

December 8, 2025

Mr. Justin Stadt, Superintendent
 Georgetown Township
 1515 Baldwin Street
 Jenison, MI 49429

RE: **Proposal for Engineering Services
 Orphan Drain Analysis**

Dear Mr. Stadt:

Prein&Newhof is pleased to present this proposal for engineering services for the review of your orphan drains relative to the roads you are paving. The following proposal presents our understanding of the project and our proposed scope of services, schedule and budget.

Background

Georgetown Charter Township is looking for Prein&Newhof to help review the condition of the orphan drain storm sewer systems under the roads that they are looking to repave in 2027. By reviewing the condition of these drains, Georgetown Charter Township will then understand if the drain needs repair and should be established as a county drain prior to the road paving. The following roads are what Georgetown Charter Township is considering paving (split based on what Section they are located in the Township). Prein&Newhof reviewed each of these roads for both sanitary sewer and storm sewer infrastructure. In addition, for storm sewer infrastructure, Prein&Newhof reviewed whether this infrastructure is an established county drain or if it would be considered an orphan system.

Section 3 Streets and Drains

Streets	Location	Has Stm. Swr?	Has San. Swr?	Drain Status -
Bosworth Drive	Sandburr Drive to Cottonwood Drive	Yes	Yes	Orphan - Future Bosworth Farm Drain
Case Street	Victor Avenue to Cedarview Avenue	Yes	Yes	Orphan - Future Bosworth Farm Drain
Cedarview Avenue	Greenwoods Drive to Crabtree Lane	Yes	Yes	Orphan - Future Bosworth Farm Drain and Ver Lee Drain
Cotton Court	Cotton Drive south to Cul-De-Sac	Yes	Yes	Established - Cotton Heights Drain
Cotton Drive	Cottonwood Drive east to Cul-De-Sac	Yes	Yes	Established - Cotton Heights Drain
Crabtree Lane	Bosworth Drive to Cedarview Avenue	Yes	Yes	Orphan - Future Bosworth Farm Drain

Greenwoods Drive	Cedarview Avenue to Cottonwood Drive	Yes	No	Orphan - Future Ver Lee Drain
Norman Drive	Cedar Lake Drive to Victor Avenue	Yes	Yes	Orphan - Future Cedar Lake South Drain
Pleasant Wood Drive	Cedarview Avenue to Cottonwood Drive	Yes	No	Orphan - Future Ver Lee Drain
Sandburr Drive	Cedarview Avenue to Bosworth Drive	No	Yes	Orphan - Future Bosworth Farm Drain
Victor Avenue*	Norman Drive to Fillmore Street	Yes	No	Orphan - Future Bosworth Farm Drain

*Victor Avenue only includes a small storm sewer system that crosses Victor Avenue south of Case Street. Other infrastructure in these areas includes roadside ditches and driveway culverts that could eventually be established from an orphan system to a county drain system (future Westrate Drain) if there were flooding issues.

Section 15 Streets and Drains

Streets	Location	Has Stm. Swr?	Has San. Swr?	Drain Status -
21st Avenue	Pine Aire Street to Pine Street	No*	Yes	Orphan
21st Avenue	Pine Street to Baldwin Street	Yes	Yes	Orphan - Future Jenison Pine Estates Drain
Cherry Avenue	Pine Street to Baldwin Street	No*	Yes	Orphan
Cherry Avenue	Tyler Street to Pine Street	Yes	Yes	Orphan - Future Jenison Pine Estates Drain
Englehurst Court	Englehurst Drive north to Cul-De-Sac	Yes	No	Established - Ridgewood Chapter 20 Drain
Pine Aire Court	Pine Aire Street north to Cul-De-Sac	Yes	Yes	Orphan - Future Jenison Pine Estates Drain
Pine Aire Street	Cherry Avenue to 21st Avenue	Yes	Yes	Orphan - Future Jenison Pine Estates Drain
Pine Street*	22nd Avenue to 21st Avenue	Yes*	Yes	Orphan – Future Pine Heights Drain
Pinegrove Drive	20th Avenue to Baldwin Street	Yes	Yes	Orphan - Future Pine Grove North Drain and Pine Grove South Drain
Ronson Avenue	Hollyhock Avenue south to Cul-De-Sac	Yes	Yes/No**	Established - Ridgewood Chapter 20 Drain

