1. June 12, 2023 - Council Agenda And Correspondence

Documents:

2023 06 21 REGULAR COUNCIL AGENDA.PDF 2023 06 12 INFORMATIONAL CORRESPONDENCE.PDF

1.I. June 12, 2023 - Council Agenda Updated (Page 66A)

Documents:

2023 06 21 REGULAR COUNCIL AGENDA UPDATED.PDF

1.II. DRAFT Bylaw 4293 - Subdivision And Development Servicing Bylaw

Documents:

Documents:

BYLAW 4293 - COMPLETE (DRAFT) WEBSITE.PDF

1.II.i. June 12, 2023 - Late Item 9.8 - Appointment Of A Bylaw Officer

2023 06 12 LATE ITEM 9.8 - APPOINTMENT OF A BYLAW OFFICER.PDF

AGENDA

SALMONARM SMALL CITY, BIG IDEAS City of Salmon Arm Regular Council Meeting

Monday, June 12, 2023 1:30 p.m.

[Public Session Begins at 2:30 p.m.] Council Chambers of City Hall 500 – 2 Avenue NE Salmon Arm, BC

Electronic Meeting Link: https://meet.goto.com/931301501
Phone Access: Canada: +1(647) 497-9373 / Access Code: 931-301-501

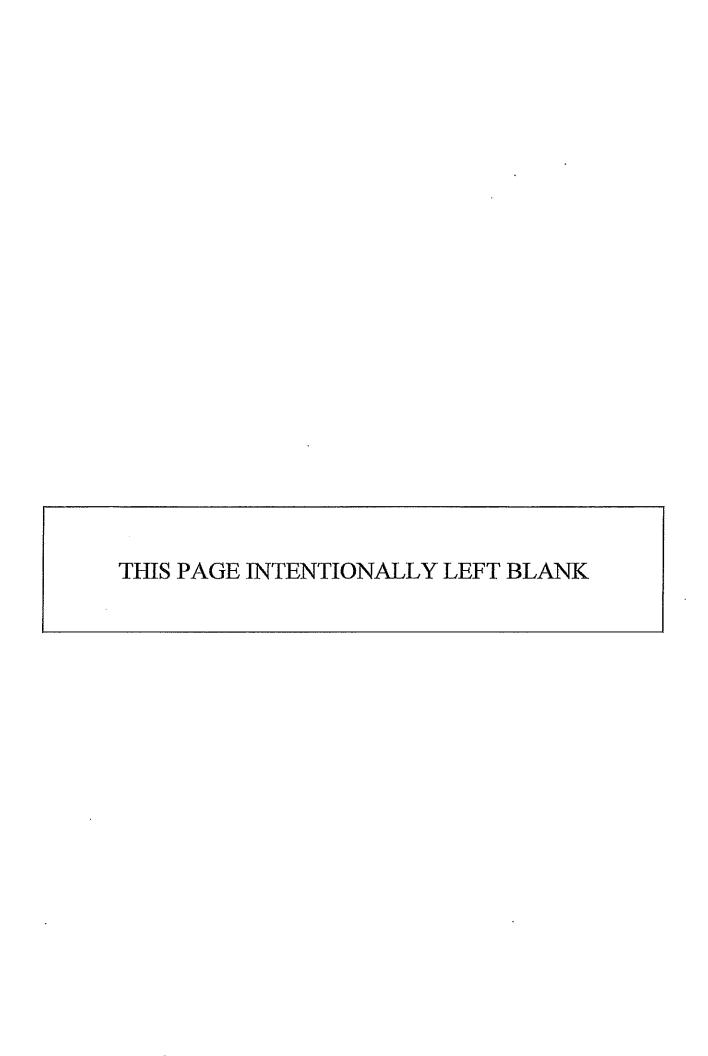
Page #	Item #	Description		
1.		CALL TO ORDER		
1 - 2 2.		IN-CAMERA SESSION		
	3.	ACKNOWLEDGEMENT OF TRADITIONAL TERRITORY We acknowledge that we are gathering here on the traditional territory of the Secwepemc people, with whom we share these lands and where we live and work together.		
	4.	ADOPTION OF AGENDA		
	5.	DISCLOSURE OF INTEREST		
	6.	CONFIRMATION OF MINUTES		
3 - 12	1.	Regular Council Meeting Minutes of May 23, 2023		
13 – 16	2.	Special Council Meeting Minutes of June 1, 2023		
	7.	COMMITTEE REPORTS		
17 – 24	1.	Development and Planning Services Committee Meeting Minutes of June 5, 2023		
	8.	COLUMBIA SHUSWAP REGIONAL DISTRICT UPDATE		
25 – 30	1.	CSRD Connect - May 2023		
	9.	STAFF REPORTS		
31 – 34	1.	Manager of Permits & Licensing – Licensing of Special Events on City Property - 2023		
35 - 38	2.	Director of Planning & Community Services - UBCM Complete Communities Grant Program		

57 - 60 4. Director of Engineering & Public Works - Annual Transit Operating Agreement 61 - 64 5. Director of Engineering & Public Works - Supply of Bulk Aviation Fuels and Related Delivery Services 65 - 68 6. Director of Engineering & Public Works - Zone 2 Pump Station Design - Budget Amendment 69 - 70 7. Chief Administrative Officer - Environmental Advisory Committee - Citizen at Large Membership Appointment 10. INTRODUCTION OF BYLAWS 71 - 88 1. City of Salmon Arm Zoning Amendment Bylaw No. 4579 [ZON-1264; Brentwell Construction Ltd./Crevier, L. & S.; 31 4 Street SE; Text Amendment; Addition to Definitions and to R-5 (High Density Residential Zone)] - First and Second Reading 89 - 104 2. City of Salmon Arm Zoning Amendment Bylaw No. 4590 [ZON-1269; City of Salmon Arm Zoning Amendment; Accessible Parking Regulations] - First and Second Reading 105 - 108 3. City of Salmon Arm Fee for Service Amendment Bylaw No. 4592 [Parking Violations] - First, Second and Third Reading 109 - 112 4. City of Salmon Arm Subdivision and Development Servicing Bylaw No. 4293 - First and Second Reading 11. RECONSIDERATION OF BYLAWS 12. CORRESPONDENCE 13 - 114 1 Informational Correspondence 13. NEW BUSINESS 14. PRESENTATIONS 115 - 124 1 Presentation 4:00 - 4:15 (approximately) M. Matheson, Team Leader, 2022 Shuswap Tourism Annual Review Presentation 4:15 - 4:30 (approximately) Isha Matous-Gibbs, Urban Matters - Poverty Reduction Grant 15. COUNCIL STATEMENTS 16. SALMON ARM SECONDARY YOUTH COUNCIL	39 - 56	3.	Director of Planning & Community Services - Official Community Plan Bylaw No. 4000 Review
61 - 64 5. Director of Engineering & Public Works - Supply of Bulk Aviation Fuels and Related Delivery Services 65 - 68 6. Director of Engineering & Public Works - Zone 2 Pump Station Design - Budget Amendment 69 - 70 7. Chief Administrative Officer - Environmental Advisory Committee - Citizen at Large Membership Appointment 10. INTRODUCTION OF BYLAWS 1. City of Salmon Arm Zoning Amendment Bylaw No. 4579 [ZON-1264; Brentwell Construction Ltd./Crevier, L. & S.; 31 4 Street SE; Text Amendment; Addition to Definitions and to R-5 (High Density Residential Zone)] - First and Second Reading 89 - 104 2. City of Salmon Arm Zoning Amendment Bylaw No. 4590 [ZON-1269; City of Salmon Arm Zoning Amendment; Accessible Parking Regulations] - First and Second Reading 105 - 108 3. City of Salmon Arm See for Service Amendment Bylaw No. 4592 [Parking Violations] - First, Second and Third Reading 109 - 112 4. City of Salmon Arm Subdivision and Development Servicing Bylaw No. 4293 - First and Second Reading 11. RECONSIDERATION OF BYLAWS 12. CORRESPONDENCE 13. NEW BUSINESS 14. PRESENTATIONS 15 - 124 1. PRESENTATIONS 15 - 125 - 160 2. Presentation 4:00 - 4:15 (approximately) M. Matheson, Team Leader, 2022 Shuswap Tourism Annual Review Presentation 4:15 - 4:30 (approximately) Isha Matous-Gibbs, Urban Matters - Poverty Reduction Grant 15. COUNCIL STATEMENTS 16. SALMON ARM SECONDARY YOUTH COUNCIL	57 – 60	4.	Director of Engineering & Public Works - Annual Transit Operating
65 - 68 6. Director of Engineering & Public Works - Zone 2 Pump Station Design - Budget Amendment 69 - 70 7. Chief Administrative Officer - Environmental Advisory Committee - Citizen at Large Membership Appointment 10. INTRODUCTION OF BYLAWS 71 - 88 1. City of Salmon Arm Zoning Amendment Bylaw No. 4579 [ZON-1264; Brentwell Construction Ltd./Crevier, L. & S.; 31 4 Street SE; Text Amendment; Addition to Definitions and to R-5 (High Density Residential Zone)] - First and Second Reading 89 - 104 2. City of Salmon Arm Zoning Amendment Bylaw No. 4590 [ZON-1269; City of Salmon Arm Zoning Amendment; Accessible Parking Regulations] - First and Second Reading 105 - 108 3. City of Salmon Arm Fee for Service Amendment Bylaw No. 4592 [Parking Violations] - First, Second and Third Reading 109 - 112 4. City of Salmon Arm Subdivision and Development Servicing Bylaw No. 4293 - First and Second Reading 11. RECONSIDERATION OF BYLAWS 12. CORRESPONDENCE 113 - 114 1. Informational Correspondence 13. NEW BUSINESS 14. PRESENTATIONS 115 - 124 1. PRESENTATIONS 115 - 124 1. PRESENTATIONS 125 - 160 2. Presentation 4:00 - 4:15 (approximately) M. Matheson, Team Leader, 2022 Shuswap Tourism Annual Review 125 - 160 2. Presentation 4:15 - 4:30 (approximately) Isha Matous-Gibbs, Urban Matters - Poverty Reduction Grant 15. COUNCIL STATEMENTS 16. SALMON ARM SECONDARY YOUTH COUNCIL	61 – 64	5.	Director of Engineering & Public Works - Supply of Bulk Aviation
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17. NOTICE OF MOTION	115 - 124	12. 1. 13. 14. 1. 2.	RECONSIDERATION OF BYLAWS CORRESPONDENCE Informational Correspondence NEW BUSINESS PRESENTATIONS Presentation 4:00 – 4:15 (approximately) M. Matheson, Team Leader, 2022 Shuswap Tourism Annual Review Presentation 4:15 – 4:30 (approximately) Isha Matous-Gibbs, Urban Matters – Poverty Reduction Grant COUNCIL STATEMENTS
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18. UNFINISHED BUSINESS AND DEFERRED/TABLED ITEMS	115 - 124	12. 1. 13. 14. 1. 2.	RECONSIDERATION OF BYLAWS CORRESPONDENCE Informational Correspondence NEW BUSINESS PRESENTATIONS Presentation 4:00 – 4:15 (approximately) M. Matheson, Team Leader, 2022 Shuswap Tourism Annual Review Presentation 4:15 – 4:30 (approximately) Isha Matous-Gibbs, Urban Matters – Poverty Reduction Grant COUNCIL STATEMENTS
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19. OTHER BUSINESS 161 - 168 1. Salmon Arm Folk Music Society - Request for Construction Approval 20. QUESTION AND ANSWER PERIOD

7:00 p.m.

Page #	Item #	Description	
	21.	DISCLOSURE OF INTEREST	
	22.	HEARINGS	
169 – 184	1.	Development Variance Permit Application No. VP-581 [Vandermeer, R. & M.; 2900 40 Street NE; Servicing requirements]	
185 – 202	2.	Development Variance Permit Application No. VP-567 [McLeod, T./Launch Construction Ltd.; 3390 30 Street NE; Servicing requirements]	
203 - 218	3.	Development Variance Permit Application No. VP-574 [0695662 BC Ltd./Massier, G.; 1631 10 Street SE and 1561, 1581, 1621, 1641, 1661 and 1681 9 Street SE; Servicing and Retaining Wall requirements]	
	23.	STATUTORY PUBLIC HEARINGS	
219 – 226	1.	Zoning Amendment Application No. ZON-1265 [EWDS Holdings Ltd.; 2760 Auto Road SE; R-1 to R-8]	
227 - 230	24. 1.	RECONSIDERATION OF BYLAWS City of Salmon Arm Zoning Amendment Bylaw No. 4580 [ZON-1265; EWDS Holdings Ltd.; 2760 Auto Road SE; R-1 to R-8] – Third and Final Reading	
	25.	QUESTION AND ANSWER PERIOD	
231 - 232	26.	ADJOURNMENT	



Item 2

CITY OF SALMON ARM

Date: June 12, 2023

Moved: Councillor Lindgren

Seconded: Councillor Wallace Richmond

THAT: pursuant to Section 90(1)(a) personal information about an identifiable individual who holds or is being considered for a position as an officer, employee or agent of the municipality or another position appointed by the municipality; (c) labour relations or other employee relations; (d) the security of the property of the municipality; (g) litigation or potential litigation affecting the municipality (2 items); (2)(b) the consideration of information received and held in confidence relating to negotiations between the municipality and a provincial government or the federal government or both, or between a provincial government or the federal government or both and a third party; of the Community Charter, Council move In-Camera.

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Item 6.1

CITY OF SALMON ARM

<u>Date: June 12, 2023</u>

Moved: Councillor Lavery

Seconded: Councillor Cannon

THAT: the Regular Council Meeting Minutes of May 23, 2023, be adopted as circulated.

REGULAR COUNCIL

Minutes of a Regular Meeting of Council of the City of Salmon Arm held in the Council Chambers of City Hall 500 – 2 Avenue NE and by electronic means, at 1:00 p.m. and reconvened at 2:30 p.m. on Tuesday, May 23, 2023.

PRESENT:

Mayor A. Harrison

Councillor K. Flynn

Councillor T. Lavery (participated remotely)

Councillor L. Wallace Richmond (participated remotely)

Councillor D. Gonella (participated remotely)

Councillor D. Cannon

Councillor S. Lindgren (participated remotely)

Chief Administration Officer E. Jackson

Director of Corporate Services S. Wood

Director of Engineering & Public Works R. Niewenhuizen

Director of Planning & Community Services G. Buxton

Chief Financial Officer C. Van de Cappelle

Fire Chief B. Shirley

Deputy Corporate Officer R. West

ABSENT:

1. CALL TO ORDER

Mayor Harrison called the meeting to order at 1:00 p.m.

2. IN-CAMERA SESSION

0250-2023

Moved: Councillor Flynn

Seconded: Councillor Cannon

THAT: pursuant to Section 90(1)(c) labour relations or other employee relations; (d) the security of the property of the municipality; and (e) the acquisition, disposition or expropriation of land or improvements, if the council considers that disclosure could reasonably be expected to harm the interests of the municipality; of the

Community Charter, Council move In-Camera.

CARRIED UNANIMOUSLY

Council moved In-Camera at 1:00 p.m. Council returned to Regular Session at 2:22 p.m. Council recessed until 2:30 p.m.

3. ACKNOWLEDGEMENT OF TRADITIONAL TERRITORY

Mayor Harrison read the following statement: "We acknowledge that we are gathering here on the traditional territory of the Secwepemc people, with whom we share these lands and where we live and work together."

4. REVIEW OF AGENDA

5. <u>DISCLOSURE OF INTEREST</u>

Councillor Flynn declared a conflict with Items 9.5 and 12.1.5 as the applicants are clients of his firm.

6. CONFIRMATION OF MINUTES

1. Regular Council Meeting Minutes of May 8, 2023

0251-2023

Moved: Councillor Wallace Richmond

Seconded: Councillor Lindgren

THAT: the Regular Council Meeting Minutes of May 8, 2023, be adopted as

circulated.

CARRIED UNANIMOUSLY

7. COMMITTEE REPORTS

1. Development and Planning Services Committee Meeting Minutes of May 15, 2023

0252-2023

Moved: Councillor Gonella Seconded: Councillor Lavery

THAT: the Development and Planning Services Committee Meeting Minutes of

May 15, 2023 be received as information.

CARRIED UNANIMOUSLY

2. <u>Downtown Parking Commission Meeting Minutes of May 16, 2023</u>

0253-2023

Moved: Councillor Lavery Seconded: Councillor Cannon

THAT: the Downtown Parking Commission Meeting Minutes of May 16, 2023 be

received as information.

CARRIED UNANIMOUSLY

8. COLUMBIA SHUSWAP REGIONAL DISTRICT UPDATE

9. STAFF REPORTS

1. Fire Chief - Self Contained Breathing Apparatus Purchase

0254-2023

Moved: Councillor Lavery Seconded: Councillor Lindgren

THAT: Council accept the quote from Rocky Mountain Phoenix in the amount of \$329,765.00 plus taxes for the purchase of new MSA brand Self Contained

Breathing Apparatus (SCBA).

CARRIED UNANIMOUSLY

9. STAFF REPORTS - continued

2. <u>Manager of Permits & Licensing - Lakeside Bowling Ltd. (Permanent Patio) - 1881 9</u> Avenue NE

0255-2023

Moved: Councillor Cannon Seconded: Councillor Flynn

THAT: Council of the City of Salmon Arm has no objection to the creation of a permanent licensed patio at 1881 – 9th Avenue NE for the Tandoor Bar and Grill;

AND THAT: Council of the City of Salmon Arm is opting out of the comment and public consultation process.

CARRIED UNANIMOUSLY

3. <u>Director of Engineering & Public Works - Zone 5 Booster Station - Centrix Control Solutions Contract Award</u>

0256-2023

Moved: Councillor Wallace Richmond

Seconded: Councillor Gonella

THAT: the City's Purchasing Policy No. 7.13 be waived in the procurement of consulting services related to programming and commissioning services for the Zone 5 Booster station project to authorize sole sourcing of same to Centrix Control Solutions;

AND THAT: Council approve the award of consulting services to Centrix Control Solutions for the total quoted price of \$11,900.00 plus taxes as applicable for the Zone 5 Booster station.

CARRIED UNANIMOUSLY

4. <u>Director of Engineering & Public Works - RCMP Guard Room Counter Improvements - Budget Reallocation</u>

0257-2023

Moved: Councillor Flynn Seconded: Councillor Cannon

THAT: the 2023 Budget contained in the 2023-2027 Financial Plan Bylaw be amended to reflect additional funding in the amount of \$20,000.00, which includes the additional funds and contingency for project construction costs, reallocated from RCMP Building Major Maintenance Reserve.

CARRIED UNANIMOUSLY

Councillor Flynn declared a conflict and left the meeting at 2:50 p.m.

5. <u>Director of Engineering & Public Works – 30th Street SE Watermain Upgrade – Contract Award</u>

0258-2023

Moved: Councillor Lindgren Seconded: Councillor Gonella

THAT: Council approve the award of consulting services to Lawson Engineering Ltd. for the total quoted price of \$17,455.00 plus taxes as applicable for the 30th Street SE (20 Avenue SE) Watermain upgrade design and tendering services;

9. STAFF REPORTS - continued

5. <u>Director of Engineering & Public Works - 30th Street SE Watermain Upgrade - Contract</u>
Award

AND THAT: the City's Purchasing Policy No. 7.13 be waived in the procurement of consulting services related to the 30th Street SE (20 Avenue SE) Watermain upgrade project to authorize sole sourcing of same to Lawson Engineering Ltd.

CARRIED UNANIMOUSLY

Councillor Flynn returned to the meeting at 2:54 p.m.

6. <u>Director of Engineering & Public Works – Elks Park – Baseball Fields Irrigation Repairs</u>
– For Information

0259-2023

Moved: Councillor Cannon Seconded: Councillor Flynn

THAT: Council allocate up to \$6,000.00 from Council Initiatives for irrigation

repairs at the Elks Park Baseball Fields.

Amendment:

Moved: Councillor Lavery Seconded: Councillor Flynn

THAT: the irrigation repairs at the Elks Park Baseball Fields are contingent upon

the support of the Elks Board.

CARRIED UNANIMOUSLY

Motion as amended:

CARRIED

Councillor Lindgren Opposed

7. <u>Director of Engineering & Public Works - McGuire Lake Pathway Lighting - For Information</u>

For information.

Councillor Lavery left the meeting at 3:14 p.m. and returned to the meeting at 3:19 p.m.

8. Chief Financial Officer - Shuswap Watershed Council - For Information

For information.

10. **INTRODUCTION OF BYLAWS**

1. City of Salmon Arm Zoning Amendment Bylaw No. 4580 [ZON-1265; EWDS Holdings Ltd.; 2760 Auto Road SE; R-1 to R-8] - First and Second Reading

0260-2023

Moved: Councillor Cannon Seconded: Councillor Flynn

THAT: the Bylaw entitled City of Salmon Arm Zoning Amendment Bylaw No.

4580 be read a first and second time.

CARRIED UNANIMOUSLY

11. RECONSIDERATION OF BYLAWS

1. City of Salmon Arm Fee for Service Amendment Bylaw No. 4587 [Building Permit Review and Inspection Fees - Final Reading

0261-2023

Moved: Councillor Lindgren Seconded: Councillor Gonella

THAT: the Bylaw entitled City of Salmon Arm Fee for Service Amendment Bylaw

No. 4587 be read a final time.

CARRIED UNANIMOUSLY

12. CORRESPONDENCE

- 1. Informational Correspondence
 - 6. P. Wright, RCMP Musical Ride - Email dated May 10, 2023 - Request to Use Safeway Fields July 1 and 2, 2023

0262-2023

Moved: Councillor Cannon Seconded: Councillor Flynn

THAT: Council authorize the Rotary Club of Salmon Arm and the Salmon Arm and Shuswap Lake Agricultural Association to use Safeway Fields on July 1 and 2, 2023 for vehicle parking for attendees of the RCMP Musical Ride, subject to booking through the Shuswap Recreation Society and the provision of adequate liability insurance.

CARRIED UNANIMOUSLY

10. Interior Health, Office of the Medical Health Officers - Letter dated April 14, 2023 - Recent Exemption to the Controlled Drug and Substances Act -Recommendation to Municipalities

0263-2023

Moved: Councillor Flynn Seconded: Councillor Cannon

THAT: following referral to the Social Impact Advisory Committee, Council draft a letter to the Province asking for more support and protection for communities

regarding substance use in public spaces.

CARRIED UNANIMOUSLY

Councillor Flynn declared a conflict and left the meeting at 3:58 p.m.

12. CORRESPONDENCE - continued

1. <u>Informational Correspondence</u>

5. T. Timoffee, Early Years Family Navigator and Outdoor Play Facilitator,
Shuswap Children's Association – Letter dated May 4, 2023 – Travelling Tots
Playgroup - Request to Use Fletcher Park June 27, 2023

0264-2023

Moved: Councillor Cannon

Seconded: Councillor Wallace Richmond

THAT: Council authorize the Shuswap Children's Association to use Fletcher Park for the Travelling Tots Playgroup on June 27, 2023 from 9:00 a.m. to 12:00 p.m.

subject to the provision of adequate liability insurance.

CARRIED UNANIMOUSLY

Councillor Flynn returned to the meeting at 3:59 p.m.

7. E. Cleaver, School Director, Maple Tree Montessori - Letter received May 16, 2023 - Request to use Blackburn Gazebo - End of School Year Potluck and Celebration - June 30, 2023

0265-2023

Moved: Councillor Cannon Seconded: Councillor Gonella

THAT: Council authorize Maple Tree Montessori to use the Blackburn Park Gazebo for an end of school year potluck and celebration on June 30, 2023 from 11:00 a.m. to 2:00 p.m., subject to the provision of adequate liability insurance.

CARRIED UNANIMOUSLY

2. 2022 MRDT Annual Performance Report

0266-2023

Moved: Councillor Cannon Seconded: Councillor Flynn

THAT: Council authorize the submission of the 2022 MRDT Annual Performance

Report to the Province.

CARRIED UNANIMOUSLY

13. NEW BUSINESS

The meeting recessed at 4:07 p.m. The meeting reconvened at 4:10 p.m.

14. PRESENTATIONS

1. <u>Dr. Scott McKee - Critical Care Hospital Improvements at Shuswap Lake General Hospital (SLGH)</u>

Dr. Scott McKee, Head of Internal Medicine and Dr. Alison Howatt, Chief of Staff, Shuswap Lake General Hospital, provided an overview of the need for critical care hospital improvements at Shuswap Lake General Hospital and were available to answer questions from Council.

14. PRESENTATIONS - continued

1. <u>Dr. Scott McKee - Critical Care Hospital Improvements at Shuswap Lake General Hospital (SLGH)</u>

Councillor Cannon left the meeting at 4:58 p.m. and returned to the meeting at 5:00 p.m.

2. <u>Isha Matous-Gibbs, Urban Matters - Poverty Reduction Grant</u>

0267-2023 Moved: Councillor Lindgren

Seconded: Councillor Wallace Richmond

THAT: Council accept the Poverty Reduction De-Stigmatization, and Awareness

Campaign report dated May, 2023.

CARRIED UNANIMOUSLY

- 15. <u>COUNCIL STATEMENTS</u>
- 16. SALMON ARM SECONDARY YOUTH COUNCIL
- 17. NOTICE OF MOTION
- 18. UNFINISHED BUSINESS AND DEFERRED / TABLED ITEMS
- 19. OTHER BUSINESS
- 20. QUESTION AND ANSWER PERIOD

0268-2023 Moved: Councillor Cannon

Seconded: Councillor Flynn

THAT: pursuant to Section 90(1)(d) the security of the property of the municipality; and (e) the acquisition, disposition or expropriation of land or improvements, if the council considers that disclosure could reasonably be expected to harm the interests

of the municipality; of the Community Charter, Council move In-Camera.

CARRIED UNANIMOUSLY

Council moved In-Camera at 5:13 p.m. Councillor Wallace Richmond left the meeting at 5:13 p.m. Council returned to Regular Session at 5:45 p.m.

21. ADJOURNMENT

0269-2023 Moved: Councillor Flynn

Seconded: Councillor Cannon

THAT: the Regular Council Meeting of May 23, 2023 be adjourned.

CARRIED UNANIMOUSLY

The meeting adjourned at 5:45 p.m.

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City of Salmon Arm Regular Council Meeting of May 23, 2023

Page 8

CERTIFIED CORRECT:
CORPORATE OFFICER
MAYOR

Adopted by Council the day of June, 2023.

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Item 6.2

CITY OF SALMON ARM

Date: June 12, 2023

Moved: Councillor Gonella

Seconded: Councillor Flynn

THAT: the Special Council Meeting Minutes of June 1, 2023, be adopted as circulated.

SPECIAL COUNCIL

Minutes of a Special Meeting of Council of the City of Salmon Arm held in the Council Chambers of City Hall 500 – 2 Avenue NE and by electronic means, at 8:00 a.m. on Thursday, June 1, 2023.

PRESENT:

Mayor A. Harrison

Councillor T. Lavery (participated remotely)

Councillor S. Lindgren Councillor K. Flynn

Councillor D. Gonella (participated remotely)

Councillor D. Cannon

Councillor L. Wallace Richmond

Chief Administration Officer E. Jackson Director of Corporate Services S. Wood Director of Engineering & Public Works R. Niewenhuizen Director of Planning & Community Services. G. Buxton

ABSENT:

1. CALL TO ORDER

Mayor Harrison called the meeting to order at 8:00 a.m.

3. ACKNOWLEDGEMENT OF TRADITIONAL TERRITORY

Mayor Harrison read the following statement: "We acknowledge that we are gathering here on the traditional territory of the Secwepemc people, with whom we share these lands and where we live and work together."

2. IN-CAMERA SESSION

0270-2023 Moved: Councillor Lindgren

Seconded: Councillor Lavery

THAT: pursuant to Section 90(1)(I) discussions with municipal officers and employees respecting municipal objectives, measures and progress reports for the purposes of preparing an annual report under section 98; of the Community

Charter, Council move In-Camera.

CARRIED UNANIMOUSLY

Council moved In-Camera at 8:02 a.m. Council returned to Regular Session at 1:00 p.m.

MAYOR

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The meeting adjourned at 1:01 p.m.

0271-2023

Moved: Councillor Wallace Richmond

Seconded: Councillor Flynn

THAT: the Special Meeting of Council of June 1, 2023, be adjourned.

CARRIED UNANIMOUSLY
CERTIFIED CORRECT:
CORPORATE OFFICER

Adopted by Council the day of June, 2023.

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Item 7.1

CITY OF SALMON ARM

Date: June 12, 2023

Moved: Councillor Wallace Richmond

Seconded: Councillor Lavery

THAT: the Development and Planning Services Committee Meeting Minutes of June 5, 2023 be received as information.

DEVELOPMENT AND PLANNING SERVICES COMMITTEE

Minutes of a Meeting of the Development and Planning Services Committee of the City of Salmon Arm held in Council Chambers, City Hall, 500 – 2 Avenue NE, Salmon Arm, BC, and by electronic means on Monday, June 5, 2023.

PRESENT:

Mayor A. Harrison

Councillor T. Lavery (participated remotely)

Councillor K. Flynn (left the meeting at 9:25 a.m.)

Councillor D. Cannon

Councillor D. Gonella (participated remotely)

Councillor L. Wallace Richmond

Councillor S. Lindgren

Chief Administration Officer E. Jackson
Director of Engineering & Public Works R. Niewenhuizen
Director of Planning & Community Services G. Buxton
Director of Corporate Services S. Wood
Planner C. Larson
Planner S. Smyrl
Executive Assistant B. Puddifant

ABSENT:

1. CALL TO ORDER

Mayor Harrison called the meeting to order at 8:00 a.m.

2. <u>ACKNOWLEDGEMENT OF TRADITIONAL TERRITORY</u>

Mayor Harrison read the following statement: "We acknowledge that we are gathering here on the traditional territory of the Secwepemc people, with whom we share these lands and where we live and work together".

3. REVIEW OF THE AGENDA

4. DISCLOSURE OF INTEREST

5. REPORTS

1. <u>Development Variance Permit Application No. VP-581 [Vandermeer, R. & M.; 2900 40 Street NE; Servicing requirements</u>

Moved: Councillor Lindgren Seconded: Councillor Cannon

THAT: the Development and Planning Services Committee recommends to Council that Development Variance Permit No. VP-581 be authorized for issuance to vary the Subdivision and Development Servicing Bylaw No. 4163, for the 30 Avenue NE frontage of That Part of the North East ¼ of Section 19 Shown on Plan B4242; Township 20, Range 9, W6M, KDYD, waiving the requirement to upgrade 30 Avenue NE, including road widening and ditching.

