



WHITE LAKE TOWNSHIP DEPARTMENT OF PUBLIC SERVICES

7525 Highland Road, White Lake, Michigan 48383-2900, (248) 698-7700, www.whitelaketwp.com

March 6, 2026

Honorable Board of Trustees
Charter Township of White Lake
7525 Highland Road
White Lake, MI 48386

RE: Pontiac Lake Road Improvement Project Sewer Relocation

Honorable Board of Trustees,

On February 17th, 2026 DPS, the Township Engineer, and OCWRC Engineering met with RCOC engineers to discuss two conflicts with sewer mains on the Pontiac Lake Road improvement project. The project includes building a new road base, and paving including a round-about at Fisk Road. The mains near the Fish Road intersection will need to be relocated for construction of the road base and to relocated the access point out of the boulevard approach to the round-about. The main at the intersection of Kingston will need to be lowered as the road will be lowered in that area. The mains must be relocated to construct the road. They cannot remain where they are.

The costs of the public utility conflicts with a federal aid funded project are considered a "participating" item. What this means is that federal funds can be used to partially fund the relocation cost of the utility assuming that the utility relocation is included as part of the overall project bid package. The relocation construction cost would be eligible for 80% federal funding. The remaining 20% local match is requested from the Township and would be part of a funding agreement between the RCOC and Twp. The Township will be responsible for the cost of design and construction engineering / inspection for the sewer relocation.

- 1) Township is responsible for preparing necessary relocation design plans, specifications, estimates and obtaining the requisite permitting for the relocation activity.
- 2) The RCOC will include the documents from item 1 above into the bid contract for the road work, which will be bid via MDOT.
- 3) MDOT will enter into a construction contract with the contractor with all necessary bonds/insurance etc.
- 4) RCOC will manage the construction of the roadwork – inspection/testing/pay estimates etc.
- 5) Township will manage the construction engineering for the utility relocation only – IDRs, Pay Qtys etc. This will likely be done on AASHTOware software and I believe is cloud based, so the Twp's consultant would be provided access.
- 6) MDOT physically processes payment etc. to the Contractor.

For the project to move forward, RCOC need have EGLE permits in hand by June 1st leaving us roughly three months to complete the design and specifications, and to get through permit reviews through OCWRC and EGLE. As OCWRC is our local contractor I expect that review to go quickly. ELGE will take longer so we would need to allow as much time as possible for their review.

Township cost for the sewer project is estimated at \$360,168.00. I have attached our engineer's estimate. I have sent the information on the project to Stantec to be included in the sewer rate study but we have not been able to meet due to scheduling on both sides. There is a possibility that the sewer enterprise could fund the project. This will likely effect the rates and the CIP.

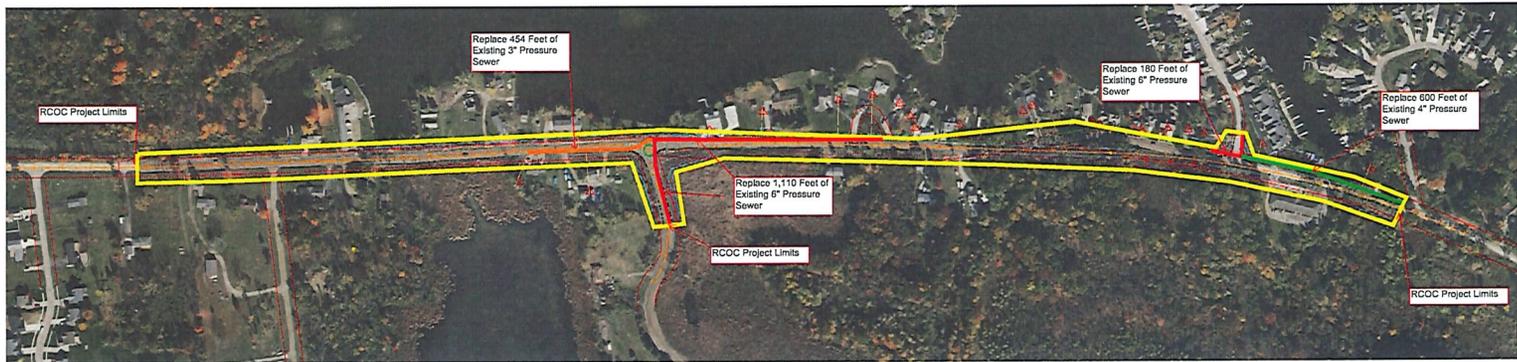
For the project to move forward I will need approval from the Township Board on the DLZ Engineering Proposal attached in the amount not to exceed \$141,000. I will need approval for the remaining 20% local match estimated at \$219,168.00 that would be part of a funding agreement between the RCOC and Township.

Please feel free to contact me if you have any questions.

A handwritten signature in black ink that reads "Aaron Potter". The signature is written in a cursive style with a large, prominent initial "A".

