



CORPORATION OF THE TOWNSHIP OF ESQUIMALT

Agenda - Final

Committee of the Whole

Municipal Hall
1229 Esquimalt Road
Esquimalt, B.C. V9A 3P1

Monday, October 18, 2021

6:00 PM

Esquimalt Council Chambers

During Phase 3 of the BC Restart Plan no more than 40 people will be permitted in the Council Chambers, which includes Mayor and Council, staff, presenters, and approximately 20 members of the public. It is mandatory that anyone attending a meeting in-person wear a facemask while in Municipal Hall. Due to the limited seating available, if you wish to attend a meeting, we recommend that you call the Corporate Officer at 250-414-7135 or email corporate.services@esquimalt.ca to reserve a seat. Anyone arriving at Municipal Hall without a reserved seat will not be permitted into the building once the maximum number of in-person seats have been taken.

In addition to limited in-person attendance, there are several options available to submit input to Council, as follows:

- 1. To provide written comments to Council, please submit your correspondence via email to corporate.services@esquimalt.ca by 12:00 p.m. (noon) on the day of the meeting.*
- 2. To provide comments to Council electronically via telephone during a meeting, please contact the Corporate Officer for scheduling at 250-414-7135 by 4:30 p.m. on the day of the meeting.*

Meetings are streamed live on <https://esquimalt.ca.legistar.com/Calendar.aspx>

1. CALL TO ORDER

2. LATE ITEMS

3. APPROVAL OF THE AGENDA

4. MINUTES

- 1) [21-500](#) Minutes of the Regular Committee of the Whole meeting held August 23, 2021

Attachments: [Minutes of the Regular Committee of the Whole meeting, August 23, 2021](#)

5. PUBLIC INPUT ON ANY ITEMS LISTED ON THE AGENDA

Address Council on any item included on this Agenda, including Staff Reports and Communications (excluding items which are or have been the subject of a Public Hearing). Limit 2 minutes per speaker.

6. STAFF REPORTS

Finance

- 1) [21-490](#) Local Grant Policy, Staff Report FIN-21-017

Recommendation:

That the Committee of the Whole receive Staff Report No. FIN-21-017 for information, provide any additional direction to staff as the COTW considers advisable, and direct staff to prepare a report for Council's consideration.

Attachments: [FIN-20 Local Grants Revised](#)

Development Services

- 2) [21-457](#) Deer Fencing, Staff Report No. DEV-21-070

Recommendation:

That the Committee of the Whole receive Staff Report No. DEV-21-070 for information, provide any additional direction to staff as the Committee considers advisable, and direct staff to prepare a report and Zoning Bylaw amendment bylaw for Council's consideration.

Attachments: [Appendix A - Council Motion](#)
[Appendix B - Local Pictures of Fencing, Netting, and other Defensive Approaches large](#)
[Appendix C - Zoning Bylaw Excerpt - Section 22 Fencing and Retaining Walls](#)
[Appendix D - Public Comments](#)

Engineering and Public Works

- 3) [21-503](#) Banner holder program, Staff Report EPW-21-23

Recommendation:

That the COTW receive Staff Report No. EPW-21-023 for information, provide any additional direction to staff as the COTW considers advisable, and direct staff to prepare a budget request for Council's consideration.

- 4) [21-504](#) Inflow and Infiltration Funding Strategy, EPW-21-022

Recommendation:

That the COTW receive Staff Report No. EPW-21-022 for information, provide any additional direction to staff as the COTW considers advisable, and direct staff to prepare a report for Council's consideration.

Attachments: [Attachment 1 Definitions](#)
[Attachment 2 Catchments](#)
[Attachment 3 II Reduction Program Costs](#)

8. PUBLIC COMMENT PERIOD

Address Council on any topic that impacts Esquimalt (excluding items which are or have been the subject of a Public Hearing). Limit 2 minutes per speaker.

9. ADJOURNMENT



CORPORATION OF THE TOWNSHIP OF ESQUIMALT

Minutes - Draft

Committee of the Whole

Municipal Hall
1229 Esquimalt Road
Esquimalt, B.C. V9A 3P1

Monday, August 23, 2021

6:00 PM

Esquimalt Council Chambers

Present 7 - Mayor Barbara Desjardins
 Councillor Ken Armour
 Councillor Meagan Brame
 Councillor Jacob Helliwell
 Councillor Lynda Hundleby
 Councillor Tim Morrison
 Councillor Jane Vermeulen

Staff: Ian Irvine, Acting Chief Administrative Officer
 Jeff Miller, Director of Engineering & Public Works
 Deb Hopkins, Manager of Corporate Services
 Alicia Ferguson, Recording Secretary

Others: Chief Constable Manak, Victoria Police Department (VicPD)
 Inspector Michael Brown, VicPD Esquimalt Division
 Doug Crowder, Esquimalt Representative - Victoria and
 Esquimalt Police Board

1. **CALL TO ORDER**

Chair Hundleby called the Regular Committee of the Whole meeting to order at 6:00 PM and read the Territorial acknowledgement.

2. **LATE ITEMS**

There were no late items.

3. **APPROVAL OF THE AGENDA**

Moved by Councillor Brame, seconded by Councillor Morrison: That the agenda be approved as circulated. Carried Unanimously.

4. **MINUTES**

- 1) [21-431](#) Minutes of the Regular Committee of the Whole meeting held June 21, 2021
- 2) [21-432](#) Minutes of the Special Committee of the Whole meeting held July 12, 2021

Moved by Councillor Helliwell, seconded by Mayor Desjardins: That the Minutes of the Regular Committee of the Whole meeting held June 21, 2021 and the Minutes of the Special Committee of the Whole meeting held July 12, 2021, be approved as circulated. Carried Unanimously.

5. PRESENTATION

- 1) [21-430](#) Victoria Police Department 2021 Second Quarterly Report, Chief Del Manak

Chief Manak presented the Community Safety Report Card and together with Inspector Brown responded to questions from Council. Highlights of the presentation included calls for service statistics, crime rates and crime severity indexes, weighted clearance rates, an overview of crime trends in the community, special projects and community engagement initiatives, community safety campaigns, and strategic plan highlights.

Council comments included:

- * Ensuring crime statistics are tracked for a greater understanding of community resource involvement.
- * Graffiti concerns and enforcement.
- * Weighted Crime Rates rationale and recognition for good clearance rates.

6. PUBLIC INPUT ON ANY ITEMS LISTED ON THE AGENDA

Address Council on any item included on this Agenda, including Staff Reports and Communications (excluding items which are or have been the subject of a Public Hearing). Limit 2 minutes per speaker.

There was no electronic public input.

7. STAFF REPORTS***Engineering and Public Works***

- 1) [21-429](#) Active Transportation Network Plan Update, EPW-21-020
Staff responded to questions from Council.

Council comments included:

- * Various improvements and challenges for existing intersections, streets, and railway crossings.
- * Improving and strengthening the current infrastructure.
- * Appreciation for the quick build approach.
- * Ensuring a connected cycling network based on input from the cycling coalition.
- * Options for funding various transportation initiatives.
- * Providing more project details in the next round of public engagement so that residents may indicate priorities.
- * Aligning transportation improvements with climate action goals.
- * Consideration of increasing bicycle parking with increased cycling infrastructure.

8. PUBLIC COMMENT PERIOD

Address Council on any topic that impacts Esquimalt (excluding items which are or have been the subject of a Public Hearing). Limit 2 minutes per speaker.

Lynda O'Keeffe, *resident*, expressed appreciation for the clean up on Fraser Street.

9. ADJOURNMENT

Mayor Desjardins thanked all the individuals who worked at the vaccine centre that was operated out of Archie Browning and the involvement of Island Health throughout the pandemic.

Chair Hundleby thanked those involved in the successful hosting of the Esquimalt Community Art and Garden Tour.

Moved by Councillor Brame, seconded by Councillor Helliwell: That the Regular Committee of the Whole meeting be adjourned at 7:14 PM. Carried Unanimously.

MAYOR BARBARA DESJARDINS
THIS DAY OF , 2021

DEBRA HOPKINS, CORPORATE OFFICER
CERTIFIED CORRECT



CORPORATION OF THE TOWNSHIP OF ESQUIMALT

Municipal Hall
1229 Esquimalt Road
Esquimalt, B.C. V9A 3P1

Staff Report

File #:21-490

REQUEST FOR DIRECTION

DATE: October 6, 2021

Report No. FIN-21-017

TO: Laurie Hurst, Chief Administrative Officer

FROM: Ian Irvine, Director of Financial Services

SUBJECT:

Local Grant Policy

ESSENTIAL QUESTION:

What improvements would the Committee like to see in a revised Local Grant Policy?

RECOMMENDATION:

That the Committee of the Whole receive Staff Report No. FIN-21-017 for information, provide any additional direction to staff as the COTW considers advisable, and direct staff to prepare a report for Council's consideration.

BACKGROUND:

During recent years the Local Grant Committee has recommended the exploration of improvements to the local grant process and Council Policy No. FIN-20 Local Grants.

The current Local Grant Policy was amended in February 2016 to create an established events category and to amend the funding mechanism. With these changes in place, the Committee requested additional policy revisions to further improve the process. Later that year, further amendments were approved to adjust the grant process timing, alter the method of calculating the annual budgetary amount and limit the ability for multiple submissions during the same fiscal year.