M. & R. Vandermeer, the applicants, outlined the application and were available to answer questions from the Committee.

Councillor Lindgren left the meeting at 8:21 a.m. and returned at 8:22 a.m.

Amendment

Moved: Councillor Flynn Seconded: Councillor Cannon

THAT: Development Variance Permit No. VP-581 be authorized for issuance subject to the owner providing the required road dedication (approximately 3.965m).

CARRIED UNANIMOUSLY

Motion as amended:

CARRIED UNANIMOUSLY

2. <u>Development Variance Permit Application No. VP-567 [McLeod, T./Launch Construction Ltd.; 3390 30 Street NE; Servicing requirements]</u>

Moved: Councillor Cannon

Seconded: Councillor Lindgren

THAT: the Development and Planning Services Committee recommends to Council that Development Variance Permit No. VP-567 be authorized for issuance to vary the Subdivision and Development Servicing Bylaw No. 4163, for the frontage of Lot 1, Section 30, Township 20, Range 9, W6M, KDYD, Plan EPP123104 as follows:

- i) waive the installation of a bike lane (including ditching);
- ii) waive the provision of a Statutory Right of Way in favour of the City for the bike lane; and
- iii) waive the installation of one (1) fire hydrant.

T. McLeod, the applicant, outlined the application and was available to answer questions from the Committee.

DEFEATED UNANIMOUSLY

5. REPORTS - continued

2. <u>Development Variance Permit Application No. VP-567 [McLeod, T./Launch Construction Ltd.; 3390 30 Street NE; Servicing requirements] - continued</u>

Moved: Councillor Lavery Seconded: Councillor Flynn

THAT: Development Variance Permit No. VP-567 be authorized for issuance as follows:

- i) waive the installation of a bike lane (including ditching); and
- iii) waive the installation of one (1) fire hydrant.

AND THAT: the owner provide the road dedication for the required off-site works.

CARRIED UNANIMOUSLY

3. <u>Proposed Strata Conversion of a Previously Occupied Building [Brentwell Venture Ltd./Crevier, L.E. & S.; 31 4 Street SE]</u>

Moved: Councillor Wallace Richmond

Seconded: Councillor Gonella

THAT: the Development and Planning Services Committee recommends to Council that pursuant to Section 242 of the *Strata Property Act*, Council approve the strata conversion of the previously occupied building located on Lot 3, Block 1, Section 14, Township 20, Range 10, W6M, KDYD, Plan 936.

CARRIED UNANIMOUSLY

4. Zoning Amendment Application No. ZON-1264 [Brentwell Construction Ltd./Crevier, L. & S.; Text Amendment; Addition to Definitions and to R-5 (High Density Residential Zone)]

Moved: Councillor Cannon

Seconded: Councillor Wallace Richmond

THAT: the Development and Planning Services Committee recommends to Council that a bylaw be prepared for Council's consideration, adoption of which would amend Zoning Bylaw No. 2303 as follows:

- 1) Amend Section 2.2 Definitions Secondary Suite e) and f) to read:
 - e) must be located within a building or portion of a building of residential occupancy; and

5. REPORTS - continued

- 4. Zoning Amendment Application No. ZON-1264 [Brentwell Construction Ltd./Crevier, L. & S.; Text Amendment; Addition to Definitions and to R-5 (High Density Residential Zone)] continued
 - f) must be located within a building or portion of a building where both dwelling units constitute a single real estate entity.
 - 2) Amend the R-5 Zone Section 10.3.13 to add "Secondary Suite" as a permitted accessory use.

AND THAT: final reading of the Bylaw be withheld subject to Ministry of Transportation and Infrastructure approval.

CARRIED UNANIMOUSLY

5. <u>Development Variance Permit Application No. VP-582 [Brentwell Construction Ltd./Crevier, L. & S.; 31 4 Street SE; Off Street Parking requirements] (See Item 5.4 for Staff Report)</u>

Moved: Councillor Lindgren Seconded: Councillor Flynn

THAT: the Development and Planning Services Committee recommends to Council that Development Variance Permit No. 582 be authorized for issuance for Lot 3, Block 1, Section 14, Township 20, Range 10, W6M, KDYD, Plan 936 to vary the provisions of Zoning Bylaw No. 2303 – Appendix 1, Table A1-1 – Multi-Family R-5 & Suite – reduce the number of required off-street parking spaces from five (5) to four (4).

CARRIED UNANIMOUSLY

6. Development Variance Permit Application No. VP-574 [0695662 BC Ltd./Massier, G.; 1631 10 Street SE and 1561, 1581, 1621, 1641, 1661 and 1681 9 Street SE; Servicing requirement

Moved: Councillor Gonella Seconded: Councillor Lavery

THAT: the Development and Planning Services Committee recommends to Council that Development Variance Permit No. VP-574 be authorized for issuance for Lot 2, Section 11, Township 20, Range 10, W6M, KDYD, Plan 1915 Except Plan EPP115809 and Lots 2, 4, 6, 8, 10 & 12, Township 20, Range 10, W6M, KDYD, Plan EPP115809 which will vary the following provisions of Subdivision and Development Servicing Bylaw No. 4163 and Zoning Bylaw No. 2303 as follows:

i. Subdivision and Development Servicing Bylaw No. 4163, Section 4.11.4 –
extend the maximum permitted combined cul-de-sac length from 160
metres in length in Urban Development Areas to 249 metres for the future
8 Avenue SE; and

5. <u>REPORTS - continued</u>

- 6. Development Variance Permit Application No. VP-574 [0695662 BC Ltd./Massier, G.; 1631 10 Street SE and 1561, 1581, 1621, 1641, 1661 and 1681 9 Street SE; Servicing requirement continued
 - ii. Zoning Bylaw No. 2303, Section 4.12.1 (a) Fences and Retaining Walls increase the maximum permitted combined height of a fence in conjunction with a retaining wall from 2m (6.5 feet) to 6m (19.7 feet).
- G. Massier, the agent for the applicant, outlined the application and was available to answer questions from the Committee.

CARRIED UNANIMOUSLY

Councillor Cannon left the meeting at 9:24 a.m. Councillor Flynn left the meeting at 9:25 a.m.

7. Zoning Amendment Application No. ZON-1269 [City of Salmon Arm; Text Amendment; Accessible Parking Regulations]

Moved: Councillor Lindgren Seconded: Councillor Lavery

THAT: the Development and Planning Services Committee recommends to Council that a bylaw be prepared for Council's consideration, amending Zoning Bylaw No. 2303, as follows, by adding:

 To Section 2.0 Definitions, after "Accessory Use" and before "Accommodation Unit", the following:

Accessible Car Space means a car parking space designated for individuals with mobility limitations, who hold a valid accessible parking permit.

Accessible Van Space means a parking space designated for those with mobility issues designed to allow room for people to load or unload a wheelchair, scooter, walker or similar device that is used to transport a person who has limited ability and hold a valid accessible parking permit.

Accessible Parking Stall means either an Accessible Car Space or an Accessible Van Space.

ii) After Section 11 of Appendix I: Off – Street Parking and Loading, the following:

12. <u>Accessible Parking Stalls</u>

- .1 Accessible Car Spaces are a minimum of 5.8m depth x 2.4m width. Accessible Van Spaces are a minimum of 5.8m depth x 3.3m width, with an additional minimum aisle width of 1.5m. The additional aisle may be shared between neighbouring Accessible Van Spaces.
- .2 Accessible Parking Stalls must be:

5. REPORTS - continued

- 7. Zoning Amendment Application No. ZON-1269 [City of Salmon Arm; Text Amendment; Accessible Parking Regulations] continued
 - (a) clearly identified by both paint markings on the parking space and a freestanding Sign in front of the space that is not less than 1.2m above ground measured to the bottom of the Sign and incorporating the international symbol of accessibility for persons with disabilities. Accessible Van Spaces signage shall also include the words "van accessible";
 - (b) treated with a firm and slip-resistant surface;
 - (c) provided with a curb letdown from the shared access aisle to any raised pedestrian sidewalk that provides connectivity to the Building;
 - (d) constructed with a slope not exceeding 2%; and
 - (e) marked with high-colour-contrast diagonal pavement lines on the access aisle
 - .3 Of the required stalls for all permitted uses, the minimum number of Accessible Parking Stalls shall be provided in accordance with the following table:

Total Number of Parking Spaces required	Total Number of Accessible Parking Stalls to be Provided	Accessible Car Spaces to be provided	Accessible Van spaces to be provided
0-5	0	0	0
6-25	1	1	0
26-50	3	2	1
51-100	4	3	1
100+	6	4	2

- .4 Should Accessible Parking Stalls be provided that are in addition to those in Section 12.3 then those Accessible Parking Stalls must be in addition to the required number of parking stalls.
- .5 Parking facilities that are used exclusively for buses, trucks, delivery vehicles, law enforcement vehicles, and vehicular impound are not required to include accessible spaces. However, if such lots are accessed by the public (e.g., impounded vehicle retrieval), one (1) Accessible Parking Stall is to be provided.

Councillor Cannon returned to the meeting at 9:26 a.m.

6. <u>FOR INFORMATION</u>

7. <u>ADJOURNMENT</u>

Moved: Councillor Wallace Richmond

Seconded: Councillor Cannon

THAT: the Development and Planning Services Committee meeting of June 5, 2023

be adjourned.

CARRIED UNANIMOUSLY

The meeting adjourned at 9:32 a.m.	
	Mayor A. Harrison, Chair

Minutes received as information by Council at their Regular Meeting of , 2023.

Item 8.1

CITY OF SALMON ARM

Date: June 12, 2023

CSRD Connect Board Meeting Highlights - May 2023

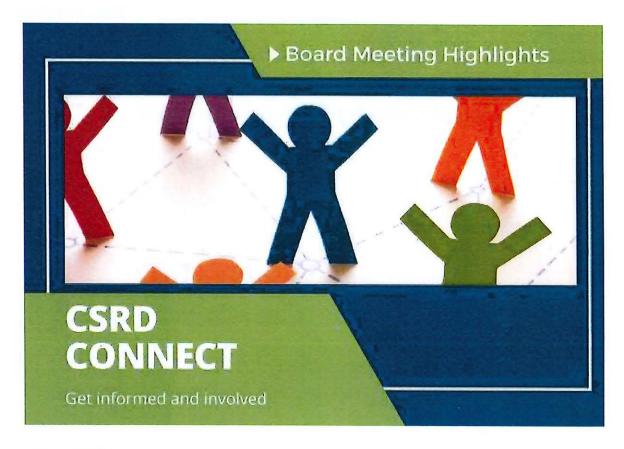
Rhonda West

From: Columbia Shuswap Regional District stserv@civicplus.com>

Sent: Friday, May 26, 2023 3:04 PM

To: Rhonda West

Subject: [External] CSRD Connect - Board Meeting Highlights - May 2023



May 2023

As part of the shift to our new website, the Columbia Shuswap Regional District is now able to integrate our E-newsletter directly with our website's sign-up function. We'd love to hear feedback about our new format. Please email communications@csrd.bc.ca with any comments or suggestions.

Board on the Road







Electoral Area D

Encompassing Falkland, the Salmon Valley, Ranchero and Deep Creek, Electoral Area D was the chosen area to host the CSRD's Board on the Road events for 2023. The May 18, 2023, regular CSRD meeting took place at the Falkland Community Hall. Directors were also treated to a tour of the area, including stops at local agricultural businesses and the Falkland Museum.

While Board on the Road was previously an annual event rotating between the Electoral Areas, this is the first time the CSRD has been able to host a meeting outside of the main Boardroom in Salmon Arm since the pandemic. The location for the 2024 Board on the Road is still to be determined.

Correspondence

Canada Post Request for support

CSRD Directors were asked to provide support of a postal code change process initiated by Canada Post for the Sorrento, Tappen and Blind Bay areas and planned for October 2023. The Board deferred a decision until after the Canada Post public engagement process, which is scheduled to start in July.

Committee Reports

Electoral Area Directors' Committee

In light of the current challenges with affordable housing, the Board agreed write a letter to the Ministry of Housing regarding concerns with additional costs, administration and colder climate application associated with the BC Energy Step Code legislation and the lack of consultation with local governments.

Business By Area

Glenemma Recreation Site

The Board approved using \$80,000 in reserve funds to cover additional costs required by the Agricultural Land Commission to fence the trailhead area. The Glenemma Rec Site and Trail Proposal calls for the development of a day-use parking lot and staging area which would accommodate non-motorized, motorized and equestrian uses. It would also include a non-motorized trail network, a motorized youth skills development trail, a vault toilet,



picnic tables, hitching posts for horses and garbage and recycling containers. Work on the project will begin this season.



Electoral Area D Community Works Funds

Four community projects in Electoral Area D will be moving ahead after Columbia Shuswap Regional District (CSRD) Directors voted to support the use of <u>Community Works Funds</u> at Thursday's Board on the Road Meeting held in the Falkland Community Hall.

The newly funded projects include:

an ice chiller replacement for the Falkland and District Curling Club for \$160,480, revitalization work for Silver Creek Community Hall for \$220,721, upgrades to the Salmon Valley Senior Citizens Hall for \$86,394, emergency electrical upgrades at the Falkland Museum for \$13,249.

All four items were approved unanimously by Board Directors, with Electoral Area D Director Dean Trumbley recusing himself from the vote on the funding for the Falkland Museum due to a conflict of interest.

Administration Bylaws

Shuswap Watershed Council

The Board is recommending a <u>referendum</u> be conducted on the continued use of a <u>parcel tax</u> to fund the activities of the Shuswap Watershed Council on a permanent basis.

Currently the Shuswap Watershed council is funded through a parcel tax of \$9.07 per property. A parcel tax is a flat rate fee applied to each parcel of land in the proposed service area.



The Shuswap Watershed Council is a non-profit group focused on protecting, maintaining and enhancing water quality and promoting safe recreation in the Shuswap.

Directors voted unanimously in favour of taking the issue to a full assent vote for all eligible voters in Electoral Areas C, D, E, F, and G and the District of Sicamous. The assent vote and its associated bylaws needs final approval from the Provincial Ministry of Municipal Affairs before officially proceeding.

Land Use Matters







Electoral Area G: Cannabis Retail Licence

Copper Island Cannabis Co. has applied to the provincial Liquor and Cannabis Regulation Branch (LCRB) to obtain a licence to operate a non-medical cannabis retail store at 1245 Trans-Canada Highway in Sorrento. These applications can not be approved unless there is a positive recommendation from the local government in the area. The Board unanimously agreed to support the proposal. The final decision on issuing the licence rests with the LCRB.

For information and background reports for the other Development Services items discussed at this meeting, please see the <u>May 18, 2023 Board meeting agenda</u>. If you have questions about a specific application, contact the planning department at plan@csrd.bc.ca

Closed meeting releases

The resolutions released from the May 18, 2023 Board Meeting are as follows:

THAT: in accordance with the provisions of the Solid Waste Management Plan Public and Technical Advisory Committee Terms of Reference,

Laura Baer,

Barry Hunchak,

Jennifer Taylor,

Barbra Fairclough,

Alan Scales

be appointed to serve on the Public and Technical Advisory Committee effective May 18, 2023 and expiring upon completion of the Solid Waste Management Plan Review.

Next Board Meeting

Thursday, June 15, 2023

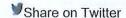
The Regular CSRD Board Meeting will be held in the CSRD Boardroom, at 555 Harbourfront Drive NE, Salmon Arm. The Regular Board meeting public session generally starts at 9:30 AM (PT) / 10:30 AM (MT). Any scheduling changes to the meeting start time will be noted on the Meeting Calendar on the CSRD's website.



The public is encouraged to join the meeting in-person or via **Zoom**. The access link can also be found on the **Meeting Calendar** of the CSRD website under the Board meeting date.

Please note: the CSRD Connect newsletter is not a substitute for the regional district's Board meeting minutes, which cover all agenda items. Minutes are available for public review at the <u>Agendas & Minutes</u> page of our website, <u>www.csrd.bc.ca</u>







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Item 9.1

CITY OF SALMON ARM

Date: June 12, 2023

Moved: Councillor

Seconded: Councillor

THAT: the Council of the City of Salmon Arm authorize the use of City lands for the following Special Events Licenses in 2023:

Salmon Arm Folk Music Society (Roots and Blues)
 Location: 471 – 10 Street SW (Fall Fair Grounds)
 Four (4) Alcohol Serving Areas and Hours of Licensed Operation:

Main Beverage Garden and Tasting Lounge
(patron area)

August 19th: 10:00 a.m. to 12:30 a.m.

August 20th: 10:00 a.m. to 12:30 a.m.

August 19th: 3:00 p.m. to 12:30 a.m.

August 19th: 10:00 a.m. to 12:30 a.m.

August 19th: 10:00 a.m. to 12:30 a.m.

August 20th: 10:00 a.m. to 12:30 a.m.

August 18th: 3:00 p.m. to 12:30 a.m.

August 18th: 3:00 p.m. to 12:30 a.m.

August 19th: 10:00 a.m. to 12:30 a.m.

August 19th: 10:00 a.m. to 12:30 a.m.

August 20th: 10:00 a.m. to 12:30 a.m.

- Salmon Arm and Shuswap Lake Agricultural Association (Fall Fair)
 Location: 471 10 Street SW (Fall Fair Grounds)
 Hours of Licensed Operation:
 - ➤ September 8th: 11:00 a.m. to 9:00 p.m.
 - > September 9th: 11:00 a.m. to 9:00 p.m.
 - > September 10th: 11:00 a.m. to 4:00 p.m.

SALMONARM

TO:

His Worship Mayor Harrison and Council

DATE:

June 02, 2023

FROM:

Manager of Permits and Licensing

SUBJECT:

Licensing of Special Events on City Property - 2023

MOTION FOR CONSIDERATION:

THAT:

The Council of the City of Salmon Arm authorize the use of City lands for the following Special Events Licenses in 2023:

1. Salmon Arm Folk Music Society (Roots and Blues)

Location: 471 - 10 Street SW (Fall Fair Grounds)

Four (4) Alcohol Serving Area and Hours of Licensed Operation:

- Main Beverage Garden and Tasting Lounge (patron area)
 - o Aug 18h 3pm to 12:30am
 - o Aug 19th 10:00am to 12:30am
 - o Aug 20th 10:00am to 12:30am
- Barn Beverage Garden (patron area)
 - o Aug 18h 3pm to 12:30am
 - o Aug 19th 10:00am to 12:30am
 - o Aug 20th 10:00am to 12:30am
- VIP Lounge (private access area)
 - o Aug 18h 3pm to 12:30am
 - o Aug 19th 10:00am to 12:30am
 - o Aug 20th 10:00am to 12:30am
- Volunteer Party (private access area)
 - o Aug 20th to 21st -10pm to 3:00am
- 2. Salmon Arm and Shuswap Lake Agricultural Association (Fall Fair)

Location: 471 - 10 Street SW (Fall Fair Grounds)

Hours of Licensed Operation

- Sept 8th 11:00am to 9:00pm
- Sept 9th 11:00am to 9:00pm
- Sept 10th 11:00am to 4:00pm

BACKGROUND:

In order to obtain a Special Event Permit from the Liquor and Cannabis Regulation Branch for special events on public land, the event organizers must obtain permission from the Local Government to host such events. A liquor safety plan is required as a condition of obtaining Council approval for the application.

The liquor safety plans for the referenced events have been reviewed and approved by the RCMP. The Manager of Permits and Licensing therefore advises there are no objections from City Staff or the RCMP for the use of City Lands for the Special Events as set out in the Motion for Consideration.

Respectfully submitted,

Prepared By:

Maurice Roy, RBO/CRBO Manager of Permits & Licensing

MR:mr

Reviewed By:

Gary Buxton

Director of Planning & Community Services

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Item 9.2

CITY OF SALMON ARM

Date: June 12, 2023

Moved: Councillor

Seconded: Councillor

THAT: City staff be authorized to submit a grant application to the UBCM Complete Communities 2023/2024 Program up to an amount of \$150,000.00;

AND THAT: the 2023 budget contained in the 2023-2027 Financial Plan Bylaw be amended to reflect a Complete Communities Assessment in the amount of \$150,000, funded from a UBCM Complete Communities Grant.



To:

His Worship Mayor Harrison and Council

Date:

May 24, 2023

Subject:

UBCM Communities Grant Program

MOTION FOR CONSIDERATION:

THAT:

City staff be authorized to submit a grant application to the UBCM Complete

Communities 2023/2024 Program up to an amount of \$150,000;

AND THAT:

the 2023 budget contained in the 2023 - 2027 Financial Plan Bylaw be amended to

reflect a Complete Communities Assessment in the amount of \$150,000, funded

from a UBCM Complete Communities Grant.

BACKGROUND:

The UBCM Complete Communities program supports communities in undertaking assessments to inform land use decision-making, considering housing need, supply, and location; providing transportation options including increased walkability; and making connections to infrastructure investment and servicing decisions.

"Complete Communities" is a broad concept and can be defined in several different ways. For the purposes of the program, complete communities are areas within a community – which provide a diversity of housing to meet identified community needs and accommodate people at all stages of life, and provide a wider range of employment opportunities, amenities, and services within a 15-20 minute walk. (More complete details are available at:

https://www2.gov.bc.ca/assets/gov/housing-and-tenancy/tools-for-government/publications/complete-communities-guide.pdf)

Many of the principles associated with Complete Communities are common with those of "Smart Growth," and consistent with the growth management policies contained in Section 4.4 of the Official Community Plan (OCP).

Staff propose making a grant application to the maximum permitted (\$150,000) to UBCM, seeking to engage a consultant to perform a Complete Communities assessment of the "Residential High Density" area identified south of the "Commercial City Centre" area in the OCP. The intent would be to inform policy in the upcoming OCP review for the "Residential High Density" area, and what would be the transportation, land use and infrastructure implications of building out that area as anticipated.

Garty Buxton

Director of Planning & Community Services

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Item 9.3

CITY OF SALMON ARM

Date: June 12, 2023

Moved: Councillor

Seconded: Councillor

THAT: Council accept the Project Charter for the Official Community Plan review identified as Attachment #1 to the staff report dated June 2, 2023;

AND THAT: Council direct the issuance of a RFP for Official Community Plan public engagement services.

CITY OF SALMONARM

To:

His Worship Mayor Harrison and Council

Date:

June 2, 2023

Subject:

Official Community Plan Bylaw No. 4000 Review

MOTION FOR CONSIDERATON:

THAT:

Council accept the Project Charter for the OCP review presented by Planning

Department staff on June 12, 2023; and

AND THAT: Council direct the issuance of a RFP for OCP public engagement services.

BACKGROUND:

The City's Official Community Plan (OCP) (Bylaw No. 4000) was adopted by Council on November 14, 2011, and is now approaching 12 years old. As the City's overall document to manage change in the community, and to guide the future growth and future decision making, it is essential that the plan remains current and relevant to the conditions and circumstances in which it is used. Given the level of growth and change in the community over the last dozen years, it is therefore an appropriate time to consider a review of the OCP, and the City's Corporate and Strategic Plan (2022) recognized this and directed that a review be undertaken as a short term priority (2022-2024).

In follow up to the initial OCP review outline provided to Council on May 8, the following is attached for Council review and approval:

- 1. Project Charter (detailed project plan)
- 2. OCP Gantt Chart (detailed schedule of activities)
- 3. Draft RFP for Public Engagement Program
- 4. Draft Terms of Reference for OCP Steering Committee

Project Charter

This document provides a more detailed outline of the plan to complete the OCP review (the Project). The plan proposes that the engagement process be undertaken using a consultant (further direction is provided in the RFP document), while staff will undertake policy drafting. At present the Project budget is \$200,000 (including staff backfill expenses). Once the RFP process is complete, staff will report back with any additional budget requirements, that could be addressed through the 2024 budget.

The Charter identifies assumptions being made, risks to the Project, and any mitigations that are possible to manage the identified risks. The highest risks remain around resources, budgets and the timeline.

The Charter also identifies a series of timeline milestones against which progress can be evaluated to determine if the Project is on schedule and making progress. A more detailed outline of the tasks that make up the milestones is provided in the OCP Gantt Chart. These tasks may shift as the Project moves forward. Early milestones relate to the issuance and processing of the RFP and the identification of major issues to address, both by Council at a workshop, and the community through an online survey instrument.

Finally the Charter identifies clear roles and responsibilities for the participants (Council, Staff, Consultants, Steering Committee) in the Project.

RFP for Public Engagement Program

This document outlines a request to consultants to provide proposals regarding the public engagement program, and what the Project requires in this respect (Part B, Sections 2, 3 and 4).

The RFP outlines that the City is seeking a consultant with demonstrable experience in the design and implementation of a broad and equitable community engagement program. The RFP indicates that the primary consulting services should be accommodated in a budget of \$125,000 (leaving \$75,000 of the budget for staff backfill expenses), and to provide details of a supplementary engagement program that they consider as activities and processes that would enhance the primary program. Once the RFP submissions are received, the City can determine if the primary consulting services are adequate to meet the needs of the City, and what if any, of the supplementary program the City would like to engage. At this point, the City will be in a position to determine if the current \$200,000 budget is adequate or if additions are needed.

The consultant is asked to develop a public engagement process that is targeted and focused in its approach, and include a wide variety of strategies and methods to involve key stakeholder groups, to seek out feedback from harder to reach voices, to design a program that "meets people where they are at," and makes engagement with the program as simple and convenient as possible for the community.

The RFP deliverables include:

- The design of a public consultation program
- The effective implementation of the approved program
- Interim reports on results and effectiveness
- Presentation of interim reports to Steering Committee
- Presentation of an engagement summary report to Council
- Document design and production of the OCP
- Production of all mapping related to the OCP

The RFP will be reviewed by a sub-committee of the Mayor, a member of Council and staff, who will make a recommendation that will be ratified by Council prior to a contract being prepared with the consultant. It is anticipated that the RFP will process conclude in Q3 2023, and the contract will be awarded to the Proponent in Q4 2023. The anticipated conclusion of the Project is Q1 2025.

OCP Steering Committee (OCP-SC) Terms of Reference

The terms of reference outlines the purpose, operations and membership of a committee to assist with the public engagement process. The purpose of the OCP-SC is to support and assist Council

to ensure that the revised OCP document is reflective of and connected to the public input received as part of the public engagement. It will act as intermediary between Planning Department staff and the engagement consultants, to both continuously evaluate the effectiveness of the engagement process and to determine if outputs (draft policy) are connected to inputs (public comments).

The OCP-SC will work with City staff and the public engagement consultant on tasks including:

- Assisting in the development of the engagement plan
- · Approving the engagement plan
- Monitoring the effectiveness of the engagement plan
- Making recommendations to the consultant
- Sharing information on the engagement plan and encouraging public participation
- Sharing draft plan content with their respective constituencies or networks
- Providing guidance to staff in the drafting of OCP policy

The OCP-SC is not intended to function as a method to provide input into the content of the new OCP, and is not formulated as a "content creation" committee directing the preparation of draft policy (which could significantly limit the range of public input). It is instead to ensure that the resulting policy drafts created by staff are connected to the input that arrives through the engagement program.

Membership of the OCP-SC would consist of sixteen (16) members:

- One (1) member of Council
- One (1) member from SA Economic Development Society
- One (1) member from Interior Health
- One (1) member from Shuswap Trail Alliance
- One (1) member from Shuswap Recreation Society
- One (1) member from Shuswap Family Resource and Referral Society
- One (1) member from Downtown Salmon Arm
- One (1) member from Shuswap Association for Community Living
- One (1) member from Salmon Arm and Shuswap Agricultural Association
- One (1) member from SCIP Shuswap Construction Industry Professionals or Realtor
- Six (6) Citizens-at-large

Staff would actively recruit the members of the OCP-SC, by reaching out to the above noted agencies and advertise for the citizens-at-large members.

Staff are seeking Council acceptance of the Charter and related documents to allow the OCP review process to actively start.

Gary Buxton

Director of Planning & Community Services

Attachment #1



OFFICIAL COMMUNITY PLAN (OCP) BYLAW 4000 REVIEW

PROJECT CHARTER

VERSION 1.1

10/29/2023

REVISION HISTORY					
Date:	Version	Description	Author		
10/05/20233	1.0	Initial Draft	GB		
10/29/2023	1.1	Internal Review	GB		

DISTRIBUTION LIST				
Name:	Role:	Date of distribution:		
Gary Buxton	Project Manager			
Melinda Smyrl	Project Coordinator			
Chris Larsen	Project Coordinator			
Consultant - TBD	Engagement Lead			

APPROVALS		
Date	Approval Notes:	

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PURPOSE

A comprehensive review and rewrite of the City of Salmon Arm Official Community Plan (OCP).

The current OCP dates to November 2011, and is now approaching 12 years old. The OCP is the City's principal tool to manage change in the community, and to guide the future growth and future decision making. It is essential that the plan remains current and relevant to the conditions and circumstances in which it is used.

Given the level of growth and change in the community since the OCP was approved, it is necessary to undertake a review of the OCP, so that it addresses issues, trends, patterns and concerns that are relevant to the current community. Significant changes affecting the community since 2011 include:

- Climate change and greenhouse gas emissions
- Significant infrastructure planning and upgrades in the community
- Shifting transportation options
- Changing housing and housing related costs
- Changing commercial and retail related patterns

It is essential that policy guidance contained in the OCP addresses these changes and provides direction that is both current and relevant, and addresses any policy gaps that have emerged since 2011.

OBJECTIVES AND SUCCESS CRITERIA

The review and rewrite of the OCP (the Project) is identified in the City's Corporate and Strategic Plan (2022), and directed that a review be undertaken as a short term priority (2022-2024).

Overall success would be defined as the completion of a comprehensive community planning document within a two (2) year time period from the start of activities. This would then provide ongoing guidance for Council decision making for the next 5-7 years (assuming that significant unanticipated changes in the community do not appear).

Secondary success criteria would be:

- Identification of data gaps and the determination of how to address those gaps
- Completion of a successful comprehensive public engagement program (measured by survey of participants and the community)
- Successful recruitment and successful operation of a project Steering Committee.

REQUIREMENTS

Adequate budget and staffing resources are required to undertake the Project. Financial resources are required to be able to engage contracted services to perform the public engagement. With only 3 technical and 1 administrative staff position in the Planning Department, it is not possible to undertake effective public engagement without significant degradation of service levels for day to day departmental functions (e.g. various permit review processes).

