
424: Deck Area (sf)	384.0
32: Appr Roadway Width (ft)	22.0
51: Road Width, Curb-Curb (ft)	23.0
50A: Curb/SW Width: Left (ft)	0
50A: Curb/SW Width: Right (ft)	0
34: Skew (deg)	0
33: Bridge Median	0 - No median
54B: Min Vert Underclearance (ft)	0
336A: Min Vert Clrnce IR Cardinal (ft)	99
336B: Min V Clr IR Non-Cardinal (ft)	0
578: Culvert Length (ft)	0

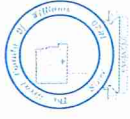
Age and Service	
27: Year Built/ 106 Rehab	1949 / 2005
42A: Service On	1 - Highway
42B: Service Under	5 - Waterway
28A: Lanes on	02
28B: Lanes Under	00
19: Bypass Length	4
29: ADT	104
109: % Trucks (%)	8

Load Posting	
41: Op/Post/Closed	A - Open
70: Posting	5 - Equal to or above legal loads
70.01: Date	
70.02: Sign Type	
734: Percent Legal (%)	150
704: Analysis Date	03/20/2017
63: Analysis Method	6 - Load Factor (LF) rating reported by rating factor (RF) method using MS18 loading.

Inspections		Months
90: Routine Insp.		12
92A: FCM Insp.	N	24
92B: Dive Insp.	N	0
92C: Special Insp.	N	0
92D: UBIT Insp.	N	
92E: Drone Insp.		
Inspector	Waterston, John	



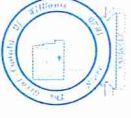




Latitude: 0.000000
Longitude: 0.000000

Site Code: CRR
Start Date: 8/10/2020
End Date: 8/19/2020

Summary: Using Average and Correction Factors
Average Volume 104
ADT 104
AADT 104

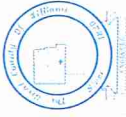


Site Code: CRR
Start Date: 8/10/2020
End Date: 8/19/2020

Latitude: 0.000000
Longitude: 0.000000

HPSJB Method Summary
AADT 69

WILLIAMS COUNTY ENGINEER'S OFFICE
TRAFFIC STUDY



Latitude: 0.000000
Longitude: 0.000000

Site Code: CRR
Start Date: 8/10/2020
End Date: 8/19/2020

Use	Date	Lane	Volume	User	Daily	ADT	Season	AAADT	Channel
True	8/15/2020	Channel 1, A to B	39	1.00	1.00	39	1.00	39	1
True	8/15/2020	Channel 2, B to A	45	1.00	1.00	45	1.00	45	2
True	8/15/2020	Day Total	84			84		84	
True	8/16/2020	Channel 1, A to B	43	1.00	1.00	43	1.00	43	1
True	8/16/2020	Channel 2, B to A	54	1.00	1.00	54	1.00	54	2
True	8/16/2020	Day Total	97			97		97	
True	8/17/2020	Channel 1, A to B	69	1.00	1.00	69	1.00	69	1
True	8/17/2020	Channel 2, B to A	68	1.00	1.00	68	1.00	68	2
True	8/17/2020	Day Total	137			137		137	
True	8/18/2020	Channel 1, A to B	71	1.00	1.00	71	1.00	71	1
True	8/18/2020	Channel 2, B to A	65	1.00	1.00	65	1.00	65	2
True	8/18/2020	Day Total	136			136		136	
True	8/19/2020	Channel 1, A to B	29	1.00	1.00	29	1.00	29	1
True	8/19/2020	Channel 2, B to A	35	1.00	1.00	35	1.00	35	2
True	8/19/2020	Day Total	64			64		64	

GENERAL NOTES:

UTILITIES:
 LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS.
 ELECTRIC: TOLEDO EDISON
 31 Williams Ave
 Wapakoneta, OH 45397
 419-545-4170
 TELEPHONE: on CR R FRONTIER COMMUNICATIONS
 P.O. BOX 290 85002
 PHOENIX, AZ
 1-877-462-0099
 on CR F CSUTRYLINK
 654 LSS 109
 WAUSEON, OH 43087
 1-833-344-7499

CONTINGENCY QUANTITIES:

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR ITEMS DESIGNATED BY NOTES TO BE USED AS DIRECTED BY THE ENGINEER UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED FOR SUCH ITEMS SHALL BE INCORPORATED INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

ELEVATION DATUM:

ALL BENCH MARK ELEVATIONS ARE BASED NGVD 1988.

CLEARING AND GRUBBING:

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

STREAM CHANNEL EXCAVATION:

TAKE ALL PRECAUTIONS NECESSARY TO PREVENT ANY INCIDENTAL DISCHARGES ASSOCIATED WITH THE EXCAVATION AND HALLING OF MATERIAL FROM THE STREAM CHANNEL. THIS PERTAINS TO ANY EXCAVATION OPERATIONS SUCH AS, FOUNDATION PIER OR ABUTMENT EXCAVATION, CHANNEL CLEANOUT, EXCAVATION FOR ROCK CHANNEL PROTECTION AND REMOVAL OF ANY TEMPORARY FILL ASSOCIATED WITH CONSTRUCTION OPERATIONS.

FARM DRAINAGE:

ALL FARM DRAINS, WHICH ARE ENCOUNTERED DURING CONSTRUCTION, SHALL BE PROVIDED WITH UNSTRUCTURED OUTLETS EXISTING COLLECTORS WHICH ARE LOCATED BELOW THE ROADWAY DITCH ELEVATIONS, AND WHICH CROSS THE ROADWAY, SHALL BE REPLACED WITHIN THE (RIGHT OF WAY) CONSTRUCTION) LIMITS BY ITEM 603 CONDUIT, TYPE B, ONE COMMERCIAL SIZE LARGER THAN THE EXISTING CONDUIT.

EXISTING COLLECTORS AND ISOLATED FARM DRAINS, WHICH ARE ENCOUNTERED ABOVE THE ELEVATION OF ROADWAY DITCHES, SHALL BE DITCHED TO THE ROADWAY DITCH BY ITEM 203 CONDUIT. THE OPTIMUM OUTLET ELEVATION SHALL BE ONE FOOT ABOVE THE FLOODELINE DITCHED TO THE ROADWAY DITCH. THE CONDUIT SHALL BE INTERFERED BY 600, TYPE E CONDUIT, AND CARRIED IN A LONGITUDINAL DIRECTION TO AN ADEQUATE OUTLET OR ROADWAY CROSSINGS.

THE LOCATION, TYPE, SIZE, AND GRADE OF BENCH MARKS SHALL BE DETERMINED BY THE ENGINEER AND FURNISHED TO THE CONTRACTOR. THE COST OF REMOVING EXISTING FARM DRAINS SHALL BE INCLUDED IN THE INSULATION BID PRICE MEASUREMENTS.

EROSION CONTROL PADS AND ANIMAL GUARDS SHALL BE PROVIDED AT THE OUTLET END OF ALL FARM DRAINS AS PER STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE NECESSARY MATERIALS FOR THE EROSION CONTROL PADS AND ANIMAL GUARDS AND ANY NECESSARY BENCH OR BRANCHES SHALL BE INCLUDED FOR PAVEMENT IN THE PERTINENT CONDUIT ITEMS.

18430 RD F - GENERAL SUMMARY

ITEM	TOTAL QUANTITY	UNIT	DESCRIPTION
201	1	LUMP	ROADWAY CLEARING AND GRUBBING
203	20	CU YD	EMBANKMENT
207	100	FT	EROSION CONTROL PERMETER FILTER FABRIC FENCE
601	20	CU YD	TYPE C, ROCK CHANNEL PROTECTION, 18" THICK
609	10	CU YD	TOPSOIL
624	80	CU YD	SEEDING AND MULCHING
202	74	SD YD	PAVEMENT SUBGRADE COMPACTION
225	44	FT	FULL DEPTH PAVEMENT SAWING
487	30	GALLON	TACK COAT FOR INTERDATE COURSE
488	30	GALLON	PRIME COAT
489	30	GALLON	AGGREGATE BASE
490	6	CU YD	ASPHALT CONCRETE BASE COURSE, TYPE 1, PG64-22
448	5	CU YD	ASPHALT CONCRETE INTERDATE COURSE, TYPE 1, PG64-22
448	4	CU YD	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22
202	1	LUMP	STRUCTURE REMOVED
304	140	CU YD	AGGREGATE BASE
305	17	CU YD	11.5"-7.5" ALUMINUM STRUCTURAL PLATE
603	17	LUMP	EROSION CONTROL CONDUIT, CONTINGENCY
603	20	LF	6" OR LESS, TYPE B CONDUIT, CONTINGENCY
603	20	LF	GREATER THAN 6" TYPE B CONDUIT, CONTINGENCY
613	50	CU YD	LOW STRENGTH MORTAR
614	1	LUMP	MISCELLANEOUS
623	1	LUMP	MAINTAINANCE
624	1	LUMP	MOBILIZATION
624	1	LUMP	PREMIUM FOR CONTRACT PERFORMANCE BOND

NOTE: IF IS THE INTENT OF WILLIAMS COUNTY THAT ALL WORK REQUIRED IN THE PLANS AND/OR SPECIFICATIONS BE COMPLETED FOR THE BASE BID, IF ANY WORK ITEM EXISTS THAT IS NOT SHOWN ON THE BID FORM, THE CONTRACTOR SHALL INCLUDE 5% WORK IN OTHER BID ITEMS.