Since that time, further changes were requested and, at the December 7, 2020 Council meeting, a revised local grant policy was presented. While Council agreed with some of the changes, there were some areas of concern and as a result, no consensus was achieved. Instead, Council directed staff to bring back a report for further discussion by the Committee of the Whole.

At the Committee of the Whole meeting on April 19, 2021, a revised draft Local Grant Policy was discussed. Some of the updates were again viewed as positive however, the Committee wanted to seek additional input prior to providing direction regarding any changes. Direction was given for the draft policy to be shared with the various community event committees to obtain their feedback. To

facilitate that, a copy of the policy was provided to all Council members serving as liaisons for the various community events. As well, the draft policy was included on the agenda for discussion at the October 7, 2021 meeting of the Parks and Recreation Advisory Committee.

ISSUES:

Based on recent Local Grant Committee deliberations and Council discussions, the following areas were identified with the intention of improving the local grant process and the related Council Policy.

Funding Level

Council had previously wanted to explore changes to the funding levels and the initial allocation amount in addition to the remaining amount available for subsequent, ad hoc requests. The annual local grant account balance is established in the Financial Plan at a level equal to a 0.50% tax revenue increase based on the previous year. Within a revised policy, a baseline amount could be established which could be increased annually by a percentage such as the consumer price index for Victoria.

As well, the Local Grant Committee currently has the ability to recommend an allocation of up to 90% of the annual amount during the initial intake with the remaining amount available to fund new grant requests during the rest of the year. During recent years, the number of ad hoc grant requests received after this initial review has been limited to one per year on average. While any change to this allocation percentage will not affect the total dollars available, it could have an impact on the Committee's deliberations and recommendations each year.

During the most recent Committee of the Whole discussion, there appeared to be agreement that no change to the current funding level or calculation was necessary.

Multiple Year Grants

While the capability for multi-year approvals exists for permissive tax exemptions, a similar application for local grants is more challenging. The ability to approve local grant funding for more than one year is often difficult due to the uncertainty about whether organizations intend to operate programs, projects, or events each year and if so, what the required financial support would be. While one potential exception could be the community events that are organized and held annually, it has been noted that amounts requested for some of these events has also fluctuated from year to year. As well, the granting over multiple years could potentially reduce the level of accountability and transparency if an application is not required as a result of a grant pre-approval.

In-Kind Support

Within the current Local Grant Policy, in-kind support is only eligible for those community events meeting the 'established event' criteria. Since the creation of this category, in-kind support has been provided to between four and seven community events each year. In 2019, total in-kind support in the value of \$62,000 was approved and while not issued in the form of cash, this amount still represented the utilization of Township resources and was funded from the local grant account.

Recently, some established event organizers have utilized a higher value of in-kind resources than was approved by Council. These situations have occurred in part due to the timing of when Township expenditures, such as wage costs, are recorded and allocated to each of the various events. This presents a unique challenge when providing support solely through non-cash payments.

During 2019, there were five recipients of in-kind services and the total non-cash value that was provided to these organizers was nearly \$74,000 or 20% over the approved allocation. While this has been a regular occurrence since the creation of an “established events” category, the Township has not previously attempted any cost recovery of excess in-kind utilization.

Since the last review by the Committee of the Whole, staff from the Finance and Parks and Recreation departments have met to discuss potential options for addressing this scenario. It was agreed that event organizers could meet with Township staff prior to the submission of an application. During these meetings the event could be discussed and based on the identified requirements, Township staff could provide the organizer with an approximate value of in-kind services that will be utilized. Organizers would be advised to include this amount in their application along with the understanding that in-kind utilization in excess of any approved amount would require payment to the Township. This new approach has been included in the revised policy.

Established Events

Through a previous Local Grant Policy amendment, the ‘established events’ designation was created for community events that satisfy certain criteria. This designation provides certain benefits including the eligibility to receive in-kind support and an exemption from having to address their application each year before the Local Grant Committee.

If the decision is made to eliminate the approval of in-kind support, the only remaining distinction between these established events and all other applicants is the annual requirement to formally address their application. When this designation was initially created, established events were excluded based on the anticipated consistency of their applications year over year however for some events this has not been the case. Additionally, this treatment for events remains inconsistent to that of all other applicants, including those who have applied to the Township for a number of years without a significant change in their operations or programs.

Evaluation Criteria

The Local Grant Committee has indicated that evaluating applications is sometimes challenging due to inconsistent information being submitted by applicants and the limited guidance provided within the existing Council Policy. To address these concerns, an updated application form and a corresponding scoring matrix could be created to establish parameters and categories to help guide the evaluation process.

During 2019, an online, fillable application form was created and made available on the Township website for all permissive tax exemption applicants to complete. This form was developed to gather all relevant information and facilitate a more consistent evaluation by the Local Grant Committee. Similar revisions could be made to the current local grant application form to assist with gathering

details about the project, event, or program as well as the applicant's organizational capacity, financial stability, and community commitment.

With consistent information being collected, the creation of a scoring matrix would improve the process by better correlating the application with the funding recommendations of the Local Grant Committee. This matrix could assist in the evaluation of each applicant in key areas such as organizational capacity, project feasibility, evidence of need and community impacts and involvement. By independently weighting each evaluation area, the Committee could then score each application based on the submitted information.

ALTERNATIVES:

1. That the COTW receive Staff Report No. FIN-21-017 for information, provide any additional direction to staff as the COTW considers advisable, and direct staff to prepare a report for Council's consideration.
2. That the COTW provide alternative direction to staff.
3. That the COTW request further information from staff.



CORPORATION OF THE TOWNSHIP OF ESQUIMALT

COUNCIL POLICY

TITLE: Local Grants Policy

NO. FIN - 20

PURPOSE:

This grant program is designed to financially assist community groups and not-for-profit societies and organizations in achieving their objectives. Local grant funding is intended to provide support to societies, organizations and committees with the expectation that alternate sources of funding will be secured.

PROCEDURES:

APPLICATION

- Fillable online application forms can be located on the Township website. Completed forms, together with all supporting documents may be printed and delivered or mailed to the Municipal Hall; or emailed electronically to the attention of the Director of Financial Services.
- All applications must be received prior to December 31 each year.
- Each organization must meet all the following criteria to apply:
 - Registered non-profit organization in Province of BC or registered charitable organization registered with the Canada Revenue Agency
 - Organization located within the CRD and its services benefit residents of the Township
 - Evidence of a clear mandate and competent administration
 - Evidence of active, ongoing volunteer involvement
 - Demonstrate financial stability and accountability
 - Evidence of funding source diversity and increasing financial self sufficiency
- Each application must include the following details:
 - the mandate and role of the organization;
 - a program or project budget and timeline;
 - key objectives of the program or project;
 - description of the program or project;
 - the program or project's anticipated benefits to the Township; and
 - the organization's most recent financial statements.
- Funding is intended for the purpose of facilitating programs, projects and events. The following are not eligible for grant funding:
 - Activities and costs considered the responsibility of other governments
 - Costs not directly associated with the approved project, program or event
- Organizations that receive a partial grant or are denied funding will be unable to make any additional request within the same calendar year.
- No retroactive funding applications will be considered.

FUNDING

Each year Council agrees on an amount of funding within the Financial Plan to support organizations seeking local grants. The initial balance in the account each year will be increased each year by a percentage equivalent to the previous year's annual CPI percentage for Victoria.

The Local Grant Committee will recommend the allocation of grants to programs, projects and events. This recommendation is not to exceed 90% of the initial local grant account balance. After Council's approval of the local grant allocations, any balance remaining in the account may be allocated throughout the remainder of the year.

To access any remaining funds, new applicants must submit an application to the Director of Financial Services and the applicant will be notified when their funding request will be considered by Council.

Limitations

- Not all applicants meeting the requirements under this Policy will necessarily receive a grant.
- Based on the number of grant applications, organizations may not receive the full amount of their request.
- Approval of a local grant each year does not represent a commitment to ongoing annual funding.

GRANT REVIEW PROCESS

- The Local Grants Committee will consist of three members of Council. Administration support will be provided by a representative from the Financial Services Department.
- Submissions will be reviewed by the Director of Financial Services to ensure each application is complete and that all conditions of funding have been satisfied. Once this review has been completed, all applications will be forwarded to the Local Grants Committee.
- The Committee will review all applications at a public meeting to be held prior to February 28 each year.
- The Committee will draft their recommendations to Council regarding the allocation of monetary and in-kind support. Council will approve the final decision on the allocation of support.
- Prior to March 31 each year, all monetary grant payments will be issued and Township departments will be notified of the approved in-kind limits.
- Communication will be sent to all applicants advising them of Council's decision and a list of recipients and approved amounts will be posted annually on the Township's website.

EVALUATION CRITERIA

The Local Grant Committee will assess each application based on the following categories:

Organizational Capacity - 20%

Program, project, or event aligns with organization's mandate; Organization has sufficient experience and capacity to complete program, project or event; Relevant experience for those leading and implementing the program, project or event; Organization moving towards financial self sufficiency

Project feasibility - 30%

Detailed work plan with reasonable timelines; Adequacy of budget for proposed program, project, or event; Expenditures appear reasonable; Other sources of revenue are identified and make up majority of program or project cost requirements; Sustainability initiatives during planning and execution.