Some form of "backfilling" role in terms of an additional staff position is required to free up time on the part of current Planning Department staff (Project Coordinators) to perform the function of policy writing. In the absence of additional resources (subject to Council review and approval), there is the risk of project delays or degradation of service levels for day to day departmental functions.

Filling the backfill role will not be required until 2024. A decision on how to fill this role will not be made until the RFP process has concluded and the budget requirements are clearly understood for 2024.

A competent contractor will be required to be engaged to both design and undertake a robust public engagement plan. Consultants have specific expertise in the area of public engagement that will be more effective both in terms of design and implementation of such programs than if the work is performed by staff.

The details and objectives of the public engagement program will be provided in the Request for Proposals document created to identify the appropriate contractor.

PROJECT ASSUMPTIONS AND/OR CONSTRAINTS

At present the project budget is \$200,000. It is assumed at this point that until otherwise identified that this will be adequate to achieve the desired objective(s).

Once the public engagement RFP process has concluded, the City will have more information on the amount required to perform this part of the process. The amount remaining in the budget once public engagement costs have been removed, will indicate the ability to then fund any "backfill" role in the Planning Department. At that point in time, if funds are inadequate to provide both public engagement and backfill services, then a decision will need to be made on whether to increase the overall Project budget in 2024/2025, or to make adjustments to the Project timeline. The backfill role will not be required until 2024. Continued need for the backfill role in 2025 will be determined by the Project schedule through 2023 and 2024.

It is assumed that staff have both the capacity and ability to perform the required tasks. Staff capacity will be somewhat contingent on the backfill role. All current staff in the Planning Department have experience in both public engagement activities and drafting of policy documents.

It is assumed that through the RFP, that a competent consultant can be engaged to undertake the public engagement portion of the Project.

PRELIMINARY RISK STATEMENT

The following initial Project risks are identified, along with potential mitigation options:

Risk:	Likelihood:	Impact:	Potential Mitigation(s):
Inadequate budget	Moderate	Significant	RFP management and review. Adjustment of budget for 2024 and 2025 by Council as needed or desired. Adjusted (slowed) Project schedule.
Inadequate staff backfill resources Either through inadequate budget or inability to recruit	Moderate to High	Significant	Expanded / enhanced recruitment program. Consider consultant services as an option to a staff position. Adjusted (slowed) Project schedule. Adjusted service levels (slower) in the Planning Department.

Inability to source consulting services	Low	Significant	Adjustment of budget for 2024 and 2025 by Council as needed or desired.
	· ·		Adjusted (slowed) Project schedule.
			Reissue an amended RFP.
Unanticipated / significant public issues or concerns	Low	Moderate	Early identification of public concerns. Adjusted (slowed) Project schedule.
Timeline extended / milestones unmet	High	Moderate	Adjustment of budget for 2024 and 2025 by Council as needed or desired.

SUMMARY MILESTONE SCHEDULE

The following outlines a basic Project outline. A more detailed Project schedule is contained in Appendix 1.

Project Milestone	Forecast Date
Project Charter approval (Council)	July 2023
Public engagement RFP	August 2023
Council workshop on issue identification	August 2023
Close RFP process and select consultant	September 2023
Identification of data needs and gaps	September 2023
Community survey on issue identification	Sept. – Oct. 2023
Detailed engagement process design	October 2023
Initial contacts with critical stakeholders	October 2023
Start Steering Committee recruitment	October 2023
Approval of engagement process	November 2023
Appoint Steering Committee	December 2023
Initial Steering Committee meeting	January 2024
Review / approve engagement plan	January 2024
Commence public engagement program	January 2024
Public engagement process details	Jan Nov. 2024
Conclude public engagement program	November 2024
Initial draft document	September 2024
Review / revisions to draft document	Oct Nov. 2024

Draft bylaw ready for review	January 2025
Statutory hearing process	Feb. – Mar. 2025
Bylaw adoption / Project conclusion	Mar. – Apr. 2025

SUMMARY ESTIMATED BUDGET

The current budget for the Project is \$200,000. It will be funded through a provisional reserve fund that the City has created in recent years, and / or any other funds that Council should choose to direct to the Project. This forecasted amount will be adjusted once the public engagement RFP process has closed, to derive a more precise budget.

Rough Order of Magnitude (ROM) Item	ROM Estimate (TBD)	
Public Consultation	\$ TBD	
Internal Backfill Staffing Resources	\$ TBD	
Miscellaneous (design, printing, materials, meeting logistics, communications)	\$ TBD	
Total Budget Estimate	\$200,000	

PROJECT GOVERNANCE REQUIREMENTS

Council will have decision making responsibility for review and approval of the resulting OCP document.

Council retains all control of the Project budget and Project scope.

The Project Manager will be accountable for overall Project management and any expenses.

A sub committee of the Mayor, a councillor, the CAO, the Project Manager and the Project Coordinators will review any RFP submissions and make a recommendation to Council on the preferred consultant.

Council will confirm the recommendation on the preferred consultant for public engagement.

The Steering Committee will be responsible for making recommendations to the public engagement consultant on planned activities.

The Steering Committee will be responsible for approving any public engagement plan.

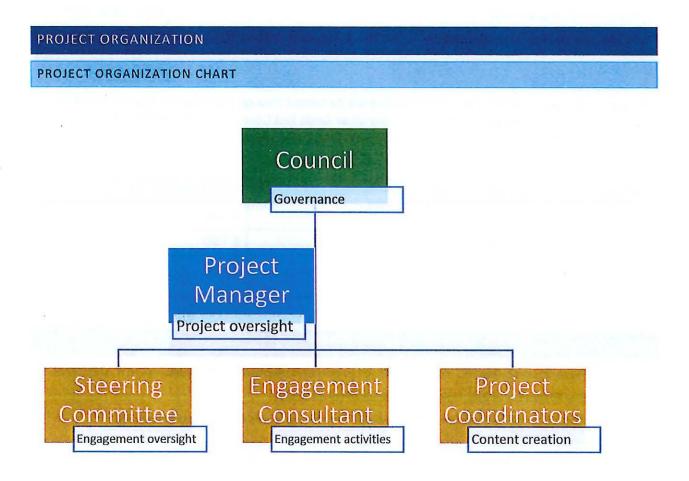
The Steering Committee will be responsible for making recommendations to the Project Coordinators with respect to drafting the resulting OCP document.

PROJECT MANAGER RESPONSIBILITIES

The Project Manager will be responsible for overall management of the Project, including:

- Budget oversight
- Status updates to Council
- Making scope change recommendations to Council
- Oversight and amendments to this plan
- Direction and delegation to staff
- Communication and direction to the public engagement consultant
- Liaison with the Steering Committee
- Ensuring timely and successful completion of the project

· Recommendations for taking any corrective action.



ROLES AND RESPONSIBILITIES

	Council	Project Manager	Steering Committee	Project Coordinators	Engagement Consultant
TASK					
Project Planning	С	R	С	С	1
RFP Process	С	R		С	
Issue Identification	R	Α	Ţ	С	I
Gap Identification	Α	С	1	R	1
Steering Committee appointment	А	R		С	
Engagement Planning	1	С	А	С	R
Engagement Activities	1-	С	А	С	R
Document Crafting		Α	С	R	С

Responsible - the person who will actually complete the task.

Accountable - the role or person who is ultimately held accountable for the activity.

Consulted - the person who can assist with the completion of the task, but is not the 'doer'.

Informed - the person or people who need to be informed about the progress or completion of the task.

APPENDICES

APPENDIX 1

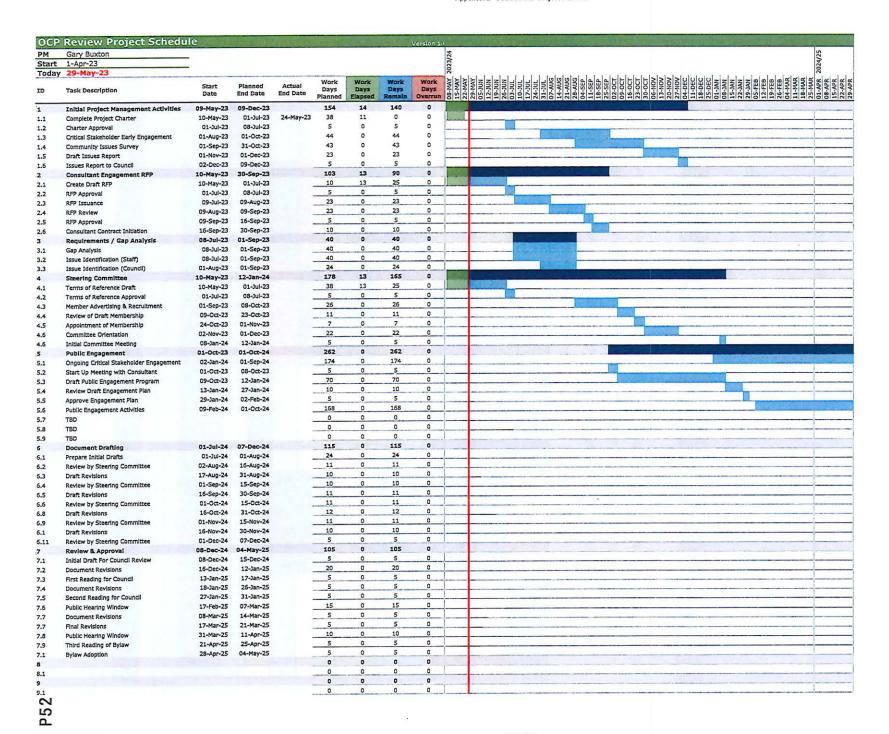
Detailed Project Schedule

APPENDIX 2

OCP Public Engagement RFP (draft)

APPENDIX 3

Steering Committee Terms of Reference



Official Community Plan (OCP) Bylaw 4000 Review and Rewrite Steering Committee Terms of Reference OCP-SC

Purpose:

The purpose of the Official Community Plan Steering Committee (OCP-SC) is to support and assist Council to ensure that the revised OCP document is reflective of and connected to the public input received as part of the engagement process.

Mandate:

The OCP-SC will act as intermediary between Planning Department staff and the engagement consultants, to both continuously evaluate the effectiveness of the engagement process and to determine if outputs (draft policy) are connected to inputs (public comments).

The OCP-SC will work with City staff and the public engagement consultant as part of the OCP review process, including:

- Assisting in the development of the OCP engagement plan
- Approving the OCP engagement plan
- Monitoring the effectiveness of the OCP engagement plan
- · Making recommendations to the consultant on amendments to the engagement plan
- Sharing information on the engagement plan and encouraging public participation with their respective constituencies or networks
- Sharing draft plan content with their respective constituencies or networks
- Providing guidance to staff in the drafting of OCP policy in accordance with the public input received

The OCP-SC is not intended to function as a method to provide input into the content in the review of the OCP, and is not formulated as a "content creation" committee directing the preparation of draft policy (which could significantly limit the range of public input). It is instead to ensure that the resulting policy drafts created by staff are connected to the input that arrives through the engagement program.

Meetings:

The OCP-SC will meet as is necessary. A regular schedule of meetings will be established at the first meeting of the OCP-SC. Special meetings may be held at the call of the Chair. There will be more frequent meetings initially as the OCP-SC forms and the engagement plan is reviewed.

Procedures:

The meeting rules and procedures will be in accordance with the Council Procedure Bylaw. Minutes will be kept and shared with Council as they are produced. Minutes will not identify individuals but will record discussions among the group generally.

The OCP-SC will select a chairperson from its' members at the initial meeting.

Membership:

OCP-SC members will be appointed by Council. To the extent possible, the OCP-SC will have a diverse membership with respect to gender, age and socio-economic and cultural background, and will consist of **sixteen (16)** members with experience and interest in community growth and development and managing and guiding change in the community.

Membership:

- One (1) member of Council
- One (1) member from SA Economic Development Society
- One (1) member from Interior Health
- One (1) member from Shuswap Trail Alliance
- One (1) member from Shuswap Recreation Society
- One (1) member from Shuswap Family Center
- One (1) member from Downtown Salmon Arm
- One (1) member from Shuswap Association for Community Living
- One (1) member from Salmon Arm and Shuswap Agricultural Association
- One (1) member from SCIP Shuswap Construction Industry Professionals or Realtor
- Six (6) Citizens-At-Large.

The identified organizations or community sectors will be notified by staff and asked to nominate a representative and submit written requests from their membership proposing the appointment. They will also identify an alternate who will attend in the absence of the appointed member.

There will be a public call for Citizens-At-Large members. Council will appoint Citizen-At-Large members after reviewing the submitted applications. Citizen-At-Large members will be recruited on the basis of the member's interest in overall community development and not on the basis of representation of any specific group or issue of interest (although membership in an organization or group does not preclude participation in an "at-large" manner).

Members will serve for the duration of the OCP review project. If a member from an organization or community sectors resigns, then the alternate shall join the OCP-SC, or the organization may nominate a new representative. Citizen-At –Large members may be replaced by Council using the methods for initial recruitment. The decision to replace a resign member will consider the time remaining in the OCP review project.

Council may remove a member of the OCP-SC and reappoint accordingly. Grounds for removal include behaviour that is not consistent with the Committee Code of Conduct Policy.

Quorum:

Quorum will be constituted by nine (9) or more members of the OCP-SC.

Decision Making:

The OCP-SC will undertake the majority of its' decision making by seeking to achieve consensus, where almost all elements of the decision are unanimously agreed to, but there may be less important elements that are not.

When consensus is not possible, the OCP-SC will seek agreement amongst the group, where most of the elements of the decision are acceptable, when other less important elements may not be acceptable.

When agreement is not possible, then the OCP-SC may use majority voting of members to reach a decision.

Decisions of the group will be made as a group, and will not be assigned or credited to any individual on the OCP-SC. At any point, a member of the group may ask that their dissenting opinion to any decision be recorded, and it will be duly recorded.

Staff Support:

The Planning Department will provide the required professional, secretarial and administrative support. Other City staff will attend as is necessary.

The OCP-SC chairperson or the OCP Project Manager may request the attendance of subject matter experts or other members of the public that are not members of the OCP-SC to attend to provide information to the Committee.

Neither staff or members of the public attending an OCP-SC will have a vote in any decision made by the OCP-SC. Members of the public attending may address the OCP-SC only with the approval of the OCP-SC chairperson, upon request.

Review of Terms of Reference:

Council will review these Terms of Reference as is necessary.



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Item 9.4

CITY OF SALMON ARM

Date: June 12, 2023

Moved: Councillor

Seconded: Councillor

THAT: the Mayor and Corporate Officer be authorized to execute the 2023/2024 Annual Operating Agreement for Transit Services between the City of Salmon Arm and BC Transit.



File: 8500-Transit AOA

TO:

His Worship Mayor Harrison and Members of Council

FROM:

Robert Niewenhuizen, Director of Engineering and Public Works

DATE:

June 2, 2023

SUBJECT:

ANNUAL TRANSIT OPERATING AGREEMENT

RECOMMENDATION:

THAT:

The Mayor and Corporate Officer be authorized to execute the 2023/2024

Annual Operating Agreement for Transit Services between the City of Salmon Arm

and BC Transit.

BACKGROUND:

BC Transit has forwarded the 2023/2024 Draft Annual Operating Agreement (AOA) for the Shuswap Regional Transit system for approval.

The agreement is based on the Transit Service Agreement which is the principal overarching service agreement. Each year, the AOA confirms the budgeted service levels, revenue projections and cost structure for the transit system.

BC Transit continues to focus on building back transit ridership to pre-pandemic levels and supporting community's across BC through their ongoing recovery. As of January 2023, total ridership has recovered to more than 90 per cent compared to 2019-2020 levels. BC Transit is anticipating further economic uncertainty in the months and years ahead, the \$150.6 million operating grant announced by the Province in the recently tabled provincial budget will enable BC Transit to maintain existing service levels for 2023-24. It is anticipated that BC Transit will continue to face challenges with fuel price volatility and a higher price per litre is reflected in the operating budget for the Shuswap Transit system. As previously advised, BC Transit has reverted back to billing based on actual expenditures instead of budget and the City is therefore responsible for managing price volatility within its own reserve.

At the end of March 2022 the City received an additional COVID Safe Restart and Recovery Contribution equal to \$41,448. The City has the benefit of utilizing this funding stream to offset any reduced revenues and municipal share of operating costs. Given the timing of the announcement in 2022, BC Transit was unable to incorporate the additional funding into the 2022/2023 AOA. However staff have requested this funding be applied to the 2023/2024 operating year and the AOA and City's 2023 budgets reflect this.

Staff have reviewed the agreement as presented along with the projected revenues and expenses associated with the 2023/2024 AOA and the City's 2023 Transit Services budgets are sufficient and therefore do not require an amendment at this time.

Respectfully submitted,

Robert Niewenhuizen, AScT

Director of Engineering and Public Works

cc Chelsea Van de Cappelle, CFO

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Item 9.5

CITY OF SALMON ARM

Date: June 12, 2023

Moved: Councillor

Seconded: Councillor

THAT: Council accept the proposal from PetroValue Products Canada Inc. at their quoted unit prices for the Supply of Bulk Aviation Fuels and Related Delivery Services for a term of three (3) years commencing July 1, 2023.



File: 8400.00

TO:

His Worship Mayor Harrison and Members of Council

FROM:

Robert Niewenhuizen, Director of Engineering and Public Works

PREPARED BY:

Darin Gerow, Manager of Roads & Parks

DATE:

June 2, 2023

SUBJECT:

SUPPLY OF BULK AVIATION FUELS AND RELATED DELIVERY SERVICES

STAFF RECOMMENDATION

THAT:

Council accept the proposal from PetroValue Products Canada Inc. at their quoted unit prices for the Supply of Bulk Aviation Fuels and Related Delivery Services for a term of three (3) years commencing July 1, 2023

BACKGROUND

The current contract for the Supply of Bulk Aviation Fuels and Related Delivery Services has expired. As such, a Request for Proposal (RFP) was issued and advertised on BC Bid and sent to four (4) suppliers. The RFP closed on Thursday May 18, 2023 at which time only one (1) proposal was received. Staff have reviewed the proposal with conformance with the RFP documents. The cost summary is as follows:

AvGas 100LL

Contractor	Base Mark-up Price	Service and Delivery Charges	Other Charges	Total (before Taxes)
PetroValue Products Canada.	\$0.02	\$0.09	\$0.00	\$0.11

Jet A1

Contractor	Base Mark-up Price	Service and Delivery Charges	Other Charges	Total (before Taxes)
PetroValue Products Canada.	\$0.02	\$0.08	\$0.00	\$0.10

The cost of bulk fuel (rack rate) is highly variable because it is based on crude oil prices and is established by the refineries on a weekly basis. The proposals identified the vendor's mark up prices, service and delivery costs and other charges, which will be added to the rack rate and then invoiced to the City following delivery. The vendor will be required to provide the City with proof of actual per liter bulk aviation fuel costs when the vendor invoices the city.

PetroValues proposal demonstrated a commitment to meeting the fuel supply demands of the Shuswap Regional Airport in a safe and responsive manner. The City has been purchasing fuel

from PetroValue since 2015 and staff have no concerns with awarding the contract to this company again.

Staff are recommending that the contract be awarded to PetroValue Products Canada Inc., in accordance with their proposal for a term of three (3) years, expiring June 30, 2025.

Respectfully submitted,

Robert Niewenhuizen, AScT

Director of Engineering & Public Works

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Item 9.6

CITY OF SALMON ARM

Date: June 12, 2023

Moved: Councillor

Seconded: Councillor

THAT: the 2023 Budget contained in the 2023 – 2027 Financial Plan be amended to reallocate \$23,500.00 additional funding to the Zone 2 Pump Station Design, funded from the 10 Avenue SE (30 – 33 Street SE) Upgrade;

AND THAT: Council approve the award of the Zone 2 Pump Station 100% Design to WSP Canada Inc. for the total estimated price of \$21,049.00 plus taxes as applicable.



File: 2023-43

TO:

His Worship Mayor Harrison and Members of Council

FROM:

Robert Niewenhuizen, Director of Engineering and Public Works

PREPARED BY:

Gabriel Bau, City Engineer

DATE:

June 12, 2023

SUBJECT:

ZONE 2 PUMP STATION DESIGN - BUDGET AMENDMENT

STAFF RECOMMENDATION

THAT:

The 2023 Budget contained in the 2023 to 2027 Financial Plan be amended to reallocate \$23,500.00 additional funding to the Zone 2 Pump Station Design, funded from:

• 10 Avenue SE (30 - 33 St SE) Upgrade

AND THAT:

Council approve the award of the Zone 2 Pump Station 100% Design to WSP Canada Inc., for the total estimated price of \$21,049.00 plus taxes as

applicable.

BACKGROUND

The Zone 2 Pump Station is located in Canoe immediately northeast of the Water Treatment Plant on the lakeside of the CP Rail tracks. This station was put into service in 1970. Reconstruction is necessary to meet current water demands, and reduce risk of flooding and equipment obsolescence.

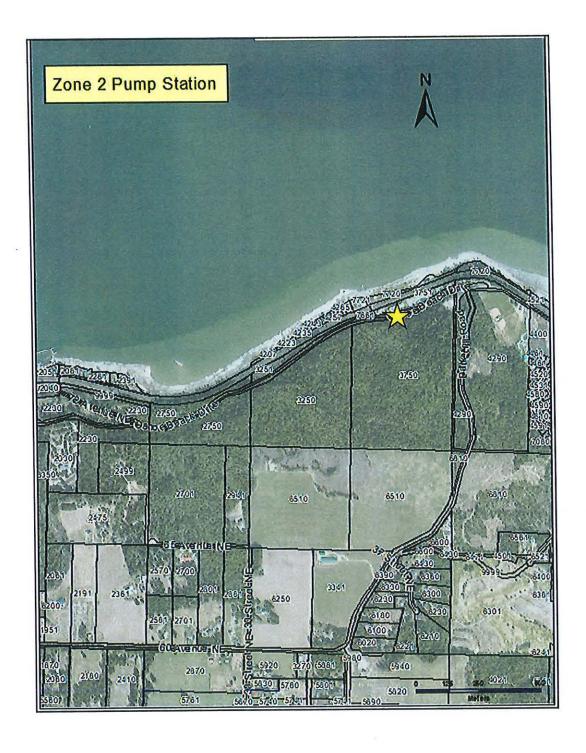
As of May 2023, WSP has completed the 90% detail design of the Zone 2 pump station. The final 10% design involve getting the water works approval from Interior Health, the building permit from the City, and BC Hydro connection. Once this part of the design is completed, the total cost for construction will be adjusted.

WSP was selected in 2021 as part of a competitive process to provide consulting services regarding the design and construction of the Zone 2 pump station. WSP fee to move the project from 90 to 100% included in their original quote is \$21,049.00. WSP upholds their fee. In order to cover this cost (plus contingency), additional funds are required. Staff recommends to transfer funds from the 10 Avenue SE (30 - 33 St SE) Upgrade project.

10 Avenue SE (30 – 33 St SE) Upgrade project could be retendered this year, subject to available funds. Original approved budget was \$335,000. Council approved to transfer \$80,000 to 8 Ave NE Watermain construction in May 2023, and remaining available budget is \$255,000. Staff budget estimate required to proceed with 10 Avenue SE Upgrade project based on tenders received is approximately \$695,000.

On another note, a separate staff report will be provided to Council to move the project into the construction phase, and staff plans to recommend to proceed with an Alternative Approval Process once the design is completed. The 2023 approved construction budget for the Zone 2

Appendix A – ZONE 2 PUMP STATION



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Item 9.7

CITY OF SALMON ARM

Date: June 12, 2023

Environmental Advisory Committee Citizen at Large Membership Appointment

SALMONARM

TO:

Mayor Harrison & Members of Council

DATE:

June 5, 2023

FROM:

Erin Jackson, Chief Administrative Officer

PREPARED BY:

Barb Puddifant, Executive Assistant

SUBJECT:

Environmental Advisory Committee - Citizen at Large membership

appointment

Background:

The Environmental Advisory Committee membership currently includes 13 voting members; one (1) Council representative, three (3) Citizens at Large, a member representing each of the Forest and Agricultural Industries, members from five (5) organizations and from the Adams Lake and Neskonlith Bands. The current term of the three Citizen at Large members will expire December 31, 2023.

One of the Committee's three appointed Citizens at Large, Michael Simpson, has stepped down and will not be completing his term. Staff has advertised this position in the newspaper, on the City website, social media and in the lobby of City Hall. Two (2) applications (attached as Appendix A) were received by the June 2, 2023 closing date, from the following individuals:

Sarah Johnson Bob Demulder

It is recommended that Council appoint one Citizen at Large to complete the existing term.

The Committee also has a vacancy for a member from the Agricultural Industry. The application deadline for this position is June 23, 2023.

Respectfully submitted,

Erin ackson

Chief Administrative Officer

Item 10.1

CITY OF SALMON ARM

Date: June 12, 2023

Moved: Councillor

Seconded: Councillor

THAT: the Bylaw entitled City of Salmon Arm Zoning Amendment Bylaw No. 4579 be read a first and second time.

[ZON-1264; Brentwell Construction Ltd./Crevier, L. & S.; 31 4 Street SE; Text Amendment; Addition to Definitions and to R-5 (High Density Residential Zone)]

CITY OF SALMONARM

TO:

His Worship Mayor Harrison and Members of Council

DATE:

May 25, 2023

SUBJECT:

Zoning Bylaw Text Amendment Application No. 1264 **Development Variance Permit Application No. 582**

Legal:

Lot 3, Block 1, Section 14, Township 20, Range 10, W6M KDYD, Plan 936

Civic: 31 - 4 Street SE

Owner/Applicant: Brentwell Construction Ltd, Crevier, L. A. & S. P.

MOTION FOR CONSIDERATION

THAT:

A bylaw be prepared for Council's consideration, adoption of which would amend Zoning Bylaw No. 2303 as follows:

1) Amend Section 2.2 - Definitions - Secondary Suite - e) and f) to read:

e) must be located within a building or portion of a building of residential occupancy; and

f) must be located within a building or portion of a building where both dwelling units constitute a single real estate entity.

2) Amend the R-5 Zone - Section 10.3.13 to add "Secondary Suite" as a permitted accessory use.

AND THAT:

Final Reading of the Bylaw be withheld subject to Ministry of Transportation and Infrastructure approval.

AND FURTHER THAT: Development Variance Permit No. 582 be authorized for issuance for Lot 3. Block 1, Section 14, Township 20, Range 10, W6M KDYD, Plan 936 to vary provisions of Zoning Bylaw No. 2303 - Appendix 1, Table A1-1 - Multi-Family R-5 & Suite – reduce the number of required off-street parking spaces from five (5) to four (4).

STAFF RECOMMENDATION

THAT:

The motion for consideration be adopted.

PROPOSAL

The purpose of these applications is to amend the Zoning Bylaw to accommodate the development of secondary suites within a duplex, and address on-site parking requirements. The Zoning Bylaw amendments would be applicable to all R-5 Zone parcels, while the variance for parking is isolated to the subject parcel.

BACKGROUND

The subject parcel is located at 31 – 4 Street SE, just south of Fletcher Park (Appendix 1). It is designated High Density Residential (HR) in the City's Official Community Plan (OCP) and zoned R-5 (High Density Residential) in the Zoning Bylaw (Appendix 2 and 3). The parcel is approximately 460 square metres in area, and features a recently developed duplex building (site photos attached as Appendix 4).

The Zoning Map attached shows the mix of zones in the immediate area, predominantly Residential (R-1, R-5 and R-8), with nearby institutional and Commercial zones further to the north, west and east. Land uses adjacent to the subject parcel include the following:

North: Residential land (R-1 Single Family Residential) South: Residential land (R-5 Multi Family Residential)

East: Road (4 Street SE) and P-3 (Institutional) land beyond

West: Residential land (R-1 Single Family Residential)

Section 8.4.46 of the OCP states that *duplex* development that is not part of a multiple family development is exempt from a form and character residential development permit application.

OCP POLICY

Within the OCP, the subject parcel is designated High Density Residential (HR) and is in Residential Development Area A, considered the highest priority for development. The proposed zoning amendment would align with the OCP's Urban Residential Objectives listed in Section 8.2 and the Urban Residential Policies listed in Section 8.3, including providing a variety of housing types, housing options, and supporting compact communities. In terms of siting, the proposal appears aligned with OCP Siting Policies under Section 8.3.19, including good access to transportation routes, recreation, community services, and utility servicing.

Secondary Suites

Policy 8.3.25 of the OCP provides for the consideration of secondary suites in all Residential designated areas via a rezoning application, subject to compliance with the Zoning Bylaw and the BC Building Code.

COMMENTS

Ministry of Transportation & Infrastructure

MOTI has granted preliminary approval (Appendix 5). Final Reading is subject to MOTI approval.

Engineering Department

No Concerns. Recommendation of support for requested parking variance. Servicing information provided to applicant in advance of development (Appendix 6).

Public Consultation

Pursuant to the *Local Government Act*, Zoning Bylaw, and Development Variance Permit Procedures Bylaw notices are mailed to land owners within a 30m radius of the application. The notices outline the proposal and advises those with an interest in the proposal to provide written submission prior to the Hearing and information regarding attending the Hearing. Further to the Zoning Bylaw amendment, newspaper ads are placed in two editions of the local paper in advance of the Statutory Public Hearing. It is expected that the Hearings for these applications will be held on June 26, 2023.

Planning Department

BC Building Code Changes

As per Appendix 7, effective December 2019 the BC Building Code (BCBC) adopted changes to allow for secondary suites in more building types (other than single detached dwellings), providing additional options for land use planning. Examples of building types where the BCBC allows for suites include

townhouse-style developments (including duplexes) where a dwelling and its suite are separated from other parts of the building by a vertical fire separation. The BCBC governs how suites are built and does not allow for the contravention of local land use bylaws. Amending the Zoning Bylaw as proposed below would provide the City with additional housing options.

In order to align with the current BCBC and allow for suites to be an option within the R-5 Zone (and others), Staff propose amendments to the definition of Secondary Suite. The current definition reads as such:

SECONDARY SUITE means a dwelling unit conforming to the Building Regulations of British Columbia which is accessory to the principal dwelling unit and must meet the following criteria:

- a) cannot exceed a maximum floor space of 90 square metres (968.8 square feet);
- b) cannot exceed a maximum of 40% of habitable floor space of the building;
- c) must have a separate entrance;
- d) must be an integral part of the building and have at least one heated wall or floor in common with the principal dwelling unit;
- e) must be located within a building of residential occupancy containing only one other principal dwelling unit; and
- f) must be located in and part of a building which is a single real estate entity.