19700 RD R - GENERAL SUMMARY

ITEM	TOTAL QUANTITY	UNIT	DESCRIPTION
201	1	LUMP	ROADWAY CLEARING AND GRUBBING
203	75	CU YD	EMBANKMENT
207	100	FT	EROSION CONTROL PERMETER FILTER FABRIC FENCE
601	20	CU YD	TYPE C, ROCK CHANNEL PROTECTION, 18" THICK
609	10	CU YD	TOPSOIL
624	80	CU YD	SEEDING AND MULCHING
202	27	SD YD	PAVEMENT SUBGRADE COMPACTION
225	50	FT	FULL DEPTH PAVEMENT SAWING
487	30	GALLON	TACK COAT FOR INTERDATE COURSE
488	30	GALLON	PRIME COAT
489	30	GALLON	AGGREGATE BASE
490	6	CU YD	ASPHALT CONCRETE BASE COURSE, TYPE 1, PG64-22
448	5	CU YD	ASPHALT CONCRETE INTERDATE COURSE, TYPE 1, PG64-22
448	4	CU YD	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG64-22
202	1	LUMP	STRUCTURE REMOVED
304	140	CU YD	AGGREGATE BASE
305	17	CU YD	11.5"-7.5" ALUMINUM STRUCTURAL PLATE
603	17	LUMP	EROSION CONTROL CONDUIT, CONTINGENCY
603	20	LF	6" OR LESS, TYPE B CONDUIT, CONTINGENCY
603	20	LF	GREATER THAN 6" TYPE B CONDUIT, CONTINGENCY
613	49	CU YD	LOW STRENGTH MORTAR
614	1	LUMP	MISCELLANEOUS
623	1	LUMP	MAINTAINANCE
624	1	LUMP	MOBILIZATION
624	1	LUMP	PREMIUM FOR CONTRACT PERFORMANCE BOND

NOTE: IF IS THE INTENT OF WILLIAMS COUNTY THAT ALL WORK REQUIRED IN THE PLANS AND/OR SPECIFICATIONS BE COMPLETED FOR THE BASE BID, IF ANY WORK ITEM EXISTS THAT IS NOT SHOWN ON THE BID FORM, THE CONTRACTOR SHALL INCLUDE 5% WORK IN OTHER BID ITEMS.

Todd J. Roth, P.E., P.S.
 Williams County Engineer
 12935 County Road 6
 Wapakoneta, Ohio 45306
 Brgn, Ohio 45306
 for 419-538-2424
 419-538-8587



WILLIAMS COUNTY COMMISSIONERS
 WILLIAMS COUNTY, OHIO
 PROPOSED BRIDGE REPLACEMENT (18430 RD F & 19700 CR R) FOR
 GENERAL NOTES AND SUMMARY

Work Order
 18960 CR 1150
 8/11/20

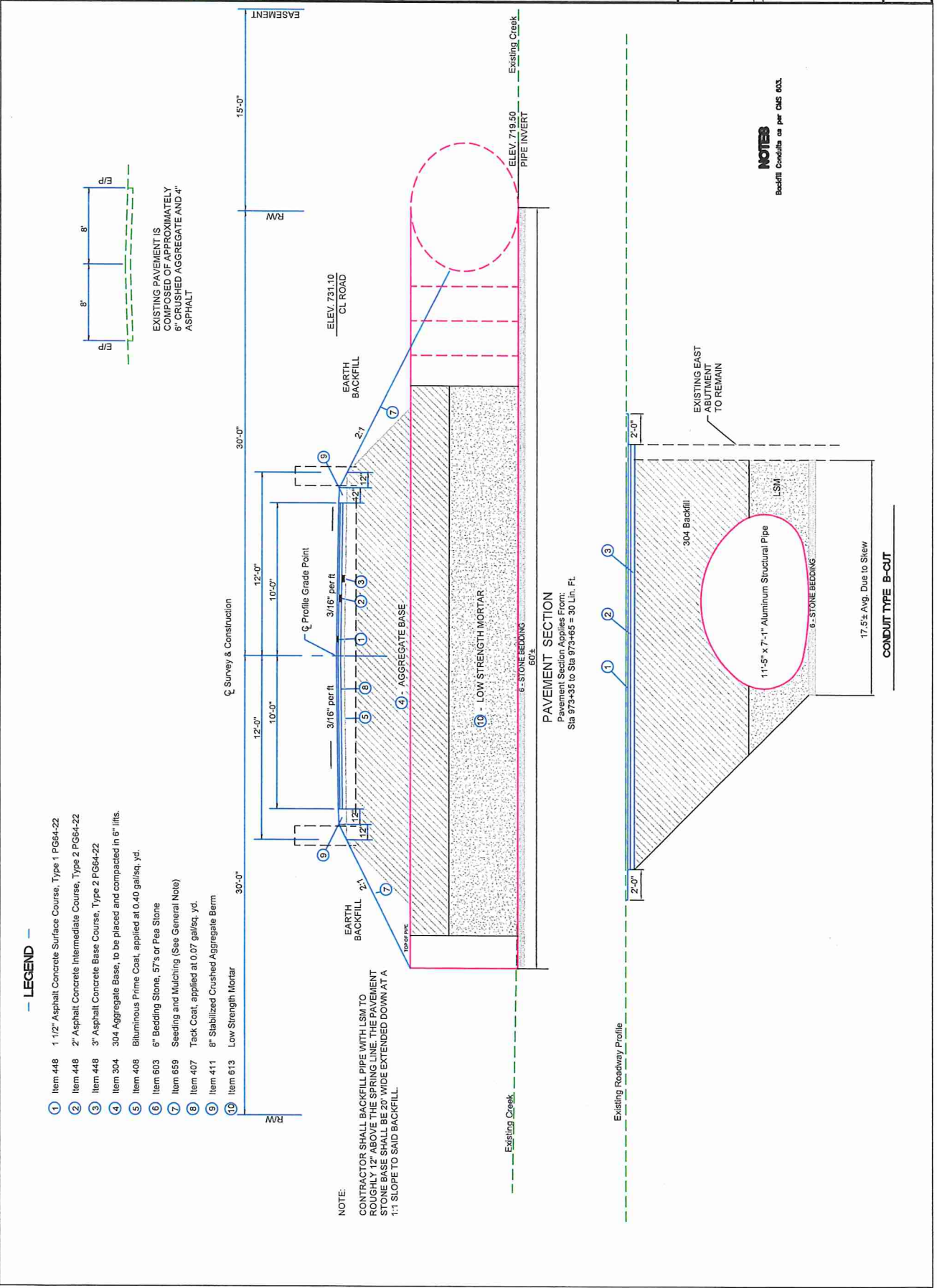
WILLIAMS COUNTY COMMISSIONERS
WILLIAMS COUNTY, OHIO
PROPOSED BRIDGE REPLACEMENT (18430 RD F & 19700 CR) for

Work Order
18430 CR F
ISSUE DATES:
8/11/20

Todd J. Roth, P.E., P.S.
Williams County Engineer
19933 County Road G
Bryar, Ohio 43066
419.836.2154
fax 419.836.6287



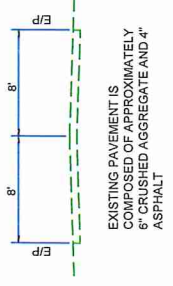
NOTES
Backfill Conditions as per CMS 603.



