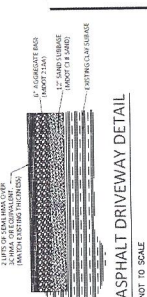
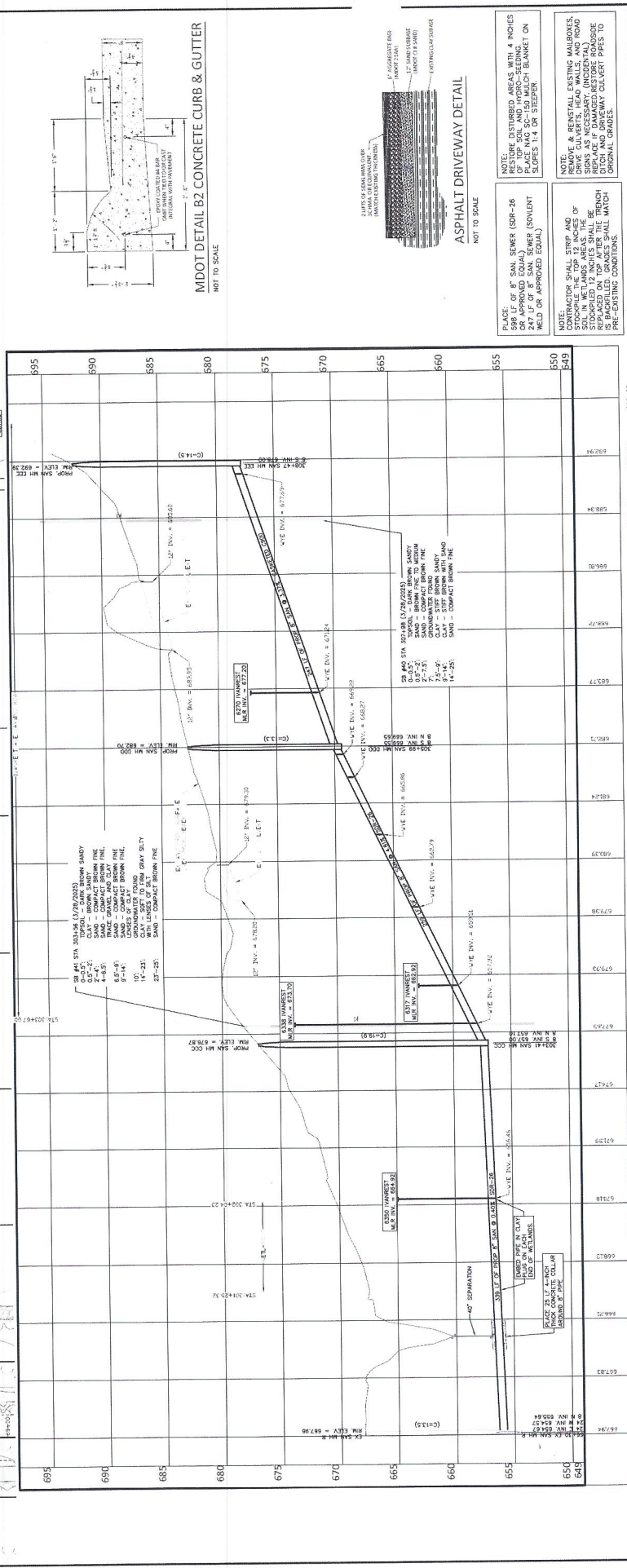
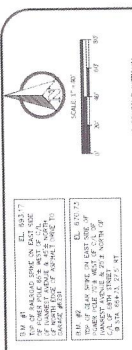
[illegible]



<p>PLACE: 18" DEEP LIFT OF 8" SAN. SEWER (SDP-26 OR APPROVED EQUIV.) TO BE INSTALLED ON EXISTING FIELD OR APPROVED SOIL.</p>	<p>NOTE: RESTORE DISTURBED AREAS WITH 4 INCHES OF TOP SOIL. REPAIR OR REPLACE ANY PLANTING NAD. C-20 MULCH BLANKET ON SLOPES 1:4 OR STEEPER.</p>
<p>NOTE: CONTRACTOR SHALL TYPIC 24" THICKNESS OF TOP SOIL IN WETLANDS AREAS. THE TOP SOIL SHALL BE REPLACED 12" AFTER THE TRENCH IS BACKFILLED. GRASSES SHALL MATCH EXISTING CONDITIONS.</p>	<p>NOTE: REMOVE & REINSTALL EXISTING MALDROES, MANHOLES, & EGRESS POINTS FROM TRENCH AS NECESSARY. (INCIDENTAL) REPLACE IF DAMAGED. RESTORE ROADSIDE DRAINAGE WITH SAME CULVERT PIPED TO ORIGINAL GRADES.</p>

[illegible]



1. 1/2" OF 1/2" SAND (SEE NOTES)

2. 1/2" OF 1/2" SAND (SEE NOTES)

3. 1/2" OF 1/2" SAND (SEE NOTES)

4. 1/2" OF 1/2" SAND (SEE NOTES)

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94. 1/2" OF 1/2" SAND (SEE NOTES)

95. 1/2" OF 1/2" SAND (SEE NOTES)

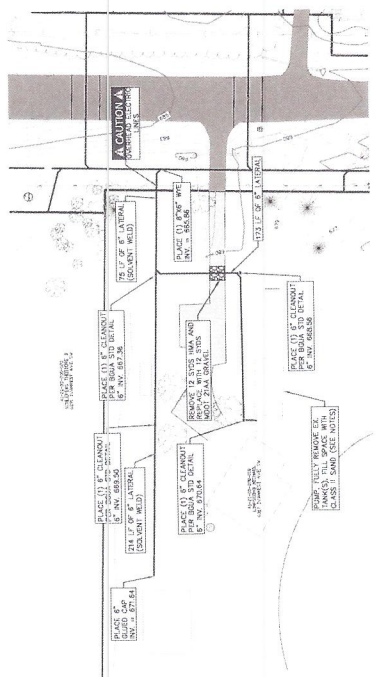
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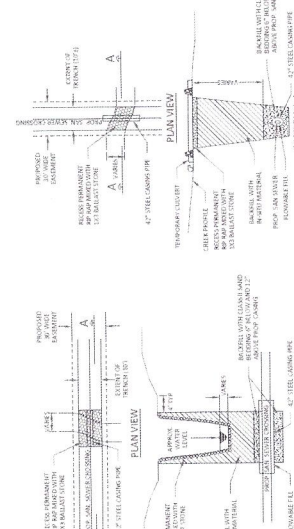
98. 1/2" OF 1/2" SAND (SEE NOTES)

