

Speed & Road Safety Concerns

Oxford Road 13 & Oxford Road 19,
Springford
Oxford Road 40, Curries

Presentation to Norwich Township Council

May 9, 2023

Frank Gross, Oxford County
Manager of Transportation and Waste Management Services

County-wide Traffic Calming Approach

- Ongoing speed monitoring in communities
- Information sharing and collaboration with OPP, municipal partners and community
- Adoption of posted speeds which are consistent with driving environment
- Prioritization and monitoring of traffic calming measures
- Consideration of traffic calming measures as part of road design

Speed & Road Safety Review Work Plan

- **24hr/7day speed data collection and analysis**
- **Review existing conditions and collision data**
- **Determine appropriate posted speed limit (TAC)**
- **Consult with Municipal Representatives and Police**
- **Present findings and recommendations to Norwich Council**
- **Public consultation**
- **County Council approval**

Establishing Posted Speeds (TAC)

- **TAC Guidelines – 2009**
- **Risk based analysis**
- **Physical and Road-User characteristics**
- **Systematic, consistent approach**
- **Site specific characteristics, engineering judgement**
- **Excludes school zones/playground areas**
- **Local, Provincial policies**

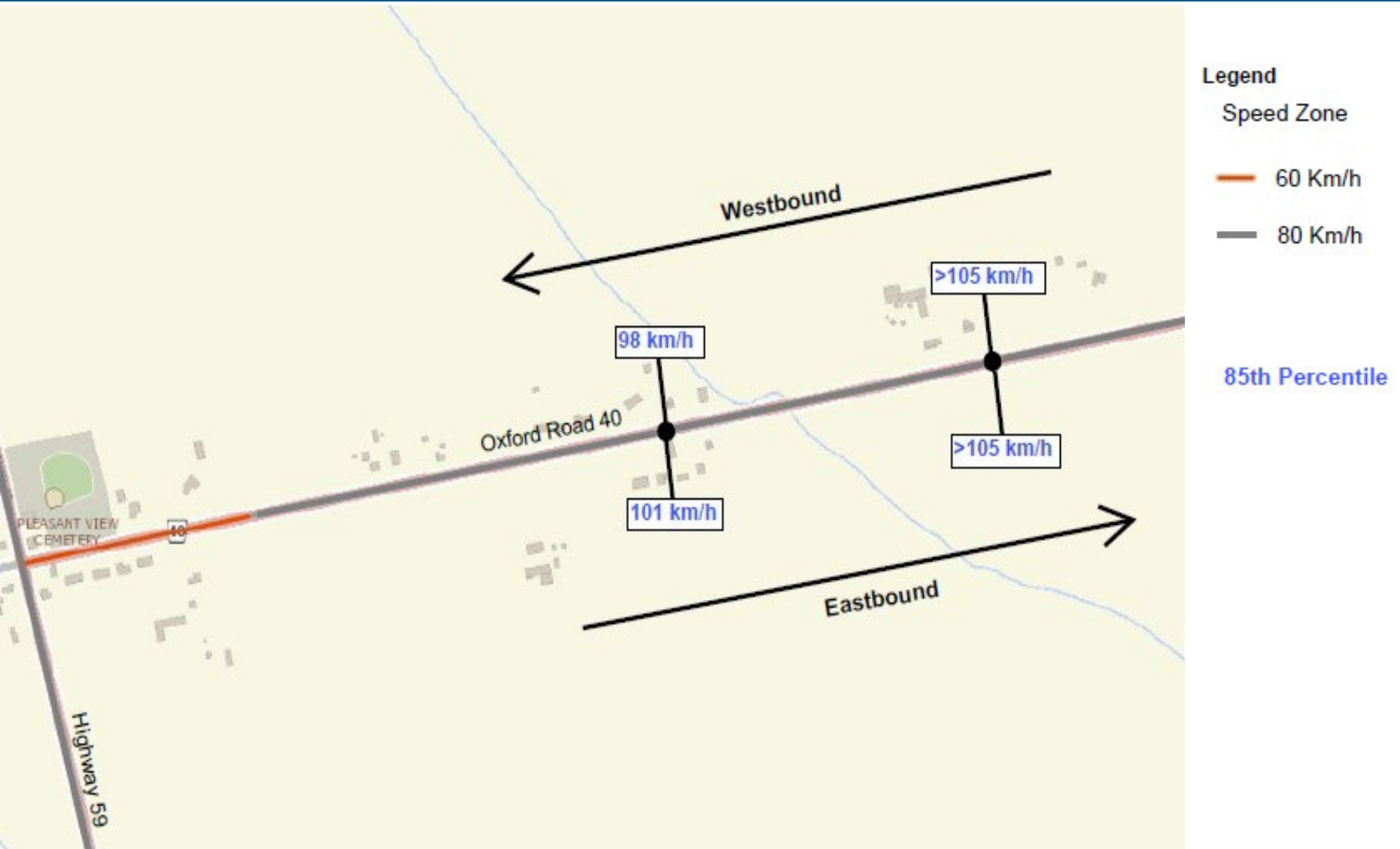
Appropriate Posted Speeds and Speed Variation/Differential

