

Kirk Rd over Tappan Drain &
Tin Bill Rd over Keene Stewart Drain
Box Culverts
Letting Date: March 12th, 2026 8:30am

Consultant: _____

Address: _____

Sign & Print: _____

Date: _____

Phone & Fax: _____

Email: _____

Box Culvert:

Cost for Kirk Rd Box Culvert Complete - Shop Drawings, Fabrication, and delivery:

Total Cost: \$ _____

Cost for Tin Bill Rd Box Culvert Complete - Shop Drawings, Fabrication, and delivery:

Total Cost: \$ _____

**Completion Dates - Kirk over Tappen Drain Delivery of Box Culvert by June 15th, 2026
Tin Bill over Keene Stewart Drain Delivery by September 21st, 2026 or earlier as approved by
the Engineer.**

Bids are to be submitted on the Road Commission forms in a plainly marked, sealed envelope. No faxed or emailed bids accepted. Plans and specifications are available online at www.tuscolaroad.org. Please contact Brent Dankert, Tuscola County Highway Engineer at 989-233-7472 or highwayengineer@tuscolaroad.org with any questions. Any addenda must be noted and initialed.

If you are interested in bidding and have downloaded plans from the website, please email highwayengineer@tuscolaroad.org to be added to the plan holders list to make sure you receive addendums.

The Contractor has examined the proposal, permits, plans, and the location of the work described here in and is fully informed as to the nature of the work and the conditions relating to its performance. All work will be done in accordance with the requirements of Section 402, 403, and 406 of 2020 MDOT Standard Specifications for Construction, ASTM C1577 and as modified herein. In the event that the fabrication and/or delivery of the box culvert plus materials is delayed past the dates specified in the contract, the contractor will be fined \$1,000 per day unless approved by the Engineer.

Box Culvert – MDOT SSFC Section 406

To provide the necessary design and manufacturing of the box culverts complete at Kirk Road over Tappen Drain and Tin Bill over the Keene Stewart Drain which include all box culvert sections, wingwalls, and headwalls as described in detail below. All hardware/steel for the connection pours, manhole tees as needed, precast footings, and joint wrap material, is also to be provided by the manufacturer and included in the price for lump sum price for the box culvert. The manufacturer is responsible for delivery of box culvert, pipe, and materials to the project site. The manufacturer shall coordinate delivery with the Tuscola County Road Commission. The Tuscola County Road Commission is responsible for the site preparation and installation of the said material.

The proposed box culverts must follow all MDOT Local Agency design standards and guidelines. The following are all included in the cost for the manufacturing of the box culverts:

- All Box culvert sections must be mechanically connected.
- MDOT Standard Section 710 joints with joint waterproofing membrane and wrapped in fabric.
- All hardware/steel for the connection pours is also to be provided by the manufacturer
- The loading is designated HL-93 MOD, live load plus dynamic load allowance deflection does not exceed 1/800 of span length
- All reinforced steel and threaded anchors to be included
- Shop drawings will be sent to the engineer for approval. Please see the attached permit drawings for further details.

- Kirk at Tappen
 - 10' span by 8' tall by 32' long concrete box culvert
 - TCRC is in possession of 1 (one) 10' by 8' end section with headwall
 - Proposed sections must be compatible with the section in TCRC possession
 - 2 (two) precast footings are required
 - Precast Wingwalls compatible with section in TCRC possession
- Tin Bill at Keene Stewart
 - 12.5' span by 8' tall by 60' long concrete box culvert
 - Precast Footings
 - Precast Wingwalls
 - Precast Headwalls

Precast Box Culvert – MDOT SSFC Section 406

To provide the necessary design, manufacturing, and delivery of concrete box culverts and all associated components.

Measurement and Payment

The completed work will be paid for at the contract unit price for the following contract pay items and includes all material, equipment, and labor to manufacture and deliver these items completely.

<u>Pay Item</u>	<u>Unit</u>
Culv, Precast Conc Box, 12.5 foot by 8 foot	Lump Sum
Culv, Precast Conc Box, 10 foot by 8 foot	Lump Sum

Award will be made in the best interest of the Road Commission. On approval of the shop drawings, the TCRC will pay 10% of the total cost. Final payment will be made on delivery of all components. Manufacturer shall provide a detailed invoice.

Attachments

- Agreement
- Title IV and VI Compliance
- Section 9.7 Insurance Requirements
- EGLE Permit WRP045079 – S. Kirk Road over Tappan Drain
- EGLE Permit WRP044532 – Tin Bill Road at Keene Stewart Drain
- Shop Drawing for Box Culvert Component in possession of TCRC for Kirk at Tappen Drain

Warranty:

The Contractor hereby warrants his work and material for one year from the date of delivery. The Road Commission may choose to hold up to 10% of the project bid cost until the warranty expires.

LIABILITY

The consultant shall at all times exercise extreme care and shall assume all liability for any damages resulting from his operations and shall hold the Tuscola County Road Commission harmless from any such claims or damages.

The consultant must obtain a Tuscola County Right of Way Permit before any work can begin.

The successful bidder must also furnish certificates or policies giving satisfactory evidence of insurance coverage in accordance with *Tuscola County Road Commission Policies and Procedures Manual Section 9.7 Insurance Requirements*, to insure adequate payment for any damage caused by his operations.

The consultant shall, prior to the start of work, file with the Tuscola County Road Commission a certificate that he carries Workmen's Compensation Insurance. The attached certificate of insurance is required for the successful bidder or bidders.

NON-COMPLIANCE WITH PROJECT SPECIFICATION PROVISIONS

Any variation from the specifications of the project herein without written approval from the Tuscola County Road Commission and/or its authorized representative may result in, at the discretion of the Tuscola County Road Commission, the voiding and/or cancelling of the acceptance of any contract, resulting from this project.

The Tuscola County Board of Road Commissioners reserves the right to accept or reject any or all proposals and to re-advertise or to accept the proposal, that in their opinion, is in the best interest of Tuscola County.

AGREEMENT

TUSCOLA COUNTY ROAD COMMISSION – 1733 S. MERTZ ROAD, CARO, MI 48723
PAGE 1 OF 1

This agreement made this _____ day of _____, 20_____
by and between the Board of Tuscola County Road Commissioners and _____
_____.

1. _____ hereby agrees to undertake the following work
in the status of an independent contractor performing the following job:

_____.

2. Said contractor, _____, shall at all
times exercise extreme care and shall assume any and all liability for property damage or bodily
injury resulting from the above operation by this employees, agents, assigns, sub-contractors
and anyone else acting under his control or direction; and will indemnify, hold harmless and
defend the Tuscola County Road Commission, its Commissioners or employees from any and all
claims for property damage or bodily injury arising out of this Agreement.

3. Said contractor, _____, while
engaged in said job shall maintain and furnish certificates of insurance, naming the Tuscola
County Road Commission and Commissioners as an additional insured under the policy,
evidence of insurance coverage in accordance with *Tuscola County Road Commission Policies
and Procedures Manual Section 9.7 Insurance Requirements*, and shall furnish the Tuscola
County Road Commission copies of said certificates of insurance prior to commencing any work
on said project.

Additionally, said contractor, _____, shall furnish
prior to start of said job with the Board of Tuscola County Road Commissioners, a policy of
insurance certifying he carries and has in effect worker's compensation insurance on all those
required to be covered under Michigan law.

4. The address of the Board of Tuscola County Road Commissioners is 1733 S, Mertz Rd., Caro, MI
48723.

Witnessed:

Board of Tuscola County Road Commissioners

Contractor

Contractor bid will not be accepted unless the enclosed Agreement is Signed and Returned with your bid.

TUSCOLA COUNTY ROAD COMMISSION

TITLE IV COMPLIANCE

APPENDIX A

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees as follows:

1. Compliance with Regulations: The contractor shall comply with the Regulations relative to non-discrimination in Federally-assisted programs of the Department of Transportation, Title 49, code of Federal Regulations, Part 21 as they may be amended from time to time, (hereinafter referred to as the Regulations), which are herein incorporated by reference and made a part of this contract.
2. Non-discrimination: The contractor, with regard to the work performed by it during the contract, shall not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment.
3. The contractor shall not participate either directly or indirectly in the discrimination prohibited by section 21.5 of the Regulation, including employment practices when the contractor covers a program set forth in Appendix B of the Regulations.
4. Solicitations for Subcontracts, Including Procurements of Materials and Equipment: In all solicitations either by competitive bidding or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials or leases of equipment, each potential subcontractor or supplier shall be notified by the contractor of the contractor's obligations under this contract and the Regulations relative to non-discrimination on the grounds of race, color, or national origin.
5. Information and Reports: The contractor shall provide all information and reports required by the Regulations, or directives issued pursuant thereto, and shall permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Tuscola County Road Commission to be pertinent to ascertain compliance with such Regulations or directives. Where any information required of a contractor is in the exclusive possession of another who fails or refuses this information, the contractor shall so certify to the State highway department, or the Federal Highway Administration as appropriate, and shall set forth what efforts it has made to obtain the information.
6. Sanctions for Non-compliance: In the event of the contractor's non-compliance with the non-discrimination provisions of this contract, the Tuscola County Road Commission Shall Impose such contract sanctions as it or the Federal Highway Administration may determine to be appropriate, including, but not limited to:
 - a) Withholding of payments to the contractor under the contract until the contractor complies, and/or
 - b) Cancellation, termination, or suspension of the contract, in whole or in part.
7. Incorporation of Provisions: The contractor shall Include the provisions of paragraphs (1) through (6) in every subcontract, including procurement of materials and leases of equipment, unless exempt by the Regulations, or directives Issues pursuant thereto. The contractor shall take such action with respect to any subcontract or procurement as the Tuscola County Road Commission may direct as a means of enforcing such provisions including sanctions for noncompliance: Provided, however, that, in the event u contractor becomes involved in, or is threatened with, litigation with a subcontractor or supplier as a result of such direction, the contractor may request the Tuscola County Road Commission to enter into such litigation to protect the interests of the County, and, in addition, the contractor may request the State highway department to enter into such litigation to protect the interests of the State and/or the United States to enter into such litigation to protect the interests of the United States.

"The TUSCOLA COUNTY ROAD COMMISSION, in accordance with Title VI of the Civil Rights Act of 1964, 78-252, 42 U.S.C. 2000d-222d-4, the Civil Rights Act of 1987, P.L. 100-259, and Title 49, Code of Federal Regulations, Department of Transportation, subtitle A, Office of the Secretary, Part 21, Non-discrimination in federally assisted programs of the Department of Transportation issued pursuant to such Act, hereby notifies all bidders that it will affirmatively insure that in any contract entered into pursuant to this advertisement, Disadvantaged Business Enterprise firms will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of Race, Color, Sex, Age, National Origin, or Handicap in consideration for an award. For additional compliance information, please see Appendix A."



9.7. INSURANCE REQUIREMENTS

Agriculture Hauling Permit	
Type of Insurance	Notes
None	As required by Statute per the Attorney General Opinion

Oversize / Overweight Permits						
Type of Insurance	Coverage Limits	Addl. Insured	Waiver of Subrogation	Primary/Non Contributory	Claims Made	Indemnification
Auto Liability	Michigan No Fault Coverage/Property Protection (PPI) \$1M Statutory Limit	No	No	No	No	Yes

Driveway Permit	
Individual Homeowner Permit Holder - Residential Driveway	
Type of Insurance	Notes
None	Advise homeowner they will be responsible for any damage done to the ROW
	Advise homeowner they will be responsible for any injuries as a result of the work in the ROW
	Advise homeowner they will be required to indemnify the RC as outlined in the ROW permit

Contractor Permit Holder - Commercial or Residential Driveway

Type of Insurance	Coverage Limits	Addl. Insured	Waiver of Subrogation	Primary/Non Contributory	Claims Made	Indemnification
Commercial General Liability (CGL)	Each Occurrence	\$2,000,000	No	No	No	Yes
	Products Comp/Op Aggregate	\$3,000,000				
	General Aggregate	\$3,000,000				

Special Event / Parade Permits						
Type of Insurance	Coverage Limits	Addl. Insured	Waiver of Subrogation	Primary/Non Contributory	Claims Made	Indemnification
Commercial General Liability (CGL)	Each Occurrence	\$2,000,000	Yes	Yes	Yes	No
	General Aggregate	\$2,000,000				
Notes		For special events requiring participant waivers - Endeavor to have the RC added to the waiver. If alcohol is being served, host liquor liability is required.				

