

## OPERATIONS COMMITTEE

Tuesday, October 11, 2022
A meeting of the Operations Committee was held on Tuesday, October 11, 2022, at 9:30 a.m., at the County of Renfrew Administration Office, 9 International Drive, Pembroke, Ontario.
Present were: Chair Tom Peckett Vice-Chair David Bennett Warden Debbie Robinson
Councillor Brian Hunt Councillor Sheldon Keller Councillor Daniel Lynch Councillor Janice Tiedje
Staff Present: Craig Kelley, Chief Administrative Officer/Clerk Lee Perkins, Director of Public Works and Engineering Jason Davis, Director of Development and Property Richard Bolduc, Manager of Operations Taylor Hanrath, Manager of Infrastructure Rosalyn Gruntz, Deputy Clerk Tina Peplinskie, Media Relations and Social Media Coordinator Evelyn VanStarkenburg, Administrative Assistant

Chair Peckett called the meeting to order at 9:30 a.m. The land acknowledgement identifying that the meeting was being held on the traditional territory of the Algonquin People was recited. The roll was called, and no pecuniary interests were disclosed.

## RESOLUTION NO. OP-C-22-10-108

Moved by Councillor Hunt
Seconded by Councillor Bennett
THAT the minutes of the September 12, 2022 meeting be approved. CARRIED.

## Public Works and Engineering

Mr. Perkins overviewed the Public Works and Engineering Department Report which is attached as Appendix A.

Committee was advised that the line painters will be completing pavement markings, weather permitting, over the next two weeks for the road construction projects that are complete. A concern was raised with regards to the broken lines that were painted following rehabilitation of a section of Drive-In Road where it is posted as 50 km and 60 km . Staff advised that this will be reviewed as part of the final construction project overview.

Mr. Perkins advised that staff has been in consultation with the Town of Petawawa and has advised that the County of Renfrew has no financial obligations to the Town for their proposed urbanization of County Road 37 (Murphy Road) between County Road 26 (Doran Road) and County Road 51 (Petawawa Boulevard) and that this section is part of the Asset Management Plan to be pulverized and repaved in 2023.

RESOLUTION NO. OP-C-22-10-109
Moved by Councillor Lynch
Seconded by Warden Robinson
THAT the Operations Committee amend the proposed motion by removing the wording "County Road 51 (Petawawa Boulevard) in the Town of Petawawa and Campbell Drive in the Township of McNab/Braeside". CARRIED.

## RESOLUTION NO. OP-C-22-10-110

Moved by Councillor Bennett
Seconded by Councillor Lynch
THAT the Operations Committee recommends that Country Council approve a delegation request at the 2023 Rural Ontario Municipal Association (ROMA) Annual Conference with the Minister of Infrastructure to discuss growth related and shovel ready construction projects. CARRIED.

Discussion occurred with regards to the assumption of Campbell Drive. Mr. Perkins advised that when the County assumes a roadway, the County is responsible for the rehabilitation of the asset; however, this does not include regular maintenance operations such as snow removal. Mr. Perkins advised that County Road 72 (Ridge Road) and County Road 73 (Deep River Road) in the Town of Deep River were the last roads uploaded to the County of Renfrew. The County has an agreement in place with the Town of Deep River for the snow removal.

Mr. Perkins advised that the County of Renfrew uses the Ontario Good Roads Association criterion to establish whether a road meets the upper-tier standards as the Corporate Policy PW-01 Road Classification System does not have a provision for conditions of a road prior to transferring to the County. He noted that Corporate Policy PW-02 Bridge Design and Construction, does have provisions for lower tiers to upgrade their bridges or culverts prior to transferring to the County.

## RESOLUTION NO. OP-C-22-10-111

Moved by Councillor Bennett
Seconded by Councillor Hunt
THAT the Operations Committee recommends that County Council endorse the assumption of Campbell Drive into the County Road System, effective January 1, 2023, subject to the execution of maintenance agreements between the County of Renfrew and the Township of McNab/Braeside with respect to maintenance related matters; AND FURTHER THAT a By-law be passed to amend By-law 10-15, being a By-law to Consolidate all By-laws with respect to Roads and Bridges included in the County Road System. NOT VOTED ON.

## RESOLUTION NO. OP-C-22-10-112

Moved by Warden Robinson
Seconded by Councillor Hunt
THAT the Operations Committee recommends that Resolution No. OP-C-22-10112 be tabled until February 2023; AND FURTHER THAT staff develop a policy that provides provisions for conditions of a lower tier road prior to being uploaded to the County. CARRIED.

## RESOLUTION NO. OP-C-22-10-113

Moved by Councillor Lynch
Seconded by Councillor Keller
THAT the Operations Committee recommends that County Council pass a By-law approving Corporate Policy PW-18 - Decorative Crosswalks on County Roads which outlines the procedure for the request and approval of the installation of a decorative crosswalk. CARRIED.

Mr. Hanrath presented an overview of the 2022 Capital Projects, which is attached as Appendix B and becomes part of the Operations Committee Report.

Appreciation was expressed to the County of Renfrew Public Works Day-Labour and Infrastructure Division staff for the road and culvert construction projects completed over the summer.

## Operations Division

Mr. Bolduc overviewed the Operations Division Report, which is part of the Public Works and Engineering Department Report.

Discussion occurred with regards to speed bumps on roads and whether this is of concern to the County for snowplows. Mr. Bolduc advised that speed bumps can cause damage to the snowplows. He noted that removable speed bumps are now available, and this is preferred if speed bumps are required on County Roads.

## RESOLUTION NO. OP-C-22-10-114

Moved by Councillor Keller
Seconded by Warden Robinson
THAT the Public Works and Engineering Department Report attached as Appendix A be approved. CARRIED.

## New Business

## Active Transportation

Clarification was requested with regards to submitting grant applications and the what the requirement for Active Transportation lanes would be. Mr. Perkins advised that active transportation lanes have additional regulations on where they can be located, size, signage, etc. The County of Renfrew refers to bicycle/pedestrian lanes as hardened shoulders rather than active transportation lanes.

Appreciation was expressed to the Chair and Committee members for their time and contributions over the past few years. It was acknowledged that the efforts made are making a difference. Appreciation was also expressed for staff members and their support to the Operations Committee.

## RESOLUTION NO. OP-C-22-10-115

Moved by Councillor Tiedje
Seconded by Councillor Lynch
THAT this meeting adjourn and the next regular meeting be held at the call of the Chair. Time: 10:30 a.m. CARRIED.

COUNTY OF RENFREW
PUBLIC WORKS AND ENGINEERING DEPARTMENT REPORT

## TO: Operations Committee

FROM: Lee Perkins, C.E.T., MBA, Director of Public Works and Engineering
DATE: October 11, 2022

SUBJECT: Department Report

## INFORMATION

1. Monthly Project Status Report [Strategic Plan Goal No.3]

Attached as Appendix I is the Monthly Project Status Report. Additional project specific information is provided in the Divisional reports.

## 2. Capital Program Variance Report [Strategic Plan Goal No. 3]

Attached as Appendix II is the Capital Program Variance Report. Mr. Hanrath will provide an overview of the 2022 Capital Projects at the meeting.

## 3. Urbanization of Section of County Road 37 (Murphy Road) - Town of

 PetawawaAttached as Appendix III is an email from Mr. David Unrau, Director of Public Works for the Town of Petawawa, stating that the Town plans to move forward with Jp2g Consultants Inc. for a design to urbanize the section of County Road 37 (Murphy Road) between County Road 26 (Doran Road) and County Road 51 (Petawawa Boulevard). Once the design is complete, the cost split of the urbanization will be ascertained. The following are stipulations as to the County's responsibilities regarding reconstruction and detailed as part of the Ontario Good Roads Association Road Rationalization:

1. The County shall be responsible for:
i) The construction of an urban cross-section up to the minimum "Geometric Design Standards for Undivided Urban Roads in Ontario" (i.e. two driving and one parking lane), but in no case less than the centre 7.0 m of any County road in an urban area.
ii) The construction of curbs and gutters.
iii) The construction of the paved boulevard between curb and sidewalk to a maximum of 0.5 m width.
iv) The construction of catchbasins and the portion of storm sewers required to drain the County road. (In no case will the County drain land more than 25 m from the centreline of the road.)
v) The construction of a full rural section within any urban area.
vi) The remaining costs of those works covered by Section 5, requested by the local municipality, and deemed feasible and economical by the Director of Public Works and Engineering, or designate.
2. Land acquisition when land is required to accommodate the road section specified in 1i) shall be the responsibility of the County.
3. The County shall be responsible for utility relocation costs as outlined in the Public Service Works on Highways Act, R.S.O. 1990, c. P.49, as amended.
4. The local municipality shall be responsible for:
i) $100 \%$ of the construction of all sidewalks (Section 55 of the Municipal Act, 2001, as amended).
ii) The construction of that portion of storm sewers over and above that required for County road drainage, based on the following:

Local share \% = 100\% less County's Share \%
County Share $=$ (Theoretical pipe diameter to accommodate CRD*) $\times 100 \%$
Actual pipe diameter to accommodate full drainage area
*CRD - County Road Drainage
iii) $100 \%$ of the cost of all local services, such as water or sanitary sewerage works.
iv) $100 \%$ of that portion of the paved boulevard between curb and sidewalk beyond 0.5 m .
v) Land acquisition when required to accommodate road elements beyond that specified in Section 1).
vi) $50 \%$ of the construction of additional parking lanes.
vii) $100 \%$ of the construction of paved shoulders whether behind curbs and/or gutters or not.
viii) Engineering in proportion with the cost of its share of the project.
ix) There will be a $7 \%$ administration charge on County "in-house" (but not contracted) work.
5. The County shall enter into an agreement for any proposed reconstruction (under the auspices of Section 20(1) of the Municipal Act, 2001, as amended). Costs shall be borne according to this policy.

The current budget for this section in 2023 is proposed to be $\$ 481,000$ for pulverize and repave with no contingency for design work. To urbanize a County Road is approximately 1.5 times the budgeted amount. When necessary, staff will bring forward a recommendation on this project at a future date.

## RESOLUTIONS

## 4. Rural Ontario Municipal Association (ROMA) 2023 Conference

Recommendation: TTHAT the Operations Committee recommends that County Council approve a delegation request at the 2023 Rural Ontario Municipal Association (ROMA) Annual Conference with the Minister of Infrastructure to discuss growth related and shovel ready projects including County Road 51 (Petawawa Boulevard) in the Town of Petawawa and Campbell Drive in the Township of McNab/Braeside.

## Background

The 2023 ROMA Annual General Meeting and Conference is back live and in person for the first time in two years. In the past, the Province has invited municipalities to have requests to be a delegation at the conference by November 15.

Staff are looking to lobby for funding to assist with growth related and shovel ready projects as well as the proposed widening of County Road 51 (Petawawa Boulevard) and the assumption of Campbell Drive into the County Road System which will add significant challenges to the County's 10-year Asset Management Plan.

## BY-LAWS

## 5. Request for Road Assumption - Township of McNab/Braeside [Strategic Plan Goal No. 3]

Recommendation: THAT the Operations Committee recommends that County Council endorse the assumption of Campbell Drive into the County Road System, effective January 1, 2023, subject to the execution of maintenance agreements between the County of Renfrew and the Township of $\mathrm{McNab} / \mathrm{Braeside}$ with respect to maintenance related matters; AND FURTHER THAT a By-law be passed to amend By-law 10-15, being a By-law to Consolidate all By-laws with respect to Roads and Bridges included in the County Road System.

## Background

Attached for Committee's information as Appendix IV is a resolution dated May 3, 2022 from the Township of McNab/Braeside requesting road assumption for Campbell Drive (Reference map is attached as Appendix V).

The resulting Annual Average Daily Traffic (AADT) traffic counts from August 9 to 17, 2022, attached as Appendix VI was 1,346 vehicles. Also attached for information as Appendix VII is a Speed Study indicating that $84.8 \%$ of vehicles are travelling in excess of the posted speed limit.

The Department utilizes the Ontario Good Roads Association (OGRA) Road Rationalization criteria and weighting system, attached as Appendix VIII, in evaluating assumption requests. This document highlights the 12 criteria and associated weightings to assess whether or not a roadway meets upper tier road standards as an urban centre collector or an urban arterial extension. It also identifies a cumulative "cut-off" point rating of 6 for the evaluation process. Using the theory that the road must meet either the criteria for urban centre connector or the criteria for urban arterial extension worth 3 points (Criterion 7), plus all four criteria for traffic speed (Criterion 9), road surfaces (Criterion 10), traffic volumes (Criterion 11) and
road right-of-way (Criterion 12) worth a combination of 3 points, or another combination of criteria to have a total weight of 6 , this road meets the criteria as outlined by OGRA.

