

Dawson Creek
 PO box 810
 Dawson Creek, BC
 V1G 4H8

Fort St John
 9505 100th Street
 Fort St John, BC
 V1J 4N4

P:(250)784-3200
 E:prrd.dc@prrd.bc.ca

P:(250)785-8084
 E:prrd.fsj@prrd.bc.ca

For Office Use:
 Receipt # _____
 Date Received _____
 File No. _____
 Sign Issued: Yes No N/A

Application for Development

1. TYPE OF APPLICATION

- | | FEE |
|---|-----------------|
| <input type="checkbox"/> Official Community Plan Bylaw Amendment* | \$ 1,500.00 |
| <input type="checkbox"/> Zoning Bylaw Amendment* # | \$ 1,000.00 |
| <input type="checkbox"/> Official Community Plan / Zoning Bylaw Amendment combined* # | \$ 2,000.00 |
| <input type="checkbox"/> Temporary Use Permit* # | \$ 750.00 |
| <input type="checkbox"/> Temporary Use Permit Renewal | \$ 350.00 |
| <input checked="" type="checkbox"/> Development Permit # | \$ 250.00 |
| <input type="checkbox"/> Development Permit Amendment # | \$ 200.00 |
| <input type="checkbox"/> Development Variance Permit | \$ 500.00 |
| <input type="checkbox"/> Liquor Licence Referral Application | \$ 150.00 |
| * Sign is required for this application type. | |
| # Contaminated Site Declaration Form required for this application type. | |
|
<input type="checkbox"/> Exclusion from the Agricultural Land Reserve
(Applicant responsible for additional costs associated with the advertisements, signage, and facility rental, if applicable) |
\$ 1,500.00 |

2. PLEASE PRINT

Property Owner's Name City of Fort St. John attn: Jim Stewart (Capital projects Manager)	Authorized Agent of Owner (if applicable) Chad Carlstrom, P.Eng.
Address of Owner 10631 100 Street	Address of Agent 10808 100 Street
City/Town/Village: Fort St John	City/Town/Village: Fort St John
Postal Code: V1J 3Z5	Postal Code: V1J 3Z6
Telephone Number: [REDACTED]	Telephone Number: [REDACTED]
E-mail: [REDACTED]	E-mail: [REDACTED]

Notice of collection of personal information:

Personal information on this form is collected for the purpose of processing this application. The personal information is collected under the authority of the *Local Government Act* and the bylaws of the PRRD. Documentation/Information submitted in support of this application can be made available for public inspection pursuant to the *Freedom of Information and Protection of Privacy Act*.

3. PROPERTY DESCRIPTION

Please list the full Legal Description and PID of each property under application		
Legal Description	PID	Area of Each Lot
All property descriptions are attached in the development permit response document.		ha./acres
		ha./acres
		ha./acres
		TOTAL AREA ha./acres

4. CIVIC ADDRESS OR LOCATION OF PROPERTY: N/A

5. PARTICULARS OF PROPOSED AMENDMENT

Please check the box(es) that apply to your application type:

Official Community Plan (OCP) Bylaw amendment:
Proposed Land Use: _____

Zoning Bylaw amendment:
Proposed Land Use: _____

Development Variance Permit – describe proposed variance request:

Temporary Use Permit or Temporary Use Permit Renewal – describe proposed use:

Development Permit or Development Permit Amendment

Liquor Licence Referral Application

6. Describe the existing uses and buildings on the subject property:

The City of Fort St. John's sewage outfall from its wastewater treatment lagoons run through these properties. Furthermore, Old Fort Coulee Dike (Dike #64) is also existing on the affected parcels.

7. Describe your proposal. Attach a separate sheet if necessary:

Please refer to the attached development permit response document

8. Describe the landscaping being proposed on the property:

Please refer to the attached development permit response document

9. Reasons and comments in support of the application. Attach a separate sheet if necessary:

Please refer to the attached development permit response document

10. Describe the proposed and/or existing means of sewage disposal for the property:

Sewage disposal is not relevant to the scope of the proposed work.

11. Describe the proposed and/or existing means of water supply for the property:

Water supply is not relevant to the scope of the proposed work.

THE FOLLOWING INFORMATION IS REQUIRED FOR ALL APPLICATIONS:

14. Proof of ownership of the subject property or properties dated no more than thirty (30) days prior to the date of application. (For example: State of Title Certificate, BC Land Title Office Property Title Search, Corporate Registry Search, or recent Property Tax Notice.)

15. A Sketch Plan of the subject property or properties, showing the following:
 - (a) the legal boundaries and dimensions of the subject property;
 - (b) boundaries, dimensions, and area of any proposed lots (if subdivision is being proposed);
 - (c) the location and size of existing buildings and structures on the subject property, with distances to property lines;
 - (d) the location and size of any proposed buildings, structures, or additions thereto, with distances to property lines;
 - (e) the location of any existing sewage disposal systems;
 - (f) the location of any existing or proposed water source;
 - (g) the location and dimensions of all accesses and egresses to the property including driveways;
 - (h) any existing landscaping or vegetation;
 - (i) any existing landscaping or vegetation to be removed; and
 - (j) any new landscaping or vegetation proposed.

ADDITIONAL OR MORE DETAILED INFORMATION MAY BE REQUESTED BY THE PEACE RIVER REGIONAL DISTRICT FOLLOWING REVIEW OF YOUR APPLICATION.

If it is necessary for the property boundaries and the location of buildings and structures to be more accurately defined, a survey plan prepared by a British Columbia Land Surveyor may be required.

Security

Security may be required for the following application types as per the Development Approval Procedures Bylaw No. 2558, 2024:

- Temporary Use Permit; and
- Development Permit.

Public Notice Signs – Development Approval Procedures Bylaw No. 2558, 2024

- 8.2 A Public Notice sign shall be posted on the subject property for any parcel that is subject to an application for:
- a) Amendment to an Official Community Plan and/or Zoning Bylaw;
 - b) Temporary Use Permit; or
 - c) Exclusion from Agricultural Land Reserve, in compliance with the Agriculture Land Commission Act and Regulations.
- 8.3 Failure to post and keep the sign in accordance with this bylaw may result in a delay or postponement of the application.
- 8.4 Any additional notification costs incurred by the Regional District, as a result of the Applicant failing to post the required sign, shall be payable by the Applicant prior to advertising of the Public Hearing or delivery of public notifications.
- 8.5 All Public Notice signs must:
- a) Be placed to maximize its visibility to those travelling along the main highway by which the property is accessed;
 - b) Be erected on the property a minimum of fourteen (14) days prior to the Board considering the application, and the Applicant must submit to the Regional District a photograph clearly showing the sign posted on the property in accordance with this bylaw;
 - c) Be placed in a manner that does not interfere with pedestrian or vehicle traffic flow, or create a potential hazard by obstructing visibility from a highway;
 - d) Be installed in a safe, sturdy manner, capable of withstanding typical wind and other weather conditions;
 - e) Remain in place continuously until the application has been closed; and f) Applicants are encouraged to dispose of the signs by recycling them.



CONTAMINATED SITE DECLARATION FORM

I, James Stewart, City of Fort St. John, hereby acknowledge that the *Environmental Management Act*, 2003, as amended, is effective as of February 1, 2021.

Legal Description(s):

PID 012-191-051
010-551-191
003-648-494

Please check only one:

- I have read [Schedule 2](#) and based on my personal knowledge of the property in question, I do not believe that it is or has been used for any of the industrial or commercial purposes and activities specified in [Schedule 2](#) of the regulations. Accordingly, I elect not to complete and submit a 'site disclosure statement', as outlined in Section 40.(1) of the Act.
- I have read [Schedule 2](#) and one or more of the identified purposes or activities is or has occurred on the land(s) legally described above.
*Please contact staff to submit a "site disclosure statement" at planning@prrd.bc.ca

I further acknowledge that this declaration does not remove any liability, which may otherwise be applicable under the legislation.