General Right of Way Permit	
Individual Homeowner Permit Holder	
Type of Insurance	Notes
None	Advise homeowner they will be responsible for any damage done to the ROW
	Advise homeowner they will be responsible for any injuries as a result of the work in the ROW
	Advise homeowner they will be required to indemnify the RC as outlined in the ROW permit

Contractor Permit Holder

Type of Insurance	Coverage Limits	Addl. Insured	Waiver of Subrogation	Primary/Non Contributory	Claims Made	Indemnification
Commercial General Liability (CGL)	Each Occurrence	\$2,000,000	Yes	Yes	Yes	No
	Products Comp/Op Aggregate	\$3,000,000				
	General Aggregate	\$3,000,000				
Auto Liability	Michigan No Fault Coverage/Property Protection (PPI) \$1M Statutory Limit	No	No	No	No	Yes
Professional Liability, as required	Each Occurrence & Aggregate	\$2,000,000	N/A	N/A	N/A	Yes

Umbrella may be used to meet limit requirements: Commercial General Liability & Auto Liability
 Retro Date for Professional Liability must be prior to issuing permit date.
 It is recommended the Self Insured Retention (SIR) for CGL be no greater than \$25,000.



NOTICE OF AUTHORIZATION

Permit Number: WRP045079 v. 2

Date Issued: May 14, 2025

Site Name: 79 - S. Kirk Road over a tributary to Northwest Drain (Tappan Drain)

Revision Date: October 9, 2025

Expiration Date: May 14, 2030

The Michigan Department of Environment, Great Lakes, and Energy (EGLE), Water Resources Division, P.O. Box 30458, Lansing, Michigan 48909-7958, under provisions of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended; specifically:

- Part 31, Floodplain Regulatory Authority of the Water Resources Protection.
- Part 301, Inland Lakes and Streams.
- Part 303, Wetlands Protection.
- Part 315, Dam Safety.
- Part 323, Shorelands Protection and Management.
- Part 325, Great Lakes Submerged Lands.
- Part 353, Sand Dunes Protection and Management.

Authorized activity:

Remove the existing crossing of South Kirk Road over a tributary to Northwest Drain (Tappan Drain) and replace it with a 10-foot span by 8-foot tall by 32-foot-long precast concrete box culvert with headwalls and wingwalls. Bury the replacement structure invert 1.67 feet below the stream bottom. Below the ordinary high-water mark, dredge and fill 178 cubic yards.

To be conducted at property located in: Tuscola County
Waterbody: Tributary to Northwest Drain (Tappan Drain)
Section 07, Town 12N, Range 08E, Juniata Township

Permittee:

Tuscola County Road Commission
1733 Mertz Road
Caro, Michigan 48723

Issued By: 
Rachel Matejewski
Transportation Review Unit
Water Resources Division
517-331-2913

*This notice must be displayed at the site of work.
Laminating this notice or utilizing sheet protectors is recommended.
Please refer to the above permit number with any questions or concerns.*

EGLE
WRP045079 v2.0
Approved
Issued On:05/14/2025
Expires On:05/14/2030



**MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY
WATER RESOURCES DIVISION
PERMIT**

Issued To:

**Brent Dankert
Tuscola County Road Commission
1733 Mertz Road
Caro, Michigan 48723**

Permit No: WRP045079 v.2
Submission No.: HQF-FW1N-WRDGK
Site Name: 79 - S. Kirk Road over a tributary to Northwest Drain (Tappan Drain)
Issued: May 14, 2025
Revised: October 9, 2025
Expires: May 14, 2030

This permit is being issued by the Michigan Department of Environment, Great Lakes, and Energy (EGLE), Water Resources Division, under the provisions of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA); specifically:

- | | |
|--|---|
| <input checked="" type="checkbox"/> Part 301, Inland Lakes and Streams | <input type="checkbox"/> Part 323, Shorelands Protection and Management |
| <input type="checkbox"/> Part 303, Wetlands Protection | <input type="checkbox"/> Part 325, Great Lakes Submerged Lands |
| <input type="checkbox"/> Part 315, Dam Safety | <input type="checkbox"/> Part 353, Sand Dunes Protection and Management |
| <input type="checkbox"/> Part 31, Water Resources Protection (Floodplain Regulatory Authority) | |

EGLE certifies that the activities authorized under this permit are in compliance with the State Coastal Zone Management Program and certifies without conditions under the Federal Clean Water Act, Section 401 that the discharge from the activities authorized under this permit will comply with Michigan's water quality requirements in Part 31, Water Resources Protection, of the NREPA and associated administrative rules, where applicable.

Permission is hereby granted, based on permittee assurance of adherence to State of Michigan requirements and permit conditions, to:

Authorized Activity:

Remove the existing crossing of South Kirk Road over a tributary to Northwest Drain (Tappan Drain) and replace it with a 10-foot span by 8-foot tall by 32-foot-long precast concrete box culvert with headwalls and wingwalls. Bury the replacement structure invert 1.67 feet below the stream bottom. Below the ordinary high-water mark (OHWM), dredge and fill 178 cubic yards.

Waterbody Affected: Tributary to Northwest Drain (Tappan Drain)
Property Location: Tuscola County, Juniata Township, T12N, R08E, Section 07 & 08.

**EGLE
WRP045079 v2.0
Approved
Issued On:05/14/2025
Expires On:05/14/2030**

Authority granted by this permit is subject to the following limitations:

- A. Initiation of any work on the permitted project confirms the permittee's acceptance and agreement to comply with all terms and conditions of this permit.
- B. The permittee, in exercising the authority granted by this permit, shall not cause unlawful pollution as defined by Part 31 of the NREPA.
- C. This permit shall be kept at the site of the work and available for inspection at all times during the duration of the project or until its date of expiration.
- D. All work shall be completed in accordance with the approved plans and specifications submitted with the application and/or plans and specifications attached to this permit.
- E. No attempt shall be made by the permittee to forbid the full and free use by the public of public waters at or adjacent to the structure or work approved.
- F. It is made a requirement of this permit that the permittee give notice to public utilities in accordance with 2013 PA 174 (Act 174) and comply with each of the requirements of Act 174.
- G. This permit does not convey property rights in either real estate or material, nor does it authorize any injury to private property or invasion of public or private rights, nor does it waive the necessity of seeking federal assent, all local permits, or complying with other state statutes.
- H. This permit does not prejudice or limit the right of a riparian owner or other person to institute proceedings in any circuit court of this state when necessary to protect his rights.
- I. Permittee shall notify EGLE within one week after the completion of the activity authorized by this permit.
- J. This permit shall not be assigned or transferred without the written approval of EGLE.
- K. Failure to comply with conditions of this permit may subject the permittee to revocation of permit and criminal and/or civil action as cited by the specific state act, federal act, and/or rule under which this permit is granted.
- L. All dredged or excavated materials shall be disposed of in an upland site (outside of floodplains, unless exempt under Part 31 of the NREPA, and wetlands).
- M. In issuing this permit, EGLE has relied on the information and data that the permittee has provided in connection with the submitted application for permit. If, subsequent to the issuance of a permit, such information and data prove to be false, incomplete, or inaccurate, EGLE may modify, revoke, or suspend the permit, in whole or in part, in accordance with the new information.
- N. The permittee shall indemnify and hold harmless the State of Michigan and its departments, agencies, officials, employees, agents, and representatives for any and all claims or causes of action arising from acts or omissions of the permittee, or employees, agents, or representative of the permittee, undertaken in connection with this permit. The permittee's obligation to indemnify the State of Michigan applies only if the state: (1) provides the permittee or its designated representative with a written notice of the claim or cause of action within 30 days after it is received by the state, and (2) consents to the permittee's participation in the proceeding on the claim or cause of action. It does not apply to contested case proceedings under the Administrative Procedures Act, 1969 PA 306, as amended, challenging the permit. This permit shall not be construed as an indemnity by the State of Michigan for the benefit of the permittee or any other person.
- O. Noncompliance with these terms and conditions and/or the initiation of other regulated activities not specifically authorized shall be cause for the modification, suspension, or revocation of this permit, in whole or in part. Further, EGLE may initiate criminal and/or civil proceedings as may be deemed necessary to correct project deficiencies, protect natural resource values, and secure compliance with statutes.
- P. If any change or deviation from the permitted activity becomes necessary, the permittee shall request, in writing, a revision of the permitted activity from EGLE. Such revision request shall include complete documentation supporting the modification and revised plans detailing the

proposed modification. Proposed modifications must be approved, in writing, by EGLE prior to implementation.

- Q. This permit may be transferred to another person upon written approval of EGLE. The permittee must submit a written request to EGLE to transfer the permit to the new owner. The new owner must also submit a written request to EGLE to accept transfer. The new owner must agree, in writing, to accept all conditions of the permit. A single letter signed by both parties that includes all the above information may be provided to EGLE. EGLE will review the request and, if approved, will provide written notification to the new owner.
- R. Prior to initiating permitted construction, the permittee is required to provide a copy of the permit to the contractor(s) for review. The property owner, contractor(s), and any agent involved in exercising the permit are held responsible to ensure that the project is constructed in accordance with all drawings and specifications. The contractor is required to provide a copy of the permit to all subcontractors doing work authorized by the permit.
- S. Construction must be undertaken and completed during the dry period of the wetland. If the area does not dry out, construction shall be done on equipment mats to prevent compaction of the soil.
- T. Authority granted by this permit does not waive permit requirements under Part 91, Soil Erosion and Sedimentation Control, of the NREPA, or the need to acquire applicable permits from the County Enforcing Agent (CEA).
- U. Authority granted by this permit does not waive permit requirements under the authority of Part 305, Natural Rivers, of the NREPA. A Natural Rivers Zoning Permit may be required for construction, land alteration, streambank stabilization, or vegetation removal along or near a natural river.
- V. The permittee is cautioned that grade changes resulting in increased runoff onto adjacent property are subject to civil damage litigation.
- W. Unless specifically stated in this permit, construction pads, haul roads, temporary structures, or other structural appurtenances to be placed in a wetland or on bottomland of the water body are not authorized and shall not be constructed unless authorized by a separate permit or permit revision granted in accordance with the applicable law.
- X. For projects with potential impacts to fish spawning or migration, no work shall occur within fish spawning or migration timelines (i.e., windows) unless otherwise approved in writing by the Michigan Department of Natural Resources (MDNR), Fisheries Division.
- Y. Work to be done under authority of this permit is further subject to the following special instructions and specifications:
1. Authority granted by this permit does not waive compliance requirements under Part 91, Soil Erosion and Sedimentation Control, of the NREPA. Any discharge of sediment into waters of the state and/or to adjoining properties or off the road right-of-way is a violation of this permit, Part 91, and Part 31, Water Resources Protection, of the NREPA. Failure to comply with the soil erosion permit, agency procedures and/or the approved soil erosion plan for the site and/or failure to properly install and/or maintain soil erosion and sedimentation control procedures may be a violation of this permit, and is a violation of Part 91, and Part 31, Water Resources Protection, of the NREPA. A violation of these parts subjects the permittee to potential fines and penalties. To locate the Soil Erosion Program Administrator for your county, visit <https://www.michigan.gov/egle/about/organization/water-resources/soil-erosion/sesc-overview> and select "Soil Erosion and Sedimentation Control Agencies".
 2. The authority to conduct the activity as authorized by this permit is granted solely under the provisions of the governing act as identified above. This permit does not convey, provide, or otherwise imply approval of any other governing act, ordinance, or regulation, nor does it waive

the permittee's obligation to acquire any local, county, state, or federal approval or authorization necessary to conduct the activity.