Attached as Appendix IX are the results for the roadway. A total of $69 \%$ was obtained using all criteria as outlined in the OGRA document. Using the five specific Criterion 7, 9, 10, 11 and 12, Campbell Drive scores 36 out of a possible 36 for a rating of $100 \%$. A total of $100 \%$ is required by the OGRA standards for an upper tier to assume the roadway.

Please note that this roadway is currently in poor condition and once it is part of the County Road System, this asset will affect the County's 10-year Asset Management Plan.

Historically, the following three principles have been employed in road rationalization reviews:

- Upper tier roads, that are primary transportation corridors, should provide continuous roadway services throughout the County;
- Upper tier roads should be capable of being upgraded to a reasonable standard, consistent with the service provided; and,
- Upper tier roads should represent the shortest practical route along existing roads and streets.

Since the County does not have regular maintenance operations on this roadway, it will be necessary to enter into an inter-municipal, cost-sharing arrangement with the Township of $\mathrm{McNab} / \mathrm{Braeside}$ with respect to maintenance operations such as winter control, street sweeping, etc. Similar agreements are currently in place with the Towns of Arnprior, Deep River and Renfrew.

The following summarizes the respective roles and responsibilities of the local municipality and the County:

## County of Renfrew

- approves signage within the right-of-way;
- issuance of right-of-way work permits;
- control of pedestrian crossings/traffic control signals (in keeping with policies);
- shares responsibility with the Town for storm sewer maintenance/ rehabilitation.


## Township of McNab/Braeside

- sidewalk construction and maintenance;
- underground infrastructure (e.g., watermains, sanitary sewers, storm sewers (shared with County));
- maintenance, installation, operation of streetlights;
- snow removal (County does not remove snow from its roadways);
- driveway entrances are the responsibility of the individual property owners.


## 6. Policy for Decorative Crosswalks [Strategic Plan Goal No. 3]

Recommendation: THAT the Operations Committee recommends that County Council pass a By-law approving Corporate Policy PW-18 - Decorative Crosswalks on County Roads which outlines the procedure for the request and approval of the installation of a decorative crosswalk.

## Background

Committee received a request for a decorative crosswalk at the August 9,2022 meeting. Staff were directed to develop a policy for future requests. Attached as Appendix X is a Draft Corporate Policy PW-18 for Decorative Crosswalks on County Roads.

Decorative crosswalks are typically understood to be crosswalks that include elements (colour, design, imagery, texture and/or material) that are considered aesthetic enhancements above and beyond standard crosswalk treatments. All requests for decorative crosswalks must be funded by the proponent for both installation and maintenance as well as have the endorsement of the Partner Municipality.

## 7. Operations Division

Attached as Appendix XI is the Operations Division Report, prepared by Mr. Richard Bolduc, Manager of Operations, providing an update on activities.

Department of Public Works \& Engineering

| Project Name/Municipality |  | Location menths |  | Description | Status/Schedule |  |  |  |  |  |  | Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | From | To Lenghs |  | Env. Assess | Survey | Design | Tender/RFP | Award | Const. Start | Const. End |  |
| ROAD RECONSTRUCTION/REHABLLTATION |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | Beachburg Road | Buchannan's Pit Entance | Urban Beginning 2.49 | Rehabilitation | 100\% | 100\% | 100\% | May | June | September | October | Design by Stantec; Construction by H \& H |
|  | Whitewater Region |  |  |  |  |  |  |  |  |  |  |  |
| 512 | Foymount Road | B257 | Verch Road 4.70 | Reconstruction | 100\% | 100\% | 95\% | March, 2023 | Apri, 2023 | July, 2023 | Nov., 2023 | Design by BTE; Coordinating Utilities; |
|  | Bonnechere Valley |  |  |  |  |  |  |  |  |  |  |  |
| BRIDGE/CULVERT RECONSTRUCTION/REHABILITATION |  |  |  |  |  |  |  |  |  |  |  |  |
| B002 | Bonnechere River Bridge | Admaston/Bromley (Bonnechere Road) |  | Rehabilitation | 100\% | 100\% | 100\% | 2021 | 2021 | May | August | Design by Stantec; Construction by Clearwater |
| B005 | Scollard Bridge | Admaston/Bromley (Pucker Street) |  | Superstructure Replacement | 100\% | 100\% | 100\% | May | June | July | Oct. 14 | Design by HP Engineering; Tender Closes May 26th |
| B022 | Indian River Bridge | Laurentian Valley (Sandy Beach Road) |  | Rehabilitation | 100\% | 100\% | 100\% | March | May | June | Nov. 14 | Design by WSP; Tender Closed April 19th |
| B056 | Colterman Bridge | Greater Madawaska (Colterman Road) |  | Clean and Paint | 100\% | 100\% | 100\% | May | June | October | October | Day Labour Project |
| B057 | Mount St. Patrick Bridge | Greater Madawaska (Mount St. Patrick Road) |  | Superstructure Replacement | 100\% | 100\% | 100\% | March | April | May | Oct. 25 | Design by HP Engineering; Construction by Coco Paving |
| B064 | Pilgrim Road Bridge | Brudenell, Lyndoch \& Raglan (Pilgrim Road) |  | Rehabilitation | 100\% | 100\% | 100\% | May | June | 2023 | 2023 | Design by JL Richards |
| B068 | Schimmins Creek Bridge | Brudenell, Lyndoch \& Raglan (Welk Road) |  | Clean and Paint | 100\% | 100\% | 100\% | May | June | September | October | Day Labour Project |
| B150 | Dam Lake Bridge | Madawaska Valley (Stanley Olsheski Road) |  | Clean and Paint | 100\% | 100\% | 100\% | May | June | August | October | Day Labour Project |
| B203 | Petawawa River Bridge | Petawawa (CR51 Petawawa Boulevard) |  | Rehabilitation | 100\% | 100\% | 100\% | March | April | May | Nov. 4 | Design by WSP; Construction by BEI |
| B257 | Harrington Creek Bridge | Bonnechere Valley (CR512 Foymount Road) |  | Replace w/ Culvert | 90\% | 100\% | 90\% | 2023 | 2023 | 2023 | 2023 | Design by BTE; Part of 512 Reconstruction |
| B319 | Bucholtz Bridge | Laurentian Valley (CR58 Round Lake Road) |  | Rehabilitation | 100\% | 100\% | 100\% | February | April | June | Oct. 14 | Design by McIntosh Perry; Construction by GMP; |
| C012 | Farquharson's Culvert | Admaston/Bromley (S. McNaughton Road) |  | Rehabilitation | 100\% | 100\% | 90\% | May | 2024 | 2024 | 2024 | Design by HP Engineering |
| C037 | Bagot Creek Culvert | Greater Madwaska (Lower Spruce Hedge Road) |  | Replace | 100\% | 100\% | 100\% | May | June | August | Oct. 14 | Design by HP Engineering; Construction by Day Labour |
| C040 | Snake River Culvert | Admaston/Bromley (CR8 Cobden Road/Main Street) |  | Rehabilitation | 100\% | 100\% | 30\% |  |  | 2024 | 2024 | Day Labour Project |
| C134 | Campbell Drive Culvert | $\mathrm{McNab} / \mathrm{Braeside}$ ( (Campbell Drive) |  | Rehabilitation | 100\% | 100\% | 90\% | May | 2024 | 2024 | 2024 | Design by HP Engineering |
| C137 | Hanson Creek Culverts | McNab/Braeside (Robertson Line) |  | Lining w/ Road Works | 90\% | 100\% | 90\% | May | 2023 | 2023 | 2023 | Design by WSP; Construction by Day Labour |
| C152 | Wadsworth Lake Culvert | Madawaska Valley (Old Barry's Bay Road) |  | Replace | 100\% | 100\% | 100\% | May | June | July | September | Design by HP Engineering |
| C197 | Etmanskie Swamp Culvert | Madawaska Valley (CR62 John Street) |  | Rehab or Replace | 90\% | 100\% | 60\% | April | 2023 | 2023 | 2023 | Design bv JL Richards; Construction by Day Labour |
| C269 | Jacks Lake Culverts | Killaloe, Hagarty \& Richards (CR58, Round Lake Road) |  | Replace | 100\% | 100\% | 100\% | April | May | July | July | Design by HP Engineering; Construction by Day Labour |
| C302 | Wingle Creek Twin Culverts | Killaloe, Hagarty \& Richards (Rochfort Road) |  | Replace | 100\% | 100\% | 60\% | May | June | August | August | Design Internal; Construction by Day Labour |
| FUTURE ENGINEERING |  |  |  |  |  |  |  |  |  |  |  |  |
| B007 | Butler Bridge | Admaston/Bromley (Butler Road) |  | Design for Rehabilitation | 90\% | 90\% | 40\% | May | June | 2023 | 2023 | Design by Stantec |
| B044 | Douglas Bridge | Admaston/Bromley (CR5 Stone Road) |  | Design for Rehabilitation | 30\% | 60\% | 25\% | July | August | 2023 | 2023 | Design TBA; DCS done in 2021 |
| B102 | Brennans Creek Bridge | Killaloe, Hagarty \& Richards (CR512 Queen Street) |  | Design for Rehabilitation | 50\% | 30\% | 10\% | May | June | 2023 | 2023 | Design by Stantec |
| B108 | Tramore Bridge | Killaloe, Hagarty \& Richards (Tramore Road) |  | Design for Rehabilitation | 30\% | 10\% | 0\% | August | August | 2023 | 2023 | Design TBA |
| B156 | Burnt Bridge | Brudenell, Lyndoch \& Raglan (Burnt Bridge Road) |  | Design for Rehabilitation | 30\% | 10\% | 0\% | June | June | 2023 | 2023 | Design TBA |
| B232 | Cochrane Creek Bridge | North Algona Wilberforce (Cement Bridge Road) |  | Design for Rehabilitation | 30\% | 10\% | 0\% | June | July | 2023 | 2023 | RFP for design issued |
| B310 | ski Hill Bridge | Laurentian Valley (CR58 Round Lake Road) |  | Design for Rehabilitation | 30\% | 60\% | 25\% | July | August | 2023 | 2023 | Design TBA; DCS done in 2021 |
| C001 | Berlanquet Creek Culvert | Admaston/Bromley (CR5 Stone Road) |  | Design for Replacement | 50\% | 20\% | 10\% | July | August | 2023 | 2023 | Design by HP Engineering |
| C025 | Borne Road Culvert | Laurentian Valley (CR58 Round Lake Road) |  | Design for Rehabilitation | 100\% | 100\% | 90\% | 2023 | 2023 | 2023 | 2023 | Design by WSP |
| C051 | Harris Creek Culvert | Admaston/Bromley (Proven Line) |  | Design for Replacement | 50\% | 30\% | 10\% | June | July | 2023 | 2023 | Internal Design; Geotech needed |
| C130 | Lochiel Creek Culvert North | McNab/Braeside (CR63 |  | Design for Replacement | 50\% | 30\% | 10\% | June | July | 2023 | 2023 | Design by Stantec |
| C191 | Dicks Road Culvert | Laurentian Valley (Dicks Road) |  | Design for Replacement | 50\% | 30\% | 10\% | June | July | 2023 | 2023 | Design by Stantec |
| C201 | Broomes Creek Culvert | Whitewater Region (CR7 Foresters Falls Road) |  | Detailed Design w/ Dam | 90\% | 80\% | 50\% | April | May | 2023 | 2023 | MCEA Done, Design by JLR |
| C204 | Bellowes Creek Culvert | Whitewater Region (CR12 Westmeath Road) |  | Design for Rehabilitation | 90\% | 60\% | 30\% | May | June | 2023 | 2023 | Design by WSP |
| C268 | St. Columbkille's Culvert | Laurentian Valley (CR58 Round Lake Road) |  | Design for Replacement | 50\% | 30\% | 10\% | May | June | 23 | 2023 | Design by Stantec |
| C325 | Neilson Creek Culvert | Bonnechere Valley (Clear Lake Road) |  | Design for Replacement | 50\% | 10\% | 10\% | May | June | 2023 | 2023 | Design by Stantec |
| 30 | Lake Dore Road | North Algona Wilberforce (From Highway 60 to Sperberg) |  | Design for Rehabilitation | 100\% | 100\% | 90\% | February | March | 2023 | 2023 | Design by Tatham |

perations Division Monthly Project Status Report - October 2022
Department of Public Works \& Engineering