LEGEND

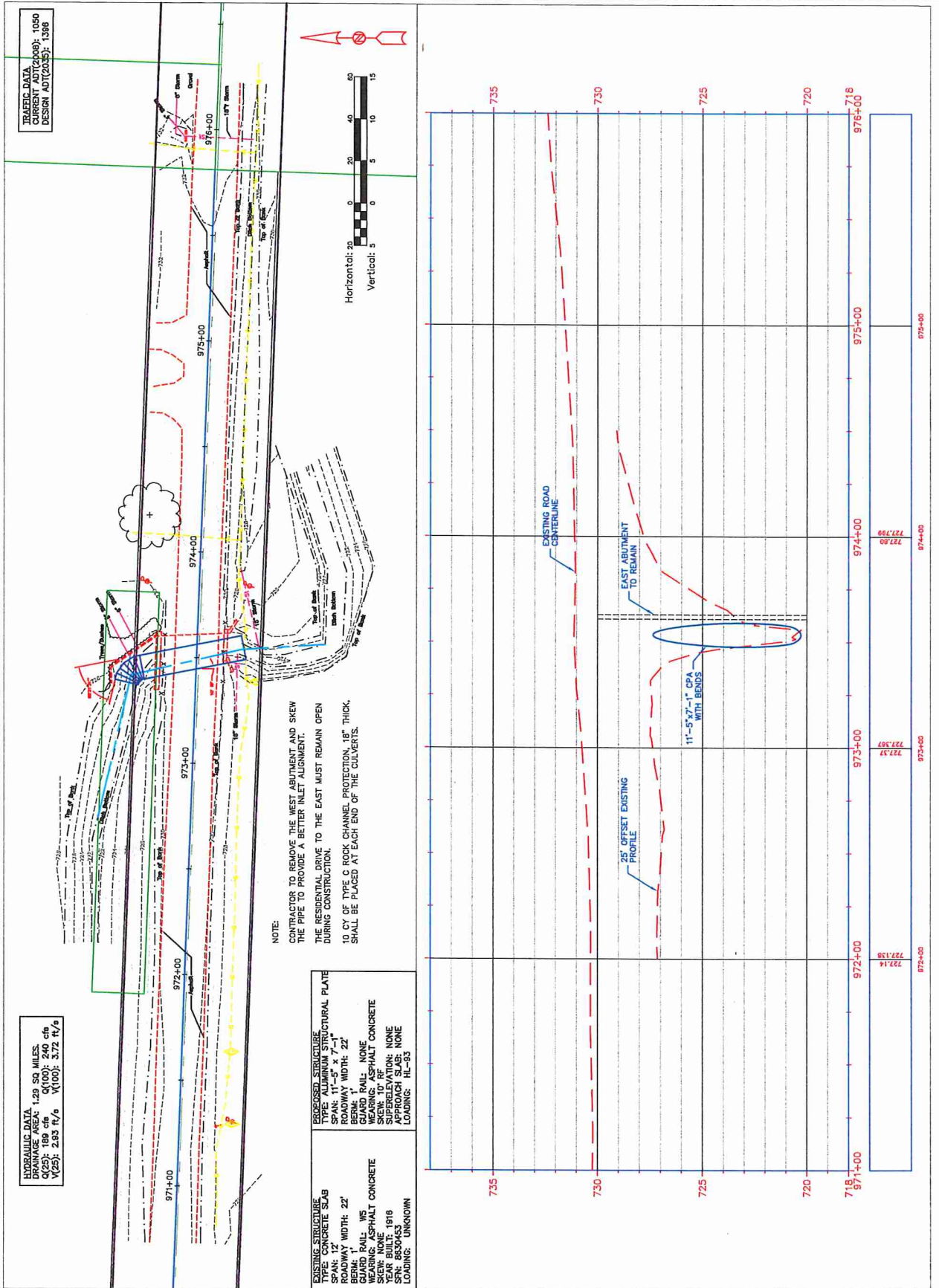
- 1 Item 448 1 1/2" Asphalt Concrete Surface Course, Type 1 PG64-22
- 2 Item 448 2" Asphalt Concrete Intermediate Course, Type 2 PG64-22
- 3 Item 448 3" Asphalt Concrete Base Course, Type 2 PG64-22
- 4 Item 304 304 Aggregate Base, to be placed and compacted in 6" lifts.
- 5 Item 408 Bituminous Prime Coat, applied at 0.40 gal/sq. yd.
- 6 Item 603 6" Bedding Stone, 57's or Pea Stone
- 7 Item 659 Seeding and Mulching (See General Note)
- 8 Item 407 Tack Coat, applied at 0.07 gal/sq. yd.
- 9 Item 411 8" Stabilized Crushed Aggregate Berm
- 10 Item 613 Low Strength Mortar

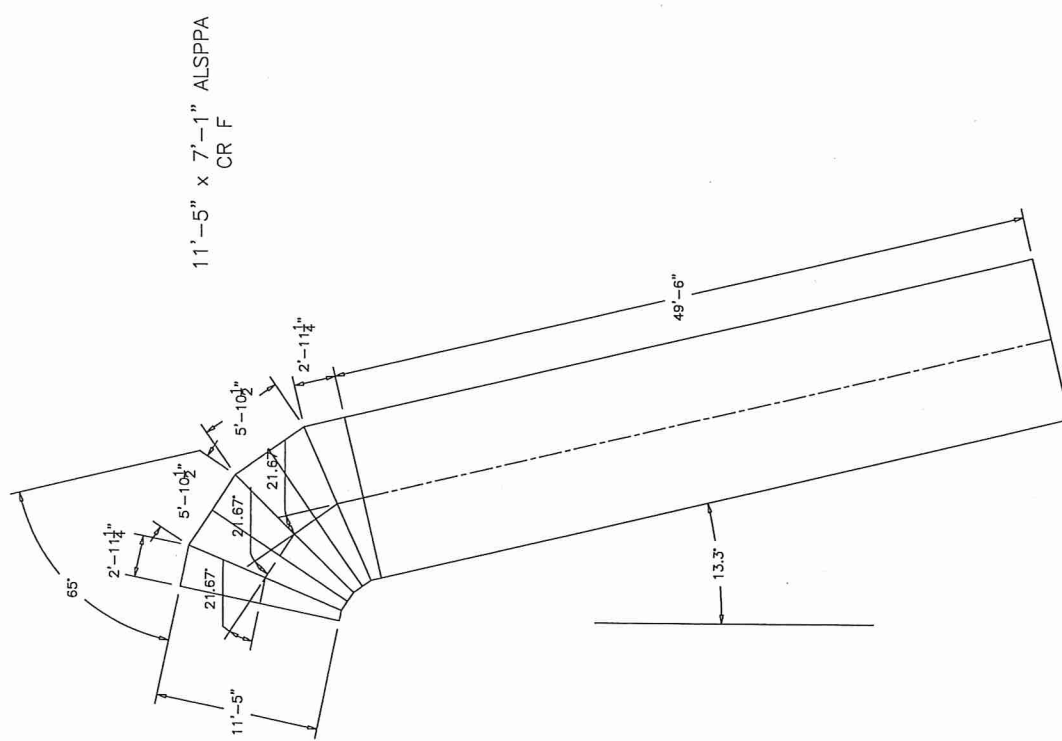
NOTE:
CONTRACTOR SHALL BACKFILL PIPE WITH LSM TO ROUGHLY 12" ABOVE THE SPRING LINE. THE PAVEMENT STONE BASE SHALL BE 20" WIDE EXTENDED DOWN AT A 1:1 SLOPE TO SAID BACKFILL.



PAVEMENT SECTION
Pavement Section Applies From:
Sta 973+35 to Sta 973+65 = 30 Lin. Ft.

CONDUIT TYPE B-CUT
17.5% Avg. Due to Stew





This design and information herein is the property of the engineer and is intended for the use of the project shown on the drawing. It is not to be reproduced or used for any other project without the written consent of the engineer. The engineer is not responsible for any errors or omissions in this drawing. The engineer is not responsible for any construction or installation of the structure shown on this drawing. The engineer is not responsible for any damage to the structure or any other property caused by the use of this drawing. The engineer is not responsible for any other matters not mentioned herein.

MARK	DATE	REVISION DESCRIPTION	BY

CNTECH
ENGINEERED SOLUTIONS LLC
www.cntech.com
9025 Cortina Pointe Dr., Suite 400, West Chester, OH 45389
800-338-1122 513-645-7000 513-645-7993 FAX

CNTECH
STRUCTURAL PLATE
PROPOSAL
DRAWING

Bridge Replacement - 2021 OPWC App

PROJECT NO.	8132020
DESIGNED	ISC
CHECKED	APPROVED
SHEET NO.	2 OF 2

SPECIFICATIONS FOR MANUFACTURE AND INSTALLATION OF CONTECH ALSP PIPE ARCH

II - ALUMINUM STRUCTURAL PLATE ROUND.

I - GENERAL

1.0 STANDARDS AND DEFINITIONS

- 1.1 STANDARDS - All standards refer to latest edition unless otherwise noted.
- 1.1.1 ASTM B-746 "Corrugated Aluminum Alloy Structural Plate for Field-Bolted Pipe, Pipe-Arches, and Arches" (AASHTO Designation M-219).
- 1.1.2 AASHTO Standard Specification for Highway Bridges - Section 12.
- 1.1.3 AASHTO Standard Specification for Highway Bridges - Section 26.

