WELCOME

Udora Gravel Roads Upgrade Project Public Information Centre

June 28, 2023

6:00 PM to 8:00 PM

Udora Community Hall
24 Victoria Road, Udora, ON LOC 1L0

Please Sign In





Agenda

6:00PM – 7:00 PM

Presentation

Introduction

Project Status

Background

Common Issues (Road, Drainage & Property)

Northwest Quadrant

Southwest Quadrant

Southeast Quadrant

Northeast Quadrant

7:00PM - 8:00 PM

Question and Answer (To Be Audio Recorded)

You are encouraged to comment on this project by submitting comment sheets.

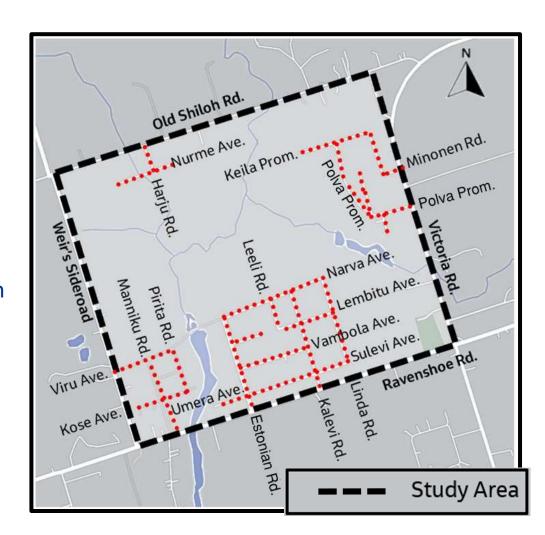
Members of the Public may also request to add their name and contact information to the mailing list to receive all future project communications.

Purpose of the Public Information Centre (PIC)

The Town of Georgina has identified the need to improve the road segments totaling approximately 7 km in length in the Hamlet of Udora. The objective is to upgrade the gravel roads and improve safety ride quality and drainage.

The purpose of this PIC is to present:

- General project status update and information
- Study area/identify and assess alternative solutions
- Solicit public feedback that will be considered in the design
- Next steps

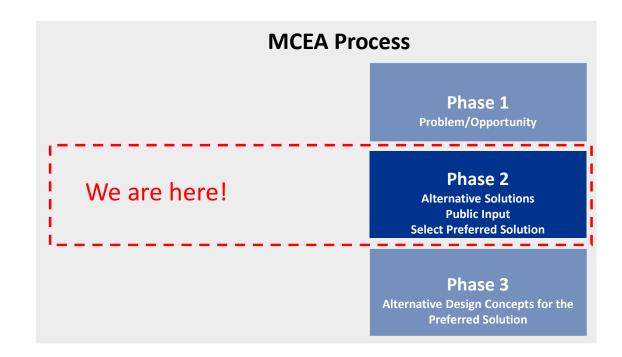


Municipal Class EA Process

This project is being completed as a Schedule A+ Class Environmental Assessment (EA) It will follow Phases 1, 2 and 3 of the Municipal Class EA process

- Public feedback is vital for determining the preferred design
- Opportunity for residents to provide input on alternative solutions

Note: Alternative design shown in this presentation is not final



Project Status Update



Fall 2022 / Winter 2023

Field Investigations, Legal & Topographical Survey, Drilling Geotechnical Boreholes, Site visit Utility Consultation Design Criteria

Winter/Spring 2023

Commencement of the identification of problems and opportunities, identify areas of immediate concerns, evaluation of possible solutions

Spring/Summer 2023

Public Information Center, select preferred solutions based on evaluation criteria

Summer/Fall 2023

Future detailed design and construction is subject to Council direction and approval.

Background Information

1960s

- Plans of Subdivisions approved
- The roads were originally constructed consisting of gravel surface over free-draining, frost susceptible soils
- Original owners did not maintain roads to Town standards required for assumption

2021

- In June, Town of Georgina assumed the ownership of majority of the roads in the Estonian Summer Homes Association and Kova subdivision in Udora. This includes the maintenance of the roads and addressing deficiencies.
- In Fall, Town added 1,200 tonnes of Gran 'A' applied to the main roads

2022

- In June, The Town has identified the need to assess and upgrade forty-eight (48) gravel road segments located within the Hamlet of Udora, totaling approximately 7 km in length.
- In October, Roads Division placed 9,000 tonnes of gravel on the existing roads to improve conditions



Roads Upgrades Project To Date

Fall 2022/ Winter 2023

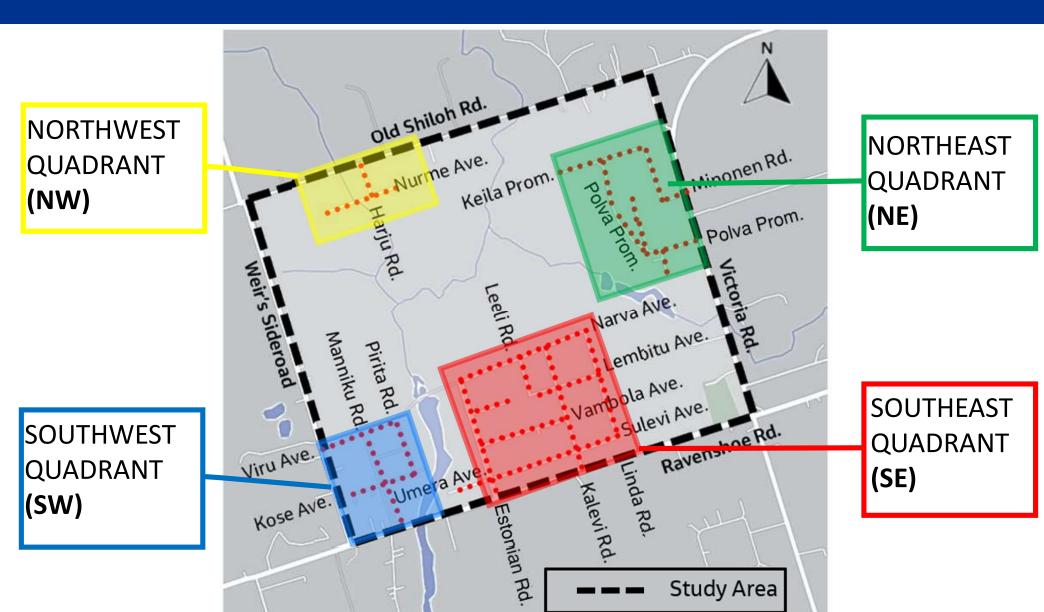
- Jacobs conducted field studies
 - Topographic and legal surveys
 - Utility locates
 - Geotechnical field studies
 - Visual inspections and site walks

Spring 2023

 Jacobs completed desktop study including evaluation of options to determine the preferred stormwater management methodology, determine areas of immediate concerns, short-term and long-term solutions to the problem



Study Area Breakdown



Summary of Road Issues

Type of Issue	Concern	Key Guiding Principles	Alternative Solutions
 insufficient road crown high shoulder existing potholes 	 failure of road to shed water away leading to increased moisture in the road in the spring, ground moisture is highest and freeze-thaw cycle damages the road surface 	 Allow water to drain away from the road Minimize road repair needs 	 Regrade gravel surface to maintain 2-4% cross-slope Fill existing potholes with gravel and compact as required
 poor soil in road base total of 8 distressed areas 	 frost susceptible soil, water can easily penetrate and soak the ground under the road and make the road soft uncompacted gravel surface will washboard easily and will leave loose gravel on the surface 	Safety and functionality	 Top off road gravel and compact as required Remove poor base material under the gravel and rebuild the gravel road
narrow lanesvegetation overgrowth	 vehicles drive in the middle of the road causes wheels tracking on shoulder lack of sight lines for turning movements 	Safety and functionalityTraffic safety	 Maintain non-standard road width with roadside clearing for sightline Widen roadway to standard width
 Small turning radius at intersection 	 turning vehicle wheels track off road damaging the slope and damaging culvert lack of sight lines for turning movements 	Safety and functionalityTraffic safety	 Clear vegetation to increase sightlines Larger turning radius at intersection

Summary of Road Issues

Type of Issue	Concern	Key Guiding Principles	Alternative Solutions
 Lack of turning features at dead ends 	 Difficult access for emergency and large service vehicles Vehicles using private driveways as turnaround facility 	 Safety and functionality Compliance with Town Zoning By- law 500 and policies, and Ontario Building Code 	 Install non-standard turning facility within road property Install standard cul-de-sac with property acquisition
 Disconnected roadway 	Difficult access for emergency and large service vehicles	 Safety and functionality Compliance with Town Zoning By-law 500 and policies, and Ontario Building Code Minimize land acquisition needs 	 Construct through road to connect dead ends within road property Construct turning facility at dead ends