| OPERATIONS TENDERS |  | Description | Term (Years) | Type | Specification | Tender | Award | Start | Complete | Status/Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |
| 1 | Pavement Marking | Paint/Glass Beads/Lines/Symbols | 1+(+1+1+1+1) | Equipment/Material | March | March | April | June | November | Ongoing |
| 2 | Street Sweeping | Winter/Debris Removal | 1 | Equipment | March | April | April | May | June | Complete |
| 3 | Manhole and Catch Basin Cleaning | Winter/Debris Removal | 1 | Equipment | March | April | April | June | June | Complete |
| 4 | Roadside Brushing | Tree/Brush Removal | 1 | Equipment | May | June | June | July | November | Ongoing |
| 5 | Steel Sign Post Quotation | Sign Installation Hardware | 1 | Material | March | April | April | May | August | Complete |
| 6 | Weed Control | Wild Parsnip/Poison Ivy | 5 | Equipment/Material | Complete | 2019 | 2019 | June | July | Complete |
| 7 | Signs \&Traffic Control Equipment | Road Signage | 1 | Material | March | April | April | May | October | Ongoing |
| 8 | Winter Sand | Winter Abrasives | 1 | Supply/Delivery/Process | June | July | August | August | October | Ongoing |
| 9 | Loader Rental | Winter Operations | 1 | Equipment | July | July | August | November | April | Complete |
| 10 | AVL Service Renewal | Automatic Vehicle Location | 10 | Application/Network/Data | May | 2020 | 2020 | June | 2030 | Complete |
| 11 | Shouldering | Granular/Sealing | 1 | Material/Installation | June | July | August | August | October | Ongoing |
| 12 | Calcium Chloride | Winter Operations | 1 | Material | September | September | October | October | October | Ongoing |
| 13 | Crack Sealing | Pavement Preservation | 1 | Material/Installation | May | July | September | September | October | Ongoing |
| 14 | Curb Repair | Preservation | 1 | Material/Repair | May | August | August | September | October | Ongoing |
| EQUIPMENT TENDERS |  |  |  |  |  |  |  |  |  |  |
|  | Tender | Description | Quantity | Type | Specification | Tender | Award | Delivery |  | Status/Comments |
| 1 | HDT (Heavy Duty Truck) 2021 | Combination Plow/Spreader | 1 | Replace | March | 2021 | 2021 | October |  | Awaiting Delivery |
| 2 | HDT (Heavy Duty Truck) 2022 | Combination Plow/Spreader | 1 | Replace | February | May | June | 2023 |  | Awaiting Delivery |
| 3 | LDT (Light Duty Truck(s)) | ( $7-1 / 2$ ton \& 1-3/4 ton 4WD) | 8 | Replace | February | March | April | December |  | Awaiting Delivery |
| 4 | Service Vehicle 2021 | PW Operations | 1 | New | March | 2021 | 2021 | July |  | Complete |
| 5 | Service Vehicle 2021 | PW - ES | 1 | New | March | 2021 | 2021 | June |  | Complete |
| 6 | Service Vehicle 2022 | PW Operations | 1 | Replace | February | June | August | December |  | Awaiting Delivery |
| 7 | Tractor | Tractor and Attachments | 1 | Replace | February | April | June | July |  | Complete |
| 8 | Backhoe | Backhoe Loader and Attachments | 1 | Replace | February | May | June | December |  | Awaiting Delivery |
| 9 | Enclosed Trailer | Construction Section | 1 | Replace | August | September | September | October |  | Ongoing |
| 10 | Dual Axle Float | 16 ft | 1 | Replace | August | September | September | October |  | Ongoing |
| 11 | Line Paint Machine | PW Operations | 1 | Replace | August | September | September | December |  | Ongoing |
| 12 | U-Body Water Tank | PW Operations - SWP | 1 | Replace | August | September | September | December |  | Ongoing |
| 13 | Sweeper Attachment | Tractor Mount-GP | 1 | Replace | May | July | August | October |  | Awaiting Delivery |
| 14 | Offset Roller | Shoulder Compaction | 1 | New | August | September | October | December |  | Ongoing |
| 15 | Shoulder Spreader | Shouldering Machine | 1 | New | August | September | October | December |  | Ongoing |
| 16 | Equipment Refurbishment(s) | As per Spring Inspection | Varies | Existing | May | May | June | September |  | Complete |
| 17 | AVL (Automatic Vehicle Location) | AVL/Telematics | Varies | New | April | May | June | September |  | Complete |
| HOUSING |  |  |  |  |  |  |  |  |  |  |
|  | Tender | Location | Type | Type | Design | Tender | Award | Start | Complete | Status/Comments |
| 1 | Repair - Salt Storage Shed | Calabogie Garage | Construct | Rehabilitation | 2022 | March | April | August | September | Complete |
| 2 | Repair - Sand Storage Dome/Salt Storage Shed | Calabogie Garage | Construct | Rehabilitation | 2022 | March | April | June | July | Complete |
| 3 | Repair - General Site | Cobden Patrol | Construct | Rehabilitation | 2022 | Internal | N/A | July | July | Complete |
|  |  |  |  |  |  |  |  |  |  |  |
| ROAD MAINTENANCE AGREEMENTS/FACILITY AGREEMENTS |  |  |  |  |  |  |  |  |  |  |
|  | Service Provider | Location | Year | Type | Start | Complete | Term |  |  | Status/Comments |
| 1 | Town of Arnprior | County Road 1, County Road 2 | 2022 | Winter Road Maintenance | 2022 | 2023 | 1 |  |  | Complete |
| 2 | Town of Deep River | County Road 72, County Road 73 | 2020 | Winter Road Maintenance | 2020 | 2030 | 10 |  |  | Complete |
| 3 | Town of Renfrew | County Road 20, County Road 52 | 2019 | Winter Road Maintenance | 2019 | 2029 | 10 |  |  | Complete |
| 4 | Township of Carlow/Mayo | County Road 517 | 2022 | Winter Road Maintenance | 2022 | 2023 | Annual |  |  | Complete |
| 5 | Contractor | County Road 635 | 2022 | Winter Road Maintenance | 2022 | 2023 | Annual |  |  | Complete |
| 6 | Algonquins of Pikwakanagan | Golden Lake | 2022 | Use of facilities and materials | 2022 | 2027 | 5 |  |  | Complete |
| 7 | Bonnechere Valley | Foymount | 2022 | Use of facilities and materials | 2022 | 2027 | 5 |  |  | Complete |


| Project Name/Municipality |  |  | ation | Lengths | Description | RFP/Tender | Const. Award | Const. Start | Const. End | Comments |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | From | To |  |  |  |  |  |  |  |
| ROAD RECONSTRUCTION/REHABILITATION |  |  |  |  |  |  |  |  |  |  |
| 1 | Madawaska Street | B258 W Exp Jnt | Elgin Street | 0.51 | Rehabilitation | May | June | August | September | Thomas Cavanagh Construction Ltd., Ashton |
|  | Arnprior \& McNab/Braeside |  |  |  |  |  |  |  |  |  |
| 1 | River Road | County Road 10 (Division Street) | Usborne Street | 0.50 | Rehabilitation | 2021 | 2021 | June | August | H\&H Construction Inc., Petawawa |
|  | McNab/Braeside |  |  |  |  |  |  |  |  |  |
| 1 | River Road | 1.1 km west of Henry Crescent | Storie Road | 2.36 | Rehabilitation | April | June | August | September | B.R. Fulton Construction |
|  | McNab/Braeside |  |  |  |  |  |  |  |  |  |
| 2 | White Lake Road | Mountain View Road | Waba Creek Bridge E Exp Jnt | 5.44 | Rehabilitation | April | May | July | August | Thomas Cavanagh Construction Ltd., Ashton |
|  | McNab/Braeside |  |  |  |  |  |  |  |  |  |
| 7 | Foresters Falls Road | Harriet Street (urban begins) | Beginning of semi-urban | 0.65 | Rehabilitation | May | June | August | October | Greenwood Paving (Pembroke) Ltd., Pembroke |
|  | Whitewater Region |  |  |  |  |  |  |  |  |  |
| 13 | Mountain Road | Micksburg Road | Stafford Third Line | 2.78 | Rehabilitation | April | May | August | September | H\&H Construction Inc., Petawawa |
|  | Laurentian Valley |  |  |  |  |  |  |  |  |  |
| 23 | Highland Road | Renfrew/Lanark County Line | Sawmill Road | 1.51 | Rehabilitation | April | May | July | August | Thomas Cavanagh Construction Ltd., Ashton |
|  | McNab/Braeside |  |  |  |  |  |  |  |  |  |
| 24 | White Water Road | Highway 17 | County Road 40 (Greenwood Road) | 2.45 | Rehabilitation | May | June | September | October | H\&H Construction Inc., Petawawa |
|  | Laurentian Valley |  |  |  |  |  |  |  |  |  |
| 29 | Drive-In Road | City of Pembroke (South Limits) | Clearview Crescent | 2.15 | Rehabilitation | May | June | August | September | Greenwood Paving (Pembroke) Ltd., Pembroke |
|  | Laurentian Valley |  |  |  |  |  |  |  |  |  |
| 62 | Combermere Road | Combermere South Urbam Limit | County Road 515 (Palmer Road) | 1.01 | Rehabilitation | March | May | July | July | Greenwood Paving (Pembroke) Ltd., Pembroke |
|  | Madawaska Valley |  |  |  |  |  |  |  |  |  |
| 65 | Centennial Lake Road | Black Donald Access Point | Deer Mountain Road | 4.29 | Rehabilitation | March | April | July | August | Greenwood Paving (Pembroke) Ltd., Pembroke |
|  | Greater Madawaska |  |  |  |  |  |  |  |  |  |
| 67 | Simpson Pit Road | Buckhill Road | County Road 58 (Round Lake Road) | 1.42 | Rehabilitation | March | May | June | July | R.G.T. Clouthier Construction Limited, Pembroke |
|  | Killaloe, Hagarty and Richards |  |  |  |  |  |  |  |  |  |
| 508 | Calabogie Road | Mill Street | County Road 511 (Lanark Road) | 1.94 | Rehabilitation | March | May | June | June | Thomas Cavanagh Construction Limited, Ashton |
|  | Greater Madawaska |  |  |  |  |  |  |  |  |  |
| 512 | Foymount Road | County Road 66 (Opeongo Road) | Hubers Road | 3.68 | Rehabilitation | May | June | August | September | R.G.T. Clouthier Construction Limited, Pembroke |
|  | Brudenell Lyndoch \& Raglan |  |  |  |  |  |  |  |  |  |
| 517 | Dafoe Road | Serran Road | County Road 62 (Combermere Road) | 3.22 | Rehabilitation | March | April | September | October | Greenwood Paving (Pembroke) Ltd., Pembroke |
|  | Madawaska Valley |  |  |  |  |  |  |  |  |  |
| Various | Scratchcoat | Various Locations | Various Locations |  | Scratch Coat Paving | April | May | June | September | Bonnechere Excavating Inc., Renfrew |
|  | Various Locations |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |


