



**Eaton County  
Road  
Commission**

April 20, 2022

Benjamin S. Lyons  
**Chair**

**NOTICE TO BIDDERS**

Timothy J. Lamoreaux  
**Vice Chair**

Lauren K. Aitch-Guerrant  
**Member**

Duane A. Eldred  
**Member**

Jerry L. Frazier  
**Member**

Blair E. Ballou, P.E.  
**Engineer-Manager**

Patricia M. Loosemore  
**Director of Finance**

Sealed proposals will be received by the Board of County Road Commissioners of the County of Eaton, Michigan at 1112 Reynolds Road, Charlotte, MI 48813, until 10:00 AM, Monday, May 23, 2022 at which time and place proposals will be publicly opened and read aloud for furnishing and delivering the following:

**INSTALL A 64-FEET LONG 16.5-FEET x 6.7-FEET CORRUGATED ALUMINUM MULTI-PLATE BOX CULVERT AT THE BUTTERFIELD HIGHWAY CROSSING OF THE BIG CREEK DRAIN BETWEEN SECTIONS 25 AND 36 IN WALTON TOWNSHIP, EATON COUNTY, MICHIGAN**

The bid shall consist of installing the culvert materials supplied by the Eaton County Road Commission in accordance with the proposal and the Michigan Department of Transportation 2020 Standard Specifications for Construction.

Specifications and further information may be obtained on the Eaton County Road Commission Website <http://eatoncountyroad.com/Doing-Business-With-Us/Bid-Information>, or by Telephone (517) 543-1630 or (877) 883-2866.

1112 Reynolds Road  
Charlotte, MI 48813

All proposals must be submitted in sealed envelopes bearing the name of the bidder and clearly marked with a notation indicating the service or material for which the bid is submitted.

Telephone  
517-543-1630  
Toll-Free  
877-883-2866

The Board reserves the right to accept or reject any or all bids, to waive irregularities in any proposal, and to make the award in any manner deemed in the best interest of the County of Eaton.

Fax  
517-543-2608

**BOARD OF COUNTY ROAD COMMISSIONERS  
OF THE COUNTY OF EATON, MICHIGAN**

Email  
[ecrc@eatoncountyroad.com](mailto:ecrc@eatoncountyroad.com)

Duane A. Eldred, Chair  
Timothy J. Lamoreaux, Vice Chair  
Jerry L. Frazier, Member  
Lauren K. Aitch-Guerrant, Member  
Benjamin S. Lyons, Member

**EATON COUNTY ROAD COMMISSION  
CHARLOTTE, MICHIGAN**

**PROPOSAL FOR  
BUTTERFIELD HIGHWAY CULVERT INSTALLATION**

**To: Board of Eaton County Road Commissioners  
1112 Reynolds Road  
Charlotte, Michigan 48813**

**The undersigned has examined the Plans, Specifications, and the Location of the work described herein and is fully informed as to the nature of the work and the conditions relating to its performance and understands that the quantities shown are approximate only and are subject to either Increase or Decrease.**

**The undersigned hereby proposes to furnish all necessary equipment, tools, apparatus, and other means of construction; do all the work and furnish all the materials; and, for the lump sum price named in the bid, complete the work herein described, in strict accordance with the plans thereof, and in strict conformity with the requirements of the 2020 Michigan Department of Transportation Standard Specifications for Construction and such other special provisions and supplemental specifications included as part of this proposal.**

**The undersigned further proposes to do such extra work as may be authorized by the Eaton County Road Commission, prices for which are not included in the itemized bid. Compensation shall be made on the basis agreed upon prior to commencing with extra work.**

**If the undersigned is the successful bidder and fails to enter into a contract and furnish satisfactory bonds to the Eaton County Road Commission within 15 days after being furnished with the necessary contract and bond forms, the road commission will award the project to the next low bidder.**

**Company Name** \_\_\_\_\_

**Address** \_\_\_\_\_

**Phone #** \_\_\_\_\_

**Fax #** \_\_\_\_\_

**Signed by** \_\_\_\_\_

**Date** \_\_\_\_\_

EATON COUNTY ROAD COMMISSION  
SPECIFICATIONS FOR  
**BUTTERFIELD HIGHWAY CULVERT INSTALLATION**

MMH

1 of 2

04/20/22

The Eaton County Road Commission (ECRC) is requesting a lump sum price to assemble and install an aluminum multi-plate box culvert supplied by the ECRC.

Location

Butterfield Highway – Asphalt surfaced road, culvert location is about 3,800 feet west of Cochran Road, Walton Township, Eaton County, Michigan (see location map).

Description

Culvert installation shall follow the manufacturer's instructions, the 2020 MDOT Standard Specifications for Construction, and as specified herein. Where conflicts in specifications exist, these specifications proposal will govern.

Remove and dispose of existing structure. Install a 64-foot long 16.5-foot span x 6.67-foot rise corrugated metal multi-plate box culvert. The culvert ends include corrugated metal headwalls and wingwalls. Culvert materials will be supplied to the jobsite by the Eaton County Road Commission (ECRC). The contractor is responsible for unloading the culvert materials from the delivery truck. The delivery and unloading shall be coordinated with the material supplier.

The installation work includes excavation, water control, placing non-woven geotextile fabric, placing culvert bedding, placing the culvert, installing the headwalls and wingwalls, backfilling, compacting, placing aggregate base, placing asphalt to match the existing road surface, installing riprap, slope restoration, and erosion control in accordance with the EGLE permit.

The cost of the culvert materials is \$73,856.00. The assembled culvert weighs approximately 13,000 lbs.

General Notes

Culvert shall be placed on a minimum of 12 inch open graded crushed stone bedding. Bedding material shall be crushed with a maximum size 1 inch. Crushed concrete will not be permitted.

Prior to placing the bedding, non-woven geotextile fabric meeting US Fabrics US 270NWE, or equal, shall be placed on the bottom of the trench. The geotextile fabric shall be laid perpendicular to the culvert centerline, shall extend the entire length of the culvert, and edges of adjacent rolls shall overlap no less than 12 inches. Each roll shall be continuous with no overlap joints along the roll.

The finished asphalt surface width of Butterfield Highway will be 22 feet.

All concrete, rubble, and metals shall be removed and disposed of by the contractor. All excess or unsuitable excavated material shall be removed from the site and disposed of by the contractor.

Backfill material above the bedding shall be new MDOT Class II granular material furnished by the contractor. Backfill material shall be placed and compacted to a minimum 95% maximum density. The

pavement section shall be 8" MDOT 22A or 21AA dense graded aggregate surfaced with no less than 5" of HMA, 13A.

Furnish and install riprap erosion protection as shown on the MDEQ permit. Furnish and install filter fabric under the riprap. **Restore** all other new slopes and disturbed areas outside the roadbed and shoulders using topsoil salvaged by the contractor from the site, seed, fertilizer, and mulch blankets.

The road will be closed to all traffic at the work site during construction. No detour will be designated, and detour signs will not be placed. ECRC will furnish and deliver 4-Type III 4'x8' lighted barricades for the contractors use adjacent to the work site which the contractor shall use, place, move, remove, and maintain in such a manner to control traffic at the job site in accordance with the MMUTCD. The ECRC will also furnish, place, and maintain barricades and road closed-local traffic only signs at the nearest crossroad to the work site in each direction.

Water control will be required. The culvert is within a county drain with continuous flow. Prior to construction, the proposed water control plan must be submitted to the Road Commission for review and approval. No work shall begin until the Road Commission has approved the water control plan.

All work, labor, equipment and materials necessary to complete the work as described shall be included in the Lump Sum bid price to replace the existing structure with a new corrugated metal box culvert.

#### Schedule

Bidders shall submit a proposed schedule for the culvert replacement. Butterfield Highway shall be open no later than August 19, 2022. Butterfield Highway shall be closed for no longer than 4 weeks.

HEISLER, SHIRLEY J  
478 W BUTTERFIELD HWY.  
OLIVET, MI 49076

CASE, JEFFEREY A & SHERRIE D  
478 W BUTTERFIELD HWY.  
OLIVET, MI 49076

INSTALL SUFFICIENT RIPRAP TO  
PROTECT THE RELOCATED DITCH,  
APPROX. 15 SYD

RELOCATE DITCH

33' ROW

EX. DITCH

INSTALL ONLY 4' LONG WING WALL

RIPRAP, 5 SYD

REMOVE EX. DOUBLE BARREL  
WOOD BOX CULVERT

REMOVE AND DISPOSE  
OF EXISTING  
GUARDRAIL

Butterfield Hwy.