3. No fill, excess soil, or other material shall be placed in any wetland, floodplain, or surface water area not specifically authorized by this permit, its plans, and specifications.
4. This permit does not authorize or sanction work that has been completed in violation of applicable federal, state, or local statutes.
5. The permit placard shall be kept posted at the work site in a prominent location at all times for the duration of the project or until permit expiration.
6. This permit is being issued for the maximum time allowed and no extensions of this permit will be granted. Initiation of the construction work authorized by this permit indicates the permittee's acceptance of this condition. The permit, when signed by EGLE, will be for a five-year period beginning on the date of issuance. If the project is not completed by the expiration date, a new permit must be sought.
7. The permittee is responsible for acquiring all necessary easements or rights-of-way before commencing any work authorized by this permit. All construction operations relating to, or part of this project shall be confined to the existing right-of-way limits or other acquired easements.
8. Temporary soil erosion and sedimentation control measures shall be installed before or upon commencement of the earth change and shall be maintained daily. Temporary soil erosion and sedimentation control measures shall be maintained until permanent soil erosion and sedimentation control measures are in place and the area is stabilized. Upon project completion, any accumulated materials shall be removed and disposed of at an upland site, the soil erosion and sedimentation control measures shall then be removed in their entirety and the area restored to its original configuration and cover. Permanent soil erosion and sedimentation control measures for all slopes, channels, ditches, or any disturbed area shall be installed within five (5) calendar days after final grading, or the final earth change has been completed.
9. Prior to the removal of the existing structures located in the water, cofferdams of interlocking steel sheet piling, or other acceptable barriers approved in advance by the Engineer shall be installed to isolate all construction activities from the stream. The cofferdam shall be maintained in good working order throughout the duration of the project. Any accumulated sediment shall be removed and disposed of at an upland location. Normal water flow shall be reestablished if work is stopped for any length of time other than what may be encountered in a normal work week.
10. The crest of the barrier shall be placed at an elevation that will not cause upstream flooding in the event of high flow conditions. It shall be less than two feet above the OHWM, or for barriers that require an elevation greater than two feet above the OHWM, the maximum barrier width must be less than 1/3 of the stream width.
11. All cofferdam and temporary steel sheet pile that blocks no more than 1/3 of the stream flow shall then be removed in its entirety immediately after use has been discontinued or within 90 days of initiation of the authorized activity, whichever is shorter. If the temporary structure blocks more than 1/3 of the stream flow it must be removed immediately after use has been discontinued or within 14 days of initial installation, whichever is shorter.
12. For cofferdams that block more than 1/3 of the water flow, a pump system is required to pump water around the construction activity. Water shall be discharged into the watercourse with appropriate treatments to remove suspended particles and to dissipate energy. An extra pump shall be kept on site in the event of failure.
13. All cofferdam and temporary steel sheet piling shall be removed immediately, and flow returned to normal after use has been discontinued. All barriers shall be removed in its entirety, unless specifically shown to be left in place on the plans. Cofferdam and sheet pile

that are to remain shall be cut off at the elevation shown on the plan. Cofferdam and sheet pile left above the stream bottom must be approved by EGLE. Areas where the sheet piling is cut off shall be covered with riprap as shown in the plans or backfilled with other acceptable material approved in advance by the Engineer and EGLE. Projects where the cofferdam is cut off less than one foot below the stream bottom must be submitted for individual review before any revision to current permit conditions will be allowed.

14. All raw areas in uplands resulting from the permitted construction activity shall be effectively stabilized with sod and/or seed and mulch (or other technology specified by this permit or project plans) in a sufficient quantity and manner to prevent erosion and any potential siltation to surface waters or wetlands. Temporary stabilization measures shall be installed before or upon commencement of the permitted activity and shall be maintained until permanent measures are in place. Permanent measures shall be in place within five (5) days of achieving final grade.
15. All raw earth within 100 feet of a lake, stream, or wetland that is not brought to final stabilization by the end of the active growing season shall be temporarily stabilized with mulch blankets in accordance with the following dates: September 20th for the Upper Peninsula, October 1st for the Lower Peninsula north of US-10, and October 10th for the Lower Peninsula south of US-10.
16. Dredged material, including organic and inorganic sediment, vegetation, and other material removed from bottomlands, shall not be placed in any wetland, floodplain or critical dune, or below the OHWM of any inland lake, Great Lake, or stream. Dredged material placed on upland shall be stabilized in such a manner to prevent erosion of any material into any waterbody, including wetlands, or floodplain.
17. All fill shall consist of clean inert material that will not cause siltation nor contain soluble chemicals, organic matter, pollutants, or contaminants. All fill shall be contained in such a manner so as not to erode into any surface water, floodplain, or wetland. All raw areas associated with the permitted activity shall be stabilized with sod and/or seed and mulch, riprap, or other technically effective methods as necessary to prevent erosion.
18. During removal of the existing structures, every precaution shall be taken to prevent debris from entering any watercourse. Any debris reaching the watercourse during the removal and/or reconstruction of the structure shall be immediately retrieved from the water. All material shall be disposed of in an acceptable manner consistent with local, state, and federal regulations.
19. The existing structure shall be kept open to pass the stream flow during removal of the existing road fill.
20. The placement of the new culvert and the initial placement of fill in the stream shall be done immediately after removal of the existing culvert. The placement shall be conducted in such a manner that all flow is immediately passed through the new culverts, allowing the major placement of fill to be done in the dry or in still water where erosion and siltation will be minimized. The fill material used in this initial placement shall be washed gravel, coarse aggregate, or rock and shall be placed at both ends of the culvert to a level above normal water level before backfill material is placed.
21. The culvert shall be installed to align with the center line of the existing stream at both the inlet and outlet ends and must be buried below the stream bed to provide a natural channel substrate through the structure as shown on the approved plans.
22. Road fill side slopes shall not be steeper than 1-on-2 (1 vertical to 2 horizontal) except where headwalls of reinforced concrete, mortar masonry, dry masonry, or other acceptable methods are used.
23. Road fill side slopes terminating in the watercourses and any raw banks resulting from the construction shall be stabilized with temporary measures in accordance with appropriate Best

Management Practices based on site conditions, and if necessary, may be riprapped extending above the OHWM, before or upon commencement of the permitted activity.

Temporary stabilization measures shall be maintained until permanent measures are in place.

- 24. All other road fill slopes, ditches, and other raw areas draining directly to the watercourse may be protected with riprap, sod and/or seed and mulch as may be necessary to provide effective erosion protection.
- 25. If the project, or any portion of the project, is stopped and lies incomplete for any length of time (other than that encountered in a normal work week) every precaution shall be taken to protect the incomplete work from erosion, including the placement of temporary gravel bag riprap, temporary seeding and mulching, or other acceptable temporary protection.
- 26. No work shall be done in the watercourse during periods of above-normal flows except as necessary to prevent erosion.

Issued By: 
 Rachel Matejewski
 Transportation Review Unit
 Water Resources Division
 517-331-2913

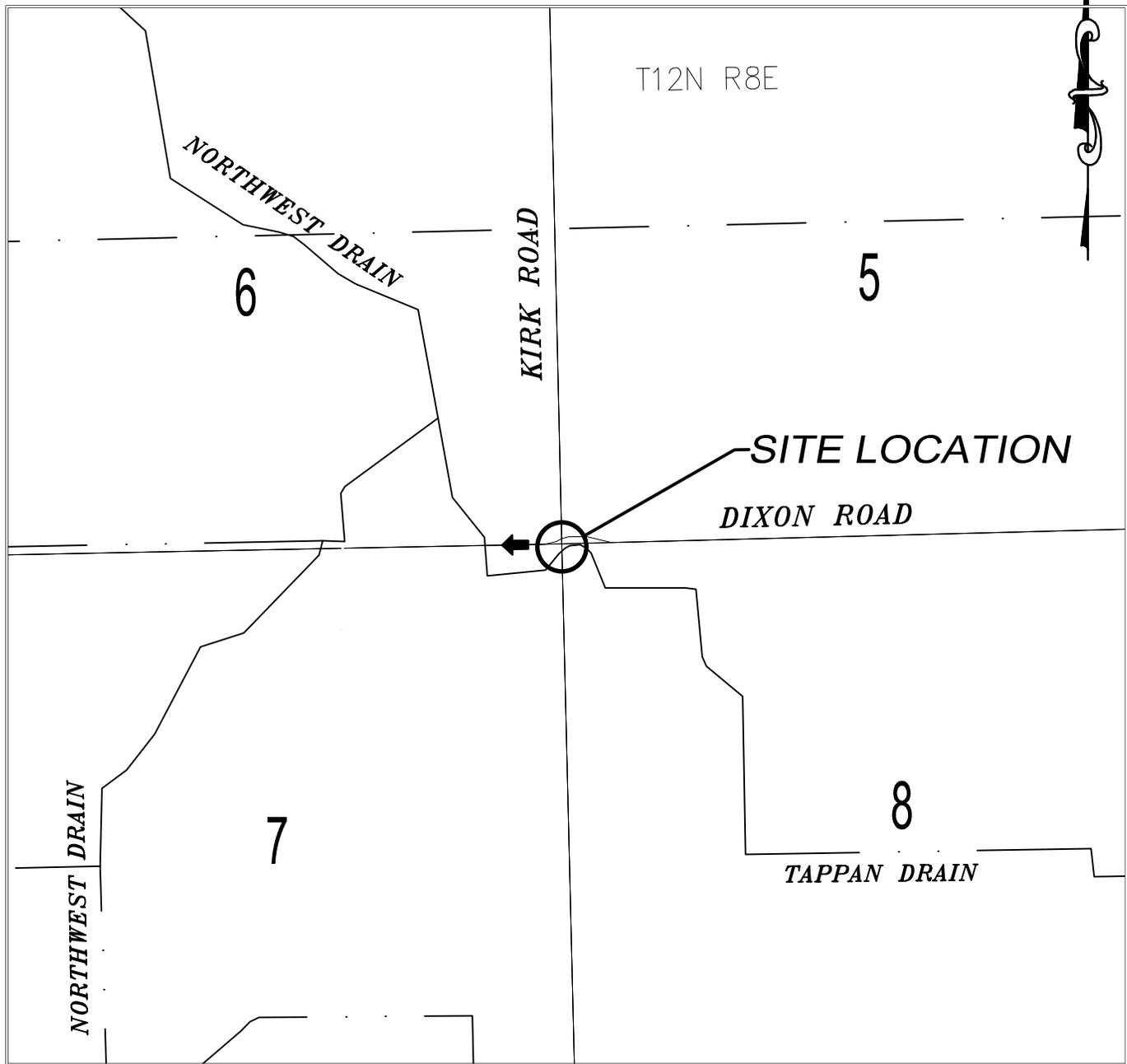
THIS PERMIT MUST BE SIGNED BY THE PERMITTEE TO BE VALID.

I hereby assure that I have read, am familiar with, and agree to adhere to the terms and conditions of this permit.

Permittee Signature

Date

- cc: Patrick Phelan, BMJ Engineers & Surveyors
- Erik Schwanz, BMJ Engineers & Surveyors
- Nathan Gerrow, BMJ Engineers & Surveyors
- Jason Gostiaux MDNR, Fisheries Division
- Pat Brickel, MDNR, Wildlife Division
- Juniata Township Clerk
- Tuscola County Drain Commissioner
- Tuscola County CEA



DRAINAGE AREA:
 936 ACRES = 1.46 SQ. MI.