| 2022 CAPITAL PROGRAM-ROADS/BRIDGES |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Road \# | Location | From | то | Length (km) | $\begin{gathered} \underline{2022} \\ \text { BUDGET } \end{gathered}$ | October Projected | Variance | Carry Over |
| Road Reconstruction/Rehabilitation |  |  |  |  |  |  |  |  |  |
| Note: Limits and Length of projects are approximate and subject to revision based on final design and budgets |  |  |  |  |  |  |  |  |  |
| 1 |  | Madawaska Street | B258 W Exp Jnt | Elgin Street | 0.51 | 159,824 | 259,000 | 99,176 | 0 |
|  |  |  |  |  |  |  |  |  |  |
|  | 1 | Arnprior River Road | County Road 10 (Division Street) | Usburne Street | 0.50 | 520,000 | 520,000 | 0 | 0 |
|  |  | McNab/Braeside |  |  |  |  |  |  |  |
|  | 1 | River Road | 1.1km West of Henry Crescent | Storie Road | 2.36 | 774,080 | 932,000 | 157,920 | 0 |
|  |  | McNab/Braeside | Mountain View Road |  |  |  |  |  |  |
|  | 2 | White Lake Road McNab/Braeside |  | Waba Creek Bridge E Exp Jnt | 5.44 | 1,088,684 | 1,472,000 | 383,316 | 0 |
|  |  |  |  |  |  |  |  |  |  |
|  | 7 | Foresters Falls Road Whitewater Region | Harriet Street (urban begins) | Beginning of semi-urban | 0.65 | 357,500 | 712,000 | 354,500 | 0 |
|  |  |  |  |  |  |  |  |  |  |
|  | 13 | Mountain Road | Micksburg Road | Stafford Third Line | 2.78 | 597,700 | 660,000 | 62,300 | 0 |
|  |  | Laurentian Valley |  |  |  |  |  |  |  |
|  | 21 | Beachburg Road | Buchannan's Pit Entance (1046) | Urban Beginning | 2.49 | 870,707 | 1,369,000 | 498,293 | 0 |
|  |  |  |  |  |  |  |  |  |  |
|  | 23 | Highland Road McNab/Braeside | Renfrew/Lanark Line | Sawmill Road | 1.51 | 324,650 | 314,000 | -10,650 | 0 |
|  |  |  |  |  |  |  |  |  |  |
|  | 24 | White Water Road | Highway 17 | County Road 40 (Greenwood Road) | 2.45 | 826,560 | 942,000 | 115,440 | 0 |
|  |  | Laurentian Valley |  |  |  |  |  |  |  |
|  | 29 |  | City of Pembroke (South Limits) | Clearview Crescent | 2.15 | 382,700 | 830,000 | 447,300 | 0 |
|  |  | Laurentian Valley |  |  |  |  |  |  |  |
|  | 62 | Combermere Road | Combermere S Urban Lt | County Road 515 (Palmer Road) | 1.01 | 62,953 | 145,000 | 82,047 | 0 |
|  |  | Madawaska Valley |  |  |  |  |  |  |  |
|  | 65 | Centennial Lake Road Greater Madawaska | Black Donald Access Point | Deer Mountain Road | 4.29 | 1,128,270 | 1,256,000 | 127,730 | 0 |
|  |  |  |  |  |  |  |  |  |  |
|  | 67 | Greater Madawaska <br> Simpson Pit Road | Buck Hill Road | County Road 58 (Round Lake Road) | 1.42 | 781,000 | 871,000 | 90,000 | 0 |
|  | 508 | Killaloe, Hagarty and Richards |  |  |  |  |  |  |  |
|  |  | Calabogie Road Greater Madawaska | Mill Street | County Road 511 (Lanark Road) | 1.94 | 636,320 | 855,000 | 218,680 | 0 |
|  |  |  |  |  |  |  |  |  |  |
|  | 512 | Foymount Road <br> Brudenell Lyndoch \& Raglan | County Road 66 (Opeongo Road) | Hubers Road | 3.68 | 846,400 | 1,509,000 | 662,600 | 0 |
|  |  |  |  |  |  |  |  |  |  |
|  | 512 | Foymount Road | B257 | Verch Road | 4.70 | 2,336,180 | 500,000 | $-1,836,180$ | 1,836,180 |
|  |  | Bonnechere Valley |  |  |  |  |  |  |  |
|  | 517 | Dafoe Road | Serran Road | County Road 62 (Combermere Road) | 3.22 | 1,134,484 | 1,040,000 | -94,484 | 0 |
|  |  |  |  |  |  |  |  |  |  |
|  |  | Scratch Coat Paving | Various Locations |  |  | 737,924 | 737,924 | 0 | 0 |
|  |  | Active Transportation | Various Locations |  |  | 150,000 | 150,000 | 0 | 0 |
|  |  |  | ROAD RECONSTRUCTION/REHABILITATION TOTALS |  | 41.10 | 13,715,936 | 15,073,924 | 1,357,988 | 1,836,180 |
|  | Bridge/Culvert Reconstruction/Rehabilitation |  |  |  |  |  |  |  |  |
|  | Structure No. | Structure Name | Location |  |  | $\frac{2022}{\text { BUDGET }}$ | October Projected | Variance | Carry Over |
|  | B002 | Bonnechere River Bridge | Admaston/Bromley (Bonnechere Road) |  |  | 350,000 | 350,000 | 0 | 0 |
|  | B005 | Scollard Bridge | Admaston/Bromley (Pucker Street) |  |  | 600,000 | 690,000 | 90,000 | 0 |
|  | B022 | Indian River Bridge | Laurentian Valley (Sandy Beach Road) |  |  | 1,200,000 | 1,425,000 | 225,000 | 0 |
|  | B056 | Colterman Bridge | Greater Madawaska (Colterman Road) |  |  | 100,000 | 100,000 | 0 | 0 |
|  | B057 | Mount St. Patrick Bridge | Greater Madawaska (Mount St. Patrick Road) |  |  | 800,000 | 898,000 | 98,000 | 0 |
|  | B064 | Pilgrim Road Bridge | Brudenell, Lyndoch \& Raglan (Pilgrim Road) |  |  | 180,000 | 40,692 | -139,308 | 139,308 |
|  | B068 | Schimmins Creek Bridge | Brudenell, Lyndoch \& Raglan (Welk Road) |  |  | 100,000 | 100,000 | 0 | 0 |
|  | B150 | Dam Lake Bridge | Madawaska Valley (Stanley Olsheski Road) |  |  | 100,000 | 100,000 | 0 | 0 |
|  | B203 | Petawawa River Bridge | Petawawa (CR51 Petawawa Boulevard) |  |  | 1,300,000 | 2,101,000 | 801,000 | 0 |
|  | B257 | Harrington Creek Bridge | Bonnechere Valley (CR512 Foymount Road) |  |  | 800,000 | 0 | -800,000 | 800,000 |
|  | B319 | Bucholtz Bridge | Laurentian Valley (CR58 Round Lake Road) |  |  | 950,000 | 1,000,000 | 50,000 | 0 |
|  | C012 | Farquharson's Culvert | Admaston/Bromley (S. McNaughton Road) |  |  | 135,000 | 38,000 | -97,000 | 97,000 |
|  | C037 | Bagot Creek Culvert | Greater Madwaska (Lower Spruce Hedge Road) |  |  | 342,000 | 315,000 | -27,000 | 0 |
|  | C040 | Snake River Culvert | Admaston/Bromley (CR8 Cobden Road/Main Street) |  |  | 108,000 | 40,000 | -68,000 | 0 |
|  | C134 | Campbell Drive Culvert | $\mathrm{McNab} / \mathrm{Braeside}$ (Campbell Drive) |  |  | 585,000 | 38,000 | -547,000 | 547,000 |
|  | C137 | Hanson Creek Culverts | McNab/Braeside (Robertson Line) |  |  | 162,000 | 80,000 | -82,000 | 82,000 |
|  | C152 | Wadsworth Lake Culvert | Madawaska Valley (Old Barry's Bay Road) |  |  | 252,000 | 252,000 | 0 | 0 |
|  | C197 | Etmanskie Swamp Culvert | Madawaska Valley (CR62 John Street) |  |  | 1,100,000 | 100,000 | $-1,000,000$ | 1,000,000 |
|  | C269 | Jacks Lake Culverts | Killaloe, Hagarty \& Richards (CR58, Round Lake Road) |  |  | 180,000 | 150,000 | -30,000 | 0 |
| C302 |  | Wingle Creek Twin Culverts | Killaloe, Hagarty \& Richards (Rochfort Road) |  |  | 180,000 | 150,000 | -30,000 | 0 |
|  |  | General Bridge Repairs | BRIDGE/CULVERT RECONSTRUCTION/REHABILITATION TOTALS |  |  | 200,000 | 200,000 | 0 | 0 |
|  |  | 9,724,000 |  |  |  | 8,167,692 | -1,556,308 | 2,665,308 |
| Future Engineering |  |  |  |  |  |  |  |  |  |
|  | ID |  | Name | Location |  |  | $\begin{gathered} \underline{2022} \\ \text { BUDGET } \end{gathered}$ | October Projected | Variance | Carry Over |
|  | B007 | Butler Bridge | Admaston/Bromley (Butler Road) |  |  | 100,000 | 53,000 | -47,000 | 0 |
|  | B044 | Douglas Bridge | Admaston/Bromley (CR5 Stone Road) |  |  | 45,000 | 40,000 | -5,000 | 0 |
|  | B102 | Brennans Creek Bridge | Killaloe, Hagarty \& Richards (C5512 Queen Street) |  |  | 54,000 | 36,000 | -18,000 | 0 |
|  | B108 | Tramore Bridge | Killaoe, Hagarty \& Richards (Tramore Road) |  |  | 40,000 | 35,000 | -5,000 | 0 |
|  | B156 | Burnt Bridge | Brudenell, Lyndoch \& Raglan (Burnt Bridge Road) |  |  | 25,000 | 25,000 | 0 | 0 |
|  | B232 | Cochrane Creek Bridge | North Algona Wilberforce (Cement Bridge Road) |  |  | 50,000 | 50,000 | 0 | 0 |
|  | B310 | Ski Hill Bridge | Laurentian Valley (CR58 Round Lake Road) |  |  | 30,000 | 30,000 | 0 | 0 |
|  | C001 | Berlanquet Creek Culvert | Admaston/Bromley (CR5 Stone Road) |  |  | 38,500 | 32,000 | -6,500 | 0 |
|  | C025 | Borne Road Culvert | Laurentian Valley (CR58 Round Lake Road) |  |  | 30,000 | 30,000 | 0 | 0 |
|  | C051 | Harris Creek Culvert | Admaston/Bromley (Proven Line) |  |  | 20,000 | 20,000 | 0 | 0 |
|  | C130 | Lochiel Creek Culvert North | McNab/Braeside (CR63 |  |  | 33,500 | 33,500 | 0 | 0 |
|  | C191 | Dicks Road Culvert | Laurentian Valley (Dicks Road) |  |  | 20,000 | 20,000 | 0 | 0 |
|  | C201 | Broomes Creek Culvert | Whitewater Region (CR7 Foresters Falls Road) |  |  | 100,000 | 100,000 | 0 | 0 |
|  | C204 | Bellowes Creek Culvert | Whitewater Region (CR12 Westmeath Road) |  |  | 30,000 | 30,000 | 0 | 0 |
|  | C268 | St. Columbkille's Culvert | Laurentian Valley (CR58 Round Lake Road) |  |  | 75,000 | 54,500 | -20,500 | 0 |
|  | C325 | Neilson Creek Culvert | Bonnechere Valley (Clear Lake Road) |  |  | 50,000 | 36,000 | -14,000 | 0 |
| 30 |  | Lake Dore Road | North Algona Wilberforce (From Highway 60 to Sperberg) |  |  | 100,000 | 140,000 | 40,000 | 0 |
|  |  | FUTURE ENGINEERING TOTALS |  | 841,000 | 765,000 | -76,000 | 0 |
| Traffic Signals - Upgrades |  |  | SAFETY DEVICES TOTALS |  |  | 0 | 0 | 0 | 0 |
|  |  |  |  | 0 | 0 | 0 | 0 |
| CAPITAL PROGRAM TOTAL: |  |  |  |  |  | 24,280,936 | 24,006,616 | -274,320 | 4,501,488 |

From: Dave Unrau
Sent: September 27, 2022 8:49 AM
To: Lee Perkins
Cc: Craig Kelley; Town of Petawawa
Subject: Murphy Road Urbanization
Importance: High

As discussed previously, I presented the report on the cost sharing for the Murphy Road Urbanization to Council last night. Their recommendation is to award the contract to Jp2g Consultant Ltd in the amount of $\$ 46,200+$ HST. The cost sharing between the Town of Petawawa and the County of Renfrew will be one of the deliverables from this contract. An invoice will then be issued to the County when the work is completed based on the derived cost sharing.

Thank you for all your help on this matter.
I will be in contact with you to arrange a kick-off meeting for this contract.

David Unrau, P. Eng, P.M.P
Director of Public Works
Town of Petawawa

## COUNTY OF RENFREW

## BY-LAW NUMBER

## A BY-LAW TO AMEND BY-LAW 10-15, BEING A BY-LAW TO CONSOLIDATE ALL BY-LAWS WITH RESPECT TO ROADS AND BRIDGES INCLUDED IN THE COUNTY ROAD SYSTEM

WHEREAS By-law 10-15 was passed in February 2015 establishing the County Road System and designating the roads and bridges in the municipality that formed the County Road System;

AND WHEREAS under Section 52(4) of the Municipal Act, 2001, S.O. 2001, c.25, as amended, an upper-tier municipality may add a highway, which includes a bridge, to its system.

NOW THEREFORE the Council of the Corporation of the County of Renfrew hereby enacts:

1. That Schedule ' $B$ ' of By-law 10-15 be amended by the addition of Campbell Drive to the County Road System and be designated as a County Road effective January 1, 2023.
2. That this By-law shall come into force and take effect upon the passing thereof.

READ a first time this 26th day of October 2022.
READ a second time this 26th day of October 2022.
READ a third time and finally passed this 26th day of October 2022.


Regular Council Meeting Resolution Form

| Date: May 3, 2022 | No: | RESOLUTION - 179-2022 |
| :--- | :--- | :--- |
| Moved by Deputy Mayor Brian Armsden | Disposition: | CARRIED |
| Seconded by Councillor Heather Lang | Item No: | 11.2 |

Description: Transfer of Campbell Drive to the County of Renfrew

## RESOLUTION:

THAT Council request the transfer of Campbell Drive from Usborne Street to Highway 417 to the County of Renfrew.