DPS Director
Charter Township of White Lake

LEGEND	
San pipe removal, 1.5" grinder pump service line	
San pipe removal, 3" HDPE SDR-11	
San pipe removal, 4" HDPE SDR-11	
San pipe removal, 6" HDPE SDR-11	
Existing sanitary	
Grinder Pump	



CHARTER TOWNSHIP OF WHITE LAKE
PONTIAC LAKE ROAD - SANITARY SEWER REPLACEMENTS

Preliminary Cost Opinion By: Mike Leuffgen, DLZ
Date: 2/26/2026

PPRESSURE SEWER SYSTEM

Item No.	Description	Unit	Quantity	Unit Price	Item Price
Bypass Piping Installation #1 (Pontiac Lake near Kingston Road)					
1	4" Line Stop Installation	EA	1	\$ 10,000.00	\$ 10,000.00
2	4" Bypass Piping Connection	EA	1	\$ 10,000.00	\$ 10,000.00
3	6" Line Stop Installation	EA	2	\$ 12,000.00	\$ 24,000.00
4	6" Bypass Piping Connection	EA	2	\$ 12,000.00	\$ 24,000.00
5	4" Bypass Pipe	LF	650	\$ 55.00	\$ 35,750.00
6	6" Bypass Pipe	LF	240	\$ 75.00	\$ 18,000.00
7	Temporary Service Lead Connection	EA	6	\$ 6,500.00	\$ 39,000.00
8	Testing/Commissioning	LS	1	\$ 7,500.00	\$ 7,500.00
Bypass #1 Sub Total					\$ 168,250.00
Bypass Piping Installation #2 (Pontiac Lake near Fisk Road)					
1	6" Line Stop Installation	EA	2	\$ 12,000.00	\$ 24,000.00
2	6" Bypass Piping Connection	EA	2	\$ 12,000.00	\$ 24,000.00
3	2" Bypass Pipe	LF	480	\$ 50.00	\$ 24,000.00
4	6" Bypass Pipe	LF	1150	\$ 75.00	\$ 86,250.00
5	Temporary Service Lead Connection	EA	8	\$ 6,500.00	\$ 52,000.00
6	Testing/Commissioning	LS	1	\$ 7,500.00	\$ 7,500.00
Bypass #2 Sub Total					\$ 217,750.00
Low Pressure Sanitary Sewer Installation					
1	3 Inch HDPE DR11 Pressure Sewer	LF	454	\$ 80.00	\$ 36,320.00
2	4 Inch HDPE DR11 Pressure Sewer	LF	600	\$ 90.00	\$ 54,000.00
3	6 Inch HDPE DR11 Pressure Sewer	LF	1290	\$ 110.00	\$ 141,900.00
4	Branch Flushing Connection, 3-Way	EA	2	\$ 30,000.00	\$ 60,000.00
	Terminal Flushing Connection	EA	1	\$ 25,000.00	\$ 25,000.00
	Re-Instate Sanitary Sewer Service Lead	EA	14	\$ 6,500.00	\$ 91,000.00
4	Traffic Control	LS	1	\$ 30,000.00	\$ 30,000.00
5	Restoration (3" topsoil seed & mulch)	SQ YD	3500	\$ 16.00	\$ 56,000.00
6	Restoration (Driveways)	SQ YD	400	\$ 185.00	\$ 74,000.00
7	Audio Video Recording	LS	1	\$ 5,000.00	\$ 5,000.00
8	Soil Erosion Inspection Permit	Allow	1	\$ 5,000.00	\$ 5,000.00
9	Oakland County Road Commission Permit	Allow	1	\$ 5,000.00	\$ 5,000.00
10	Material Testing	Allow	1	\$ 25,000.00	\$ 25,000.00
11	OCWRC Permit Fees	Allow	1	\$ 2,000.00	\$ 2,000.00
Sewer Installation Sub Total					\$ 610,220.00
Construction Costs Including Bypass Installations					\$ 996,220.00
Contingency(10%)					\$ 99,622.00
Total Construction Cost					\$ 1,095,842.00



Connect. Build. Thrive.

March 4, 2026

Mr. Rik Kowall
Township Supervisor
Charter Township of White Lake
7525 Highland Road
White Lake, MI 48383

**Re: Charter Township of White Lake
Pontiac Lake Road – Sanitary Sewer Replacement**

Dear Mr. Kowall:

DLZ Michigan, Inc. (DLZ) is pleased to submit this proposal to White Lake Township (TOWNSHIP) for professional engineering services related to the relocation and replacement of sanitary sewer infrastructure impacted by the proposed Pontiac Lake Road improvements, including construction of a roundabout at Pontiac Lake Road and Fisk Road.