1.2 DEFINITIONS

- 1.2.1 Owner - In these specifications the word "Owner" shall mean OWNER.
- 1.2.2 Engineer - In these specifications the word "Engineer" shall mean the Engineer of Record or Owner's designated engineering representative.
- 1.2.3 Manufacturer - In these specifications the word "Manufacturer" shall mean the manufacturer of the CONTECH Administration Product Inc. 9025 Centre Pointe Dr., Suite 400, West Chester, OH 45396; John Kuschner (613) 309-0208.
- 1.2.4 Contractor - In these specifications the word "Contractor" shall mean the firm or corporation undertaking the execution of any installation work under the terms of these specifications.
- 1.2.5 Approved - In these specifications the word "approved" shall refer to the approval of the Engineer or his designated representative.
- 1.2.6 As Directed - In these specifications the words "as directed" shall refer to the directions to the Contractor from the Owner or his designated representative.

2.0 GENERAL CONDITIONS

- 2.1 The Contractor shall furnish all labor, material and equipment and perform all work and services except those set out and furnished by the Owner, including but not limited to: excavation, grading, backfilling, compaction, grading as shown on the plans and as described therein. This work shall consist of all mobilization clearing and grading, grubbing, stripping, removal of existing materials unless otherwise stated, preparation of the land to be filled, filling of the land, spreading and grading of the cut and fill areas to conform with the lines, slopes, and specifications. This work is to be accomplished under the observation of the Owner or his designated representative.
- 2.2 Prior to bidding the work, the Contractor shall examine, investigate and inspect the construction site as to the nature and location of the work, and the general and local conditions at the construction site, including without limitation, the character of surface or subsurface conditions and obstacles and shall make such investigation as he may deem necessary for the planning and proper execution of the work.
- 2.3 If conditions other than those indicated are discovered by the Contractor, the Contractor shall immediately advise the Engineer in writing. The Contractor shall not be disturbed so that the owner can investigate the condition.
- 2.4 The construction shall be performed under the direction of the Engineer.
- 2.5 All aspects of the structure design and site layout including foundations, backfill, and treatments and necessary scour consideration shall be performed by the Engineer.
- 2.6 Any installation guidance provided herein shall be enforced by the Engineer or superseded by the Engineer's plans and specifications.

- 1.1 Manufacturer shall fabricate the ALSP Pipe Arch as shown on the plans. Fabrication shall conform to the requirements of ASTM B-746 and shall consist of plates, ribs, and appurtenant items.

Plate thickness, rib spacing, and treatment and type of invert and foundation shall be as shown on the plans. The structure shall be fabricated and installed in accordance with the requirements of the AASHTO Standard Specification for Highway Bridges - Section 12, and required galvanizing shall be performed within the United States of America.

- 1.2 The contractor shall verify all field dimensions and conditions prior to ordering materials.

2.0 DIMENSIONS

- 2.1 The proposed structure shall be ALSP PIPE ARCH with the following dimensions:
Span: 12'-7"
Rise: 7'-5"
Gage: 0.125

- 2.2 All plan dimensions on the contract drawings are measured in a true horizontal plan unless otherwise noted.

3.0 ASSEMBLY AND INSTALLATION

- 3.1 Bolts and nuts shall conform to the requirements of ASTM A-307 or ASTM A-449. The structure shall be assembled in accordance with the plate layout drawings provided by the manufacturer and per the manufacturer's recommendations. Bolts shall be tightened using an applied torque of between 100 and 150 ft.-lb.
- 3.2 The structure shall be installed in accordance with the plans and specifications, the manufacturer's recommendations, and AASHTO Standard Specification for Highway Bridges - Section 26.
- 3.3 Trench excavation shall be made in embankment material that is structurally adequate. The trench width shall be shown on the plans. Poor quality in situ embankment material must be removed and replaced with suitable backfill as directed by the Engineer.
- 3.4 Bedding preparation is critical to both structure performance and service life. The bed should be constructed to uniform line and grade to avoid distortions that may create undesirable stresses in the structure and/or rapid deterioration of the roadway. The bed should be free of rock formations, protruding stones, frozen lumps, roots, and other foreign matter that may cause unequal settlement.
- 3.5 Bedding shall provide a minimum of 4,000 psf bearing capacity. Foundation details for bearing capacity less than 4,000 psf shall be approved by the Engineer.
- 3.6 The structure shall be assembled in accordance with the Manufacturer's instructions. All plates shall be unstacked and handled with reasonable care. Plates shall not be rolled or dragged over gravel rock and shall be prevented from striking rock or other hard objects during placement in trench or on bedding.

When assembled on a cast in place spread footing, the structure shall be assembled in the footing starting at the upstream end. When assembled on a full invert or on flexible footing pads, the invert or footing pad shall be placed starting at the downstream end. The structure shall be assembled on the invert or footing pad starting at the inlet and shall be installed in the structure in the direction of travel with the plate lips angled downstream as viewed from the inside of the structure.

The structure shall be backfilled using clean well graded granular material that meets the requirements of AASHTO M-145 for soil classifications A-1, A-2 or A-3. Backfill must be placed symmetrically on each side of the structure in 6 to 8 inch loose lifts. Each lift shall be compacted to a minimum of 90 percent density per AASHTO T-180.

- 3.7 Construction loads that exceed highway load limits are not allowed to cross the structure without approval from the Engineer.

Normal highway traffic is not allowed to cross the structure until the structure has been backfilled and paved. If the road is unpaved, cover allowance to accommodate rutting shall be as directed by the Engineer.

GROUP CLASSIFICATION	A-1	A-3	A-2.4	A-2.5
Sieve Analysis Percent Passing				
No. 10 (2,000 mm)	50 max.	—	—	—
No. 40 (0.425 mm)	—	51 max.	—	—
No. 100 (0.150 mm)	—	—	50 max.	50 max.
No. 200 (0.075 mm)	25 max.	10 max.	20 max.	20 max.
Liquid Limits	—	—	40 max.	41 max.
Plasticity Index	—	—	10 max.	10 max.
Usual Materials	Stone Fragment, Gravel and Sand	Non Plastic Sand	Silty or Clayey Gravel and Sand	Silty or Clayey Gravel and Sand

NOTE: Aterberg Limits are modified to provide material that are primarily granular

Highway and information shown on this drawing is provided as a guide only. The contractor shall verify all field dimensions and conditions prior to ordering materials. The contractor shall be responsible for obtaining all necessary permits and approvals. The contractor shall be responsible for obtaining all necessary permits and approvals. The contractor shall be responsible for obtaining all necessary permits and approvals.

CONTECH
ENGINEERED SOLUTIONS
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45396
800-338-1122 513-645-7000 513-645-7993 FAX