POB

POE

22.5'  
EX. PAVT

PROPOSED 64' LONG ALUMINUM BOX  
CULVERT WITH HEADWALLS AND WINGWALLS  
16.5' SPAN, 6.67' RISE

RIPRAP, 5 SYD

EX. DITCH

33' ROW

EX. DITCH

INSTALL SUFFICIENT RIPRAP TO  
PROTECT THE RELOCATED DITCH,  
APPROX. 12 SYD

INSTALL NEW STEEL FENCE POST BEHIND  
HEADWALL AND RECONNECT FENCE

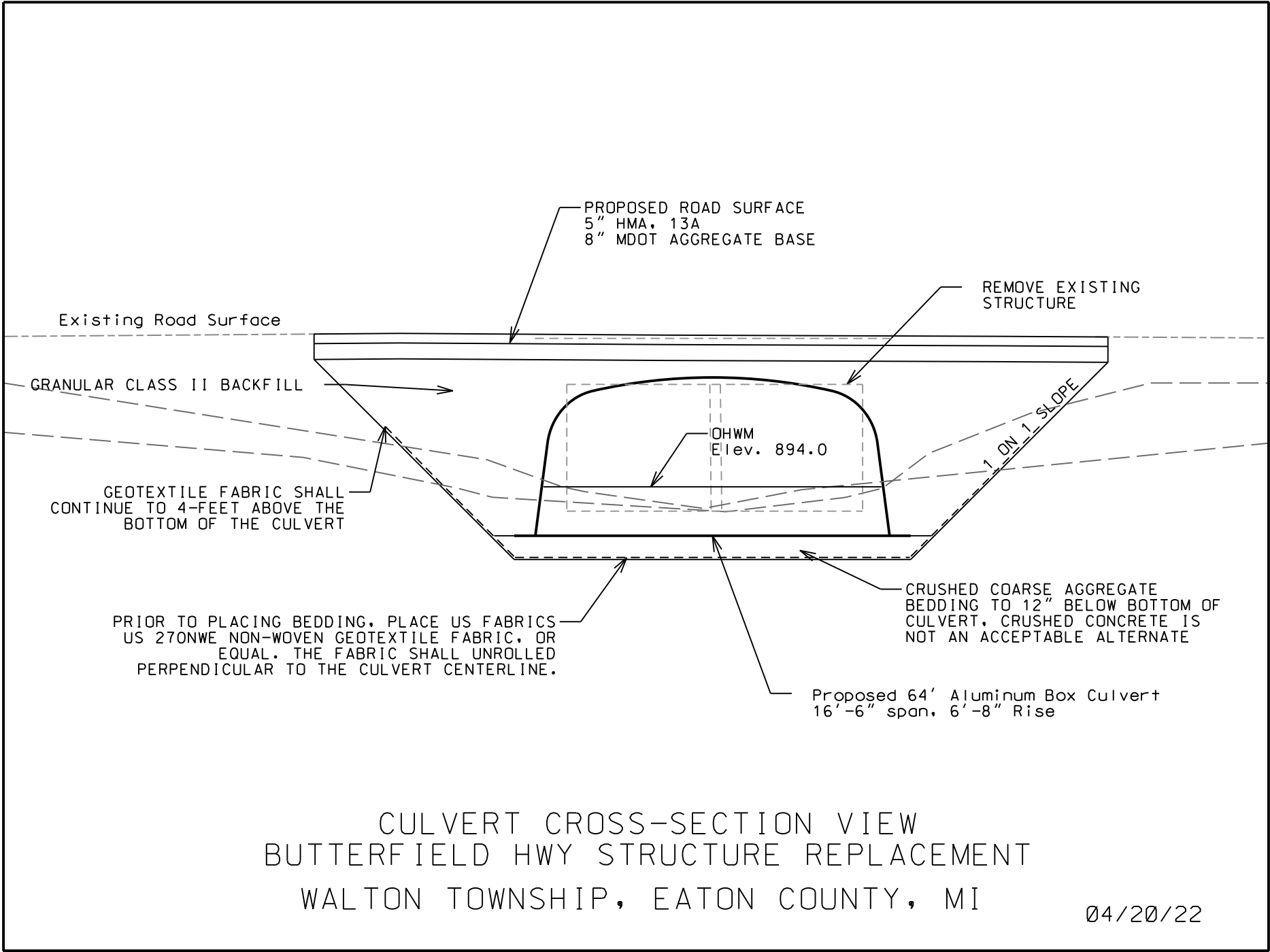
REMOVE 3  
TREES

STRADER, JEFF A/  
DORMAN, AMY E  
575 W BUTTERFIELD HWY.  
OLIVET, MI 49076

STRADER, JAMES M  
575 W BUTTERFIELD HWY.  
OLIVET, MI 49076

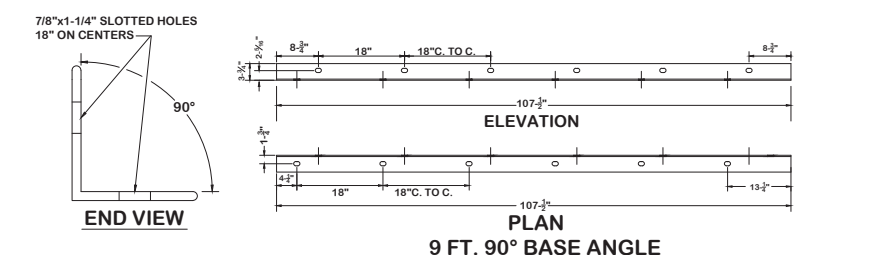
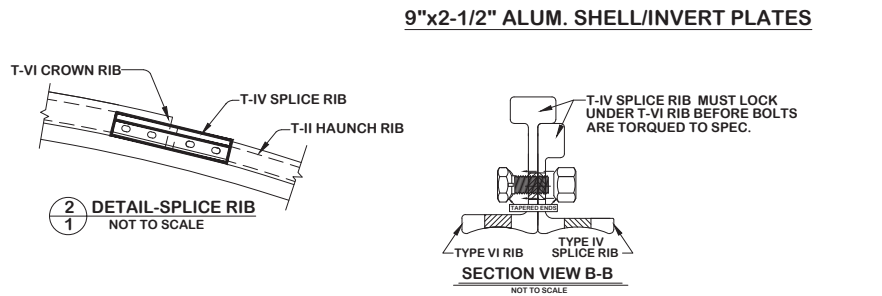
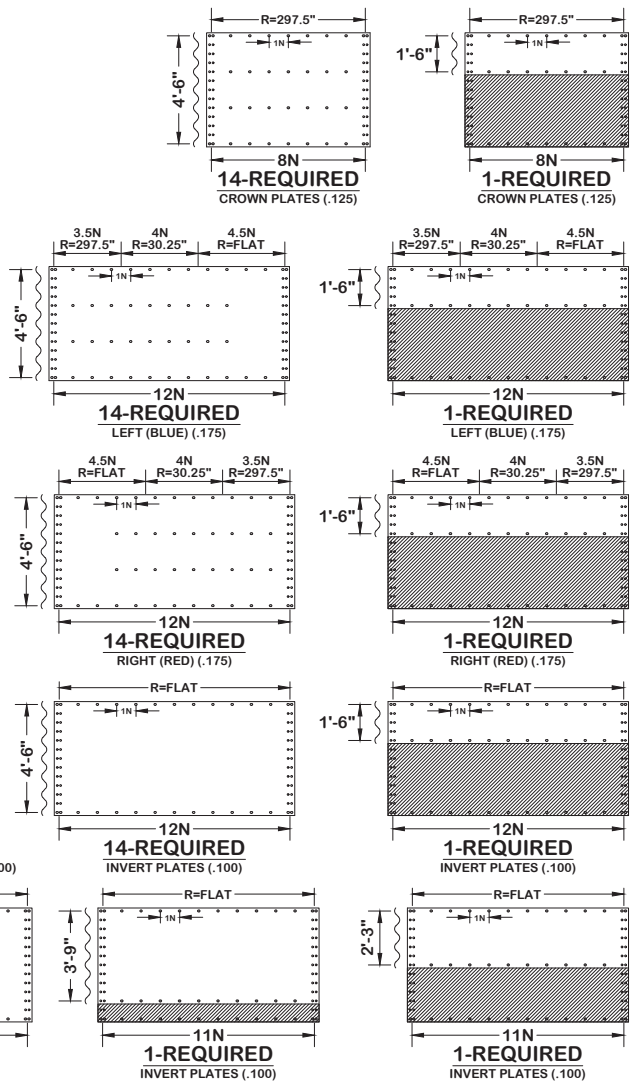
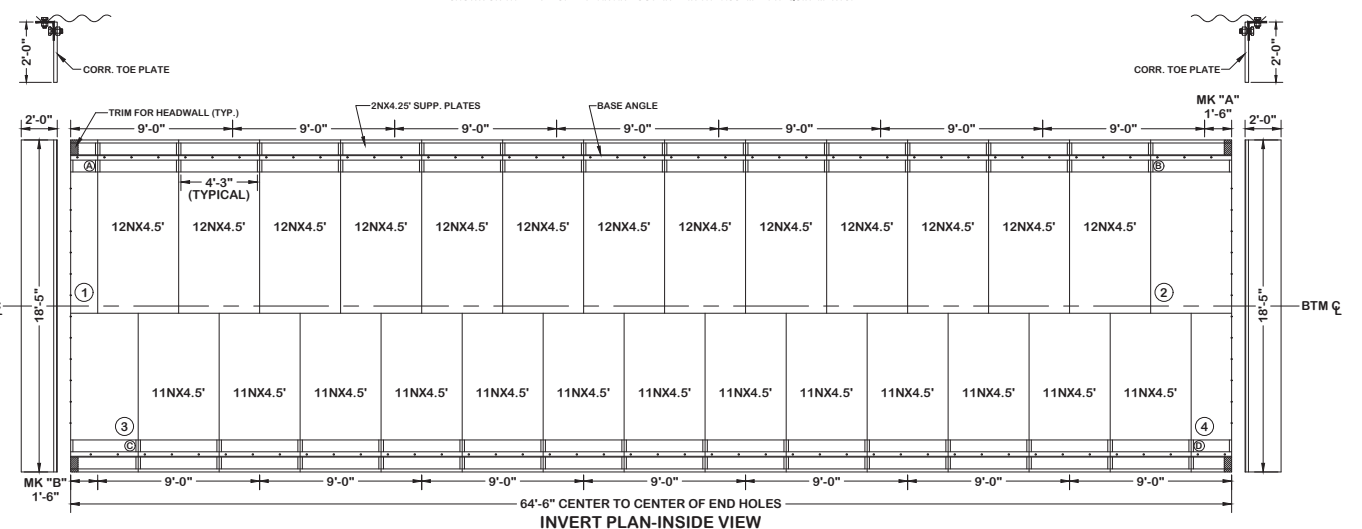
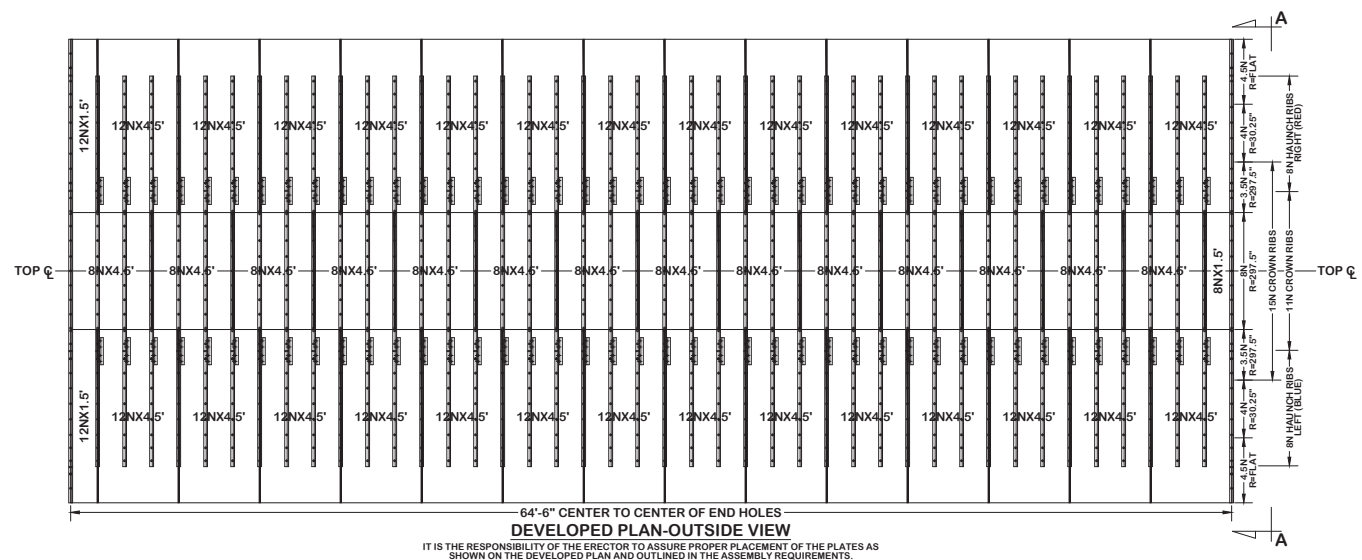
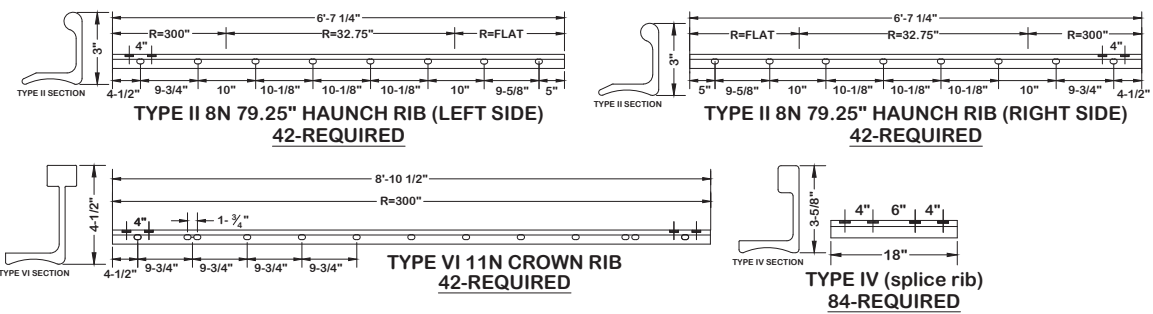
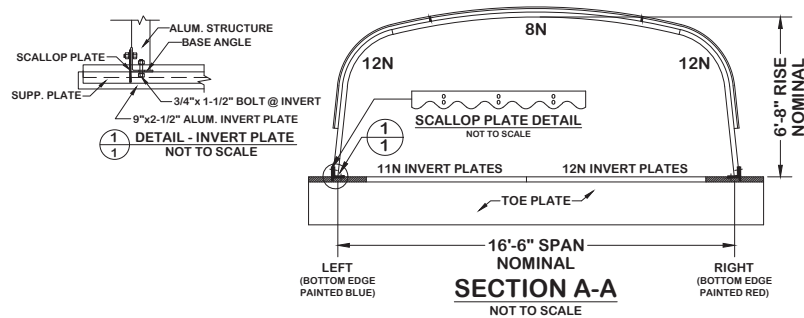
PLAN VIEW  
BUTTERFIELD HWY Structure Replacement  
WALTON Township, Eaton County, MI  
Scale: 1"=20'

04/25/22



**GENERAL NOTES:**

- BOLT HEADS MAY BE PLACED EITHER IN THE VALLEY OR ON THE CREST OF THE CORRUGATION. JOB SITE CONDITIONS MAY REQUIRE SOME HOLES TO BE FIELD DRILLED.