BACKGROUND

The Road Commission for Oakland County (RCOC) is planning improvements to Pontiac Lake Road between Arlington Road and Margie Drive. The project aims to re-align some areas of Pontiac Lake Road and install a roundabout at the intersection of Pontiac Lake Road and Fisk Road. DLZ attended a meeting with the RCOC on 2/17/2026 and were informed of some conflicts with the proposed road work and the existing sanitary sewer. The conflicts include the location of existing sanitary sewer cleanout structures that will fall within the proposed roundabout limits. This is not desirable for maintenance access. Furthermore, the construction plans show a cut in grade which results in a lack of sufficient cover over the existing sewer pipes to prevent freezing.

Based on preliminary drawings provided by RCOC, DLZ anticipates replacement of approximately 2,400 linear feet of low-pressure sanitary sewer. Because this is an active low-pressure sanitary sewer system serving multiple residences, temporary bypass pumping and service switchover will be required during construction. This proposal is for professional design and construction engineering services related to the relocation of impacted sanitary sewer piping and appurtenances. DLZ understands that plans prepared under this proposal will be included in RCOC’s bid set for the Pontiac Lake Road improvements. RCOC has indicated a desire to begin construction on this project in fall of 2026.

This project ensures continued reliable sanitary sewer service to residents while accommodating the roadway improvements. Coordination between agencies and proactive bypass planning will be critical to minimizing service disruptions.

PROPOSAL

The following agreement between DLZ and the TOWNSHIP is separate and distinct from any other agreement between DLZ and the TOWNSHIP.



SCOPE OF SERVICES – DESIGN ENGINEERING

- DLZ will meet with representatives of White Lake TOWNSHIP to verify the scope of the project and to gather input on the proposed sanitary sewer replacements.
- DLZ will rely upon roadway design information and base mapping provided by RCOC. DLZ is not responsible for errors or omissions in information provided by others.
- DLZ will perform limited topographic survey to tie in existing sanitary sewer locations as toned and flagged by the TOWNSHIP.
- Once the major components of the proposed sanitary sewer replacement have been shown on plan and profile sheets, DLZ will meet with the TOWNSHIP to review all aspects of the preliminary design.
- DLZ will prepare the required Special Provisions for the sanitary sewer replacement project for incorporation into the RCOC bid set.
- DLZ will prepare and submit OCWRC and EGLE permits for the sanitary sewer installation. **This agreement does not include application fees for permits.**
- Based on the final plans, DLZ will prepare estimates of probable costs for the proposed sanitary sewer improvements.
- DLZ will conduct a final review meeting with the TOWNSHIP and RCOC.
- DLZ will attend the RCOC pre-bid meeting to answer contractor questions related to the sanitary sewer portion of the project.

SCOPE OF SERVICES – CONSTRUCTION ENGINEERING

Resident Inspection

Resident inspection services are limited to observation of sanitary sewer-related construction activities only and do not include oversight of roadway, drainage, or other utility construction unless specifically authorized in writing. Inspection services are estimated at 600 hours based on a 10-week construction schedule and an average of 60 hours per week of sewer-related activity. Construction duration for sanitary sewer work is assumed to be 10 weeks. Extension of the construction schedule beyond this duration will require additional compensation for inspection and contract administration services.

DLZ's role during bypass operations is limited to observation for general conformance with the Contract Documents. The Contractor remains solely responsible for means, methods, sequencing, and continuous operation of the bypass system.

Contract Administration

DLZ understands that primary Contract Administration for this project will be carried out by Road Commission for Oakland County or their designated agent. DLZ's function in this regard will be more limited than a typical Township led project and we anticipate our role to be in support of the sanitary sewer work and not related to the overall Road Improvements. Responsibilities and obligations are to include the following:

- DLZ will coordinate with RCOC regarding utility construction and inspection.
- DLZ will advise and consult with TOWNSHIP and RCOC during the construction phase of the project.
- DLZ will attend Project Meetings. Due to the anticipated construction timeline of 10 weeks, project meetings are anticipated to be limited to 5 meetings totaling approximately 15 hours.



- DLZ will make recommendations upon request of TOWNSHIP or RCOC, on claims relating to the execution and progress of the construction work.
- DLZ will review shop drawings, samples, and other submittals of the Contractor(s), for general conformance to the design concept of the Project and for general compliance with the Contract Documents.
- Based on on-site observations and on review of Contractor(s) applications for payment and the accompanying data and schedules, DLZ will recommend to RCOC amounts owing to the Contractor for sanitary sewer work.
- DLZ will provide input on change orders related to the sanitary sewer portion of the project, if applicable.
- DLZ will handle complaints and refer them to the RCOC and Contractor(s) for a disposition.
- DLZ will conduct a Final Inspection and issue a recommendation to RCOC regarding Final Payment for sanitary sewer work.

As-Built Preparation

DLZ will measure the locations of the constructed improvements and will submit As-Built Drawings as CAD files and in pdf format containing such surveyed measurements, to TOWNSHIP, no later than 120 days after the date of Substantial Completion of such improvements.

GIS Services

DLZ will update the Township's GIS Network with revised sanitary sewer layer information per the surveyed measurements.