Evidence of need - 20%

Strong evidence of community needs for the program, project or event; Clearly addresses a Township Strategic Objective; Target audience and objectives clearly defined

Community impacts and involvement - 30%

Township residents anticipated to access or participate in the program, project or event; Consideration of community interests and issues; Partnerships with other community groups; Level of volunteer involvement

CONDITIONS OF SUPPORT

- Funds must be used for the requested purpose. Any funds not used for the approved purposes must be returned upon request by the Township.
- All recipients must acknowledge the Township's support through social media and in all related publicity material including any on-site banners and signage.
- Each recipient of financial support must submit a final report to the Director of Financial Services prior to the submission of an application the following year. Failure to do so will result in your application not being forwarded for consideration. This report should include the following details for their project, program, or event:
 - a brief evaluation (based on the pre-established goals and objectives);
 - a financial statement of actual revenue and expenses;
 - numbers of volunteers and participants; and
 - an evaluation of the impact on the community
- Under any circumstances, if the program or project is not completed, the grant recipient organization must notify the Township during the same calendar year the funding was received. The Township of Esquimalt reserves the right to request reimbursement of the grant.

COMMUNITY EVENTS

- Funding requests for community events will be considered if the event is to be held within the Township boundaries.
- An application must be submitted for each year the event is being planned. This application should include event details as well as budgetary and financial information.
- Only community events will be eligible to receive in-kind support, unless otherwise approved by Council. Any approved in-kind support is intended to provide value to the events through the utilization of Township staff, facilities, or equipment without being directly invoiced for the related costs.
- Each year, prior to submission of a grant application, staff will work with event organizers to estimate the anticipated cost of any in-kind service utilization so this may be included as part of their request. While staff will attempt to provide an accurate estimate, event organizers will be responsible to reimburse the Township for any in-kind costs exceeding the amounts approved by Council
- Each Event Committee will be responsible for coordinating and obtaining insurance coverage for their event. Each Committee shall ensure that their event carries insurance with a minimum of \$3,000,000 liability coverage and the Township must be identified as an additional insured within the policy. Evidence of this insurance coverage must be provided to the Director of Financial Services prior to commencement of the event.
- Council may appoint a representative to act as a liaison and attend event committee meetings.
- All recipients of financial and/or in-kind support are required to submit a written report (see Conditions of Support) or provide a presentation to Council, if requested.



CORPORATION OF THE TOWNSHIP OF ESQUIMALT

Municipal Hall
1229 Esquimalt Road
Esquimalt, B.C. V9A 3P1

Staff Report

File #:21-457

REQUEST FOR DIRECTION

DATE: October 12, 2021

Report No. DEV-21-070

TO: Laurie Hurst, Chief Administrative Officer

FROM: Karen Hay, Planner and Bill Brown, Director of Development Services

SUBJECT:

New fencing regulations and deer

ESSENTIAL QUESTION:

What changes to the Zoning Bylaw would the Committee like to see to enable residents to further protect garden vegetation from Columbia Black-Tailed Deer feeding?

RECOMMENDATION:

That the Committee of the Whole receive Staff Report No. DEV-21-070 for information, provide any additional direction to staff as the Committee considers advisable, and direct staff to prepare a report and Zoning Bylaw amendment bylaw for Council's consideration.

BACKGROUND:

Appendices

Appendix A: Council Motion

Appendix B: Pictures of fencing, netting, and other defensive approaches

Appendix C: Zoning Bylaw, 1992, No. 2050, Section 22. Fences and Retaining Walls

Appendix D: Public Comments

Purpose

On June 28, 2021, Council passed a motion directing staff to draft a report regarding regulation of fence heights and design that "should briefly explore ways to increase fence heights along with guidelines to allow for esthetics of the neighbourhood" (Appendix A).

The deer feeding in Esquimalt gardens are Columbia Black Tailed Deer (*Odocoileus hemionus columbianus*). They are native to Vancouver Island and are very adaptable to human dominated environments. They are considered a mid-sized deer with the ability to jump up to 2 metres, occasionally a little higher.

Deer are creatures of habit and will return to the same areas regularly, so acting early to discourage

their browsing of valued vegetation will reduce damage. There are various ways to lessen the impact of feeding, including protective structures (including fencing), habitat modification (providing more native vegetation for feeding), repellents, and planting deer resistant plants. In mid to late summer, bucks (male deer) will also rub their antlers on tree trunks, which is not a problem for larger trees but can cause severe damage to young trees. As shown in Appendix B, Esquimalt residents have employed various creative ways to use protective material to protect their favoured plants and garden areas.

Fencing is considered the most effective measure for property owners to protect gardens, where the fence encloses an entire area, leaves no holes, or gaps, and extends flush to the ground. Deer have been recorded passing through openings as small as 19 centimetres and will travel along a fence-line to seek an opening. Erecting a fence around a new garden area has been shown to be more effective than trying to deter established behavior.

Esquimalt Zoning

The Zoning Bylaw, 1992, No. 2050 defines a fence as:

A vertical barrier which accomplishes any one or more of the following:

- (1) prevents access;
 - (2) provides physical separation;
 - (3) provides visual separation;
 - (4) provides enclosure of a Parcel or portion of a Parcel;
- but does not include a Retaining Wall or Guard.

Fencing is governed by Section 22. Fences and Retaining Walls of the General Regulations (Appendix C) with height restrictions found in the various residential zones where the following regulation is commonly found:

“Subject to Section 22, no fence shall exceed a Height of 1.2 metres in front of the front face of the Principal Building and 2 metres behind the front face of the Principal Building”.

On corner lots, fencing in an exterior side yard is treated similarly to a front yard fence (per Section 22.(3)).

Fencing is further restricted within 6 metres of highway corners in order to maintain visibility at intersections (per Section 24. Visibility at Intersections).

Regulations From Area Municipalities

Typical allowable heights for backyard fences in most municipalities in BC is 2 metres. The District of Saanich and Town of View Royal have regulations very similar to Esquimalt. The District of Oak Bay and City of Victoria allow higher fences with certain restrictions.

In Oak Bay a fence located in a backyard is restricted to 2 metres in height (same as Esquimalt) with an additional 0.46 metres of trellis allowed. Oak Bay places the following restriction on the trellis:

“For each section of the fence as defined by the distance between posts along the fence line, the trellis-work must be of substantially uniform density, with the openings between the laths evenly distributed in all directions and representing not less than 25% of the total area of the vertical plane, including the top rail and cap, of the portion of the fence above the maximum height set be 6.2 or 6.3, whichever is applicable.” (Oak Bay - Bylaw No. 3536)

The City of Victoria allows backyard fences up to 1.83 metres in height for residential zoned properties or up to 2.13 metres if the fence is constructed of wire, strands, vertical iron, 15.24 cm spaced pickets or lattice, and has at least 75% open space in the fence design.

In Oak Bay front yard and corner lot fences may not exceed 1 metre in height.

In Victoria front yard fences are limited to 1.22 metres in height.

ISSUES:

Fence construction that complies with zoning regulations does not require a permit. Though fence details are included within the landscape plans of development permit applications, a development permit is not required to erect a fence. Therefore, design guidelines would provide little enforcement capacity and it would be more worthwhile to consider additional zoning regulations and exceptions within Section 22 of the Zoning Bylaw.

A solid fence can be attractive and may increase privacy between neighbours. However, taller solid fences may also prevent sun light from entering garden areas and hence reduce plant productivity due to reduced access to light of an appropriate wave length and reduced heat units, block valued views in hilly areas, and can hinder protective neighbourhood surveillance. Also, continuous fencing that extends above eye level can deter pedestrians from walking in an area and can impact the character of an established neighbourhood. Finally, excessive fencing creates a fortress appearance that can damage the public's perception of an area. For these reasons, care must be taken in seeking a design solution if fences are used as a tool to control deer browsing pressure on garden areas.

As can be seen in Appendix “B”, there are a myriad of fence designs in Esquimalt that have been built by residents to protect the vegetation in front yards from browsing by deer. Most are not compliant with the existing fence regulations in the Zoning Bylaw. Blanket enforcement of the existing regulations would create a problem for Bylaw Enforcement as there are so many fences with so many designs. A better approach would be to acknowledge the need for fences that help protect gardens from deer browsing but are attractive and do not create the issues outlined in the previous paragraph. Such an approach would reduce potential bylaw complaints and support the existing urban agricultural objectives and policies in the Official Community Plan.

The Official Community Plan contains the following objectives related to urban agriculture in this context:

Support the establishment of allotment gardens, community gardens, edible landscapes, food bearing trees and other types of food production activities.

To promote local food production as a means to mitigate climate change and support food resiliency in an emergency.

Not allowing residents to protect their agricultural pursuits from being damaged or destroyed by deer would be contrary to the urban agricultural objectives and policies of the Official Community Plan. Furthermore, the Official Community Plan contains several policies and guidelines related to the naturalization of landscapes, reduction of green house gas emissions, and climate adaptation that are supported through the growth of urban agriculture in front and side yards of residential properties.

Finally, the Township has embarked on a multi-year study of resident deer populations to collect data on the potential impact of immunocontraception as a tool for controlling deer populations in Esquimalt. Depending on the results of the study and its cost effectiveness, it may become a tool in helping to control the deer population in Esquimalt and reduce the browsing pressure on residential gardens.