Common Issues Encountered – Poor Soil and Gravel



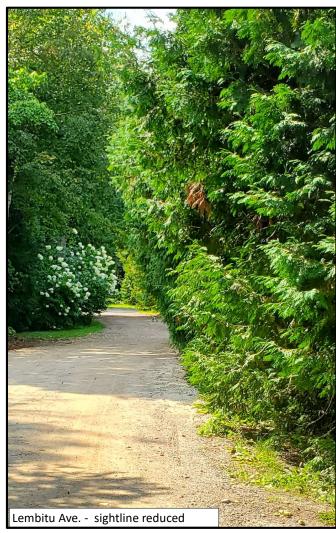




Common Issues Encountered – Overgrowth



Harju Rd. – sightline blocked by overgrowth



Common Issues Encountered – Poor Geometry





Intersection of Estonian Rd and Lembitu Ave. – wheels tracking over shoulder, crushing the culvert



Intersection of Estonian Rd and Vambola Ave – wheels tracking over shoulder, crushing the culvert

Summary of Drainage Issues

Type of Issue	Concern	Key Guiding Principles	Alternative Solutions
Partial or full blockage of culverts	Surface runoff is not conveyed efficiently	Convey peak flows and prevent flooding in accordance with the Town's design criteria and standards	 Clear blockage and extend opening Repair/replace culvert
Shallow or undefined ditch/swale	Ponding at low areas, water overflowing onto roadway or adjacent property	Convey peak flows and prevent flooding in accordance with the Town's design criteria and standards	 Clear ditch/remove blockage Recut the ditch/define swale

Common Issues Encountered – Poor Drainage











Intersection of Narva Ave and Estonian Rd – Soft Ground

Common Issues Encountered – Poor Culvert Condition











Summary of Property Related Issues

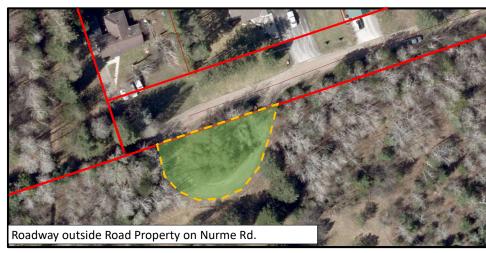
Type of Issue	Concern	Key Guiding Principles	Alternative Solutions
 Roads located on private property 	 Right of public access Town liability 	 Town must own land on which public road resides Minimize land acquisition needs 	 Do nothing Acquire land Reconstruct road within road property, no property acquisition
 Private property encroaching onto Town right-of-way 	 Private use of Town-owned lands Town liability 	 Maintain existing use of land to the extent practical Reduce Town liability 	 Do nothing Encroachment Agreement with Town of Georgina and maintain land use Remove private owned from road property
 Lack of sight triangles at major intersections 	 Lack of sight lines for turning movements Required by York Region but not included in original Plan of Subdivision 	 Traffic safety Minimize land acquisition needs 	 Do nothing Review with York Region as case-by-case basis Acquire property and clear land for sight triangle

Common Property Issues



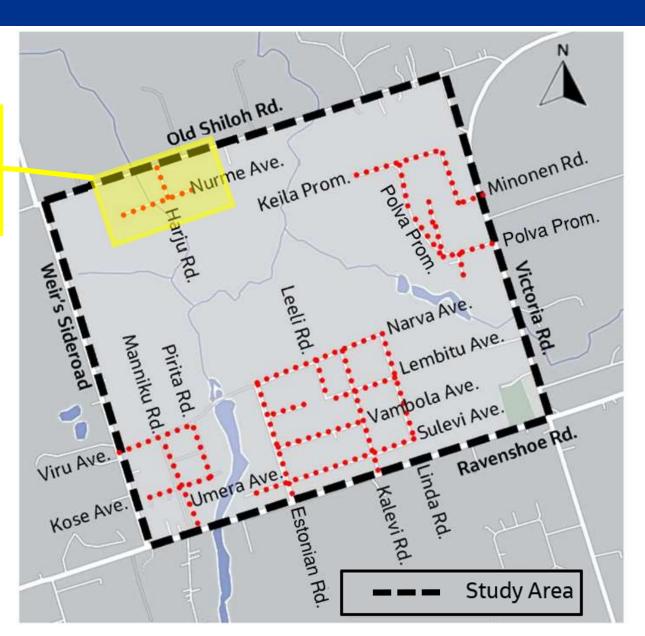




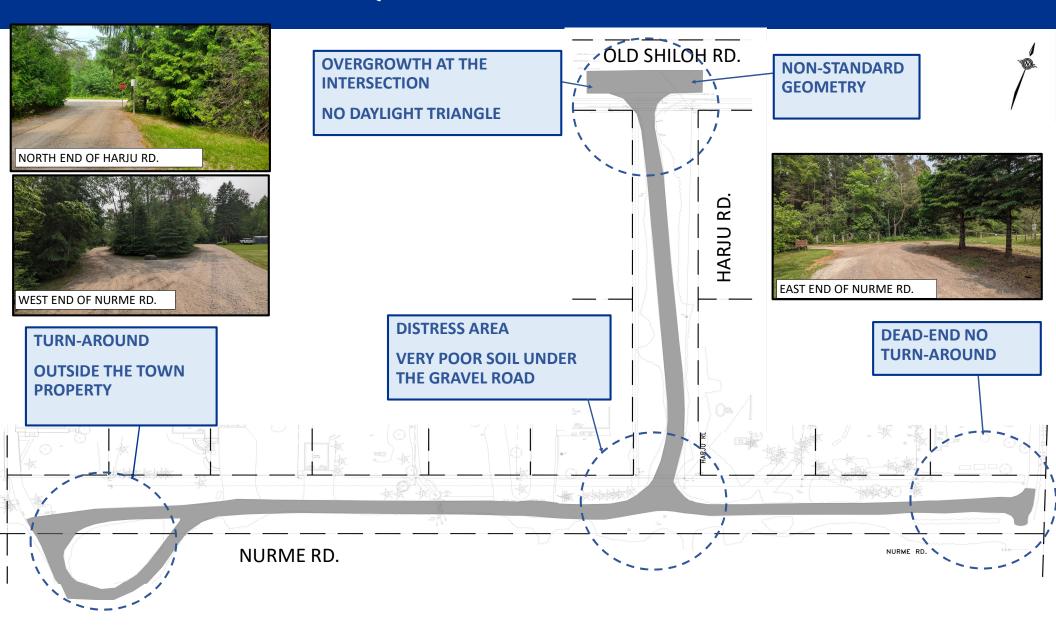


Northwest Quadrant

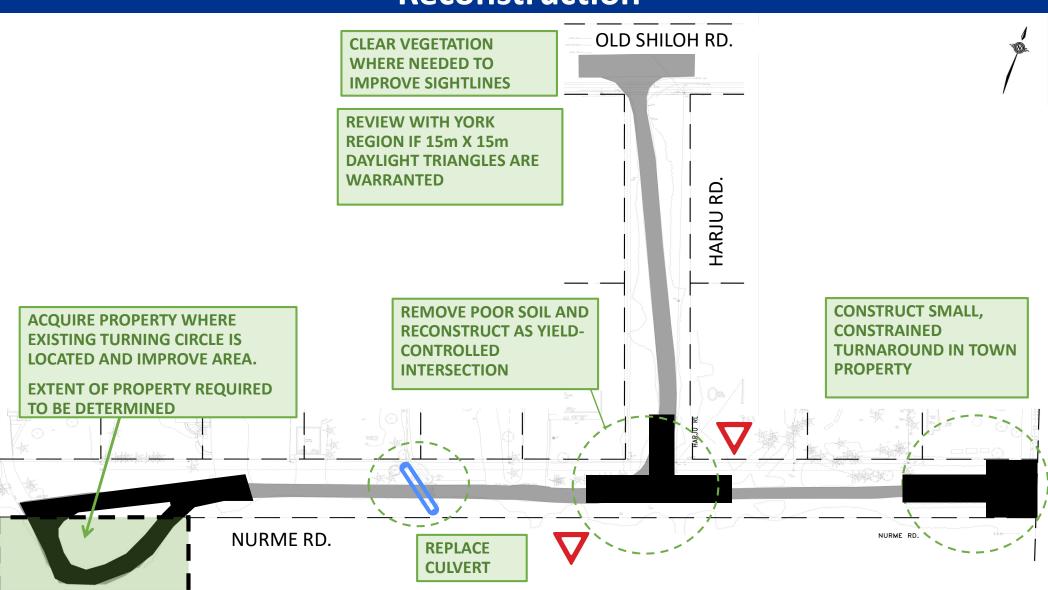
NORTHWEST QUADRANT **(NW)**



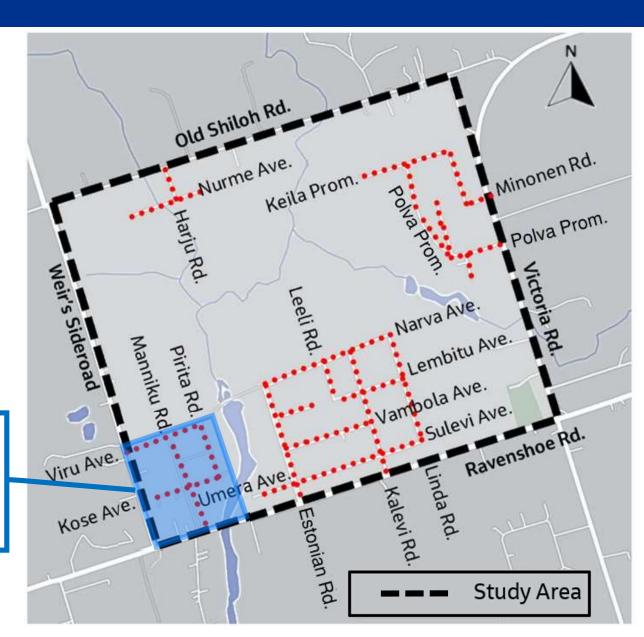
Northwest Quadrant – Areas of Deficiencies