Material Testing Services

DLZ will review Material Testing reports provided by RCOC to confirm the sewer utility is constructed in accordance with the design drawings and associated specifications. This proposal fee does not include Materials and Testing Services costs.

RESPONSIBILITIES OF TOWNSHIP

- The TOWNSHIP will provide access to all sites, drawings, and system information necessary to perform the work, as needed.
- The TOWNSHIP will designate an individual to be the primary contact person to facilitate the project.
- The TOWNSHIP will attend all necessary meetings and assist with the coordination and development of the project.
- The TOWNSHIP will facilitate or provide toning and flagging of the existing sanitary sewer system for DLZ to GPS locate and tie that information into the topographic survey information provided by RCOC.

ASSUMPTIONS

- DLZ assumes that topographic survey information for the project areas will be provided by RCOC
- DLZ assumes that geotechnical information for the project areas will be made available by RCOC



ADDITIONAL SERVICES

Items considered to be additional services and not included within the scope of this Letter Agreement include but are not limited to:

- Additional permitting fees and requirements.
- Site visits in addition to those noted within the scope of work.
- Hydraulic Modeling.
- Soil Erosion Control plans as those should be part of the RCOC plan set.
- Geotechnical investigation - DLZ assumes geotechnical information provided by RCOC is sufficient for design. Additional subsurface investigation or redesign resulting from differing site conditions is not included in this proposal.

TERMS AND CONDITIONS

The Standard Terms and Conditions, as set forth as attached Exhibit A, are incorporated here into and made a part of this Proposal. The Client referred to in the Standard Terms and Conditions means The Charter Township of White Lake.

SERVICE FEE

The proposed fee for this project is based on the understanding that the plans received from RCOC are in a relatively final state as construction is anticipated this fall. As such, DLZ assumes there will be no substantive changes to the proposed road layout.

DLZ proposes to perform the Design Engineering services described herein for a not-to-exceed fee of \$60,000, based on the estimated hours and current White Lake Township Rate Schedule.

Construction Engineering services are estimated at 600 inspection hours plus associated contract administration and staking services, for a not-to-exceed fee of \$81,000, based on the same rate schedule.

FEE SUMMARY:

Design Engineering	\$60,000.00
Construction Engineering/Inspection Services	\$ 81,000.00
Total Not to Exceed Amount	\$141,000.00

The following costs are not included in this proposal:

- Permit application fees
- Third-party materials testing services
- Contractor standby or delay claims
- Additional bypass system redesign due to unforeseen conditions
- Additional services resulting from plan revisions required by RCOC after final submittal



If you approve and accept this Letter Agreement, please sign, date, and return one copy for our records. Should you prefer to issue a Purchase Order as your official acceptance, we request that you reference this Proposal in your paperwork.

We look forward to continuing to support the Township on this important infrastructure improvement. This offer will remain open for acceptance for 60 days. If for any reason you should have questions, please do not hesitate to call Mike Leuffgen at (248) 836-4057.

Sincerely,
DLZ MICHIGAN, INC.

Manoj Sethi, PE
President

Approved and Accepted

Signature _____

Printed Name _____

Title _____

Date _____

Attachments:

Exhibit A: Standard Terms and Conditions

Exhibit B: Insurance Requirements

EXHIBIT A

DLZ'S STANDARD TERMS AND CONDITIONS FOR CERTAIN WHITE LAKE TOWNSHIP PROJECTS

1. **INVOICES AND PAYMENT:** Unless the parties have agreed otherwise, DLZ will submit monthly invoices to CLIENT for services performed in the prior month. Except to the extent CLIENT disputes in good faith all or a portion of a DLZ invoice, CLIENT will pay DLZ the invoiced amount within thirty (30) days from the date of the invoice; and, in default of such payment, agrees to pay all cost of collection, including reasonable attorney's fees, regardless of whether legal action is initiated. Invoiced amounts not in dispute will accrue interest at eight percent (8%) per annum after they have been outstanding for over thirty (30) days. If an invoiced amount not in dispute remains unpaid sixty (60) days after the date of the invoice, DLZ may, upon giving seven (7) days written notice of its intent to do so, suspend all project services until all unpaid invoiced amounts not in dispute are paid in full. If an invoice remains unpaid ninety (90) days after the date of the invoice, DLZ may, upon giving seven (7) days written notice of its intent to do so, declare CLIENT to be in breach of this agreement.
2. **CONSTRUCTION SERVICES:** If DLZ's scope of services includes providing professional services during the project's construction phase, DLZ will not have control over or be responsible for contractor means, methods, techniques, sequences, procedures, or schedule, or the contractor's failure to comply with the construction contract documents or applicable laws, ordinances, rules or regulations. If DLZ provides construction inspection or observation services, DLZ will report to CLIENT all contractor deviations from the construction contract documents that come to DLZ's attention. However, such services are solely intended to enable DLZ to maintain familiarity with, and keep CLIENT informed of, the general progress and quality of the contractor's work, and not to require DLZ to perform exhaustive inspections of contractor work for its compliance with the construction contract documents, which shall remain solely contractor's responsibility.
3. **CHANGES IN REQUIREMENTS:** In the event additional services are required due to a change, after the date of this agreement, in CLIENT's requirements, or in the applicable law, standards, or governmental requirements or policies, DLZ will be entitled to additional compensation for such additional services.
4. **SURVEY STAKING:** If DLZ's scope of services includes survey layout, DLZ will not be responsible for subsequent disturbances of its layout except to the extent caused by DLZ or persons for whom it is responsible.
5. **MISCELLANEOUS EXPENSES:** Except to the extent otherwise provided in this agreement, CLIENT is responsible for all third-party fees and charges including, without limitation, fees and charges for inspections, zoning or annexation applications, assessments, soils engineering, soils testing, aerial topography, permits, rights-of-entry, bond premiums, title company charges, blueprint and reproduction costs, and all other third-party fees and charges.
6. **CHANGE OF SCOPE:** DLZ's scope of services in this agreement is based on facts known at the time of execution of this agreement, including, if applicable, information supplied by CLIENT. DLZ will promptly notify CLIENT in writing of any perceived changes to its scope of services required by new information or by persons or circumstances beyond DLZ's control, and the parties shall negotiate modifications to this agreement before DLZ begins performance of the revised scope.
7. **SAFETY:** DLZ will take reasonable steps to protect the safety of its employees, and to perform its services in a safe manner. DLZ is not responsible for project safety other than with regard to its own services.
8. **REUSE OF PROJECT DELIVERABLES:** CLIENT's use of any project documents or DLZ deliverables, including electronic media, for any purpose other than that for which such documents or deliverables were originally prepared, or alteration of such documents or deliverables without written verification or adaption by DLZ for the specific purpose intended, will be at CLIENT's sole risk.
9. **OPINIONS OF CONSTRUCTION COST:** Any opinion of construction costs prepared by DLZ is supplied for the general guidance of the CLIENT only. Since DLZ has no control over competitive bidding or market conditions, DLZ cannot guarantee the accuracy of such opinions as compared to contractor bids or actual cost to CLIENT.
10. **INSURANCE:** DLZ will maintain insurance consistent with the requirements on the attached Exhibit C. If DLZ is providing construction phase services, CLIENT agrees to require its contractor to include DLZ as an additional insured on the contractor's General Liability and Automobile Liability insurance policies, and DLZ's above-listed coverage will be excess over the contractor's coverage, which will be primary.
11. **CONSEQUENTIAL DAMAGES:** Neither party will be liable to the other for consequential, special, incidental, indirect, liquidated, or punitive damages.
12. **LIABILITY:** No employee of DLZ or of its parent, subsidiary, or affiliated companies will be personally liable to CLIENT.
13. **DISPUTES:** Any claim or controversy arising out of or relevant to this agreement, or the breach thereof, shall be settled in a court of competent jurisdiction in the state where the Project is located. Such court shall have personal jurisdiction over DLZ and CLIENT. This Agreement is governed by, and interpreted in accordance with, the laws of the state where the Project is located, without regard to conflict of law principles. DLZ and CLIENT each agrees to, and hereby does, voluntarily waive its right to a jury trial for any dispute arising between them regarding DLZ's services or this Agreement.
14. **DELAYS:** DLZ is not responsible for delays caused by persons or circumstances for which DLZ is not responsible.
15. **SHOP DRAWINGS:** If DLZ's scope of services includes reviewing shop drawings, such reviews are solely with regard to their general conformance with the design concept, and not for the purpose of reviewing or approving their accuracy, completeness, dimensions, quantities, constructability, compatibility with other construction components, or compliance with the requirements of the construction contract documents, all of which remain the contractor's responsibility. DLZ is not responsible for reviewing or approving the contractor's safety precautions or construction means, methods, sequences or procedures.
16. **ACCEPTANCE:** Both parties will consider DLZ's initiation of services prior to execution of this agreement in order to accommodate CLIENT, at CLIENT's request, as CLIENT's formal acceptance of all of the terms and conditions in this agreement.
17. **STANDARD OF CARE:** DLZ will perform its services with the care and skill ordinarily exercised by members of its profession currently practicing under similar conditions in the same locale. DLZ does not make, and expressly disclaims, any other warranties, express or implied, relating to its services including, without limitation, warranties of merchantability and fitness for a particular purpose. DLZ shall be entitled to rely on all CLIENT-provided information except to the extent otherwise stated in the agreement.