For Consideration

- The existing fence heights have served the community well for many years and are not out of character with neighbouring municipalities.
- In Esquimalt numerous homes technically face an exterior side yard.
- In a front yard and exterior side yard, taller fences could be restricted to enclosing only a percentage of that yard. Many gardeners only fence the garden bed that is used to grow produce. This would allow deer some opportunity to feed in neighbourhoods.
- That portion of a fence that exceeds existing height limits could be required to be very visually open (see Victoria's requirements above), possibly requiring use of a different material than the lower portion of the fence. Several examples of this can be seen in Appendix B.
- Fences are currently not required to be setback from lot lines. Over height fence sections could be required to be setback 1-2 metres from front and exterior side lot lines.
- Fencing with a top rail provides stability for the fence but allows deer to judge the height more easily.
- Netting has been known to get caught in deer antlers and traps other creatures, primarily birds.
- Chain-link fencing would meet a 75% open space design requirement but has an industrial appearance.
- Post height does not need to be included in the fence height calculation.
- A maximum height should be considered even for wire and pole extension, 2.5 metres would exceed the height Black Tailed Deer can jump.
- When a homeowner desires a more substantial, higher fence, a development variance permit application is a reasonable option.
- Homeowners could also be encouraged to plant a variety of native plants outside of fenced areas that could tolerate some deer feeding once established.

ALTERNATIVES:

1. That the COTW receive Staff Report No. DEV-21-070 for information, provide any additional

direction to staff as the COTW considers advisable, and direct staff to prepare a report and Zoning Bylaw amendment bylaw for Council's consideration.

2. That the COTW provide alternative direction to staff.
3. That the COTW request further information from staff.

Excerpt from June 28, 2021 Council Meeting Minutes

RE - Regulation for Fences in Esquimalt, Councillor Meagan Brame - For Consideration Council

Comments included options to reduce impact of deer on food security through exploring differentiating fence heights, the contraception study as not an immediate solution to mitigate the impact of deer, and exploring fence regulations of other municipalities.

Moved by Councillor Brame, seconded by Councillor Vermeulen:

WHEREAS: Esquimalt's current bylaw regulating fence heights does not address issues of deer in yards, desecrating gardens;

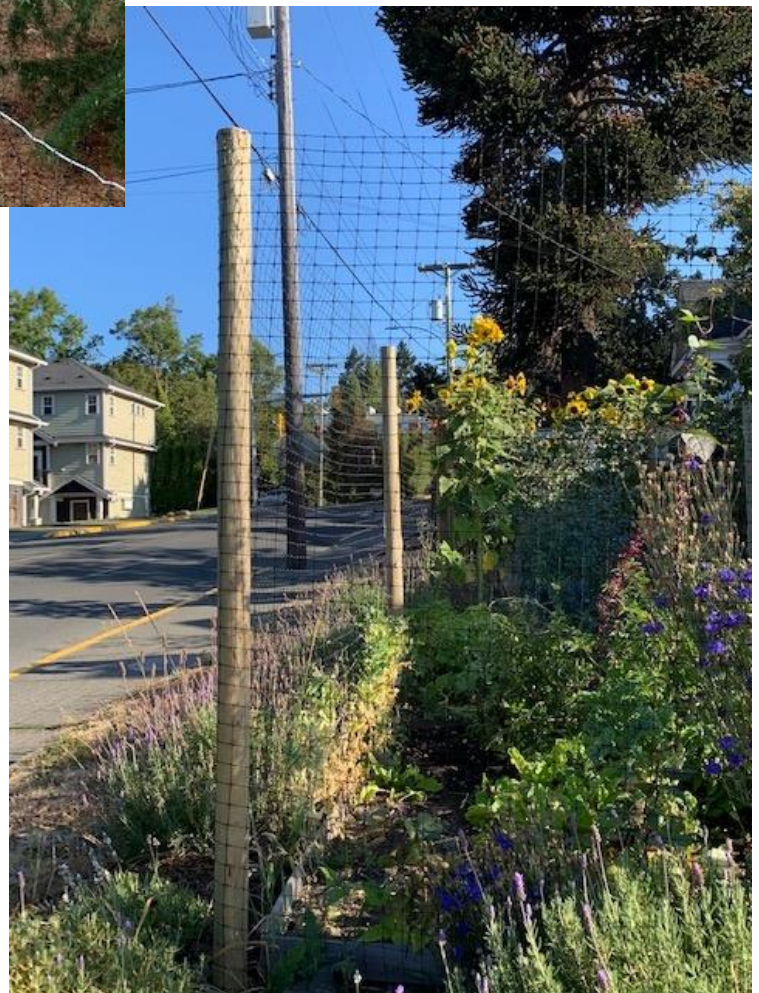
WHEREAS: Esquimalt's Official Community Plan's section 14.2 Urban Food Production supports the establishment of allotment gardens, community gardens, edible landscapes, food bearing trees and other types of food production activities;

WHEREAS: Esquimalt has yet to receive permission from the Province to move forward with the immunocontraception of deer and even once permission is granted it will take several years for the deer counts to lower;

THEREFORE, BE IT RESOLVED: That Council direct staff to draft a staff report for consideration and discussion at a Committee of the Whole meeting regarding fence heights and design. The report should briefly explore ways to increase fence heights along with guidelines to allow for esthetics of the neighbourhood. Carried Unanimously.

Local Pictures of Fencing, Netting, and other Defensive Approaches



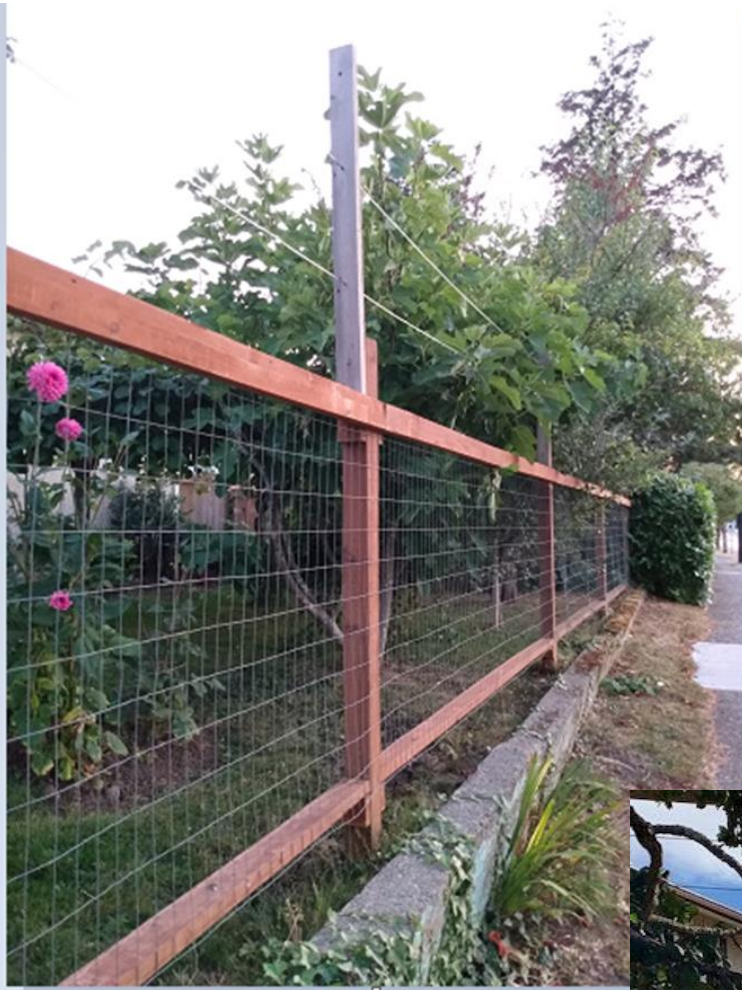








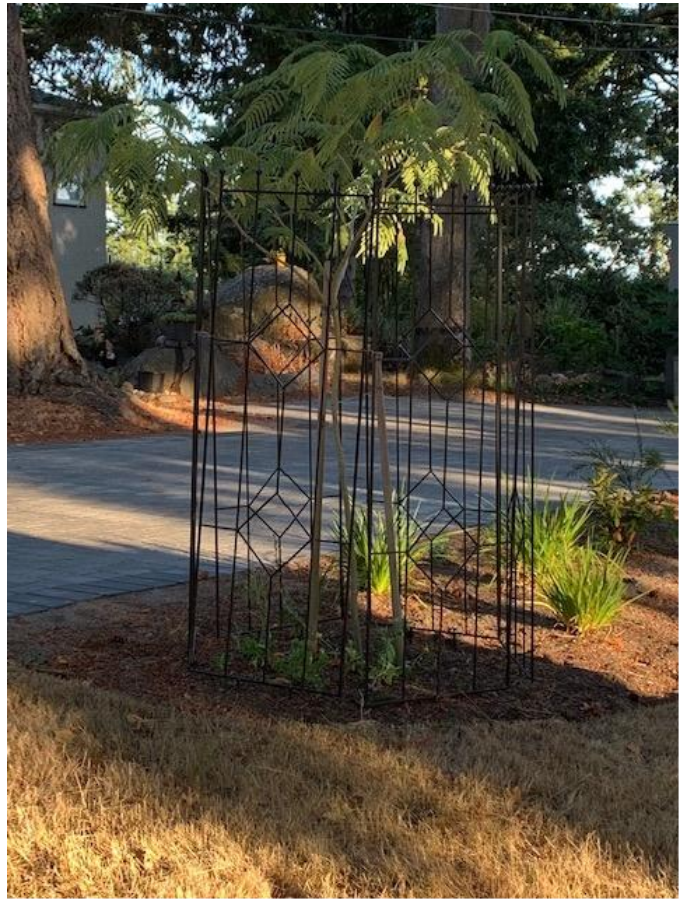






Creative Solutions Without Fencing





Development Variance Permit Approved Front Yard Fences



19. NON-CONFORMING SITING, DIMENSIONS, PARKING

Where a Building or Structure's siting, size, dimensions, parking or loading does not meet the requirements of a Zoning Bylaw adopted after they were constructed, the Buildings or Structures may be repaired, extended or altered, but only to the extent that the repair, extension or alteration would, when completed, involve no further contravention of the Bylaw beyond the contravention that existed prior to the time the repair, extension or alteration were commenced.