Northwest Quadrant – Recommended Repairs and Reconstruction

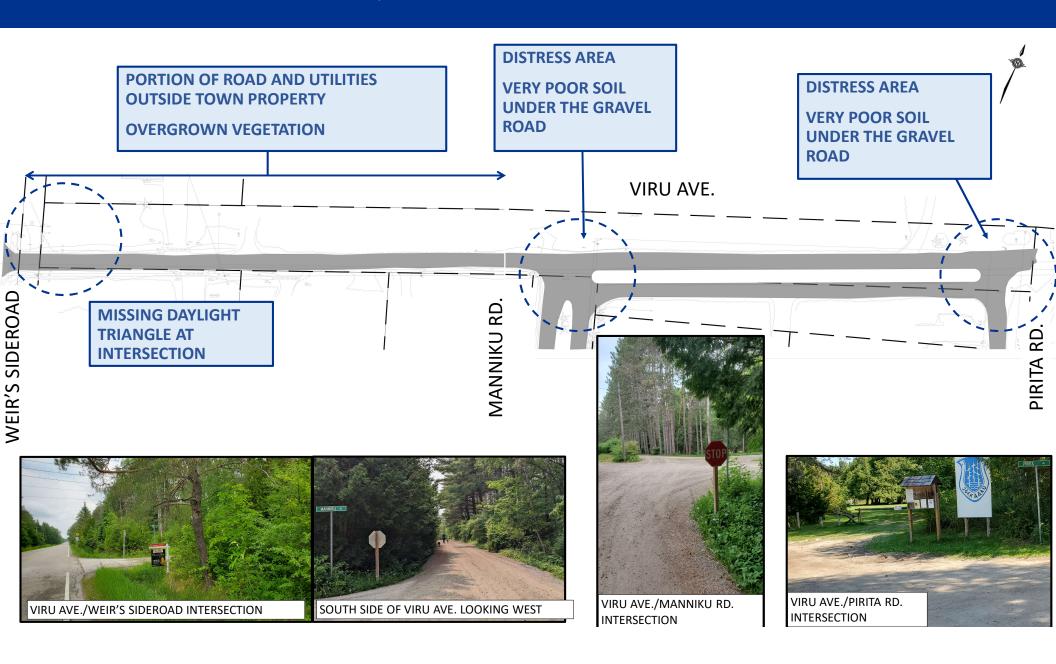


Southwest Quadrant

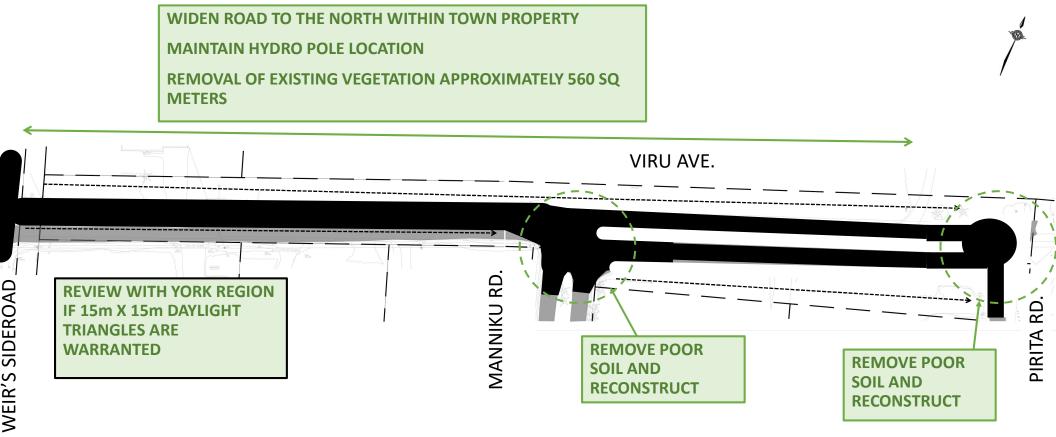


SOUTHWEST QUADRANT **(SW)**

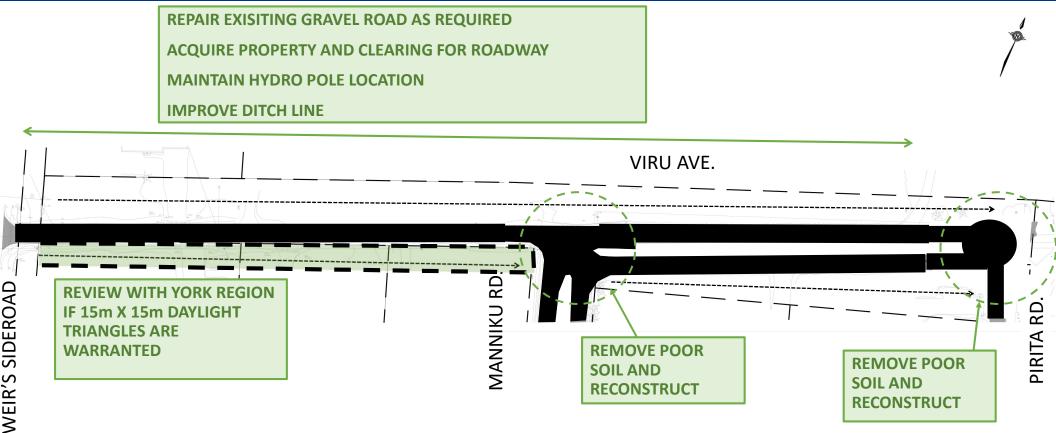
Southwest Quadrant – Areas of Deficiencies



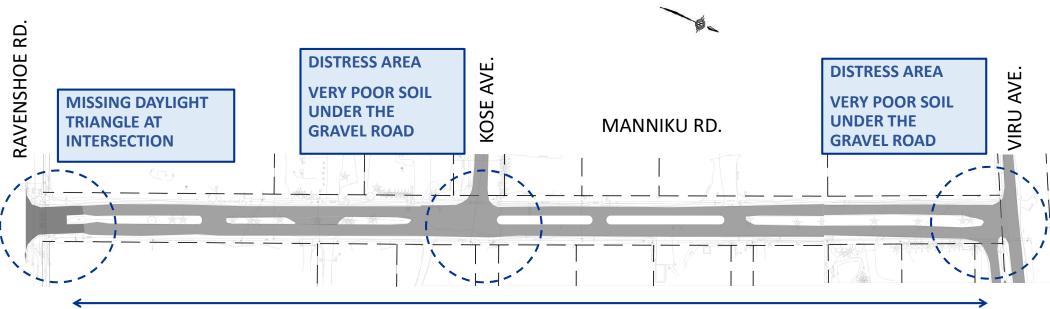
Southwest Quadrant – Recommended Repairs and Reconstruction Option A



Southwest Quadrant – Recommended Repairs and Reconstruction Option B



Southwest Quadrant – Areas of Deficiencies



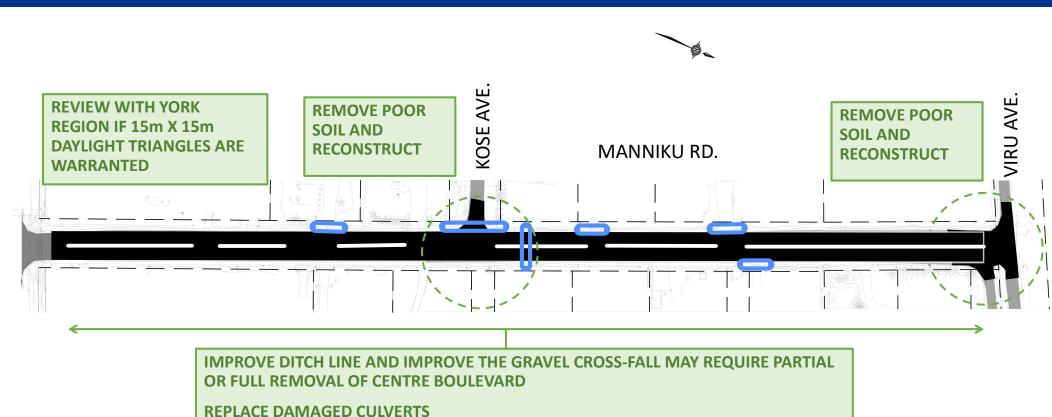
OPERATIONAL / MAITENANCE CONCERN OF CENTER BOULEVARD POOR CULVERT CONDITION / POOR DITCH LINE