- CORRUGATED METAL CULVERTS ARE FLEXIBLE BY NATURE AND THEREFORE DERIVE STRUCTURAL STABILITY FROM THE STRENGTH AND RELATIVE STIFFNESS OF THE SURROUNDING BACKFILL MATERIAL. IT IS THE RESULTING SOIL-CULVERT INTERACTION SYSTEM THAT DEFINES THE ABILITY OF A FLEXIBLE METAL CULVERT TO WITHSTAND THE DEFINED SERVICE LOADS. FOR THIS REASON SPECIFICATIONS ADDRESSING APPROPRIATE BACKFILL MATERIAL SELECTION AND COMPACTION LEVELS MUST BE INCLUDED IN THE PROJECT DOCUMENTS. IN THE ABSENCE OF SUCH DOCUMENTATION IT IS RECOMMENDED THAT APPLICABLE STANDARDS PUBLISHED FOR FLEXIBLE METAL CULVERTS ARE SECURED FROM ASTM OR AASHTO. IT SHALL BE THE RESPONSIBILITY OF THE OWNER AND/OR ITS AGENTS (PURCHASER, ENGINEER, CONTRACTOR, ET AL.) TO ENSURE PROPER BACKFILL SPECIFICATIONS AND INSTALLATION METHOD. MINIMUM ALLOWABLE SOIL-BEARING PRESSURE IS 4,000 LBS./SQ. FT.
- DRAWINGS CONFORM TO THE ENGINEERING SITE DESIGN (BY OTHERS) WITH NO ASSUMPTIONS AS TO FIT AND CONFORMANCE. LANE HAS NOT PERFORMED SITE ENGINEERING SERVICES ON THIS PROJECT AND NO ATTEMPT HAS BEEN MADE TO VERIFY THE SAME. IT SHALL BE THE RESPONSIBILITY OF THE PROJECT ENGINEER TO REVIEW THIS DRAWING FOR COMPLIANCE WITH ALL APPLICABLE SITE PARAMETERS AND REGULATIONS.