99. 1/2" OF 1/2" SAND (SEE NOTES)

100. 1/2" OF 1/2" SAND (SEE NOTES)



63.17 HARBEST LATERAL PLAN DETAIL



63.17 HARBEST LATERAL CROSS SECTION DETAIL

- LATERAL NOTES:
1. CONSTRUCTION SHALL VERIFY THE EXISTING LATERAL, INTERFERE IF THE EXISTING LATERAL IS NOT AS SHOWN.
 2. EXISTING LATERAL SHALL BE REPAIRED OR REPLACED WITH 12\"/>

BYRON TOWNSHIP
KENT COUNTY, MICHIGAN
NORTHWEST SANITARY SEWER - PHASE 2
PLAN & PROFILE

NO.	DATE	BY	CHKD	APPD	DESCRIPTION
1	06/29/2023	FOR BID			FOR BID
2	07/21/2023	FOR BID			FOR BID

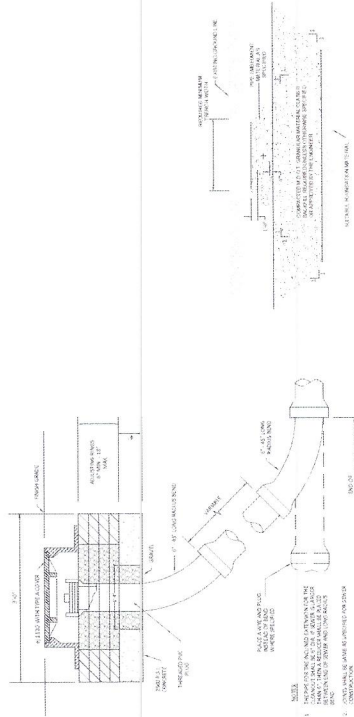


Vriesman & Kohnm
CIVIL
www.vkcsd.com

FILE NO. 1280
REVISION
DATE 07/21/23
BY JMG
CHECKED
DATE 08/07/23
BY JMG
SCALE 1" = 40'

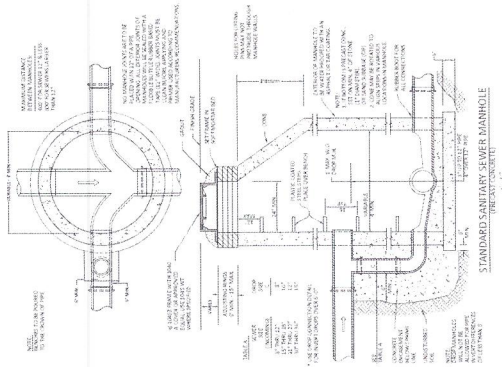
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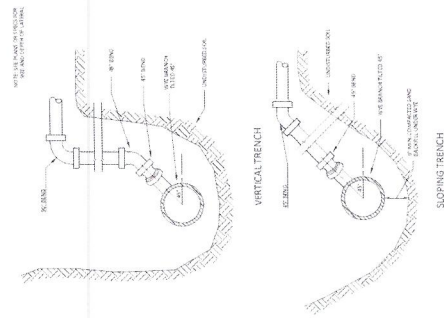


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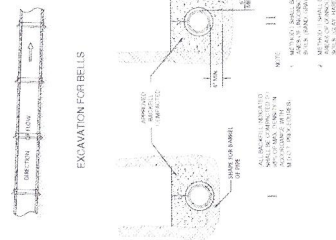
12-4



1000



61-9



100

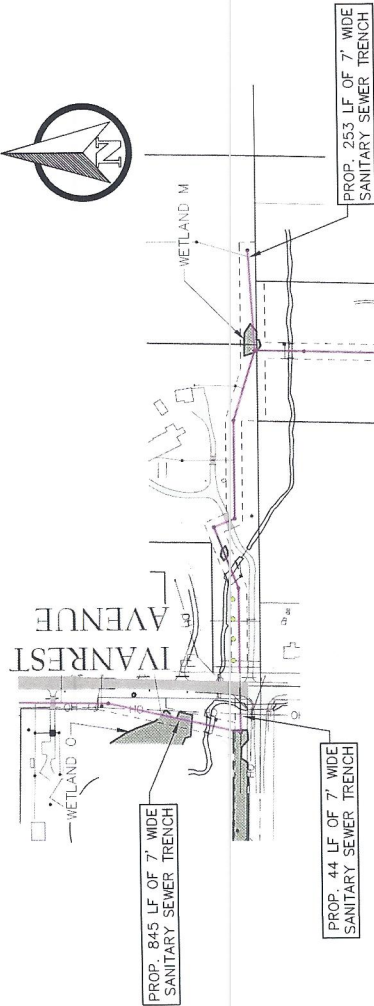
BRON TOWNSHIP FENT COUNTY, MICHIGAN	BR / CIV	REVISION	DATE	BY
		1	04/22/2025	
		2	07/11/2025	
SHEET REVISION COMMENTS				
NORTHWEST SANITARY SEWER - PHASE 2				
BOUIS STANDARD SEWER DETAILS				
				