EXHIBIT B

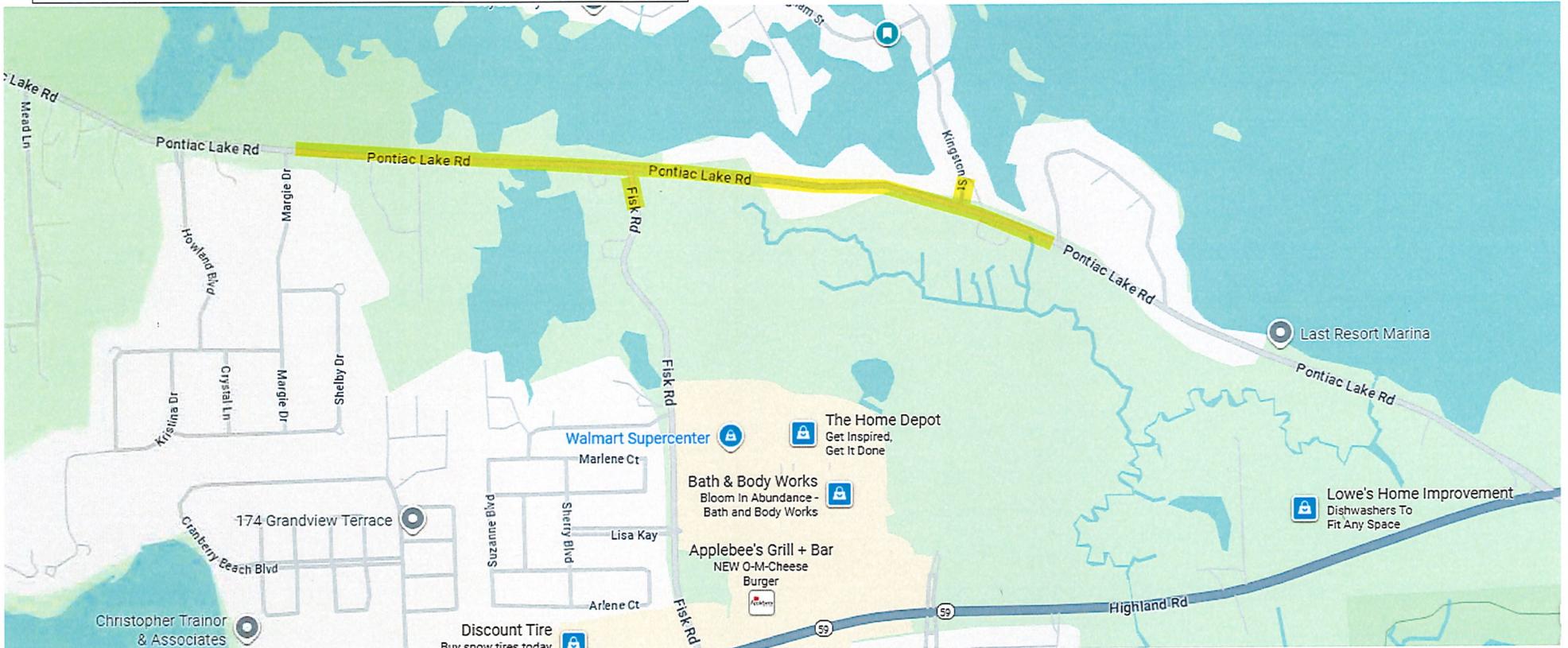
Insurance. DLZ shall not commence work under this contract until they have obtained the insurance required under this paragraph and shall keep such insurance in force during the entire life of this contract. All coverage shall be with insurance companies licensed and admitted to do business in the State of Michigan and acceptable to the Client. The requirements below should not be interpreted to limit the liability of DLZ. All deductibles and SIR's are the responsibility of DLZ.

- Professional Liability in an amount not less than \$2,000,000 per occurrence and \$2,000,000 general aggregate. If this policy is claims made form, then the DLZ shall be required to keep the policy in force, or purchase "tail" coverage, for a minimum of 3 (three) years after the termination of this contract.
- Worker's Compensation Insurance including Employers' Liability Coverage, in accordance with all applicable statutes of the State of Michigan.
- Commercial General Liability Insurance on an "Occurrence Basis" with limits of liability not less than \$1,000,000 per occurrence and \$2,000,000 aggregate.
- Automobile Liability including Michigan No-Fault Coverages, with limits of liability not less than \$1,000,000 per occurrence, combined single limit for Bodily Injury, and Property Damage. Coverage shall include all owned vehicles, all non-owned vehicles, and all hired vehicles.
- Additional Insured: Commercial General Liability and Automobile Liability as described above shall include an endorsement stating the Client shall be listed as additional insured. It is understood and agreed by naming the Client as additional insured, coverage afforded is considered primary and any other insurance the Client may have in effect shall be considered secondary and/or excess.
- Cancellation Notice: All policies, as described above, shall include an endorsement stating that it is understood and agreed Thirty (30) days, Ten (10) days for non-payment of premium, Advance Written Notice of Cancellation, shall be sent to Client.
- Proof of Insurance Coverage: DLZ shall provide the Client at the time that the contracts are returned for execution, a Certificate of Insurance as well as the required endorsements. In lieu of required endorsements, if applicable, a copy of the policy sections where coverage is provided for additional insured and cancellation notice would be acceptable.
- If any of the above coverages expire during the term of this contract, the DLZ shall deliver renewal certificates and endorsements to the Client at least ten (10) days prior to the expiration date.