As the current definition is specific to a suite within a single family dwelling, the proposed changes would allow for suites within additional building types as in bold and underlined below:

SECONDARY SUITE means a dwelling unit conforming to the Building Regulations of British Columbia which is accessory to the principal dwelling unit and must meet the following criteria:

- a) cannot exceed a maximum floor space of 90 square metres (968.8 square feet);
- b) cannot exceed a maximum of 40% of habitable floor space of the single real estate entity;
- c) must have a separate entrance;
- d) must be an integral part of the building and have at least one heated wall or floor in common with the principal dwelling unit or single real estate entity;
- e) must be located within a building or portion of a building of residential occupancy; and
- f) must be located within a building or portion of a building where both dwelling units constitute a single real estate entity.

Staff consider the addition of *secondary suite* as an accessory use in the R-5 Zone to be a positive option, allowing an additional housing type and an alternative for increased density on smaller residential parcels, which would otherwise require some form of consolidation with adjacent parcels in order to achieve a developable minimum parcel area. Given housing market trends and the small lot sizes in the High Density Residential designated city centre area, staff believe it is reasonable to allow for the inclusion of an option for secondary suites within the R-5 Zone, which may not have timely potential for consolidation to larger parcel sizes.

In consideration of the subject parcel, the surrounding neighbourhood has been undergoing slow redevelopment with a mix of old and new single family housing, newer multi-family development, as well as institutional and commercial development. The subject parcel is located in an area well-suited for higher density residential development featuring sidewalks and transit routes, within close walking distance of the City centre. As noted, the Residential — High Density (HD) designation in the City's Official Community Plan (OCP) supports the proposed development scenario, which in the opinion of staff aligns with broad OCP policies.

The proposal also aligns with the strategic themes identified in the Salmon Arm Community Housing Strategy considering density and diversity that fits with the character of the community, and developing opportunities to address rental housing needs. Within the Community Housing Strategy, Duplex, Row House, and Semi-Detached Housing accounted for 18% of dwelling types within Salmon Arm (2016).

The maximum residential density permitted under R-5 zoning is 100 dwelling units per hectare of land. As the subject property is 0.046 hectares in area, the maximum permitted density would be 4 dwelling units assuming: 1) the present gross areas of the subject parcel; and 2) no density bonus. With a density

bonus under R-5 zoning, the maximum density is 130 units per hectare, or 5 units on 0.046 hectares, with a height increase to 15 m. All that being said, the constraints presented by the small parcel area of the subject parcel limits the development potential to less than 5 units.

Table 1 - R-5 Zoning Analysis (0.046 hectare area)

	R-5 Permitted/Required	R-5 with Bonus	Proposed
Density	4 units	5 units	2 units + 2 Suites
Height	12 m	15 m	8.8 m
Parcel Coverage	55 %	70 %	35%
Setback – front	5 m	5 m	8.8 m
Setback – interior side	2.4 m - 2.0 m (VP-521)	2.4 m - 2.0 m (VP-521)	2.0 m (VP-521)
Setback – rear	5 m	5 m	5.6 m
Parking	5	5/6	4
Small Car Spaces	20 % (1)	20 % (1)	n/a

It is important to note that the building on the subject parcel exists and is not under application. The R-5 zoning and interior side parcel line variances from 2.4m to 2m were approved at the pre-development stage in 2020 (ZON-1191 and VP-521). Staff are of the opinion that the proposed development of suites within the existing building should align well with the residential development to the area.

Development Cost Charges

Staff note that consistent with the Development Cost Charge Bylaw, secondary suites within any single real estate entity are exempt from DCCs.

Parking Variance

With respect to parking requirements relative to the proposed development concept, a 2-unit development within the R-5 Zone with 2 secondary suites would be required to provide 5 parking stalls. 4 parking spaces are proposed (Appendix 8). The provision of on-site parking is practical and necessary, as the opportunity for on-street parking at this site is somewhat limited, however staff note public parking options along Okanagan Avenue and feel that the requested reduction is reasonable and manageable at this downtown location.

CONCLUSION

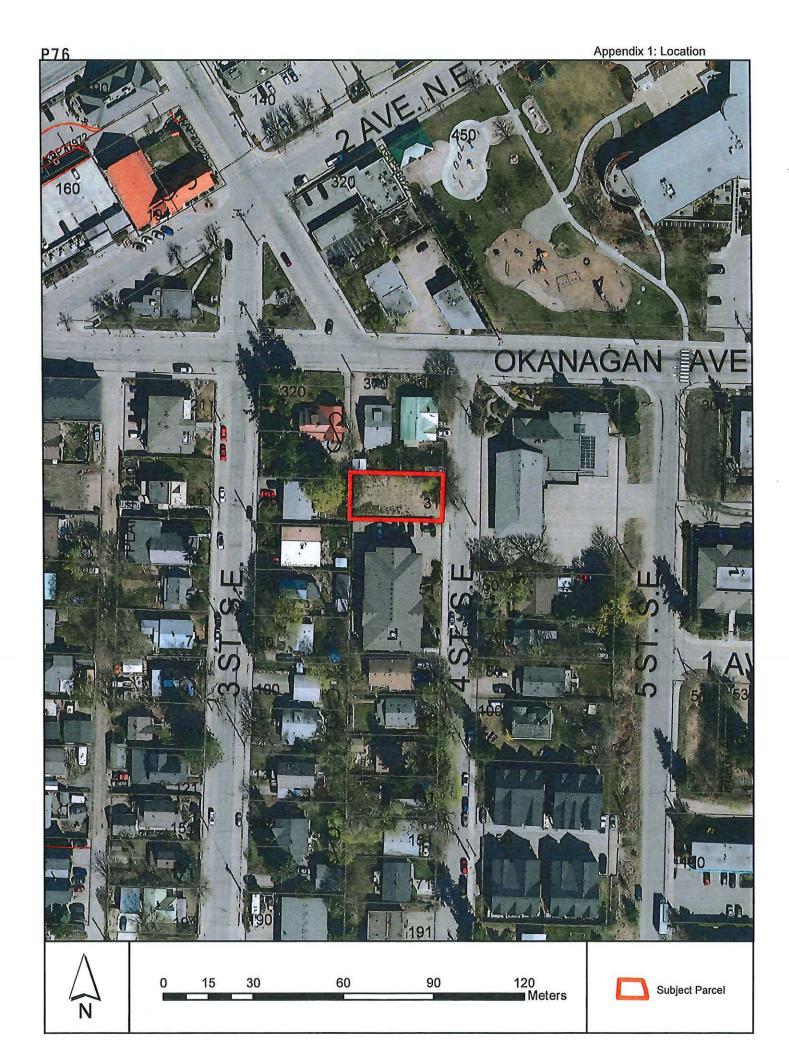
Staff view the proposed Zoning Bylaw amendments as presented to be consistent with OCP residential objectives and policy, as well as the Community Housing Strategy. The additions proposed to the Zoning Bylaw serve to clarify municipal policy, support housing diversity in the city centre area, and provide opportunity for an additional housing format and purpose built rentals supported by updates to the BC Building Code. The proposed Zoning Bylaw amendments and the variance for parking reduction are supported by staff.

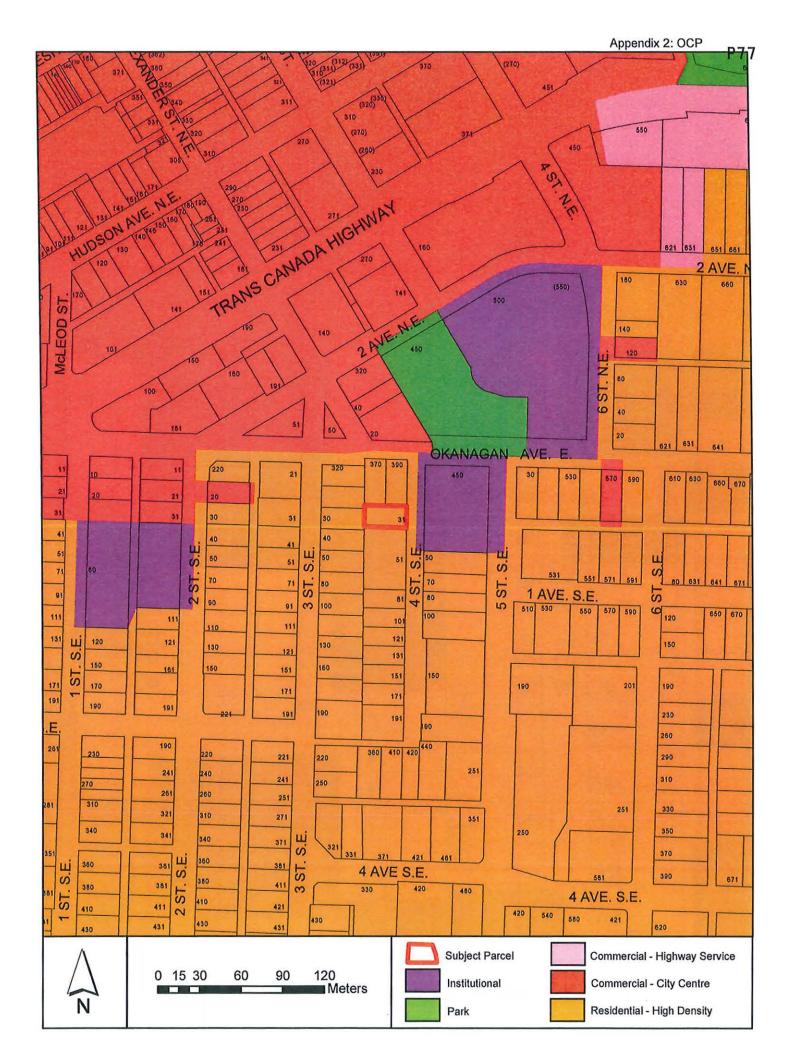
While this proposal relates to the R-5 Zone, if Council wishes to create similar provisions for secondary suites in the R-2 and R-4 Zones, Council could direct Staff to prepare an additional Zoning Bylaw Amendment.

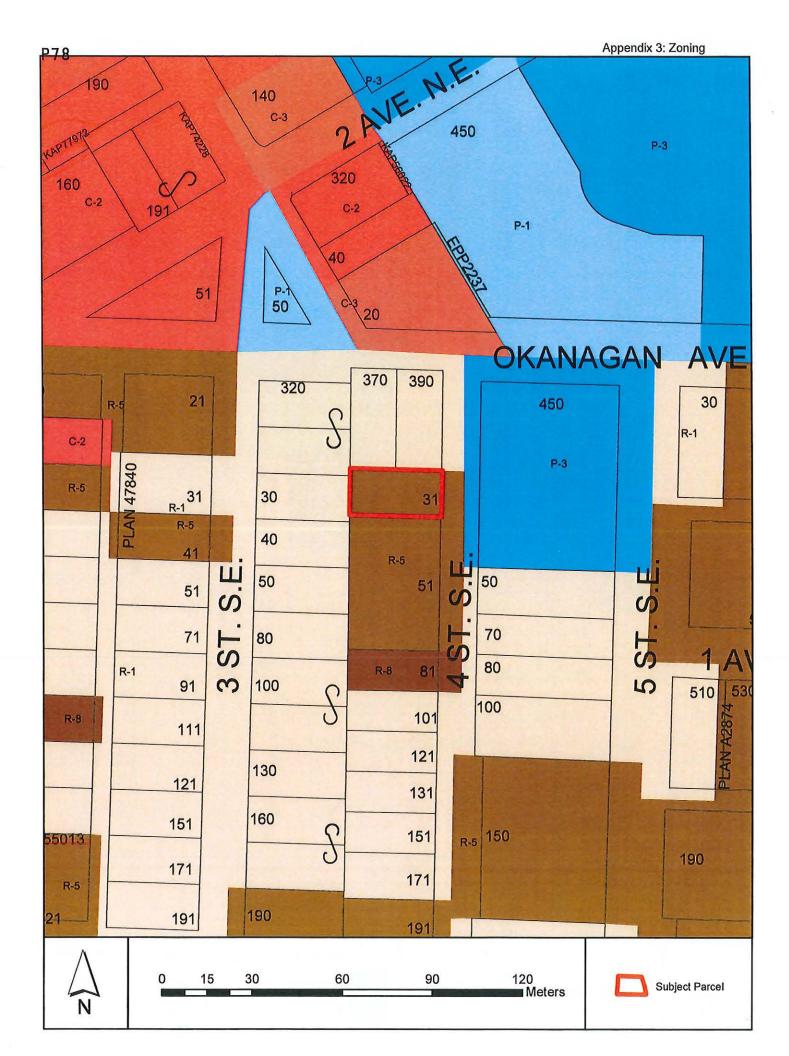
Prepared by: Chris Larson, MCIP, RPP

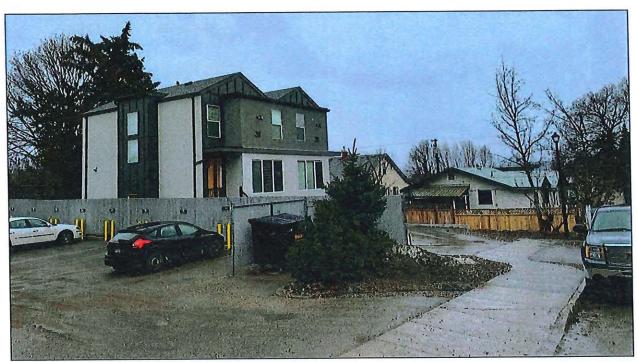
Senior Planner

Reviewed by: Gary Buxton, MCIP, RPP Director of Planning & Community Services

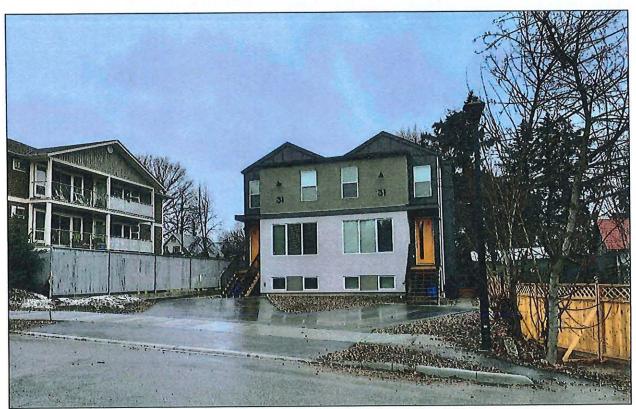








View of subject parcel northwest from 4 Street SE.



View of subject parcel southeast from 4 Street SE.

Your File #: ZON-1264

BL4579

eDAS File #: 2023-01563

Date: Apr/03/2023

City of Salmon Arm 500 2nd Avenue NE PO Box 40 Salmon Arm, BC V1E 4N2 Canada

Re: Proposed Bylaw BL4579 for:

PID 011-894-504, LOT 3 BLOCK 1 SECTION 14 TOWNSHIP 20 RANGE 10 WEST OF THE 6TH MERIDIAN KAMLOOPS DIVISION YALE DISTRICT PLAN 936

Preliminary Approval is granted for the Bylaw Text Amendment for one year pursuant to section 52(3)(a) of the *Transportation Act*.

If you have any questions please feel free to call Beth Bahm at (778) 576-1114. Yours truly,

Gl. Valu.

Beth Bahm Development Officer

Local District Address

Salmon Arm Area Office

Bag 100 850C 16th Street NE Salmon Arm, BC V1E 4S4 Canada

Phone: (250) 712-3660 Fax: (250) 833-3380

SALMONARM

Memorandum from the Engineering and Public Works Department

TO:

Director of Development Services

DATE:

May 18, 2023

PREPARED BY:

Chris Moore, Engineering Assistant

APPLICANT:

Brentwell Ventures Ltd / S. & L. Crevier

SUBJECT:

ZONING AMENDMENT APPLICATION FILE NO. ZON-1264 Bylaw No. 4579

SUBDIVISION (STRATA) APPLICATION FILE NO. SUB-23.02

DEVELOPMENT VARIANCE PERMIT APPLICATION FILE NO. VP-582

LEGAL:

Lot 3, Block 1, Section 14, Township 20, Range 10,

W6M, KDYD, Plan 936

CIVIC:

31 - 4 Street SE

Further to your referral dated March 30, 2023, we provide the following servicing information.

Comments are based on the Subdivision/Development as proposed in the referral. If the development plans for the property change significantly, comments below may change

General:

- 1. Full municipal services are required as noted herein. Owner / Developer to comply fully with the requirements of the Subdivision and Development Services Bylaw No 4163. Notwithstanding the comments contained in this referral, it is the applicant's responsibility to ensure these standards are met.
- Comments provided below reflect the best available information. Detailed engineering data or other information not available at this time, may change the contents of these comments.
- 3. Property under the control and jurisdiction of the municipality shall be reinstated to City satisfaction.
- Owner / Developer will be responsible for all costs incurred by the City of Salmon Arm during construction and inspections. This amount may be required prior to construction.

Roads / Access:

- 4 Street SE, on the subject property's eastern boundary, is designated as an Urban Local Road standard, requiring 20.0m road dedication (10.0m on either side of road centerline). Available records indicate that an additional 2.919m road dedication is required (to be confirmed by a BCLS).
- 2. 4 Street SE is currently constructed to a Local Road standard. No further upgrading is required.
- 3. The applicant is requesting to reduce the number of parking stalls from five to four. 4 Street SE is located in the downtown area, with easy access by foot to many facilities. There are multiple locations on and adjacent to 4 Street where parking is available. Staff do not consider the reduction in onsite parking by one parking stall to be significant and therefore the Engineering Department recommends that the request to reduce the number of parking stalls from five to four be approved.

ZONING AMENDMENT APPLICATION FILE NO. ZON-1264 SUBDIVISION (STRATA) APPLICATION FILE NO. SUB-23.02 VARIANCE PERMIT APPLICATION FILE NO. VP-582 May 18, 2023 Page 2

Water:

- 1. The subject property fronts a 200mm diameter Zone 1 watermain on 4 Street SE. No upgrades will be required at this time.
- 2. Records indicate that the existing property is serviced by a 50mm diameter service from the 200mm diameter watermain on 4 Street SE with one water meter installed in each property. No further upgrades are required.
- 3. The subject property is in an area with sufficient fire flows and pressures according to the 2011 Water Study (OD&K 2012).
- 4. Fire protection requirements to be confirmed with the Building Department and Fire Department.

Sanitary:

- 1. The subject property fronts a 200mm diameter sanitary sewer on 4 Street SE. No upgrades will be required at this time.
- 2. Records indicate that the existing property is serviced by a 100mm service from the sanitary sewer on 4 Street SE. No further upgrades are required.

Drainage:

- 1. The subject property fronts a 250mm diameter storm sewer on 4 Street SE. No upgrades will be required at this time.
- 2. Records indicate that the existing property is serviced by a 150mm service from the sanitary sewer on 4 Street SE. No further upgrades are required.

Chris Moore

Engineering Assistant

Gabriel Bau P.Eng.

City Engineer

Building and Safety Standards Branch

PO Box 9844 Stn Prov Govt Victoria BC V8W 9T2

Email: <u>building.safety@gov.bc.ca</u>
Website: www.gov.bc.ca/buildingcodes



No. B19-05 December 12, 2019

Secondary Suites, Changes to Design and Construction Requirements British Columbia Building Code 2018 Revision 2

The purpose of this bulletin is to provide information about Revision 2 changes to the British Columbia Building Code 2018 (BC Code) for the design and construction of new secondary suites. Changes are effective December 12, 2019 and apply to projects for which a permit is applied for on or after this date.

A separate bulletin B19-04 discusses how the BC Code changes to secondary suite requirements may impact land use planning.

Background

The BC Code introduced requirements for secondary suites in 1995. Therefore, the National Building Code (National Code) provisions were not adopted when they were first published in 2010. The BC Code requirements have not been substantially updated since 1995.

The adopted changes:

- harmonize with the form and approach of the National Code, and most of its technical requirements:
- incorporate historical requirements from the BC Code that provide a higher level of health and safety; and
- adapt some requirements based on application to existing buildings and to coordinate with other requirements.

The Province of British Columbia (B.C.) is working to remove barriers to secondary housing forms. These mid-cycle revisions to the BC Code aim to increase options for the design and construction of new secondary suites in buildings. Allowing the construction of more secondary suites in more building types helps create more housing units while providing an acceptable level of health and fire safety to occupants. These changes provide local authorities with more options for land use planning.

The definition of secondary suite in the BC Code is not to be equated with similar terms in land use bylaws. Land use bylaws may define or use the term secondary suite to describe housing types. The term might carry a different meaning in bylaw than the meaning assigned in the BC Code. It is often appropriate to set aside the BC Code terms when considering land use and zoning matters.

Including solutions for design and construction of secondary suites in the BC Code does not allow owners to contravene land use bylaws. Land use bylaws govern where secondary suites are permitted whereas the BC Code governs how they are to be built. **Before constructing a secondary suite, check with the local authority.**

The BC Code governs the design and construction of new secondary suites including alterations to existing buildings to add a secondary suite as well as new work or alterations within a secondary



Building and Safety Standards Branch

PO Box 9844 Stn Prov Govt Victoria BC V8W 9T2

Email: <u>building.safety@gov.bc.ca</u>
Website: <u>www.gov.bc.ca/buildingcodes</u>

suite. It is not intended that the BC Code be used as evaluation metrics or retroactive construction requirements for existing secondary suites.

Changes to the Definition of Secondary Suites

The BC Code previously defined a secondary suite as "a dwelling unit

- having a total floor space of not more than 90 m² in area,
- having a floor space less than 40% of the habitable space of the building,
- located within a building of residential occupancy containing only one other dwelling unit, and
- located in and part of a building which is a single real estate entity."

The **new** definition states that a *secondary suite* means "a self-contained *dwelling unit* located within a *building* or portion of a *building*

- completely separated from other parts of the building by a vertical fire separation that has a
 fire-resistance rating of not less than 1 h and extends from the ground or lowermost
 assembly continuously through or adjacent to all storeys and spaces including service
 spaces of the separated portions,
- of only residential occupancy that contains only one other dwelling unit and common spaces, and
- where both dwelling units constitute a single real estate entity."

The previous definition placed limits on floor space as a mechanism to moderate fire load and occupant load. This revision **discontinues the prescribed floor space amounts and percentage distribution**. New requirements as well as some existing and revised requirements, moderate risks attributed to fire load and occupant load as compensatory measures. **Check with the local authority on floor space allowances.**

It cannot be assumed that the owner occupies one of the dwelling units, nor that the occupant of the dwelling unit has direct control over the secondary suite or use by its occupants as a means of increasing the level of safety. A secondary suite is not a subordinate suite to a principle suite. However, there are health and safety opportunities and benefits that come with a house with a secondary suite having single ownership that may not be available for units with separate ownership. Typical requirements for separately-owned dwelling units have been adjusted to accommodate the interest, coordination, and maintenance that is available with single ownership.

In addition, this change adopts and adapts permissions in the National Code to allow the construction of secondary suites in a building that may contain more than one dwelling unit or other occupancy. These permissions are limited and only apply where a dwelling unit and its secondary suite are completely separated from other parts of the building with continuous vertical fire-rated construction. These permissions do not apply where any portion of the dwelling unit and its secondary suite are above or below another dwelling unit or other occupancy.

Examples of buildings where the BC Code allows the construction of secondary suites include sideby-side duplexes and also row houses where a vertical fire separation separates the portion with the dwelling unit with the secondary suite from the remainder of the building. Examples where secondary suites are not permitted are up/down duplexes and apartment buildings where dwelling units are above or below other dwelling units.

The contents of this Bulletin are not intended to be provided as legal advice and should not be relied upon as legal advice. For further information, contact the Building and Safety Standards Branch.

Appendix 7: BCBC Update Information Bulletin

Building and Safety Standards Branch

PO Box 9844 Stn Prov Govt Victoria BC V8W 9T2

Email: building.safety@gov.bc.ca Website: www.gov.bc.ca/buildingcodes

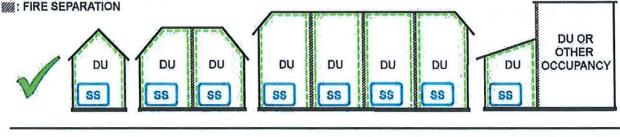


The following illustration provides examples of the types of buildings in which the BC Code allows the construction of secondary suites and where secondary suites are not permitted. Before constructing a secondary suite, check with the local authority.

Local government contact information is available here: http://www.civicinfo.bc.ca/directories.



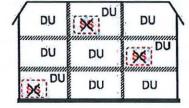
SINGLE REAL ESTATE ENTITY

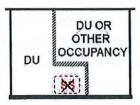








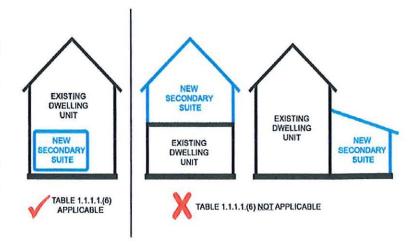




Changes to Alterations to Existing Buildings to Add a Secondary Suite

Some previous requirements were based on the premise of 'finishing' an unfinished basement and dealing with the hardships that may exist when working within the confines of an existing home. Some accommodation for when existing construction poses a practical or financial hardship is necessary to avoid abandoning projects or creating disincentives to permits and inspections.

This change distinguishes requirements for new construction with no existing construction imposing hardship - from requirements for alterations to existing buildings where existing construction poses a hardship. Division A provides Table 1.1.1.(6) containing Alternative Compliance Methods that are considered adequate but may only be used where existing construction acts as a practical barrier to compliance with the acceptable solutions in Division B of the BC Code.





Brentwell Construction Ltd. 1009 Kalamalka Lake Rd. Vernon, BC V1T 6V4 August 14, 2020

City of Salmon Arm 500 2 Avenue NE Salmon Arm, BC V1E 4N2

Re: Variance Rationale - 31 4th Street SE

We are requesting to have 4 parking stalls for the duplex rather than the amount required by the City of Salmon Arm. With the location being in close proximity to downtown, we believe that tenants will take advantage of this and walk or bike to and from the duplex which would minimize the use for more than one vehicle per unit/ suite. There is also off-street parking on 4 Street and Okanagan Avenue that could be used, without negatively impacting neighboring dwellings.

With rental properties in such high demand in the area, we hope that the City can allow this variance.

Thank you,
Brentwell Construction Ltd.

CITY OF SALMON ARM

BYLAW NO. 4579

A bylaw to amend "District of Salmon Arm Zoning Bylaw No. 2303"

WHEREAS notice of a Public Hearing to be held by the Council of the City of Salmon Arm in the Council Chambers at City Hall, 500 – 2 Avenue NE, Salmon Arm, British Columbia and by electronic means, on June 26, 2023 at the hour of 7:00 p.m. was published in the and , 2023 issues of the Salmon Arm Observer;

AND WHEREAS the said Public Hearing was duly held at the time and place above mentioned;

NOW THEREFORE the Council of the City of Salmon Arm in open meeting assembled enacts as follows:

- 1. "District of Salmon Arm Zoning Bylaw No. 2303" is hereby amended as follows:
 - a) Section 2.2 Definitions Secondary Suite e) and f) to read:
 - e) Must be located within a building or portion of a building of residential occupancy; and
 - f) Must be located within a building or portion of building where both dwelling units constitute a single real estate entity.
 - b) Amend the R-5 Zone Section 10.3.13 to add "Secondary Suite" as a permitted use.

2. SEVERABILITY

If any part, section, sub-section, clause of this bylaw for any reason is held to be invalid by the decisions of a Court of competent jurisdiction, the invalid portion shall be severed and the decisions that it is invalid shall not affect the validity of the remaining portions of this bylaw.

3. ENACTMENT

Any enactment referred to herein is a reference to an enactment of British Columbia and regulations thereto as amended, revised, consolidated or replaced from time to time.

4. EFFECTIVE DATE

CORPORATE OFFICER

This bylaw shall come into full force and e	effect upon adoption of same.
---	-------------------------------

5.	CITATION
v.	CITATIOIA

This bylaw may be cited as "City of Salmon Arm Zoning Amendment Bylaw No. 4579"				
READ A FIRST TIME THIS	DAYOF	2023		
READ A SECOND TIME THIS	DAY OF	2023		
READ A THIRD TIME THIS	DAYOF	2023		
APPROVED PURSUANT TO SECON THE DAY OF	TION 52 (3) (a) OF THE TRA , 2023	ANSPORTATION ACT		
	For Minister of Tra	ansportation & Infrastructure		
ADOPTED BY COUNCIL THIS	DAY OF	2023		
		MAYOR		

Item 10.2

CITY OF SALMON ARM

Date: June 12, 2023

Moved: Councillor

Seconded: Councillor

THAT: the Bylaw entitled City of Salmon Arm Zoning Amendment Bylaw No. 4590 be read a first and second time.

[ZON-1269; City of Salmon Arm; Text Amendment; Accessible Parking Regulations]

CITY OF SALMONARM

To:

His Worship Mayor Harrison and Members of Council

Date:

May 25, 2023

Subject:

Zoning Bylaw Amendment Application No. 1269

Accessible Parking Regulations

STAFF RECOMMENDATION

THAT:

A bylaw be prepared for Council's consideration, amending Zoning Bylaw No. 2303, as follows, by adding:

i) To Section 2.0 Definitions, after "Accessory Use" and before "Accommodation Unit", the following:

Accessible Car Space means a car parking space designated for individuals with mobility limitations, who hold a valid accessible parking permit.

Accessible Van Space means a parking space designated for those with mobility issues designed to allow room for people to load or unload a wheelchair, scooter, walker or similar device that is used to transport a person who has limited ability and hold a valid accessible parking permit.

Accessible Parking Stall means either an Accessible Car Space or an Accessible Van Space.

ii) After Section 11 of Appendix I: Off - Street Parking and Loading, the following:

12. Accessible Parking Stalls

- .1 Accessible Car Spaces are a minimum of 5.8m depth x 2.4m width. Accessible Van Spaces are a minimum of 5.8m depth x 3.3m width, with an additional minimum aisle width of 1.5m. The additional aisle may be shared between neighbouring Accessible Van Spaces.
- .2 Accessible Parking Stalls must be:
 - (a) clearly identified by both paint markings on the parking space and a freestanding Sign in front of the space that is not less than 1.2 m above ground measured to the bottom of the Sign and incorporating the international symbol of accessibility for persons with disabilities. Accessible Van Spaces signage shall also include the words "van accessible";
 - (b) treated with a firm and slip-resistant surface;
 - (c) provided with a curb letdown from the shared access aisle to any raised pedestrian sidewalk that provides connectivity to the Building;

- (d) constructed with a slope not exceeding 2%; and
- (e) marked with high-colour-contrast diagonal pavement lines on the access aisle
- .3 Of the required stalls for all permitted uses, the minimum number of Accessible Parking Stalls shall be provided in accordance with the following table:

Total Number of Parking Spaces required	Total Number of Accessible Parking Stalls to be Provided	Accessible Car Spaces to be provided	Accessible Van spaces to be provided
0-5	0	0	0
6-25	1	1	0
26-50	3	2	1
51-100	4	3	1
100+	6	4	2

- .4 Should Accessible Parking Stalls be provided that are in addition to those in Section 12.3 then those Accessible Parking Stalls must be in addition to the required number of parking stalls.
- .5 Parking facilities that are used exclusively for buses, trucks, delivery vehicles, law enforcement vehicles, and vehicular impound are not required to include accessible spaces. However, if such lots are accessed by the public (e.g., impounded vehicle retrieval), one (1) Accessible Parking Stall is to be provided.