- Reduces speed variation/differential
- Reduces risk of collisions
- Enhances road safety
- Risk of collision is lower with uniform traffic flow
- Improves enforcement effectiveness
- Promotes uniform traffic flow
- Collision rate is more directly affected by speed variation than absolute speed
- Posted speeds lower than design/operating speeds result in:
 - ▶ Tailgating
 - ▶ Impatient Drivers
 - ▶ Passing
 - ▶ Greater collision risk

OR 40, Curries Existing Conditions

- **Rural cross section (gravel shoulders, ditches)**
- **Vertical curves (hills) through study area**

Oxford Road 40 Speed Data (24hr/7 day)



Collision History (OR 40 Study Area)

Year	2014	2015	2016	2017	2018	2019	2020	2021
Property Damage Only	0	0	3	0	0	0	1	0
Non-Fatal Injury	0	0	0	0	0	0	0	0
Fatal Injury	0	0	0	0	0	0	0	0
Total	0	0	3	0	0	0	1	0
Total Collisions 2014 – 2021: 4								

- **Historical collision data from 2014 to 2021:**
 - ▶ **4 total collisions; property damage only**
 - ▶ **Avg 0.50 collisions/year**
 - ▶ **Collision Rate**
 - **0.1.41 per 1mil vehicle kms**
 - **Provincial Avg (2019) = 1.53 per 1mil vehicle kms**

Oxford Road 40 Posted Speed Limits

SEGMENT	POSTED SPEED (KM/H)	TAC RECOMMENDED POSTED SPEED ¹ (KM/H)	DIFFERENCE (KM/H)	OXFORD COUNTY RECOMMENDED POSTED SPEED (KM/H)
500m to 2,000m East of Oxford Road 59 – Rural	80	70	-10	70

¹TAC Canadian Guideline for Establishing Posted Speed Limits (2009)