1260 7/16/27/2105 JMK 1260 6977120 6 OF 6 www.vriesman.com				

VK CIVIL
Vriesman
& Korhorn
www.VKcivil.com

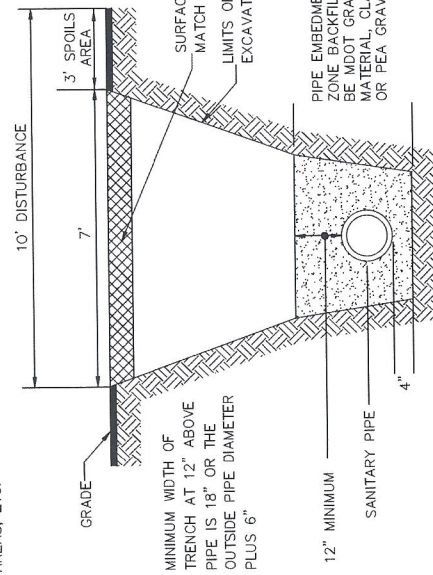
BYRON TOWNSHIP
KENT COUNTY, MICHIGAN

NORTHWEST SANITARY SEWER - PHASE 2

BGUA STANDARD SEWER DETAILS



COMPACTED BACKFILL ABOVE PIPE
EMBEDMENT ZONE SHALL BE CLEAN
SITE SUBSOIL OR MEDIUM GRAINULAR
MATERIAL, CLASS II WHEN EXCAVATED
AREA IS WITHIN A 10' MIN. DISTANCE
FROM ROAD SURFACES, DRIVES, PAVED
AREAS, ETC.



TRENCH SECTION

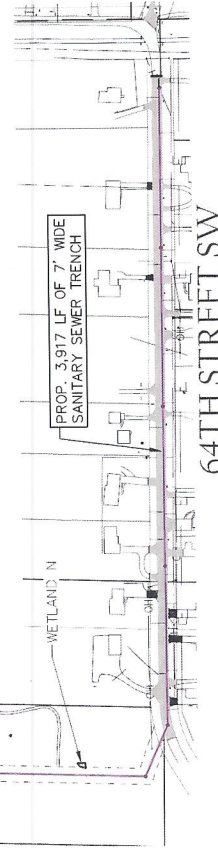
NOT TO SCALE

NOTE:
ADJACENT WETLANDS TO BE
PROTECTED ALONG ENTIRE
SANITARY SEWER ROUTE. SILT
FENCING TO BE PLACED ON BOTH
SIDES OF THE EXCAVATION

NOTE:
ALL DISTURBED WETLAND AREAS
TO BE RESTORED TO EXISTING
GRADES. RESPERAD AREAS WITH
EXISTING NATIVE WETLAND TOPSOIL.

STREAM IMPACT									
	AREA		VOLUME (CYD)						
	SFT	ACRE	CUT	FILL	NET				
STREAM CROSSING 1	112	0.003	39	39	0				
STREAM CROSSING 2	70	0.002	26	26	0				
STREAM CROSSING 3	91	0.002	22	22	0				
TOTAL	252	0.007	87	87					

WETLAND IMPACT					
	AREA		VOLUME (CYD)		
	SFT	ACRE	CUT	FILL	NET
WETLAND J (REGULATED)	118	0.003	60	60	0
WETLAND L (REGULATED)	165	0.004	84	84	0
WETLAND M (REGULATED)	618	0.014	246	246	0
WETLAND N (REGULATED)	NO IMPACT				
WETLAND O (REGULATED)	538	0.012	259	259	0
TOTAL	1,430	0.033	726	726	0



LEGEND

REGULATED WETLAND

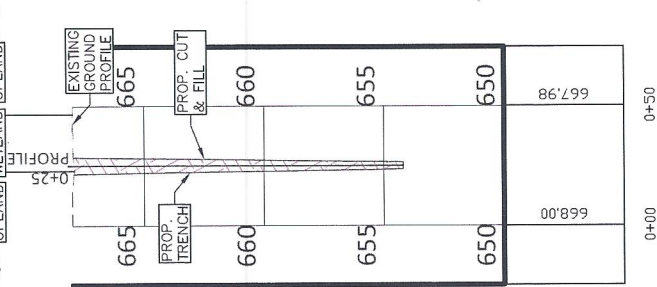
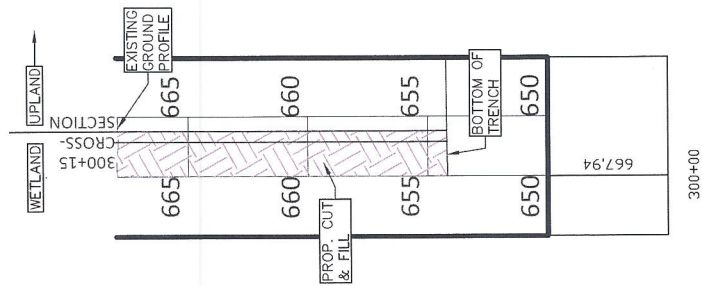
PROPOSED 7' WIDE
SANITARY SEWER TRENCH



BYRON NORTHWEST SANITARY SEWER
WETLAND IMPACT SKETCHES
APRIL 2025
JOB NO. 1260

Byron Center, MI
(616) 277-2185
Kalamazoo, MI
W269169.27720.1.0
SHEET 06 OF 8

Expires On: 04/21/2030



PLAN VIEW
SCALE: 1" = 50'