FOR:
 TUSCOLA
 COUNTY
 ROAD
 COMMISSION



TITLE: Tappan Drain at Kirk Road BMJ #2308.09	
DRAWN BY: NSY	DATE: 09-09-25
CHECKED BY: EBS	PAGE: 1 OF: 7

LOCATION: Tappan Drain cross culvert at the intersection of Kirk Road and Dixon Road on the south side of the road in Section 7 of Juniata Twp, T12N R08E	
APPROVED: EBS	SCALE: 1" = 1320'

EGLE
 WRP043079 v2.0
 Approved
 Issued On: 05/14/2025
 Expires On: 05/14/2030

BENCHMARK:
 ATOP SET LAG IN E FACE UT POLE
 ± 30' W CL DRAIN
 ± 75' S CULV.
 ELEVATION: 656.16

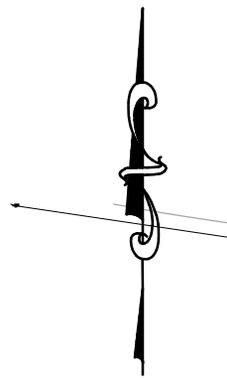
PROPERTY OWNER:
 GREG ACKERMAN
 5486 DIXON RD.
 VASSAR, MI 48768
 014-005-000-1000-04

PROPERTY OWNER:
 THOMAS TRNIKLEIN
 5506 DIXON RD.
 VASSAR, MI 48768
 014-006-000-1200-00

SECTION 5
 JUNIATA TWP.
 T12N-R8E
 TUSCOLA COUNTY,
 MICHIGAN

SECTION 6
 JUNIATA TWP.
 T12N-R8E
 TUSCOLA COUNTY,
 MICHIGAN

DIXON ROAD



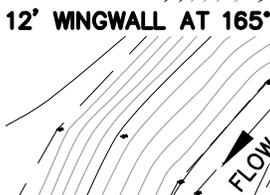
PROPOSED CULVERT
 32' OF 10' SPAN X 8' RISE PRECAST CONCRETE BOX
 W/ 3.5' C.I.P. HEADWALL AND WINGWALLS AS NOTED
 RECESSED 20"
 END AREA: 61.3 SFT
 U.S. FLOW LINE 649.75 INV 648.08
 D.S. FLOW LINE 649.65 INV 647.98

EXISTING CONCRETE BRIDGE
 26' OF 9'3" X 7'
 END AREA: 64.75 SFT
 U.S. FLOW LINE 648.47
 D.S. FLOW LINE 649.41

PROPERTY OWNER:
 ADAMS-LOSEE AMIE
 V/L S KIRK RD.
 VASSAR, MI 48733
 014-007-000-0100-01

12' WINGWALL AT 165°

12' WINGWALL AT 165°



9' WINGWALL AT 180°

PROPERTY OWNER:
 FRANK BARANIC
 1544 S KIRK RD.
 VASSAR, MI 48768
 014-007-000-0150-00

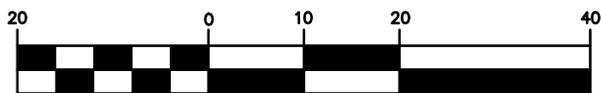
SECTION 7
 JUNIATA TWP.
 T12N-R8E
 TUSCOLA COUNTY,
 MICHIGAN

KIRK ROAD

PROPERTY OWNER:
 GREG ACKERMAN TRUST
 5486 DIXON RD.
 VASSAR, MI 48768
 014-008-000-0400-00

SECTION 8
 JUNIATA TWP.
 T12N-R8E
 TUSCOLA COUNTY,
 MICHIGAN

GRAPHIC SCALE



(IN FEET)
 1 inch = 20 ft.

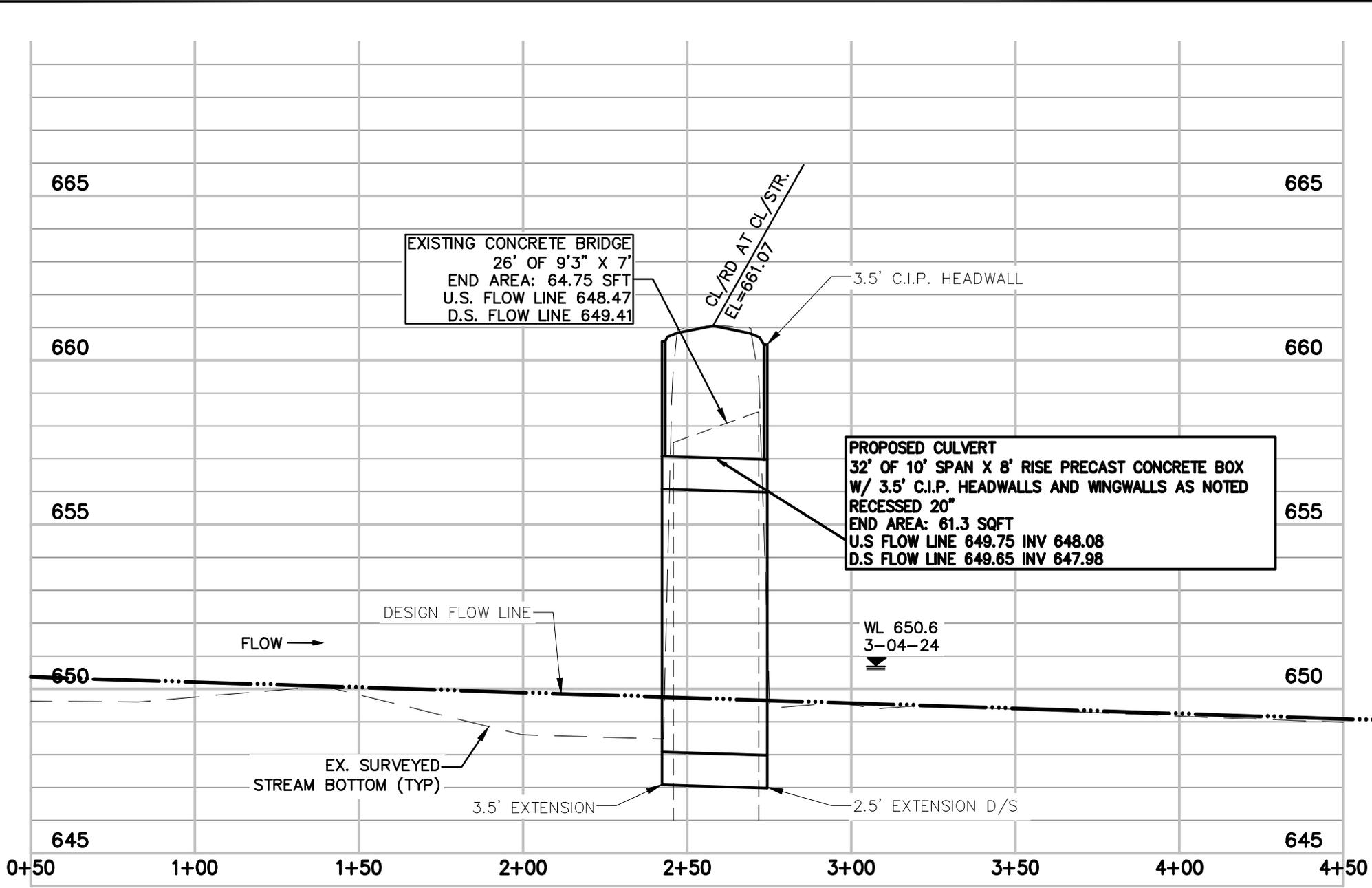
FOR:
 TUSCOLA COUNTY
 ROAD
 COMMISSION



TITLE: Tappan Drain at Kirk Road BMJ #2308.09	
DRAWN BY: SAS	DATE: 09-09-25
CHECKED BY: EBS	PAGE: 2 OF: 7

LOCATION: Tappan Drain cross culvert at the intersection of Kirk Road and Dixon Road on the south side of the road in Section 7 of Juniata Twp, T12N R08E	
APPROVED: PRP	SCALE: 1" = 20'

EGLE
 WRP043079 v2.0
 Approved
 Issued On: 05/14/2025
 Expires On: 05/14/2030



FOR:
TUSCOLA COUNTY ROAD COMMISSION



TITLE: Tappan Drain at Kirk Road
 BMJ #2308.09

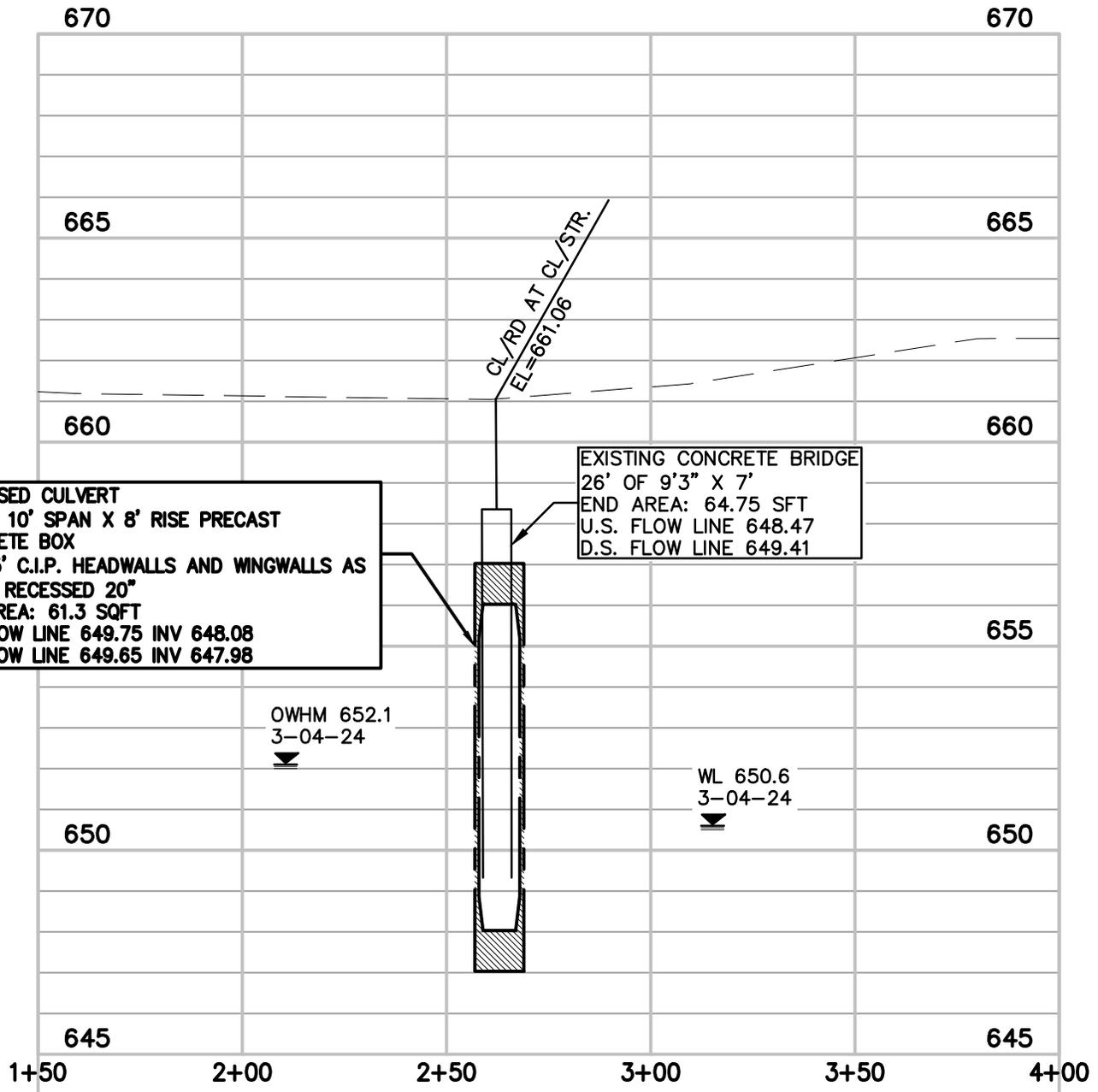
DRAWN BY: SAS	DATE: 09-09-25
CHECKED BY: EBS	PAGE: 3 OF: 7