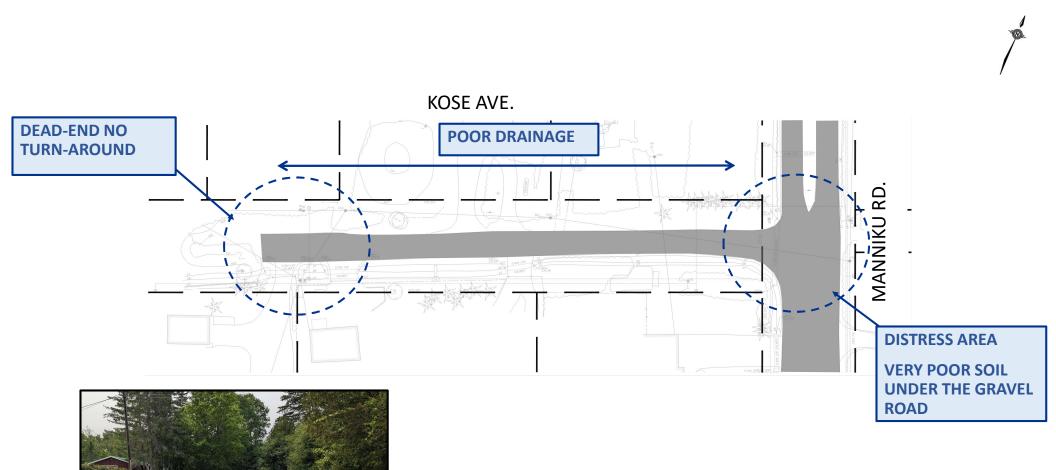


Southwest Quadrant – Recommended Repairs and Reconstruction



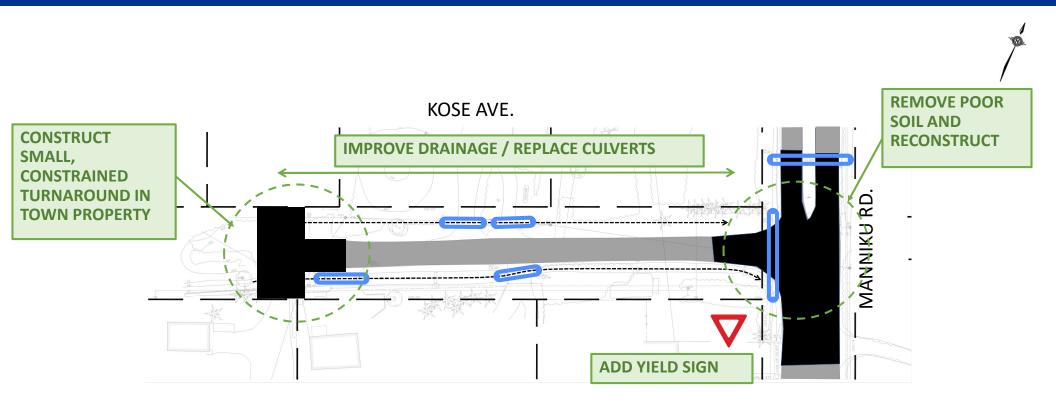
CLEAR BLOCKAGE AND EXTEND CULVERTS

Southwest Quadrant – Areas of Deficiencies

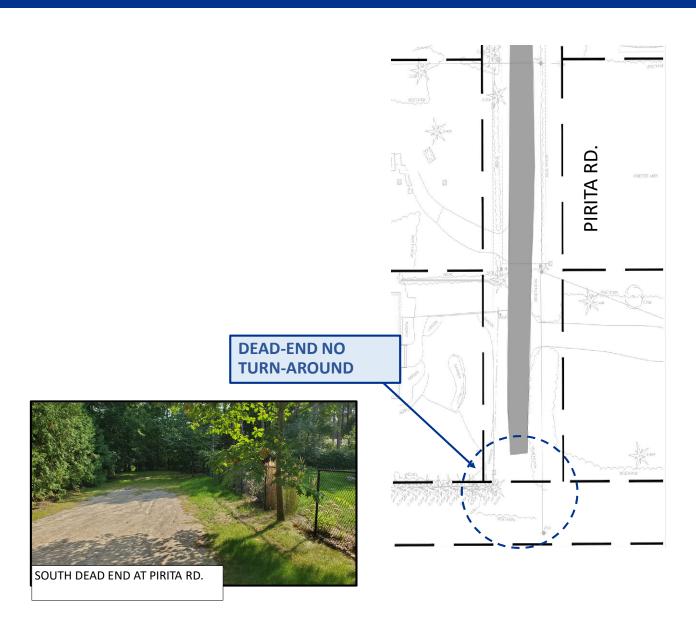


WEST DEAD END AT KOSE AVE.