PURPOSE

To introduce Zoning Bylaw text amendments that would add accessible parking regulations into the Zoning Bylaw, in order to have enforceable minimum standards.

BACKGROUND

Prior to 2018 accessible parking regulations were addressed by the BC Building Code. However, with revisions to the BC Building Code, the specific parking regulations were removed. This was viewed as a way in which to harmonize the BC Building Code with the National Building Codes and standards. Prior to the Code changes in 2018, the Province communicated with local governments that the accessible parking regulations would be removed from the Code and if communities desired accessible parking regulations then those requirements would have to be included in the Zoning Bylaw (see Appendix 1). Under the previous regulations (BC Building Code requirements) if more than 50 parking spaces were required for a development, one of every 100 stalls had to be accessible with a minimum width of 3.7m. The City of Salmon Arm did not make the recommended changes to the Zoning Bylaw at that time. There are no current regulations governing accessible parking stalls.

In formulating the proposed amendments, staff researched information published by the Province and regulations of other communities. In 2020, the BC Office of Housing and Construction Standards published the *Building Accessibility Handbook*, an illustrated supplement to the BC Building Code. The *Building Accessibility Handbook* offers recommendations for accessible car spaces, location and signage (Appendix 2). The proposed amendments align with those recommendations in the *Building Accessibility Handbook*.

Staff also researched the accessible parking regulations for Kamloops, Kelowna, Vernon, Nelson and Victoria in an effort to find a consistent format or rationale to formulate a parking schedule. Each community bylaw considers the same general factors, including - number of car spaces, number of van spaces, dimensions of stalls, surfacing and identification of the stalls, and access to building. However, each community has a slightly different formula for the number of required stalls. The following table is a summary of accessible parking space requirements compared to the proposed accessible parking space scale.

Table 1. Community Comparison: Number of Required Accessible Parking Stalls

	Total Spaces Required: 0-5 Stalls (#of Accessible Car Space / # Accessible Van Spaces required)	Number of Total Spaces Required: 6-25 (#of Accessible Car Space / # Accessible Van Spaces required)	Number of Total Spaces Required: 26-50 (#of Accessible Car Space / # Accessible Van Spaces required)	Number of Total Spaces Required: 51-100 (#of Accessible Car Space / # Accessible Van Spaces required)	Number of Total Spaces Required: +100 (#of Accessible Car Space / # Accessible Van Spaces required)
Kelowna	0/0	1/0	2-3/1	3/1	Increases 1 stall per 100 stalls/2
Kamloops*	0/*	1/*	2/*	3-4/*	5-8 stalls until +200 then 2% of overall spaces
Nelson◆	1/0	2/0	3/0	4/0	Increases 1 stall for every 15 additional stalls
Victoria+	0	0/1	1/1	2-3/1	1 for every 25 stalls/scaled to increase as accessible car spaces increases

^{*}At least 50% of accessible spaces provided must be van accessible.

The proposed bylaw amendments touch on each of the above mentioned factors found in parking regulations of other municipalities as well as the Building Accessibility Handbook - stall type, stall dimensions, stall identification and design. It should be noted that the accessible parking spaces, as proposed, are not in addition to the required number of spaces, the accessible spaces are to be provided within the required total number of spaces. This aligns with the formulas of other communities mentioned previously. For example, if a development required 150 parking stalls, then four of those stalls would have to be accessible car spaces and three would have to be accessible van spaces for a total of seven spaces within the 150 overall parking space count.

The proposed changes to the Zoning Bylaw would provide consistency to development, in particular multifamily and commercial development. Effectively, the proposed amendments increase the required number of spaces from one of every 100 stalls to five (three accessible car stalls, 2 accessible van stalls) in 100 stalls and include location and signage details not required under the current regulations. The proposed amendments align more consistently with the current provincial guidelines and the regulations of other communities. Further, the proposed amendments account for increased demand of accessible parking that comes with population growth and the more inclusive design of buildings, infrastructure and amenities.

Melinda Smyrl, MCIP, RPP Planner

Gary Buxton, MCIP, RPP

Director of Planning and Community

Services

additional spaces required for health or hospital uses.

P93



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No. B18-09 December 17, 2018

Regulatory Changes to Accessible Parking Requirements

The purpose of this bulletin is to provide information about the removal of historical accessible parking requirements from the BC Building Code and resources to support local governments in regulating accessible parking in their bylaws.

Legislation

Part 14 of the *Local Government Act* [RSBC 2015] enables local governments and the Islands Trust to make decisions on planning and land use within their jurisdiction. Section 525 of the *Local Government Act* provides local governments with the authority to establish off-street parking requirements, including specific design standards for accessible parking.

The *Building Act* [SBC 2015] establishes the Province as the primary authority to establish building requirements. The *Building Act* was adopted to support consistency in the building regulatory system by eliminating the patchwork of building requirements that varied across the province. At the same time, the Province recognized that the need for consistency must be balanced with flexibility in order for local governments to meet specific community needs. Section 5 of the *Building Act* allows for such flexibility by providing local governments the authority to establish building requirements for matters identified as unrestricted by regulation.

There are two reasons for which a matter may be unrestricted under Section 5 of the Building Act:

- The matter is subject to a particular location or unique circumstance; therefore, the local government is best positioned to set the requirements; or
- A local government aims to achieve an objective under an existing statutory authority and the enacted building requirement is necessary to achieve that objective.

Background

In February 2016, the Province approved accessible parking spaces as an unrestricted matter under the *Building Act*, for which local governments could retain or establish their own requirements in bylaws. The Building and Safety Standards Branch distributed an information bulletin titled Building Act: Update for Local Governments to support local governments.

The Building and Safety Standards Branch consulted with stakeholders about accessibility requirements in the BC Building Code in February 2018. The consultation feedback on parking generally indicated that the BC Building Code's historical parking requirements were insufficient.

To address the regulatory overlap between the BC Building Code and municipal bylaws and in support of harmonizing the BC Building Code with the National Code, accessible parking provisions are not included in the BC Building Code 2018, which became effective December 10, 2018.



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Regulatory Change

The BC Building Code 2018 is harmonized with the National Building Code 2015, which does not include requirements for accessible parking spaces.

While previous editions of the BC Building Code did provide the minimum requirements for accessible parking in instances where off-street parking was either required by local government bylaw or provided voluntarily by the building owner, the regulatory overlap between the *Local Government Act* and the BC Building Code had the potential to cause confusion regarding which requirements should be followed. Removing historical accessible parking requirements from the BC Building Code 2018 clarifies that local governments are best suited to regulate accessible parking spaces according to their communities' needs. Local governments that do not already have their own accessible parking requirements in their bylaws may wish to consider amending their bylaws to incorporate accessible parking requirements.

The BC Building Code 2018 requires a greater level of building accessibility by combining the requirements of the National Building Code 2015 with BC's historical requirements. In aligning more closely with the National Building Code, the BC Building Code achieves greater consistency not only with the National Building Code, but also with codes from other Canadian jurisdictions.

Resources

Several resources are available to support enhancing accessible parking, as outlined below.

The <u>Accessible Design for the Built Environment standard</u> (CSA B651-18) provides guidance on accessible parking standards. Local governments who do not already regulate accessible parking may adopt these standards or establish requirements that work best for their communities.

The City of Ottawa developed <u>Accessibility Design Standards</u> to support the design of accessible on and off-street parking.

The <u>Accessibility for Ontarians with Disabilities Act</u>: Integrated Accessibility Standards includes requirements governing the design of public spaces in the built environment.

The Social Planning and Research Council, with input from various communities, developed an <u>Accessible Community Bylaw Guide</u>. For a sample Model Accessible Parking Bylaw, please review pages 72-25.

British Columbia Building Code 2018

Although accessible parking is no longer regulated by the BC Building Code, guidance to support local governments to establish accessible parking requirements in their bylaws is available in the Notes of the BC Building Code.

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Implications

Local governments that do not already have accessible parking requirements in their bylaws may wish to develop requirements that meet the specific needs of their communities. Bylaws with existing accessible parking requirements will continue to apply without overlap with the BC Building Code.

Local governments are best positioned to set accessible parking requirements based on the demographics, types of buildings developed, and the specific needs of their communities.

Communities without specific bylaw provisions will be unable to enforce minimum standards for accessible parking after December 10, 2018.

Scheme	BC Building Code 2012	BC Building Code 2018	
Local Government Bylaw with Accessible Parking Requirement	Local bylaw applies. Building owners must provide the minimum number of accessible parking spaces in the BC Building Code or, if accessible spaces are required in the local bylaw, the minimum number of accessible spaces in the bylaw.	Local bylaw applies.	
	Building owners must comply with which ever requirement is greater.		
Local Government Bylaw without Accessible Parking Requirement	Where parking is required by local government, or parking is provided voluntarily by the building owner, building owners are required to comply with the minimum accessibility requirements in the BC Building Code.	The 2012 accessibility requirements are provided in the Notes of the 2018 BC Building Code. Local governments can amend their bylaw to reproduce these requirements or to include their own. In the absence of accessible parking requirements in bylaws, local governments will be unable to enforce minimum standards for accessible parking.	
Code Provisions	One of every 100 spaces must be accessible when 50 or more spaces are provided. Minimum width of 3.7m required.	Guidance provided in the Notes of the BC Building Code.	

The contents of this Bulletin are not intended to be provided as legal advice and should not be relied upon as legal advice. For further information, contact the Building and Safety Standards Branch.



Building and Safety Standards Branch

PO Box 9844 Stn Prov Govt Victoria BC V8W 9T2 Email: <u>building.safety@gov.bc.ca</u> Website: <u>www.gov.bc.ca/buildingcodes</u>

More Information

Please direct any questions about developing new bylaws to:

Ministry of Municipal Affairs and Housing Planning and Land Use Management Branch

Telephone: 250-387-3394 Email: PLUM@gov.bc.ca

Please direct any questions about technical code requirements to:

Ministry of Municipal Affairs and Housing Building and Safety Standards Branch

Telephone: 250-387-3133

Email: Building.Safety@gov.bc.ca

Full text of Part 14 of the *Local Government Act* – Planning and Land Use Management: http://www.bclaws.ca/civix/document/id/complete/statreg/r15001 14

Full text of the Building Act:

http://www.bclaws.ca/civix/document/id/complete/statreg/15002#part1

Full text of the Accessibility for Ontarians with Disabilities Act: https://www.ontario.ca/laws/statute/05a11

For more information about the changes to accessibility requirements, please see technical bulletin 18-05: Accessibility in the British Columbia Building Code 2018.

Intent: To exempt certain areas of buildings

from the requirements of Sentence 3.8.2.3.(1),

which would otherwise require an accessible path of travel, on the basis that it is impractical

and onerous to provide access to and from

- 2) Except as required by Sentence (3), access is not required
- a) to service rooms.
- b) to elevator machine rooms,
- c) to janitor's rooms,
- d) to service spaces,
- e) to crawl spaces,
- f) to attic or roof spaces,
- g) reserved,
- h) reserved,
- i) within portions of a *floor area* with fixed seats in an *assembly occupancy* where those portions are not part of the *accessible* path of travel to spaces designated for wheelchair use,
- j) within floor levels of a suite of residential occupancy that are not at the same level as the entry level to the suite,
- k) reserved, or
- within those parts of a floor area that are not at the same level as the entry level, provided <u>facilities</u> and uses provided on any raised or sunken level are also <u>accessible</u> on the entry level.
- **3)** In an *assembly occupancy*, the number of spaces designated for wheelchair use within rooms or areas with fixed seats shall conform to Table 3.8.2.3. (See also Article 3.8.3.21. for additional requirements.)

same level as the entry level

Attributions [F74-OA2]

these areas.

Intent: To limit the probability of an insufficient number of spaces for manual wheelchairs, which could lead to people who use manual wheelchairs being excluded from certain rooms and areas.

Table 3.8.2.3.

Designated Wheelchair Spaces
Forming Part of Sentence 3.8.2.3.(3)

Number of Fixed Seats in Seating Area	Number of Spaces Required for Wheelchairs		
50 and under	2		
<u>51 – 150</u>	4		
<u>151 – 300</u>	5		
<u>3</u> 01 – 500	6		
501 – <u>5</u> 00 <u>0</u>	6, plus one additional space for each increment of up to 150 in excess of 501 fixed seats		
5 001 and over	36, plus one additional space for each increment of up to 200 in excess of 5 001 fixed seat		

The 2018 edition of the British Columbia Building Code has increased the ratio for required accessible viewing spaces.

3.8.2.4. Path of Travel to Storeys Served by Escalators and Moving Walks

1) In a *building* in which an escalator or inclined moving walk provides access to any floor level above or below the entrance floor level, an interior *accessible* path of travel shall also be provided to <u>those</u> floor levels. (See Note A-3.8.2.4.(1).)

A-3.8.2.4.(1) Path of Travel to Storeys Served by Escalators and Moving Walks.

In some buildings, escalators and inclined moving walks are installed to provide transportation from one floor level to another floor level so as to increase the capacity to move large numbers of persons. Some buildings located on a sloping site are accessible from street level on more than one storey and an escalator or inclined moving walk is provided for internal movement from floor to floor. In both these situations, a person with a physical disability must be provided with an equally convenient means of moving between the same floor levels within the building. This can be accomplished by providing elevators or a platform-equipped passenger-elevating device.

2) The route from the escalator or inclined moving walk to the *accessible* path of travel that leads from floor to floor as required by Sentence (1) shall be clearly indicated by appropriate signs. (See also Article 3.8.2.10.)

3.8.2.5. Path of Travel to Parking Areas and Passenger-Loading Zones

(See Note A-3.8.2.5.)

Attributions [F73-OA1]

Intent: To limit the probability that people using a manual wheelchair or other manual mobility assistance device will not be able to move about within a building without the assistance of another person.

Attributions [F73-OA1]

Intent: To limit the probability that people using a manual wheelchair or other manual mobility assistance device will not be able to find the way to an accessible path of travel in the building.

- A-3.8.2.5. Parking Areas. In localities where local regulations or bylaws do not govern the provision of or dimensions of accessible parking spaces, the following provides guidance to determine appropriate provisions. If more than 50 parking spaces are provided, parking spaces for use by persons with physical disabilities should be provided in the ratio of one for every 100 parking spaces or part thereof. Where parking spaces are provided, parking spaces for use by persons with physical disabilities should also be provided for each accessible viewing position and for each accessible sleeping room or bed space. Parking spaces for use by persons with physical disabilities should
- (1) be not less than 2 400 mm wide and provided on one side with an access aisle not less than 1 500 mm wide,
- (2) have a firm, slip-resistant and level surface,
- (3) be located close to an entrance required to conform to Article 3.8.2.2.,
- (4) be clearly marked as being for the use of persons with physical disabilities, and
- (5) be identified by a sign located not less than 1 500 mm above ground level, with the International Symbol of Access (Figure A-3.8.2.5.-A).

Section 3.8. Accessibility



Figure A-3.8.2.5.-A
"International Symbol of Access" sign

A general guide for the slip resistance of materials is provided in the Appendix of this handbook.

Asphalt, concrete and firm, compacted gravel are acceptable parking surfaces. Curb ramps should be not less than 1500 mm wide. Parallel parking spaces should be not less than 7000 mm long. If more than one parking space is provided for persons with physical disabilities, a single access aisle can serve two

adjacent parking spaces. The arrangement shown in Figure A-3.8.2.5.-B allows the shared use of an access aisle to serve two adjacent parking spaces provided for use by persons with physical disabilities. Parking to accommodate vans and other vehicles equipped with platform lifts or side ramps should be provided greater dedicated space. The design of the path of travel should accommodate loading to and from lifts and ramps, where intended. Vertical clearance must also be considered.

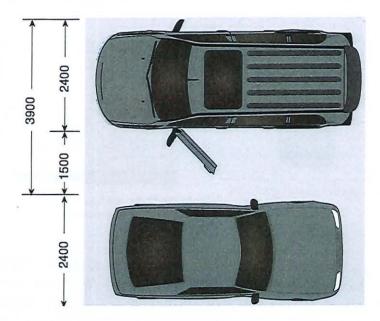


Figure A-3.8.2.5.-B Shared access aisle

The access aisle may serve more than one parking stall and should have the same level surface as the parking stalls it serves. Consider the movement around doors and ramps so that there is enough space and it is not necessary to travel behind other cars or be in a position where it is difficult to be seen by other drivers. Figure 3.8.2.5. shows a shared aisle serving two stalls. The CSA B651, Accessible Design for the Built Environment standard is another source of information for accessible parking stall quantities and design.

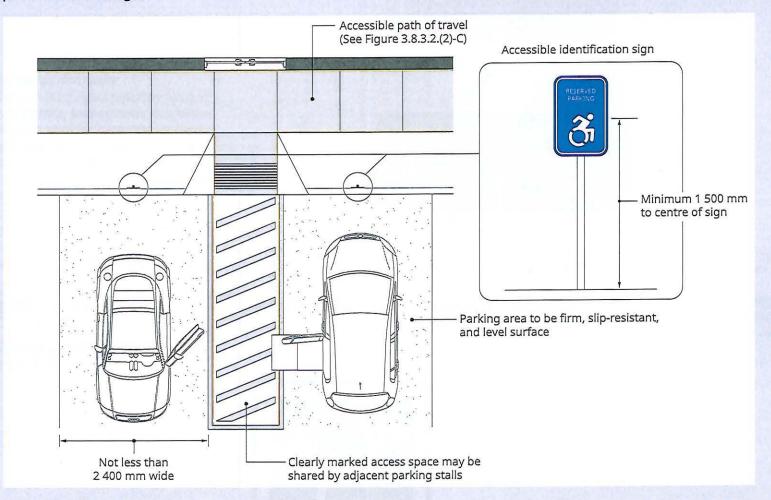


Figure 3.8.2.5.
Parking stall access aisles

1) An accessible path of travel shall be provided between parking stalls for persons with disabilities and an accessible entrance referred to in Article 3.8.2.2. (See Note A-3.8.2.5.(1).)

A-3.8.2.5.(1) Path of Travel to Parking. It is not intended that a separate accessible entrance must be provided from the parking area. The designer may choose to designate the entrance leading to the parking area as the required entrance or to provide a properly identified and unobstructed path of travel from the parking area to the entrance which is accessible. The entrance chosen should, in any case, be the closest entrance to the parking area and one normally used by the occupants of the building. Long paths of travel are not recommended.

- 2) Where a passenger-elevating device serves one or more indoor parking levels, an *accessible* path of travel shall be provided between <u>each</u> parking level <u>containing stalls for persons with disabilities</u> and all other parts of the *building* required to be *accessible* in accordance with Subsection 3.8.3.
- 3) Passenger-loading zones shall comply with Subsection 3.8.3. and be provided with an *accessible* path of travel to an *accessible* entrance referred to in Article 3.8.2.2.

Attributions [F73-OA1]

Intent: To limit the probability that people using a manual wheelchair or other manual mobility assistance device will not be able to travel between exterior parking spaces and a building entrance without the assistance of another person.

Attributions [F73-OA1]

Intent: To limit the probability that people using a manual wheelchair or other manual mobility assistance device will not be able to travel between indoor parking spaces and a building entrance without the assistance of another person.

Attributions [F73-OA1]

Intent: To state the application of Subsection 3.8.3. regarding exterior passenger-loading zones.

Where there are several buildings with parking areas or passenger-loading zones, parking stalls and loading zones should be designed and located to accommodate access to all buildings by people with disabilities and close to an accessible entrance.

The design should leave adequate space for side- and rear-loading vehicles.

It is recommended that the number of parking stalls be calculated to suit specific needs. Some buildings such as medical clinics may need more accessible parking stalls than other buildings.

3.8.2.6. Controls and Outlets

1) Except as provided in Sentence 3.5.2.1.(3), controls for the operation of *building* services or safety devices, including electrical switches, thermostats, faucets, door and window hardware and intercom switches, that are intended to be operated by the occupant and are located in an *accessible floor area* shall comply with Subsection 3.8.3. (See Note A-3.8.2.6.(1).)

Attributions [F74-OA2]

Intent: To state the application of Subsection 3.8.3. regarding controls.

Intent: To direct Code users to Sentence 3.5.2.1.(3) for the requirement regarding controls in passenger elevators.

CITY OF SALMON ARM

BYLAW NO. 4590

A bylaw to amend "District of Salmon Arm Zoning Bylaw No. 2303"

WHEREAS notice of a Public Hearing to be held by the Council of the City of Salmon Arm in the Council Chambers at City Hall, 500 – 2 Avenue NE, Salmon Arm, British Columbia and by electronic means, on June 26, 2023 at the hour of 7:00 p.m. was published in the and , 2023 issues of the Salmon Arm Observer;

AND WHEREAS the said Public Hearing was duly held at the time and place above mentioned;

NOW THEREFORE the Council of the City of Salmon Arm in open meeting assembled enacts as follows:

- 1. "District of Salmon Arm Zoning Bylaw No. 2303" is hereby amended by adding:
 - To Section 2.0 Definitions, after "Accessory Use" and before "Accommodation Unit", the following:

Accessible Car Space means a car parking space designated for individuals with mobility limitations, who hold a valid accessible parking permit.

Accessible Van Space means a parking space designated for those with mobility issues designed to allow room for people to load or unload a wheelchair, scooter, walker or similar device that is used to transport a person who has limited ability and hold a valid accessible parking permit.

Accessible Parking Stall means either an Accessible Car Space or an Accessible Van Space.

- ii) After Section 11 of Appendix I: Off Street Parking and Loading, the following:
 - 12. Accessible Parking Stalls
 - .1 Accessible Car Spaces are a minimum of 5.8m depth x 2.4m width. Accessible Van Spaces are a minimum of 5.8m depth x 3.3m width, with an additional minimum aisle width of 1.5m. The additional aisle may be shared between neighbouring Accessible Van Spaces.
 - .2 Accessible Parking Stalls must be:

- (a) clearly identified by both paint markings on the parking space and a freestanding Sign in front of the space that is not less than 1.2m above ground measured to the bottom of the Sign and incorporating the international symbol of accessibility for persons with disabilities. Accessible Van Spaces signage shall also include the words "van accessible";
- (b) treated with a firm and slip-resistant surface;
- (c) provided with a curb letdown from the shared access aisle to any raised pedestrian sidewalk that provides connectivity to the Building;
- (d) constructed with a slope not exceeding 2%; and
- (e) marked with high-colour-contrast diagonal pavement lines on the access aisle
- .3 Of the required stalls for all permitted uses, the minimum number of Accessible Parking Stalls shall be provided in accordance with the following table:

Total	Total Number of	Accessible	Accessible Van
Number of	Accessible Parking	Car Spaces to	spaces to be
Parking	Stalls to be Provided	be provided	provided
Spaces			
required			
0-5	0	0	0
6-25	1	1	0
26-50	3	2	1
51-100	4	3	1
100+	6	4	2

- .4 Should Accessible Parking Stalls be provided that are in addition to those in Section 12.3 then those Accessible Parking Stalls must be in addition to the required number of parking stalls.
- .5 Parking facilities that are used exclusively for buses, trucks, delivery vehicles, law enforcement vehicles, and vehicular impound are not required to include accessible spaces. However, if such lots are accessed by the public (e.g., impounded vehicle retrieval), one (1) Accessible Parking Stall is to be provided.

2. SEVERABILITY

If any part, section, sub-section, clause of this bylaw for any reason is held to be invalid by the decisions of a Court of competent jurisdiction, the invalid portion shall be severed and the decisions that it is invalid shall not affect the validity of the remaining portions of this bylaw.

3. ENACTMENT

Any enactment referred to herein is a reference to an enactment of British Columbia and regulations thereto as amended, revised, consolidated or replaced from time to time.

4. EFFECTIVE DATE

This bylaw shall come into full force and effect upon adoption of same.

5. CITATION

This bylaw may be cited as "City of Salmon Arm Zoning Amendment Bylaw No. 4590"

READ A FIRST TIME THIS	DAY OF	2023
READ A SECOND TIME THIS	DAYOF	2023
READ A THIRD TIME THIS	DAYOF	2023
ADOPTED BY COUNCIL THIS	DAY OF	2023

MAYOR
CORPORATE OFFICER

Item 10.3

CITY OF SALMON ARM

Date: June 12, 2023

Moved: Councillor

Seconded: Councillor

THAT: the Bylaw entitled City of Salmon Arm Fee for Service Amendment Bylaw No. 4592 be read a first, second and third time.

[Parking Violations]

P10city of SALMONARM

TO:

His Worship Mayor Harrison and Council

DATE:

May 30, 2023

SUBJECT:

Amendment to Fee for Service Bylaw No.2498

RECOMMENDATION:

THAT:

Fee for Service Bylaw No. 2498 be amended as follows:

Line Item 3 of Appendix 3 in Schedule B be replaced with

•	Parking Violations (Bylaw No. 3668)	
3.	All Parking Violations	\$50.00
	If paid within 2 days	\$25.00

AND THAT:

Line Item 5. of Appendix 3 in Schedule B be amended to delete the reference to Marine Park NE Parking Lot.

BACKGROUND:

Through amending Bylaw 4522, City Council recently amended the parking fees for the metered downtown streets and parking lots. The rate moved from .25 cents an hour to \$1.00 per hour. The streets and parking lots in the downtown which are not metered have provision for 1 or 2 hour free parking. The current fine for violations to the parking regulations is \$35.00, which may be reduced to \$10.00 if paid within 2 days.

Since the implementation of the parking fee increase it seems the use of the Inner Core parking lot has declined substantially. It is suspected that some of the inner core users may now be parking on the street for extended periods of time, which is causing some problem for the downtown merchants who need those parking spaces for customers. It is also apparent that the \$10.00 penalty if paid within two days is so low that there is no incentive to pay for parking on an hourly basis. The Downtown Parking Commission discussed this matter at their meeting of May 16, 2023 and, with the intended goal of discouraging the parking abuses, unanimously passed a motion to forward to Council the recommendation to raise parking fines to \$50.00, which may be reduced to \$25.00 if paid within 2 days.

With regard to the Marine Park Parking Lot, the parking fees currently indicated in the Fee for Service Bylaw have the parking fee set at \$4.00 per day for a regular stall or \$6.00 a day for a motor home or truck and trailer stall. As noted above, the parking rate was increased from .25 per hour to \$1.00 per hour, including the pay by plate machine serving the Marine Park lot. This housekeeping amendment is to simply delete the outdated daily parking reference in the bylaw.

Respectfully submitted,

Prepared By:

Maurice Roy, RBO/CRBO
Manager of Permits & Licensing

Reviewed By:

Gary Buxton

Director of Planning & Community Services

CITY OF SALMON ARM

BYLAW NO. 4592

A bylaw to amend "District of Salmon Arm Fee for Service Bylaw No. 2498"

WHEREAS, it is deemed desirable and expedient to alter the fees imposed by "District of Salmon Arm Fee for Service Bylaw No. 2498";

NOW THEREFORE the Council of the City of Salmon Arm, in open meeting assembled enacts as follows:

1. Schedule "B" -

a) Sentence 3. of Appendix 3 in Schedule B:

[Parking Violations	
Ì	3.	All Parking Violations	\$35.00
ļ		If paid within 2 days	\$10.00

be replaced with:

	Parking Violations	
3.	All Parking Violations	\$50.00
	If paid within 2 days	\$25.00

b) Sentence 5. of Appendix 3 in Schedule B be amended by deleting the reference to "Marine Park NE Parking Lot" in its entirety.

SEVERABILITY

2. If any portion of this Bylaw is held invalid by a Court of competent jurisdiction, then that invalid portion shall be severed and the remainder of this Bylaw shall be deemed to have been adopted without the severed portion.

ENACTMENTS

3. Any enactments referred to herein is a reference to an enactment of British Columbia and regulations thereto, as amended, revised, consolidated or replaced from time to time.

EFFECTIVE DATE

This Bylaw shall come into full force and effect upon adoption of same.

CITATION

5. This Bylaw may be cited as the "City of Salmon Arm Fee for Service Amendment Bylaw No. 4592".

READ A FIRST TIME THIS	DAY OF	2023
READ A SECOND TIME THIS	DAYOF	2023
READ A THIRD TIME THIS	DAY OF	2023
ADOPTED BY THE COUNCIL	DAYOF	2023
	_	
		MAYOR
	•••••	CORPORATE OFFICER

Item 10.4

CITY OF SALMON ARM

Date: June 12, 2023

Moved: Councillor

Seconded: Councillor

THAT: the Bylaw entitled City of Salmon Arm Subdivision and Development Servicing Bylaw No. 4293 be read a first and second time.



City of Salmon Arm Memorandum from the Engineering and Public Works Department

TO:

His Worship the Mayor and Members of Council

FROM:

Robert Niewenhuizen, Director of Engineering and Public Works

PREPARED BY:

Jenn Wilson, Service Delivery Management Coordinator

DATE:

June 5, 2023

SUBJECT:

SUBDIVISION AND DEVELOPMENT SERVICING BYLAW UPDATE

RECOMMENDATION:

THAT:

The Subdivision and Development Servicing Bylaw No. 4293 be read a first and

second time.

AND THAT:

The Subdivision and Development Servicing Bylaw No. 4163 be repealed upon

final reading of the Subdivision and Development Servicing Bylaw No. 4293

The Subdivision and Development Servicing Bylaw No. 4163 was adopted by Council on October 11, 2016. Since then, the Engineering Department staff have been collecting 'housekeeping' updates and recommendations for updates through master planning documents. Staff have completed a draft update and completed a thorough review of the City's Subdivision and Development Servicing Bylaw No. 4163 against current best practices. The review process has resulted in a final draft of a new bylaw intended to be streamlined, modernized, user friendly, legally sound and consistent with updated master plans.