Recorded Vote Requested by:

|  | Yea | Nay |
| :--- | :--- | :--- |
| T. Peckett | - | - |
| B. Armsden | - | - |
| H. Lang | - | - |
| S. Brum | - | - |
| O. Jacob | - | - |

Declaration of Pecuniary Interest:

Disclosed his/her/their interest(s), vacated he/her/their seat(s), abstained from discussion and did not vote


Latitude: 0' 0.0000 South

| Start | 08-Aug-22 |  |  | Tue |  | Wed |  | Thu |  | Fri |  | Sat |  | Sun |  | Week Average |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Time | SB |  | NB | SB | NB | SB | NB | SB | NB | SB | NB | SB | NB | SB | NB | SB | NB |
| 12:00 AM |  | * | * | * | * | 0 | 4 | 1 | 2 | 0 | 1 | 9 | 2 | 4 | 7 | 3 | 3 |
| 01:00 |  | * | * | * | * | 0 | 0 | 0 | 1 | 2 | 0 | 2 | 2 | 2 | 3 | 1 | 1 |
| 02:00 |  | * | * | * | * | 2 | 0 | 0 | 0 | 2 | 2 | 2 | 1 | 1 | 3 | 1 | 1 |
| 03:00 |  | * | * | * | * | 1 | 0 | 2 | 0 | 1 | 0 | 1 | 2 | 1 | 2 | 1 | 1 |
| 04:00 |  | * | * | * | * | 9 | 0 | 9 | 1 | 10 | 1 | 1 | 0 | 1 | 0 | 6 | 0 |
| 05:00 |  | * | * | * | * | 64 | 5 | 55 | 5 | 34 | 3 | 4 | 2 | 1 | 2 | 32 | 3 |
| 06:00 |  | * | * | * | * | 59 | 13 | 75 | 12 | 68 | 15 | 13 | 12 | 7 | 6 | 44 | 12 |
| 07:00 |  | * | * | * | * | 59 | 25 | 66 | 27 | 49 | 24 | 25 | 18 | 13 | 10 | 42 | 21 |
| 08:00 |  | * | * | * | * | 57 | 35 | 57 | 38 | 44 | 37 | 24 | 30 | 19 | 19 | 40 | 32 |
| 09:00 |  | * | * | * | * | 47 | 46 | 48 | 29 | 46 | 36 | 42 | 31 | 33 | 23 | 43 | 33 |
| 10:00 |  | * | * | * | * | 32 | 43 | 37 | 36 | 41 | 38 | 34 | 37 | 52 | 34 | 39 | 38 |
| 11:00 |  | * | * | * | * | 42 | 42 | 40 | 39 | 31 | 42 | 40 | 49 | 47 | 47 | 40 | 44 |
| 12:00 PM |  | * | * | * | * | 33 | 48 | 37 | 31 | 41 | 42 | 24 | 53 | 44 | 66 | 36 | 48 |
| 01:00 |  | * | * | * | * | 36 | 33 | 44 | 33 | 42 | 47 | 33 | 43 | 59 | 40 | 43 | 39 |
| 02:00 |  | * | * | * | * | 33 | 42 | 29 | 45 | 44 | 65 | 29 | 52 | 62 | 51 | 39 | 51 |
| 03:00 |  | * | * | 53 | 60 | 64 | 64 | 52 | 81 | 44 | 100 | 27 | 48 | 52 | 40 | 49 | 66 |
| 04:00 |  | * | * | 49 | 92 | 47 | 86 | 39 | 93 | 50 | 98 | 29 | 40 | 42 | 48 | 43 | 76 |
| 05:00 |  | * | * | 42 | 83 | 50 | 90 | 36 | 78 | 31 | 85 | 39 | 32 | 36 | 20 | 39 | 65 |
| 06:00 |  | * | * | 25 | 35 | 23 | 43 | 26 | 50 | 34 | 52 | 27 | 36 | 48 | 26 | 30 | 40 |
| 07:00 |  | * | * | 21 | 24 | 15 | 39 | 20 | 35 | 20 | 29 | 28 | 21 | 43 | 27 | 24 | 29 |
| 08:00 |  | * | * | 16 | 21 | 21 | 40 | 19 | 37 | 24 | 38 | 16 | 23 | 23 | 23 | 20 | 30 |
| 09:00 |  | * | * | 7 | 22 | 9 | 20 | 14 | 23 | 13 | 21 | 10 | 22 | 11 | 19 | 11 | 21 |
| 10:00 |  | * | * | 5 | 7 | 7 | 21 | 8 | 17 | 10 | 8 | 13 | 11 | 2 | 8 | 8 | 12 |
| 11:00 |  | * | * | 0 | 5 | 2 | 4 | 5 | 7 | 2 | 17 | 3 | 5 | 2 | 7 | 2 | 8 |
| Lane | 0 | 0 | 0 | 218 | 349 | 712 | 743 | 719 | 720 | 683 | 801 | 475 | 572 | 605 | 531 | 636 | 674 |
| Day |  | 0 |  | 567 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AM Peak |  | - | - | - | - | 05:00 | 09:00 | 06:00 | 11:00 | 06:00 | 11:00 | 09:00 | 11:00 | 10:00 | 11:00 | 06:00 | 11:00 |
| Vol. |  | - | - | - | - | 64 | 46 | 75 | 39 | 68 | 42 | 42 | 49 | 52 | 47 | 44 | 44 |
| PM Peak |  | - | - | 15:00 | 16:00 | 15:00 | 17:00 | 15:00 | 16:00 | 16:00 | 15:00 | 17:00 | 12:00 | 14:00 | 12:00 | 15:00 | 16:00 |
| Vol. |  | - | - | 53 | 92 | 64 | 90 | 52 | 93 | 50 | 100 | 39 | 53 | 62 | 66 | 49 | 76 |

Public Works and Engineering
Campbell Drive - 1.5km south of Usborne Street

Latitude: 0' 0.0000 South

| Start | 15-Aug-22 |  | Tue |  | Wed |  | Thu |  | Fri |  | Sat |  | Sun |  | Week Average |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Time | SB | NB | SB | NB | SB | NB | SB | NB | SB | NB | SB | NB | SB | NB | SB | NB |
| 12:00 AM | 1 | 1 | 0 | 0 | 0 | 4 | * | * | * | * | * | * | * | * | 0 | 2 |
| 01:00 | 0 | 0 | 0 | 1 | 0 | 1 | * | * | * | * | * | * | * | * | 0 | 1 |
| 02:00 | 1 | 0 | 0 | 0 | 1 | 1 | * | * | * | * | * | * | * | * | 1 | 0 |
| 03:00 | 1 | 0 | 2 | 0 | 1 | 0 | * | * | * | * | * | * | * | * | 1 | 0 |
| 04:00 | 13 | 0 | 9 | 0 | 10 | 0 | * | * | * | * | * | * | * | * | 11 | 0 |
| 05:00 | 55 | 12 | 57 | 3 | 48 | 3 | * | * | * | * | * | * | * | * | 53 | 6 |
| 06:00 | 84 | 19 | 71 | 21 | 69 | 15 | * | * | * | * | * | * | * | * | 75 | 18 |
| 07:00 | 72 | 17 | 71 | 21 | 72 | 11 | * | * | * | * | * | * | * | * | 72 | 16 |
| 08:00 | 48 | 33 | 59 | 34 | 45 | 40 | * | * | * | * | * | * | * | * | 51 | 36 |
| 09:00 | 21 | 39 | 43 | 45 | 44 | 50 | * | * | * | * | * | * | * | * | 36 | 45 |
| 10:00 | 27 | 40 | 44 | 37 | 37 | 46 | * | * | * | * | * | * | * | * | 36 | 41 |
| 11:00 | 31 | 49 | 38 | 38 | 37 | 41 | * | * | * | * | * | * | * | * | 35 | 43 |
| 12:00 PM | 44 | 31 | 39 | 36 | 31 | 39 | * | * | * | * | * | * | * | * | 38 | 35 |
| 01:00 | 37 | 30 | 32 | 40 | 38 | 33 | * | * | * | * | * | * | * | * | 36 | 34 |
| 02:00 | 30 | 36 | 42 | 44 | * | * | * | * | * | * | * | * | * | * | 36 | 40 |
| 03:00 | 51 | 66 | 40 | 62 | * | * | * | * | * | * | * | * | * | * | 46 | 64 |
| 04:00 | 42 | 88 | 37 | 118 | * | * | * | * | * | * | * | * | * | * | 40 | 103 |
| 05:00 | 43 | 92 | 39 | 79 | * | * | * | * | * | * | * | * | * | * | 41 | 86 |
| 06:00 | 36 | 42 | 38 | 76 | * | * | * | * | * | * | * | * | * | * | 37 | 59 |
| 07:00 | 17 | 30 | 24 | 36 | * | * | * | * | * | * | * | * | * | * | 20 | 33 |
| 08:00 | 9 | 23 | 22 | 36 | * | * | * | * | * | * | * | * | * | * | 16 | 30 |
| 09:00 | 10 | 14 | 13 | 24 | * | * | * | * | * | * | * | * | * | * | 12 | 19 |
| 10:00 | 2 | 6 | 4 | 6 | * | * | * | * | * | * | * | * | * | * | 3 | 6 |
| 11:00 | 1 | 4 | 2 | 9 | * | * | * | * | * | * | * | * | * | * | 2 | 6 |
| Lane | 676 | 672 | 726 | 766 | 433 | 284 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 698 | 723 |
| Day |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AM Peak | 06:00 | 11:00 | 06:00 | 09:00 | 07:00 | 09:00 | - | - | - | - | - | - | - | - | 06:00 | 09:00 |
| Vol. | 84 | 49 | 71 | 45 | 72 | 50 | - | - | - | - | - | - | - | - | 75 | 45 |
| PM Peak | 15:00 | 17:00 | 14:00 | 16:00 | 13:00 | 12:00 | - | - | - | - | - | - | - | - | 15:00 | 16:00 |
| Vol. | 51 | 92 | 42 | 118 | 38 | 39 | - | - | - | - | - | - | - | - | 46 | 103 |


| Comb. | 1348 | 2059 | 2172 | 1439 | 1484 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Total |  |  |  |  |  |
| ADT | ADT 1,346 | AADT 1,346 |  |  |  |

# County of Renfrew <br> Public Works and Engineering 

Appendix VII

## Campbell Drive - 1.5km south of Usborne Street Speed Study

Site Code: Station ID:


## Public Works and Engineering

## Campbell Drive - 1.5 km south of Usborne Street Speed Study

Site Code: Station ID:


## Public Works and Engineering

## Campbell Drive - 1.5 km south of Usborne Street Speed Study

Site Code: Station ID:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0 | South |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SB, NB |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Start | 1 | 25 | 33 | 41 | 49 | 57 | 65 | 73 | 81 | 89 | 97 | 105 | 113 | 121 |  |
| Time | 24 | 32 | 40 | 48 | 56 | 64 | 72 | 80 | 88 | 96 | 104 | 112 | 120 | 9999 | Total |
| 08-11- |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 3 |
| 01:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 02:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 03:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 2 |
| 04:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 4 | 2 | 0 | 1 | 0 | 10 |
| 05:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 14 | 8 | 14 | 15 | 3 | 0 | 60 |
| 06:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 11 | 23 | 34 | 9 | 7 | 1 | 87 |
| 07:00 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 17 | 12 | 22 | 26 | 8 | 1 | 3 | 93 |
| 08:00 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 13 | 19 | 21 | 20 | 11 | 5 | 1 | 95 |
| 09:00 | 0 | 0 | 1 | 0 | 0 | 0 | 5 | 9 | 20 | 13 | 21 | 6 | 1 | 1 | 77 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 8 | 28 | 10 | 16 | 6 | 1 | 1 | 73 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 10 | 22 | 20 | 17 | 4 | 0 | 1 | 79 |
| 12 PM | 1 | 0 | 0 | 0 | 0 | 2 | 3 | 10 | 17 | 10 | 14 | 6 | 3 | 2 | 68 |
| 13:00 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 13 | 20 | 16 | 18 | 2 | 3 | 1 | 77 |
| 14:00 | 0 | 0 | 0 | 1 | 0 | 3 | 7 | 8 | 17 | 16 | 17 | 3 | 2 | 0 | 74 |
| 15:00 | 0 | 0 | 0 | 0 | 6 | 0 | 7 | 14 | 30 | 20 | 37 | 14 | 3 | 2 | 133 |
| 16:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 22 | 30 | 51 | 13 | 1 | 1 | 132 |
| 17:00 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 11 | 21 | 37 | 27 | 8 | 6 | 1 | 114 |
| 18:00 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 5 | 11 | 14 | 21 | 16 | 4 | 2 | 76 |
| 19:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 7 | 15 | 11 | 12 | 6 | 2 | 1 | 55 |
| 20:00 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 6 | 12 | 17 | 9 | 6 | 2 | 2 | 56 |
| 21:00 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 5 | 15 | 5 | 8 | 0 | 1 | 1 | 37 |
| 22:00 | 0 | 0 | 0 | 0 | 2 | 0 | 4 | 4 | 5 | 5 | 4 | 1 | 0 | 0 | 25 |
| 23:00 | 0 | 0 | 0 | 0 |  | 0 | 2 | 2 | 3 | 2 | 2 | 0 | 0 | 1 | 12 |
| Total | 1 | 0 | 1 | 1 | 8 | 15 | 51 | 165 | 317 | 305 | 371 | 135 | 47 | 22 | 1439 |
| Daily | 15th Percentile 50th Percentile 85th Percentile 95th Percentile |  |  |  | 78 KPH 91 KPH |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | 103 KPH |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | 110 KPH |  |  |  |  |  |  |  |  |  |
|  | Mean Speed(Average) : |  |  |  |  |  | $\begin{array}{r} 92 \mathrm{KPH} \\ 90-104 \mathrm{KPH} \end{array}$ |  |  |  |  |  |  |  |  |  |  |
|  | 15 KPH Pace Speed |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | 638 |  |  |  |  |  |  |  |  |  |  |
|  | Percent in Pace |  |  |  | $44.3 \%$1197 |  |  |  |  |  |  |  |  |  |  |
|  | Number of Vehicles $>80 \mathrm{KPH}$ <br> Percent of Vehicles $>80 \mathrm{KPH}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | 83.2\% |  |  |  |  |  |  |  |  |  |  |