Pontiac Lake Road from Margie to east of Kingston

White Lake Township
Section 13 and 14
Town 3 North, Range 8 East
Oakland County, Michigan

Major Work: Paving of gravel road, peat excavation and backfill, roadway realignment, roundabout construction at Fisk



RCOC Project Number: 56662
 Project Name: Pontiac Lake Road gravel road paving
 Project Limits: Margie to East of Kingston
 City/Township: White Lake Township

Utility Conflict Matrix Created/Revised By: Fishbeck
 Date Created: July 15, 2025
 Reviewed By:
 Review Date:

Utility Owner and/or Contact Name	Conflict ID	Sheet No.	Utility Type	Size and/or Material	Utility Conflict Description	Start Station	Start Offset	End Station	End Offset	Comments	SUE Level Needed	Test Hole	Utility Coordination Clause	Estimated Resolution Date Needed	Resolution
CONSUMERS ENERGY (GAS)															
CONSUMERS ENERGY	CE-1A		Natural Gas	4" S-MP	Pr Storm Sewer	14+48	13 L			Existing CB in same location.	n/a		Yes		Confirm gas location and depth
CONSUMERS ENERGY	CE-1B		Natural Gas	4" S-MP	Pr Storm Sewer	19+52	25 R			Proposed storm crossing					Confirm gas location and depth
CONSUMERS ENERGY	CE-2		Natural Gas	4" S-MP	Pr Storm Sewer	20+36	7 L			Pr storm crossing					Confirm gas location and depth
CONSUMERS ENERGY	CE-3		Natural Gas	4" S-MP	Pr Storm Sewer	22+81	11 L	24+58	14 L	Potential curb and gutter here with CB's					Confirm gas location and depth
CONSUMERS ENERGY	CE-3A		Natural Gas	4" S-MP	Pr Storm Sewer	23+25	0	28+00	0	Heavy duty section at wetland area. Potential impact with excavation					Confirm gas location and depth
CONSUMERS ENERGY	CE-4		Natural Gas	2"/4" S-MP	Pr Storm Sewer	34+46	2 L	32+46	4 R	Pr storm crossings					Confirm gas location and depth
CONSUMERS ENERGY	CE-5		Natural Gas	2" S-MP	Pr Storm Sewer	83+33	20 L			Culvert end section and ditch grading conflict					Confirm gas location and depth
CONSUMERS ENERGY	CE-6		Natural Gas	4" S-MP	Pr Storm Sewer	33+79	32 L			Culvert end section and ditch grading conflict					Confirm gas location and depth
CONSUMERS ENERGY	CE-7		Natural Gas	4" S-MP	Pr Storm Sewer	34+66	28 L			Near Pr culvert					Confirm gas location and depth
CONSUMERS ENERGY	CE-8		Natural Gas	4" S-MP	Pr Storm Sewer	35+55	23 L			Culvert end section and ditch grading conflict					Confirm gas location and depth
CONSUMERS ENERGY	CE-9		Natural Gas	2"/4" S-MP	Pr Storm Sewer	41+13	15 L			Pr storm crossing					Confirm gas location and depth
CONSUMERS ENERGY	CE-10		Natural Gas	4" S-MP	Pr Storm Sewer	51+30	36 L			Pr storm crossing					Confirm gas location and depth
CONSUMERS ENERGY	CE-11		Natural Gas	4" S-MP	Pr Storm Sewer	51+30	36 L			Pr storm crossing and cut in road 8 inches					Confirm gas location and depth
CONSUMERS ENERGY	CE-12		Natural Gas	4" S-MP	Pr Storm Sewer	53+96	17 L			Pr storm crossing and cut in road 2 feet					Confirm gas location and depth
CONSUMERS ENERGY	CE-13		Natural Gas	4" S-MP	Pr Storm Sewer	55+45	15 L			Pr storm crossing and cut in road 4 inches					Confirm gas location and depth
CONSUMERS ENERGY	CE-14		Natural Gas	4" S-MP	Pr Storm Sewer	58+18	23 L			Culvert end section and ditch grading conflict					Confirm gas location and depth
ATT															
ATT	AT-1		Buried Communications		Pr Storm Sewer	21+64	23 L			Pr storm culvert crossing manhole	n/a		Yes		Look if storm can be adjusted. Confirm ATT location
	AT-2		Buried Communications		Pr Storm Sewer	22+36	24 L			Pr storm culvert near UG					Look if storm can be adjusted. Confirm ATT location