Driveway Sightline Assessment



Legend

Speed Zone

— 60 Km/h

— 80 Km/h

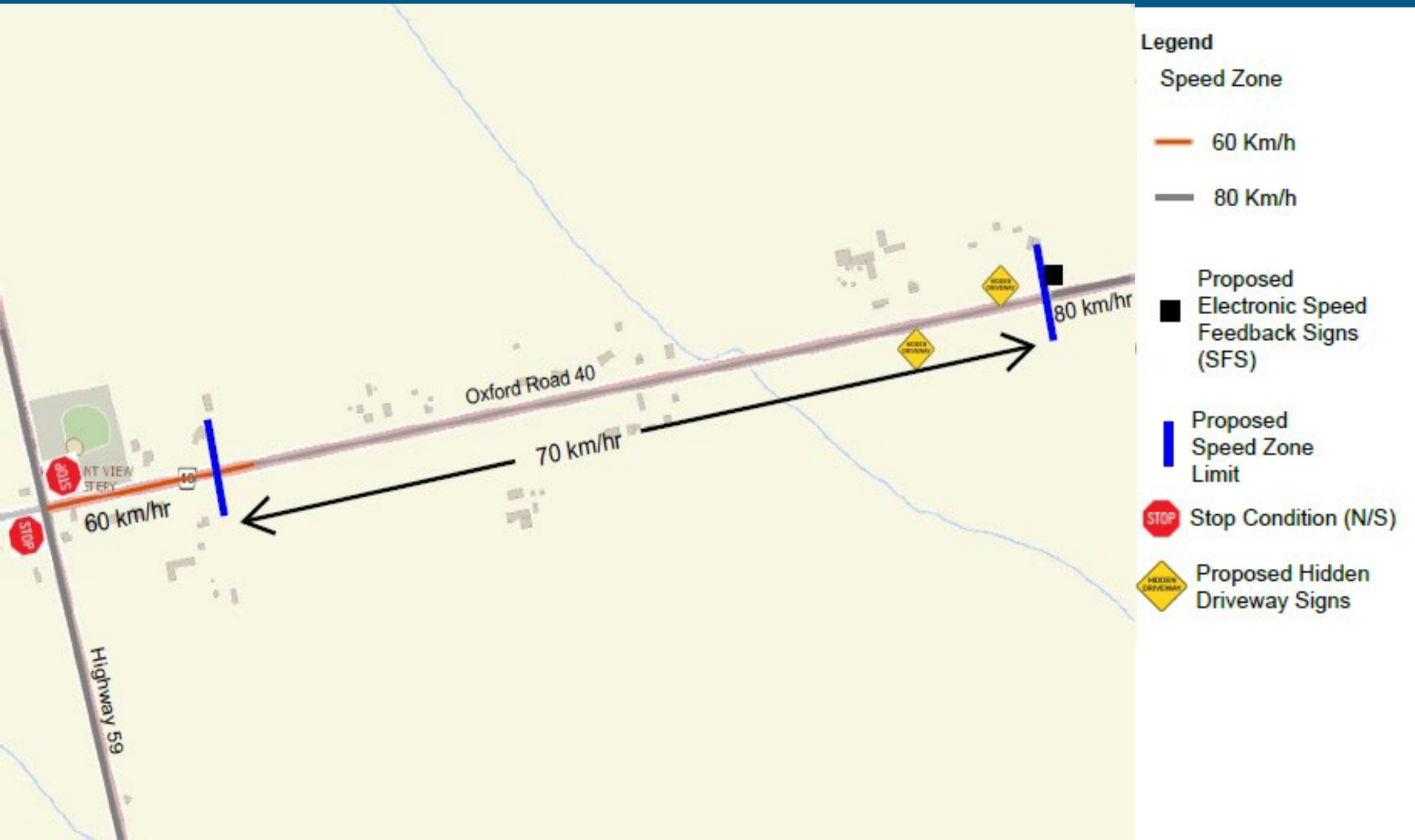
○ Assessed Driveway Locations

Oxford Road 40

Speed & Road Safety Review Findings

- Excessive speeds throughout the study area
- Collision rate is lower than the 2019 Provincial average collision rate
- Collisions were animal or weather related
- 3 out of 10 driveways do not meet TAC desired sightline distances (80km/hr posted speed)
- Posted speed is 10km/hr above TAC recommended posted speed