20. NON-CONFORMING PARCEL SIZE

Where a Parcel of land shown on a plan duly registered in the Land Title Office prior to the effective date of this Bylaw does not contain the minimum Parcel Size Area required in the Zone in which the Lot is located, the Parcel may be used subject to all other requirements of the Zone being met.

21. ACCESSORY BUILDINGS AND USES

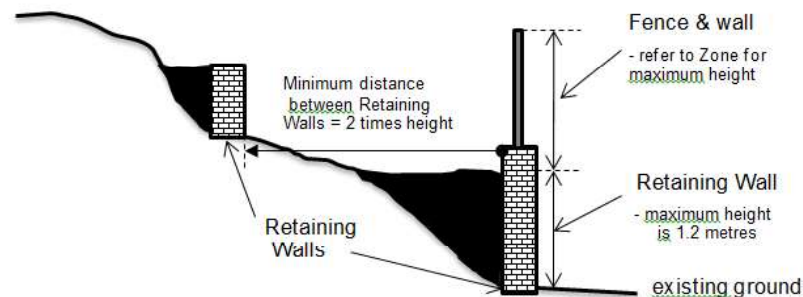
- (1) No Accessory Building or Structure shall be erected on any Parcel unless the Principal Building to which the Accessory Building is an incidental Use has been erected or is being erected simultaneously with the Accessory Building.
- (2) Where an Accessory Building is attached to the Principal Building, it is considered a part of the Principal Building and shall comply in all respects with the requirements of the Bylaw applicable to the Principal Building.

22. FENCES and RETAINING WALLS

[Amendment, 2018, Bylaw No. 2938]

- (1) Retaining Walls shall not exceed a height of 1.2 metres above the existing ground measured from the low side of the Retaining Wall, to the highest point of the Retaining Wall.
- (2) Retaining Walls must be spaced at a minimum of 1:2 height to horizontal separation ratio of the Retaining Wall having the greater height.

Retaining walls



- (3) Where a Parcel has an Exterior Side Lot Line, no Fence shall exceed a Height of 1.2 metres, within the Front Yard and the Exterior Side Yard.
- (4) On a Panhandle Lot no Fence in a Front Yard shall exceed a height of 2.0 metres, however, fencing along the Access Strip (or Access Route) shall be subject to the Fence height requirements of the properties abutting the Access Strip (or Access Route).
- (5) Barbed wire fencing or any other like material shall not be used.
- (6) Fences shall not be electrified.
- (7) Sections 34(10), 38(11), 40(11), 67.32(8) and 67.58(8) notwithstanding, where a residential parcel is located immediately adjacent to the E & N right of way, a Fence located immediately adjacent and parallel to that right of way may have a Height of no more than 2.0 metres above the Grade of the E & N right of way to ensure privacy for the residents.
- (8) Section 22(1) notwithstanding, where a residential parcel is located immediately adjacent to the north side of the E & N right of way, a Fence on top of a retaining wall located immediately adjacent and parallel to that right of way may have a Height of not more than 2 metres above the Grade of the E & N right of way to ensure privacy for the residents.

23. SCREENING AND LANDSCAPING

- (1) Where a Parcel is developed for a commercial, industrial, or institutional Use and where such a Parcel shares a property line(s) with a Parcel that is Zoned for Residential Uses, Screening along such property line(s) of not less than 2 metres in Height shall be provided.
- (2) Where a Parcel is developed for a commercial, industrial, or institutional Use and where such a Parcel is separated by a lane from a Parcel that is Zoned for Residential Uses, Screening along the entire property line abutting the lane of not less than 1.2 metres in Height shall be provided.
- (3) Notwithstanding sub-section 23(2), Screening is not required for the points of ingress and egress and for a distance of 3 metres on either side of the points of ingress and egress.
- (4) Screening and Landscaping required by this Bylaw shall be maintained at all times by the owner of the Parcel on which it is required.
- (5) No garbage container exceeding 0.5 cubic metres in capacity shall be located so as to be visible from any Highway other than a lane.

24. VISIBILITY AT INTERSECTIONS

In the area bounded by the intersecting lot lines at the intersections of two or more Highways, and a line joining points along the lot lines 6.0 metres from their point of intersection:

- (1) No Structure or other visual obstruction shall be located within 0.6 metres to 3.0 metres above the crown of the abutting Highways; and
- (2) No Landscaping, Screening or other vegetation shall be maintained or allowed to grow so

Deborah Liske

Subject: FW: Protecting my front yard from the ravages of deer

From: Esther Stevens <[REDACTED]>
Date: September 21, 2021 at 12:05:58 PM PDT
To: Mayor and Council <mayorandcouncil@esquimalt.ca>
Subject: Protecting my front yard from the ravages of deer

Dear Mayor Desjardins and Council members,

I am writing to propose a change to the current fence bylaw. Most of my corner property has a very wide Boulevard around it and I have a narrow backyard that gets limited sun. I want to grow vegetables in my sunnier front corner but have to protect it from deer, much more challenging with a corner lot. I would like to see 8' posts with deer fencing allowed as it would not obscure visibility in any way and it would be totally on my property, a minimum of 5.1 metres from the property line. Plus I could share growing of food with neighbours who do not have access to a garden.

Thanks for your consideration,
A community-minded resident.

Sent from my iPad

CORPORATION OF THE TOWNSHIP OF ESQUIMALT	
RECEIVED:	September 22, 2021
For Information	__ CAO __ Mayor/Council
Other	Bill
Referred to:	
For	__ Action __ Response __ Report
For Agenda	__ Council __ COTW __ IC

Deborah Liske

Subject: FW: Let us protect our gardens

From: Meagan Brame <meagan.brame@esquimalt.ca>
Sent: June-13-21 9:29 PM
To: Christie Eng <[REDACTED]>
Cc: Mayor and Council <mayorandcouncil@esquimalt.ca>
Subject: Re: Let us protect our gardens

CORPORATION OF THE TOWNSHIP OF ESQUIMALT	
RECEIVED:	June 14, 2021
For Information	<input type="checkbox"/> CAO <input type="checkbox"/> Mayor/Council
Other	<input type="checkbox"/>
Referred to:	<u>Anja</u>
For	<input type="checkbox"/> Action <input type="checkbox"/> Response <input type="checkbox"/> Report
For Agenda	<input checked="" type="checkbox"/> Council <input type="checkbox"/> COTW <input type="checkbox"/> IC

(agenda when up for discussion)

Thank you for your email and support. I am forwarding to staff to be added as input on my motion.

Thank you

Councillor Meagan Brame
Township of Esquimalt

> On Jun 13, 2021, at 6:06 PM, Christie Eng wrote:

>

> Please support councillor Brames request for staff to study the benefits of higher fences with consideration to maintaining neighborhood atmosphere.

>

> Solid posts with wire works well. Not chain link necessarily. I've seen a simple grid of 6 inches. Another option is a nice looking hedge or fence up to 1.2 m. with rows of wire between posts above that.

>

> Please give staff a short deadline. This issue has been pushed to the background for too long.

>

> Thanks

> Christie Eng

> 931 Dunsmuir

[REDACTED]

[REDACTED]



CORPORATION OF THE TOWNSHIP OF ESQUIMALT

Municipal Hall
1229 Esquimalt Road
Esquimalt, B.C. V9A 3P1

Staff Report

File #:21-503

REQUEST FOR DIRECTION

DATE: October 13, 2021

Report No. EPW-21-023

TO: Laurie Hurst, Chief Administrative Officer

FROM: Jeff Miller, Director of Engineering and Public Works

SUBJECT:

Banner Program

ESSENTIAL QUESTION:

Should the Township maintain a four-season banner program?

RECOMMENDATION:

That the COTW receive Staff Report No. EPW-21-023 for information, provide any additional direction to staff as the COTW considers advisable, and direct staff to prepare a budget request for Council's consideration.