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dd mm yyyy

For more information, please visit the ministry's Identification of Contaminated Sites webpage or e-mail SiteID@gov.bc.ca

DATE: February 13, 2026
TO: Peace River Regional District
FROM: Chad Carlstrom, P. Eng.
FILE: 1958.0472.22
SUBJECT: Old Fort Area – Development Permit Response

1.0 INTRODUCTION

The City of Fort St. John's (CFSJ) existing Old Fort Dike (Dike#64) is currently protected by a wire-meshed gabion wall. This armouring system is now failing, prompting the City to engage Urban Systems Ltd. (USL) to develop a design that will re-armour the dike and provide long-term protection against erosion. Enclosed in this permit package are the following documents:

- Land titles for affected parcels
- 2025-12-10-Geotechnical Design Memo for the Lower Bouffieux Coulee Erosion Mitigation
- 2026-02-12-Lower Bouffieux Coulee Dike Armouring Channel Plan and Profile Drawings
- 2023-06-07-City of Fort St John Environmental Management Plan Bouffieux Coulee Remediation

2.0 DEVELOPMENT PERMIT RESPONSES

The following sections address questions 3,7,8 and 9 in the development permit.

3. PROPERTY DESCRIPTION

Legal Description	PID	Area of Each Lot
LOT 1 SECTION 19 TOWNSHIP 83 RANGE 18 WEST OF THE 6TH MERIDIAN PEACE RIVER DISTRICT PLAN 19260	PID 010-551-191	10.48 ha 25.9 acres
LOT 7 BLOCK 4 SECTION 18 TOWNSHIP 83 RANGE 18 WEST OF THE 6TH MERIDIAN PEACE RIVER DISTRICT PLAN 14194	PID 012-191-051	0.31 ha 0.76 acres
NORTH ½ OF SECTION 17 TOWNSHIP 83 RANGE 18 WEST OF THE 6TH MERIDIAN PEACE RIVER DISTRICT, LYING NORTH OF THE PEACE RIVER, EXCEPT PLANS 19259 AND 31395	PID-003-648-494	25.69 ha 63.49 acres
	TOTAL AREA	36.48 ha 90.15 acres

7. DESCRIPTION OF PROPOSAL

The City of Fort St. John is proposing to remove and repair sections of failed bank armouring along the existing Old Fort Dike, as well as at the location where the City's sanitary outfall crosses Bouffieux Creek. Over time, the existing armouring has experienced progressive erosion and deterioration, made worse by several large flow events since the dike was originally constructed. As a result, these areas have become increasingly vulnerable and require remediation to maintain the integrity of the dike and protect adjacent infrastructure.

With this proposal, any areas on the existing embankment that have eroded will be reconstructed prior to the installation of a granular filter and rip rap armour. Any rip rap areas on the banks will be grouted using a fibre reinforced concrete mix, while any rip rap on the channel bed will be left ungrouted. The proposed reconstruction of the armouring will help to ensure the protection of the surrounding residential properties and developments from drainage overland flows and stormwater runoff from the city. The armouring will not affect the existing design of the dike.

8. DESCRIPTION OF PROPOSED LANDSCAPING

Trees and any vegetation will be cleared only as required to facilitate the installation of the rip rap armouring. Any areas cleared by the contractor will be hydroseeded with a specialized seed, fertilizer and engineered soil media mix. This mix is designed for accelerated growth in areas with depleted soil nutrients and is used for BC Hydro's Site C dam project.

9. REASONS AND COMMENTS IN SUPPORT OF THE APPLICATION

The project's primary intent is to protect the City of Fort St. John's sanitary sewer outfall infrastructure at two points along the Bouffieux Creek. The first is located at the existing dike that protects the Old Fort community. The second is at the point where the outfall crosses the creek. At these locations, the City had previously attempted to armour the banks and dike from erosion. These mitigation measures have since "failed," as assessed by Tetra Tech's Geohazard Assessment of Old Fort Area (2021) that was presented to the Peace River Regional District. In order to protect the dike, and by extension, the sanitary outfall from erosion and undercutting, the City of Fort St. John engaged with technical consultants in order to develop permanent bank protection measures that would replace the failed gabion walls. The project will also remove concrete and metal debris from the Coulee, clearing remnants of past failed bank-protection measures.

The project aligns with the intent and objectives of the Old Fort Development Permit Area. The proposed dike armouring will protect existing development from hazardous geotechnical conditions, consistent with findings from previous geohazard assessments. Rehabilitation of the armouring also supports the Strategic Goals of the PRRD Regional Growth Strategy Bylaw No. 2571. Specifically, Goal #4 emphasizes fostering safe, healthy communities that support a high quality of life for all residents, including enhanced regional emergency management. Armouring the dike with riprap will improve the structural resilience of the dike and protect critical sanitary infrastructure serving the City of Fort St. John.

3.0 CONCLUSION

The proposed work for the Lower Bouffieux Coulee is currently scheduled to occur between August 15, 2026, and October 15, 2026. We trust that the enclosed documents are adequate for your review. Should you have any further questions, please do not hesitate to reach out and we would be happy to discuss your concerns.

URBAN SYSTEMS LTD.



Community Consultant, Principal

/gdc/eb

"\\us1.urban-systems.com\projects\Projects_FSJ\1958\0472\22\C-Correspondence\C4-Government-Agencies-Utilities\2026-01-26-Old Fort Development Permit\2026-02-11-Old Fort Development Permit Responses.docx"

OLD FORT DEVELOPMENT PERMIT AREA GUIDELINES CHECKLIST

Guidelines

Comments

General Requirements

1. All development applications in the Old Fort Development Permit Area must be accompanied by a slope stability assessment and a geotechnical report prepared by a qualified professional which considers the Tetra Tech Report dated June 24, 2021.

2. The geotechnical report must be prepared by a professional geotechnical engineer who is qualified to practice in the field of geotechnical engineering. This report will assist the Regional District in determining the level of development that may safely be constructed and what conditions or requirements it will impose on the applicant. The geotechnical report shall:

a) Define the extent and character of all surface geological materials and the groundwater regime in the area proposed for development;

b) Define the type and extent of hazard zones within the area, including:

i. The potential for slope failure above, below, or within the development (based on expert judgement, which may use extrapolation of past performance on site and in the vicinity, modelling of various factors including current and future conditions on site, and/or other means deemed appropriate by the geotechnical engineer); and

ii. The location and characteristics of present and potential future soil collapse (e.g., collapse in the form of piping, caving, or sinkholes);

c) Indicate how storm water runoff and leakage from pipes related to the development will be controlled to avoid concentration of runoff or groundwater seepage and reduce potential for erosion, piping, and sinkhole activities;

d) Discuss the stability of soils and geology on which the proposed development will be sited and, if applicable, indicate any special measures needed to facilitate safe construction;

e) Provide a plan for the safe disposal of any unstable soils to ensure they are reconditioned such that they are no longer collapsible or are excavated such that they are not used in construction on or off site.

<p>3. Where a site-specific geotechnical report has been provided by a qualified professional indicating conditions under which the property can be safely developed, the report shall be registered in a Section 219 covenant on title to ensure safe use for all subsequent owners.</p>	
<p>4. Where a professional geotechnical engineer's report indicates that the land may be used safely subject to the conditions as set out in the report, the Regional District may consider and impose any of the engineer's conditions that are within the scope of the Local Government Act. Upon completion of the building or structure, the owner shall provide the Regional District with a statement certified by the professional engineer that the construction was carried out in compliance with the conditions specified in the Development Permit.</p>	
<p>Location of <u>Structures</u></p>	
<p>5. Whenever possible, place buildings and structures in areas with less than 15% slope.</p>	
<p>6. In order to protect against the loss of life and to minimize property damage associated with ground instability and/or slope failure, development in steep slope areas is discouraged.</p>	
<p>7. No excavation or filling shall be undertaken, nor any building or permanent structure erected, constructed or placed in areas subject to hazardous conditions. Further, buildings and structures shall be sited in accordance with the permit.</p>	

<p>8. Development should be sited in order to protect natural watercourses, riparian corridors and floodplains from erosion, channel migration and flooding.</p>	
<p>9. Development opportunities, constraints and conditions of design will be identified on the basis of a topographic and feature survey showing natural slope contours, spot elevations, swales, slope transitions, seasonal and permanent watercourses, drainage routes, vegetation, top of bank, and break lines.</p>	
<p>10. The underside of any floor system or the top of any pad supporting any space or room, including a manufactured home, that is used for dwelling purposes, business or the storage of goods that are susceptible to damage by flood water will be located above the flood levels as designated by the provincial government.</p>	
<p>Environmental Protection</p>	
<p>11. Existing vegetation shall be maintained to control erosion and protect slopes.</p>	
<p>12. Vegetative buffer separation is encouraged between development and natural, undeveloped areas.</p>	
<p>13. The pattern of development should be responsive to the varied topography and natural landscape. Changes to existing terrain should be kept to a minimum.</p>	
<p>14. Human-made storm drainage and retention ponds should have a natural appearance and be restored to the condition of natural environment. Drainage should be designed as natural environmental corridors wherever possible.</p>	