Southwest Quadrant – Recommended Repairs and Reconstruction

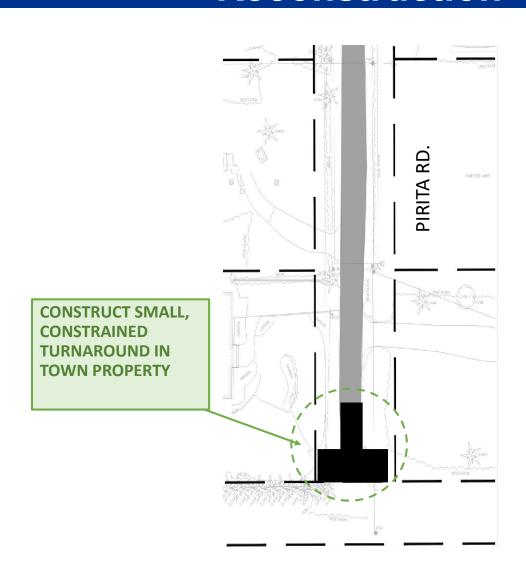


Southwest Quadrant – Areas of Deficiencies



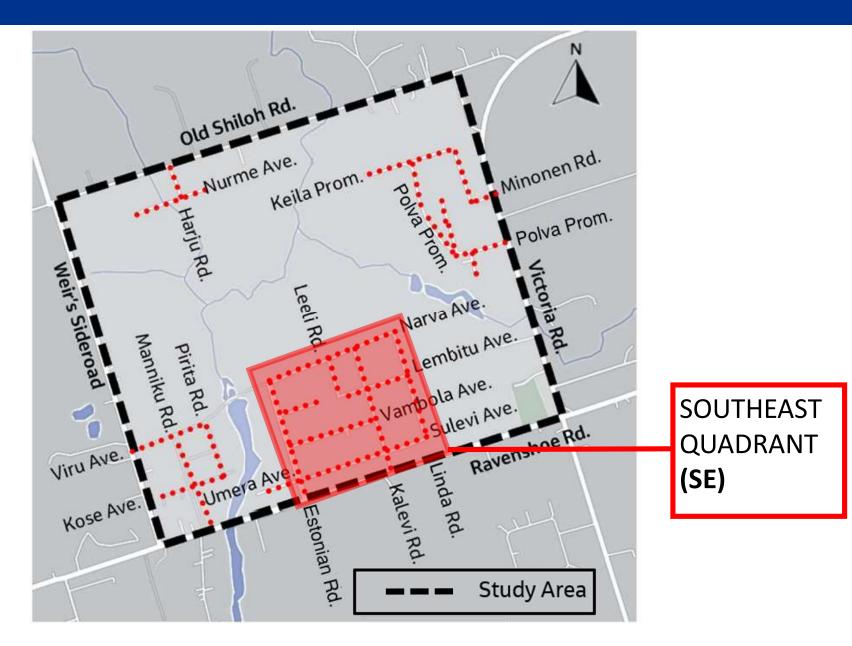


Southwest Quadrant – Recommended Repairs and Reconstruction

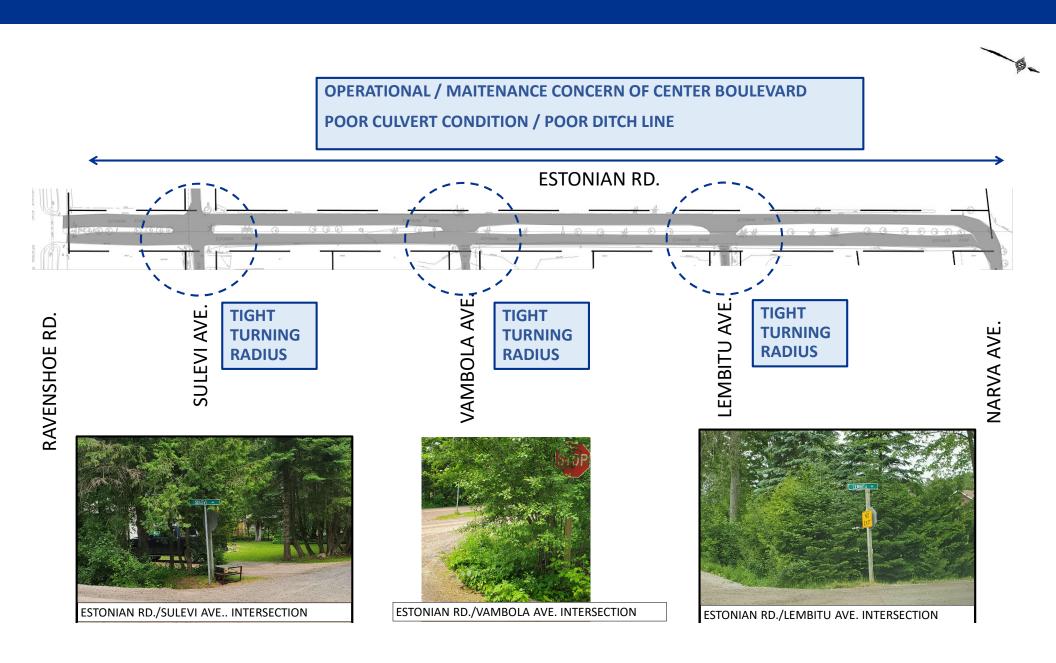




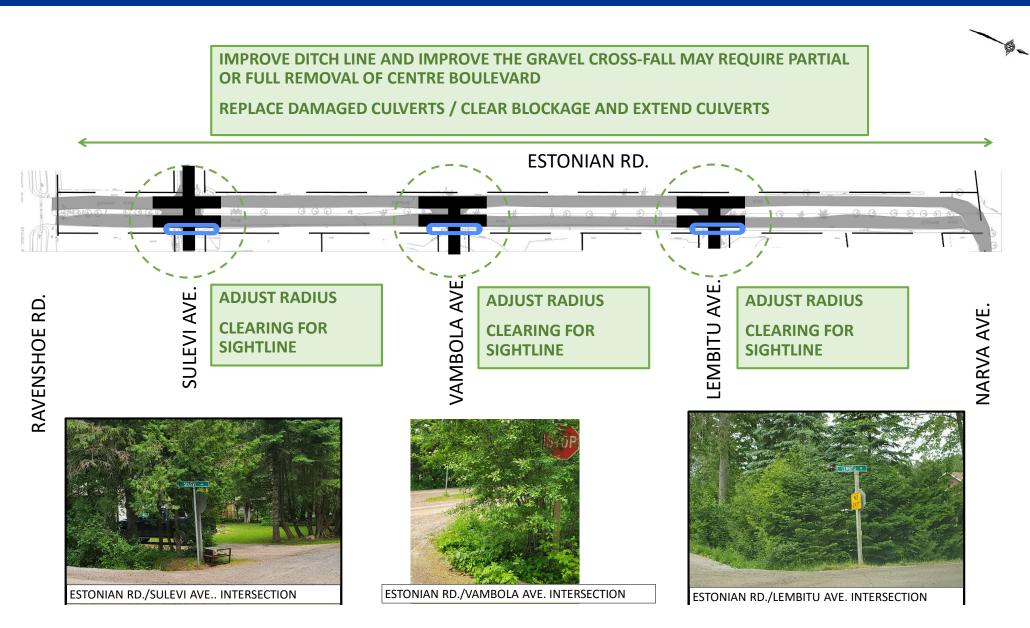
Southeast Quadrant



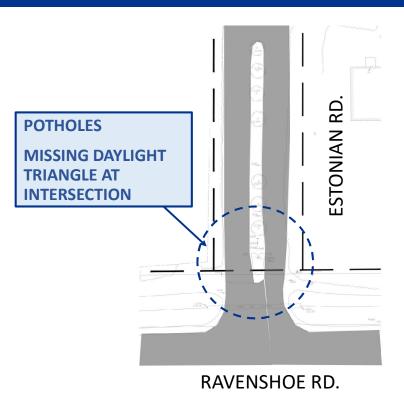
Southeast Quadrant – Areas of Deficiencies

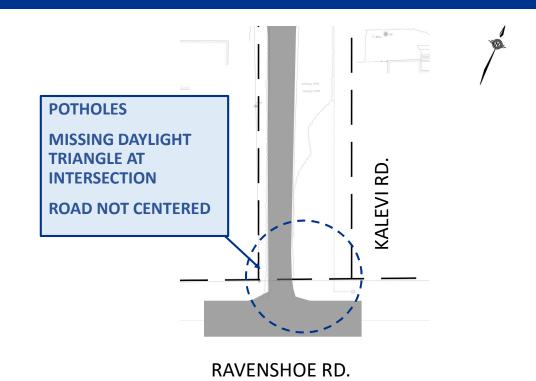


Southeast Quadrant – Recommended Repairs and Reconstruction

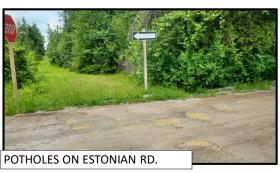


Southeast Quadrant – Areas of Deficiencies





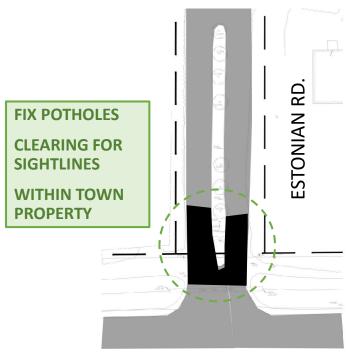






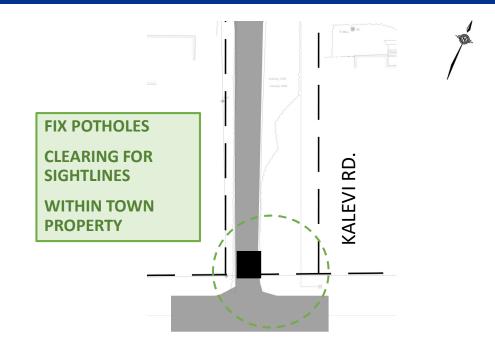


Southeast Quadrant – Recommended Repairs and Reconstruction



RAVENSHOE RD.

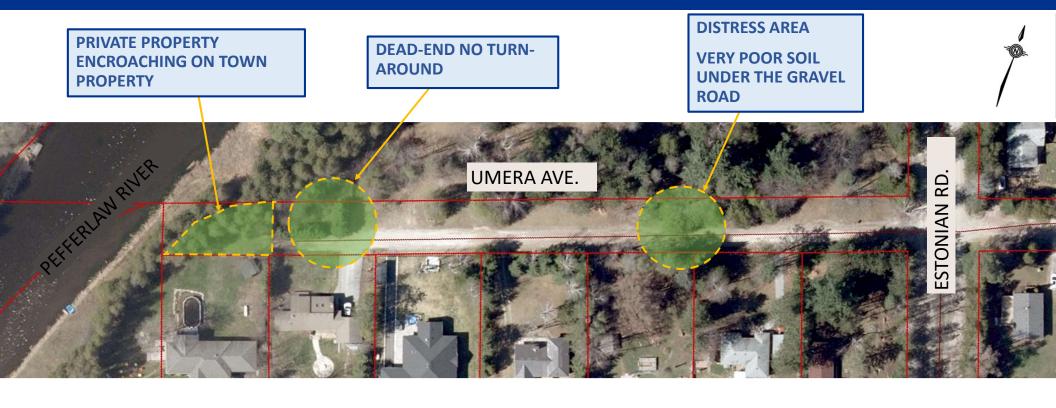
REVIEW WITH YORK REGION IF 15m X 15m DAYLIGHT TRIANGLES ARE WARRANTED



RAVENSHOE RD.