PROFILE VIEW
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

BYRON NORTHWEST SANITARY SEWER
WETLAND J
APRIL 2025
JOB NO. 1260



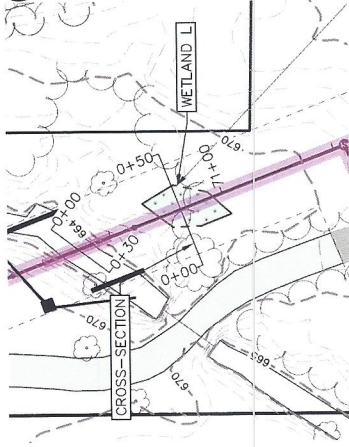
Vriesman
& Korhorn

Byron Center, MI
(616) 277-2185

Kalamazoo, MI

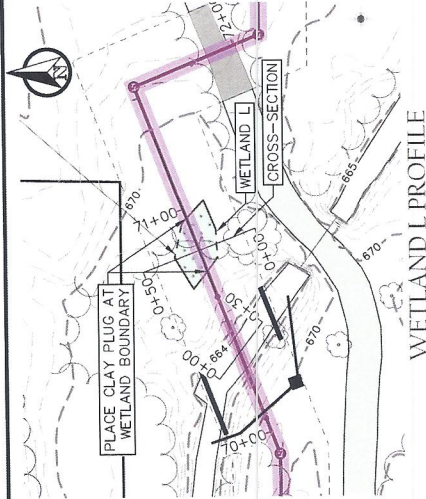
(269) 697-7920

SHEET 2 OF 8
Issued On: 04/21/2025
Expires On: 04/21/2030

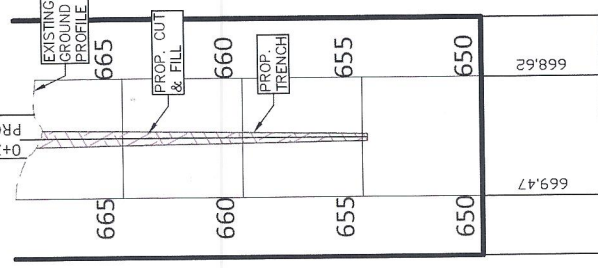
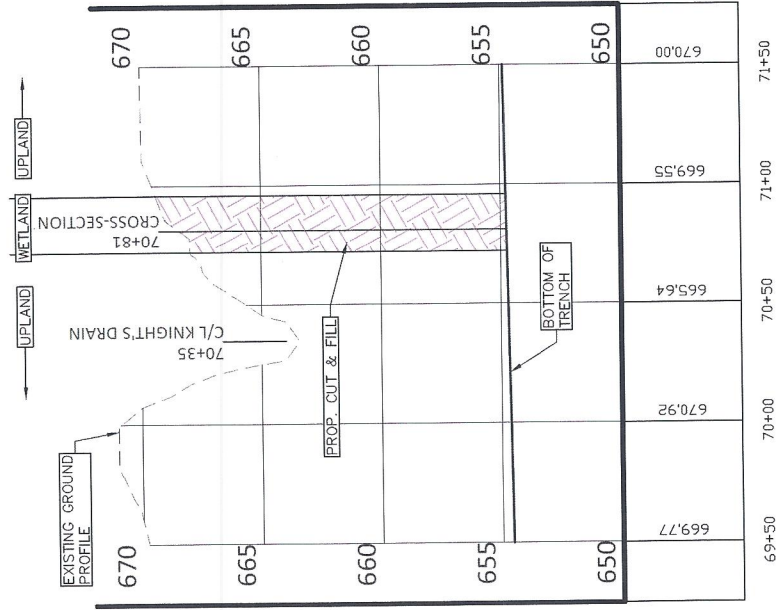


WETLAND L CROSS-SECTION

UPLAND WETLAND UPLAND



WETLAND L PROFILE



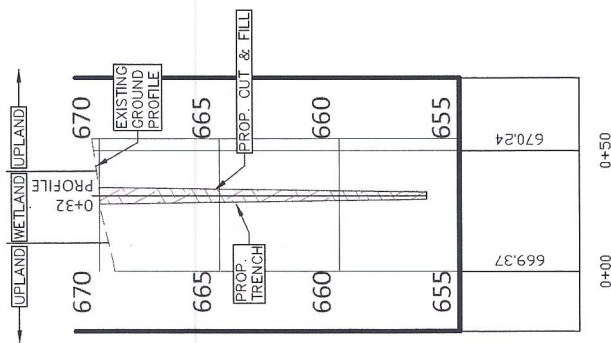
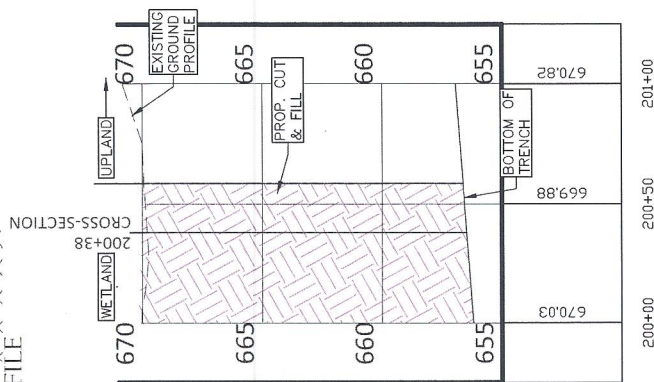
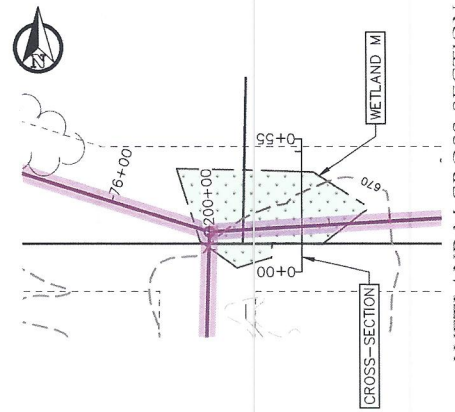
PLAN VIEW PROFILE VIEW
SCALE: 1" = 50' HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



Byron Center, MI
(616) 277-2185
Kalanizob, MI
(269) 692-7320 x 110
SHEET 13 OF 84

BYRON NORTHWEST SANITARY SEWER
IMPACTED WETLAND L
APRIL 2025
JOB NO. 1260

Expires On: 04/21/2030



PLAN VIEW
SCALE: 1" = 50'