<p>15. Drainage flow rates offsite should be retained as close as possible to pre-development conditions and drainage retention and detention is encouraged.</p>	
<p>16. The protection of water quality should be ensured.</p>	
<p>17. Protect natural flora and fauna habitat, including nesting, denning and breeding sites.</p>	
<p>18. If proposed development or works may potentially affect the natural features of the area or effect fish and wildlife habitat or riparian areas, the applicant may be required to submit, at the applicant's expense, further documentation, technical studies, plans and recommendations with respect to the effects of the proposed development or works including any of the following:</p> <ul style="list-style-type: none">a) An environmental assessment report prepared by a registered professional biologist.b) An erosion and sediment control plan.c) A vegetation management plan.	

Appendix C: Lower Bouffieux Coulee Plan and Profile Drawings

Lower Bouffieux Coulee Dike Armouring

ISSUED FOR
REVIEW
FEBRUARY 12, 2026
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List of Drawings

Civil

- C01 Legend
- C02 Cadastral Information
- C03 Existing Conditions and Removals
- C04 Channel & Dike Armouring Plan & Profile
- C05 Details
- C06 Cross Sections
- C07 Cross Sections
- C08 Cross Sections
- C09 Channel Armouring Plan & Profile
- C10 Details





ATTENTION
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ADVISORY & WARNING
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SURVEY INFORMATION
Prepared by: Vector Geomatics Land Surveying Ltd.
Coordinate System: NAD83-10
Completion Date: 2023-08-08

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Professional Seals

#	Date	Issue / Revision	App
A	2026-02-12	Issued for Review	CC



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Quality Control by C. Carlstrom
Designed by W. Weber
Drawn by W. Weber

Lower Bouffieux Coulee Dike Armouring
Cadastral Information

Sheet Number	2 of 10
Project Number	Drawing Number
1958.0472.22	C02
Revision	A

REFERENCE PLAN OWNERSHIP	
LEGAL DESCRIPTION	OWNER
REFERENCE PLAN 29039	CITY OF FORT ST. JOHN

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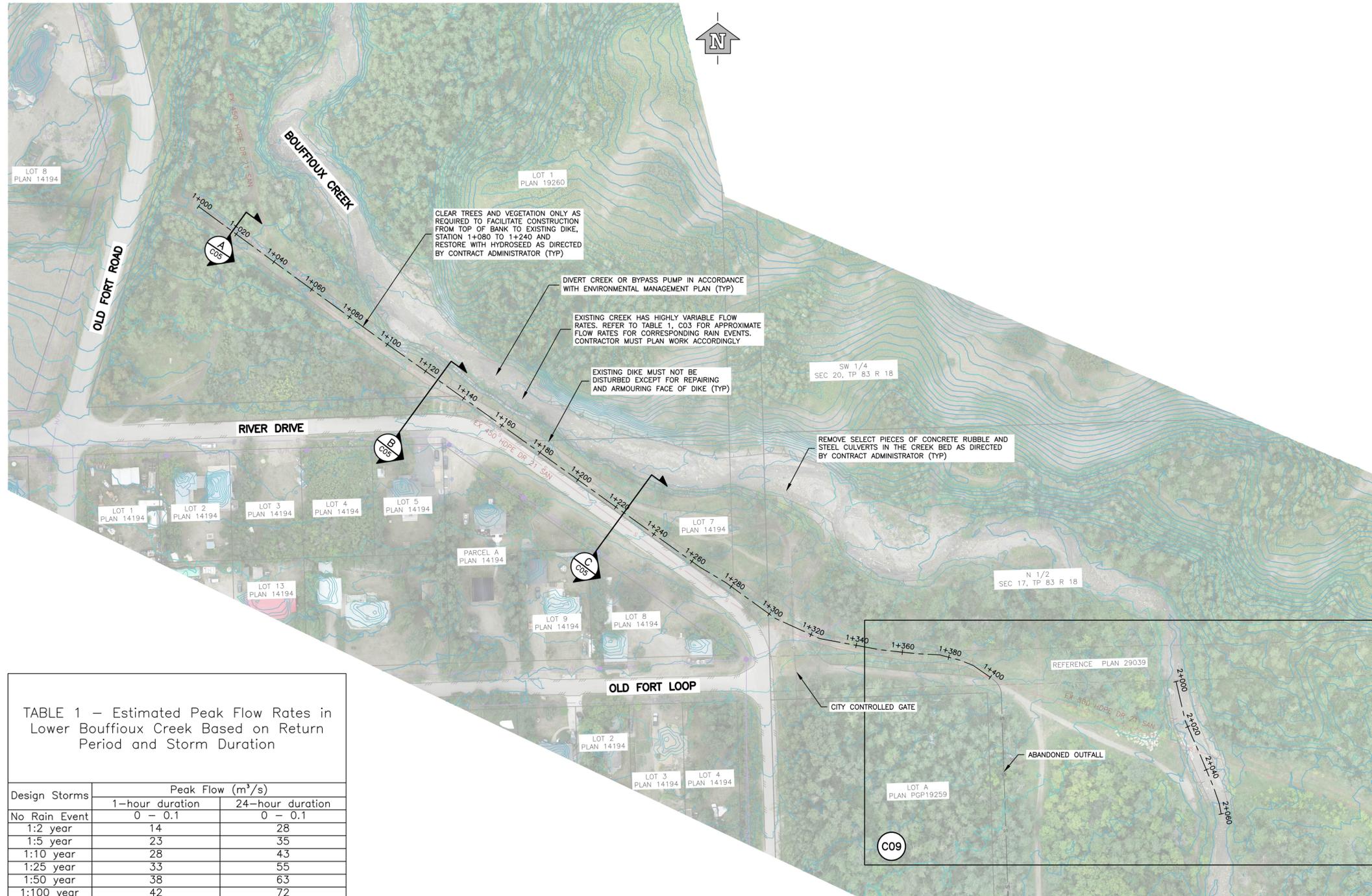


TABLE 1 – Estimated Peak Flow Rates in Lower Bouffoux Creek Based on Return Period and Storm Duration

Design Storms	Peak Flow (m ³ /s)	
	1-hour duration	24-hour duration
No Rain Event	0 – 0.1	0 – 0.1
1:2 year	14	28
1:5 year	23	35
1:10 year	28	43
1:25 year	33	55
1:50 year	38	63
1:100 year	42	72

NOTES:
 CONTRACTOR IS RESPONSIBLE TO SET UP AND MAINTAIN, SITE ISOLATION, SEDIMENT CONTROL, AND COORDINATION WITH ENVIRONMENTAL PROFESSIONALS FOR FISH SALVAGE IF REQUIRED.
 EQUIPMENT SHALL BE IN GOOD WORKING CONDITION WITH NO LEAKS.