*21st Avenue, Cherry Avenue, and Pine Street have storm sewer at Baldwin connected and appears to be part of the Baldwin Street Chapter 20 Drain. Other infrastructure in these areas

includes roadside ditches, driveway culverts, and (2) 12” road cross culverts on Pine Street and Cherry Street that appear to be entirely buried. This infrastructure could eventually be established from an orphan system to a county drain system (future Pine Heights Drain) if there were flooding issues.

**Ronson Avenue does not appear to have sanitary sewer in the cul-de-sac.

Section 20 Streets and Drains

Streets	Location	Has Stm. Swr?	Has San. Swr?	Drain Status -
City Ridge Court	City Ridge Drive west to Cul-De-Sac	Yes	Yes	Established - Hunters Meadows Drain
City Ridge Drive	Timothy Drive to City Ridge Court	Yes	Yes	Established – Hunters Meadows and Fieldstone Estates No. 3 Drains
Longtail Court	City Ridge Court to Rosewood Street	Yes	Yes	Established - Hunters Meadows Drain
Rosewood Street	36th Avenue to Longtail Court	Yes	Yes	Established - Hunters Meadows Drain

Section 24 Streets and Drains

Streets	Location	Has Stm. Swr?	Has San. Swr?	Drain Status -
Bliss Court	South Cul-De-Sac to North Cul-De-Sac	Yes	Yes	Orphan – Future Kenowa Lake Estates Drain
Bliss Drive	Port Sheldon Street to Bliss Court	Yes*	Yes	Orphan – Future Blissveldt Drain
Brookside Drive	Eastgate Avenue to Kenowa Avenue	Yes**	Yes	City of Grandville?
Brookwood Court	Brookwood Drive east to Cul-De-Sac	Yes	Yes	Established - Sunny Bliss Chapter 20 Drain
Brookwood Drive	Sunnybrook Drive south to Cul-De-Sac	Yes	Yes	Established - Sunny Bliss Chapter 20 Drain
Eastgate Avenue	Brookside Drive to Ravenswood Street	Yes***	Yes	Orphan – Future Brookside (South?) Drain
Maier Avenue	Sunnybrook Drive to Bliss Drive	Yes	Yes	Established - Sunny Bliss Chapter 20 Drain
Maier Court	Maier Avenue west to Cul-De-Sac	Yes	Yes	Established - Sunny Bliss Chapter 20 Drain

Ravenswood Street	Sunnybrook Drive to Kenowa Avenue	Yes****	Yes	Orphan – Future Brookside (North?) Drain and Established – Sunny Bliss Chapter 20 Drain
Suncrest Avenue	Suncrest Court to Sunnyview Drive	No	Yes	Flows into Sun Bliss Chapter 20 Drain @ Sunnyview Drive
Sunnybrook Drive	Sunnyview Drive north to Cul-De-Sac	Yes	Yes	Established - Sunny Bliss Chapter 20 Drain
Sunnyview Drive	Suncrest Avenue west to Cul-De-Sac	Yes	Yes	Established - Sunny Bliss Chapter 20 Drain

*Bliss Drive only has storm sewer at the Port Sheldon Street and Bliss Drive intersection. Other infrastructure in these areas includes roadside ditches and driveway culverts that could eventually be established from an orphan system to a county drain system (as part of a future Blissveldt Drain or other drain) if there were flooding issues.

**Brookside Drive only has a catch basin at Kenowa Avenue that appears to connect into the storm sewer along Kenowa Avenue. This catch basin and storm sewer should be confirmed with the City of Grandville that they will maintain it.

***Eastgate Avenue only has a small 10” storm sewer located right north of Brookside Drive. See note below for Ravenswood Street regarding orphan drain establishment.

****Ravenswood Street has orphan drain east of the Huizenga Drain (future Brookside [North?] Drain) and established drain west of the Huizenga Drain (Sunny Bliss Chapter 20 Drain). Ideally the orphan drain can be established with the Eastgate Avenue portion as although they are not connected, they both serve the same neighborhood and both outlet into the Huizenga Drain but OCWRC may require two separate drains due to two separate storm sewer outlets.