PROFILE VIEW
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

BYRON NORTHWEST SANITARY SEWER
IMPACTED WETLAND M
APRIL 2025
JOB NO. 1260



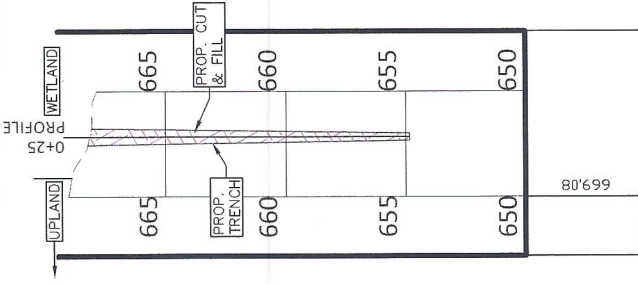
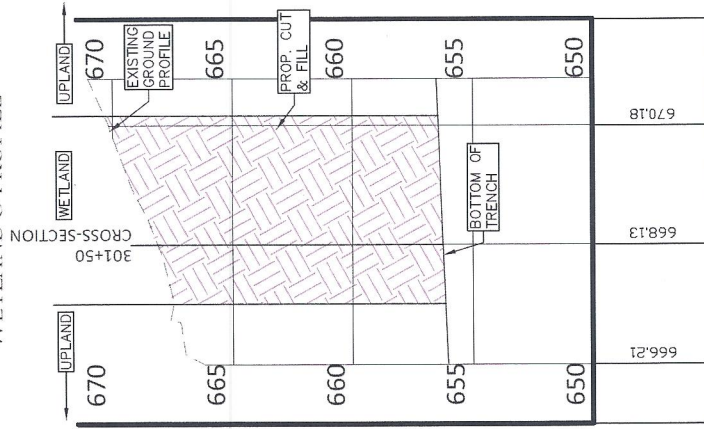
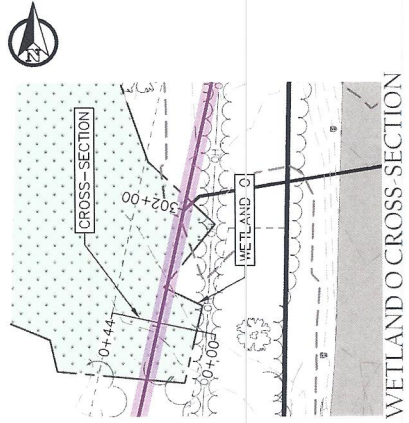
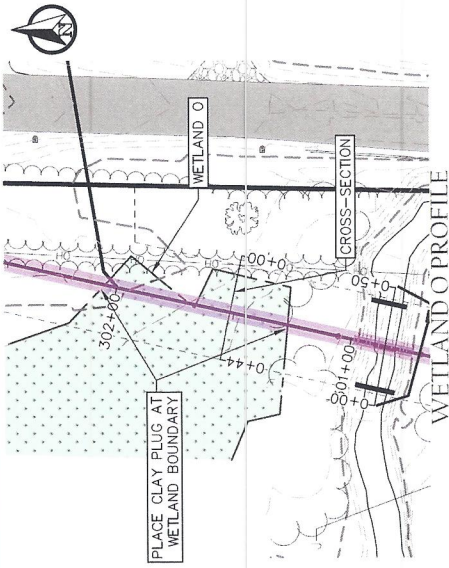
Byron Center, MI
(616) 277-2185

Kalamazoo, MI

1-800-749-8100
(269) 697-7120

12/10/00

Expires On:04/21/2030



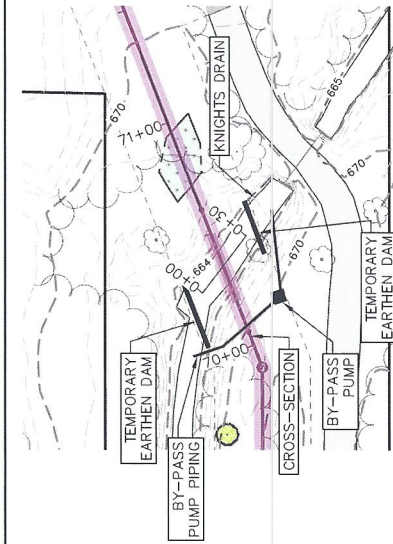
PLAN VIEW PROFILE VIEW
SCALE: 1" = 50' HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



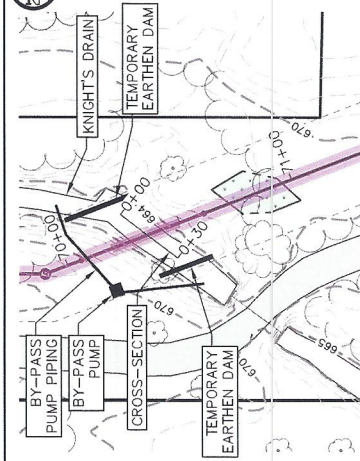
BYRON NORTHWEST SANITARY SEWER
WETLAND O
APRIL 2025
JOB NO. 1260

Byron Center, MI
(616) 777-2185
Kalamazoo, MI
(269) 692-7120 x110
SHEET 15 OF 84

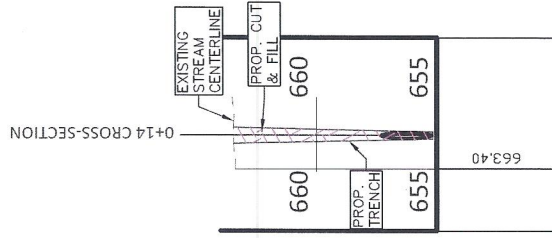
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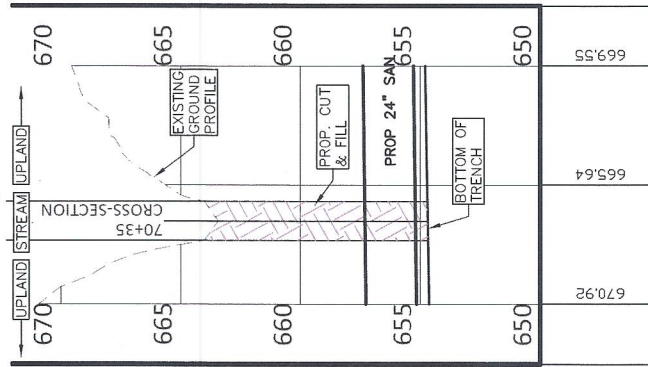
STREAM CROSSING 1 PROFILE