The previous bylaw update was significant and included several rounds of consultation with local engineers and developers as well as a thorough legal review. The proposed changes in this update are generally minor in nature, as such a legal review and consultation with external stakeholders is not recommended by staff.

The most significant changes incorporate recommendations from the City's Stormwater Master Plan (ISL Engineering, 2020) and the City's Active Transportation Plan (Urban Systems, 2022) into Schedule B, Part 1 and 2, Design Criteria and Standard Drawings.

Staff carefully considered all master plan recommendations and opted not to include all recommendations during this revision cycle. Generally, these recommendations would require either a significant service level change or broader multi-departmental coordination.

The key changes to the documents are listed below.

Bylaw:

- Revision of definition of 'Low Density Residential to be consistent with the Official Community Plan definition.
- Addition of a 12m Urban Single Lane Hillside road cross-section (first introduced in the Park Hill development).
- Addition of bike lane or paved shoulder requirements on rural roads where indicated by the Official Community Plan.
- Removal of 'Fire Hydrants' from the list of works and services exempt for infill developments. Note: if density increases, fire hydrant gaps should be filled.

Design Criteria:

- Addition of information regarding Engineers and Geoscientists BC (EGBC) Firm Permit to Practice requirements.
- Addition of Illumination plans and Individual Lot Grading plans to design drawing submission set requirements
- Addition of a reference to BC Active Transportation (BCAT) Design Guide as best practices for AT design as well as to new/revised standard drawings
- Addition of Multi-use Path design specifications
- Addition of a maximum driveway width for residential and commercial properties, allowing wider driveways on wider lots, to a maximum of 8m and 10m respectively.
- Addition of recommendations for the City Stormwater Master Plan including:
 - Requirement to include considerations for the impact of Climate Change and a 10% increase to design flows, at minimum
 - Addition of enhanced recommendations for infiltration systems, specifically addressing risk management
 - A set run-off rate based on a basin wide calculation for flows entering into sensitive ecosystems
 - o A requirement for all culverts to accommodate the 100-year flood events
 - Updates to the run-off and roughness coefficients and Intensity-Duration-Frequency (IDF) curves
- Clarification on street lighting specifications
- Addition of a bee and drought friendly boulevard seed mix

Drawings:

- Update of CGS-8 Trail Type 1 (Multi-use Path) to meet AT Master Plan recommendation (BCAT best practices) of 3-4m width.
- Update of CGS-9 Trail Type 2 to meet AT Master Plan recommendation (BCAT best practices) of 2-3m width.
- Update RD-3 Urban Collector Road Cross-Section to meet BCAT best practices including the addition of an offset multi-use path (MUP) on one side of the roadway and removal of the bike lanes.
- Update of RD-9 Rural Arterial Road Cross-Section to meet BCAT best practices for rural roads with a widened paved shoulder of 2.5m or an offset MUP where right of way (ROW) and topography permit.
- Update of RD-8 Rural Collector Road Cross-Section to meet BCAT best practices for rural roads with a widened paved shoulder of 2.0m or an offset MUP where ROW and topography permit.

- Update of RD-7 Rural Local Road Cross-Section to improve AT capacity of rural roads with a widened gravel shoulder of 1.5m or an offset MUP.
- Update of RD-6A Industrial Area Road Cross-Section to improve AT capacity of industrial roads with a widened gravel shoulder of 1.5m or an offset MUP.
- Update of RD-6B New Industrial Park Cross-Section to improve AT capacity of industrial roads with inclusion of a 2.0m offset MUP.
- Update of CGS-5 Sidewalk Crossing at Driveway Entrance to the BCAT best practices.
- Update of CGS-6 Wheelchair Sidewalk Ramp to the BCAT best practices including tactile attention indicators in high use areas.
- Additional of drawings RD-11A Temporary 20m Cul-de-sac and RD-11B Temporary Lane Cul-de-sac.
- Update of ST-7 IDF curve to most recent Environment Canada Data.
- All drawings are sealed per Engineers and Geoscientists British Columbia (EGBC) requirements.

Construction Specifications

- Addition of MMCD Supplemental Specifications for Horizontal Direction Drilling
- Addition of MMCD Supplemental Specifications for Sanitary Pipe Lining

Construction Specifications:

General housekeeping items

Respectfully submitted,

Robert Niewenhuizen,

Director of Engineering and Public Works

X:\Operations Dept\Engineering Services\Subdivision and Development Servicing Bylaw\SDSB No. 4163\Amendment 4293\DRAFT AMENDMENT\2022 11 22 - Draft\HWM Report - Final Draft Servicing Bylaw INfo.docx

INFORMATIONAL CORRESPONDENCE - June 12, 2023

1.	Building Department – Building Statistics – May 2023	N
2.	Building Department - Building Permits - Yearly Statistics	N
3.	V. De Groot – Email dated June 1, 2023 – Tax Prepayment Plan	N
4.	M. Defoe - Email dated June 5, 2023 - City Hall Hours of Operation	N
5.	M. Engel – Email dated June 1, 2023 – Request to use Canoe Beach Gazebo – July 2, 2023	A
6.	T. Starkell, Administrative Services Manager, Salmon Arm Roots & Blues - Letter dated	Α
	May 15, 2023 - Request for Letter of Support for SEP Application	
7.	J. Broadwell, Manager, Downtown Salmon Arm - Request to Close Alexander Street for	A
	Roots and Blues Kick Off Concert - August 17, 2023	
8.	A. VanderMeulen, Cornerstone CRC Outreach Team - Letter dated June 5, 2023 -	A
	Request for road closure - September 16, 2023	
9.	B. Andrews / A. Heiser, Peer Engagement Coordinator, Canadian Mental Health	A
	Association – Letter received May 30, 2023 – Request for additional transit bus routes –	
	Blind Bay to Salmon Arm	
10.	S. Dewalle – Email dated May 25, 2023 – Request to use Blackburn Park – July 22, 2023	A
11.	J. McEwan, Salmon Arm Fair Manager – Letter dated May 18, 2023 – Request for road	A
	closures for Salmon Arm Fair & Parade – September 9, 2023	
12.	S. Dhaliwal, President, Salmon Arm Cricket Club – Letter received June 5, 2023 – Request	Α
	for installation support of cement under pad for Cricket Playing Field	3 T
13.	The Wellspring Foundation for Education - Lake2Lake Ride for Rwanda - September	N
	16-17, 2023	
14.	K. Hartman, Vice-President of the New Denver and Area Housing Society - Email dated	N
	May 29, 2023 - Rural Housing Crisis Survey for Parliamentary Secretary for Rural	
	Development	3.7
15.	Ministry of Transportation and Infrastructure - Email dated May 30, 2023 - BC E-Bike	N
	Rebate Program	
16.	L. Connor, Manager - Accessibility Initiatives, SPARC BC - Email dated June 1, 2023 -	N
	Information Session for the Local Community Accessibility Grant Program	3.7
17.	D. Sharman, Community Relations Manager, Southern Interior, BC Hydro – Email dated	N
	June 2, 2023 – UBCM Convention 2023 Invitation	
18.	S. Gregson, Spokesperson, Coalition of Child Care Advocates of BC - Request for UBCM	A
	Child Care Resolution	

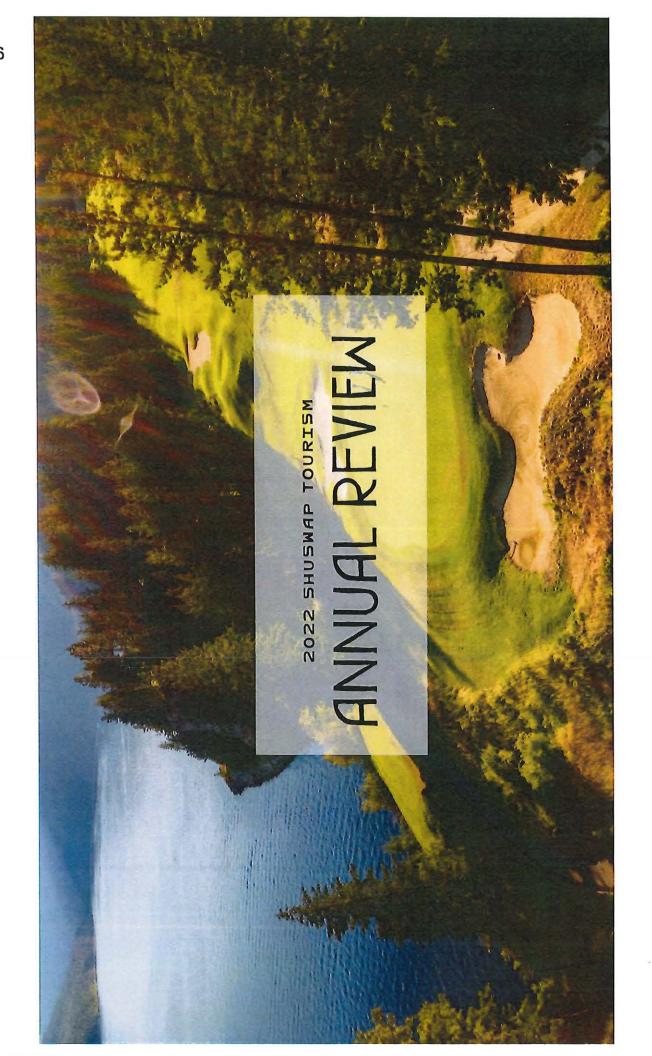
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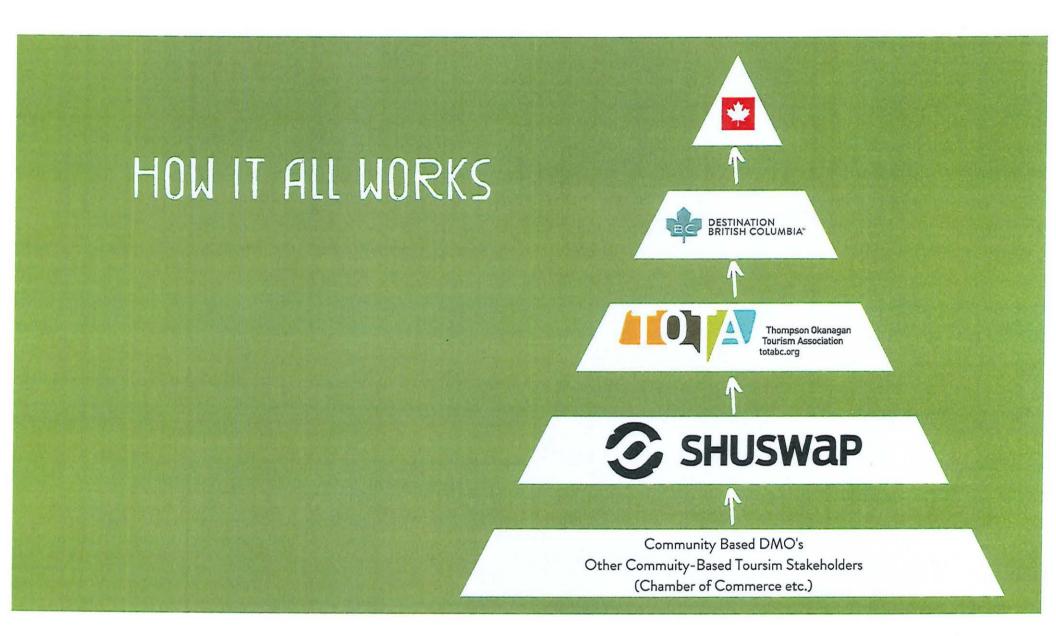
Item 14.1

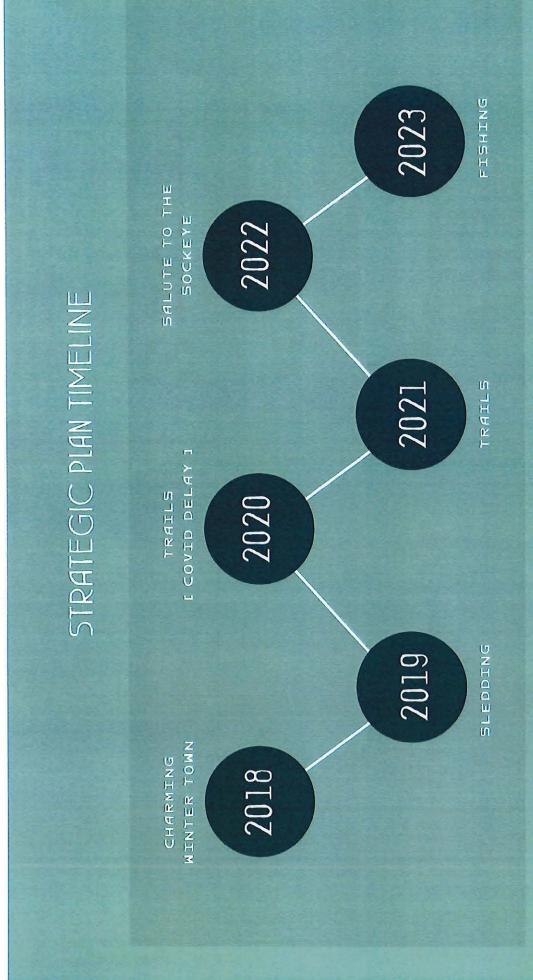
CITY OF SALMON ARM

Date: June 12, 2023

M. Matheson, Team Leader 2022 Shuswap Tourism Annual Review







MAJOR CAMPAIGNS

Adams River Sockeye Salmon Run

BC Ale Trail

Sled Sicamous Consortium

Get Into BC

Shuswap Golf Consortium



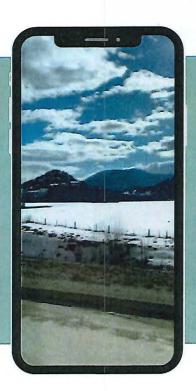
PROMOTIONAL ASSETS

Writing Series

Print Materials

Social Media

Photo Assets





SPECIAL PROJECTS

Tourism Week 2022

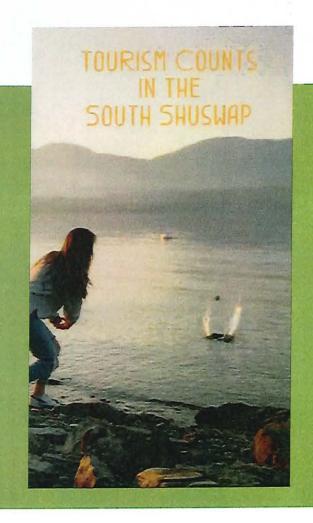
Alertable Partnership

Travel Media & Influencer Trip Planning

TOTA Uninterrupted







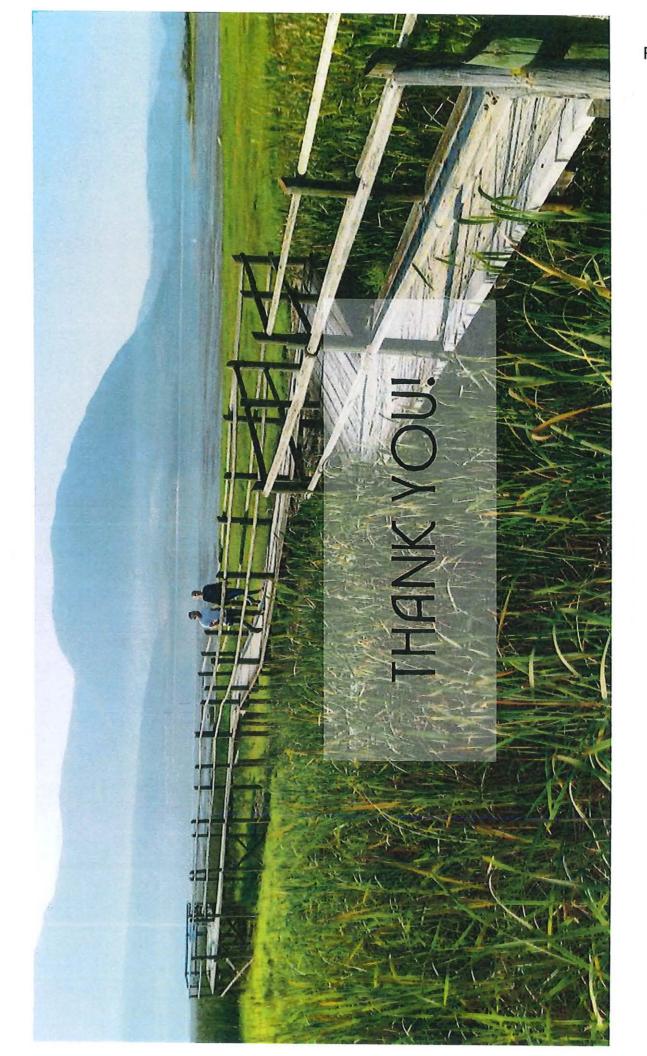
RESULTS & RECOGNITION



#49 Tourism Sentiment Index (TSI)
Top Canadian Destinations

PLATINUM Marcom Award for Salute to the Sockeye Video





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Item 14.2

CITY OF SALMON ARM

Date: June 12, 2023

Isha Matous-Gibbs, Urban Matters Poverty Reduction Grant



CITY OF SALMON ARM

Poverty Reduction, De-Stigmatization, and Awareness Campaign

May 2023

SALMONARM

urban **matters**





Acknowledgments

The City of Salmon Arm gratefully acknowledges the traditional territory of the Secwepemc people, with whom we share these lands and where this work was completed.

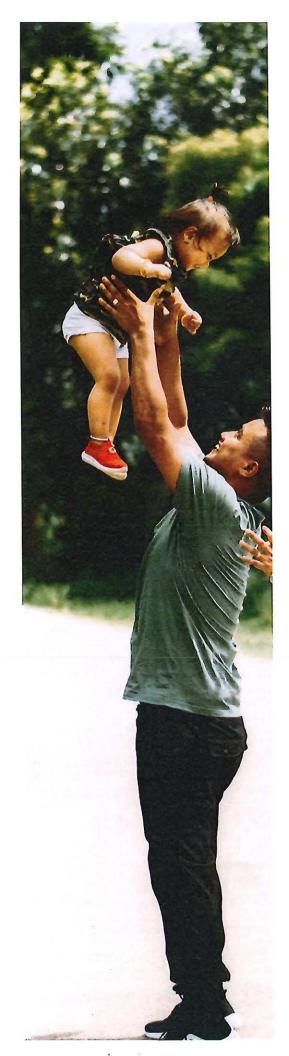
Special thank you to the Salmon Arm Observer, Canadian Mental Health Association Shuswap-Revelstoke, and Rise Up Indigenous Wellness Society for their support and partnership throughout this project.

This report was prepared by Urban Matters CCC Ltd. in collaboration with the City of Salmon Arm and the Social Impact Advisory Committee. Funding for this project was provided by the Union of BC Municipalities through a Poverty Reduction & Planning Grant.

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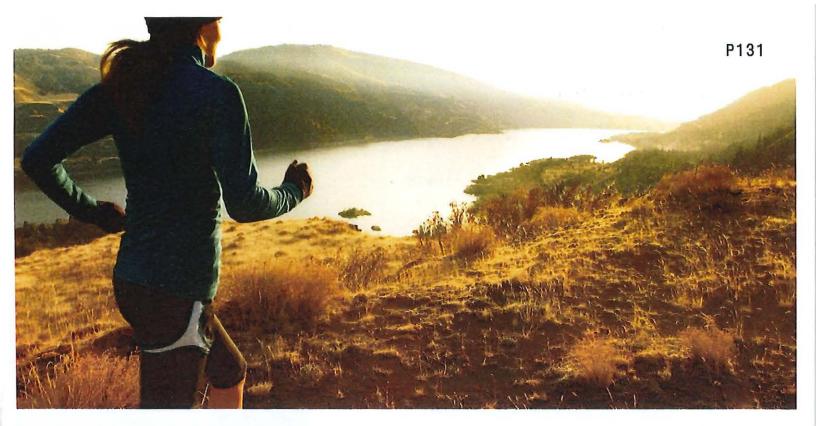


EXECUTIVE SUMMARY

Stigma towards people experiencing poverty has a negative impact on their ability to access services and seek support. The Salmon Arm Poverty Reduction, De-Stigmatization, and Awareness Campaign was developed to improve social outcomes in the community by increasing service awareness and reducing stigma. The goal was both to highlight the many community organizations who are ready to help as well as ensure that people feel safe accessing those services.

Originally, project partners proposed a social media or advertising campaign to share information about services and bust myths around poverty. Ultimately, project partners co-created a pilot-and-test approach where tactics relied more heavily on building relationships and engaging community members in important conversations about stigma. The resulting campaign was a by-Salmon Arm, for-Salmon Arm project. It became a collaborative effort of the City of Salmon Arm, Indigenous Rise Up, CMHA Shuswap-Revelstoke, the Social Impact Advisory Committee (SIAC), the Salmon Arm Observer, and the consultant team at Urban Matters CCC Ltd.

Over the course of four months, project partners came together to plan, develop, and promote content that showcased local services and organizations as well as the stories of everyday people who are experiencing poverty and stigma. Learning opportunities were also provided to the broader community in the form of workshops, where participants were able to deepen their understanding about the different factors of poverty and stigma.



Impact and Learnings

As a result, the campaign reached various important audience groups across the community. For example, tens of thousands of residents were reached through articles written in the Salmon Arm Observer. This is a testament to the power of telling a good story, but also the interest the community has in this topic. Engagement measurements show high levels of engagement with the articles, something that is difficult to achieve.

The community at large was also engaged through a workshop series. Though these workshops reached a smaller group of individuals, passion and engagement were high. A common question from participants was, "What can we do next?" Whether it was looking for ways to tell their story, or seeking places to volunteer or advocate, participants of the workshops and webinar were highly engaged and vested in the topic of anti-stigma. It is clear that there is a strong appetite for local initiatives that can help reduce poverty and improve community well-being among residents.

Additionally, dedicated anti-stigma workshops were held for people with lived and living experiences. These had a particularly deep impact. Participants reported feeling inspired and engaged. They expressed feeling seen, heard, valued – and even experiencing healing of some past trauma. The workshop provided a learning opportunity for individuals to understand their own experiences and begin to express them, sparking conversations that have continued to take place beyond the workshops. Coupled with learning and education, the empowerment of people with lived and living experience form two key aspects that lead to meaningful social change.

Considerations for Next Steps

Moving forward, the City of Salmon Arm and Social Impact Advisory Committee can continue to work with community agencies to promote services in the community and support anti-stigma efforts. This could look like:

- Continuing to promote services such as BC 211 to increase service awareness and track social service referrals
- Exploring ways to support the creation of a volunteer network, a made in Salmon Arm solution to connect community members with open volunteer positions
- Launching a project that extends the concept of using personal storytelling to bust myths and stigma about poverty
- Continuing to work with community partners to write and publish stories that address stigma as well as promote opportunities to get involved in community events and initiatives

In any future initiatives that the City chooses to pursue, one thing is clear: Salmon Arm has strong community partners and champions who are committed to creating positive social change. They bring the local knowledge, trust, and collaboration needed to meaningfully engage the community, and possess the ability to inspire people to take action. Working with trusted community partners also helps to ensure sustainable social change as strong and committed partnerships are important for maintaining momentum, sustaining initiatives beyond short-term fixes, and ultimately, creating a more inclusive community.

Campaign Reach at a Glance

Salmon Arm Observer Feature Articles:

- 7 articles written by local media
- 4 feature pages published in the Salmon Arm Observer
- 32,106 users reached online through Facebook

BC 211 Service Utilization During Campaign:

 23 total contacts between January and April 2023

Workshop and Webinar Participation:

- 5 learning workshops offered
- 69 unique individuals attended

Background

The City of Salmon Arm is a diverse community with a range of social, demographic, cultural, and economic groups. A wide network of social support exists for its community members and the city serves as a central hub of services for the Columbia Shuswap region. However, misconceptions about poverty and homelessness exist in the community, which adversely affect social well-being and belonging.

Tension continues to rise between members of the public and those who are experiencing homelessness. Stigma and hate against individuals living in poverty have become commonplace on social media. Frustrated by the visible signs of homelessness and poverty, community members have pushed for more action by the City of Salmon Arm to address growing social issues.

At the same time, local assessments show that about 13 percent of the population in Salmon Arm is living in poverty, earning a median income of \$17,527 compared to the community-wide median of \$48,987. A 2021 Social Impact Assessment identified "lack of knowledge of available services" as the top barrier to people living in poverty from accessing services, meaning many of those who need support from social-serving organizations don't know where and how to access the services they need.

There is a strong reluctance among those living in poverty to reach out and access services due to fear of stigma and discrimination. For example, clients may register for coupon programs at community organizations but don't use them due to feelings of stigma and shame. The Social Impact Advisory Committee (SIAC) also recognized that there are many among the community who have hidden experiences of poverty. Many people struggle with meeting their basic needs, especially among seniors, newcomers and immigrants, and low-income families, though they may not be experiencing visible signs of poverty such as homelessness.

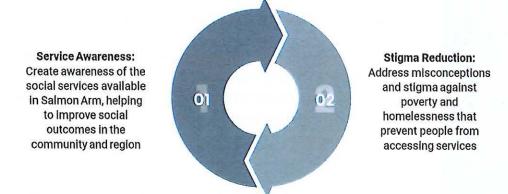
Seeing the need to address stigma around poverty and increase awareness about community services, the City of Salmon Arm and SIAC applied, and subsequently received, funding from the Union of BC Municipalities through the Poverty Reduction Planning and Action Grants to create and implement a community-wide poverty reduction campaign. Following a competitive bid process, Urban Matters CCC Ltd., was the consultant team hired to support the launch of this campaign.

"The City recognizes
that it can play a
valuable role in
convening different
parties to facilitate
solutions to complex
problems, although it
may not actually be
responsible for
providing services in
that area. Where
resources allow, the
City plans to continue
playing a role in this
way as needed."

– Social Wall-Being Roles and Responsibilities, City of Salmon Arm

The Campaign

The Salmon Arm Poverty Reduction, De-Stigmatization, and Awareness Campaign was developed to improve social outcomes in the community through two pathways: increasing service awareness and reducing stigma. The goal was both to highlight the many community organizations who are ready to help as well as ensure that people feel safe accessing those services.



After discussions with the SIAC, the campaign shifted from an initial idea of launching a social media campaign to one that focused on partnerships and building capacity within the community. The approach of seeking deliberate partners to create content, spread the word, and recruit participants resulted in innovative and unique strategies. The campaign featured a series of articles in the local newspaper, the Salmon Arm Observer, and a series of workshops with current or potential community champions. The result was a pilot project that used various key tactics to achieve the project goals.

Service Awareness

This work was aimed towards community members who are experiencing stigma and hidden poverty. These are individuals or families who are not currently in crisis but do not have adequate income or support to consistently meet their basic needs. It was hoped that by sharing information about local services and stories of what poverty looks like across the community, people would be encouraged to reflect on their own needs and access the services they need.

Tactics included:

- 1. Publish a series of bi-weekly features to showcase the work and impact of local service providers in partnership with the Salmon Arm Observer.
- 2. Promotion of BC 211, a free and confidential service that helps connect people to community resources.

Stigma Reduction

This aspect of the campaign was directed towards groups who may have the ability to influence narratives in the community and spark action, thereby gradually reducing stigma. For example, people with lived and living experience hold firsthand knowledge and experience of poverty and stigma. They would be able to identify key topics for public-facing messaging and if able, share their personal stories.

Tactics included:

- 1. Facilitate workshops for people with lived and living experience to learn about stigma and feel empowered to deliver their own anti-stigma initiatives for the community.
- 2. Delivery an informational webinar for the general community to learn about the complex nature of poverty and the ongoing stigma that people experience.
- 3. Deliver a dedicated workshop for community leaders and changemakers to gain a deeper understanding of poverty and reflect on how they may be able to better support those living in poverty through their everyday work and impact.

Campaign Timeline

2023	January	February	March	April
Update BC 211 Listings				
Promote BC 211 in Salmon Arm Observer				
Launch weekly features in Salmon Arm Observer				
Facilitate workshops for PWLLE				
Deliver community webinar and workshops				

Insights Gained

- Access to technology is a barrier for those experiencing poverty.
 Campaigns focused on reaching this target audience should utilize various platforms and both print and digital methods.
- » Social media comments show the community is generally receptive to grassroots, communityled solutions to address poverty. They are more likely to show distrust and frustration towards systems and institutions.
- » Content creation and social media management take time and effort. It is important to have a dedicated resource or partner who can play a central role in content creation, social media posting, and data collection.

CAMPAIGN DELIVERY

Storytelling in the Salmon Arm Observer

Stories are a powerful tool for communication. They can inspire and motivate us and help us make sense of the world around us. In this project, it was identified early on that storytelling would have an important role in addressing stigma and creating a sense of community. This led to a partnership with the Salmon Arm Observer, one of the community's main news media platforms.

In collaboration with the Observer's knowledgeable and engaged editorial team, a series of features were developed that focused on education and storytelling around poverty. For eight weeks, a feature page was included in the Observer on a biweekly basis. Each feature page contained profiles on local organizations and services as well as interviews with those who have lived or living experience with poverty, as well as an ad for BC 211 services (see next section).

Each feature page was dedicated to a specific topic. In total, there were four feature topics:

- 1. Poverty and stigma in Salmon Arm
- 2. Food security
- 3. Children and youth
- 4. Seniors



Online Reach

Collaboration and partnership with the Salmon Arm Observer resulted in meaningful outcomes and insights. Originally, four articles were planned for the biweekly feature pages. In total, seven articles were written by local journalist Martha Wickett with support from the Observer's editorial and publishing team.

After the articles were published in the print edition, they were posted on the Observer's Facebook page. In total, seven social media posts achieved a reach of 32,106 with an average post engagement rate of 9.5 percent. (Industry experts note that a good social media engagement rate on Facebook posts ranges between 1 to 5 percent, depending on the target audience, industry, and location.)¹

Definitions:

Comment – a response that is often provided as an answer or reaction to a blog post or message on a social network.

Engagement Rate – a metric used to describe the amount of interaction (e.g., likes, shares, comments) that a piece of content receives.

Reach – the number of people who saw a particular Facebook post from your Page.

Online Engagement

Four out of the seven articles garnered a total of 29 comments. Commentors noted that they found the stories and information helpful. Some engaged in further discussion to share insights and offer ideas for support.

While many praised the work and effort of individuals and community organizations, negative comments were directed towards systemic issues within public institutions. For example, community members noted difficulties in finding appropriate medical care and the lack of emergency physicians in the community. There were also comments regarding a lack of "budget" for seniors as well as limited housing options for seniors. One commentor also noted a perceived lack of action and intervention by City Council to provide an emergency shelter for those experiencing homelessness.