LOCATION: Tappan Drain cross culvert at the intersection of Kirk Road and Dixon Road on the south side of the road in Section 7 of Juniata Twp, T12N R08E

APPROVED: EBS

SCALE: 1" = 40'

EGLE
 WRP#4079 v2.0
 Approved
 Issued On:05/14/2025
 Expires On:05/14/2030



FOR:
TUSCOLA
COUNTY
ROAD
COMMISSION



TITLE: Tappan Drain at Kirk Road
BMJ #2308.09

DRAWN BY: SAS	DATE: 09-09-25
CHECKED BY: EBS	PAGE: 4 OF: 7

LOCATION: Tappan Drain cross culvert at the intersection of Kirk Road and Dixon Road on the south side of the road in Section 7 of Juniata Twp, T12N R08E

APPROVED: EBS

SCALE: 1" = 40'H
1" = 4'V

EGLE
WRP045079 v2.0
Approved
Issued On: 05/14/2025
Expires On: 05/14/2030



NOTICE OF AUTHORIZATION

Permit Number: WRP044532 v. 1

Date Issued: March 21, 2025

Site Name: 79 - Tin Bill Road at Keene Stewart Drain

Expiration Date: March 21, 2030

The Michigan Department of Environment, Great Lakes, and Energy (EGLE), Water Resources Division, P.O. Box 30458, Lansing, Michigan 48909-7958, under provisions of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended; specifically:

- Part 31, Floodplain Regulatory Authority of the Water Resources Protection.
- Part 301, Inland Lakes and Streams.
- Part 303, Wetlands Protection.
- Part 315, Dam Safety.
- Part 323, Shorelands Protection and Management.
- Part 325, Great Lakes Submerged Lands.
- Part 353, Sand Dunes Protection and Management.

Authorized activity:

Remove the existing crossing of Tin Bill Road over Keene Stewart Drain and replace it with a 12.5-foot span by 8-foot tall by 60-foot-long concrete box culvert with wingwalls. The replacement structure will be buried two feet below the stream bottom. Below the Ordinary High-Water Mark, dredge 151 cubic yards and fill 62 cubic yards. Within the 100-year floodplain, excavate 511 cubic yards and fill 404 cubic yards.

To be conducted at property located in: Tuscola County, Waterbody: Keene Stewart Drain
Wells Township, T12N, R10E, Section 05

Permittee:

Tuscola County Road Commission
1733 Mertz Road
Caro, Michigan 48723

Issued By: 
Rachel Matejewski
Transportation Review Unit
Water Resources Division
517-331-2913

*This notice must be displayed at the site of work.
Laminating this notice or utilizing sheet protectors is recommended.
Please refer to the above permit number with any questions or concerns.*

EGLE
WRP044532 v1.0
Approved
Issued On:03/21/2025
Expires On:03/21/2030



**MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY
WATER RESOURCES DIVISION
PERMIT**

Issued To:

**Brent Dankert
Tuscola County Road Commission
1733 Mertz Road
Caro, Michigan 48723**

Permit No: WRP044532 v.1
Submission No.: HQ4-HA18-FFS6W
Site Name: 79 - Tin Bill Road at Keene Stewart Drain
Issued: March 21, 2025
Revised:
Expires: March 21, 2030

This permit is being issued by the Michigan Department of Environment, Great Lakes, and Energy (EGLE), Water Resources Division, under the provisions of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA); specifically:

- | | |
|---|---|
| <input checked="" type="checkbox"/> Part 301, Inland Lakes and Streams | <input type="checkbox"/> Part 323, Shorelands Protection and Management |
| <input type="checkbox"/> Part 303, Wetlands Protection | <input type="checkbox"/> Part 325, Great Lakes Submerged Lands |
| <input type="checkbox"/> Part 315, Dam Safety | <input type="checkbox"/> Part 353, Sand Dunes Protection and Management |
| <input checked="" type="checkbox"/> Part 31, Water Resources Protection (Floodplain Regulatory Authority) | |

EGLE certifies that the activities authorized under this permit are in compliance with the State Coastal Zone Management Program and certifies without conditions under the Federal Clean Water Act, Section 401 that the discharge from the activities authorized under this permit will comply with Michigan's water quality requirements in Part 31, Water Resources Protection, of the NREPA and associated administrative rules, where applicable.

Permission is hereby granted, based on permittee assurance of adherence to State of Michigan requirements and permit conditions, to:

Authorized Activity:

Remove the existing crossing of Tin Bill Road over Keene Stewart Drain and replace it with a 12.5-foot span by 8-foot tall by 60-foot-long concrete box culvert with wingwalls. The replacement structure will be buried 2 feet below the stream bottom. Below the Ordinary High-Water Mark (OHWM), dredge 151 cubic yards and fill 62 cubic yards. Within the 100-year floodplain, excavate 511 cubic yards and fill 404 cubic yards.

Waterbody Affected: Keene Stewart Drain
Property Location: Tuscola County, Wells Township, T12N, R10E, Section 05.

**EGLE
WRP044532 v1.0
Approved
Issued On:03/21/2025
Expires On:03/21/2030**

Authority granted by this permit is subject to the following limitations:

- A. Initiation of any work on the permitted project confirms the permittee's acceptance and agreement to comply with all terms and conditions of this permit.
- B. The permittee, in exercising the authority granted by this permit, shall not cause unlawful pollution as defined by Part 31 of the NREPA.
- C. This permit shall be kept at the site of the work and available for inspection at all times during the duration of the project or until its date of expiration.
- D. All work shall be completed in accordance with the approved plans and specifications submitted with the application and/or plans and specifications attached to this permit.
- E. No attempt shall be made by the permittee to forbid the full and free use by the public of public waters at or adjacent to the structure or work approved.
- F. It is made a requirement of this permit that the permittee give notice to public utilities in accordance with 2013 PA 174 (Act 174) and comply with each of the requirements of Act 174.
- G. This permit does not convey property rights in either real estate or material, nor does it authorize any injury to private property or invasion of public or private rights, nor does it waive the necessity of seeking federal assent, all local permits, or complying with other state statutes.
- H. This permit does not prejudice or limit the right of a riparian owner or other person to institute proceedings in any circuit court of this state when necessary to protect his rights.
- I. Permittee shall notify EGLE within one week after the completion of the activity authorized by this permit.
- J. This permit shall not be assigned or transferred without the written approval of EGLE.
- K. Failure to comply with conditions of this permit may subject the permittee to revocation of permit and criminal and/or civil action as cited by the specific state act, federal act, and/or rule under which this permit is granted.
- L. All dredged or excavated materials shall be disposed of in an upland site (outside of floodplains, unless exempt under Part 31 of the NREPA, and wetlands).
- M. In issuing this permit, EGLE has relied on the information and data that the permittee has provided in connection with the submitted application for permit. If, subsequent to the issuance of a permit, such information and data prove to be false, incomplete, or inaccurate, EGLE may modify, revoke, or suspend the permit, in whole or in part, in accordance with the new information.
- N. The permittee shall indemnify and hold harmless the State of Michigan and its departments, agencies, officials, employees, agents, and representatives for any and all claims or causes of action arising from acts or omissions of the permittee, or employees, agents, or representative of the permittee, undertaken in connection with this permit. The permittee's obligation to indemnify the State of Michigan applies only if the state: (1) provides the permittee or its designated representative with a written notice of the claim or cause of action within 30 days after it is received by the state, and (2) consents to the permittee's participation in the proceeding on the claim or cause of action. It does not apply to contested case proceedings under the Administrative Procedures Act, 1969 PA 306, as amended, challenging the permit. This permit shall not be construed as an indemnity by the State of Michigan for the benefit of the permittee or any other person.
- O. Noncompliance with these terms and conditions and/or the initiation of other regulated activities not specifically authorized shall be cause for the modification, suspension, or revocation of this permit, in whole or in part. Further, EGLE may initiate criminal and/or civil proceedings as may be deemed necessary to correct project deficiencies, protect natural resource values, and secure compliance with statutes.

- P. If any change or deviation from the permitted activity becomes necessary, the permittee shall request, in writing, a revision of the permitted activity from EGLE. Such revision request shall include complete documentation supporting the modification and revised plans detailing the proposed modification. Proposed modifications must be approved, in writing, by EGLE prior to implementation.
- Q. This permit may be transferred to another person upon written approval of EGLE. The permittee must submit a written request to EGLE to transfer the permit to the new owner. The new owner must also submit a written request to EGLE to accept transfer. The new owner must agree, in writing, to accept all conditions of the permit. A single letter signed by both parties that includes all the above information may be provided to EGLE. EGLE will review the request and, if approved, will provide written notification to the new owner.
- R. Prior to initiating permitted construction, the permittee is required to provide a copy of the permit to the contractor(s) for review. The property owner, contractor(s), and any agent involved in exercising the permit are held responsible to ensure that the project is constructed in accordance with all drawings and specifications. The contractor is required to provide a copy of the permit to all subcontractors doing work authorized by the permit.
- S. Construction must be undertaken and completed during the dry period of the wetland. If the area does not dry out, construction shall be done on equipment mats to prevent compaction of the soil.
- T. Authority granted by this permit does not waive permit requirements under Part 91, Soil Erosion and Sedimentation Control, of the NREPA, or the need to acquire applicable permits from the County Enforcing Agent (CEA).
- U. Authority granted by this permit does not waive permit requirements under the authority of Part 305, Natural Rivers, of the NREPA. A Natural Rivers Zoning Permit may be required for construction, land alteration, streambank stabilization, or vegetation removal along or near a natural river.
- V. The permittee is cautioned that grade changes resulting in increased runoff onto adjacent property are subject to civil damage litigation.
- W. Unless specifically stated in this permit, construction pads, haul roads, temporary structures, or other structural appurtenances to be placed in a wetland or on bottomland of the water body are not authorized and shall not be constructed unless authorized by a separate permit or permit revision granted in accordance with the applicable law.
- X. For projects with potential impacts to fish spawning or migration, no work shall occur within fish spawning or migration timelines (i.e., windows) unless otherwise approved in writing by the Michigan Department of Natural Resources, Fisheries Division.
- Y. Work to be done under authority of this permit is further subject to the following special instructions and specifications:
1. Authority granted by this permit does not waive compliance requirements under Part 91, Soil Erosion and Sedimentation Control, of the NREPA. Any discharge of sediment into waters of the state and/or to adjoining properties or off the road right-of-way is a violation of this permit, Part 91, and Part 31, Water Resources Protection, of the NREPA. Failure to comply with the soil erosion permit, agency procedures and/or the approved soil erosion plan for the site and/or failure to properly install and/or maintain soil erosion and sedimentation control procedures may be a violation of this permit, and is a violation of Part 91, and Part 31, Water Resources Protection, of the NREPA. A violation of these parts subjects the permittee to potential fines and penalties. To locate the Soil Erosion Program Administrator for your county, visit <https://www.michigan.gov/egle/about/organization/water-resources/soil-erosion/sesc-overview> and select "Soil Erosion and Sedimentation Control Agencies".