BACKGROUND:

The Township has been installing banner holders on light standards along roads and parking lots. There are two banner holders on each of the light standards located within roadways. Banners that are on display are:

- Four seasons (winter, spring, summer, fall) in rotation
- Communities in Bloom (hung in conjunction with four seasons)
- Buccaneer Days (hung in conjunction with four seasons)
- Remembrance (hung in conjunction with four seasons)

Banner holders are located at the following locations:

- Esquimalt Road - 36
- Admirals Road - 10
- Craigflower Road - 20
- Recreation/Archie Browning parking lots - 20
 - Total holders - 86

The changeover of banners requires two public works staff, a fleet bucket truck and contracted traffic control. Due to some of the locations of the banner holders within the road right of way, Public Works must carry out traffic control to hang and take down banners. This activity impacts traffic movements due the necessity of a lane closure but is transitory in nature. Cost varies from approximately \$5,000 (each change) for changing the four-season banners to approximately \$3,000 for the special occasion banners. These costs are for obtaining traffic control services for the changeover of banners.

ISSUES:

The largest inventory of banners is the four-season banners. These banners are approximately 9 to 10 years old. Due to their exposure to the elements these banners are coming to the end of their life span and will need to be replaced in the next two years. Due to this upcoming asset renewal, staff is requesting direction on the nature of the banner program and if it requires modification.

There are three options to review. They are:

1. No Banners
2. Status Quo
3. Two Season Banners

Option 1 - No Banners

Under this option, the four-season banner program would be discontinued. All the banner holders would remain on the street light standards, yet would be unused for the better part of the year. The other banner events would be maintained. This option would not see reinvestment in this asset. This results in saving approximately \$55,000 every 10 years. Staff and equipment costs would be reallocated to other activities. Approximately \$20,000 a year would be saved in operational expenditures as traffic control would not be required.

Option 2 - Status Quo

For this option, the four-banner program would remain in its current form. The costs associated with the program would remain within the capital (\$55,000 every 10 years) and operational (\$20,000 a year in traffic control costs) budgets. Staff and equipment costs would be maintained in the operating budget.

Option 3 - Two Season Banners

Under this option, the seasonal banner program would be modified from a four-season banner scenario to a two-season banner scenario. The two seasons would be fall/winter and spring/summer. The images on the banners would be more generic to reflect this combination of seasons.

This change does not significantly impact the budget for the replacement of the banners. The 86 banners would be hanging for six months of the year as opposed to three months. This will result in a decrease in the life expectancy of the banners. It is anticipated that the life of a banner would be

reduced from 10 years to 6/7 years. The replacement cost of \$55,000 remains the same, but is now occurring on a reduced life span of 6/7 years. Approximately \$10,000 per year in operational costs would be saved as traffic control requirements would be reduced by half. The reduced usage of staff and equipment costs would be reallocated to other activities.

ALTERNATIVES:

1. That the COTW receive Staff Report No. EPW-21-023 for information, provide any additional direction to staff as the COTW considers advisable, and direct staff to prepare a budget request for Council's consideration.
2. That the COTW provide alternative direction to staff.
3. That the COTW request further information from staff.



CORPORATION OF THE TOWNSHIP OF ESQUIMALT

Municipal Hall
1229 Esquimalt Road
Esquimalt, B.C. V9A 3P1

Staff Report

File #:21-504

REQUEST FOR DIRECTION

DATE: October 13, 2021

Report No. EPW-21-022

TO: Laurie Hurst, Chief Administrative Officer

FROM: Jeff Miller, Director of Engineering and Public Works

SUBJECT:

Inflow and Infiltration Strategy

ESSENTIAL QUESTION:

How will the inflow and infiltration activities for the private and public portions of the collection system be funded?

RECOMMENDATION:

That the COTW receive Staff Report No. EPW-21-022 for information, provide any additional direction to staff as the COTW considers advisable, and direct staff to prepare a report for Council's consideration.

BACKGROUND:

The term inflow and infiltration (II) is the term to denote the flow of stormwater or ground water into the sanitary collections system. See Attachment 1 for pipe ownership, allocation of II and definitions. This water does not need to be treated before being returned to a receiving water body. Under the Liquid Waste Master Plan (LWMP), the Township has several obligations. These are:

1. Reduce the maximum average daily wet weather flow (ADWF) to less than 4 times the ADWF by 2030; and
2. Eliminate overflows less than a 5-year return period.

The Capital Region District (CRD) reports to the Province under the LWMP every two years on II flows within the Core Area Communities. 2021 is a reporting year. The report identifies that the Township has an estimated 5-year II rate of 54,896 L/ha/day. This estimate translates to an overall rating of 6.1 x ADWF.

To lower this rating, the Township and CRD developed an inflow and infiltration master plan (IIMP). The IIMP determined that the various catchments range from 5 to 9 x ADWF with an average flow of 5.7 ADWF. See Attachment 2 for catchment map. Through the IIMP it is anticipated that this rating

can be lowered to the 4 x ADWF threshold.

The IIMP will see rehabilitation of sewer mains and laterals (private and public). Each catchment would need to experience rehabilitation of the various components (collection mains, public laterals, private laterals) within the collection system. By carrying out a targeted rehabilitation plan for the first three years, the ADWF would be reduced from 5.7 to 5. Undertaking the next five years of targeted rehabilitation works would reduce the flow to 4.2 x ADWF. Specific replacement of the laterals over this period would see flow reduced to 4.0 x ADWF. Depending on the condition of the laterals, the cost of the program would range from \$11.6 million to \$12.6 million. See Attachment 3 for IIMP breakdown of activities and costs.

ISSUES:

II flows are significant within the Township's sanitary collection system. This is due to the age of the system, condition and pipe materials used in its construction. Efforts to upgrade the system have continued and recently have included:

- Installation of inspection chambers at the property on laterals (various locations for new construction or test/clears)
- Specific location smoke and dye testing (Gosper Crescent cross connections)
- Separation of combined manholes (Uganda)
- Main line replacement (Various locations)
- Spot replacement of main line (Various locations)
- Inspection of the collection system
- Modelling of the collection system

The cost of these activities has been funded by:

- Fees
- Operational line items
 - Modelling - \$50,000
 - IIMP - \$75,000
- Capital projects
 - II - \$150,000
 - Corridor Management - \$250,000
 - Pipe Upgrade - \$250,000

Council has given direction to staff that repairs/upgrades on private portion of laterals would be structured as cost sharing. The Township would pay 50% of the cost to replace a private lateral. The remaining 50% of the cost would be the homeowner's responsibility. On average the cost for repairing/upgraded a private lateral will range from \$10,000 to \$15,000 depending on the length of the lateral, type of methodology utilized and above/below ground conditions. The homeowner would have the option of paying for the work at the time of rehabilitation or repayment over time through taxation against the property.

Currently the Township has two types of taxation with respect to wastewater collection and treatment. The first tax is required to pay for the Township's portion of the capital cost to construct the wastewater plant. All properties within the Township pay this tax. The second tax is to cover the operational costs and maintenance of the wastewater collection system and wastewater plant. This cost is based on actual flows entering the plant and projects. This tax comes in the form of CRD requisition for this work. This tax is applied to all properties within the Township.

Undertaking the planning, public engagement, tendering, construction and project management of the construction will require the work to be either undertaken by staff or a consultant. This cost will be dependent upon which direction/option the Committee chooses to take and will be quantified and included as part of the report that comes back to Council after consultation with the CAO.

There are four funding options to review. They are:

1. Status Quo
2. Long term borrowing
3. Taxation
4. Yearly capital projects

Option 1 - Status Quo

Under this option, funding for IIMP would be obtained through annual budgetary requests. These requests would be approximately \$500,000 per year. The work would be carried out by either Public Works or a contractor depending on size of the project and rehabilitation methodology required.

Requests for funding would be submitted within the budgetary process and would be assessed along with other capital budget requests. Due to capacity of the Capital Projects Reserve Fund, a tax increase may be required to accommodate these projects. This increase would be in the range of 1% to 2% (based on 2021 budget, 1% = \$300,000) each year to cover these requests. Funding for these projects may not be approved due to budget priorities during a specific budget cycle. It is unlikely that the objectives of sufficiently lowering II to below 4 x ADWF would be achieved through this funding model and the Township could face fines or other actions from the Ministry as a result.

Option 2 - Long Term Borrowing

For this option, the Township would apply for a long-term loan to fund this work. The loan would be paid back over a long period (between 6 to 30 years). Due to the requirement to pay back the loan, taxation would be needed to assist this process. This would translate into a 3% to 4% tax increase (based on 2021 budget) each year to supply funding to the Capital Project Reserve Fund to deal with the repayment. All the funds would be obtained at the beginning of the process and drawn upon as required.

The Township does have the ability to obtain this loan within its borrowing capacity. However, approval for undertaking this option would require the completion of an Alternative Approval Process (AAP). Under this process, the electorate will be requested to approve the request for funding. If 10% of the electorate decide against it, a funding request will not be made for that year and as result no

work will be carried out.

Option 3 - Taxation

Under the taxation option, the funding for this program would be acquired through a form of taxation. Two options available to the Township are: local area servicing (LAS) and parcel tax.

The LAS approach will see the establishment of service area(s) within the Township. For this program, these areas would most likely be catchment areas (Colville, Uganda, Forshaw, Devonshire, Kinver) of the sanitary collection system. The Township would present the LAS to the electorate within the service area(s). If 10% of the electorate within the service areas raises objections to the LAS, it would be defeated, and no work would occur. The LAS can be reapplied for in the next year. This approach would only see area(s) defined being responsible for the additional taxation and other properties in Township would not carry this burden. If issues will remain in other catchments which will still require further actions on behalf of the Township to correct.