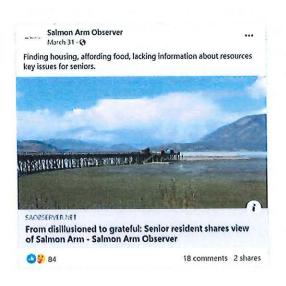
Though the quantity of comments is limited (29 in total), they indicated that people are generally receptive to community-led solutions and efforts to address poverty and are more likely to show frustration towards systems and institutions.

¹Sehl, Katie, and Shannon Tien. 2019. "6 Ways to Calculate Engagement Rate on Social Media." Hootsuite Social Media Management. April 10, 2019. https://blog.hootsuite.com/calculate-engagement-rate/.

Fortunately, there were no indications of hateful and stigmatizing language towards individuals experiencing poverty in any of the publicly visible comments related to the articles. It was originally noted by member organizations of the Social Impact Advisory Committee that hateful comments can be commonly found on local community pages. Throughout this campaign, project partners did not report receiving hateful comments and noted only positive reactions from their network and the community.

Medium of Communication

This service awareness campaign also leveraged both print news media as well as digital social media channels. Using both methods of communication meant community members across Salmon Arm were able to engage with the stories and information in multiple ways. During initial discussions with the SIAC, it was noted that many of those who experience poverty often lack digital literacy and access to technology. Therefore, it would be best to find alternative ways of sharing the content.



Leveraging Community Partnerships

Another added benefit of collaborating with the Salmon Arm Observer was having one central voice in the community to collect and share stories. The SIAC identified that social media content creation and posting requires time and effort to monitor consistently and effectively. Pursuing a purely digital campaign through social media, which was originally considered, meant project stakeholders and partners would need to be actively involved in sharing content and monitoring engagement.

"Such great information. Thank you for sharing, many families can benefit from this."

Facebook comment from Salmon Arm community member

Some stakeholders and partners did not have existing or active social media accounts, which would limit reach. This is due to the nature of social media where amplification is crucial.

Though a social media campaign would have the potential to reach a wide audience, especially through paid promotions, it would require much more coordination and effort on the part of the project stakeholders and partners. It also takes a significant amount of time to establish an engaged following. Concerns about reaching only those who were already following social service organizations made this a less appealing option (i.e., preaching to the choir). Therefore, it was determined that digital communications would be a less effective method for reaching campaign goals. This decision led to a partnership with the Salmon Arm Observer.

One consideration in choosing communication channels and platforms for promotion is the ability to collect metrics and data. The Salmon Arm Observer was able to collect social media metrics through its Facebook page, which were crucial in understanding the reach and impact of the stories created. This was an above and beyond service that they provided for this campaign. It is recommended that project partners in campaigns such as this have the ability and capacity to collect data and measurements to help inform initiatives.

Ultimately, collaboration with the Salmon Arm Observer strengthened relationships between the City of Salmon Arm, the SIAC, and the local media. Together, these three entities hold strong influence in the community and can continue to champion local initiatives and shape conversations around poverty.

Data and Metrics

Week 1 – February 15

Poverty and Stigma in Salmon Arm			
Article	Interviewees	Analytics	Resources Mentioned
'Poverty not a character flaw': Removing stigma, highlighting services in Salmon Arm crucial	 Councilor Louise Wallace Richmond, City of Salmon Arm Erin Jackson, City of Salmon Arm Rev. Jenny Carter, First United Church 	Facebook Reach: 498 users Post engagement: 58 Engagement rate: 11.6%	 Food with Friends Initiative, First United Church Shuswap Family Resource and Referral Society Shuswap Immigrant Services Society CMHA Shuswap- Revelstoke Service Navigation Drop-in NeighbourLink Shuswap South Shuswap Rides

Week 2 - March 1

Food Security			
Article	Interviewees	Analytics	Resources Mentioned
Stretching dollars in Salmon Arm: 'I never missed a meal and my son never missed a meal'	> Nan Gray, community member	Facebook Reach: 16,236 users Post engagement: 1,987 Engagement rate: 12.2%	 Good Food Box The Market at the Lighthouse Rise Up Indigenous Wellness Second Harvest Food Bank
Shuswap Food Action: Shuswap has capacity	Serena Caner,Shuswap FoodAction Society	Facebook Reach: 766 users	 Shuswap Food Action Society

to feed everyone in region		Post engagement:69Engagement rate:9%	 Shuswap Children's Association Indigenous food sovereignty
Access to food crucial to Salmon Arm society's work on Indigenous wellness	 Launa Payne, Rise Up Indigenous Wellness Sherrelle Anderson, Rise Up Indigenous Wellness 	Facebook Reach: 451 users Post engagement: 22 Engagement rate: 4.8%	sovereignty
Solving food security and sovereignty not a solo pursuit for Adams Lake band	 Mike Moyer, Adams Lake Band 	Facebook Reach: 434 users Post engagement: 19 Engagement rate: 4.4%	

Week 3 - March 16

Children and Youth			
Article	Interviewees	Analytics	Resources Mentioned
'Everyone's affected': Rising prices add to stress for Shuswap	> Tim Gibson, Factorial Shuswap Children's Association >	cebook Reach: 854 users	Shuswap Family Centre
<u>families</u>	> Christine Ondang, Child Care >	118	 SAFE Society & Transition House
	Resource & Referral	13.8%	 Shuswap Family Resource and Referral Society
	 Tracey Morland, Project Affinity and Respite Care 		ShuswapChildren's

 Rachel Richardson, Supported Child 	Association
Development	> Shuswap Association of
› Kim Sinclair, AspiralYouth PartnersAssociation	Community Living

Week 4 - March 29

Seniors			
Article	Interviewees	Analytics	Resources Mentioned
From disillusioned to grateful: Senior resident shares view of Salmon Arm	 Sean Sands, community member Patti Thurston, Shuswap Family Centre Monica Kriese, Salmon Arm and Area Community Response Network Jane Shirley, SAFE Society Katherine Kreller, Seniors' Resource Centre 	Facebook Reach: 12,867 users Post engagement: 1,383 Engagement rate: 10.7%	 Seniors Resource Centre Seniors Mental Health (Interior Health) Seniors Abuse and Information Line (SAIL) Shuswap Better at Home 5th Avenue 50 Plus Seniors' Activity Centre

Out of all the articles written and posted by the Salmon Arm Observer, this article received the most comments (18 total) on Facebook.

Promotion of BC 211

Formally launched in 2010, BC 211 is a centralized resource for a range of community, social, and government services. Its origins can be traced back to the "Red Book," a physical directory containing a range of community, social, and government services that began publication in 1953. The service has run since then, with expansions to other non-emergency human services such as crisis and information lines. In 2020, the service expanded to serve all of British Columbia. In 2022, the service was integrated with United Way British Columbia.

Currently, BC 211 offers three distinct services:

- 1. **Information and Referral Helpline** Provides 24/7, free, and confidential support through phone, text, email, and chat in more than 150 languages.
- 2. **Community Resource Listings** Maintains a database of more than 15,500 lists for vital community programs and services, which are monitored and updated to reflect the most current information.
- 3. Data Analysis Collects and analyzes data to determine the top needs as well as unmet needs across BC.

As a centralized resource for British Columbians, BC 211 was consistently promoted through the feature pages in the Salmon Arm Observer. A quarter-page ad was included alongside articles and service listings.









Insights Gained

- » Providing an up-todate, informative, and easy to use resource guide or service directory takes time and capacity. There is an opportunity to explore solutions for updating Salmon Arm listings regularly.
- » Exposure to BC 211 ads were limited to the print publication of the Salmon Arm Observer. Promotion can be expanded through other methods, such as posters and websites at various locations across the community, to broaden reach.
- » BC 211 continually seeks to improve its data collection methods. This data can be used by the City of Salmon Arm and the SIAC to identify emerging needs in the community.

Though there are a few existing resources and guides that contain a list of local services, promoting BC 211 was chosen for several reasons:

- It can serve as an initial point of contact for those who are experiencing hidden and/or chronic poverty but are not necessarily in crisis, a key target audience for the project.
- As a free, confidential, and multi-platform service, BC 211 offers an accessible way to explore a range of services with less fear of stigma and judgment compared to accessing a local, in-person service.
- As a provincially funded service with robust staffing and capacity, BC 211 provides a sustainable way of ensuring information about available supports and services that can be updated easily and consistently.
- It also provides dedicated marketing support to print promotional materials as well as develop graphics such as the ad placed in the Observer.

Data about service requests to BC 211 (below) shows a steady increase in its utilization in Salmon Arm since it first launched provincially in 2018 Statistics from the campaign duration show that requests for service had no significant increase compared to requests made in 2022. Therefore, we can likely infer that the newspaper advertisements did not result in any increase in usage of the BC 211 service. However, as the data for 2023 is still only the first four months, and we do not have the monthly breakdown of 2022 to compare high call rates, there may be a change in usage that is not yet detected.

Additionally, though the reach of the online articles was high, the BC 211 ad did not always appear next to the articles as online layouts were different than print layouts. This means not everyone who viewed the online articles would have viewed the BC 211 advertisement.

Data and Metrics

Requests for Service from BC 211 Originating in Salmon Arm – January to April 2023

Jan 1st to Apr 24th		
Month Total Contacts		
Jan-23	9	
Feb-23	6	
Mar-23	5	
Apr-23	3	
Total	23	

Year	Individual	Service Provider	Affected 3rd Party
Jan-23	8	1	
Feb-23	5	1	
Mar-23	4		1
Apr-23	3		
Total	20	2	1

Requests for Service from BC 211 Originating in Salmon Arm – By year

Year	Total Contacts to 211
2018	23
2019	24
2020	67
2021	85
2022	88
2023 (January to April)	23
Total	296

Year	Individual	Service Provider	Affected 3rd Party
2018	16	6	1
2019	19	2	3
2020	58	2	7
2021	71	4	10
2022	72	6	10
2023 (January to April)	20	2	1
Total	244	21	31

Anti-Stigma Education

In conjunction with increasing awareness around available social services, the campaign also included opportunities for the community to participate in anti-stigma education. Three anti-stigma workshops were held, tailored to three distinct target audiences.

Lived Experience Workshops

The first set of workshops were tailored for people with lived and living experience of poverty. These three-hour, in-person sessions focused on dialogue and facilitated conversation about participants' personal experiences as well as approaches to de-stigmatizing poverty. They were designed to include exercises to support participants in building the skills to share their personal stories.

What resulted was a robust discussion about stigma and how it affects individuals. The exercises and workbook tools prepared for the workshop were not covered within the time allotted and participants appreciated the opportunity to take the workbook home and complete it independently.

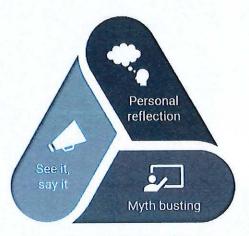
Part of the approach to these workshops was to embrace fluidity. Facilitators prepared materials of possible interest and ensured there was material to teach, to reflect on, and to support participants to explore their own stories. However, each workshop was different. The content focus became tailored to each group. The facilitators did not cut off the conversation to keep the workshop on schedule, and dialogue meandered through the topics.

This conversational style was important to ensure that the workshops stayed engaging, shifted towards each group's curiosity and knowledge level, and gave room to examine challenging topics. This approach is part of a trauma-informed approach that honors and empowers participants to be active directors of their own learning.



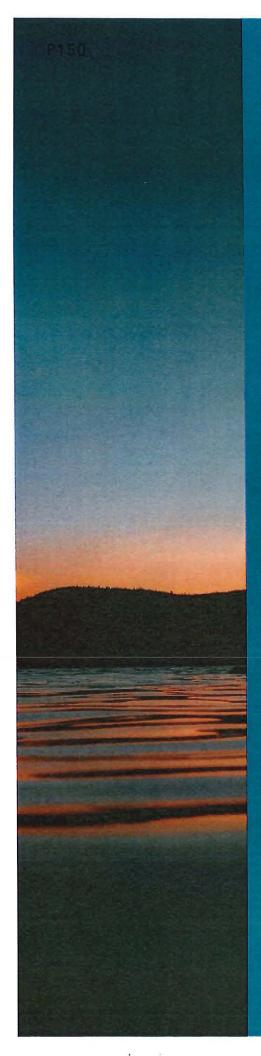
Community Webinar and Stakeholder Workshops

Next, two virtual sessions were conducted: an informative webinar for the community at large as well as a workshop for community champions and invited stakeholders. Each of the virtual sessions were 1.5 hours long and were more informative than conversational. They were designed to cover the same content about stigma and its impacts as the Lived Experience Workshops but emphasized addressing stigma through person-first language, using destigmatizing language, and addressing internal biases and stigmas.



How to address stigma

Participants, for the most part, expressed appreciation and enjoyed the workshops. Some noted that they were glad this was being discussed as it was "sorely needed." Participants appreciated the personal stories shared by facilitators. One concern raised by participants was that the message needed to be spread further to people who were not aware of what stigma is and how it affects people. Participants also wanted to be directed to actions they could take outside of their own attitudes and personal interactions. They were looking for places to volunteer, ways to advocate, or other active methods of continuing to break down stigma.



Insights Gained

Participants in all three workshops were highly engaged and reported learning valuable information. Participants with lived experience were particularly enthusiastic about the workshops and shared that they felt seen, heard, and understood. Some described it as healing to participate. Several individuals said they didn't know that other people were experiencing the same things or even that their experiences were being influenced by stigma, and that learning in a safe space made them feel better. The Lived Experience workshop was able to support people in seeing themselves as advocates rather than victims or targets.

Further insights include:

- » Use a trauma-informed approach to engage people with lived and living experience. This means planning ways to make engagement opportunities a safe space for sharing and providing options for follow-up support.
- » Collaborative relationships with community partners enhances the recruitment process. Local groups and organizations have built the connection and trust needed to meaningfully engage individuals. Take the time to clarify roles and commitments regularly.
- » Plan to promote engagement opportunities through various platforms and methods to ensure diverse audience groups are reached.
- » Consider and experiment with different formats for educational opportunities (e.g., full-day workshop versus two half-day workshops, self-directed options, etc.) to ensure adequate time is available to cover content and questions.
- » Virtual sessions require active conversation management. Use an array of conversation tools (e.g., Question and Answer feature, mute function, etc.) to guide the discussion and keep it on track.
- » Help participants connect their learning to action by preparing resources and opportunities and guiding them towards the next step.

WHAT WORKED WELL

Trauma-Informed Approach

Trauma-informed approaches to facilitation include recognizing that the impacts of trauma are widespread and have direct impacts on individuals and communities. Stigma towards poverty can cause trauma directly and indirectly through negative experiences such as rejection, repeatedly telling one's story through a negative lens to secure resources and service access, or perpetuating poverty due to a lack of awareness of services which could disrupt the cycle.

As part of this campaign, all workshops were designed with a trauma-informed approach.

- All workshops were prefaced with an introduction that included statements on personal safety and the availability of support during the workshop. Facilitators articulated that the topic can be highly emotional, outlined ways in which facilitators could support participants, and referenced resources for further support if needed.
- Facilitators "checked expectations at the door" to allow workshops to flow in the best way
 for each group. Taking a flexible approach to facilitate allowed participants in the Lived
 Experience workshops to direct their own experiences. Insights and experiences were
 encouraged, and participants shared freely.
- A "circle guardian" helped ensure people had support at any time during the workshop if desired. The guardian was a second facilitator who had the stated task of taking care of the workshop participants. They invited participants to indicate if they needed support and also had the power to pause the conversation at any point. If so, the guardian would direct the whole group to do a grounding activity (three deep breaths) before continuing the workshop. The guardian could check in on participants, keep time, add insight, and ensure the flow of the workshop. Having an option for participants to ask for some support during workshop without disrupting it is a helpful tool.

"The workshop allowed me to feel what I needed to in a healthy way."

Lived Experience workshop participant

Partnering with organizations for the Lived Experience workshops ensured that
participants were invited by a trusted person who was also available for follow-up if
needed. This structure ensures that existing trusted relationships are leveraged for the
benefit of participants.

Facilitators with Lived and Living Experience

It's important to consider the knowledge and presence of the workshop facilitator as the leader and tone setter for anti-stigma education. In this campaign, the workshop facilitator possessed lived experience of poverty and was able to draw on that experience during the webinar and workshops. By sharing personal stories throughout the classes, they were able to provide insights and relate the subject matter to real-life examples.

Timely and Relevant Content

Participants said repeatedly that the information and workshops were timely given other events in the community. An increase in visible homelessness and limits to available services for support has been a big topic in the community. This has brought out stigmas and fears on social media and other platforms. Participants were appreciative of the conversation. Some shared that they felt they had new tools to talk about difficult subjects, like homelessness.

"Thank you for the perspective and information. It really does outline the issues around stigma and barriers to anyone attempting to seek help."

Community webinar participant

OPPORTUNTIES FOR IMPROVEMENT

Promotion and Recruitment of Workshop Participants

Promotion for the community workshops proved more challenging than expected. Though recruitment for the Lived Experience workshops was successful, it was due to the efforts of partner organizations to promote and recruit participants. They recruited from within their own programs and contacts and as a result, were able to fill workshops and reach the desired number of participants.

The initial intention was that more project partners would promote the workshops and recruit people with lived experiences. While materials for this promotion were provided, it was found that posters were not effective for recruitment, or that recruitment through word of mouth, invitation, sharing with clients, etc. was not happening. Similarly, the majority of participants in the webinar and workshop were sourced through email invitation. Promotion through the City's website did result in many attendees for the webinar.

Recruitment efforts require energy and community champions to spread the word, share the event, and personally invite people. In the future, it would be best to clarify roles for promotion and ensure that project partners know how to promote and when to do so. It would be helpful to have dedicated champions of promotion and recruitment and clarify that commitment. Materials need to be provided well in advance alongside an agreed upon promotion strategy with roles.

Content and Conversation Management

The Lived Experience workshops were not allocated adequate time to cover all of the prepared material. As a new workshop, more information was included than there was time to present. In the future, it would be recommended to extend the workshop into either a full day or two half-day events to give space for action-oriented planning and discussion. Participants of all workshops were eager to talk about solutions but there was not enough time for this.

Alternatively, a pivot in future workshops to emphasize the healing nature of understanding stigma could replace some of the content on storytelling. The individual workbook activities could be discussed with interested participants in a follow-up workshop. Participant reflections could then become part of a group or individual storytelling exercise that creates sharable materials. For virtual sessions, it's important to have proactive conversation management and be prepared to redirect conversation when needed. In this iteration, participants had the option to unmute.

However, conversations about complex social issues can be extremely personal and fraught with emotion, sometimes leading to sidetracks in conversation. In the future, using the Question-and-Answer function instead of the chat function may be more effective to keep conversations on track.

Prepare a Call to Action

Participants in all workshops were keen to know how to take action after the workshops. While facilitators provided Lived Experience participants with materials and ideas around personal storytelling and resources, participants wanted more sustained actions. The question of "what's next?" arose at every event. This speaks to the eager and willing community of people in Salmon Arm who want to know how to improve the situation and support their community.

In the future, it would be good to consider facilitating these workshops in partnership with an organization or group that is working to do sustained anti-stigma work, or that is looking for volunteers. This would help give participants a place or path to channel their energy and actions after gaining more knowledge about poverty and stigma. These workshops would lend themselves well as an introduction to anti-stigma for volunteers, or as the first of a multi-part series that helps participants create their own content, such as a zine, social media page, or video.

Data and Metrics

Attendance and Community Participation

Date	Event	Participants
March 1	Lived Experience Workshop with Rise Up	6
March 2	Lived Experience Workshop with CMHA	9
March 3	Lived Experience Workshop with CMHA	14
April 1	Community webinar over Zoom (virtual)	20
April 3	Stakeholder workshop over Zoom (virtual)	10
Total unique individuals		69

Final Reflections and Recommendations

The Salmon Arm Poverty Reduction, De-Stigmatization, and Awareness Campaign helped improve social outcomes in several ways:

- 1. Facilitated healing and empowerment of individuals with lived experience by incorporating and elevating their voices in campaign activities.
- 2. Elevated the knowledge and voices of those with lived experience to promote empathy, community building, and personal reflection around poverty.
- Provided community members with the knowledge they need to better address prejudice and stigma in their daily lives and become better allies to those experiencing poverty.
- 4. Leveraged existing resources such as the Salmon Arm Observer and helped build on the work of skilled partners, improving the system of support in the community rather than adding complexity.
- 5. Strengthened the relationships between the City of Salmon Arm, the Social Impact Advisory Committee, and the Salmon Arm Observer who can continue to play key roles in shaping community narratives and advocacy.
- 6. Increased access to and availability of information about resources by promoting local services in the Salon Arm Observer, sharing information through articles about social serving organizations, and promoting BC 211.

The anti-stigma workshops for people with lived and living experiences had a deep impact. Participants were inspired and engaged. One participant came to the workshops twice, brought a friend the second time, and attended the public webinar. She reported that these workshops have inspired her to find her voice and become a champion. Another participant became an active volunteer at one of the partner organizations, helping to expand programming. We are told that she felt this was important because of her experience at the workshop. Conversations amongst almost all participants have continued between each other and with the partner organizations.

The campaign also tested new ways to share information about community resources. Multiple methods of communications and engagement were used to distribute information and engage the community in dialogue, including print media, social media, advertisements, and both virtual and in-person workshops. As a result, tens of thousands of residents in Salmon Arm were reached through the articles. For future projects or promotions, a multi-pronged approach seems to be a viable way to spread information in Salmon Arm.

Considerations to Address Gaps

Throughout this project three main gaps were observed that affected the outcomes of the project. While the project was successful overall, addressing these three gaps will:

- 1. Help continue and build on the success of this project.
- 2. Strengthen community preparedness to expand on this project and anti-stigma initiatives in general.
- 3. Continue to build awareness of services.
- 4. Continue to build connections, relationships, and skills of residents to support each other and their community.

Establish a Community Volunteer Organization

During the workshop series, a common comment or question from participants was, "What can we do next?" Whether it was looking for ways to tell their story, or seeking place to volunteer or advocate, participants of the workshops and webinar were highly engaged and vested in the topic of anti-stigma. There is a strong appetite for projects or tasks that can help reduce poverty and improve community wellbeing amongst Salmon Arm Residents.

However, knowing where to direct people was a challenge. There are many community organizations in the community, but their need for volunteers varies. Recruiting and training volunteers can put pressure on organizational capacity, and applying to multiple organizations to find the right fit for a volunteer can be draining on the person wishing to offer their time and skills. Finding the best use of volunteer time takes thoughtful coordination and people who can manage application, intake, training, skills assessment, and assignment for volunteers. Similarly, that person(s) can support organizations in identifying what roles they can ask for volunteer support with, determine the scope of the roles, and assist with recruitment.



February 2023

SHUSWAP SURVIVAL GUIDE

If you would like help navigating services contact

CMHA Service Navigator:

Denise Butler 250-832-8477 X102 Or email: denise.butler@cmha.bc.ca

Complied by: CMHA Shuswap-Revelstoke 433 Hudson Ave N.E. Box 3275 Salmon Arm, BC V1E 4S1 Tel: 250-832-8477 Fax: 250-832-8410

www.shuswap-revelstoke.cmha.bc.ca www.facebook.com/CMHAshuswaprevelstoke/



Canadian Mental Health Association Shuswap-Revelstoke Mental health for all

Please note that inclusion of an organization does not indicate its endorsement by CMHA, nor does its exclusion imply lack of approval.

Contact CMHA to update any changes of service.

Salmon Arm currently does not have a volunteer coordination or volunteer bureau program outside of singular organizations. Given the expression of a desire to help, even if 50 percent of workshop participants volunteered for even four to eight each month, that is 34 volunteers providing between 136 and 272 hours of community support each month!

Enhance and Promote BC 211

Providing an up-to-date, informative, and easy to use resource guide or service directory remains a challenge. Locally, the CMHA produces a community services guide. This brochure is distributed by CMHA and provided online. Peers at CHMA Shuswap-Revelstoke took the lead on editing, researching, and formatting the guide. It includes resources for the Shuswap area related to medical services, food security, community supports, government services, Indigenous community supports, legal resources, municipal services, crisis support, mental health and substance use, transportation, employment, libraries, housing, and access to basic needs (like hygiene).

The ongoing challenge with print resources such as this guide is ensuring it reaches the right audience. Presently the guide is shared with agencies and online. Another challenge is that printed guides are static, capturing the resources at a moment of time rather than being able to add updates regularly. They take a lot of work to produce and distribute. These are important resources for community, though, and distribution can be supported by efforts from the SIAC and other agencies to ensure the information is printed and displayed in as many places as possible.

Alternatively, there is BC 211. However, any directory is only as good as the information provided. It is still under-utilized, according to statistics collected to date. This service utilization can be improved by:

- Increased promotion to a broader audience Other promotional means may help, such as
 flyers in grocery stores, recreation centers, or other areas where a wide cross-section of
 people may be exposed to them, or online promotion.
- Increased participation by local services Local services have the option of updating their listings as regularly as they like via email. Keeping up to date on listings requires capacity (such as an assigned staff person) but can help the public be aware of services.
- 3. Further work with BC 211 to support promotion and listing updates This is still a relatively new service. Communication with BC 211 indicates that there is a strong desire to make this service relevant for all BC residents. The program's early origins in the Lower Mainland mean that their historical data and tracking originate from larger metropolitan areas. Adapting this service to serve smaller communities will take time. There may be opportunities to partner together and collaborate to find solutions for promotion in this new context. BC 211 is a funded program that may be able to come with resources for this type of work.



Increasing the Availability of Peer Supports

Peer driven programming is limited in availability in Salmon Arm. CMHA Learning Studios offers peer support workers and a variety of programming, and other organizations offer a range of programs where peers with shared experiences can meet and connect. However, during this campaign, no peer-led and facilitated organization or group was identified. Peer voices (those of people with lived and living experience of a subject or situation) can offer support, guidance, and unique perspectives to the community that help identify barriers and remove obstacles for people.

Peer programs could include but are not limited to:

- Peer navigator programs for accessing services
- Peer advocacy groups
- Peer support groups

Considerations for Next Steps

The City of Salmon Arm and the SIAC have identified themselves as convenors in the community related to social well-being. The responsibilities connected to this role and for continued momentum with this anti-stigma work include supporting the community through being a facilitator and communicator. Moving forward, the City of Salmon Arm and SIAC can continue to work with community agencies to promote services in the community and support anti-stigma efforts. In support of this role, the following opportunities are offered for consideration:

Promoting and Tracking Social Service Referrals

- The community can continue BC 211 promotion through the distribution of flyers or
 posters, available from BC 211. Posting an advertisement for their services on the City's
 and SIAC members' websites would help enhance visibility of the resource in the
 community.
- BC 211 collects data on the kinds of services that are requested, and referrals made. This
 information could support the SIAC in identifying emerging needs in the community. There
 is also an opportunity for the Committee to help share information with service providers
 on how to update their information and maintain accuracy on BC 211 as their services may
 change periodically.

Building on Momentum in the Community

- Now that this workshop has been created it can be replicated. A future project may be to
 extend the Stigma Busting Through Storytelling workshop concept to include writing
 workshops and perhaps publication of those stories. Some communities have produced
 online video content or other social media spaces for sharing lived experience stories.
- The Salmon Arm Observer is interested in continuing to write and publish stories that help reduce stigma on community issues. As a resource and partner, community serving organizations can reach out to the editorial team with stories, events, or opportunities for the community to get involved and keep the conversation going.
- Explore supporting a community partner or organization's volunteer network. A Salmon
 Arm volunteer coordination organization could help to connect interested community
 members with volunteer positions. This kind of structure can also increase the capacity of
 organizations to host volunteers by supporting with training, screening, and intake
 processes. Building a network of volunteers who have some training and support to take
 on roles in the community would help to both build organizational capacity and assist
 caring community members to find ways to contribute.

Overall, this pilot-and-test campaign has surfaced several key learnings that can be used for future initiatives and campaigns. By collecting data and embracing iterative improvements, the City of Salmon Arm, the SIAC, and its partner can make informed decisions that ultimately lead to more effective and successful implementations.

Item 19.1

CITY OF SALMON ARM

Date: June 12, 2023

The following motion was released from the In-Camera Council Meeting of May 23, 2023:

0041-2023 (ic)

THAT: Council authorize the request from the Salmon Arm Folk Music Society to construct improvements on the City owned property located at $541\,3^{rd}$ Street SW subject to building permit approval.

CARRIED UNANIMOUSLY

TEL 250.833.4096 FAX 250.833.4097 EMAIL info@rootsandblues.ca
WEB rootsandblues.ca

MAILING Box 21, Salmon Arm, BC V1E 4N2
LOCATION 541-3rd St SW, Salmon Arm, BC V1E 1S9

May 15, 2023

City of Salmon Arm Box 40 100 - 30 Street SE Salmon Arm, BC V1E 4N2

Attn. Erin Jackson, Chief Administrative Officer RE: Permission to build projects

Dear Erin:

The Salmon Arm Folk Music Society is seeking approval from the City to pursue two construction projects on the City owned property located on 541 3rd St SW, Salmon Arm.

The SAFMS intention with the City's support is to construct:

- 1. A new detached storage/works building;
- 2. Add 7 rooms (4 top and 3 bottom floor) to the building on the property currently used for an office.

Attached to this message you will find the preliminary building plans for the two construction projects.