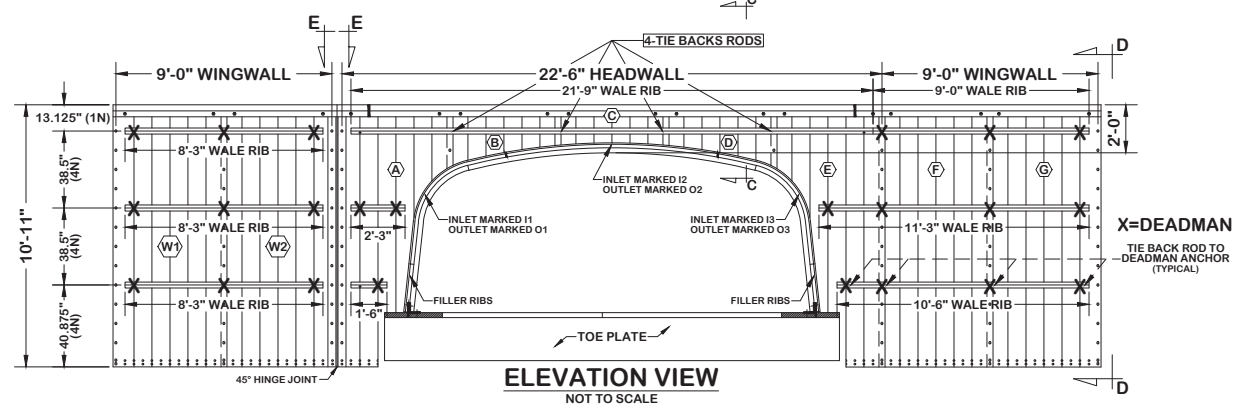
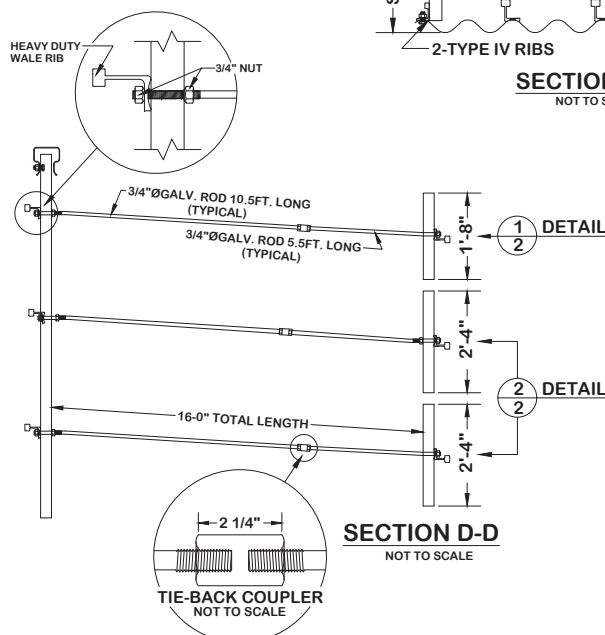
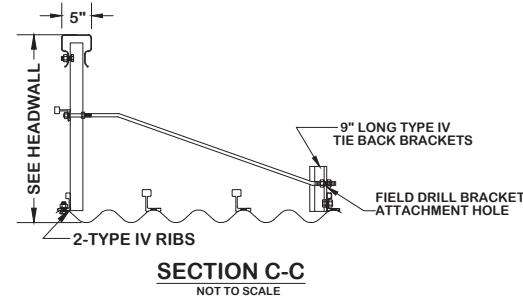
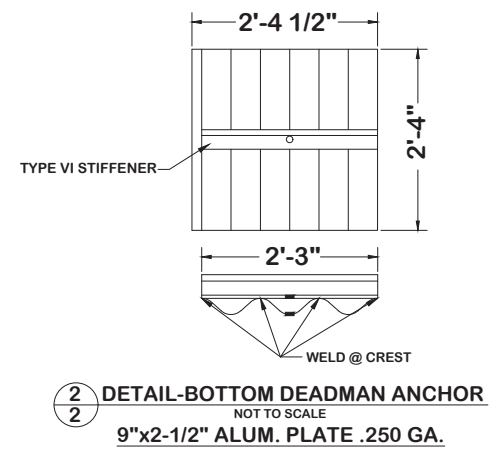
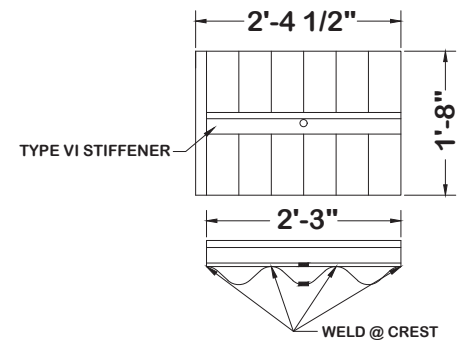
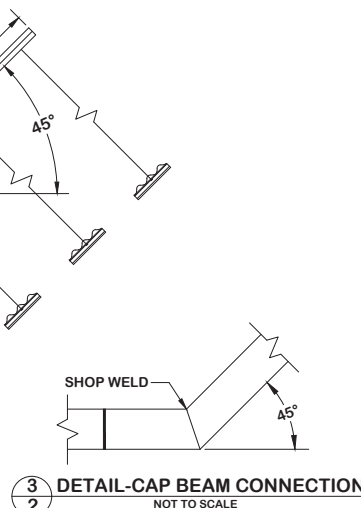
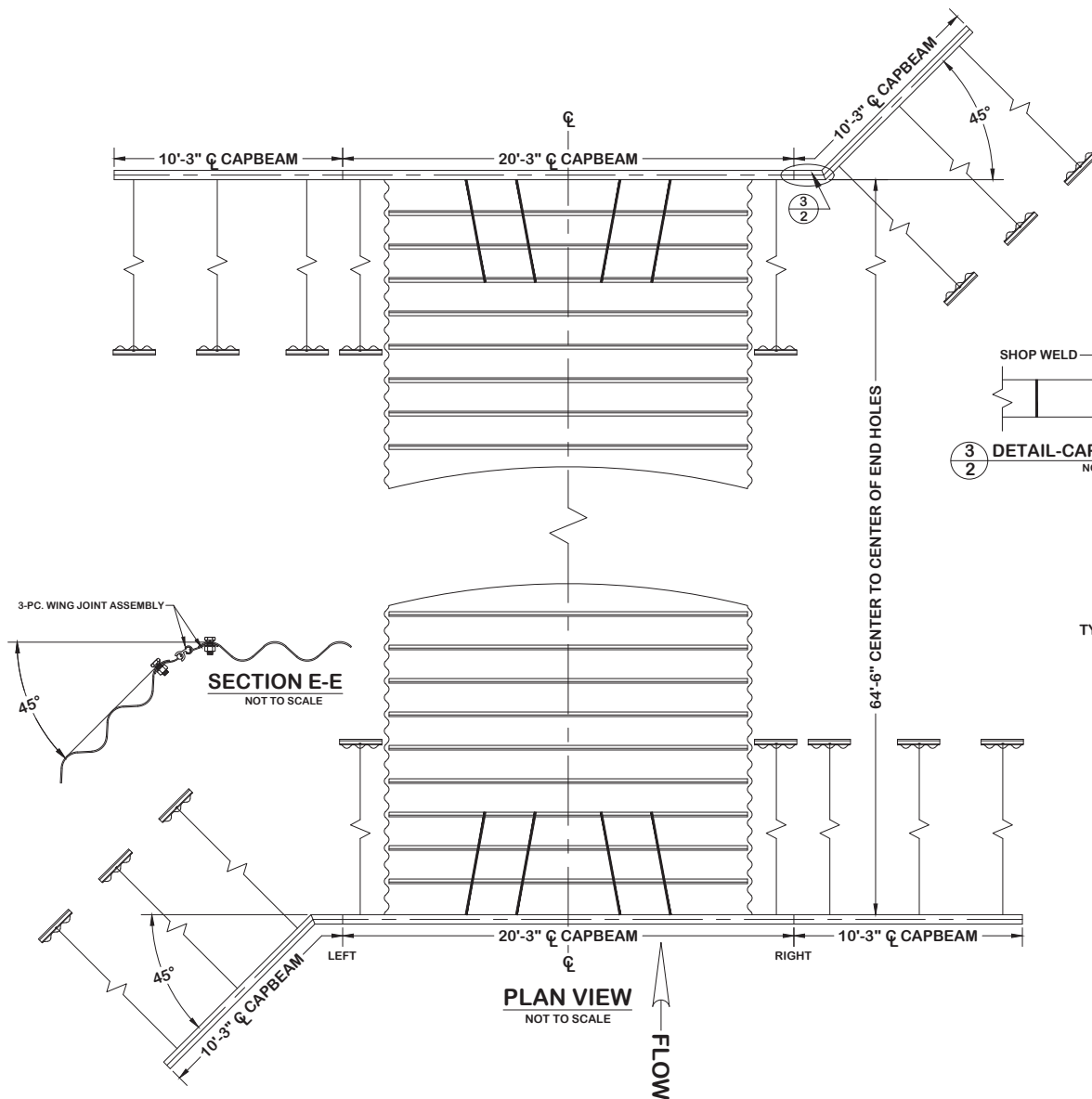
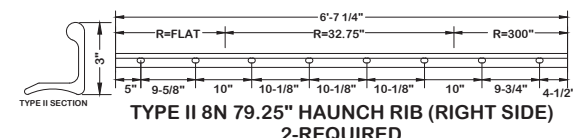
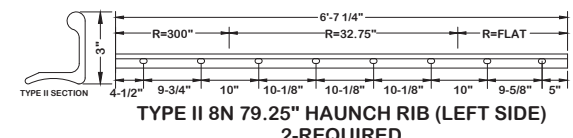
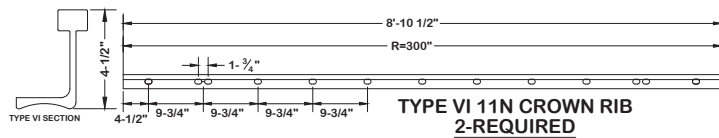
**APPROVED**  
By Mathew Hannahs at 1:57 pm, Mar 04, 2022