2. The authority to conduct the activity as authorized by this permit is granted solely under the provisions of the governing act as identified above. This permit does not convey, provide, or otherwise imply approval of any other governing act, ordinance, or regulation, nor does it waive the permittee's obligation to acquire any local, county, state, or federal approval or authorization necessary to conduct the activity.
3. No fill, excess soil, or other material shall be placed in any wetland, floodplain, or surface water area not specifically authorized by this permit, its plans, and specifications.
4. This permit does not authorize or sanction work that has been completed in violation of applicable federal, state, or local statutes.
5. The permit placard shall be kept posted at the work site in a prominent location at all times for the duration of the project or until permit expiration.
6. This permit is being issued for the maximum time allowed and no extensions of this permit will be granted. Initiation of the construction work authorized by this permit indicates the permittee's acceptance of this condition. The permit, when signed by EGLE, will be for a five-year period beginning on the date of issuance. If the project is not completed by the expiration date, a new permit must be sought.
7. The permittee is responsible for acquiring all necessary easements or rights-of-way before commencing any work authorized by this permit. All construction operations relating to, or part of this project shall be confined to the existing right-of-way limits or other acquired easements.
8. Temporary soil erosion and sedimentation control measures shall be installed before or upon commencement of the earth change and shall be maintained daily. Temporary soil erosion and sedimentation control measures shall be maintained until permanent soil erosion and sedimentation control measures are in place and the area is stabilized. Upon project completion, any accumulated materials shall be removed and disposed of at an upland site, the soil erosion and sedimentation control measures shall then be removed in their entirety and the area restored to its original configuration and cover. Permanent soil erosion and sedimentation control measures for all slopes, channels, ditches, or any disturbed area shall be installed within five (5) calendar days after final grading, or the final earth change has been completed.
9. Prior to the removal of the existing structures located in the water, cofferdams of interlocking steel sheet piling, or other acceptable barriers approved in advance by the Engineer shall be installed to isolate all construction activities from the stream. The cofferdam shall be maintained in good working order throughout the duration of the project. Any accumulated sediment shall be removed and disposed of at an upland location. Normal water flow shall be reestablished if work is stopped for any length of time other than what may be encountered in a normal work week.
10. The crest of the barrier shall be placed at an elevation that will not cause upstream flooding in the event of high flow conditions. It shall be less than two feet above the OHWM, or for barriers that require an elevation greater than two feet above the OHWM, the maximum barrier width must be less than 1/3 of the stream width.
11. All cofferdam and temporary steel sheet pile that blocks no more than 1/3 of the stream flow shall then be removed in its entirety immediately after use has been discontinued or within 90 days of initiation of the authorized activity, whichever is shorter. If the temporary structure blocks more than 1/3 of the stream flow it must be removed immediately after use has been discontinued or within 14 days of initial installation, whichever is shorter.

12. For cofferdams that block more than 1/3 of the water flow, a pump system is required to pump water around the construction activity. Water shall be discharged into the watercourse with appropriate treatments to remove suspended particles and to dissipate energy. An extra pump shall be kept on site in the event of failure.
13. All cofferdam and temporary steel sheet piling shall be removed immediately, and flow returned to normal after use has been discontinued. All barriers shall be removed in their entirety, unless specifically shown to be left in place on the plans. Cofferdam and sheet pile that are to remain shall be cut off at the elevation shown on the plan. Cofferdam and sheet pile left above the stream bottom must be approved by EGLE. Areas where the sheet piling is cut off shall be covered with riprap as shown in the plans or backfilled with other acceptable material approved in advance by the Engineer and EGLE. Projects where the cofferdam is cut off less than one foot below the stream bottom must be submitted for individual review before any revision to current permit conditions will be allowed.
14. All raw areas in uplands resulting from the permitted construction activity shall be effectively stabilized with sod and/or seed and mulch (or other technology specified by this permit or project plans) in a sufficient quantity and manner to prevent erosion and any potential siltation to surface waters or wetlands. Temporary stabilization measures shall be installed before or upon commencement of the permitted activity and shall be maintained until permanent measures are in place. Permanent measures shall be in place within five (5) days of achieving final grade.
15. All raw earth within 100 feet of a lake, stream, or wetland that is not brought to final stabilization by the end of the active growing season shall be temporarily stabilized with mulch blankets in accordance with the following dates: September 20th for the Upper Peninsula, October 1st for the Lower Peninsula north of US-10, and October 10th for the Lower Peninsula south of US-10.
16. All dredge/excavated spoils including organic and inorganic soils, vegetation, and other material removed shall be placed on upland (non-wetland, non-floodplain or non-bottomland), prepared for stabilization, revegetated and reseeded with native Michigan species appropriate to the site, and mulched in such a manner so as to prevent and ensure against erosion of any material into any waterbody, wetland, or floodplain.
17. All fill/backfill shall consist of clean inert material that will not cause siltation nor contain soluble chemicals, organic matter, pollutants, or contaminants. All fill shall be contained in such a manner so as not to erode into any surface water, floodplain, or wetland.
18. During removal of the existing structure, every precaution shall be taken to prevent debris from entering any watercourse. Any debris reaching a watercourse during the removal and/or reconstruction of the structure shall be immediately retrieved from the water. All material shall be disposed of in an acceptable manner consistent with local, state, and federal regulations.
19. The existing structure shall be kept open to pass the stream flow during removal of the existing road fill.
20. The placement of the new culvert and the initial placement of fill in the stream shall be done immediately after removal of the existing culvert. The placement shall be conducted in such a manner that all flow is immediately passed through the new culverts, allowing the major placement of fill to be done in the dry or in still water where erosion and siltation will be minimized. The fill material used in this initial placement shall be washed gravel, coarse aggregate, or rock and shall be placed at both ends of the culvert to a level above normal water level before backfill material is placed.

21. The culvert shall be installed to align with the center line of the existing stream at both the inlet and outlet ends and must be buried below the stream bed to provide a natural channel substrate through the structure as shown on the approved plans.
22. Road fill side slopes shall not be steeper than 1-on-2 (1 vertical to 2 horizontal) except where headwalls of reinforced concrete, mortar masonry, dry masonry, or other acceptable methods are used.
23. Road fill side slopes terminating in the stream and any raw streambanks resulting from the construction shall be stabilized with temporary measures in accordance with appropriate Best Management Practices based on site conditions, and if necessary, may be riprapped extending above the OHWM, before or upon commencement of the permitted activity. Temporary stabilization measures shall be maintained until permanent measures are in place.
24. All other road fill slopes, ditches, and other raw areas draining directly to the watercourse may be protected with riprap, sod and/or seed and mulch as may be necessary to provide effective erosion protection.
25. The placement of riprap shall be limited to the minimum necessary to ensure proper stabilization in the immediate vicinity of the structure. All riprap shall be properly sized and graded based on wave action and velocity and shall consist of clean natural field stone or rock (free of paint, soil or other fines, asphalt, soluble chemicals, or organic material). Areas to be protected by riprap shall be cleared of brush and debris, and all grades shall be shaped and compacted to the required cross section. Rock riprap shall be placed such that it does not narrow up the stream or interfere with stream flows into and out of the structure. Geotextile liner shall be placed on the prepared grades prior to placing riprap and shall not be damaged by riprap placement. No permanent riprap placement below the OHWM is granted by this permit.
26. If the project, or any portion of the project, is stopped and lies incomplete for any length of time (other than that encountered in a normal work week) every precaution shall be taken to protect the incomplete work from erosion, including the placement of temporary gravel bag riprap, temporary seeding and mulching, or other acceptable temporary protection.
27. No work shall be done in the stream during periods of above-normal flows except as necessary to prevent erosion.
28. No work or dredging within the water authorized by this permit is allowed from March 1st to June 30th due to critical spawning and migration periods.

Issued By: 
Rachel Matejewski
Transportation Review Unit
Water Resources Division
517-331-2913

THIS PERMIT MUST BE SIGNED BY THE PERMITTEE TO BE VALID.

I hereby assure that I have read, am familiar with, and agree to adhere to the terms and conditions of this permit.

Permittee Signature

Date

cc: Patrick Phelan, BMJ Engineers & Surveyors
Joseph Robison, MDNR, Wildlife Division
Jason Gostiaux, MDNR, Fisheries Division
Wells Township Clerk
Tuscola County Drain Commissioner
Tuscola County CEA
Tuscola CRC APA

32

GILFORD RD.

WELLS TWP.

KEENE STEWART DR.

MURRAY RD.

SITE LOCATION

TIN BILL RD.

5

MONA RD.

MUSHROOM RD.

CRAW DR.



DRAINAGE AREA:
5 SQ. MI.

FOR:
TUSCOLA COUNTY
ROAD COMMISSION



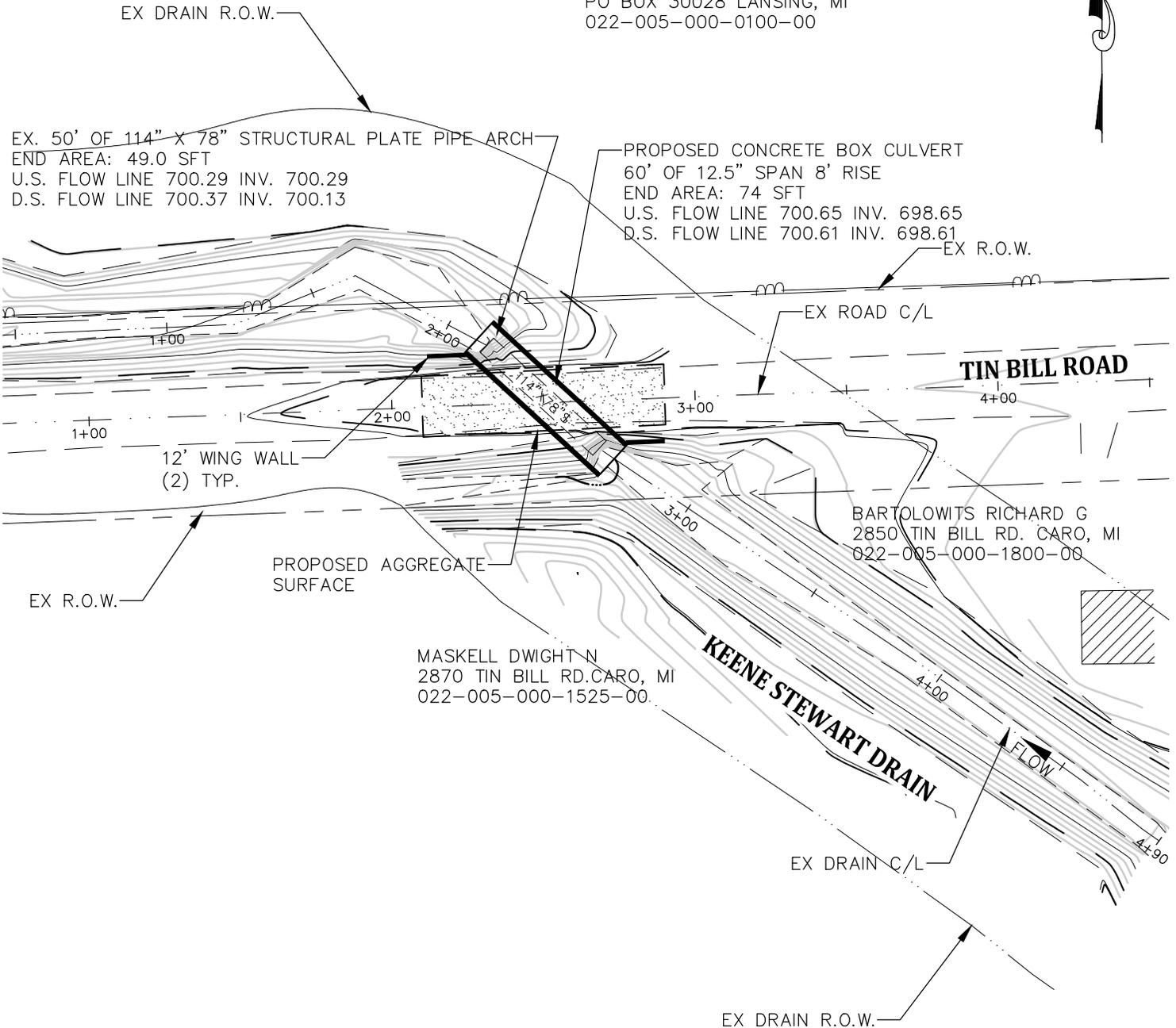

TITLE: Keene Stewart Drain at Tin Bill Road BMJ Project NO. 2308.09	
DRAWN BY: EW	DATE: 10-07-24
CHECKED BY: PRP	PAGE: 1 OF: 7