## Public Works and Engineering

## Campbell Drive - 1.5 km south of Usborne Street Speed Study

Site Code: Station ID:

Latitude: 0' 0.0000 South


## Public Works and Engineering

## Campbell Drive - 1.5 km south of Usborne Street Speed Study

Site Code: Station ID:

Latitude: 0' 0.0000 South

| SB, NB |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start | 1 | 25 | 33 | 41 | 49 | 57 | 65 | 73 | 81 | $\begin{aligned} & 89 \\ & 96 \end{aligned}$ | $\begin{array}{r} 97 \\ 104 \\ \hline \end{array}$ | $\begin{aligned} & 105 \\ & 112 \\ & \hline \end{aligned}$ | $\begin{aligned} & 113 \\ & 120 \end{aligned}$ | 121 | Total |
| Time | 24 | 32 | 40 | 48 | 56 | 64 | 72 | 80 | 88 |  |  |  |  | 9999 |  |
| 08-13- |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 4 | 3 | 0 | 2 | 0 | 0 | 11 |
| 01:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 4 |
| 02:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 3 |
| 03:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 3 |
| 04:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 05:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 1 | 1 | 0 | 6 |
| 06:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 7 | 3 | 6 | 3 | 1 | 0 | 25 |
| 07:00 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 8 | 8 | 11 | 7 | 2 | 0 | 43 |
| 08:00 | 0 | 0 | 0 | 0 | 2 | 0 | 3 | 8 | 8 | 10 | 14 | 9 | 0 | 0 | 54 |
| 09:00 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 8 | 20 | 17 | 17 | 8 | 0 | 0 | 73 |
| 10:00 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 13 | 18 | 9 | 15 | 9 | 3 | 0 | 71 |
| 11:00 | 0 | 0 | 1 | 0 | 3 | 3 | 2 | 12 | 31 | 13 | 12 | 6 | 5 | 1 | 89 |
| 12 PM | 0 | 1 | 0 | 0 | 0 | 1 | 4 | 14 | 14 | 17 | 14 | 10 | 2 | 0 | 77 |
| 13:00 | 0 | 1 | 1 | 0 | 0 | 3 | 0 | 11 | 20 | 16 | 15 | 5 | 4 | 0 | 76 |
| 14:00 | 0 | 1 | 0 | 0 | 1 | 3 | 1 | 14 | 22 | 17 | 12 | 6 | 4 | 0 | 81 |
| 15:00 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 8 | 19 | 11 | 16 | 15 | 1 | 0 | 75 |
| 16:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 11 | 16 | 25 | 6 | 4 | 0 | 69 |
| 17:00 | 0 | 1 | 0 | 0 | 0 | 0 | 3 | 6 | 25 | 18 | 14 | 3 | 1 | 0 | 71 |
| 18:00 | 1 | 0 | 2 | 0 | 0 | 3 | 1 | 5 | 16 | 9 | 11 | 9 | 5 | 1 | 63 |
| 19:00 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 7 | 17 | 7 | 9 | 4 | 1 | 1 | 49 |
| 20:00 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 11 | 9 | 8 | 6 | 0 | 1 | 1 | 39 |
| 21:00 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 7 | 7 | 8 | 3 | 2 | 2 | 0 | 32 |
| 22:00 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 9 | 6 | 4 | 0 | 2 | 0 | 24 |
| 23:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 1 | 2 | 0 | 0 | 0 | 8 |
| Total | 1 | 5 | 4 | 0 | 8 | 20 | 31 | 148 | 271 | 200 | 208 | 106 | 41 | 4 | 1047 |
| Daily | 15th Percentile 50th Percentile 85th Percentile 95th Percentile |  |  |  | $76 \mathrm{KPH}$$89 \text { KPH }$ |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | 103 KPH |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | 111 KPH |  |  |  |  |  |  |  |  |  |  |
|  | Mean Speed(Average) : |  |  |  |  |  | 90 KPH |  |  |  |  |  |  |  |  |  |  |
|  | 15 KPH Pace Speed: |  |  |  | 81-95 KPH446 |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | 42.6\% |  |  |  |  |  |  |  |  |  |  |
|  | Number of Vehicles > 80 KPH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Percent of Vehicles > 80 KPH : |  |  |  | 79.3\% |  |  |  |  |  |  |  |  |  |  |

## Public Works and Engineering

## Campbell Drive - 1.5 km south of Usborne Street Speed Study

Site Code: Station ID:

Latitude: 0' 0.0000 South

| SB, NB |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Start | 1 | 25 | 33 | 41 | 49 | 57 | 65 | 73 | $\begin{aligned} & 81 \\ & 88 \end{aligned}$ | $\begin{aligned} & 89 \\ & 96 \end{aligned}$ | $\begin{array}{r} 97 \\ 104 \end{array}$ | $\begin{aligned} & 105 \\ & 112 \end{aligned}$ | $\begin{aligned} & 113 \\ & 120 \\ & \hline \end{aligned}$ | $\begin{array}{r} 121 \\ 9999 \end{array}$ | Total |
| Time | 24 | 32 | 40 | 48 | 56 | 64 | 72 | 80 |  |  |  |  |  |  |  |
| 08-14- |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 0 | 11 |
| 01:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 2 | 0 | 0 | 5 |
| 02:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 4 |
| 03:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 3 |
| 04:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 05:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 3 |
| 06:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 6 | 1 | 0 | 1 | 0 | 13 |
| 07:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 6 | 5 | 8 | 2 | 0 | 0 | 23 |
| 08:00 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 7 | 9 | 8 | 8 | 2 | 1 | 0 | 38 |
| 09:00 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 7 | 14 | 13 | 13 | 3 | 2 | 1 | 56 |
| 10:00 | 0 | 0 | 1 | 0 | 0 | 1 | 4 | 10 | 19 | 23 | 14 | 12 | 2 | 0 | 86 |
| 11:00 | 1 | 0 | 0 | 0 | 1 | 1 | 7 | 14 | 18 | 30 | 14 | 5 | 2 | 1 | 94 |
| 12 PM | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 19 | 39 | 16 | 24 | 8 | 1 | 0 | 110 |
| 13:00 | 0 | 7 | 1 | 0 | 1 | 2 | 8 | 10 | 20 | 18 | 15 | 13 | 3 | 1 | 99 |
| 14:00 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 13 | 21 | 41 | 21 | 8 | 6 | 0 | 113 |
| 15:00 | 0 | 1 | 0 | 1 | 0 | 1 | 5 | 7 | 32 | 17 | 20 | 5 | 3 | 0 | 92 |
| 16:00 | 0 | 1 | 0 | 0 | 0 | 2 | 2 | 9 | 16 | 27 | 24 | 5 | 4 | 0 | 90 |
| 17:00 | 0 | 0 | 1 | 0 | 0 | 0 | 5 | 5 | 12 | 14 | 13 | 3 | 3 | 0 | 56 |
| 18:00 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 15 | 25 | 14 | 13 | 3 | 0 | 74 |
| 19:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 14 | 16 | 18 | 14 | 4 | 2 | 1 | 70 |
| 20:00 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 9 | 13 | 9 | 5 | 5 | 0 | 0 | 46 |
| 21:00 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 4 | 8 | 4 | 5 | 3 | 0 | 0 | 30 |
| 22:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 4 | 2 | 1 | 0 | 0 | 10 |
| 23:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 3 | 2 | 1 | 0 | 0 | 9 |
| Total | 2 | 11 | 4 | 2 | 2 | 13 | 52 | 138 | 270 | 284 | 223 | 97 | 34 | 4 | 1136 |
| Daily | 15th Percentile 50th Percentile 85th Percentile 95th Percentile |  |  |  | 76 KPH 90 KPH |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | 102 KPH |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | 110 KPH |  |  |  |  |  |  |  |  |  |  |
|  | Mean Speed(Average) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 15 KPH Pace Speed Number in Pace |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | $\begin{array}{r} 82-96 \text { KPH } \\ 520 \end{array}$ |  |  |  |  |  |  |  |  |  |  |
|  | Percent in Pace |  |  |  | 45.8\% |  |  |  |  |  |  |  |  |  |  |
|  | Number of Vehicles $>80 \mathrm{KPH}$ : <br> Percent of Vehicles > 80 KPH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | 80.3\% |  |  |  |  |  |  |  |  |  |  |

## Public Works and Engineering

## Campbell Drive - 1.5 km south of Usborne Street Speed Study

Site Code: Station ID:

Latitude: 0' 0.0000 South


## Public Works and Engineering

## Campbell Drive - 1.5 km south of Usborne Street Speed Study

Site Code: Station ID:

Latitude: 0' 0.0000 South


## Public Works and Engineering

## Campbell Drive - 1.5 km south of Usborne Street Speed Study

Site Code: Station ID:


### 1.9 Road Rationalization

### 1.9.1 THE CONCEPT OF ROAD RATIONALIZATION

When first established the "Kings Highway System" provided a major inter-centre connector. A County or regional road system provide this same service on a reduced scale, connecting smaller centres of population and providing a "farm to market" road link. The local road acted as the final link in the system providing access to the abutting properties. These roles have changed very little over time. However, in many areas of the province significant changes in settlement patterns, population and employment have left some areas with designation of roads that is no longer appropriate. The Province of Ontario have taken the lead in the re-designation of their road system and has began to shift responsibility for some roads to the local, county and regional levels.

Road service providers are requested to demonstrate accountability for road maintenance services. The efficient and effective delivery of road services is a priority of municipal customers ( the road user and taxpayer ). One step in demonstrating accountability is in rationalizing road jurisdiction between a County (Region) and local municipalities. This rationalization will ensure that local roads serve primarily a local function and County (Regional) roads serve a through traffic function. Another benefit to the transferring of roads is a County (Regional) road that is a low priority to the upper tier, once transferred, may become a high priority for the local municipality and see significant improvements over time. Likewise a high volume local road carrying primarily through traffic may receive higher levels of service than the local municipality was able to provide.

The road rationalizing method as shown in this report permits a review of the road system within an county (region). The outcome of the review is a determination of the appropriate jurisdiction of a road or road section.

### 1.9.2 BY-LAWS

Each County or Regional municipality has been granted the power under the Public Transportation and Highway Improvement Act or their respective Regional Act to establish, maintain, add or remove designated roads from or to their county or regional road system.

The Public Transportation and Highway Improvement Act (PTHIA) provides for the establishment of a county road system. The county road systems were established in the early years of this century by by-laws passed by each council. The roads which comprise a county road system established under the PTHIA are county roads whether they be in a town, a village or a township. When the task of determining what alterations have been made to the physical system or when it is desirable to review municipal service delivery, a new system can be designated by a new establishing by-law. In effect, the slate is wiped clean and the road system starts afresh.

### 1.9.3 PRINCIPLES OF ROAD RATIONALIZATION

- Upper Tier roads, which are primarily transportation corridors, should provide continuous roadway service throughout the county or region.
- Upper Tier roads should be capable of being upgraded to a reasonable standard consistent with the service to be provided.
- Upper Tier roads should be along the shortest practical route, along existing roads and streets.


### 1.9.4 GOAL OF A ROAD RATIONALIZATION STUDY

- To develop a County (Regional) Road System that reflects the realities of today and beyond.


### 1.9.5 TERMS OF REFERENCE

- Conduct a road rationalization study, evaluating criteria prepared by the Ministry of Transportation in their document "Upper Tier Road Classification Criteria". Modifying the criteria based on information as shown in this document.
- This review will focus on the efficient and effective delivery of all road services within the county or region.
- Transfer roads to the local municipalities which serve primarily a local function.
- Transfer roads to the County (Region) which primarily serve a through traffic (regional) function.
- Consider road condition and compensation throughout the discussion of road transfers.
- Involve the local municipalities in the decision making process by encouraging feedback and comments.