Mathew Hannahs  
Mar 4 2022 1:59 PM

SPECIFICATIONS : <b>AASHTO M-219</b>		GAGE .175/.125
APPROX. SHIP. WT. 17,300#		TOP SIDES CORNER .175
CUSTOMER: ST. REGIS CULVERT 202 MORRELL ST. CHARLOTTE, MI 48813		INVERT .100 STRUCTURE BC-A-37
PROJECT: EATON COUNTY, MI BUTTERFIELD HWY STRUCTURE REPLACEMENT 1@64'-6" 16'-6" X 6'-8" ALUM. BOX CULVERT 32N SQUARE ENDS, FULL INVERT, 2-HEADWALLS, 4-WINGWALLS		
DRAWN BY: "TJG"	REVISIONS	
CHECKED BY: BBK	NO.	DATE BY NOTES
APPROVED BY:	1	
DATE: 3-3-2022	2	
DATE: 3/16"=1'-0"		
FOR APPROVAL ONLY SIGNATURE _____ DATE _____ NOT FOR CONSTRUCTION		ORDER NUMBER <b>434293</b> DATE ISSUED: <b>3-3-2022</b>
ONE STRUCTURE SHEET ONE OF TWO		LANE ENTERPRISES, LLC PULASKI, PA

**GENERAL NOTES:**

- BOLT HEADS MAY BE PLACED EITHER IN THE VALLEY OR ON THE CREST OF THE CORRUGATION. JOB SITE CONDITIONS MAY REQUIRE SOME HOLES TO BE FIELD DRILLED.
- CORRUGATED METAL CULVERTS ARE FLEXIBLE BY NATURE AND THEREFORE DERIVE STRUCTURAL STABILITY FROM THE STRENGTH AND RELATIVE STIFFNESS OF THE SURROUNDING BACKFILL MATERIAL. IT IS THE RESULTING SOIL-CULVERT INTERACTION SYSTEM THAT DEFINES THE ABILITY OF A FLEXIBLE METAL CULVERT TO WITHSTAND THE DEFINED SERVICE LOADS. FOR THIS REASON SPECIFICATIONS ADDRESSING APPROPRIATE BACKFILL MATERIAL SELECTION AND COMPACTION LEVELS MUST BE INCLUDED IN THE PROJECT DOCUMENTS. IN THE ABSENCE OF SUCH DOCUMENTATION IT IS RECOMMENDED THAT APPLICABLE STANDARDS PUBLISHED FOR FLEXIBLE METAL CULVERTS ARE SECURED FROM ASTM OR AASHTO. IT SHALL BE THE RESPONSIBILITY OF THE OWNER AND/OR ITS AGENTS (PURCHASER, ENGINEER, CONTRACTOR, ET AL.) TO ENSURE PROPER BACKFILL SPECIFICATIONS AND INSTALLATION METHOD. MINIMUM ALLOWABLE SOIL-BEARING PRESSURE IS 4,000 LBS./SQ. FT.
- DRAWINGS CONFORM TO THE ENGINEERING SITE DESIGN (BY OTHERS) WITH NO ASSUMPTIONS AS TO FIT AND CONFORMANCE. LANE HAS NOT PERFORMED SITE ENGINEERING SERVICES ON THIS PROJECT AND NO ATTEMPT HAS BEEN MADE TO VERIFY THE SAME. IT SHALL BE THE RESPONSIBILITY OF THE PROJECT ENGINEER TO REVIEW THIS DRAWING FOR COMPLIANCE WITH ALL APPLICABLE SITE PARAMETERS AND REGULATIONS.



FOR APPROVAL ONLY  
 SIGNATURE \_\_\_\_\_  
 DATE \_\_\_\_\_  
 NOT FOR CONSTRUCTION  
 ONE STRUCTURE SHEET TWO OF TWO

SPECIFICATIONS : <b>AASHTO M219</b>		APPROX. SHIP. WT. <b>17,300#</b>	
CUSTOMER: <b>ST. REGIS CULVERT 202 MORRELL ST. CHARLOTTE, MI 48813</b>		HEADWALL WINGWALL .150 STRUCTURE BC-A-37	
PROJECT: <b>EATON COUNTY, MI BUTTERFIELD HWY STRUCTURE REPLACEMENT 1@64'-6" 16'-6" X 6'-8" ALUM. BOX CULVERT 32N SQUARE ENDS, FULL INVERT, 2-HEADWALLS, 4-WINGWALLS</b>			
DRAWN BY: <b>"TJG"</b>	REVISIONS		
CHECKED BY: <b>BBK</b>	NO.	DATE	BY
APPROVED BY:	1		
DATE: <b>3-3-2022</b>	2		
SCALE: <b>1/4"=1'-0"</b>			
ORDER NUMBER <b>434293</b>		DATE ISSUED: <b>3-3-2022</b>	
<b>LANE ENTERPRISES, LLC</b> PULASKI, PA			