Oxford Road 40 Immediate Measures



Oxford Road 40 Future Considerations

- **Vertical realignment as part of future corridor upgrades (20 yr+)**

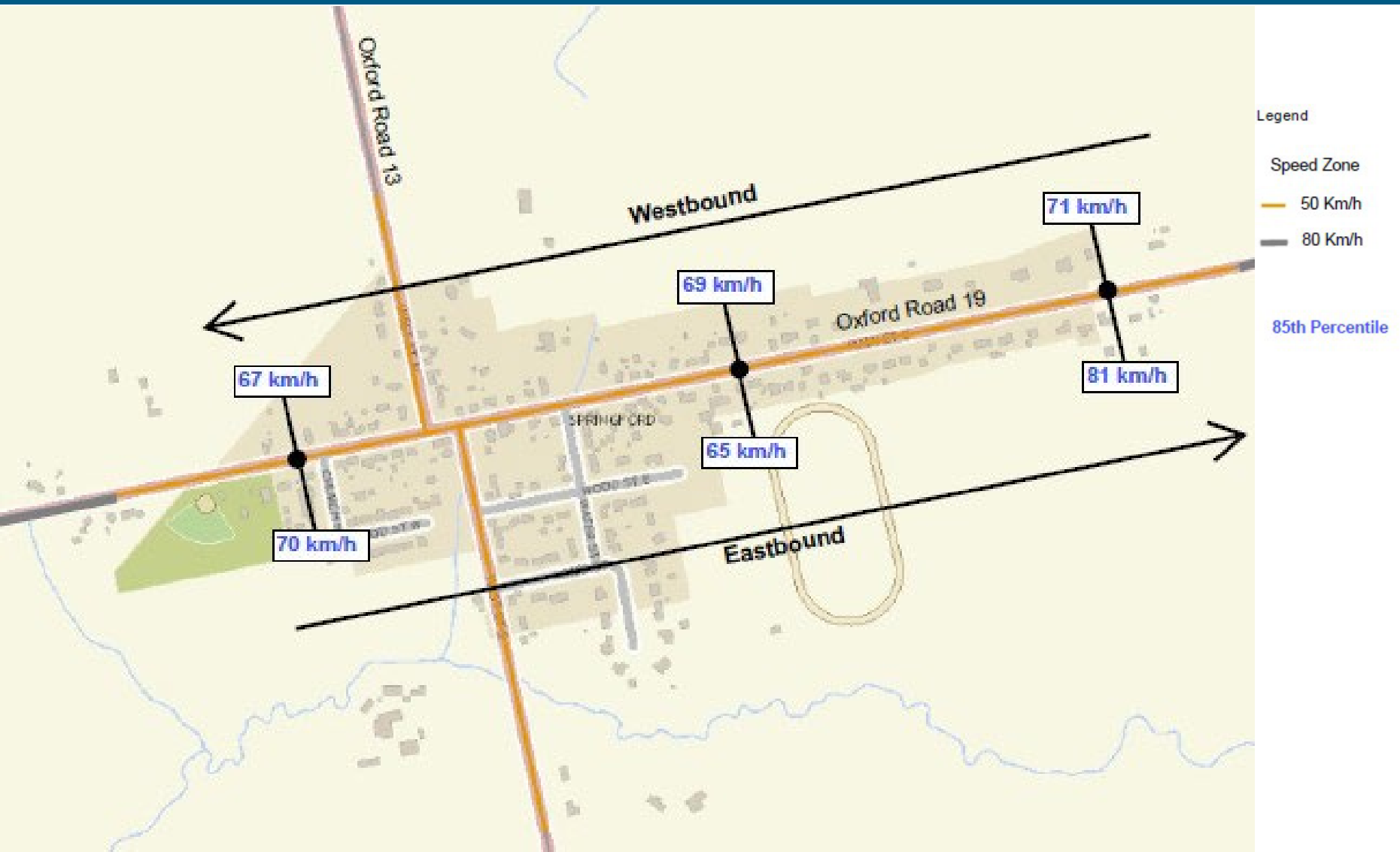
OR 13 & OR 19, Springford Existing Conditions

- **Urban x-sec**
- **Paved shoulders**
- **Curb & gutter**
- **Sidewalk on east side (OR 13)**
- **Sidewalk on north side (OR 19)**
- **OR 19 & OR 13 intersect (offset) with stop condition on OR 19**