PROPOSAL
DRAWING

ALSP PIPE ARCH 12'-7" X 7'-5"
COUNTY ROAD R
WILLIAMS COUNTY, OH

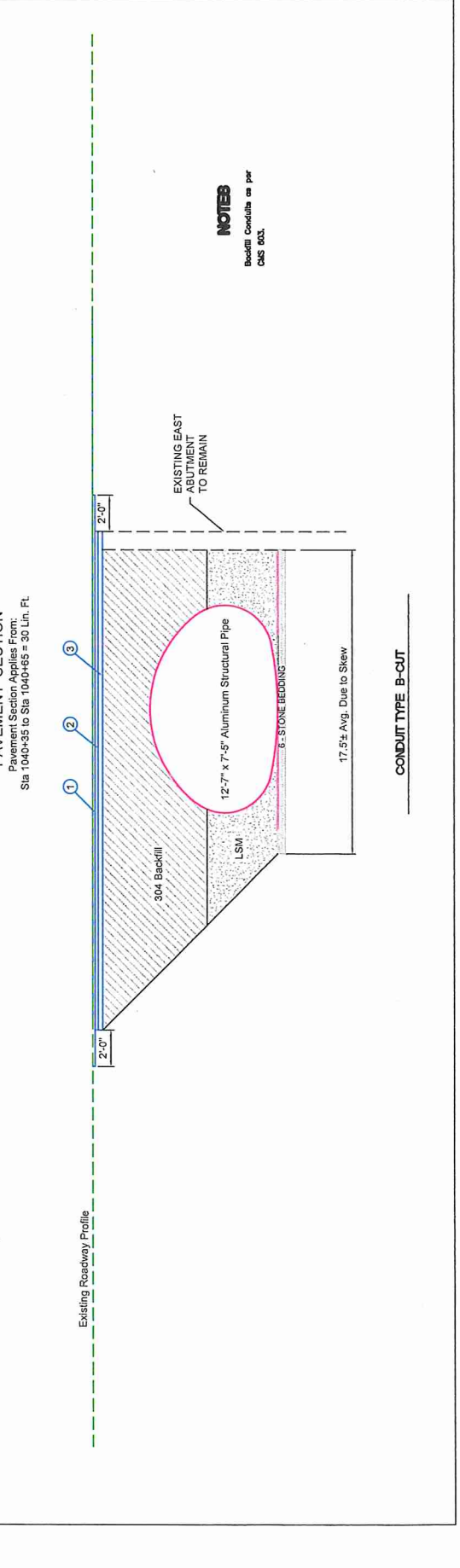
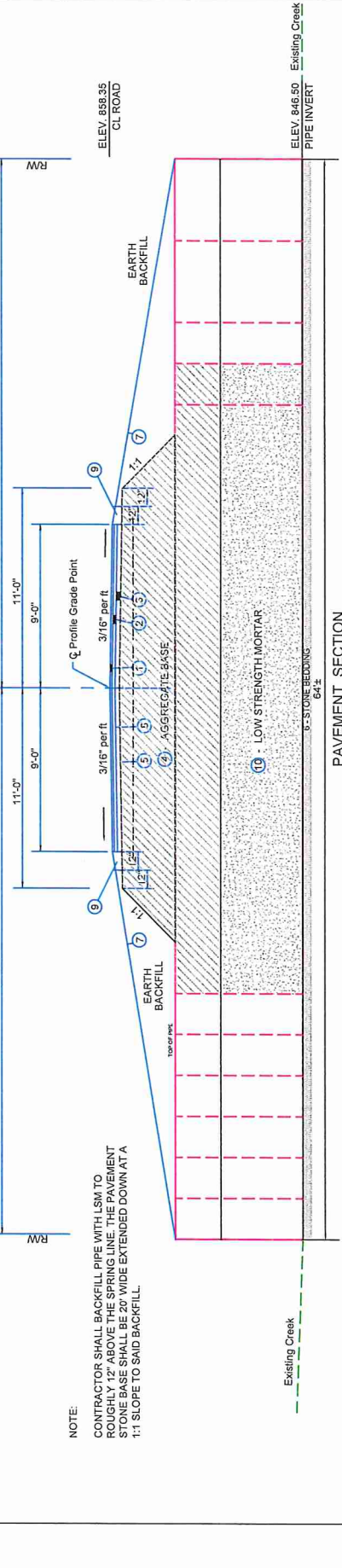
MINARY
(NOI) HUK CONSTRUCTION

Project No:	856015	Date:	8/14/2020
Req. No.:	010	Drawn:	JK
Designed:		Checked:	
Approved:		Sheet No.:	3 OF 4

Todd J. Roth, P.E., P.S.
 Williams County Engineer
 19943 County Road G
 Bryan, Ohio 43158
 619.624.4544
 fax 619.626.6687

- LEGEND**
- ① Item 448 1 1/2" Asphalt Concrete Surface Course, Type 1 PG64-22
 - ② Item 448 2" Asphalt Concrete Intermediate Course, Type 2 PG64-22
 - ③ Item 448 3" Asphalt Concrete Base Course, Type 2 PG64-22
 - ④ Item 304 304 Aggregate Base, to be placed and compacted in 6" lifts.
 - ⑤ Item 408 Bituminous Prime Coat, applied at 0.40 gal/sq. yd.
 - ⑥ Item 603 6" Bedding Stone, 57's or Pea Stone
 - ⑦ Seeding and Mulching (See General Note)
 - ⑧ Item 407 Tack Coat, applied at 0.07 gal/sq. yd.
 - ⑨ Item 411 8" Stabilized Crushed Aggregate Berm
 - ⑩ Item 613 Low Strength Mortar

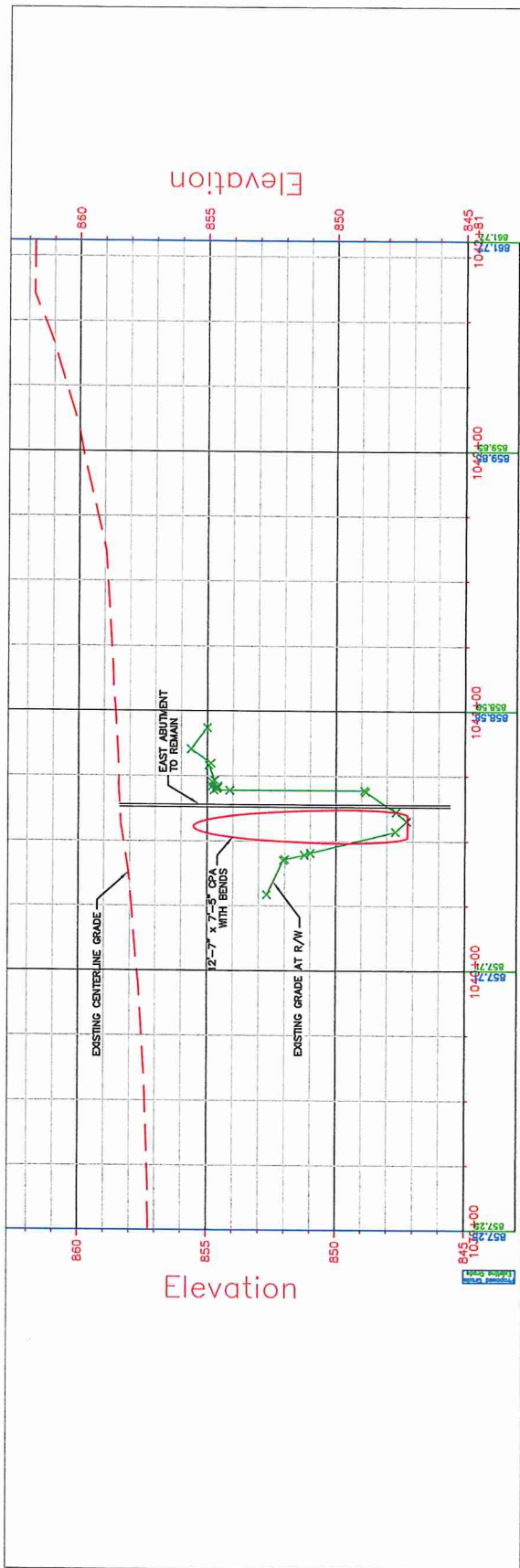
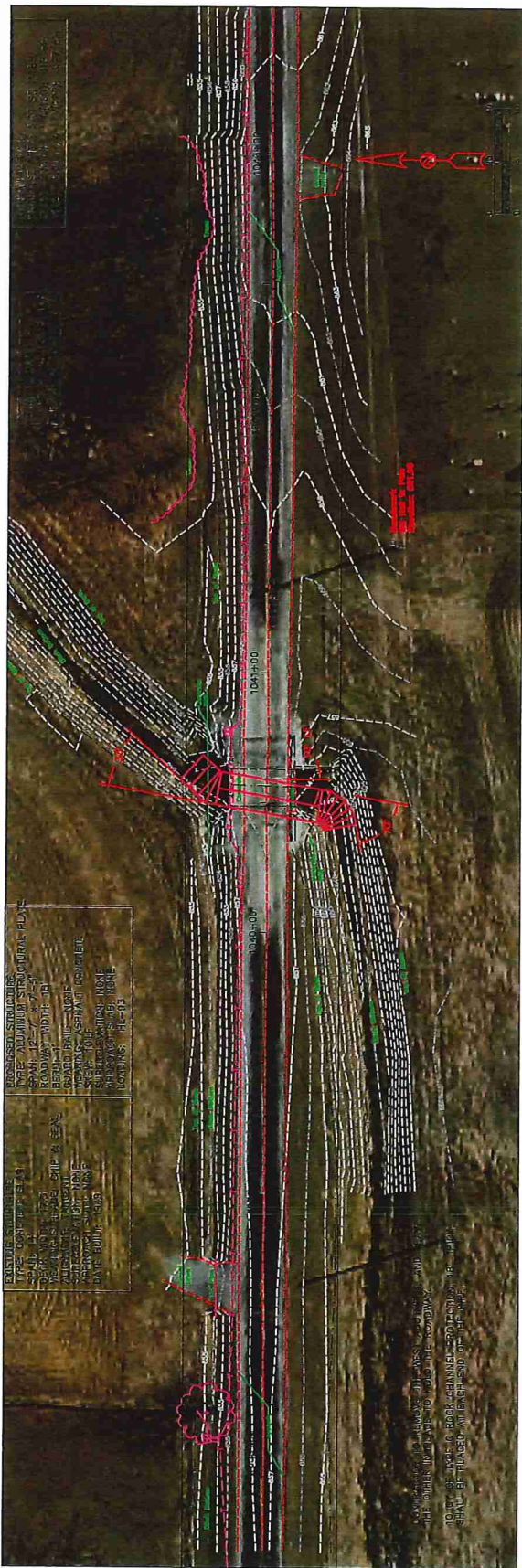
NOTE:
 CONTRACTOR SHALL BACKFILL PIPE WITH LSM TO
 ROUGHLY 12" ABOVE THE SPRING LINE. THE PAVEMENT
 STONE BASE SHALL BE 20" WIDE EXTENDED DOWN AT A
 1:1 SLOPE TO SAID BACKFILL