LOCATION: Tin Bill Road 1000' WEST OF MURRAY RD. Wells Township, Section 5, T12N, R10E, Tuscola County, Michigan	
APPROVED: PRP	SCALE: 1" = 1320'

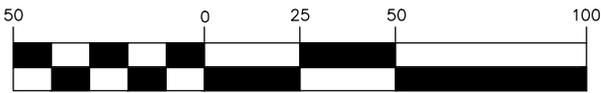
EGLE
WRP044532 v1.0
Approved
Issued On: 03/21/2025
Expires On: 03/21/2030

BENCHMARK:
 ATOP SET LAG IN E. FACE UT. POLE
 ± 33' N. OF C TIN BILL ROAD
 ± 50' W. OF C DRAIN.
 ± 150' W. OF C CULVERT
 ELEVATION: 708.91

DEPT OF NATURAL RESOURCES
 PO BOX 30028 LANSING, MI
 022-005-000-0100-00



GRAPHIC SCALE



(IN FEET)
 1 inch = 50 ft.

FOR:
TUSCOLA COUNTY ROAD COMMISSION

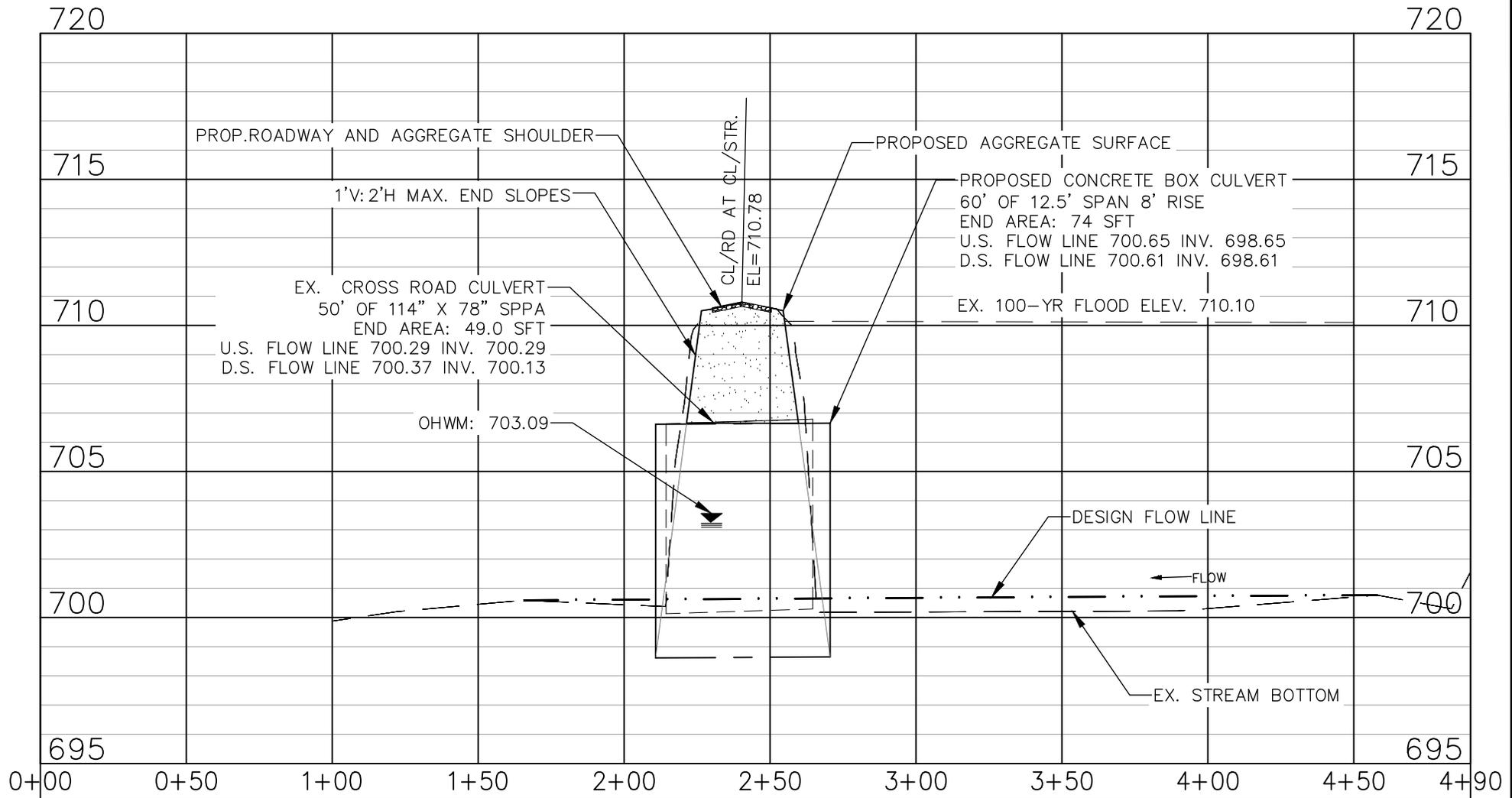


TITLE: Keene Stewart Drain at Tin Bill Road BMJ Project NO. 2308.09	
DRAWN BY: EW	DATE: 10-07-24
CHECKED BY: PRP	PAGE: 2 OF: 7

LOCATION: Tin Bill Road 1000' WEST OF MURRAY RD. Wells Township, Section 5, T12N, R10E, Tuscola County, Michigan	
APPROVED: PRP	SCALE: 1" = 50'

EGLE
 WRP044532 v1.0
 Approved
 Issued On: 03/21/2025
 Expires On: 03/21/2030

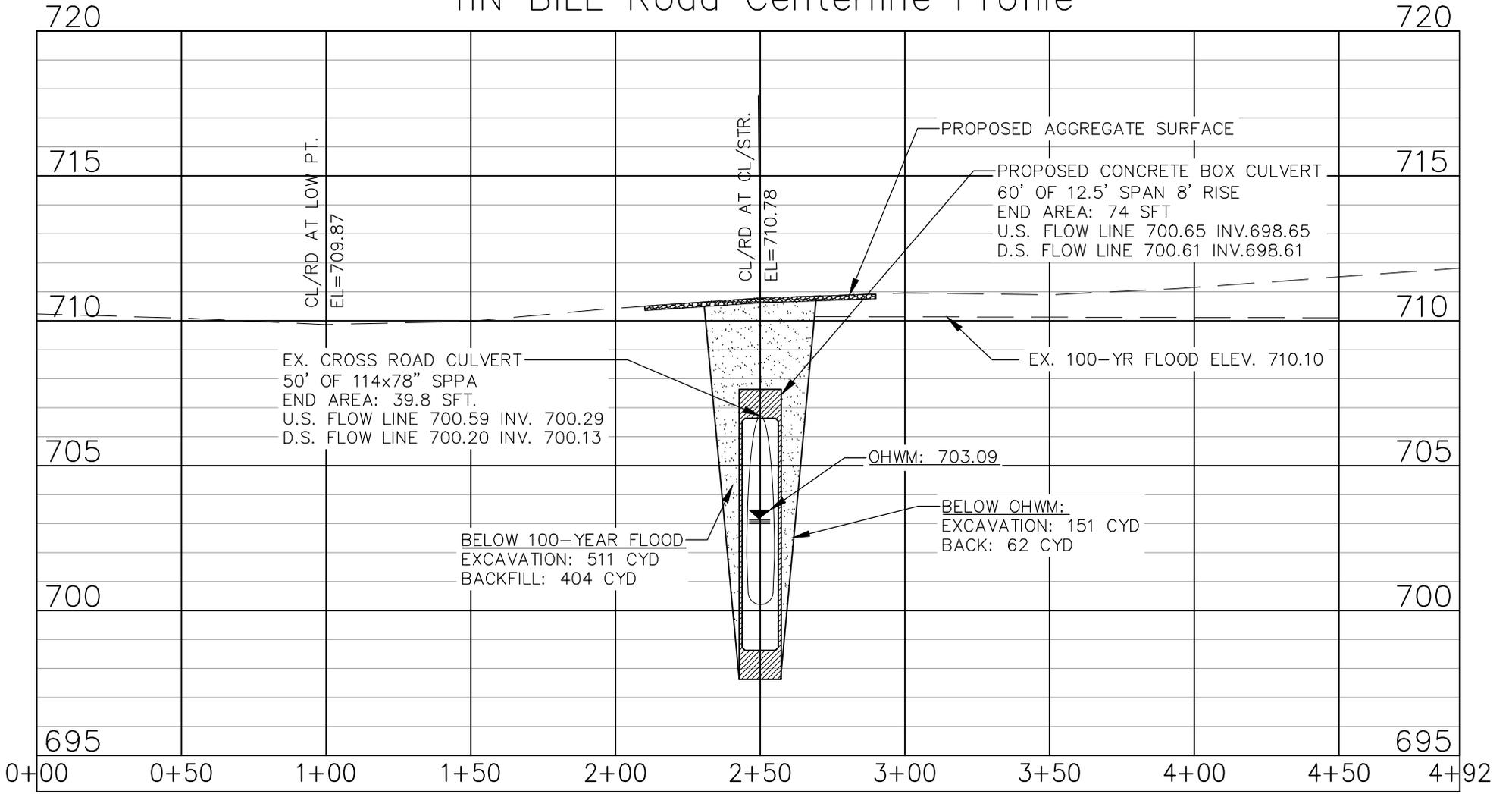
Keene Stewart Drain At Tin Bill Road Stream Flow Line Profile



<p>FOR:</p> <p>TUSCOLA COUNTY ROAD COMMISSION</p>		<p>TITLE: Keene Stewart Drain at Tin Bill Road BMJ Project NO. 2308.09</p>		<p>LOCATION: Tin Bill Road 1000' WEST OF MURRAY RD. Wells Township, Section 5, T12N, R10E, Tuscola County, Michigan</p>	
		<p>DRAWN BY: EW</p>	<p>DATE: 10-07-24</p>		
		<p>CHECKED BY: PRP</p>	<p>PAGE: 3 OF: 7</p>	<p>APPROVED: PRP</p>	<p>SCALE: 1" = 50'H</p>