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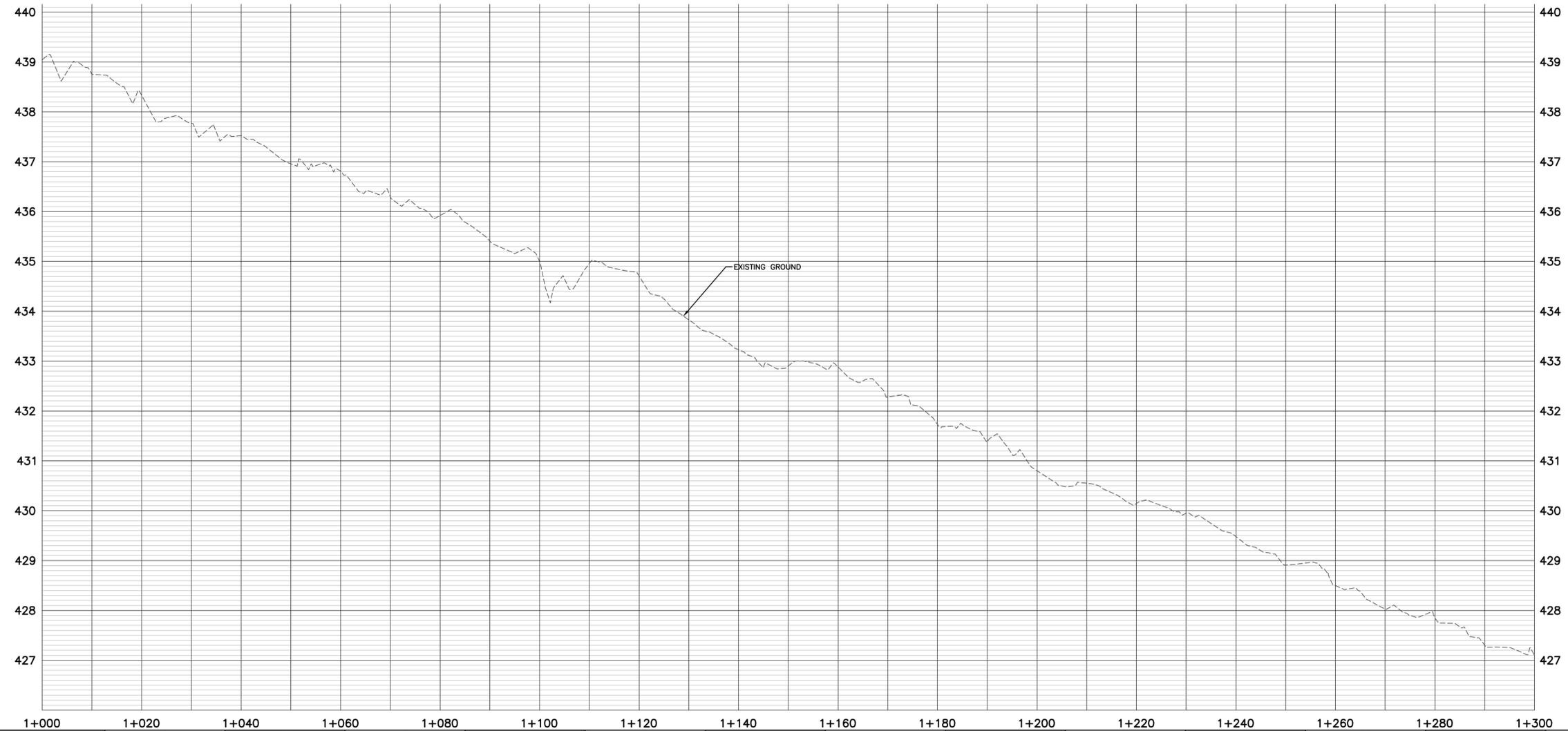
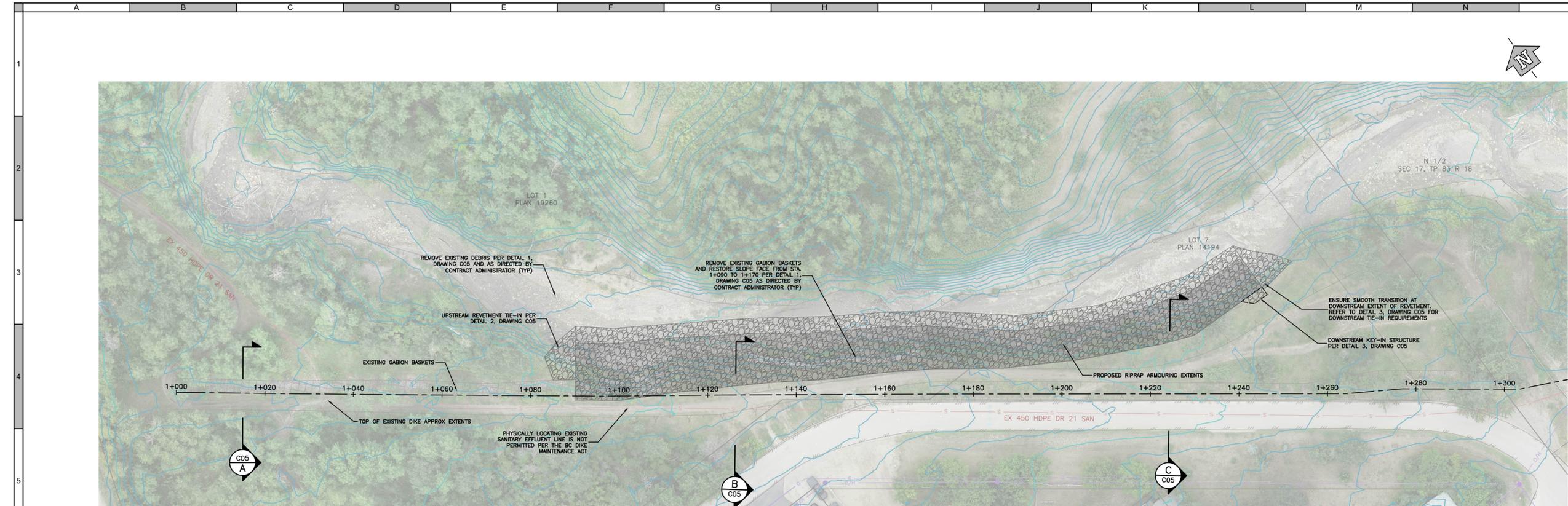
Quality Control by C. Carlstrom
 Designed by W. Weber
 Drawn by W. Weber

Lower Bouffoux Coulee Dike Armouring
 Existing Conditions and Removals

Sheet Number 3 of 10
 Project Number Drawing Number Revision
 1958.0472.22 C03 A

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A	2026-02-12	Issued for Review	CC



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 Designed by: W. Weber
 Drawn by: W. Weber