DATE
19700 CR R

PROPOSED BRIDGE REPLACEMENT (18430 RD F & 19700 RD R) FOR
WILLIAMS COUNTY COMMISSIONERS
BRYAN, OHIO
PLAN AND PROFILE

Todd J. Roth, P.E.
Williams County Engineer
12933 County Road G
Bryan, Ohio 43506
419-638-2634
Fax 419-638-6887

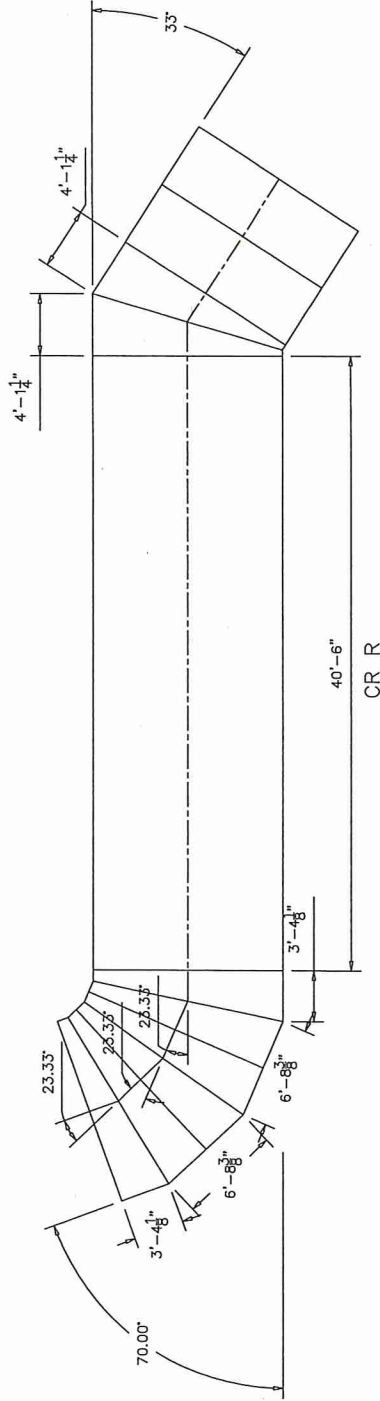


EXISTING STRUCTURES
TYPE CONCRETE
SPAN 12'
ROADWAY WIDTH 14'
BEDDING WIDTH 14'
CONCRETE PAVEMENT
WEARING SURFACE ASPHALT
SIDEWALKS CONCRETE
DRAINAGE DITCHES
DRAINAGE PIPES

PROPOSED STRUCTURES
TYPE ALUMINUM STRUCTURAL PLATE
SPAN 12'
ROADWAY WIDTH 14'
BEDDING WIDTH 14'
CONCRETE PAVEMENT
WEARING SURFACE ASPHALT
SIDEWALKS CONCRETE
DRAINAGE DITCHES
DRAINAGE PIPES

FOR THE PURPOSE OF THIS PROJECT, THE EXISTING GRADE AT THE R/W SHALL BE THE GRADE AT THE END OF THE BRIDGE.

12'-7" x 7'-5" ALSPPA
CR R



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MARK	DATE	REVISION DESCRIPTION	BY

CNTECH
ENGINEERED SOLUTIONS LLC
www.CntechES.com
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45389
800-338-1122 513-645-7000 513-645-7993 FAX

CNTECH
STRUCTURAL PLATE
PROPOSAL
DRAWING

Bridge Replacement - 2021 OPWC App

PROJECT No.	DESIGNED	CHECKED	SHEET NO.
			1
DATE			OF
8/13/2020			2

SPECIFICATIONS FOR MANUFACTURE AND INSTALLATION OF CONTECH ALSP PIPE ARCH

I - GENERAL

1.0 STANDARDS AND DEFINITIONS

- 1.1 STANDARDS - All standards refer to latest edition unless otherwise noted.
- 1.1.1 ASTM B-746 "Compiated Aluminum Alloy Structural Plate for Field-Bolted Pipe, Pipe-Arches, and Arches" (AASHTO Designation M-219).
- 1.1.2 AASHTO Standard Specification for Highway Bridges - Section 12.
- 1.1.3 AASHTO Standard Specification for Highway Bridges - Section 26.

1.2 DEFINITIONS

- 1.2.1 Owner - In these specifications the word "Owner" shall mean the firm or corporation undertaking the execution of any installation work under the terms of these specifications.
- 1.2.2 Engineer - In these specifications the word "Engineer" shall refer to the approval of the Engineer or his designated representative.
- 1.2.3 Manufacturer - In these specifications the word "Manufacturer" shall refer to the manufacturer of the material or the designated representative.
- 1.2.4 Contractor - In these specifications the word "Contractor" shall mean the firm or corporation undertaking the execution of any installation work under the terms of these specifications.
- 1.2.5 Approved - In these specifications the word "approved" shall refer to the approval of the Engineer or his designated representative.
- 1.2.6 As Directed - In these specifications the words "as directed" shall refer to the directions of the Contractor from the Owner or his designated representative.

2.0 GENERAL CONDITIONS

- 2.1 The Contractor shall furnish all labor, material and equipment and perform all work and services except those set out and limited by the Owner, including, but not limited to, mobilization, site preparation, clearing, excavation, filling, compaction, grading as shown on the plans and as described herein. This work shall consist of all mobilization clearing and grading, grubbing, stripping, removal of existing materials unless otherwise stated, preparation of the land to be filled, filling of the land, spreading and grading of the cut and fill areas to conform with the plans, grades, slopes and specifications. This work is to be accomplished under the observation of the Owner or his designated representative.
- 2.2 Prior to bidding the work, the Contractor shall examine, investigate and inspect the construction site as to the nature and location of the work, and the general and local conditions at the construction site, including without limitation, the character of surface or subsurface conditions and obstacles to be encountered on and around the construction site and shall make arrangements to be made for the same. The Contractor shall be responsible for the proper execution of the work.
- 2.3 If conditions other than those indicated are discovered by the Contractor, the Contractor shall immediately advise the Engineer in writing of the conditions that the owner can investigate the condition.
- 2.4 The construction shall be performed under the direction of the Engineer.
- 2.5 All aspects of the structure design and site layout including foundations, backfill, and treatments and necessary scour consideration shall be performed by the Engineer.
- 2.6 Any installation guidance provided herein shall be endorsed by the Engineer or superseded by the Engineer's plans and specifications.

II - ALUMINUM STRUCTURAL PLATE ROUND.

1.0 GENERAL

- 1.1 Manufacturer shall fabricate the ALSP Pipe Arch as shown on the plans. Fabrication shall conform to the requirements of ASTM B-746 and shall consist of plates, ribs, and support items.
- 1.2 Plate thickness, rib spacing, and treatment and type of invert and foundation shall be as indicated on the plans. All manufacturing processes including welding shall require guaranteeing shall be performed within the United States of America.
- 1.3 The contractor shall verify all field dimensions and conditions prior to ordering materials.

2.0 DIMENSIONS

- 2.1 The proposed structure shall be ALSP PIPE ARCH with the following dimensions:
Span: 12'-7"
Rise: 7'-5"
Gage: 0.125

3.0 ASSEMBLY AND INSTALLATION

- 3.1 Bolts and nuts shall conform to the requirements of ASTM A-307 or ASTM A-449. The structure shall be assembled in accordance with the plate layout drawings provided by the manufacturer and per the manufacturer's recommendations.
- 3.2 Bolts shall be tightened using an applied torque of between 100 and 150 ft.-lbs. The structure shall be installed in accordance with the plans and specifications, the manufacturer's recommendations, and AASHTO Standard Specification for Highway Bridges - Section 26.
- 3.3 Trench excavation shall be made in embankment material that is structurally adequate. The trench width shall be shown on the plans. Poor quality in situ embankment material must be removed and replaced with suitable backfill as directed by the Engineer.
- 3.4 Bedding preparation is critical to both structure performance and service life. The bed should be constructed to uniform line and grade to avoid distortions that may create undesirable stresses in the structure and/or rapid deterioration of the roadway. The bed should be free of rock formations, protruding stones, frozen lumps, roots, and other foreign matter that may cause unequal settlement.
- 3.5 Bedding shall provide a minimum of 4,000 per bearing capacity. Foundation details for bearing capacity less than 4,000 per shall be approved by the Engineer.
- 3.6 The structure shall be assembled in accordance with the Manufacturer's instructions. All plates shall be unloading and handled with reasonable care. Plates shall not be rolled or dragged over gravel rock and shall be prevented from striking rock or other hard objects during placement in trench or on bedding.
- 3.7 When assembled on a cast in place spread footing, the structure shall be assembled in the footing starting at the upstream end. When assembled on a full invert or on flexible footing pads, the invert or footing pad shall be placed starting at the downstream end. The structure shall be assembled on the invert or footing pad starting at the inlet end. Circumferential seams shall be installed with the plate lips shingled downstream as viewed from the inside of the structure.