### 1.9.6 METHODOLOGY

The review of every road section within the county and local municipalities will be time consuming and probably unnecessary. By each local municipality identifying roads that they believe serve a through traffic function will save a time consuming road by road analysis.

- Review the criteria as shown in figure 1.9.7 and modify to meet specific municipal requirements.
- Apply the criteria to all existing county ( regional ) roads and roads identified by the local municipalities as candidates forupper tier road classification.
- Weight the criteria as shown in this document.
- Determine "cut-off" weight for inclusion of individual road sections in the County (Regional) system.
- Develop a County (Regional) road system.
- Determine the needs to be addressed (i.e. surface condition) prior to the transfer of roads to the local municipality or the acceptance of roads by the county (region)
- Determine impact on local municipalities as well as county or region.
- Present findings to council.


### 1.9.7 CRITERIA AND THE WEIGHTS APPLIED

Criterion 1 Urban Center Connector
Connect Urban Centres to each other or to a Kings Highway unless such a service is now provided by a Kings Highway.

Weighting Applied $=3$

## Criterion 2 Kings Highway/Upper Tier Connector

Connect major commercial and industrial areas, universities, hospitals, international border crossings and provincial boundaries, etc. to a Kings Highway or Upper Tier road.

Weighting Applied $=2$
Criterion 3 Heavy Industry Service
Provide service within 4 km . of consistent major attractors or generators of heavy vehicles.

Weighting Applied $=2$

## Criterion 4 Barrier Service

Provide service parallel to and across major barriers to free traffic movement such as freeways, watercourse or congested areas.

Weighting Applied = 1
Criterion 5 Resort Criterion
Provide service within 4 km . of a major resort and/or recreational areas

Weighting Applied $=1$
Criterion 6 Urban Cell Service
Provide service in urban areas within the cells formed by the Kings Highways and the streets selected by the above criteria, provided that the traffic demand existing on the street is considered predominantly for through traffic.

Weighting Applied $=0$
Criterion 7 Urban Arterial Extension
Provide service on those roads which are extensions of urban arterial streets, from the urban limits to the first intersection where the AADT is below 700 vehicles per day, then connect to an upper tier road or a Kings Highway by the shortest route.

Weighting Applied $=3$

## Criterion 8 Rural Cell Service

Provide service in rural areas within the cells formed by the Kings Highways and the roads selected by the above criteria.

Weighting Applied $=0$
Criterion 9 Traffic Speed
Provide service on roads where the speed limit is 80km/hr.

Weighting Applied $=1$
Criterion 10 Road Surface
Provide service on roads with an asphalt surface.
Weighting Applied $=0.5$
Criterion 11 Traffic Volume
Provide service on roads with current traffic volumes greater than 1000 vehicles per day.

Weighting Applied $=0.5$
Criterion 12 Road Right of Way
Provide service on roads with at least a 66 foot wide right of way.

Weighting Applied =

### 1.9.8 APPLICATION GUIDELINES

Criterion 1 (Urban Centre Connector) and Criterion 7 (Urban Arterial Extension) are considered the most important criteria, as upper tier roads should serve as inter-municipal corridors to connect the small urban centres within the county or region. In order to apply criterion 1 a determination of what constitutes an urban centre is required.

## Criterion 1 Urban Centre Connector

This criterion is intended to identify roads which provide service to and from centres having commercial and possibly industrial development.

Urban centres are areas of concentrated development, not "ribbon" development.

The criterion is not intended to be applied to residential subdivisions which are developing in rural areas. When the residential development grows to a sufficient size, upper tier road service may be considered through the application of all of the criteria.

## Criterion 2 Kings Highway/Upper Tier Road Connector

The intent of this criterion is to extend the Kings Highway or upper tier road to connect to the facilities mentioned and not to provide for lateral connections between highways/upper tier roads.

Major institutional/commercial/industrial complexes are areas generating more than 1000 vehicle trips per day.

Criterion 3 Heavy Industry Service
It is not intended that it be an upper tier responsibility to provide service to the entrance of every attractor or generator of heavy vehicles in an area. Rather, it is intended that upper tier service be provided close to the
industry and that the distribution within the area of the industry be a lower tier responsibility.
"Close to" means within a distance of approximately 4.0km.
"Consistent major attractor or generator", in the case of gravel pits and quarries, is defined as approximately 9 months or more of operation per year.

Landfill sites under the jurisdiction of, or serving the upper tier municipality, may also be considered as attractors of heavy vehicles and may be serviced by upper tier roads.

## Criterion 4 Barrier Service

The intent of this criterion is to alleviate traffic on local roads by providing service parallel to or across barriers to traffic movement where upper tier service is justified. The barrier must be an obstacle to traffic wishing to cross it and it must be feasible to cross (i.e. freeways by interchanges and rivers by bridges)

Service is provided "parallel to" only if there is no other upper tier or provincial road providing that service within a reasonable distance and only along roadways which are used to reach barrier crossings.

## Criterion 5 Resort Criterion

The intent of this criterion is to provide upper tier service close to resort/recreational areas or to a lower tier road system that distributes the traffic.
"Close to" means within a distance of approximately 4.0 km from the edge of the resort development.

A major resort/recreational area is an area generating a minimum of 700 vehicle trips per day during normal season of operation.

## Criterion 6 Urban Cell Service

The intent of this criterion is to identify roads in the cell under consideration at the spacing noted. The roads so identified must function predominately for through movement of traffic.

Roads which function as minor collectors for trips with origin and destination within the cell should be rejected.

The cell population density considered in identifying the appropriate spacing should be either the daytime or night time population whichever is greater.

| Population DensityAdditional service <br> required when spacing <br> of roads is greater <br> than |
| :--- |
| less than 40 persons/hectare 2000 m |
| between 40 and 125 persons/ha $\quad 1200 \mathrm{~m}$ |
| Criterion 6 and 8 are not included in the original |
| application of criteria but could be used as a rationale for |
| including additional roads or road sections to complete |
| the road network. The reasoning behind excluding this |
| criterion in the original application is due to the good |
| condition of most local roads and the fact the majority of |
| population has access to a motor vehicle or alternate |
| transportation services (i.e. transit). |

## Criterion 7 Urban Arterial Extension

The intent of this criterion is to provide for the extension of urban arterial streets into the rural areas to connect with an upper tier road or a Kings Highway. Traffic counts should be taken on both sides of the intersection with the upper tier and the extension continued through the
intersection, only if both AADT's equal or exceed 700 vehicles per day.

## Criterion 8 Rural Cell Service

The intent of this criterion is to provide upper tier service within the cell formed by the application of criteria 1-7 inclusive at spacing related to population density within the cells.

Upper Tier roads or provincial highways in the subject upper tier or in adjacent upper tiers act as rural cell boundaries.

| Population Density | Additional service <br> required when spacing <br> of roads is greater <br> than |
| :--- | :--- |
| less than 1 person $/ \mathrm{km}^{2}$ | no additional service |
| 1 person $/ \mathrm{km}^{2}$ | 25 km |
| between 1 and 4 persons $/ \mathrm{km}^{2}$ | 20 km |
| between 4 and 8 persons $/ \mathrm{km}^{2}$ | 15 km |
| between 8 and 16 persons $/ \mathrm{km}^{2}$ | 10 km |
| greater than 16 persons $/ \mathrm{km}^{2}$ | 6 km |

Criterion 9 Traffic Speeds
This criterion is intended to identify those roads which have a speed limit of $80 \mathrm{~km} / \mathrm{h}$. This is deemed to be a desirable speed limit allowing roads which predominately serve as inter-municipal links in a road network to do so efficiently.

## Criterion 10 Road Surfaces

This criterion is intended to identify those roads with an asphalt surface. These roads were deemed to be more appropriate to serve as upper tier roads, as this surface material would be more durable to withstand the greater traffic volumes, heavier vehicles and higher speeds as anticipated on upper tier roads.

## Criterion 11 Traffic Volumes

This criterion was intended to identify roads with current traffic volumes greater than 1000 vehicles per day.

## Criterion 12 Road Right of Way

The intent of this criterion is to identify roads with a right of way width of 66 feet. It is appropriate to be considered for an upper tier road designation that the road have at least a standard right of way.

Apply each of the criteria in section 1.9.7 to the existing upper tier road system and to local roads identified by each municipality as a provider of through traffic service. Criterion 6 and 8 are not included in the original application of criteria but could be used as a rationale for including additional roads or road sections to complete the road network.

### 1.9.9 CUT-OFF WEIGHT

After the criteria has been applied to each road being analyzed it is possible to determine how much weight each road has accumulated. By setting a minimum weighting of six points, a cut-off threshold is established for including a road in the upper tier system.

This would mean that to qualify for upper tier designation a road must meet either the criteria for Urban Centre Connector or the criteria for Urban Arterial Extension worth 3 points, plus all four criteria for Traffic Speed, Road Surface, Traffic Volume and Road Right-of-Way worth a combined total of 3 points, or another combination of criteria to have a total weight of 6 . This becomes the yardstick to be used for recommending the redesignation of roads.

| Criteria | Weight | YES/NO | Score | Rational |
| :---: | :---: | :---: | :---: | :---: |
| Criterion 1 - Urban Centre Connector | 3 | NO | 0 | This would be an Arterial Connector between County Roads 45 \& 3 |
| Criterion 2 - King's Highway/Upper Teir Connector | 2 | YES | 2 | This would be an Arterial Connector between County Roads 45 \& 3 |
| Criterion 3 - Heavy Industry Service | 2 | YES | 2 | Pit Traffic and future industrial park expansion |
| Criterion 4 - Barrier Service | 1 | NO | 0 | Very liitle improvement in traffic flow |
| Criterion 5 - Resort Criterion | 1 | NO | 1 | No resort involved |
| Criterion 6 - Urban Cell Service | 0 | NO | 0 | This would be a Connector between County Roads |
| Criterion 7 - Urban Arterial Extension | 3 | YES | 3 | Arterial Connection |
| Criterion 8 - Rural Cell Service | 0 | YES | 0 | Currently being used for residential access |
| Criterion 9 - Traffic Speed | 1 | YES | 1 | Speed limit varies throughout the corridor |
| Criterion 10 - Road Surface | 0.5 | YES | 0.5 | a varried of hard surface treatments are currently being used. |
| Criterion 11 - Traffic Volume | 0.5 | YES | 0.5 | >1000 ADDT |
| Criterion 12 -Road Right-of-Way | 1 | YES |  | Varries throughout corridor. |
| Totals | 15 |  | 11 |  |

* To qualify for upper tier designation a road must meet either the criteria for urban centre connector or the criteria for urban arterial extension worth 3 points, plus all four criteria for traffic speed, road surface, traffic volume and road right- of-way worth a combined total of 3 points, or another combination of criteria to have a total weight of 6 . This becomes the yardstick to be used for recommending the redesignation of roads.

Criterion 1 - Urban Centre Connector
Criterion 7 - Urban Arterial Extension
Criterion 9 - Traffic Speed
Criterion 10 - Road Surface
Criterion 11 - Traffic Volume
Criterion 12 -Road Right-of-Way

## Totals



0 This would be an Arterial Connector between County Roads 45 \& 3 3 Arterial Connection
1 Speed limit varies throughout the corridor
0.5 a varried of hard surface treatments are currently being used.
$0.5>1000$ ADDT
1 Varries throughout corridor.

## BY-LAW NUMBER

## A BY-LAW TO ESTABLISH POLICY PW-18 DECORATIVE CROSSWALKS ON COUNTY ROADS FOR THE MUNICIPAL ROAD SYSTEM WITHIN THE JURISDICTION OF THE CORPORATION OF THE COUNTY OF RENFREW

WHEREAS Section 11(3) the Municipal Act, S.O. 2001, as amended, authorizes Council to pass by-laws regarding highways under the jurisdiction of the Corporation;

AND WHEREAS the Corporation desires to implement a Policy regarding the Renaming of County Roads within the jurisdiction of the Corporation.

NOW THEREFORE the Council of the Corporation of the County of Renfrew hereby enacts as follows:

1. THAT Public Works and Engineering Department Policy PW-18 Decorative Crosswalks on County Roads, as outlined in Schedule ' $I$ ' attached to and made part of this By-law, shall form part of the Public Works and Engineering Department Policies and Procedures of the Corporation of the County of Renfrew.
2. THAT this By-law shall not be interpreted to contradict or violate any statute or regulation of the Province of Ontario.
3. THAT this By-law shall come into force and take effect immediately upon the passing thereof.

READ a first time this 26th day of October, 2022.
READ a second time this 26th day of October, 2022.
READ a third time and finally passed this 26th day of October, 2022.