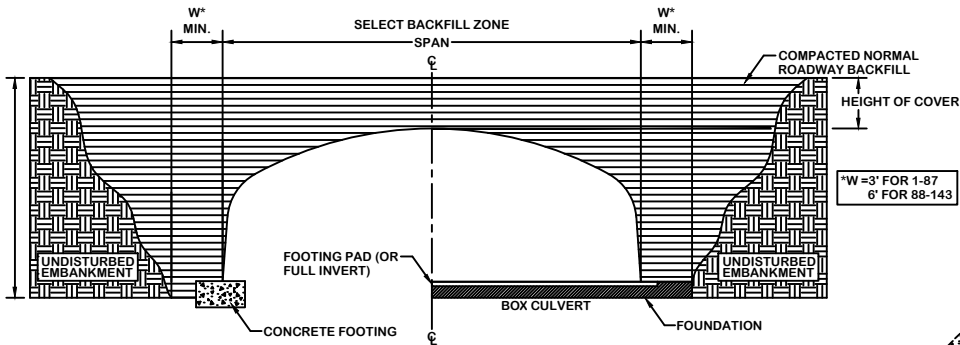


### AASHTO M-145 - TABLE 2 (MODIFIED)

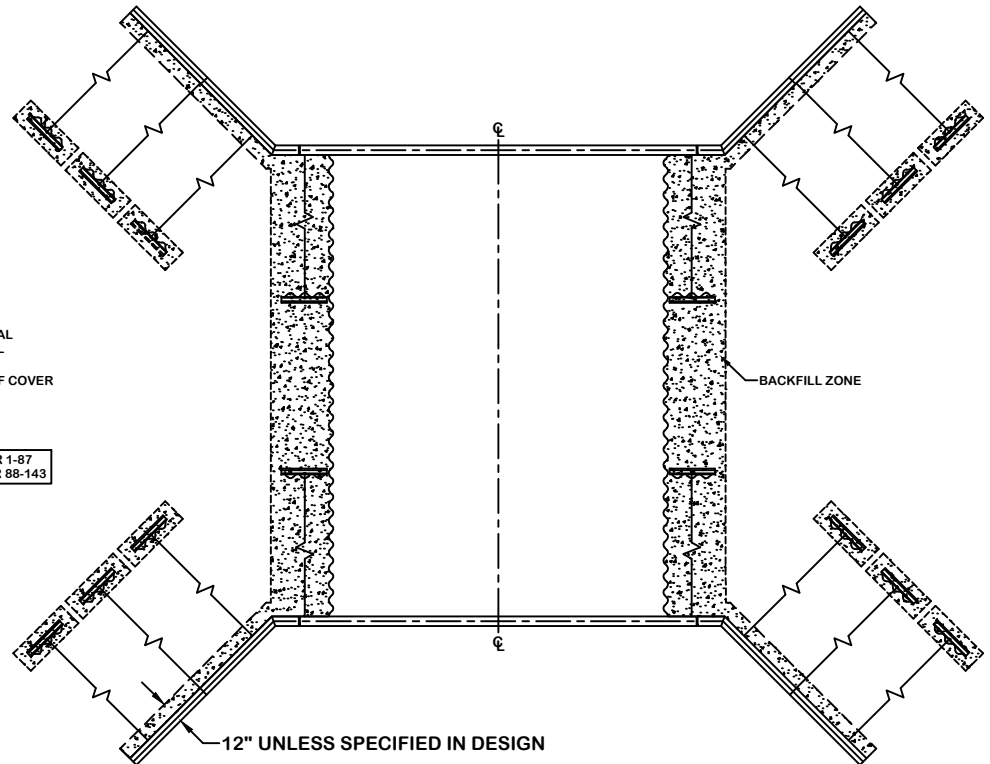
GROUP CLASSIFICATION				
A-1 A-2 (MODIFIED)				
SIEVE ANALYSIS, PERCENT PASSING:	A-1-A	A-1-B	A-2-4	A-2-5
NO. 10 (2.00 MM)	50 MAX	—	—	—
NO. 40 (0.425 MM)	30 MAX	50 MAX	—	—
NO. 100 (0.150 MM)	—	—	50 MAX	50 MAX
NO. 200 (0.075 MM)	15 MAX	25 MAX	20 MAX	20 MAX
CHARACTERISTICS OF FRACTION PASSING NO. 40 (0.425 MM)				
LIQUID LIMIT	—	—	40 MAX	41 MAX
PLASTICITY INDEX	—	6 MAX	10 MAX	10 MAX
USUAL TYPES OF SIGNIFICANT	STONE FRAGMENTS	—	SILTY OR CLAYEY	—
CONSTITUENT MATERIALS	GRAVEL OR SAND	—	GRAVEL OR SAND	—

**ADDITIONAL REQUIREMENTS**

- MATERIALS MUST BE DENSE GRADED. NO OPEN OR GAP GRADED MATERIAL IS ALLOWED.
- FINE BEACH SANDS, WINDBLOWN SANDS, STREAM DEPOSITS EXHIBITING FINE, ROUNDED PARTICLES AND TYPICALLY SPECIFIED BY AASHTO AS A-3 MATERIALS ARE NOT ALLOWED.
- ON-SITE MIXING OR BLENDING TO ACHIEVE SPECIFIED GRADATION IS NOT ALLOWED.
- MAXIMUM PARTICLE SIZE MUST NOT EXCEED 3 INCHES. FOR A-2 MATERIALS MOISTURE CONTENT MUST BE BETWEEN -3% TO +2% OF OPTIMUM AS DEFINED BY AASHTO T-180. ALL SOIL CLASSIFICATIONS ARE LIMITED IN HEIGHT OF COVER AND STRUCTURE SHAPE APPLICATIONS AS FOLLOWS:
  - A) A-1-A MATERIAL IS SUITABLE FOR ALL LONG SPAN SHAPES, SIZES, AND FILL HEIGHTS.
  - B) A-1-B MATERIAL IS SUITABLE FOR USE WITH HIGH PROFILE ARCH AND PEAR SHAPED STRUCTURES TO A 12 FEET MAXIMUM FILL HEIGHT AND FOR USE WITH ELLIPTICAL AND LOW PROFILE ARCH STRUCTURES TO A 20 FEET MAXIMUM FILL HEIGHT.



## TYPICAL BACKFILL



LANE ENTERPRISES, INC.  
8271 MERCER STREET  
PULASKI, PA 16143  
PH: 724-652-7747  
FAX: 724-652-0415

PROJECT NAME: BOX CULVERT BACKFILL  
DRAWN BY: "TJG"  
DATE: 6/18/2020



## NOTICE OF AUTHORIZATION

**Permit Number: WRP030689 v. 1**

**Date Issued: September 9, 2021**

**Site Name: 23 - Butterfield Structure over Big Creek Drain**

**Expiration Date: September 9, 2026**

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 structure at the Butterfield Road crossing of Big Creek Drain. Install a single, 64 foot long by 16.5-foot span and 6.7 foot rise corrugated metal pipe culvert with a 1.5-foot recessed invert. Place road fill and riprap slope protection impacting less than 0.10 acres of adjacent wetland. No mitigation is required.**

To be conducted at property located in: Eaton County, Waterbody: Big Creek Drain  
Section 25, Town 01N, Range 05W, Walton Township

Permittee:

Mathew Hannahs  
Eaton County Road Commission  
1112 Reynolds Road  
Charlotte, Michigan 48813

Issued By:

  
Holly Vickers  
Transportation Review Unit  
Water Resources Division  
616-295-2787

*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-WRD**  
**WRP030689 v1.0**  
**Approved**  
**Issued On:09/09/2021**  
**Expires On:09/09/2026**



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

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**Issued To:**

**Eaton County Road Commission  
1112 Reynolds Road  
Charlotte, Michigan 48813**

Permit No: WRP030689 v.1  
Submission No.: HP8-YMRN-H7HN1  
Site Name: 23 - Butterfield Structure over Big Creek Drain  
Issued: September 9, 2021  
Revised:  
Expires: September 9, 2026

This permit is being issued by the Michigan Department of Environment, Great Lakes, and Energy (EGLE), Water Resources Division (WRD), 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 checked="" 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) |   |

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

**Authorized Activity:**

**Remove the existing structure at the Butterfield Road crossing of Big Creek Drain. Install a single, 64 foot long by 16.5-foot span and 6.7 foot rise corrugated metal pipe culvert with a 1.5-foot recessed invert. Place road fill and riprap slope protection impacting less than 0.10 acres of adjacent wetland. No mitigation is required.**

Waterbody Affected: Big Creek Drain  
Property Location: Eaton County, Walton Township, Town/Range/Section 01N05W25

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

- 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.
- The permittee, in exercising the authority granted by this permit, shall not cause unlawful pollution as defined by Part 31 of the NREPA.
- 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.
- 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.

**EGLE-WRD  
WRP030689 v1.0  
Approved  
Issued On:09/09/2021  
Expires On:09/09/2026**

- 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 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 being implemented.
- 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 is 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. All work shall be completed in accordance with plans attached and kept on file with EGLE, WRD, Transportation Review Unit.
  2. 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 off the road right-of-way is a violation of this permit, Part 91, and Part 31, Water Resources Protection, of the NREPA. A violation of these parts subjects the permittee to potential fines and penalties.
  3. This permit does not authorize or sanction work that has been completed in violation of applicable federal, state, or local statutes.
  4. 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.
  5. 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. 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.
  6. 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.
  7. 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 20<sup>th</sup> for the Upper Peninsula, October 1<sup>st</sup> for the Lower Peninsula north of US-10, and October 10<sup>th</sup> for the Lower Peninsula south of US-10.
  8. This 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.