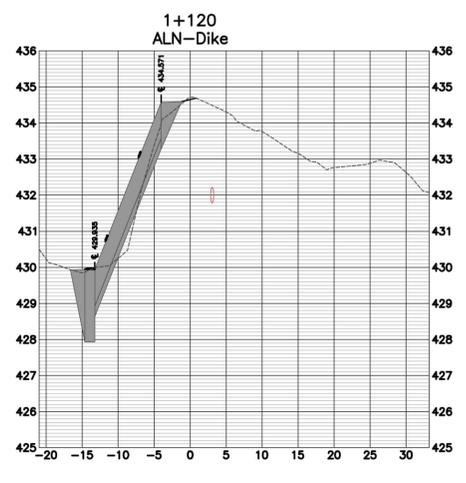
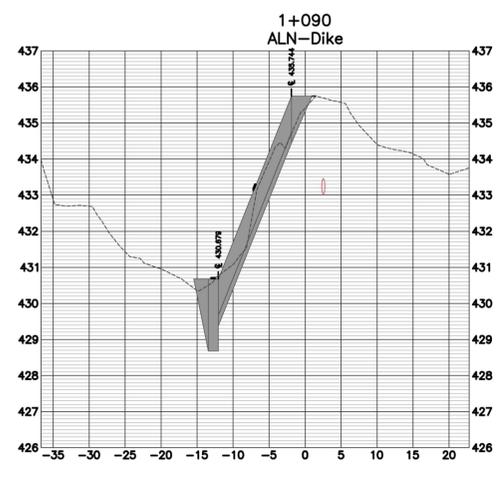
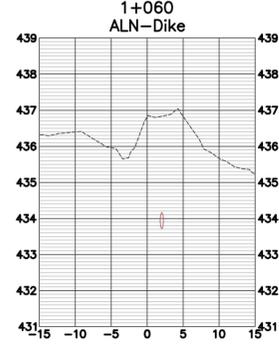
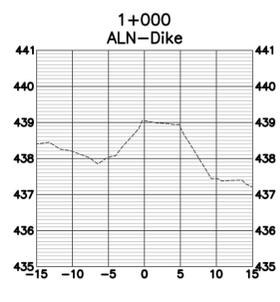
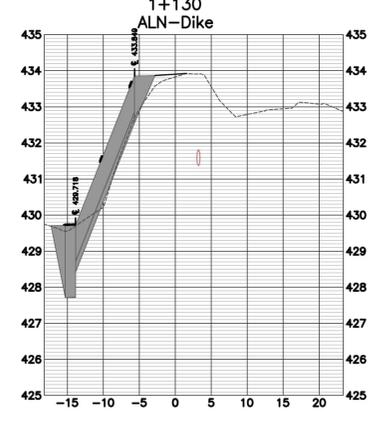
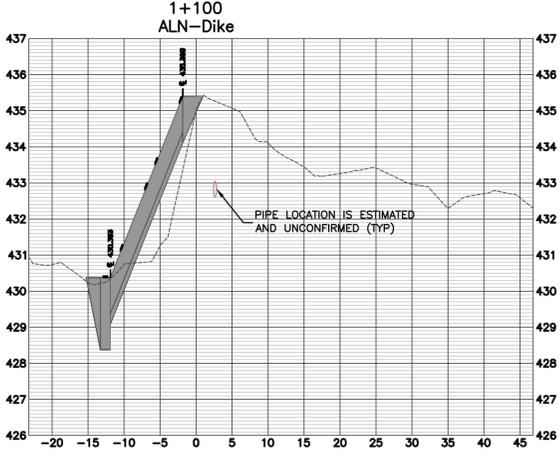
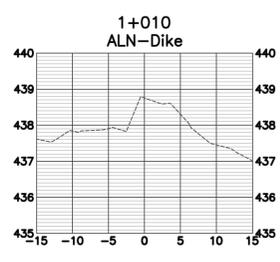
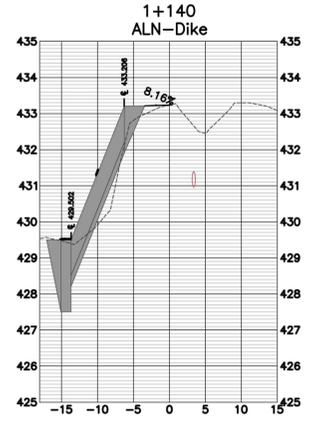
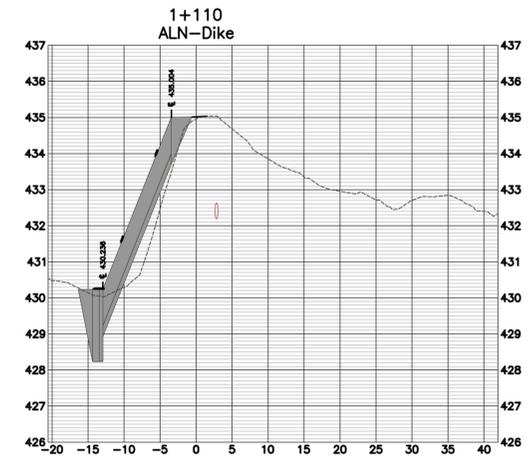
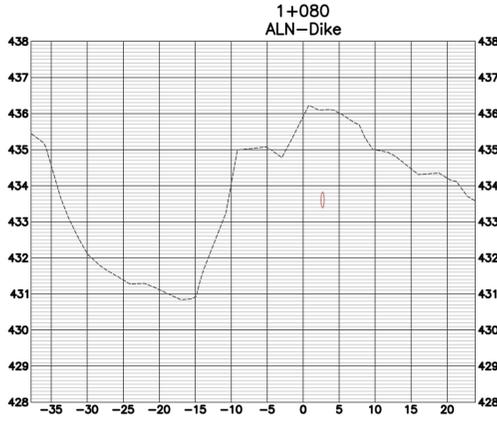
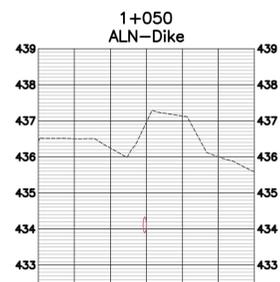
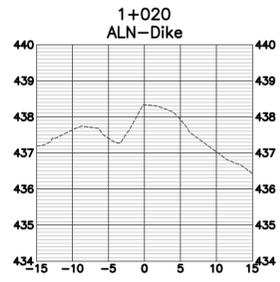
Lower Bouffieux Coulee Dike Armouring
 Channel & Dike Armouring Plan & Profile

Sheet Number: 4 of 10
 Project Number: 1958.0472.22
 Drawing Number: C04
 Revision: A

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NOTES:
 SECTIONS CONVEY APPROXIMATE GEOMETRY OF COMBINED FILTER LAYER AND RIPRAP.
 REFER TO TYPICAL DETAILS FOR ACTUAL CONSTRUCTION GEOMETRY.



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SURVEY INFORMATION
 Prepared by: Vector Geomatics Land Surveying Ltd.
 Coordinate System: NAD83-10
 Compilation Date: 2023-08-08

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 FEBRUARY 12, 2026
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A	2026-02-12	Issued for Review	CC



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Scale: 1:500H 0 10 20m
 1:100V 0 2 4m

Quality Control by: C. Carlstrom
 Designed by: W. Weber
 Drawn by: W. Weber

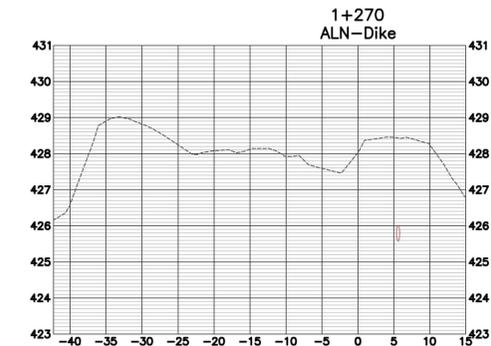
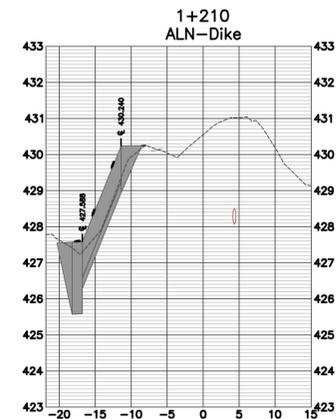
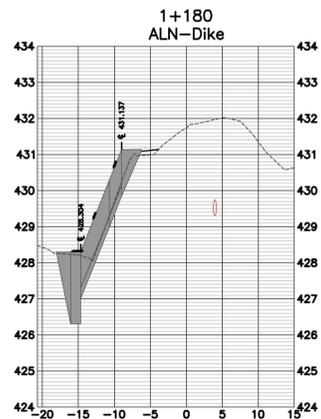
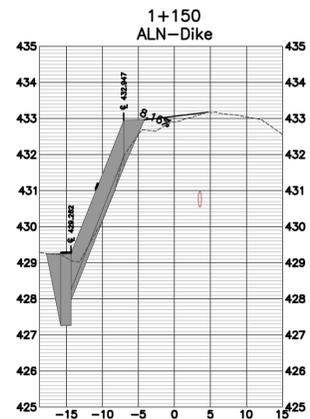
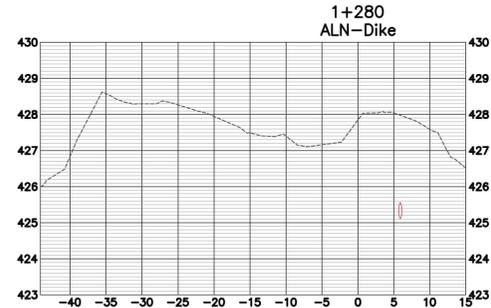
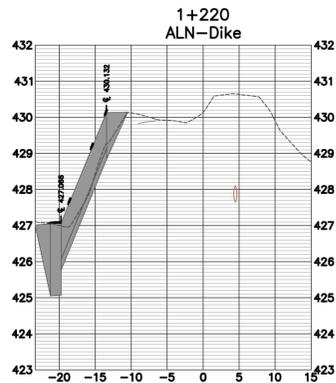
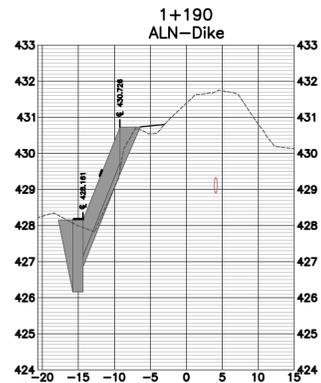
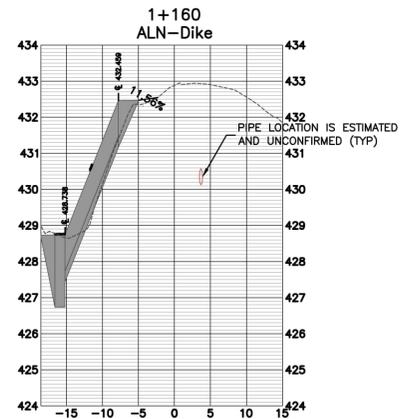
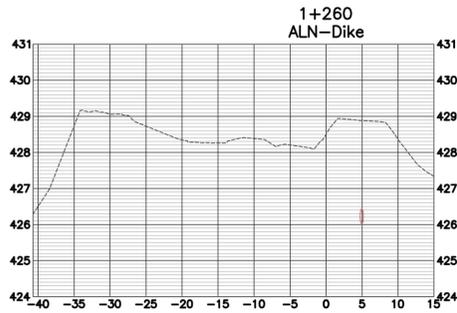
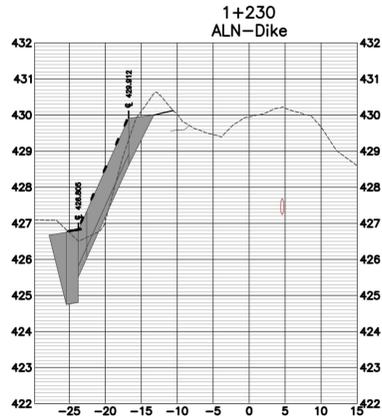
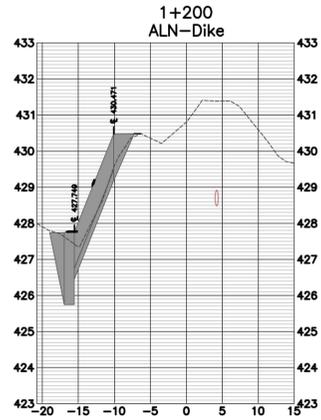
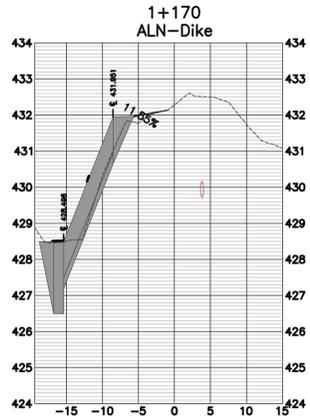
Lower Bouffieux Coulee Dike
 Armouring
 Cross Sections