STREAM CROSSING 1 CROSS-SECTION



0+00



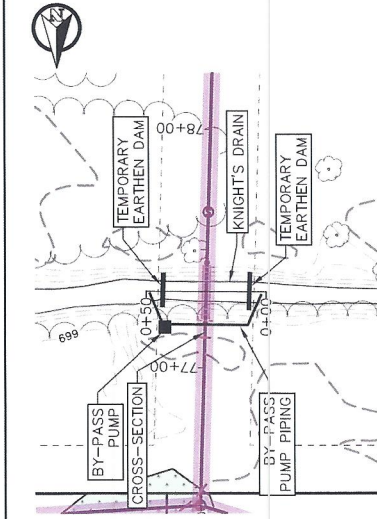
PLAN VIEW PROFILE VIEW
SCALE: 1" = 50' HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



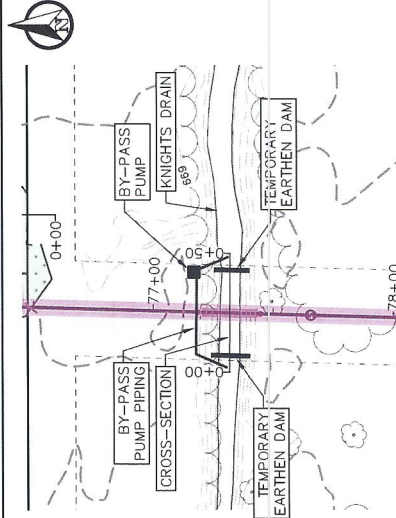
BYRON NORTHWEST SANITARY SEWER
STREAM CROSSING 1
APRIL 2025
JOB NO. 1260

Byron Center, MI
(616) 277-2185
Kalamazoo, MI
(269) 697-2120 v1.0
SHEET 6 OF 8-01

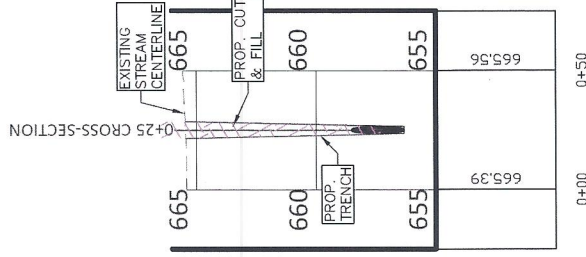
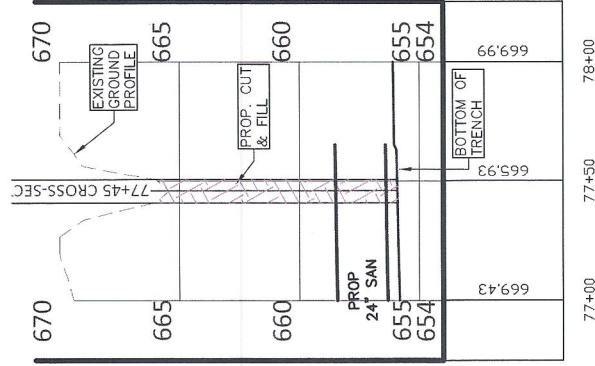
Issued On: 04/21/2025
Expires On: 04/21/2030



STREAM CROSSING 2 CROSS-SECTION



STREAM CROSSING 2 PROFILE



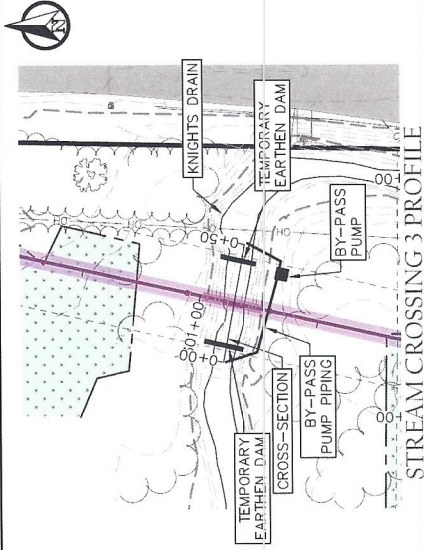
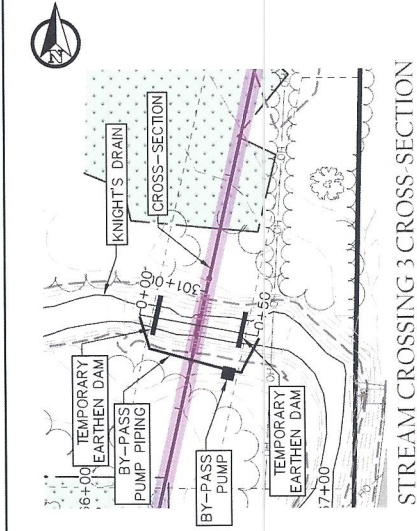
PLAN VIEW PROFILE VIEW
SCALE: 1" = 50' HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



BYRON NORTHWEST SANITARY SEWER
STREAM CROSSING 2
APRIL 2025
JOB NO. 1260

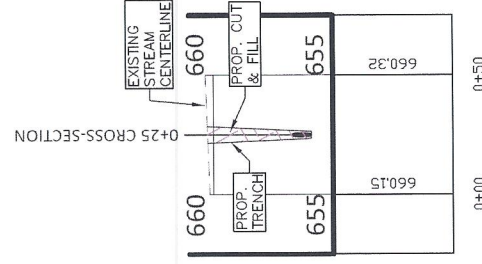
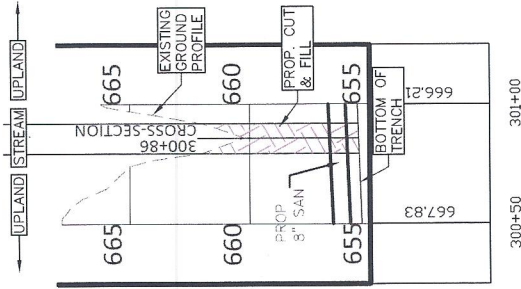
Byron Center, MI
(616) 277-2185
Kalamazoo, MI
V2691697-2149 v.1.0
SHEET 2 OF 8-31