NOTE: Atterberg Limits are modified to provide material that are primarily granular

GROUP CLASSIFICATION	A-1	A-3	A-2-4	A-2-5
Sieve Analysis Percent Passing				
No. 10 (2,000 mm)	50 max.	51 max.	---	---
No. 40 (0.425 mm)	---	---	---	---
No. 100 (0.150 mm)	25 max.	10 max.	50 max.	50 max.
No. 200 (0.075 mm)	---	---	20 max.	20 max.
Atterberg Limits	---	---	40 max.	41 max.
Plasticity Index	---	---	10 max.	10 max.
Usual Materials	Stress Fragment Gravel and Sand	Non Plastic Sand	Silty or Clayey Gravel and Sand	

MINIARY
(NO) LUM CONSTRUCTION

Project No:	866015	Date:	8/7/4/2020
Drawn:	JK	Checked:	JK
Approved:		Sheet No.:	3 OF 4

ALSP PIPE ARCH 12'-7" X 7'-5"
COUNTY ROAD R
WILLIAMS COUNTY, OH



CONTECH
ENGINEERED SOLUTIONS

9025 Centre Pointe Dr. Suite 400, West Chester, OH 45391
800-338-1122 513-645-7000 513-645-7993 FAX

PROPOSAL
DRAWING

MARK	DATE	REVISION DESCRIPTION



CONTECH ALBC DYOB

PRELIMINARY
NOT FOR CONSTRUCTION



DYOB
DRAWING

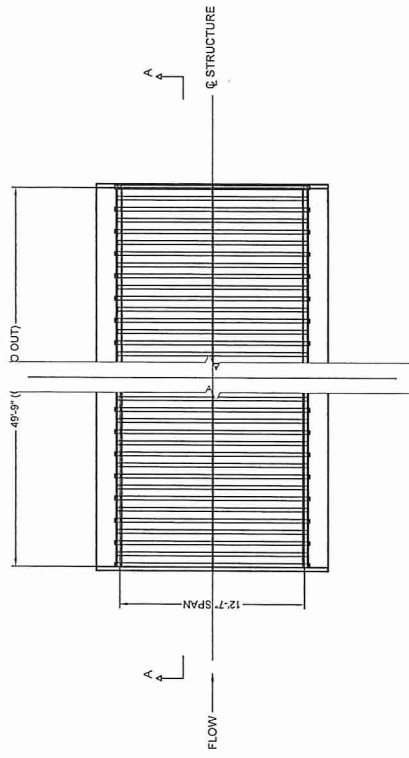
CONTECH
ENGINEERED SOLUTIONS LLC
www.conteches.com
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45389
800-338-1122 513-645-7000 513-645-7593 FAX

ALBC 18, 12'-7" Span x 5'-2" Rise
Shell Designation = R3
CR 1 Bridge Replacement
Edgerton, Ohio

PROJECT No.	DATE
DY0217891	8/26/2020
DESIGNED BY	DRAWN BY
DYO	DYO
CHECKED BY	APPROVED BY
DYO	DYO
COVER SHEET	

MARK	DATE	REVISION DESCRIPTION	BY

The design and fabrication shown herein is based on the design and specifications for the project shown on the drawings. It is the responsibility of the user to verify the design and specifications for the project shown on the drawings. The design and fabrication shown herein is based on the design and specifications for the project shown on the drawings. It is the responsibility of the user to verify the design and specifications for the project shown on the drawings. The design and fabrication shown herein is based on the design and specifications for the project shown on the drawings. It is the responsibility of the user to verify the design and specifications for the project shown on the drawings.



PRELIMINARY
NOT FOR CONSTRUCTION

PROJECT NO.	DATE
DY0217891	8/26/2020
DESIGNED BY	DRAWN BY
YD	YD
CHECKED BY	APPROVED BY
YD	YD
SHEET NO.	1 OF 6

ALBC 18, 12'-7" Span x 5'-2" Rise
Shell Designation = R3
CR 1 Bridge Replacement
Edgerton, Ohio



DYOB
DRAWING



www.conteches.com
8225 Centre Pointe Dr., Suite 400, West Chester, OH 45399
800-338-1122 513-645-7000 513-645-7993 FAX

MARK	DATE	REVISION DESCRIPTION	BY

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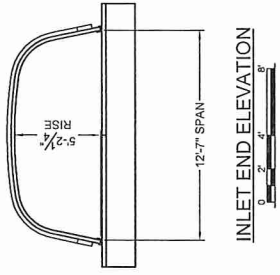
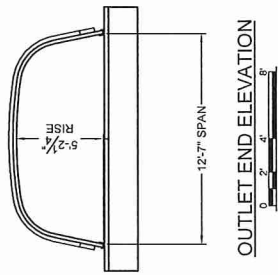
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CONTECH
STRUCTURAL PLATE
DYOB
DRAWING

ALBC 18, 12'-7" Span x 5'-2" Rise
Shell Designation = R3
CR 1 Bridge Replacement
Edgerton, Ohio

PROJECT NO.:	DYOB17891	DATE:	8/26/2020
DESIGNED:	DYO	DRAWN:	DYO
CHECKED:	DYO	APPROVED:	DYO
SHEET NO.:	2	OF	6

PRELIMINARY
NOT FOR CONSTRUCTION



The design and construction shown on this drawing is intended to be used in conjunction with the design and construction of the bridge structure. The design and construction of the bridge structure is the responsibility of the engineer of record. The engineer of record is not responsible for the design and construction of the bridge structure if the design and construction of the bridge structure is not in accordance with the design and construction shown on this drawing. The engineer of record is not responsible for the design and construction of the bridge structure if the design and construction of the bridge structure is not in accordance with the design and construction shown on this drawing.

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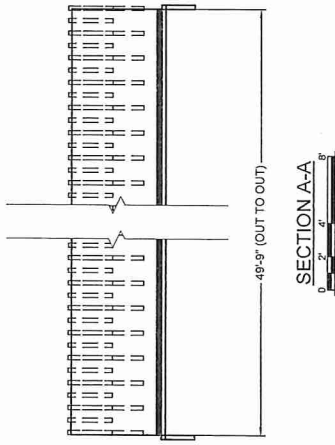
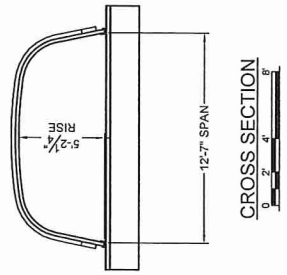
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DY0217891	8/26/2020
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DYO	DYO
SHEET No:	3 of 6

PRELIMINARY
NOT FOR CONSTRUCTION



1.0 STANDARDS AND DEFINITIONS

- 1.1 STANDARDS - All standards refer to the current ASTM/AASHTO edition unless otherwise noted.
- 1.1.1 ASTM B-964 - Standard Specification for Corrugated Aluminum Box Culverts* (AASHTO Designation M-219).
- 1.1.2 AASHTO Standard Specification for Highway Bridges - Section 12 Division I - Design, AASHTO LRFD Bridge Design Specifications
- 1.1.3 AASHTO Standard Specification for Highway Bridges - Section 26 Division II - Construction, AASHTO LRFD Bridge Construction Specifications - Section 26
- 1.2 DEFINITIONS
- 1.2.1 Owner - In these specifications the word "Owner" shall mean
- 1.2.2 Engineer - In these specifications the word "Engineer" shall mean the Engineer of Record or Owner's designated engineering representative.
- 1.2.3 Manufacturer - In these specifications the word "Manufacturer" shall mean CONTECH ENGINEERED SOLUTIONS 800-338-1122
- 1.2.4 Contractor - In these specifications the word "Contractor" shall mean the firm or corporation undertaking the execution of any installation work under the terms of these specifications.
- 1.2.5 Approved - In these specifications the word "approved" shall refer to the approval of the Engineer or the designated representative.
- 1.2.6 As directed - In these specifications the words "as directed" shall refer to the directions to the Contractor from the Owner or his designated representative.