Sheet Number: 6 of 10
 Project Number: 1958.0472.22
 Drawing Number: C06
 Revision: A

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NOTES:
 SECTIONS CONVEY APPROXIMATE GEOMETRY OF COMBINED FILTER LAYER AND RIPRAP.
 REFER TO TYPICAL DETAILS FOR ACTUAL CONSTRUCTION GEOMETRY.



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 Coordinate System: NAD83-10
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Scale: 1:500H 0 10 20m
 1:100V 0 2 4m

Quality Control by: C. Carlstrom
 Designed by: W. Weber
 Drawn by: W. Weber

Lower Bouffieux Coulee Dike
 Armouring
 Cross Sections

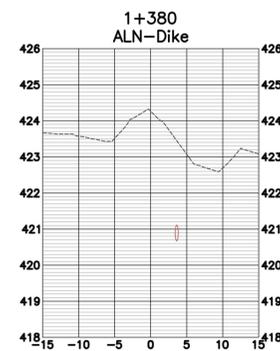
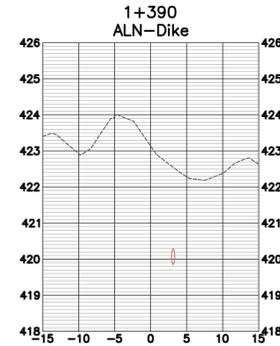
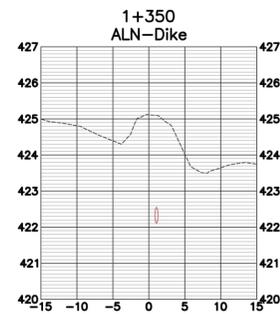
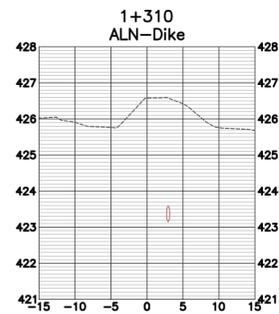
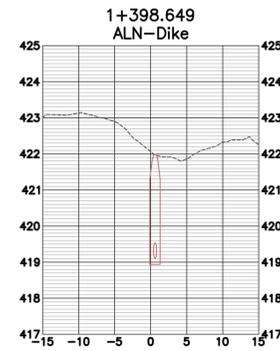
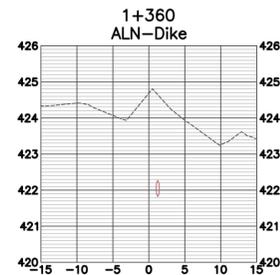
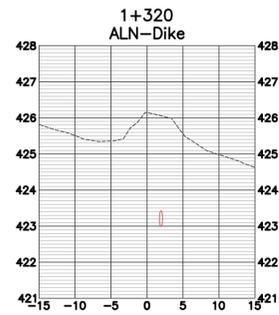
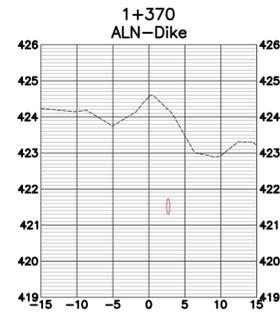
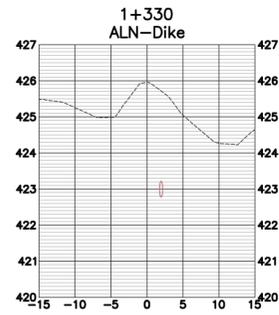
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 Project Number: 1958.0472.22
 Drawing Number: C07
 Revision: A

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NOTES:
SECTIONS CONVEY APPROXIMATE GEOMETRY OF COMBINED FILTER LAYER AND RIPRAP.
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Prepared by: Vector Geomatics Land Surveying Ltd.
Coordinate System: NAD83-10
Compilation Date: 2023-08-08

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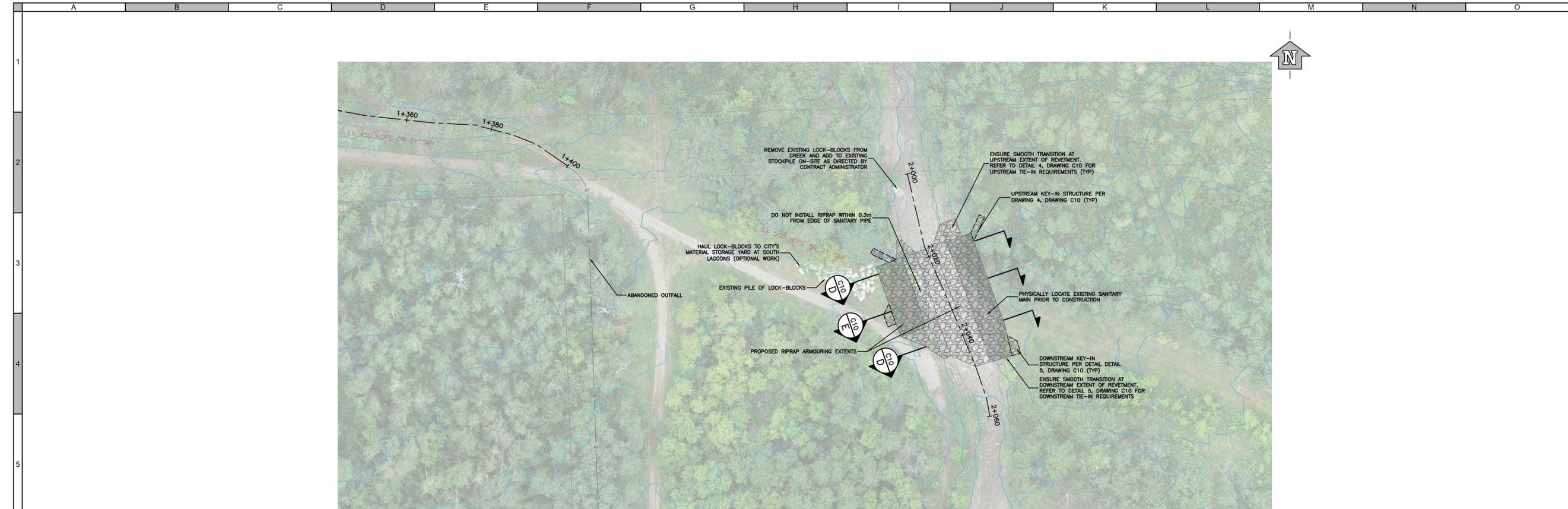
#	Date	Issue / Revision	App
A	2026-02-12	Issued for Review	CC