9. 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 at the date of issuance. If the project is not completed by the expiration date, a new permit must be sought.
10. 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.
11. 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).
12. During removal or repair of the existing structure, 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.
13. Prior to the removal of the existing structures, cofferdams of steel sheet piling, gravel bags, clean stone, coarse aggregate, concrete or other acceptable barriers shall be installed to isolate all construction activity from the water. The barriers shall be maintained in good working order throughout the duration of the project. Upon project completion, the accumulated materials shall be removed and disposed of at an upland site.
14. All cofferdam and temporary steel sheet pile shall then be removed in its entirety, unless specifically shown to be left in plan on the accepted plans. Cofferdam and sheet pile that is left in place shall be cut off at the elevation shown on the plans and shall be a minimum of one foot below the stream bottom.
15. The existing structure shall be kept open to pass the stream flow during removal of the existing road fill.
16. 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 sedimentation 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.
17. 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 recessed into the stream bed to provide a natural channel substrate throughout the structure, as shown on the approved plans.
18. Road fill side slopes shall not be steeper than 1-on-2 (one vertical to two horizontal) except where headwalls of reinforced concrete, mortar masonry, dry masonry, or other acceptable methods are used.
19. 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 ripped extending above the ordinary high-water mark, before or upon commencement of the permitted activity. Temporary stabilization measures shall be maintained until permanent measures are in place.

20. All other road fill slopes, ditches, and other raw areas draining directly to the stream may be protected with riprap, sod and/or seed and mulch as may be necessary to provide effective erosion protection. The placement of riprap shall be limited to the minimum necessary to ensure proper stabilization of the side slopes and fill in the immediate vicinity of the structure.
21. 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 seed and mulch, or other acceptable temporary protection.
22. No work shall be done in the stream during periods of above-normal flows except as necessary to prevent erosion.
23. To avoid disturbance of Northern long-eared bat, which is federally listed as a threatened species, or Indiana bat, which is federally listed as an endangered species, any tree larger than three inches in diameter shall not be cut between April 1 and September 30 of any year.
24. This project occurs within an area that is considered to be occupied by the federally threatened eastern massasauga rattlesnake (EMR). The following BMPs are necessary to avoid potential take of EMR:
  - Use wildlife-safe materials for erosion control and site restoration. Eliminate the use of erosion control products containing plastic mesh netting or other similar materials that could entangle EMR.
  - To increase human safety and awareness of EMR, those implementing the project should first watch MDNR's "60-Second Snakes: The Eastern Massasauga Rattlesnake" video (available at [https://youtu.be/~PFnXe\\_e02w](https://youtu.be/~PFnXe_e02w)), or review the EMR factsheet (available at <https://www.fws.gov/midwest/endangered/reptiles/eama/pdf/EMRfactsheetSep2016.pdf>), or call (517) 351-2555.
  - During project implementation, require reporting of any federally listed species, including EMR, to the Service within 24 hours.
  - Exclusionary fencing should be used as a barrier around the project site that occurs within or adjacent to EMR habitat. Once the fence is installed the construction area should be cleared by qualified individual who has demonstrated experience in identification of EMR or otherwise approved by the Service. The exclusionary fencing should be walked weekly to ensure the integrity of the barrier. Once construction activities are complete, the exclusionary fence should be removed from the site.
  - The project site should be revegetated with appropriate native or natural wetland plants to maintain the quality of the existing wetland and prevent the establishment of invasive species.
25. **Prior to the start of construction, all adjacent non-work wetland areas shall be protected by properly trenched sedimentation barrier to prevent sediment from entering the wetland. Orange construction fencing shall be installed as needed to prohibit construction personnel and equipment from entering or performing work in these areas. Fence shall be maintained daily throughout the construction process. Upon project completion, the accumulated materials shall be removed and disposed of at an upland site, the sedimentation barrier shall then be removed in its entirety and the area restored to its original configuration and cover.**

**26. Stormwater shall not directly outlet to the stream.**

**27. No ditching or other work beyond what is shown on the plans attached shall occur in the wetland areas.**



Issued By: \_\_\_\_\_

Holly Vickers  
Transportation Review Unit  
Water Resources Division  
616-295-2787

cc: Walton Township Clerk  
Eaton County Drain Commissioner  
Eaton County CEA  
Carol Valor, EGLE  
Mary Vanderlaan, EGLE  
Brian Gunderman, MDNR, Fisheries



HEISLER, SHIRLEY J  
478 W BUTTERFIELD HWY.  
OLIVET, MI 49076

CASE, JEFFEREY A & SHERRIE D  
478 W BUTTERFIELD HWY.  
OLIVET, MI 49076

Place 5 SYD Plain Riprap  
(TYP. each quadrant)

33' ROW

page and intercounty sleeper drain



EX. DOUBLE BARREL  
WOOD BOX CULVERT

Butterfield Hwy.

POB

POE

22.5'  
EX. PAVT

33' ROW

PROPOSED 54' LONG ALUMINUM BOX CULVERT  
WITH HEADWALLS AND WINGWALLS  
16.5' SPAN, 6.67' RISE

STRADER, JEFF A/  
DORMAN, AMY E  
W BUTTERFIELD HWY.  
OLIVET, MI 49076

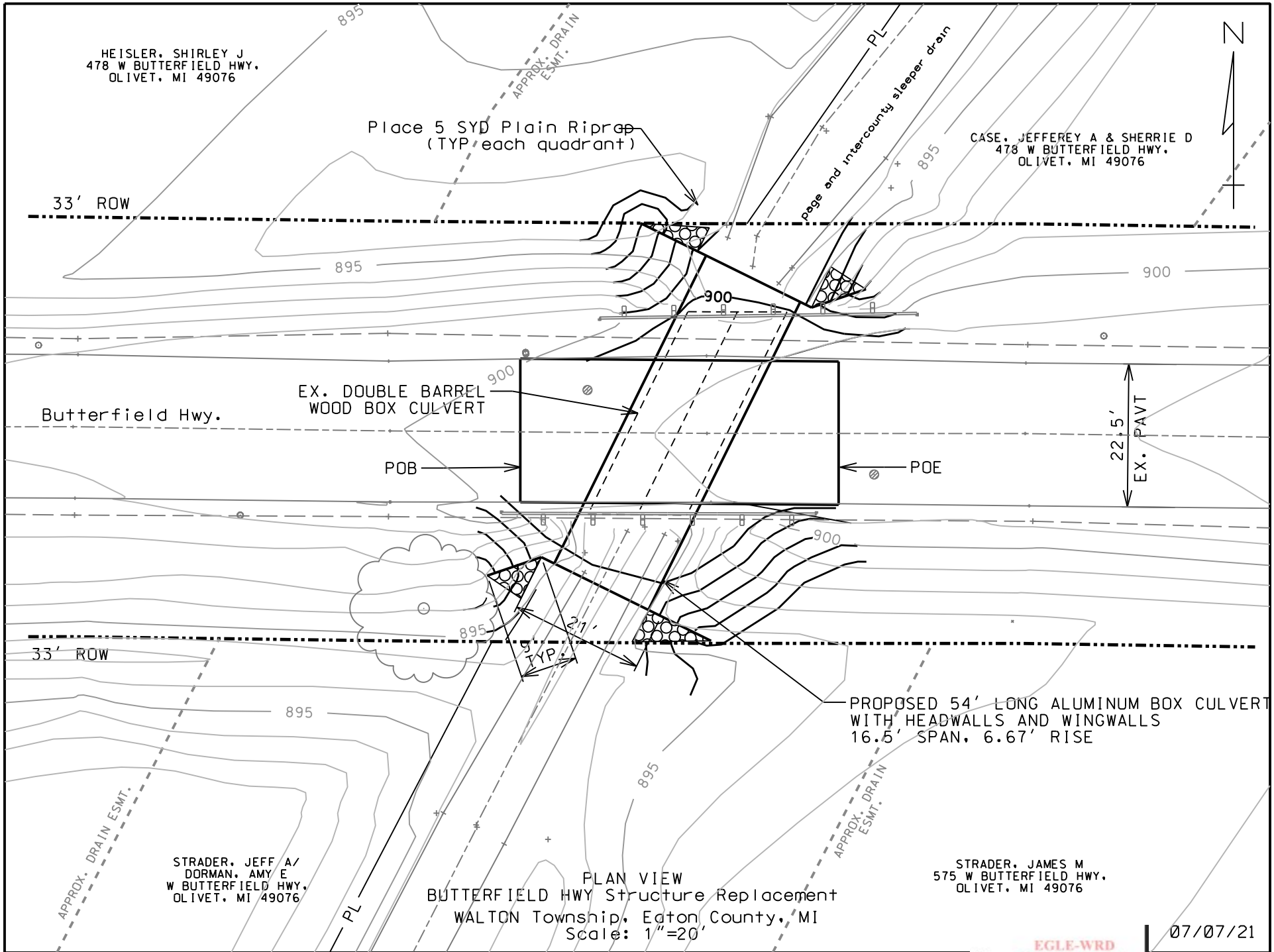
STRADER, JAMES M  
575 W BUTTERFIELD HWY.  
OLIVET, MI 49076