REVIEW WITH YORK REGION IF 15m X 15m DAYLIGHT TRIANGLES ARE WARRANTED

Southeast Quadrant – Areas of Deficiencies

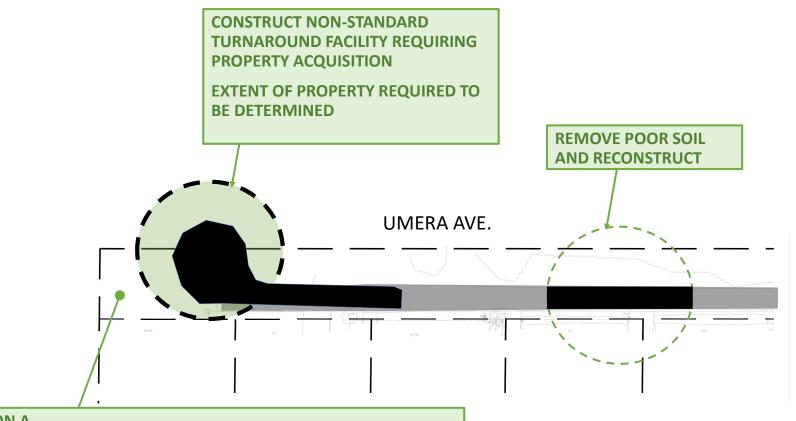








Southeast Quadrant – Recommended Repairs and Reconstruction



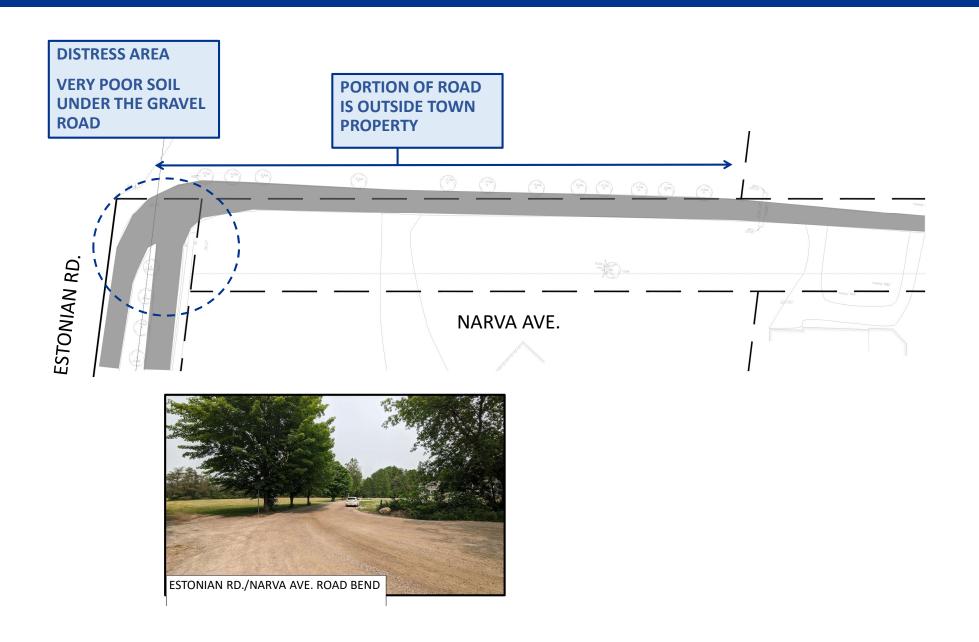
OPTION A

TOWN TO RELOCATED PRIVATE FENCE TO PROPERTY LINE

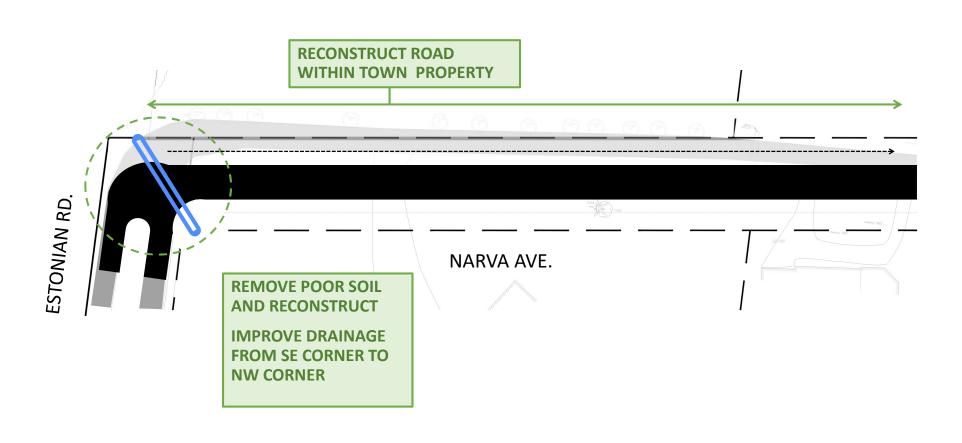
OPTION B

OWNER TO ENTER INTO ENCROACHMENT AGREEMENT WITH TOWN IN ORDER TO HAVE FENCE ON TOWN PROPERTY (MAINTAIN EXISTING USE OF LAND)

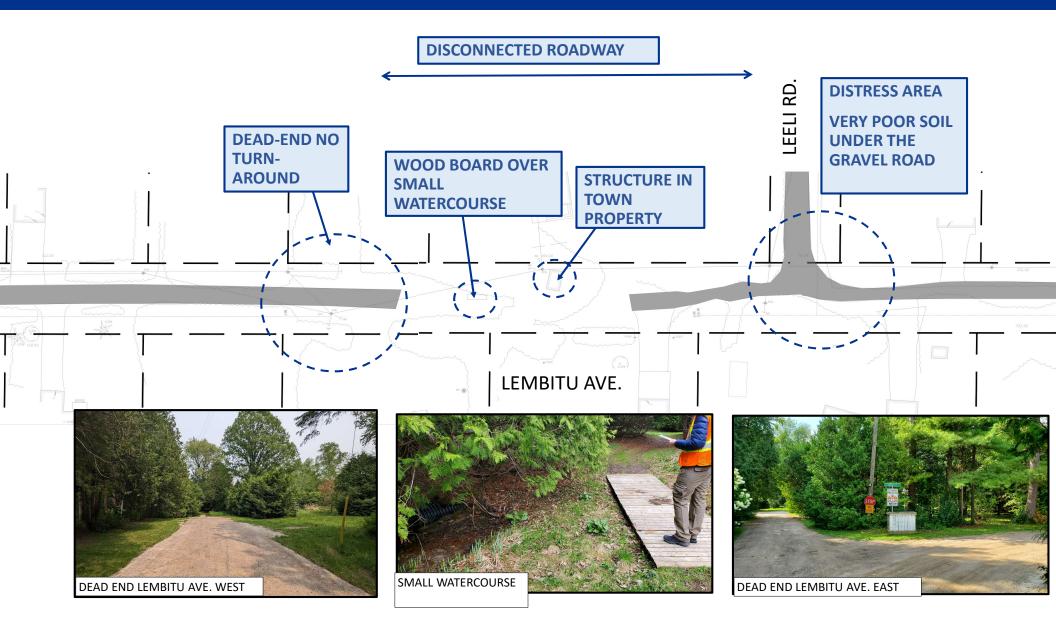
Southeast Quadrant – Areas of Deficiencies



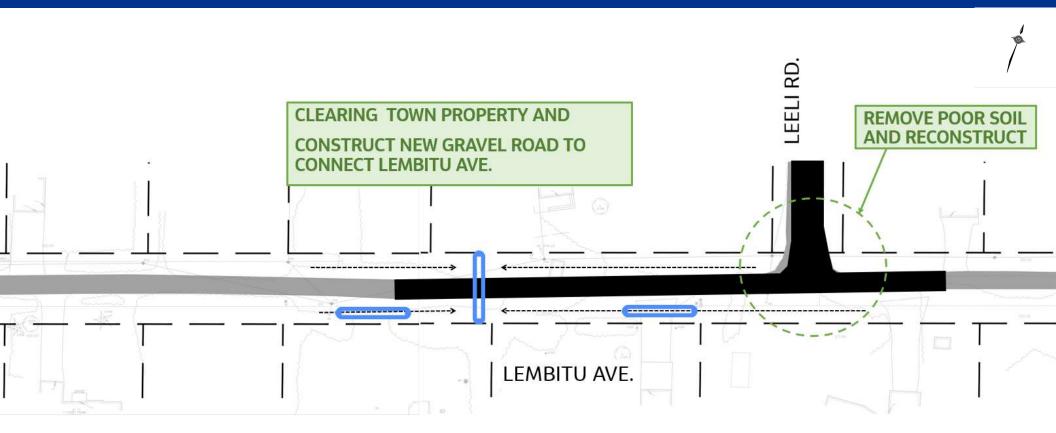
Southeast Quadrant – Recommended Repairs and Reconstruction



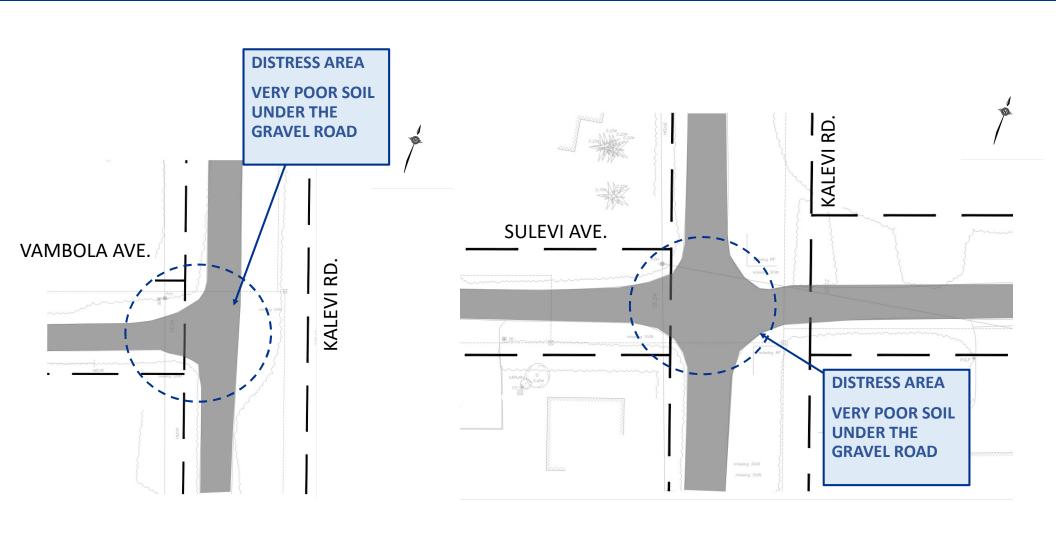
Southeast Quadrant – Areas of Deficiencies