Issued On: 04/21/2025
Expires On: 04/21/2030



STREAM CROSSING 3 CROSS SECTION

STREAM CROSSING 3 PROFILE



PLAN VIEW PROFILE VIEW
SCALE: 1" = 50' HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'



BYRON NORTHWEST SANITARY SEWER
STREAM CROSSING 3
APRIL 2025
JOB NO. 1260

Byron Center, MI
(616) 277-2185
Kalamazoo, MI
(269) 697-7449 v.1.0
SHEET 8 OF 8-01
Issued On: 04/21/2025
Expires On: 04/21/2030

EXHIBIT 3

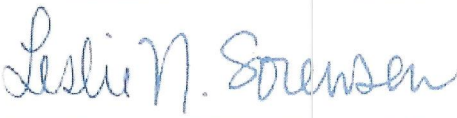
MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY
WATER RESOURCES DIVISION
PERMIT FOR CONSTRUCTION OF WASTEWATER SYSTEMS

SITE NAME:	Byron-Gaines Utility Authority CM	PERMIT NUMBER:	P41005488 v. 1
CONTACT NAME:	Barry Korhorn	ISSUED DATE:	July 11, 2025
CONTACT PHONE:	616-971-0002	ISSUED TO:	Byron-Gaines Utility Authority
CONTACT EMAIL:	bd.korhorn@bgua.org	PROJECT NAME:	NW Byron Sewer Phase 2
PROJECT COUNTY:	Kent	PROJECT LOCATION:	Byron Township

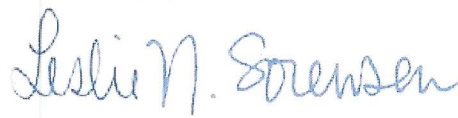
APPLICATION SUBMISSION ID: HQD-G3CW-BK53D
REQUIRED NOTIFICATIONS: The permittee shall submit a Construction Startup Notification (just prior to excavation) and a Construction Completion Notification (upon project completion) using the permit schedules in MiEnviro Portal.
<input type="checkbox"/> If this box is checked, please see the SPECIAL CONDITIONS on page 2.

**ISSUED UNDER THE AUTHORITY OF THE DIRECTOR OF
THE DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY (EGLE)**

Issued By:


Leslie N. Sorensen, P.E. Engineering Specialist

Reviewed By:


Leslie N. Sorensen, P.E. Engineering Specialist

cc: Kent County Health Department
Jeff Gritter, P.E., Vriesman & Korhorn Civil Engineers
Aaron Van Proyen, P.E., Vriesman & Korhorn Civil Engineers

GENERAL CONDITIONS

- a. This PERMIT only authorizes the construction, alteration, addition, or improvement of the wastewater system as described herein and is issued solely under the authority of Part 41, Sewerage Systems, of Act 451.
- b. This PERMIT expires two (2) years after the above date of issuance unless construction starts prior to the expiration date in accordance with R 299.2939(2) of the Part 41 Administrative Rules.
- c. Any portion of the herein-described proposed wastewater project constructed prior to the date of issuance is not authorized by this PERMIT and is a violation of Part 41 of Act 451.
- d. No sewer shall be placed into service unless and until the outlet sewer has been constructed, tested, and placed into service.
- e. Failure to meet any condition of this PERMIT or any requirement of Act 451 constitutes a violation of Act 451.
- f. Issuance of this PERMIT does not authorize any violation of federal, state, or local laws or regulations, nor does it obviate the need to obtain other permits or approvals from EGLE or other units of government as required by law.
- g. The applicant must provide notice of impending construction to public utilities and comply with the requirements of the Underground Facility Damage Prevention and Safety Act, PA 174 of 2013, as amended (MISS DIG).
- h. All earth-changing activities must be conducted in accordance with Part 91, Soil Erosion and Sedimentation Control, of Act 451.
- i. All construction activity, including groundwater dewatering, impacting wetlands shall be conducted in accordance with Part 303, Wetlands Protection, of Act 451.
- j. If water withdrawal, via dewatering activities, is associated with this project, authorization under Part 327, Great Lakes Preservation, of Act 451, is required for new or increased large quantity withdrawals over 100,000 gallons per day (70 gallons per minute). A Part 327 permit is required for new or increased large quantity withdrawals over 2,000,000 gallons per day.

SPECIAL CONDITIONS

1. This permit does not have any special conditions in addition to the General Conditions listed above.

PROPOSED WASTEWATER PROJECT DESCRIPTION

Approximately 850 linear feet of 8-inch sanitary sewer along the west side of Ivanrest Avenue from 64th Street northerly to M-6, 250 linear feet of 12-inch sanitary sewer in a public easement on 6370 Ivanrest Avenue, and 2,300 feet of 24-inch sanitary sewer in a public easement from the intersection of 64th Street and Ivanrest Avenue east and south towards 64th Street, including manholes and laterals.

From: Alvarado, Mercedes (EGLE)
Sent: 4/21/2025 3:25:29 PM
To: "aaron@vkcivil.com" <aaron@vkcivil.com>
Cc: "Bultsma, Abigail (EGLE)" <BultsmaA@michigan.gov>;
"peggy@byrontownship.org" <peggy@byrontownship.org>; "Joel.Morgan@kentcountymi.gov"
<Joel.Morgan@kentcountymi.gov>; "ken.yonker@kentcountymi.gov"
<ken.yonker@kentcountymi.gov>; "Dubridge,Katelind" <katelind.dubridge@kentcountymi.gov>
Subject: WRP044398 v1.0 Permit and Plans
Attachments: Placard (WORD).pdf, Resources Individual or Minor Permit (WORD).pdf, 1260
WETLAND IMPACT SKETCH_20250414.pdf

Attached you will find a copy of the Permit and Plans issued for a project located at 41-6400 Ivanrest Ave SW-Byron Center. Please retain the attached documents for your records. Once the project is completed, please have the applicant contact Abigail Bultsma at 616-256-2192 or bultsmaa@michigan.gov, stating everything is completed and include any required photos.