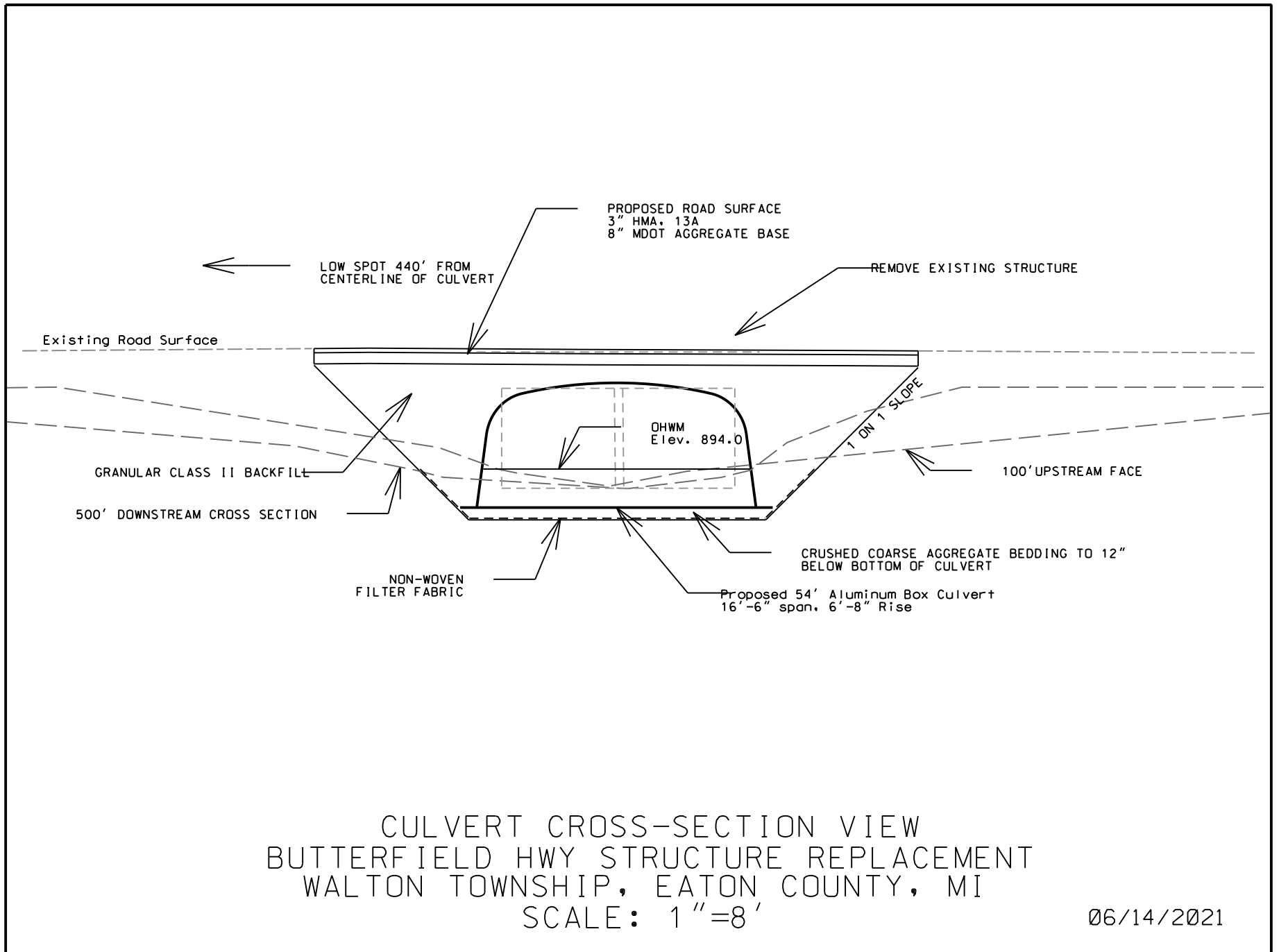
PLAN VIEW  
BUTTERFIELD HWY Structure Replacement  
WALTON Township, Eaton County, MI  
Scale: 1"=20'

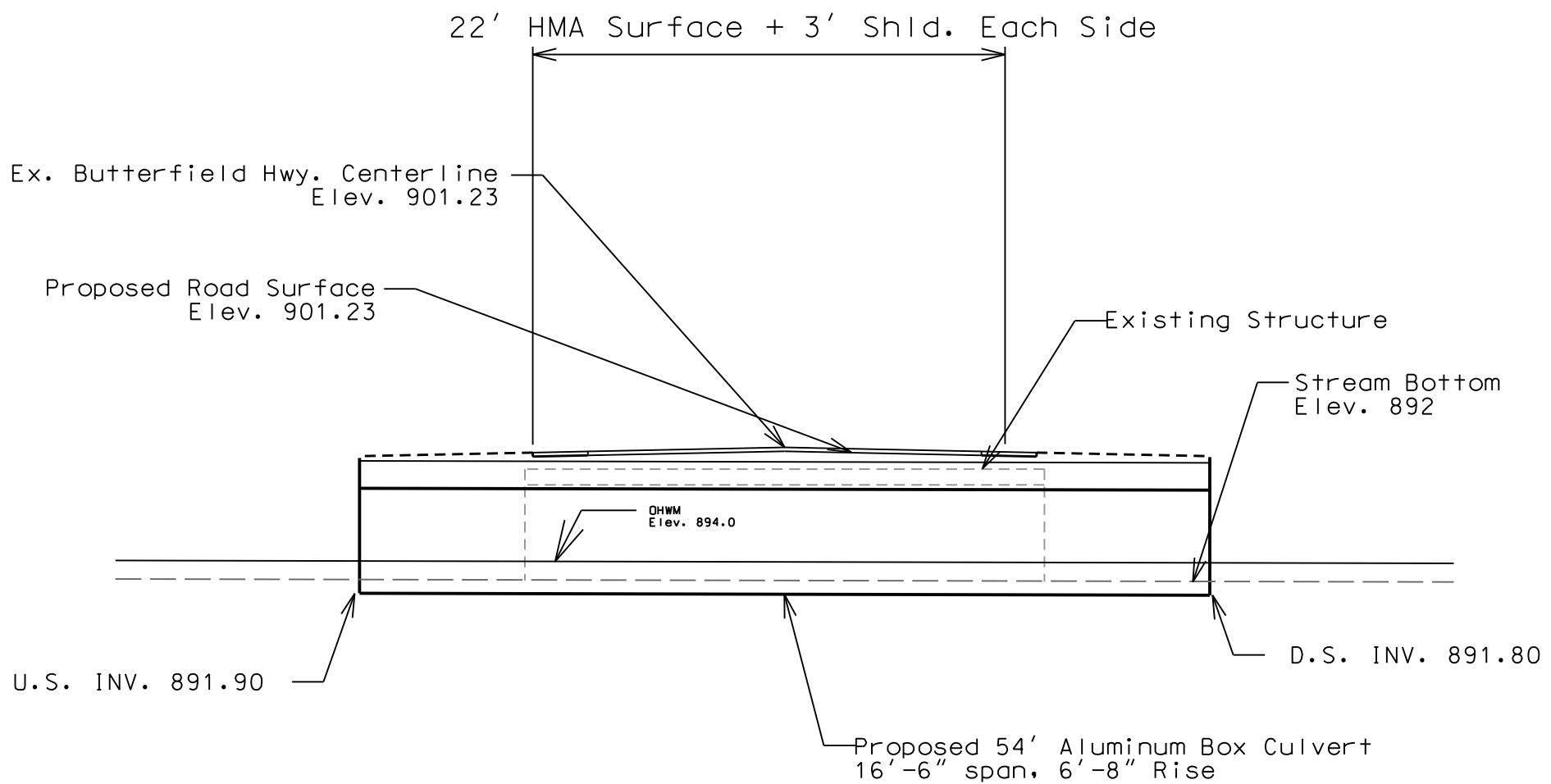
07/07/21

15.

EGLE-WRD  
WRP030689 v1.0  
Approved  
Issued On:09/09/2021  
Expires On:09/09/2026







CULVERT PROFILE VIEW  
 Butterfield hwy. Structure Replacement  
 walton Township, Eaton County, MI  
 Scale: 1"=10'

07/08/21