URBAN SYSTEMS
Scale 1:500H 0 10 20m
1:100V 0 2 4m
Quality Control by C. Carlstrom
Designed by W. Weber
Drawn by W. Weber

Lower Bouffieux Coulee Dike
Armouring
Cross Sections
Sheet Number 8 of 10
Project Number 1958.0472.22 Drawing Number C08 Revision A

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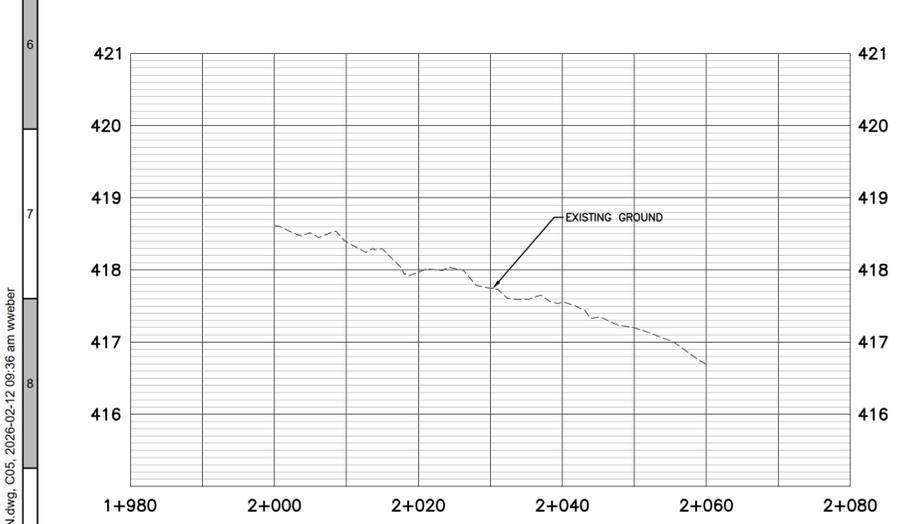
URBAN SYSTEMS

Scale 1:500H 0 10 20m
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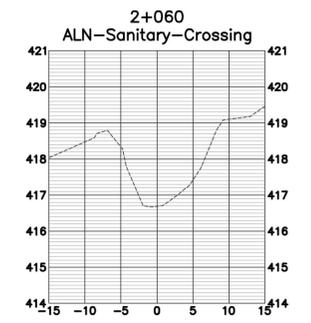
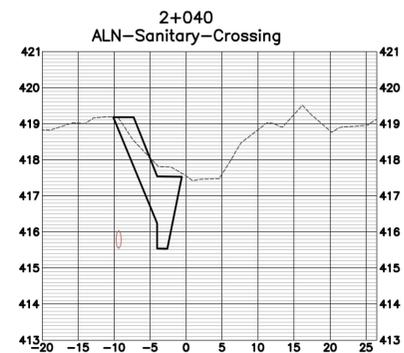
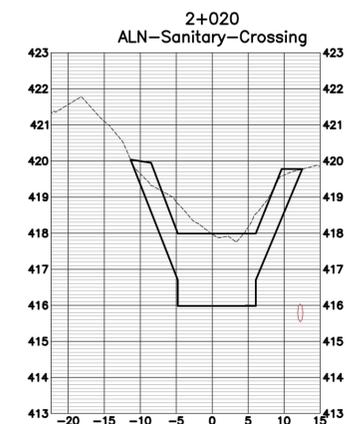
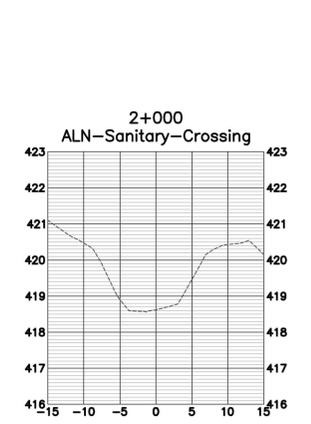
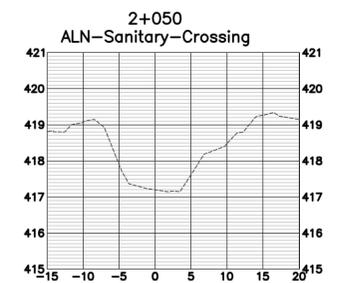
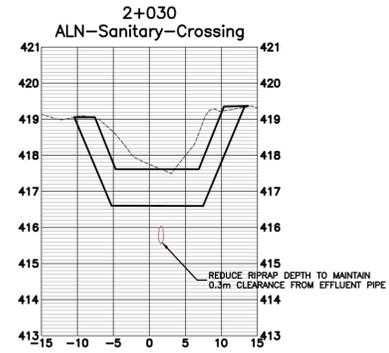
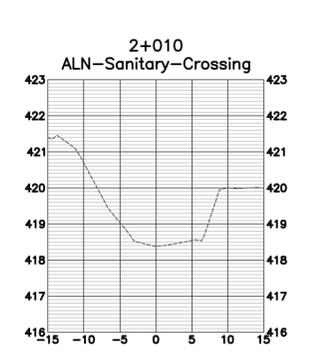
Quality Control by C. Carlstrom
 Designed by W. Weber
 Drawn by W. Weber