Oxford Road 13 Speed Data (24hr/7 day)



Oxford Road 19 Speed Data (24hr/7 day)



Collision History (OR 13/OR 19 Study Area)

Year	2014	2015	2016	2017	2018	2019	2020	2021
Property Damage Only	1	1	3	4	6	6	2	7
Non-Fatal Injury	0	1	2	1	1	1	1	1
Fatal Injury	0	0	0	0	0	0	0	0
Total	1	2	5	5	7	7	3	8
Total Collisions 2014 – 2021:								

- **Historical collision data from 2014 to 2021:**
 - ▶ **38 total collisions**
 - ▶ **Avg 4.75 collisions/year**
 - ▶ **Collision Rate**
 - **0.66 per 1mil vehicle kms**
 - **Provincial Avg (2019) = 1.53 per 1mil vehicle kms**

Oxford Road 13

Posted Speed Limits

SEGMENT (NORTH TO SOUTH)	POSTED SPEED (KM/H)	TAC RECOMMENDED POSTED SPEED* (KM/H)	DIFFERENCE (KM/H)	OXFORD COUNTY RECOMMENDED POSTED SPEED (KM/H)
Milldale Rd and 240m north of OR 19 – Rural (north approach)	50/80	90	+40/10	80
240m north of and 350m south of OR 19 – Urban	50	60	+10	50
350m south of OR 19 and Ninth Rd – Rural (south approach)	50/80	90	+40/10	80

*TAC Canadian Guideline for Establishing Posted Speed Limits (2009)