Utility Owner and/or Contact Name	Conflict ID	Sheet No.	Utility Type	Size and/or Material	Utility Conflict Description	Start Station	Start Offset	End Station	End Offset	Comments	SUE Level Needed	Test Hole	Utility Coordination Clause	Estimated Resolution Date Needed	Resolution
	AT-3		Buried Communications		Pr Storm Sewer	28+11	28 R			Pr storm culvert crossing UG					Confirm ATT location
	AT-4		Buried Communications		Road	28+17	0			Pr road construction. Depth of excavation a concern					Confirm ATT location
	AT-5		Buried Communications		Road	29+92	0			Pr road construction. Depth of excavation a concern					Confirm ATT location
	AT-6		Buried Communications		Road	32+48	35 R			Boxes in the Pr road					Relocate
	AT-7		Buried Communications		Pr Storm Sewer	32+25	16 L			Pr storm crossings					Confirm ATT location
	AT-8		Overhead Communications		Road	33+62	1 L			OH Pole in Pr road					Relocate
	AT-9		Buried Communications		Road ditch grading	83+51	34 L			Potential conflict with excavation for ditch grading					Confirm ATT location
	AT-10		Overhead Communications		Pr Storm Sewer	49+01	23 L			OH Lines cross road. Potential conflict with construction					Relocate
	AT-11		Overhead Communications		Road	53+24	14 R			OH Pole in Pr road					Relocate

Comcast

Utility Owner and/or Contact Name	Conflict ID	Sheet No.	Utility Type	Size and/or Material	Utility Conflict Description	Start Station	Start Offset	End Station	End Offset	Comments	SUE Level Needed	Test Hole	Utility Coordination Clause	Estimated Resolution Date Needed	Resolution
Comcast	CO-X		Communications	Aerial - colocate with DTE	DTE Poles in proposed roadway	31+50	20 L	32+00	20 L	Same location as DT-1	n/a		Yes		Determine relocation requirements and options
Comcast	CO-X		Communications	Underground (only at Kingston)	Excavation to lower the road may be in conflict	54+30	30 L	54+45	25 R	Same location as DT-2	n/a		Yes		Confirm depth and location

Crown Castle

Utility Owner and/or Contact Name	Conflict ID	Sheet No.	Utility Type	Size and/or Material	Utility Conflict Description	Start Station	Start Offset	End Station	End Offset	Comments	SUE Level Needed	Test Hole	Utility Coordination Clause	Estimated Resolution Date Needed	Resolution
Crown Castle	CC-1		Communications	Aerial Fiber - colocate with DTE	Some poles may require relocation	30+85	20 L	33+23	195 R	Pr storm sewer crossing and roadway construction conflicts	n/a		Yes		Confirm location
Crown Castle	CC-1		Communications	Underground Fiber	Excavation for peat removal or roadway grading may be in conflict	30+85	20 L	33+23	195 R	Pr storm sewer crossing and roadway construction conflicts	n/a		Yes		Confirm location

DETROIT EDISON - ELECTRIC

Utility Owner and/or Contact Name	Conflict ID	Sheet No.	Utility Type	Size and/or Material	Utility Conflict Description	Start Station	Start Offset	End Station	End Offset	Comments	SUE Level Needed	Test Hole	Utility Coordination Clause	Estimated Resolution Date Needed	Resolution/Contractor/Owner Action
DTE	DT-1		Overhead Electric	Unknown	Poles in proposed roadway	31+50	20 L	32+00	20 L		n/a		Yes		Determine relocation requirements and options
DTE	DT-2		Underground Electric (just east of Kingston only)	Unknown	Excavation to lower the road, may be in conflict	54+30	30 L	54+45	25 R		n/a		Yes		Confirm depth and location

Utility Owner and/or Contact Name	Conflict ID	Sheet No.	Utility Type	Size and/or Material	Utility Conflict Description	Start Station	Start Offset	End Station	End Offset	Comments	SUE Level Needed	Test Hole	Utility Coordination Clause	Estimated Resolution Date Needed	Resolution
Sanitary Sewer															
Utility Owner and/or Contact Name	Conflict ID	Sheet No.	Utility Type	Size and/or Material	Utility Conflict Description	Start Station	Start Offset	End Station	End Offset	Comments	SUE Level Needed	Test Hole	Utility Coordination Clause	Estimated Resolution Date Needed	Resolution/Contractor/Owner Action
White Lake Township	SA-1		Forcemain Sanitary	6" HDPE SDR-11 (4" on Kingston)	Deep peat excavation adjacent to force main					Fisk Intersection - Peat excavation at wetland/ edge of existing SE edge roadway	n/a		Yes		Determine if relocation required
White Lake Township	SA-2		Forcemain Sanitary	6" HDPE SDR-11 (4" on Kingston)	Grade Raise over force main					Fisk Intersection - Road raised 5 feet	n/a		Yes		Determine if relocation required
White Lake Township	SA-3		Forcemain Sanitary	6" HDPE SDR-11 (4" on Kingston)	Grade lowered over force main					Kingston Intersection - Road Cut 1.7 feet	n/a		Yes		Confirm depth, relocate if minimum depth not maintained