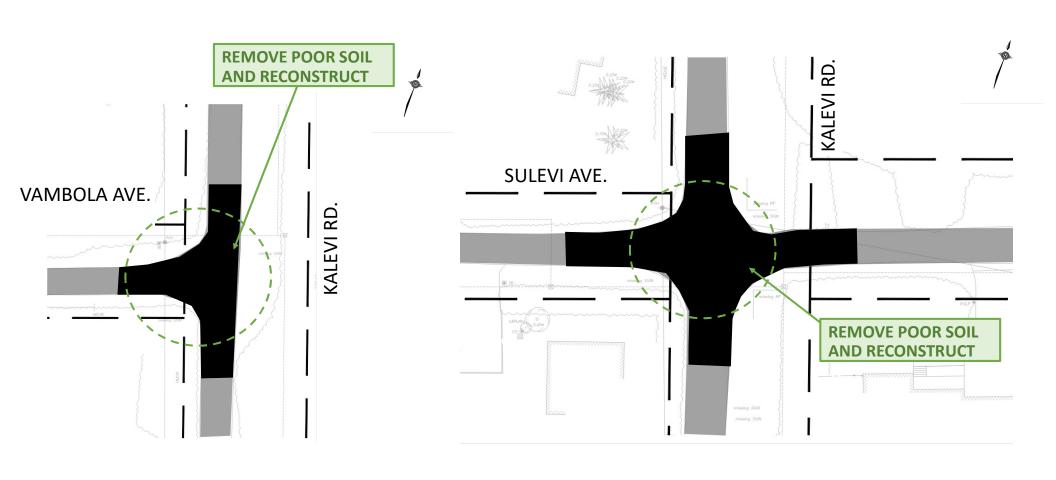
Southeast Quadrant – Recommended Repairs and Reconstruction



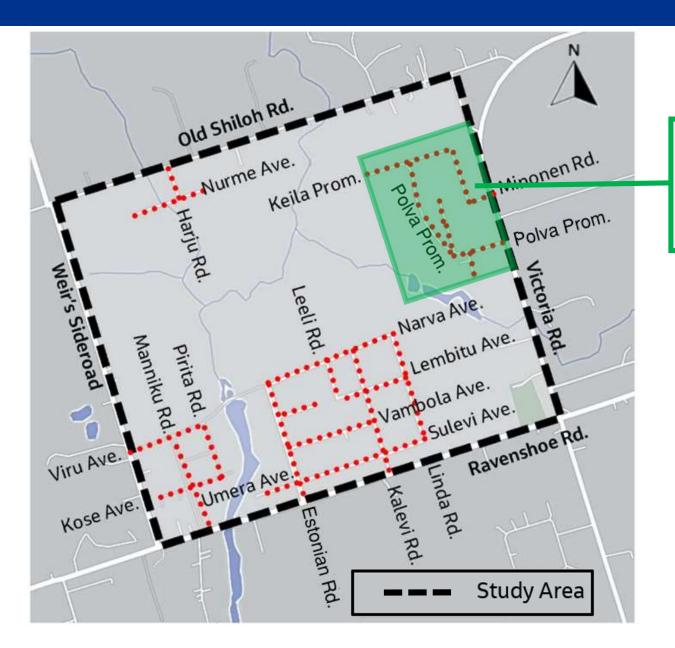
Southeast Quadrant – Areas of Deficiencies



Southeast Quadrant – Recommended Repairs and Reconstruction



Northeast Quadrant



NORTHEAST QUADRANT (NE)

Northeast Quadrant – Areas of Deficiencies





DRIVEWAY TO 118 VICTORIA RD. CROSSES 0.3m RESERVE ON MINONEN RD.



Northeast Quadrant – Recommended Solution





PASS BY-LAW TO DECLARE 0.3m RESERVE AS A PUBLIC HIGHWAY (MAINTAIN EXISTING LAND USE)

REVIEW WITH YORK REGION IF 15m X 15m DAYLIGHT TRIANGLES ARE WARRANTED

Northeast Quadrant – Areas of Deficiencies





Northeast Quadrant – Recommended Solution

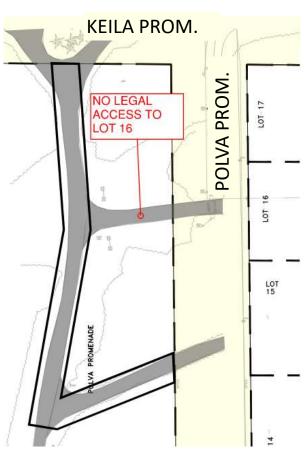
DO NOTHING, MAINTAIN EXISTING LAND USE AND EXISTING HYDRO SERVICE POLES



OWNER TO ENTER INTO ENCROACHMENT AGREEMENT WITH TOWN IN ORDER TO KEEP FENCE AND POOL AT CURRENT LOCATION (MAINTAIN EXISTING LAND USE AND REDUCED LIABILITY)

Northeast Quadrant – Areas of Deficiencies







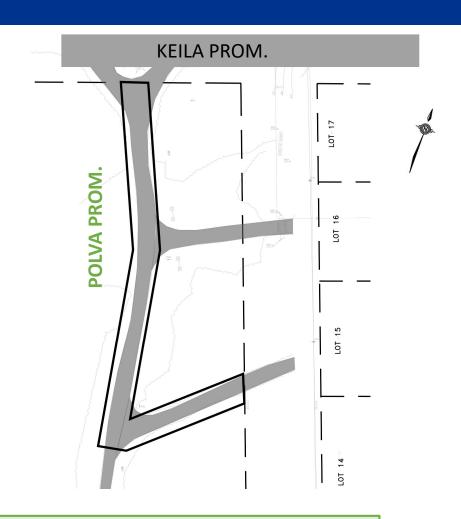
- EXISTING POLVA PROM IS LOCATED OUTSIDE OF TOWN RIGHT-OF-WAY ON ADJACENT PRIVATE PROPERTY
- LOT 15 (97 POLVA PROM) HAS LEGAL ACCESS VIA DEVELOPMENT AGREEMENT REGISTERED ON TITLE.
- LOT 16 (95 POLVA PROM) DOES NOT HAVE LEGAL ACCESS
- POLVA PROM IS NOT CONTINUOUS WITH OTHER SECTION OF POLVA

Northeast Quadrant – Alternative



OPTION A

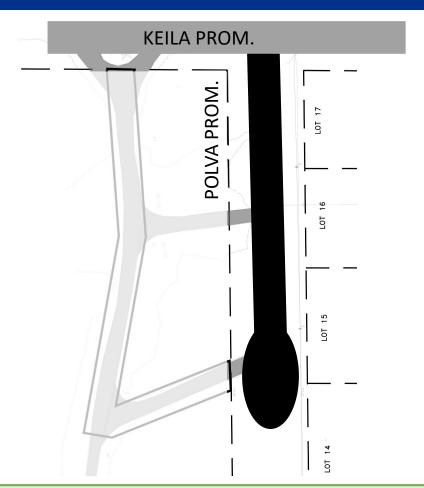
DO NOTHING (TOWN HAS NOT ASSUMED THIS ROAD)



OPTION B

RENAME THIS PORTION OF POLVA PROM TO PREVENT CONFUSION FOR EMERGENCY VEHICLES (SAFETY)