Mercedes (Mercy) Alvarado

Mercedes (Mercy) Alvarado (she/her), Secretary
Grand Rapids District Office (GRDO)
Water Resources Division (WRD)
Michigan Department of Environment, Great Lakes, and Energy (EGLE)
616-333-9957 alvaradom3@michigan.gov

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To search for information on current and past permits, please visit our MiEnviro Site Explorer: <https://mienviro.michigan.gov/nsite/>

If you need this information in an alternate format, contact EGLE-Accessibility@Michigan.gov or call 800-662-9278.



MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY

This email and its contents are subject to the Freedom of Information Act and may be released to the public.

EGLE
WRP044398 v1.0
Approved
Issued On:04/21/2025
Expires On:04/21/2030

ATTACHMENT NAME:

Placard (WORD).pdf

ATTACHMENT TYPE:

Adobe Portable Document Format (PDF) compound image



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

Issued To:

**Byron Township
8085 Byron Center Ave SW
Byron Center, MI 49315**

**Permit No: WRP044398 v.1
Submission No.: HQ8-KPWF-SDHQ4
Site Name: 41-6400 Ivanrest Ave SW-Byron Center
Issued: April 21, 2025
Revised:
Expires: April 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:

☒ Part 301, Inland Lakes and Streams ☒ Part 303, Wetlands Protection

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:

Install 204 feet of 24-inch diameter sanitary sewer within a wetland and 31 linear feet of 24-inch sanitary sewer below Knight Drain by open trench methods. Install a temporary earthen dam within Knight Drain for the installation of the sanitary sewer. All work shall be completed in accordance with the approved plans and the specifications of this permit.

**Waterbody Affected: Knight Drain and Adjacent Wetland
Property Location: Kent County, Byron Township,
Town/Range/Section 05N/12W/04,
Property Tax No. 41-21-04-100-038, 41-21-04-100-040, 41-21-04-300-058,
41-21-05-200-018**

**EGLE
WRP044398 v1.0
Approved
Issued On:04/21/2025
Expires On:04/21/2030**

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 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, 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 permit or program requirements under Part 91 of the NREPA or the need to acquire applicable permits from the CEA. 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.

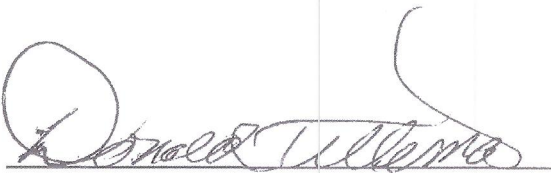
4. This permit does not authorize or sanction work that has been completed in violation of applicable federal, state, or local statutes.
5. The permit placard shall be kept posted at the work site in a prominent location at all times for the duration of the project or until permit expiration.
6. This 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. Prior to the removal of the existing structures, cofferdams of steel sheet piling, gravel bags, clean stone, coarse aggregate, concrete, or other acceptable materials 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.
8. Upon project completion, all cofferdams and temporary steel sheet pile shall removed in their entirety, unless specifically shown to be left in place on the approved plans. Cofferdams and sheet pile that are 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.
9. The construction of the stream crossing shall be subject to the specifications for protection of natural resources at utility water crossings as given in the Administrative Rules for Part 301, Inland Lakes and Streams, of the NREPA, R 281.832 - R 281.838 (Rule 22 through 28). The permittee is cautioned not to commence construction of the watercourse crossing without first reviewing said specifications and adhering to them. The permittee shall be responsible for transmittal of the Administrative Rules to the general contractor and/or subcontractors and shall ensure that all contractors comply with all conditions of this permit.
10. The permittee shall implement project design features, which will assure that the authorized pipeline, conduit, or utility installation does not result in drainage of the associated wetlands. If the pipeline, conduit, or utility installation causes drainage, the permittee remains liable and responsible for project modifications, as approved by EGLE, to halt the resultant drainage and to prevent future drainage of the wetland.
11. Backfill used in the excavated trench shall not result in the drainage of wetlands. Clay plugs shall be shown in the construction plans and shall be placed at the wetland/upland boundary in all instances and as needed throughout the trench system.
12. If the utility is trenched through a stream or lake, all spoil material shall be removed from the stream or lake and disposed of on an upland (non-floodplain, non-wetland or non-bottomland) site. The trench shall be backfilled with washed gravel.
13. Trench excavation shall be restored to pre-existing grade by backfilling the trench so native soils are replaced in reverse order of excavation, replacing the topsoil at the surface.
14. Materials used for erosion control and site restoration must be wildlife-friendly. Do not use erosion control products containing plastic mesh netting or other similar material that could entangle eastern massasauga rattlesnake (EMR). Several products for soil erosion and control exist that do not contain plastic netting including net-less erosion control blankets (for example, made of excelsior), loose mulch, hydraulic mulch, soil binders, unreinforced silt fences, and straw bales. Others are made from natural fibers (such as jute) and loosely woven together in a manner that allows wildlife to wiggle free.
15. To increase human safety and awareness of EMR, those implementing the project must first review the EMR factsheet (available at <https://www.fws.gov/media/easternmassasauga-rattlesnake-fact-sheet>), and watch MDNR's "60-Second Snakes: The Eastern Massasauga Rattlesnake" video (available at https://www.youtube.com/watch?v=-PFnXe_e02w).

16. During project implementation, report sightings of any federally listed species, including EMR, to the Service within 24 hours.
17. The project will not result in permanent loss of more than one acre of wetland or conversion of more than 10 acres of EMR upland habitat (uplands associated with high quality wetland habitat) to other land uses.
18. The action will not include temporary or permanent lighting of roadway(s), facility(ies), and/or parking lot(s).

Issued By: Abigail Bultsma
Abigail Bultsma
Grand Rapids District Office
Water Resources Division
616-256-2192

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: Byron Township Clerk
Kent County Drain Commissioner
Kent County Clerk
Aaron Van Proyen, Agent