The parcel tax approach would see a tax applied to all properties within the Township that are currently receiving or have a reasonable opportunity to receive a specific service. This form of tax is separate from property taxes and is generally used to recover fixed capital costs for infrastructure. Established through bylaw, the parcel tax must identify the service, state the basis for the tax (i.e., unit, frontage, area) and specify the years for which the tax is imposed. The revenue gained from this tax would then be used to fund the program.

Option 4 - Yearly Capital Projects

This option is similar to Option 1. The program would establish an annual list of projects that would meet the IIMP objectives requiring funding that year. This project list and estimated costs would be submitted during the budget process for discussion. This project list would be assessed along with other budgetary priorities and projects. Based on the costs the IIMP has identified this would translate to a 4% to 5% (based on 2021 budget) tax increase per year of the program.

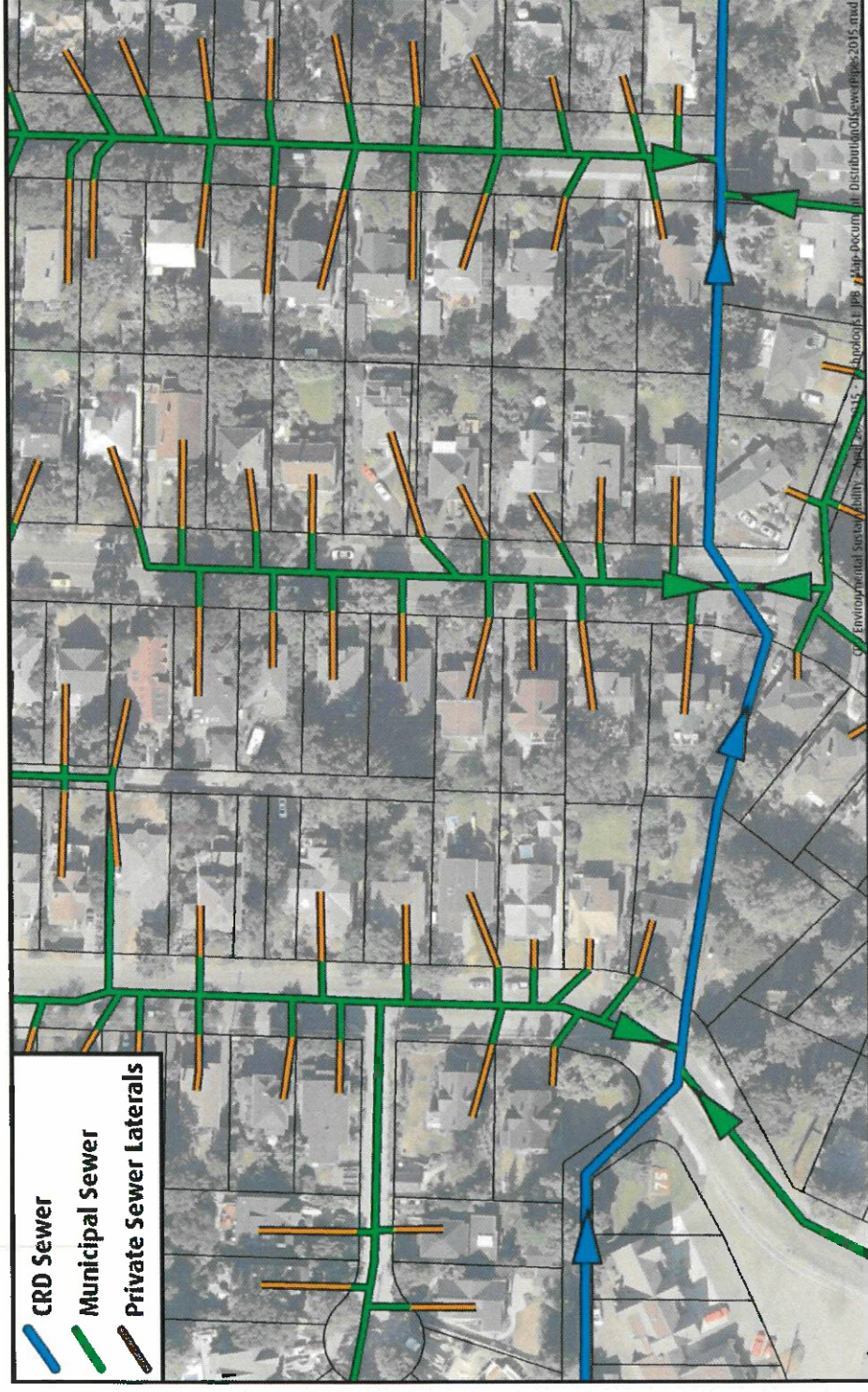
With direction from Committee, a funding model can be decided upon and further refined for discussion and execution. With all the funding options, applying for grants from senior levels of government or other sources will be undertaken when these opportunities become available. While these funding opportunities can supplement the IIMP program, the Township will still have to apply and be awarded these grants with direct competition with other applicants. Most funding opportunities generally require cost sharing between the funding agency and the Township. If this is the case, the Township will be required to allocate for their portion of the funding through the budget process.

ALTERNATIVES:

1. That the COTW receive Staff Report No. EPW-21-022 for information, provide any additional direction to staff as the COTW considers advisable, and direct staff to prepare a report for Council's consideration.
2. That the COTW provide alternate direction to staff.

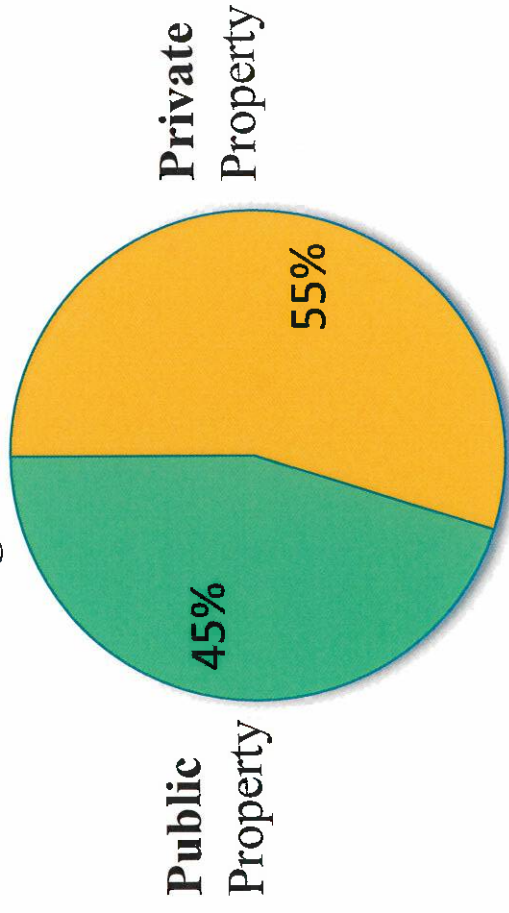
3. That the COTW request further information from staff.

Who owns the pipes?

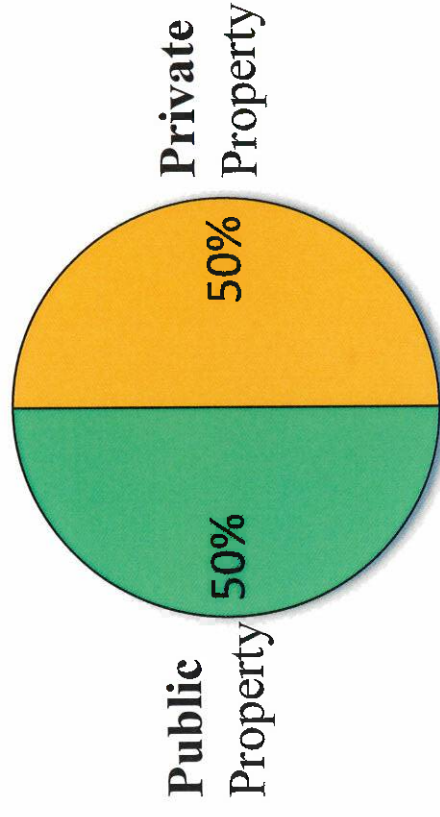


Magnitude of Private Property I&I Issue

Length of Sewers



Contribution to I&I



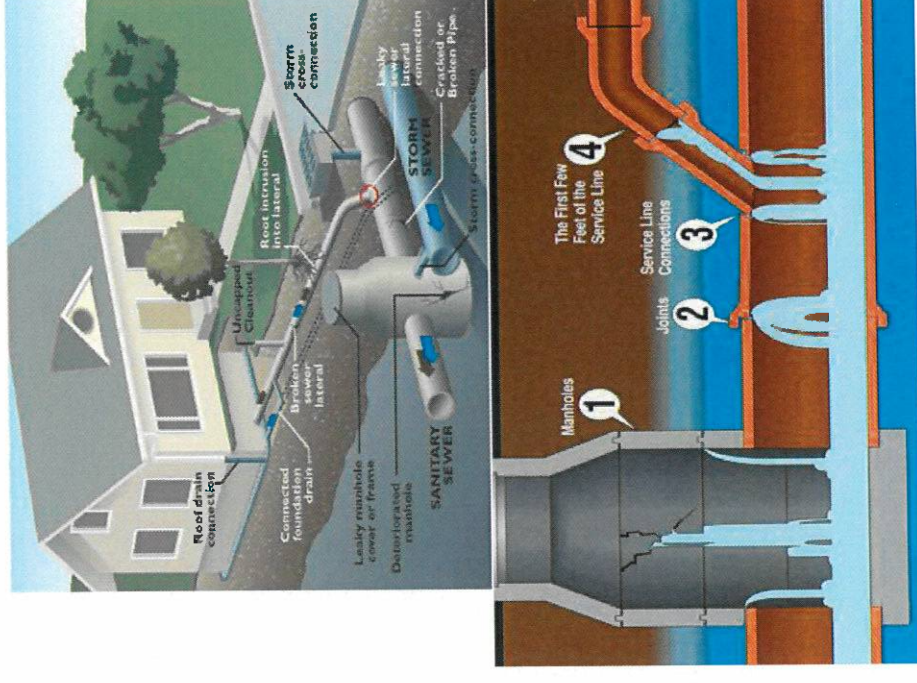
What is Inflow & Infiltration?