EGLE
WRP 032 v1.0
Approved
Issued On: 03/21/2025
Expires On: 03/21/2030

TIN BILL Road Centerline Profile

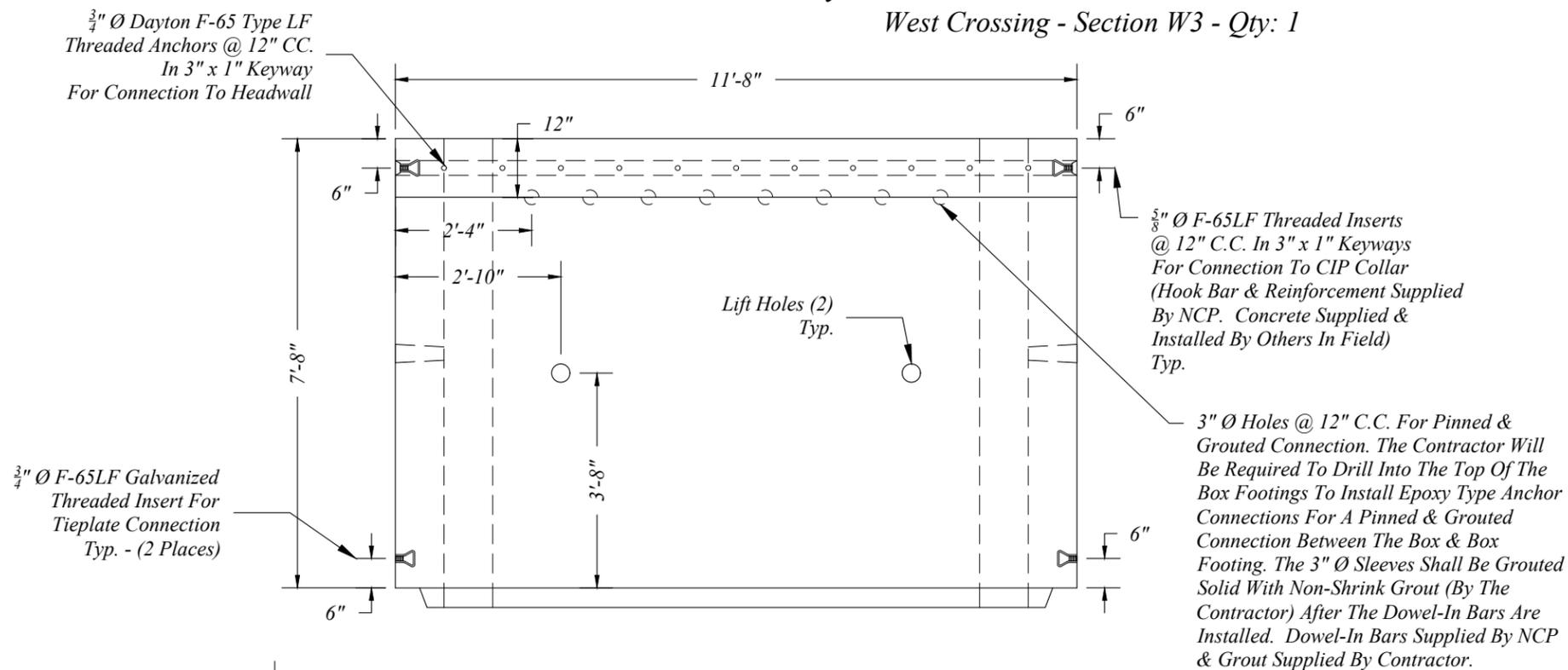


<p>FOR:</p> <p>TUSCOLA COUNTY ROAD COMMISSION</p> 		<p>TITLE: Keene Stewart Drain at Tin Bill Road BMJ Project NO. 2308.09</p>		<p>LOCATION: Tin Bill Road 1000' WEST OF MURRAY RD. Wells Township, Section 5, T12N, R10E, Tuscola County, Michigan</p>	
		<p>DRAWN BY: EW</p>	<p>DATE: 10-07-24</p>	<p>CHECKED BY: PRP</p>	<p>PAGE: 4 OF: 7</p>

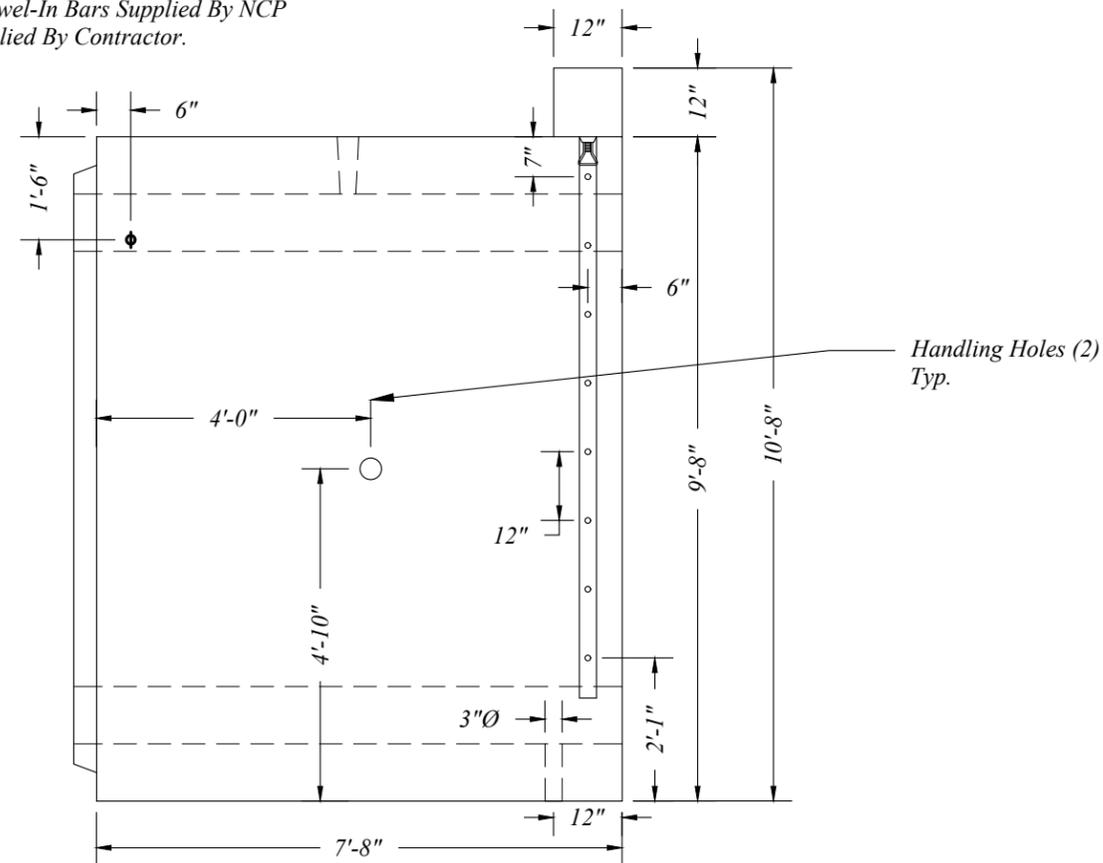
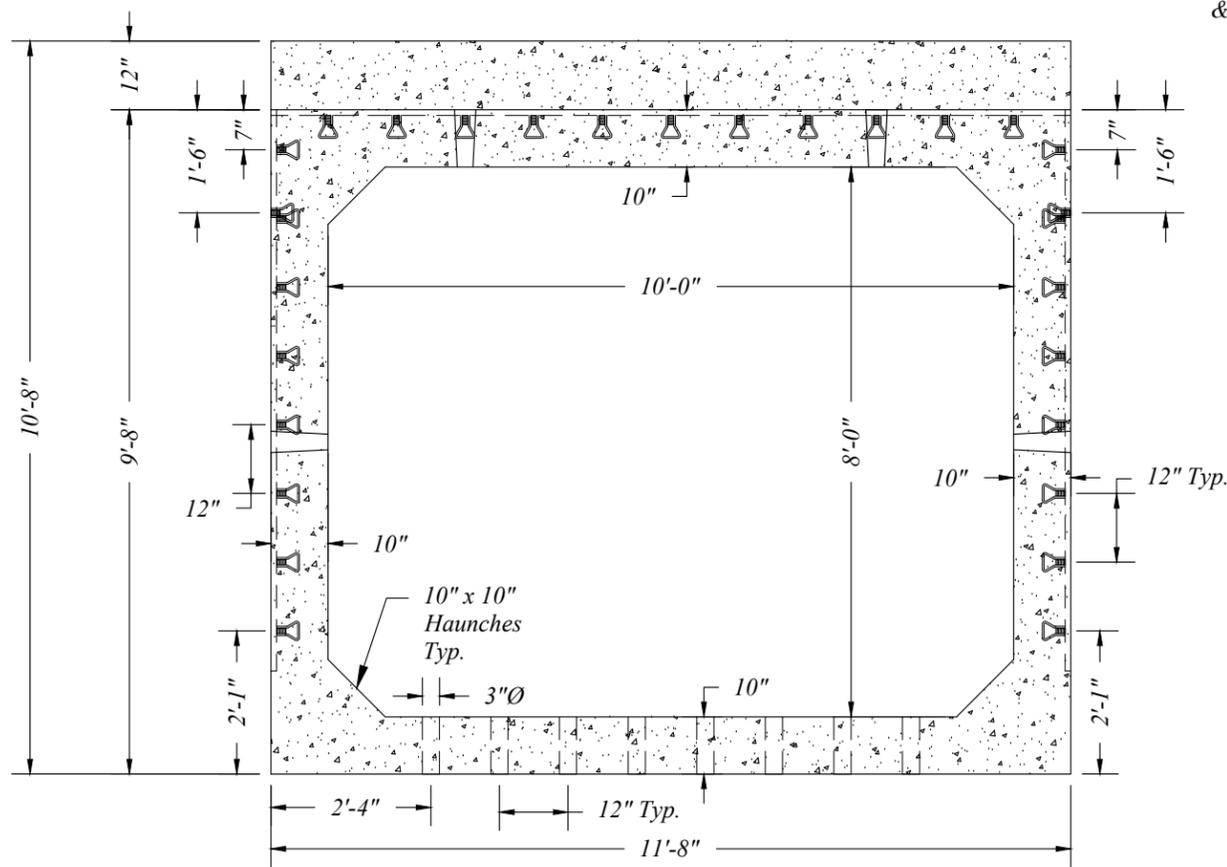
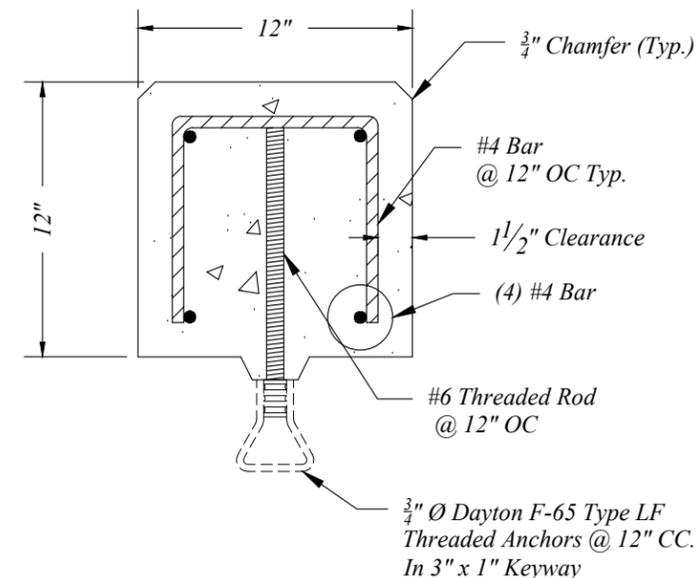
EGLE
 WRP 2023 v1.0
 Approved
 Issued On: 03/21/2025
 Expires On: 03/21/2030

Dutcher & Merry Road - 10' x 8' Precast Concrete Box Culvert

West Crossing - Section W3 - Qty: 1



Notes: Headwall Will Weigh Approximately 1,750 Lbs.



Notes:

1. Section Will Weigh Approximately 41,075 Lbs.
2. Contractor to seal lift holes w/concrete plugs & apply approved mastic over the plugged holes as directed by the engineer before backfilling.
3. Contractor to seal handling holes by applying approved mastic around the holes and then applying 2 layers of mirafi filter fabric as directed by the engineer before backfilling.

Proposed - 10' x 8' Precast Concrete Box Culvert