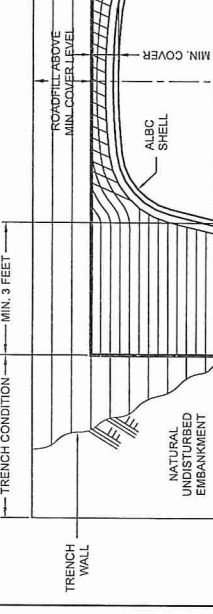
2.0 GENERAL CONDITIONS

- 2.1 Any installation guidance provided herein shall be enforced by the engineer. Discrepancies herein are governed by the Engineer's plans and specifications.
- 2.2 The Contractor shall furnish all labor, material and equipment and perform all work and accept those set out and furnished by the Owner, necessary to complete in a satisfactory manner the site clearing and grading, grubbing, stripping, removal of existing material, and as described herein. This work shall consist of all mobilization, site preparation, grading, and filling to be located, filling of the embankment, and as described herein. This work shall consist of all mobilization, site preparation, grading, and filling to be located, filling of the embankment, and as described herein. This work shall consist of all mobilization, site preparation, grading, and filling to be located, filling of the embankment, and as described herein.
- 2.3 Prior to bidding the work, the Contractor shall examine, investigate and respect the construction site as to the nature and location of the work, and limitation, the character of surface or subsurface conditions and obstacles to be encountered on and around the construction site and shall make such investigations as may be deemed necessary for the planning and proper execution of the work.

3.0 ASSEMBLY AND INSTALLATION

- 3.1 Bells and nuts shall conform to the requirements of ASTM A-307 and A-307M. The backfill shall be placed in the backfill area in accordance with the manufacturer's recommendations.
- 3.2 The box culvert shall be installed in accordance with the plans and specifications of the manufacturer and per the manufacturer's recommendations.
- 3.3 Trench excavation shall be made in embankment material that is structurally adequate. The trench width shall be shown on the plans and shall be maintained throughout the construction. The trench shall be backfilled with suitable material as directed by the Engineer.
- 3.4 Aluminum Box Culvert designs require a minimum allowable bearing capacity of 10,000 psf. The design shall be in accordance with a specific design for an aluminum foundation or a concrete footing.

4.0 STRUCTURAL BACKFILL



SECTION

ADDITIONAL SELECT GRANULAR STRUCTURAL BACKFILL NOTES:
 SATISFACTORY BACKFILL MATERIAL, PROPER PLACEMENT, AND COMPACTION ARE KEY FACTORS IN OBTAINING MAXIMUM STRENGTH AND STABILITY.
 THE BACKFILL MATERIAL SHOULD BE FREE OF ROCKS, FROZEN LUMPS, AND FOREIGN MATERIAL. THE BACKFILL SHOULD BE PLACED IN LIFTS THAT MEETS THE REQUIREMENTS OF AASHTO M-145 FOR SOIL CLASSIFICATIONS A-1, A-2.4, A-2.5, OR A-3 MODIFIED.
 SEE THE STRUCTURAL PLATE BACKFILL GROUP CLASSIFICATION TABLE ON THIS SHEET FOR THE SPECIFIC BACKFILL REQUIREMENTS FOR EACH SIDE OF THE STRUCTURE IN TIGHT LIFTS. EACH LIFT IS TO BE COMPACTED TO A MINIMUM OF 90% DENSITY PER AASHTO T-180.
 A WHEN PREFERRED, SAND OR FINE SAND IN THE NATIVE SOILS SUGGESTS THE NEED FOR A WELL GRADED OR SANDY SOIL.
 PROPOSED BACKFILL IS NOT A WELL-GRADED MATERIAL. A NON-WOVEN GEOTEXTILE FILTER FABRIC SHALL BE PLACED BETWEEN THE SELECT BACKFILL AND THE IN SITU MATERIAL.
 DURING BACKFILL, ONLY LIGHTWEIGHT TRACKED VEHICLES (P-4 OR LIGHTER) SHOULD BE NEAR THE STRUCTURE AS FILL PROGRESSES ABOVE THE CROWN AND TO THE FINISHED GRADE. THE ENGINEER AND CONTRACTOR ARE CAUTIONED THAT THE MINIMUM COVER MAY NEED TO BE INCREASED TO HANDLE TEMPORARY CONSTRUCTION VEHICLE LOADS (HEAVIER THAN P-4).

SELECT GRANULAR STRUCTURAL BACKFILL LIMITS.

INITIAL LIFTS OVER THE CROWN OF STRUCTURE AS INDICATED BY SHADED AREA TO BE COMPACTED TO REQUIRED DENSITY WITH HAND OPERATED EQUIPMENT OR WITH LIGHTWEIGHT (P-4 OR LIGHTER) EQUIPMENT.

- 1. ALL SELECT GRANULAR BACKFILL TO BE PLACED IN A BALANCED MANNER TO MAINTAIN THE STRUCTURE'S ALIGNMENT AND TO BE COMPACTED TO 90 PERCENT DENSITY PER AASHTO T-180.
- 2. COMPLETE AND REGULAR MONITORING OF THE ALUMINUM BOX CULVERT SHAPE IS NECESSARY DURING ALL BACKFILLING OF THE STRUCTURE. METHODS AND EQUIPMENT.
- 3. PREVENT DISTORTION OF SHAPE AS NECESSARY BY VARYING COMPACTION METHODS AND EQUIPMENT.
- 4. TRENCH WIDTH OTHER THAN 3 FEET SHALL BE BY DIRECTION OF THE ENGINEER OF RECORD.
- 5. SWITCH TO PLACING SELECT GRANULAR BACKFILL NEAR IN RADIAL LIFTS THE MIDDLE OF THE HAUNCH CURVE.

GROUP CLASSIFICATION	A-1-a	A-1-b	A-2-4	A-2-5	A-3
Stone Analysis Percent Passing	50 max.	50 max.	50 max.	50 max.	50 max.
No. 10 (2.000 mm)	30 max.	30 max.	30 max.	30 max.	30 max.
No. 40 (0.425 mm)	15 max.	15 max.	15 max.	15 max.	15 max.
No. 200 (0.075 mm)	5 max.	5 max.	5 max.	5 max.	5 max.
Atterberg Limits for Fraction Passing No. 40 (0.425 mm)					
Liquid Limits	—	—	40 max.	41 min.	—
Plasticity Index	5 max.	5 max.	10 max.	10 max.	Non Plastic
Usual Materials	Stone Fragment, Gravel and Sand	Stone Fragment, Gravel and Sand	Silty or Clayey Gravel and Sand	Coarse Sand	Coarse Sand

*Modified from M-145.

Fine beach sands, windblown sands, stream deposited sands, etc. exhibiting fine, rounded particles and typically classified by AASHTO M-145 as A-3 materials should not be used.

Reference the most current version of ASTM D2487, Standard Practices for Classification of Soils for Engineering Purposes (Unified Soil Classification System), for comparable soil groups.

Bedding preparation is critical to both structure performance and backfill compaction. The structure shall be prepared to receive the backfill in a uniform and consistent manner. The structure and/or rapid deterioration of the roadway. The bed should be free of rock formations, protruding stones, frozen lumps, roots, and other foreign matter that may cause unequal settlement. The structure shall be assembled in accordance with the manufacturer's instructions. All plates shall be unloaded and handled in a uniform and consistent manner. The structure shall be covered with a protective material to prevent damage to the structure during placement in trench or on bedding. When installed on a full invert or on flexible footing pads, assembly of the invert or footing pads shall start at the downstream end. Circumferential seam lips shall angle over the top of the structure in 8 inch loose lifts. Each lift shall be compacted to a minimum of 90 percent density per AASHTO T-180. Standard highway loads that meet the permissible design load limits for an Aluminum Box Culvert are not allowed on the structure until it is backfilled completely and pavement is in place. The structure shall be backfilled using clean well graded granular material in 8 inch loose lifts. Each lift shall be compacted to a minimum of 90 percent density per AASHTO T-180. Backfill must be placed symmetrically on each side of the structure in 8 inch loose lifts. Each lift shall be compacted to a minimum of 90 percent density per AASHTO T-180. Standard highway loads that meet the permissible design load limits for an Aluminum Box Culvert are not allowed on the structure until it is backfilled completely and pavement is in place. The addition of temporary soil for heavy construction loads is not feasible or permissible for Aluminum Box Culverts. By design, these structures are limited in the range of permissible fill heights and live loads. Heavy construction loads that exceed that of the particular highway live load design limits are not allowed on Aluminum Box Culverts without approval from the Engineer. If an aluminum headwall and/or wingwall system is specified, the select granular structural backfill limits shall extend just the full height of the structure. If a wingwall system is specified, the select granular structural backfill limits shall extend just the full height of the structure. If a wingwall system is specified, the select granular structural backfill limits shall extend just the full height of the structure. If a wingwall system is specified, the select granular structural backfill limits shall extend just the full height of the structure.

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