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## POLICY STATEMENT

The County of Renfrew, as a road authority, has a need to ensure that pedestrian crosswalks on County Roads are in compliance with the requirements of the Ontario Traffic Manual (OTM) and Highway Traffic Act (HTA) and is consistent with the Department's primary objective of providing and maintaining a safe road system. This Decorative Crosswalk Policy is to support and facilitate the installation of decorative crosswalks in the County of Renfrew, with the endorsement and participation of the local municipality.

## BACKGROUND

The County of Renfrew, as the road authority having jurisdiction over County Roads, may make and enforce by-laws and policies pertaining to those items that may be placed within the road allowance.

1. The Municipal Act, S.O. 2001 (s.11), as amended, permits a municipality to pass by-laws pertaining to the public assets of the Municipality for the purpose of exercising its authority under the Act, and to pass by-laws pertaining to highways.
2. The County of Renfrew, as well as local municipalities, has an extensive network of roads that are, travelled at a high rate of speed, often with a high volume of traffic, and must be able to do so safely.

## DEFINITIONS

For the purposes of this policy the following definitions shall apply:
"Highway" has the same meaning as provided in the Municipal Act, S.O. 2001, (s.11), as amended, and pertains only to those highways that fall under the control and jurisdiction of the County of Renfrew.

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#### Abstract

"Road Allowance" means the land occupied by the highway. "Crosswalks" are an integral component of the transportation network that distinctly indicates safe roadway crossing locations for pedestrians by means of lines or other markings on the surface of the roadway. Vehicle traffic is controlled at crosswalks with stop signs, pedestrian crossovers (PXO's), and partial or full traffic signals. Crosswalks exist at intersections or between intersections (midblock) on all road classification types throughout the County of Renfrew.


## GUIDELINES

The size and colour of crosswalk pavement markings is governed by the Ontario Traffic Manual (OTM). The transverse lines, which are lines that run perpendicular to the roadway and establish the boundaries of the crosswalk, must be white and extend the entire length of the crosswalk. Ladder (also referred to as zebra) markings are suggested for crosswalks where higher visibility is desired. The longitudinal lines (rungs of the ladder) are also normally white; however, the OTM does not specify that they must be white.

The Highway Traffic Act (HTA), specifically Ontario Regulation 402/15: Pedestrian Crossover Signs, requires that PXO's include ladder pavement markings and that the longitudinal lines (rungs) are to the width and spacing as specified. Like OTM, the colour of the rungs are not mandated to be white.

The OTM does state that textured or coloured crosswalks should be "applied to increase the conspicuity of a pedestrian crossings and increase driver's awareness of potential conflicts". It goes on to state that the "materials should be designed to maintain visibility at night".

Decorative crosswalks are typically understood to be crosswalks that include elements (colour, design, imagery, texture and/or material) that are considered aesthetic enhancements above and beyond standard crosswalk treatments.

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Crosswalks must always include two white transverse lines, and except for PXO's, the pavement marking treatment in between the transverse lines is not restricted. Therefore, decorative elements (artwork) can be legally applied to the road surface if they are 'framed' by the white transverse lines and the edge of the roadway (normally being curbs). However, it is implied that the design of the treatment would not negatively impact the safety of road users, visually or otherwise.

### 1.0 REQUESTS

The County of Renfrew may permit the installation of a decorative crosswalk on County Roads, subject to the following terms and conditions:

1. Requests for the installation of the decorative crosswalk shall be submitted in writing to the County by the local proponent in the municipality in which the crosswalk is requested.
2. Upon receipt of a request from the proponent the County will request endorsement from the local municipality for the installation of a decorative crosswalk that has been requested. The County of Renfrew shall meet with staff from the municipality and review the location to determine its suitability for the requested decorative crosswalk.
3. The proponent requesting the decorative crosswalk shall be responsible for one hundred percent ( $100 \%$ ) of all costs associated with the initial installation of the decorative crosswalk. The proponent shall be responsible for one hundred percent (100\%) of maintenance costs as well as one hundred percent ( $100 \%$ ) of the yearly repainting costs. If the proponent does not agree to the terms of the agreement to re-establish, the cost to remove the decorative crosswalk will be assessed and billed to the proponent.

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### 2.0 PERMITTED LOCATIONS

Selecting a location for the installation of decorative crosswalks is important to ensure that they are appropriate, sustainable and safe. The primary consideration in approving a decorative crosswalk location is the safety of pedestrians, cyclists and motorists. Where safety may be negatively impacted, a decorative crosswalk will not be permitted to be installed. Decorative crosswalks should be avoided, without special consideration and permission, across roadways that have high volumes of traffic and/or a high percentage of truck traffic. On arterial roadways, maintenance is cost prohibitive given the amount of tire wear and marks from large trucks.

Decorative crosswalks can be installed on collector and local classified roadways. This includes collector and local roadways that intersect with, or immediately parallel to, major/minor arterial roadways permitting that the crosswalk is located on the secondary leg(s) of the intersection.

It is important that the roadways are in acceptable condition. The installation location surface must be free of potholes, fatigue cracking, loose debris or other similar degraded conditions which would inhibit the installation of surface treatments or perceivably shorten the operational life. Asphalt roadways are preferred, however concrete roads can be considered. Roadways that are constructed using unit pavers, stamped textures or comprised of mixed materials (such as adjoining asphalt and concrete surfaces) should be avoided. Roadways that are scheduled for reconstruction or re-surfacing within five (5) years or less as per the County of Renfrew Asset Management Plan, from the time of decorative crosswalk installation must be avoided so that the treatments are not inadvertently removed earlier than intended or before their operational end-oflife.

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### 3.0 INSTALLATION AND MAINTENANCE

Proper installation and maintenance of decorative crosswalk treatments protects their overall integrity and longevity. Therefore, they must be installed by professional forces that are sufficiently trained and skilled, using appropriate materials and methods, routinely monitored, repaired and maintained.

Artwork must be contained within the two white standard transverse lines of the crosswalk and the edge of the roadway. Treatment must be configured so that a pedestrian's first step is onto asphalt (the bare road surface), achieved by starting the artwork approximately 1.0 metre away from the curb/edge of road. It must not continue or extend onto median islands, curb gutters, curbs, sidewalks or other roadway features.

Artwork must not be applied to utility manhole covers, chamber lids, frames or other similar infrastructure.

Artwork should provide visual contrast and be reflective as per the requirements of the OTM.

Artwork that would be considered ladder (or zebra) markings, must dimensionally conform to the requirements of the HTA and OTM.

Artwork shall respect community standards concerning appropriate subjects and imagery for display in public places. Further, commercial interests such as advertising and copyright protected content is not permitted without special consideration and explicit permission.

Artwork must not be comprised of any elements that road users, particularly pedestrians, would interact with such as hopscotch as an example.

Artwork must not directly or inadvertently mislead the general use or guidance of the crosswalk, especially users whom are visually impaired.

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### 4.0 MATERIALS AND INSTALLATION

Durable skid resistant pavement markings, such as thermoplastic or cold plastic, are preferred to be used for artwork or as specified by the Public Works and Engineering Department. The in-service operational life of durable pavement markings is approximately five (5) years, and is dependent upon roadway surface conditions and traffic volumes.

Artwork must be reflective as per the requirements of the OTM.
Decorative crosswalks must be installed by the County of Renfrew, Public Works and Engineering Department or by contractors as directed by the same.

Artwork designs shall be reasonable, easily reproduced and installed using the noted marking materials and their associated installation methods.

Installation shall be scheduled to occur seasonally in the late spring to early fall or as weather and conditions permit to ensure optimal adherence of materials to roadway surfaces.

### 5.0 MAINTENANCE AND OPERATIONS

Decorative crosswalks shall be cleaned regularly by the County of Renfrew.
It is recognized that decorative crosswalks do not have an attributed level of service as defined by Ontario Regulation 239/02: Minimum Maintenance Standards for Municipal Highways. However, decorative crosswalks shall generally be inspected by the County of Renfrew, Public Works and Engineering Department, once per calendar year, typically in the late spring;

Maintenance of decorative crosswalks shall be safety focused, but also to maintain the integrity and longevity of the artwork. Maintenance shall be generally conducted on an as-needed basis.

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Decorative crosswalks do not have an infinite life and would need to be removed (and replaced if appropriate) when deemed necessary or as required by any terms and/or agreements of their installation.

Requestors of decorative crosswalks shall be responsible for installation costs and maintenance costs.

### 6.0 ATTRIBUTED COSTS

The cost of installing and maintaining decorative crosswalks will have an impact on capital and existing operational budgets. Because of this, the person or agency requesting decorative crosswalks shall accept all costs.

The cost of installing a decorative crosswalk is dependent upon the intricacy, width of the roadway, coverage of the artwork and location. It is estimated that installation costs would be between $\$ 5,000$ and $\$ 15,000$ depending on the length of the crossing.

The ongoing maintenance of the decorative crosswalks shall be borne by the requestor based upon the cost difference between standard crosswalks and decorative crosswalks. Costs would also be dependent upon the same primary cost drivers noted as part of installation (above).

Maintenance costs shall be determined at the time of approval and based upon the design of the decorative crosswalks and perceived attributed maintenance cost pressures.

Installation and maintenance costs which are the requestors will be formalized by establishment of a written agreement.

Installation costs for decorative crosswalks that are not requested by external people or agencies, but rather internal to the County of Renfrew, shall be funded from an appropriate capital budget. Maintenance and operation costs shall be

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funded from an appropriate operating budget and annual budgets shall be reasonably adjusted as decorative crosswalks are added or removed.

### 7.0 APPROVALS

The installation of a new decorative crosswalk on County Roads shall be approved by the appropriate County of Renfrew authority, based on total overall cost of purchased services and materials, as per requirements of County of Renfrew Corporate Policy GA-01 Procurement of Goods and Services.

## OPERATIONS DIVISION REPORT

Prepared by: Richard Bolduc, A.Sc.T., Manager of Operations
Prepared for: Operations Committee
October 11, 2022

## INFORMATION

## 1. Summer Operations [Strategic Plan Goal No. 3]

Summer operations are in the process of winding down as preparations are made for the coming winter season. As weather conditions permit, staff will continue with a variety of operations including roadside brushing, shouldering, ditch and culvert cleanouts, small culvert inspections program, sign replacements and routine surface maintenance and repairs.

## 2. Winter Operations [Strategic Plan Goal No.3]

a) Operational Status and Winter Readiness

Staff are preparing for the coming winter season and the Department is required to be 50\% operational by November 1, 2022 and 100\% operational by November 15, 2022. Night Patrol shifts are scheduled to commence on November 15, 2022 and will continue until April 1, 2023.
b) Winter Sand

The supply, delivery and stockpiling of winter sand at the various patrol locations is ongoing and it is anticipated that this work will be completed by the end of October.
c) Winter Maintenance Agreements The following are the current statuses of all winter maintenance agreements:

- Township of Carlow/Mayo for services on a portion of County Road 517 (Dafoe Road) - Term 2022-2023 - Completed.
- Town of Arnprior - Term 2022-2023 - Completed.
- Town of Renfrew - Term 2019-2029 - Completed.
- Town of Deep River - Term 2020-2030 - Completed.

The following multi-year facility rental agreements for County of Renfrew winter operations equipment have been completed and are valid until 2026/2027 winter season:

- Rental agreement with the Township of Bonnechere Valley for the use of one bay of the garage at Foymount during the winter season.
- Rental agreement with the Algonquins of Pikwakanagan for the use of one bay of the garage at Golden Lake during the winter season.


## 3. Fleet Management - Annual Vehicle Safety Inspections [Strategic Plan Goal No. 3]

Work is continuing with the annual vehicle safety inspections within the fleet. The goal is to ensure that all heavy-duty trucks have been inspected and repaired as necessary in order to be available at the start of the coming winter season. The current fleet readiness is at $95 \%$.

In addition to the inspection and repair of those vehicles within the Department of Public Works and Engineering, staff also performs the routine maintenance, inspection, and report of the paramedic vehicles.

## 4. Quotations and Tenders [Strategic Plan Goal No. 3]

A summary of tenders and quotations received in the month of September 2022 awarded under the authority of the Director of Public Works and Engineering or the Chief Administrative Officer is as follows:
a) PWO-2022-10 - Concrete Curb Replacement

1. Neptune Security Services, Mississauga, ON \$62,381.61
2. Bonnechere Excavating Inc., Renfrew, ON
\$88,592.00
b) PWO-2022-23 - Crack Sealing
3. Roadlast Asphalt \& Sealing Maintenance Inc., Kemptville, ON \$31,050
4. Greenwood Paving (Pembroke) Ltd., Pembroke, ON \$33,645
5. Neptune Security Services Inc., Mississauga, ON \$45,000
6. Upper Canada Road Services Inc., Markham, ON \$45,000

All amounts exclude applicable taxes.
In all cases the procurements have followed the processes set out in Corporate Policy GA-01 Procurement of Goods and Services.


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