Prein&Newhof also reviewed the total distance of storm sewer per diameter for each of these orphan drains and what material the storm sewer appears to be per the record drawings. This data was needed to be gathered to help put together the proposal and to obtain pricing from Plumbers Environmental who would be utilized for televising and condition assessment of the storm sewer. The table below provides this information:

Orphan Drain Information

Orphan Drain Name	Length (Ft)*								Material	Year
	10"	12"	15"	18"	21"	24"	30"	Total		
Bosworth Farm*		795	887	974		980		3,636	Conc (C76 CIII)	1962, 1995-1997, 2015
Cedar Lake Southeast*		713						713	Conc (C76 CIII)	1986, 2015
Ver Lee*		1,436	1,772		344			3,552	55% Conc (C76 CIII) and 45% Corr. Steel	1963-1976
Pine Heights		96						96	Unknown (Conc cross culverts?)	1955
Jenison Pines Estates*		2,203	885	1,221	234	339	505	5,387	Suspected Conc (C76-III or C14)	1993-1995
Pine Grove North*		749	655	924				2,328	Conc (C14 and C76-III)	1974
Pine Grove South*, **		919	526	504		457		2,406	Suspected Conc (C76-III or C14)	1978-1981
Bliss*		861	342					1,203	Suspected Conc	1975
Blissveldt		156						156	Conc (C76 CIII)	1963
Brookside North	815	118						933	Unknown (Conc?)	1956
Brookside South*	186							186	Unknown (Conc?)	1956

Total ***1,001*** ***8,046*** ***5,067*** ***3,623*** ***578*** ***1,776*** ***505*** ***20,596***

*All of these drains have portions of their storm sewer that are outside of the right-of-way (drain outlets or backyard inlets) but the majority of these pipes do start from within the road and should thus be televised.

**Approximately 822 feet of 12", 655 feet of 15", and 924 feet of 18" storm sewer are either outside of the road completely or connect into Shadbleu Drive. These sections could not be televised and reviewed as they are outside of the road but if they are televised then the condition of the whole system will be understood.

Scope

We propose to provide the following scope of services:

1. Assemble record drawings providing an exhibit showing storm sewer (with hyperlinked record plans for the storm sewer) in Georgetown Township's ArcGIS Online account
2. Field review of site to determine if any sinkholes are present on the current road.
3. Field review of each orphan drain's outlet to ensure they are functioning properly
4. Coordinate with Plummer's Environmental to televise and clean out the orphan drain storm sewers and review videos and results from Plummer's
5. Generate a report detailing the findings from televising, field review, and recommendations if establishment is needed due to the need for replacement based on the field review/televising.
6. Attend (2) meetings with the Township (project startup and review of the report)

Schedule

If approved by the Township, we anticipate being able to start on this work right away and will coordinate with Plummers Environmental. We anticipate this work taking approximately 3-4 months to complete.

Budget

We propose to do this work under a time and material schedule with an estimated engineering cost of \$22,000.

We also reached out to Plummer's Environmental and shared the orphan drain information with them so that they could provide a budgetary estimate for their work. For some pipes, cleaning will be required prior to televising as sediment or other blockages can prevent the camera from traveling through the pipe. Assuming televising of all pipes and cleaning of approximately 30% of the lines, Plummer's costs will be approximately \$26,000 for televising and \$14,000 for cleaning (total of \$50,000). These costs will increase if more than 30% of the pipes require cleaning and decrease if less than 30% of the pipes require cleaning.

Mr. Justin Stadt
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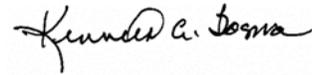
Please let us know if you wish to proceed. Please contact us with any additional thoughts or questions.

Sincerely,

Prein&Newhof



Lucas Timmer, P.E.
Project Manager



Kenneth A. Bosma, P.E.
Team Leader

LJT/ljt

CC: Andy Rienstra, GCT; Ken Bosma, P&N

Enclosures: None