Lower Bouffieux Coulee Dike Armoring
 Channel Armouring Plan & Profile

Sheet Number 9 of 10
 Project Number 1958.0472.22 Drawing Number C09 Revision A



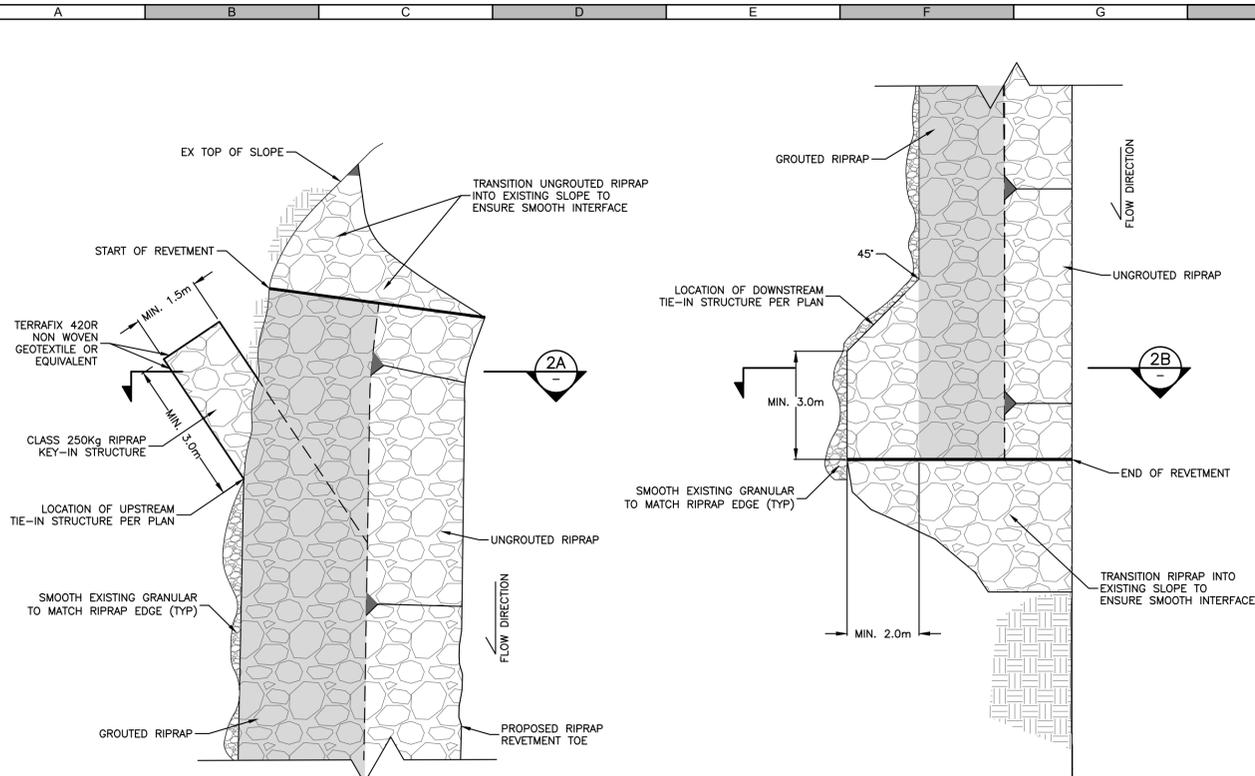
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 SECTIONS CONVEY APPROXIMATE GEOMETRY OF COMBINED FILTER LAYER AND RIPRAP.
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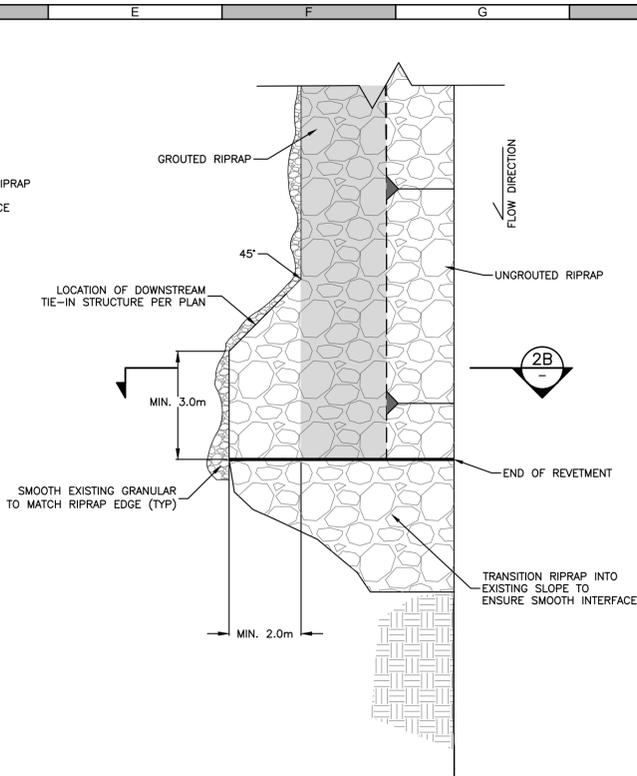
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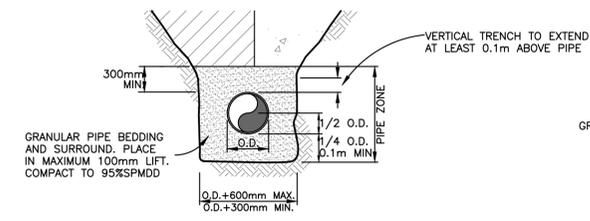
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NOT TO SCALE

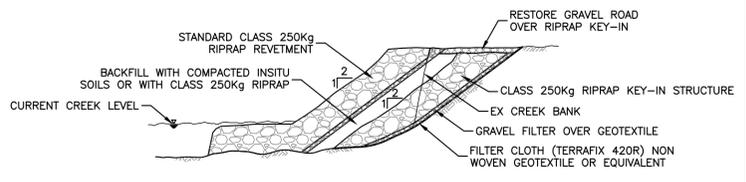


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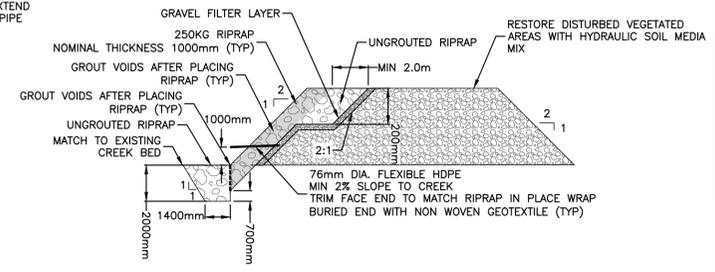


NOTES:
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2. TRENCHING TO COMPLY WITH ALL REQUIREMENTS OF WORKSAFE BC.

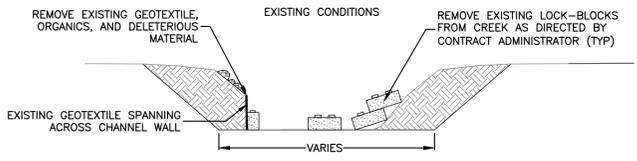
6 TYPICAL UTILITY BACKFILL
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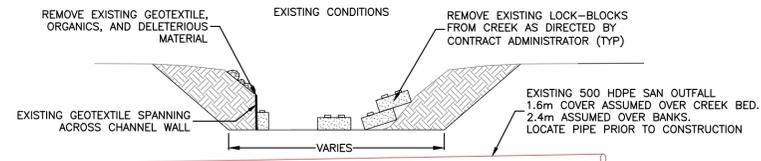
2A UPSTREAM KEY-IN STRUCTURE TYPICAL SECTION
NOT TO SCALE



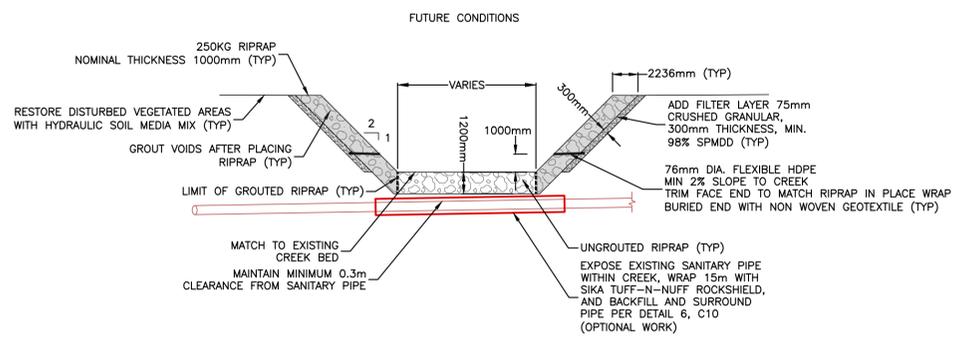
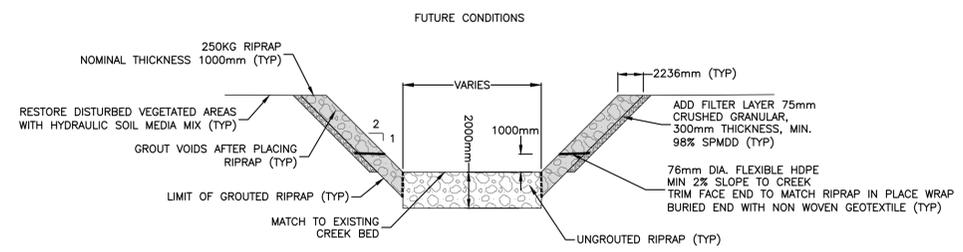
2B DOWNSTREAM KEY-IN STRUCTURE TYPICAL SECTION
NOT TO SCALE



D OUTFALL CROSSING CREEK TYPICAL CROSS SECTION EXISTING AND FUTURE CONDITIONS
NOT TO SCALE
STATION 2+021.101 TO 2+037.103



E OUTFALL CROSSING CREEK TYPICAL CROSS SECTION EXISTING AND FUTURE CONDITIONS
NOT TO SCALE
STATION 2+018.093 TO 2+021.101
STATION 2+037.103 TO 2+040.118



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URBAN SYSTEMS

Scale: NOT TO SCALE

Quality Control by: C. Carlstrom
Designed by: W. Weber
Drawn by: W. Weber

Lower Bouffieux Coulee Dike Armouring Details

Sheet Number: 10 of 10
Project Number: 1958.0472.22
Drawing Number: C10
Revision: A

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