Oxford Road 19

Posted Speed Limits

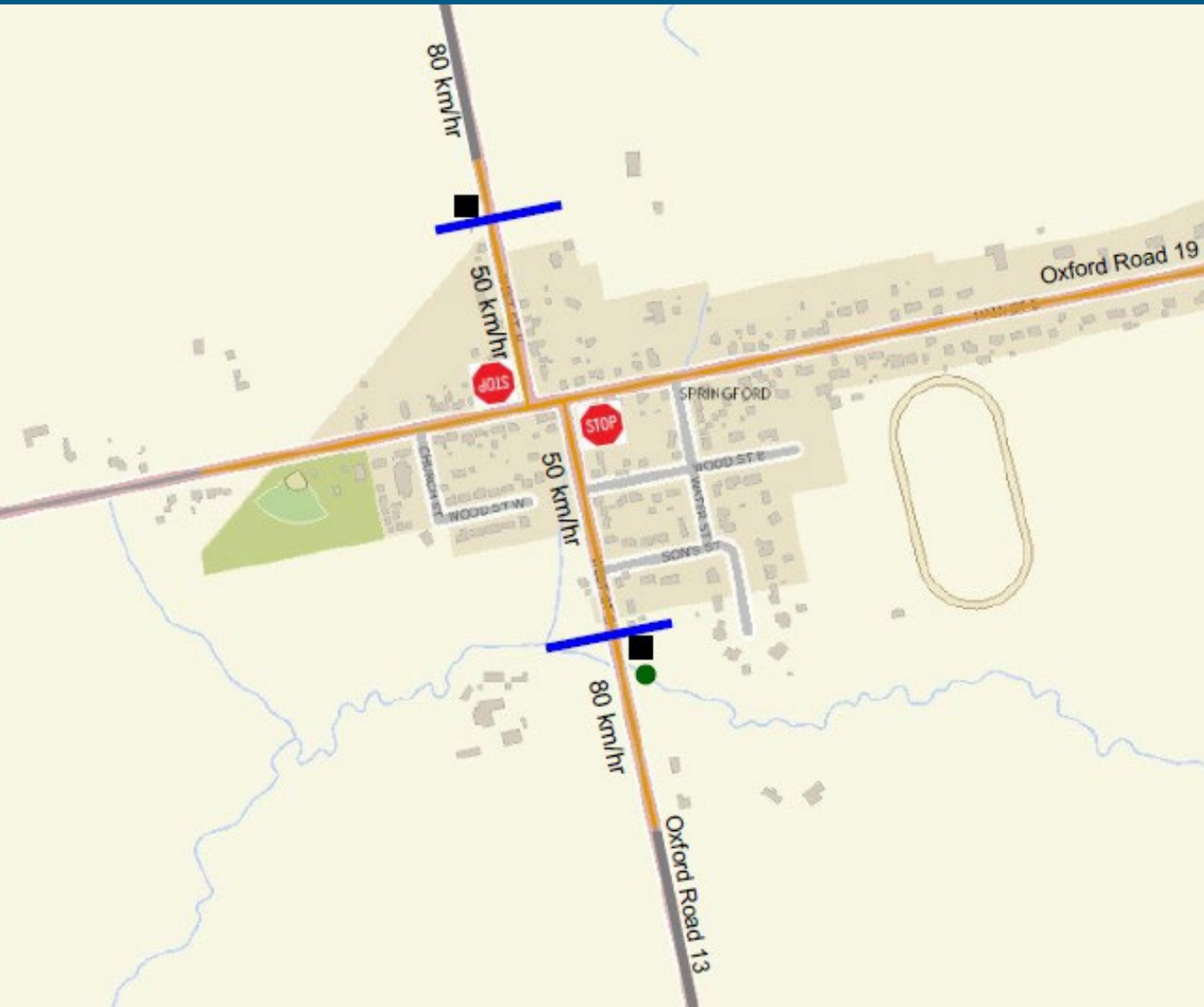
SEGMENT (WEST TO EAST)	POSTED SPEED (KM/H)	TAC RECOMMENDED POSTED SPEED* (KM/H)	DIFFERENCE (KM/H)	OXFORD COUNTY RECOMMENDED POSTED SPEED (KM/H)
Zenda Line and 600m west of OR 13 (N) – Rural (west approach)	80	80	0	80
600m to 300m west of OR 13 (N) – Rural/Urban	80/50	80 – Rural 70 - Urban	0 +20	80 60
300m west of OR 13 (N) and 1,070m east of OR 13 (S) – Urban (east approach)	50	70	+20	60

*TAC Canadian Guideline for Establishing Posted Speed Limits (2009)

OR 13 & OR 19, Springford Speed & Road Safety Review Findings

- Excessive speeds at south, east & west limits
- Marginally excessive speeds at north limit
- Existing 50km/hr speed zone on OR 13 extends beyond limit of built up area (north & south)
- Posted speed on OR 13 is 10km/hr below TAC recommended posted speed
- Posted speed on OR 19 is 20km/hr below TAC recommended posted speed
- Collision rate is significantly lower than 2019 Provincial average

Oxford Road 13 Recommendations – Immediate



Legend

Speed Zone

— 50 Km/h

— 80 Km/h

■ Proposed Electronic
Speed Feedback
Signs

● Relocated
Community
Boundary Signs
(OTM)

▮ Proposed
Speed Zone
Limit

STOP Stop Condition (N/S)

Oxford Road 19 Recommendations – Immediate



OR 13 & OR 19 Future Considerations

- **Community gateway features (community sign, landscaping)**
- **Extend urban road x-sec at west end of OR 19**
- **Automated speed enforcement (OR 19 CSZ)**
- **Community Watch Program (Township)**

Next Steps

- **Public consultation (Notices & Speak Up Oxford)**
- **County Council Authorization (June 14, 2023)**
- **By-law amendment**
- **Post monitoring/data sharing with Police**
- **Implementation of immediate measures**
 - ▶ Speed limit and zone adjustments
 - ▶ Installation of electronic speed feedback signs
 - ▶ Extend street lighting at west end on OR 19 (2024)

Speed & Road Safety Concerns

THANK YOU