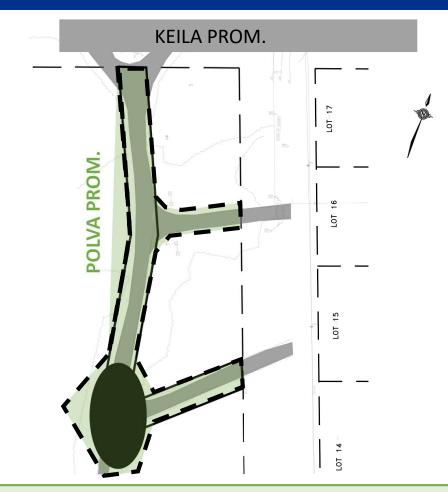
Northeast Quadrant – Alternative



OPTION C

RECONSTRUCT POLVA PROM ON TOWN RIGHT-OF-WAY

CONSTRUCT SMALL, CONSTRAINED TURNING FEATURES WITHIN RIGHT-OF-WAY

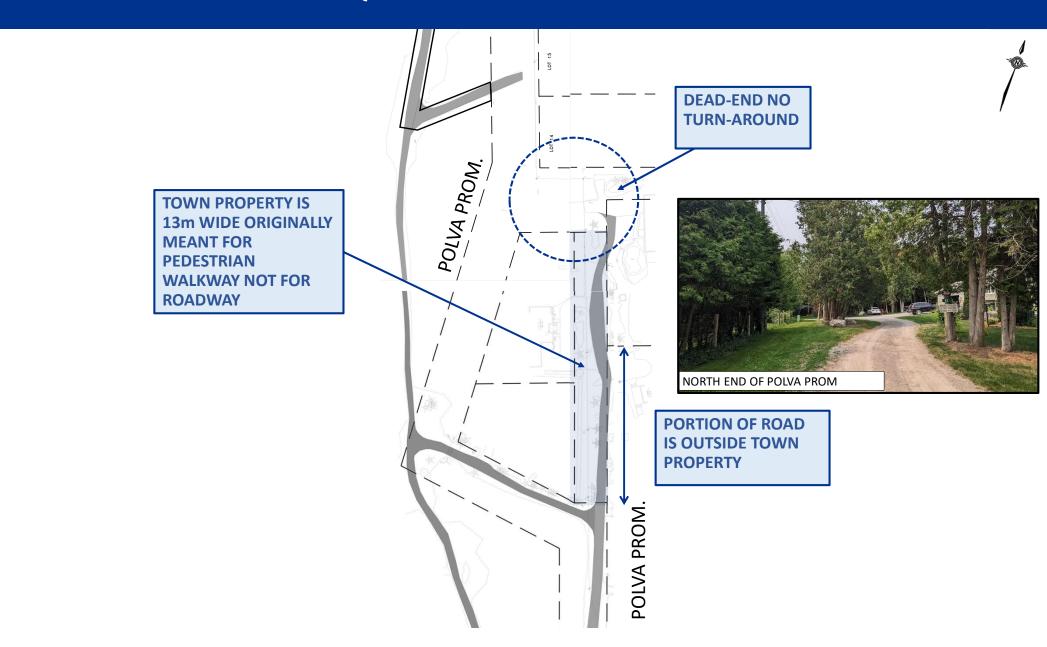


OPTION D

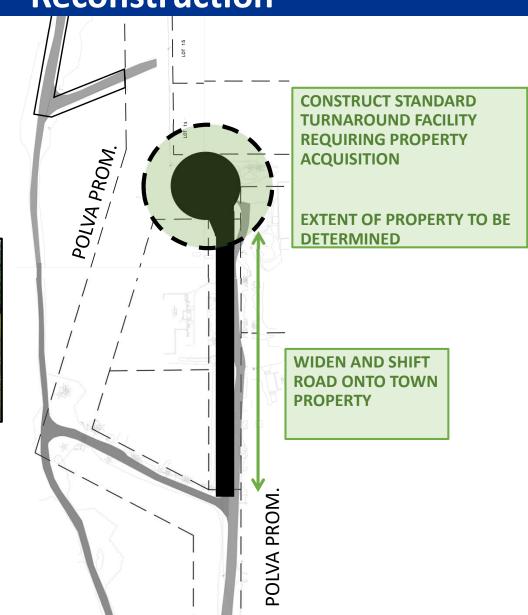
ACQUIRE LANDS WHERE EXISTING POLVA PROM IS LOCATED, PROPERTY EXTENT TO BE DETERMINED

CONSTRUCT SMALL, CONSTRAINED TURNING FEATURES

Northeast Quadrant – Areas of Deficiencies



Northeast Quadrant – Recommended Repairs and Reconstruction

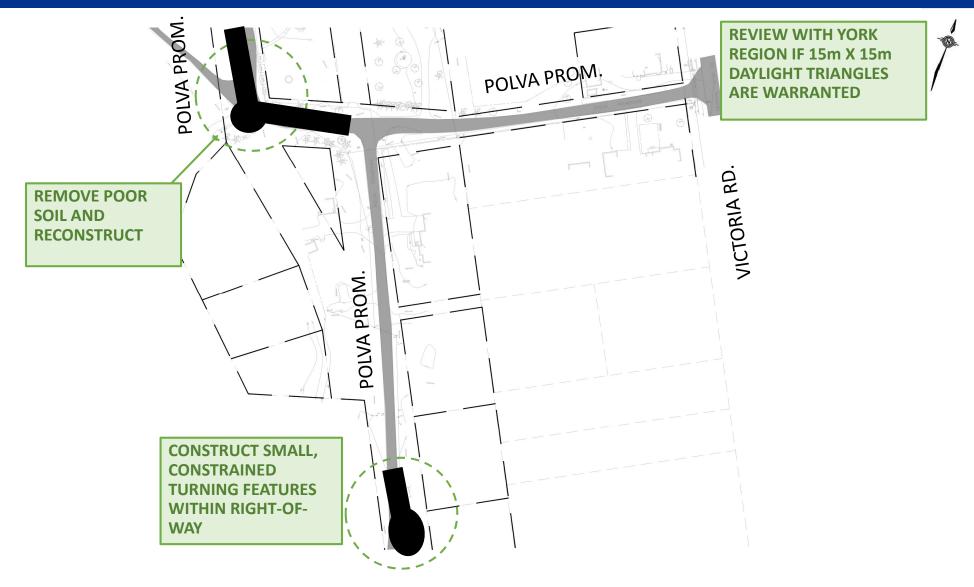




Northeast Quadrant – Areas of Deficiencies



Northeast Quadrant – Recommended Repairs and Reconstruction



Drainage Improvements – Recommended Repairs and Reconstructions

DITCH RE-GRADING AND CULVERT EXTENSION / UPGRADE
IMPROVE WATER FLOW AND REDUCE PONDING AT LOW AREAS

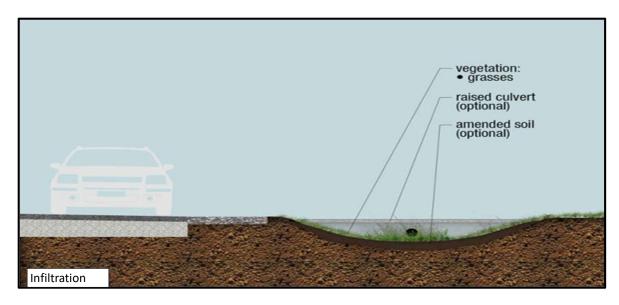


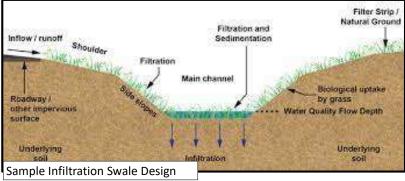




Drainage Improvements - Infiltration System

- 1. RUNOFF VOLUME CAPTURE AND MODERATE WATER QUALITY CONTROL VIA INFILTRATION
- 2. INFILTRATE SURFACE RUNOFF INTO THE GROUND AT SELECT LOCATIONS WHERE GROUNDWATER LEVEL IS NOT HIGH
- 3. PROMOTE INFILTRATION, PROVIDE WATER BALANCE BENEFITS, AND REDUCE DOWNSTREAM FLOODING

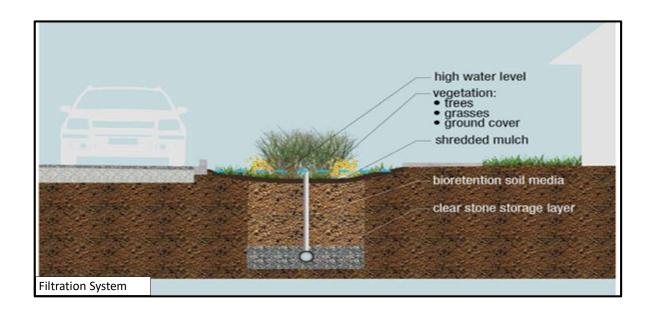


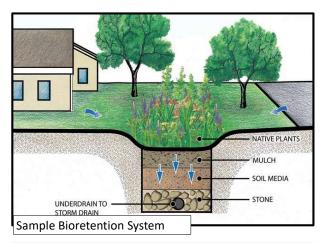




Drainage Improvements - Filtration System

- 1. RUNOFF VOLUME CAPTURE AND SIGNIFICANT WATER QUALITY CONTROL VIA FILTRATION SYSTEM
- 2. LEAD SURFACE RUNOFF INTO A FILTRATION SYSTEM (e.g. BIORETENTION UNITS)
- 3. PROVIDE WATER QUALITY AND WATER BALANCE BENEFITS, AND REDUCE DOWNSTREAM FLOODING







Next Steps

You are encouraged to comment on this project by submitting comment sheets by July 31st.

Members of the Public may also request to add their name and contact information to the mailing list to receive all future project communications.

Following this Public Information Centre, Town of Georgina will review the comments received.

Next steps include:

- Review and address stakeholder questions and concerns
- Select the Preferred Design
- Presentation of Preferred Preliminary Design to Council Summer 2023
- Implement the Preferred Design

Thank you for attending the **Public Information Centre**.

If you have any remaining comments, questions, or concerns regarding the project, please contact the Udora Project Email: info.udora.roads@jacobs.com

Owen Sanders

Senior Project Manager Town of Georgina

26557 Civic Centre Road, Keswick ON L4P 3G1

💜 (905) 476-4305 x 2451

osanders@georgina.ca

Tim Dickinson

Public Outreach Specialist Jacobs

1565 Carling Ave., 2nd Floor Ottawa, ON, K1Z 8R1

613-667-1842

THANK YOU

Udora Gravel Roads Upgrade Project Public Information Centre

June 28, 2023

6:00 PM to 8:00 PM

Udora Community Hall
24 Victoria Road, Udora, ON LOC 1L0





Question and Answer

TO BE AUDIO RECORDED