- **Inflow**

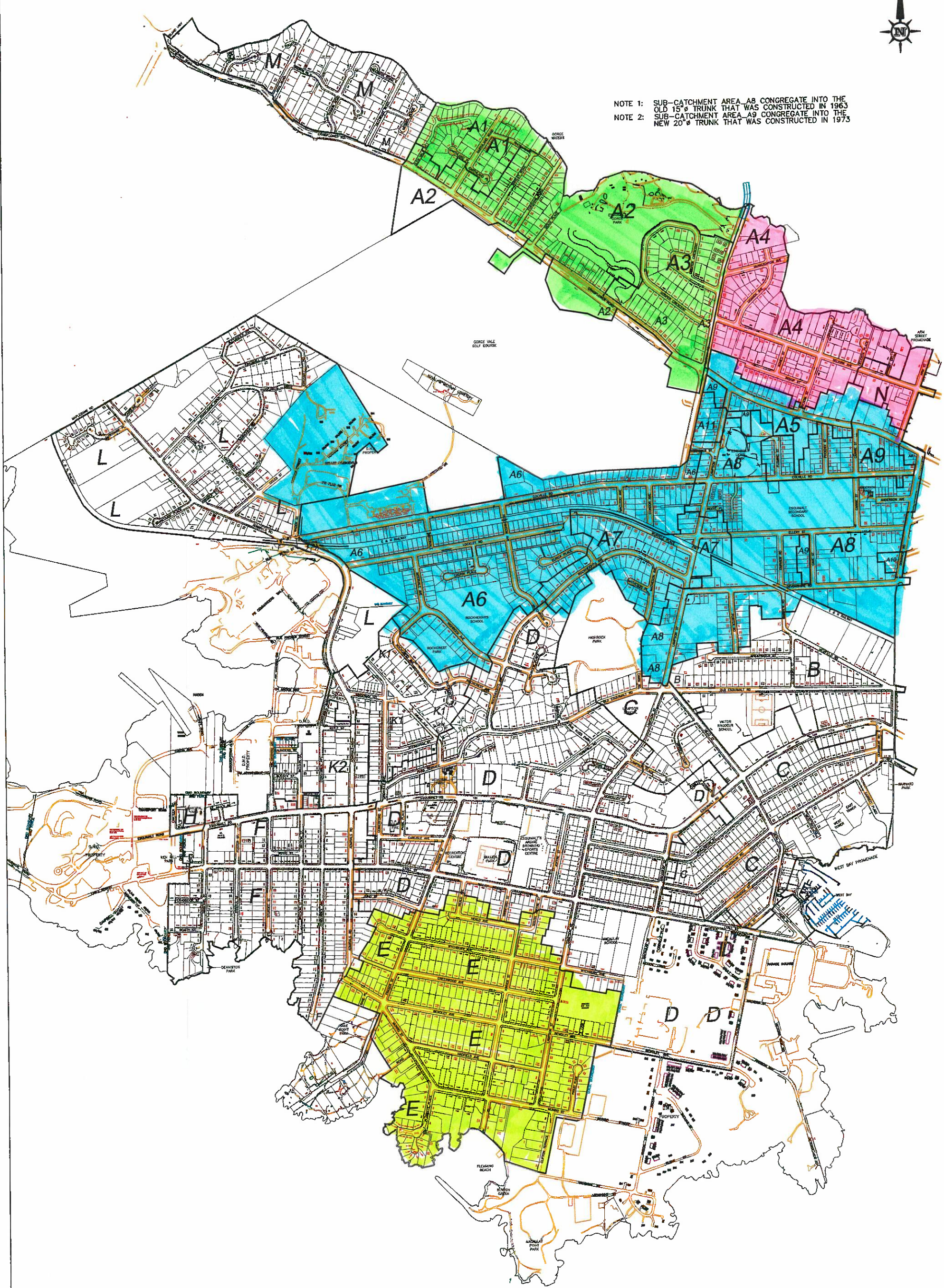
Rainwater that enters the sewer through cross connections (i.e. catch basin, roof drain)

- **Infiltration**

Trench water and groundwater that enters the sewer through cracks, leaky joints, etc.



Township of
ESQUIMALT



Note:
This information is obtained from various sources.
As a result, the Township of Esquimalt cannot warrant
that it is current, accurate or complete, and provides
it for your convenience only. Use of this information
without verification in the field is at your own risk.

This drawing is based on UTM coordinates, NAD 83 datum (CRD 2000)

CONFIRM UNDERGROUND LOCATIONS WITH UTILITY COMPANIES	LEGEND - Existing services shown solid										TOWNSHIP OF ESQUIMALT				
	CURB	SIDEWALK	S/W	TREE	ELECTRIC POLE	TEL POLE	SURVEY MONUMENT						DESIGN		
	DRAIN	DRAIN MANHOLE	⊗	CATCH BASIN	DRAIN CLEANOUT	DRAIN VENT	IRON PIN						DWG. NO.		
	GAS	GAS VALVE	⊗	GAS SHIFFER	GAS METER	STREET LIGHT	LEAD PLUG								
	SEWER	SEWER MANHOLE	⊗	SEWER LAMP/POLE	SEWER CLEANOUT	SEWER VENT	TRAVERSE HUB	CONTROL MONUMENTS			DESIGN	DRAWN	SURVEY	Sheet #	
	WATER	WATER VALVE	⊗	FIRE HYDRANT	WATER METER	SERVICE VALVE	P.K. NAIL	SCALES:			DATE				
	ELECTRICAL														

Inflow and Infiltration Reduction Program 2022 to 2030

Year	Activity	Public Cost (\$)	Private Cost (\$)	Total Cost (\$)
2022				
	CCTV Mainline	160,000		160,000
	Smoke testing and flow monitoring	50,000		50,000
	Year total	210,000	-	210,000
2023				
	CCTV of laterals and main line	30,000		30,000
	Carry out combined manhole/sewer abandonments	30,000		30,000
	Flow Monitoring	50,000		50,000
	Phase 1 - Colville target replacement program	1,000,000	200,000	1,200,000
	Year total	1,110,000	200,000	1,310,000
2024				
	CCTV of laterals and main line	30,000		30,000
	Flow Monitoring	50,000		50,000
	Phase 1 - Uganda Catchment target replacement program	1,200,000	230,000	1,430,000
	Year total	1,280,000	230,000	1,510,000
2025				
	CCTV of laterals and main line	30,000		30,000
	Flow Monitoring	50,000		50,000
	Phase 1 - Forshaw Catchment target replacement program	1,400,000	230,000	1,630,000
	Year total	1,480,000	230,000	1,710,000
2026				
	CCTV of laterals and main line	30,000		30,000
	Flow Monitoring	50,000		50,000
	Phase 1 - Kinver Catchment target replacement program	1,200,000	150,000	1,350,000
	Year total	1,280,000	150,000	1,430,000
2027				
	CCTV of laterals and main line	30,000		30,000
	Flow Monitoring	50,000		50,000
	Phase 2 - Devonshire Catchment target replacement program	1,200,000	150,000	1,350,000
	Year total	1,280,000	150,000	1,430,000
2028				
	CCTV of laterals and main line	30,000		30,000
	Flow Monitoring	50,000		50,000
	Phase 2 - Forshaw Catchment target replacement program	1,200,000	150,000	1,350,000
	Year total	1,280,000	150,000	1,430,000
2029				
	CCTV of laterals and main line	30,000		30,000
	Flow Monitoring	50,000		50,000
	Phase 2 - Uganda Catchment target replacement program	1,200,000	150,000	1,350,000
	Year total	1,280,000	150,000	1,430,000
2030				
	CCTV of laterals and main line	30,000		30,000
	Flow Monitoring	50,000		50,000
	Phase 2 - Kinver Catchment target replacement program	1,200,000	150,000	1,350,000
	Year total	1,280,000	150,000	1,430,000
Program totals (25% of private laterals require work)		10,480,000	1,128,000	11,608,000
Program totals (50% of private laterals require work)		10,480,000	1,410,000	11,890,000
Program totals (75% of private laterals require work)		10,480,000	1,762,500	12,242,500
Program totals (100% of private laterals require work)		10,480,000	2,115,000	12,595,000