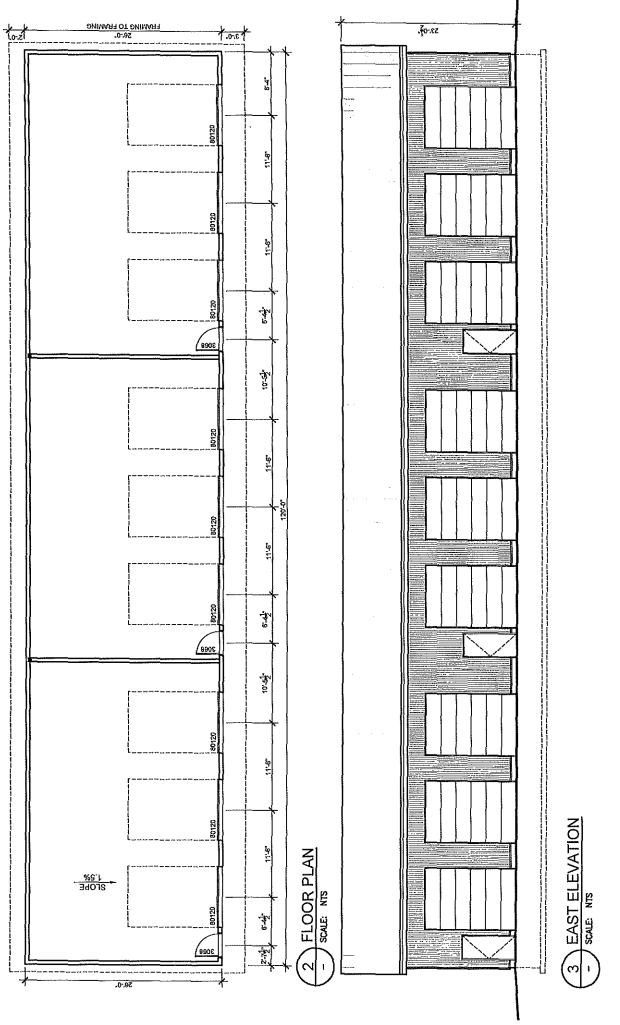
In the past seven years, SAFMS has invested to improve the property and we plan to spend up to \$225,000 internal funds on this project. Additional funding (\$221,250) to complete the project has been generously provided by the BC Arts Infrastructure grant program. The Provincial funding requires the project to be completed by the end of 2025.

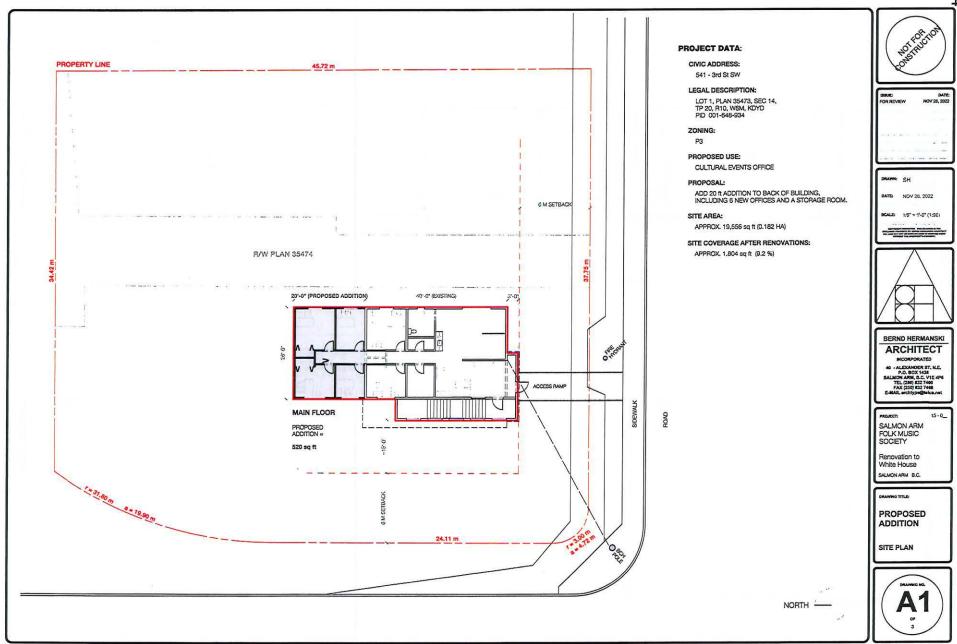
Please do not hesitate to contact me if you require more information.

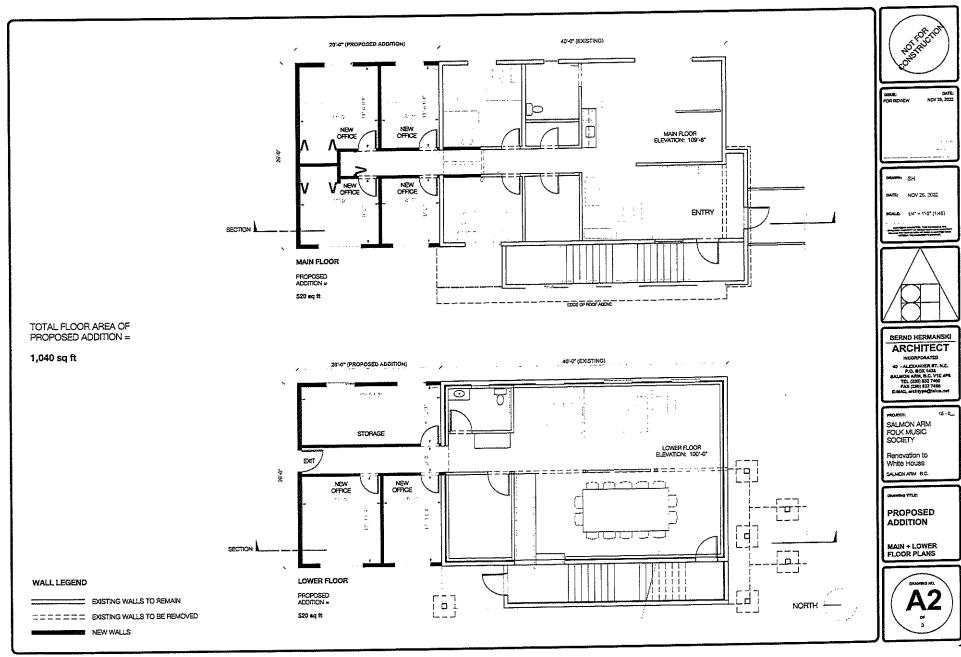
Thank you,

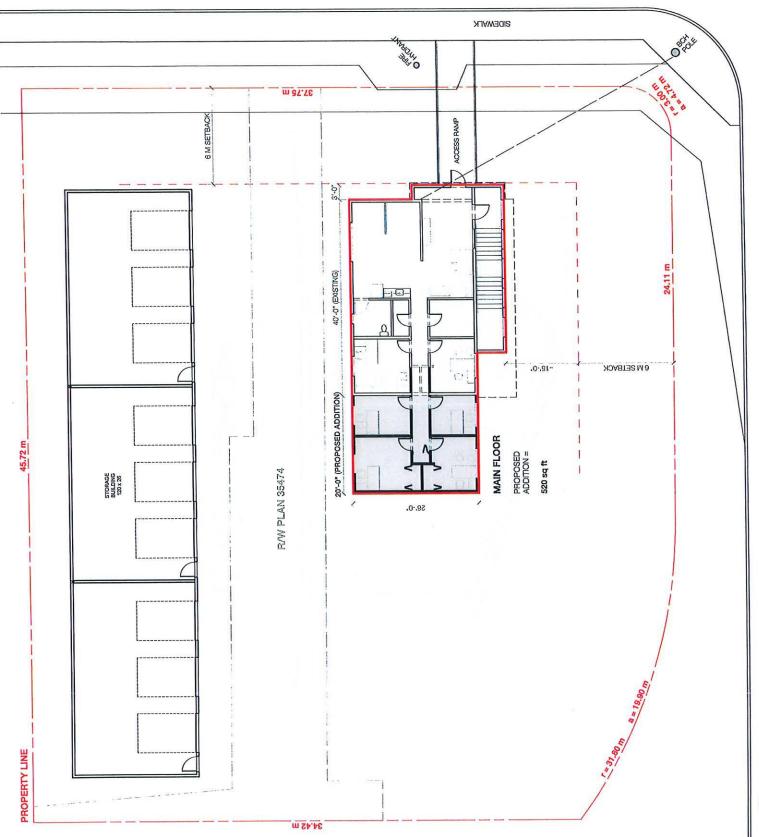
Toni Starkell Administrative Services Manager clerical@rootsandblues.ca



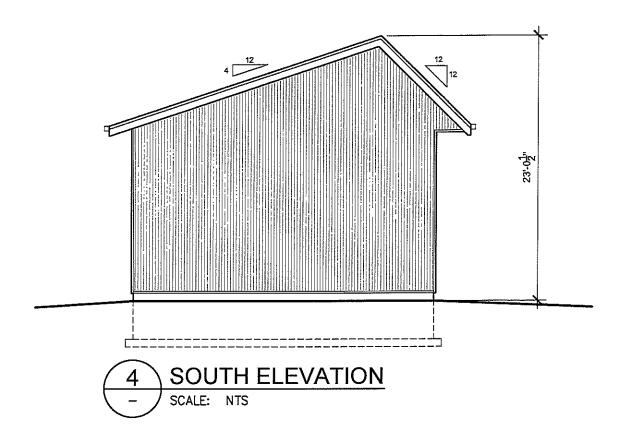












Item 22.1

CITY OF SALMON ARM

Date: June 12, 2023

Moved: Councillor

Seconded: Councillor

THAT: Development Variance Permit No. VP-581 be authorized for issuance to vary the Subdivision and Development Servicing Bylaw No. 4163, for the 30 Avenue NE frontage of That Part of the North East ¼ of Section 19 shown on Plan B4242; Township 20; Range 9, W6M, KDYD, waiving the requirement to upgrade 30 Avenue NE, including road widening and ditching.

[Vandermeer, R. & M.; 2900 40 Street NE; Servicing requirements]

SALMONARM

TO:

His Worship Mayor Harrison and Members of Council

DATE:

June 8, 2023

SUBJECT:

Development Variance Permit Application No. VP-581 (Servicing)

Legal: That Part of the North East 1/4 of Section 19 Shown on Plan B4242; Township 20;

Range 9, W6M, KDYD

Civic Address: 2900 40 Street NE

Owner/Applicant: Ruth and Mike Vandermeer

MOTION FOR CONSIDERATION

THAT:

Development Variance Permit No. VP – 581 be authorized for issuance to vary the Subdivision and Development Servicing Bylaw No. 4163, for the 30 Avenue NE frontage of That Part of the North East ¼ of Section 19 Shown on Plan B4242; Township 20; Range 9, W6M, KDYD, waiving the requirement to upgrade 30 Avenue NE, including road widening and ditching.

STAFF RECOMMENDATION

THAT:

Development Variance Permit No. VP – 581 be authorized for issuance to vary the Subdivision and Development Servicing Bylaw No. 4163, for the 30 Avenue NE frontage of That part of the North East ¼ of Section 19 Shown on Plan B4242; Township 20, Range 9, W6M, KDYD, to waive the requirement to upgrade 30 Avenue NE, subject to the owner providing the required road dedication (approximately 3.965m);

AND THAT:

the owner submit a cash in lieu payment amounting to the cost of upgrades to 30 Avenue NE (including road dedication and ditching) minus the value of the road dedication (including legal and surveying fees). The final amount of the cash in lieu payment shall be approved by the City Engineer.

PROPOSAL

The applicant is requesting to waive servicing upgrades that would be triggered by the proposal for the construction of a single family dwelling. A letter submitted by the applicant in support of their application is attached as Appendix 5.

BACKGROUND

The subject property is approximately 6.11ha (2.47ac) in area (see Appendices 1 and 2). The subject property is designated Acreage Reserve in the City's Official Community Plan (OCP) (Appendix 3). The subject property is zoned A2 (Rural Holding Zone) in Zoning Bylaw No. 2303 (Appendix 4). The A2 zoning permits agricultural development and limits residential development to a single family dwelling and a Rural Detached Suite. The subject property is within the Agricultural Land Reserve (ALR).

Adjacent land uses include the following:

North: A2 (Rural Holding Zone) – Agriculture and Single Family Residence South: A2 (Rural Holding Zone) – Agriculture and Single Family Residence

A2 (Rural Holding Zone) - Agriculture and Single Family Residence West: A2 (Rural Holding Zone) - Agriculture and Single Family Residence

The applicant has submitted a Building Permit for a single family dwelling. As a requirement under the Building Permit, the applicant is required to upgrade 30 Avenue NE to the Rural Local Road (RD-7) Standard. Cost estimates, provided by the applicant's consulting Engineer, for the upgrades are \$77,042.96. 30 Avenue NE in this section is approximately 198m in length (Appendix 6). Servicing upgrades to the 40 Street NE frontage are not required. The subject property does not use 30 Avenue NE for access.

COMMENTS

Engineering Department

The Engineering Department has provided comments which form the basis for the above staff recommendation. The Engineering Department comments are attached as Appendix 7. Staff do not support the variance request and cite that the existing road width does not accommodate two-way traffic, therefore, road dedication and a cash in lieu contribution for the future improvement of 30 Street NE is needed to address this concern. Staff have presented a compromise that should the owner dedicate the land needed to widen the road, the land value, legal and survey costs incurred by the owner can be deducted from the cash in lieu contribution.

At the June 5, 2023 the Development and Planning Services Committee requested that staff provide estimates for land surveying, legal and land values. The information is included as Appendix 8.

Building Department

No concerns

Fire Department

No response

Public Consultation

Pursuant to the Local Government Act and the Development Variance Permit Procedures Bylaw notices are mailed to land owners within a 30m radius of the application. The notices outline the proposal and advises those with an interest in the proposal to provide written submission prior to the Hearing and information regarding attending the Hearing. It is expected that the Hearing for this application will be held on June 12, 2023.

Planning Department

When considering servicing variances a number of factors are taken into consideration, including physical or legal constraints such as ALR status, scale of proposed development and growth potential in the area. The subject property is outside the Urban Containment Boundary and is within the ALR - development potential on the subject property and adjacent properties is limited given the lack of servicing, OCP polices and ALR designation.

Generally, road improvements, such as road widening and construction, occur at the time of development or as capital projects. Lands within the Acreage Reserve designation of the OCP have limited development potential and there are few infrastructure demands in these areas due to lower density. Infrastructure improvements in the Acreage Reserve area are rarely made a priority as capital projects and with limited development potential infrastructure improvements through development do not occur often. The Subdivision and Development Servicing Bylaw is structured so that should a Building Permit be applied for there is an opportunity for the City to evaluate existing infrastructure and require levels be brought to current standard. In the staff analysis of a servicing variance, the timing and location of capital projects and the development potential of adjacent lands are considered.

Staff recognize that there are constraints on future development potential in the area; however, completely offsetting the cost of upgrading and construction of 30 Avenue NE onto the future developer/land owners or the City is problematic. Waiving the requirements entirely would place additional financial burden on the City for the improvements in the future or increase costs onto future developers of adjacent properties. Staff do not recommend the variances as requested by the applicant be granted and have provided an alternative to providing the full scope of servicing requirements.

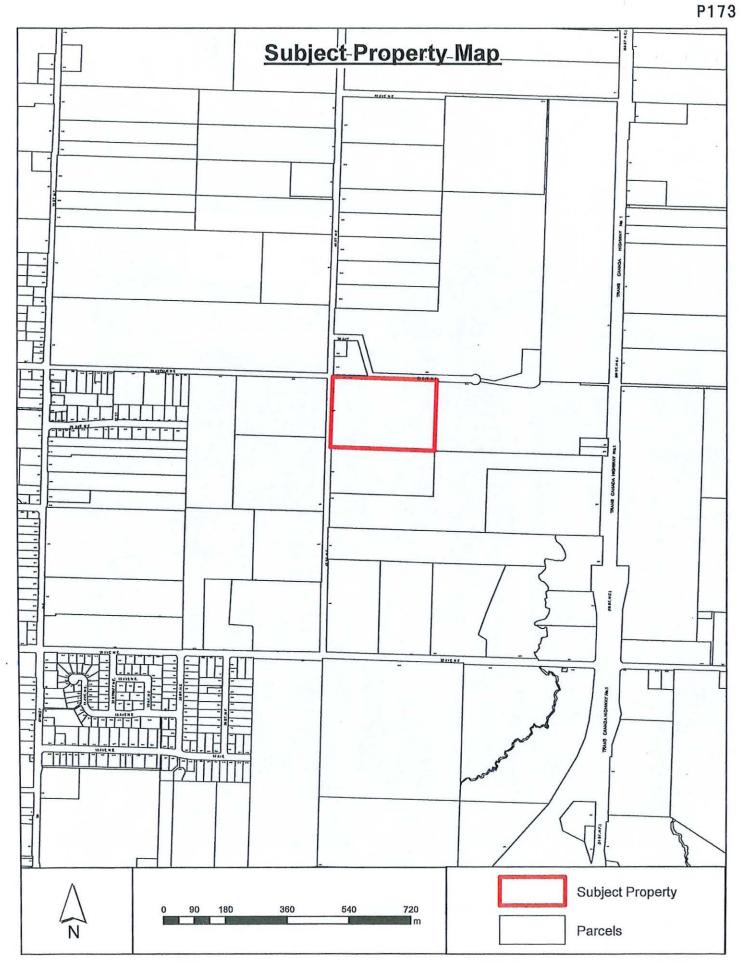
Prepared by: Melinda Smyrl, MCIP, RPP

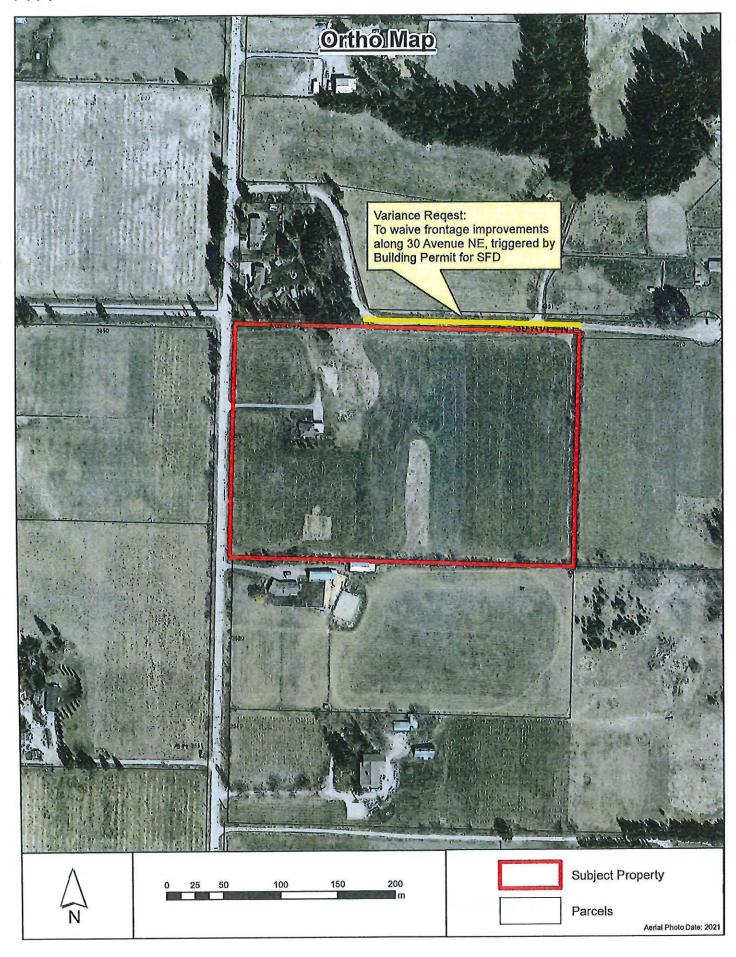
Planner

Reviewed by: Gary Buxton

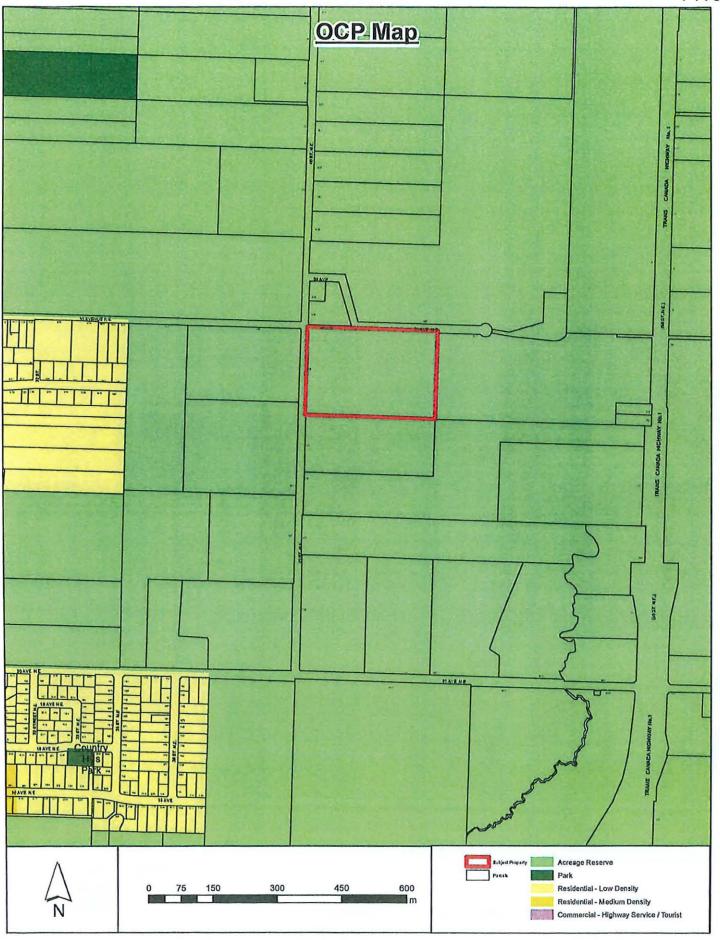
Director of Planning and Community

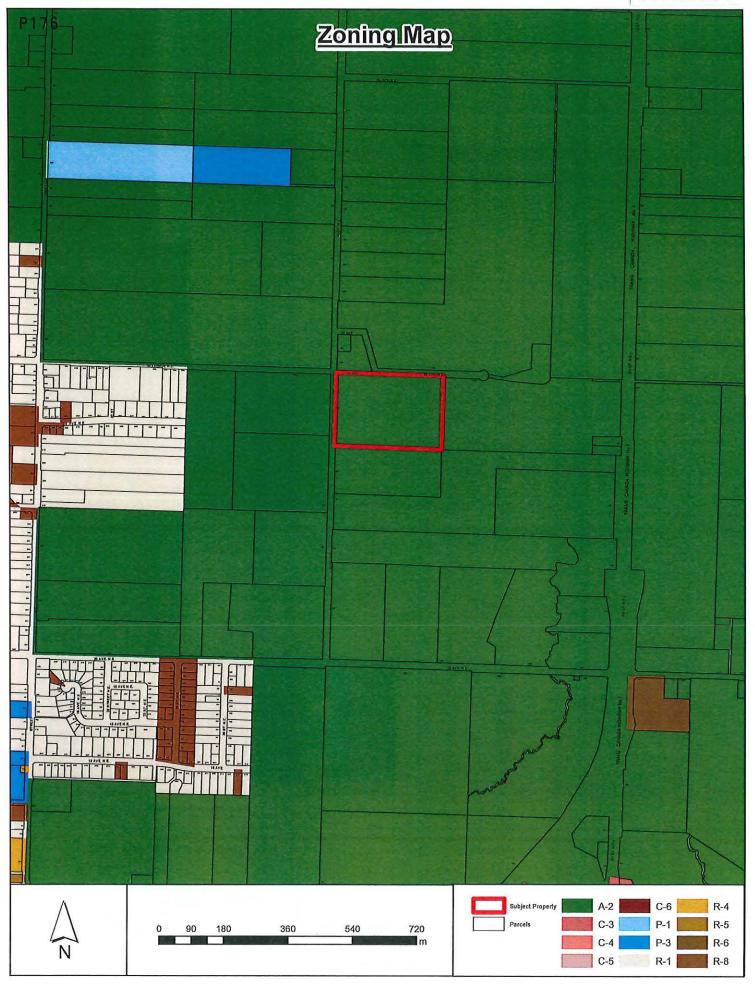
Services





P175





March 16th 2023

Variance permit Application: Ruth and Mike Vandermeer

Requesting variance to Bylaw #4163

History (Refer to attached aerial view of property and adjacent properties)—The City of Salmon Arm has requested road upgrades under Bylaw 4163 to 30th Ave Ne. These upgrades have been triggered by our residential building permit.

Property Address: 2900 40th St. NE

Property Size: 15 Acres

Construction type: Single family residence

Current Building Permit # 17267B

Property Description: Our property is bordered on the west by 40th Street NE (Paved Road), which provides sole access to our (under construction) residence via the existing driveway. To the North, part of our property is bordered by 30th Ave NE, which ends in a cul-de-sac. This road provides access to 3 rural properties. The road works being requested by the City are where 30th Ave NE partially runs parallel along our property line on the North side

Rationale for variance request - Refer to Bylaw 4163

Section 3.0:

3.1.2 (i) There is no need for the capacity for increased flow as;

- a) 30 Ave NE is a no through road that ends in a cul-de-sac.
- b) Just 3 rural properties are accessed along 30 Ave NE at or near the end of the cul-de-sac. All are zoned A-2 and are designated as Acreage Reserve in the OCP. None of these properties are likely to be developed in the future
- c) We will not be requiring any access to our property via 30 Ave NE. We will be accessing our new home via the existing driveway off 40th St. NE
- d) We are not developing our property. We are simply building a single family home. We would understand if we were subdividing and requiring access and services off 30 Ave NE. Such a development would result increased traffic flow, but that is not the case with our construction.

3.1.2 (ii) Safety is not a concern:

- a) We are not now, nor will we in the future be drawing on any services that may be present along 30 Ave NE
- b) If safety has been a concern in the past, then why hasn't the City addressed it already?

Section 5.0:

5.3.1 (a)(b) Exemptions

- a) The bylaw plainly states that new works and services <u>shall not be required</u> where
 - a. "The Development is limited to the construction of an addition to a Low Density Residential Dwelling or the construction of a Building or Structure accessory to a Low Density Residential Dwelling" We understand that ours is not an addition to an existing low density dwelling, but we don't understand why the building of a new home of the same location as the old home,

- which utilizes no more land including building and landscaping as the old home, would face different rules as an addition. Theoretically, certain additions to homes may require different access, or require services on an adjacent street – why would those be exempt?
- b. "Existing Works and Services have sufficient capacity for any demands directly attributable to the proposed Development." Our construction in no way impacts any existing works and services in place along 30th Ave NE

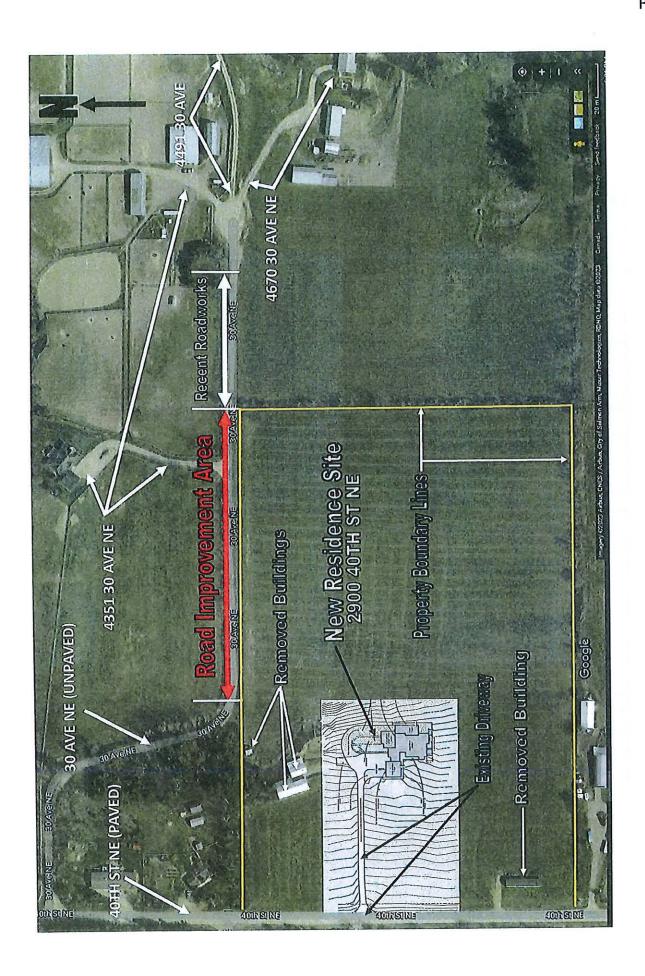
Further:

- 1. As mentioned, 30th Ave NE does not provide any access to our property, therefore, the upgrades would provide no value or benefit to us in any way no additional or improved access or services and no increase in property value. Any improvement to this road would be for the sole benefit of the 3 rural properties that are accessed from 30 Åve NE.
- 2. 30th Ave NE has received recent upgrades (ditching/grading) to the East of our property line extending towards the end of the road at the cul-de-sac. These improvements end at our property line on the Northeast corner. We are not sure why these improvements weren't completed to extend along 30th Ave NE where it runs parallel to our property.
- 3. We are not developing our property. We are simply rebuilding a new home on a pre existing home site. We would understand if we were subdividing and requiring access and services off 30th Ave NE as a development would result in increased traffic flow etc., but that is simply not the case.
- 4. With the addition of our new home onto this property, the City will benefit from an increase in assessment value and thusly, increased tax revenue for many years to come. That in turn will help provide funding for any future upgrades to 30th Ave NE

Thank you for your attention and consideration.

Ruth Vandermeer

Mike Vandermeer



MIKE AND RUTH VANDERMEER OCTOBER 2022 2900 - 40th STREET NE SUBDIVISION OPINION OF PROBABLE COST

SCHEDULE OF APPROXIMATE QUANTITIES AND UNIT PRICES (*Denotes Nominal Quantity)

item No.	DESCRIPTION OF WORK	UNIT	QUANTITY	UNIT PRICE \$	AMOUNT \$
1.0	ROADS AND EARTHWORKS SECTION 1				
1.1	Clearing & Grubbing	LS	1	\$ 5,000.00	\$ 5,000.00
1.2	Common Excavation and Disposal	m³	890 *	\$ 20,00	\$ 17,800.00
1.3	Supply & Place Sub-Base	m³	240 *	\$ 75,00	\$ 18,000.00
1.4	Supply & Place Base	m³	25 *	\$ 95.00	\$ 2,375.00
1.5	Supply & Place Shouldering	m³	25 *	\$ 150.00	\$ 3,750.00
	Sub-Total: Roads and Earthworks				\$ 46,925.00
2.0	STORM SEWER WORKS SECTION 4				
2.1	Ditching	m	190 *	\$ 45.00	\$ 8,550.00
	Sub-Total: Storm Sewer Works				\$ 8,550.00

	SUMMARY					
1.0	ROADS AND EARTHWORKS		1		\$	46,925.00
2.0	STORM SEWER WORKS				\$	8,550.00
					\$	55,475.00
3,0	ENGINEERING	 	.		-	
	Design/inspection/Records (as per quote)		\$	16,235.00		
	Geotechnical Testing (3%)		\$	1,664.25	\$	17,899.25
			_			
	SUB-TOTAL				\$	73,374.25
	GST (5%)		+		\$	3,668.71
	TOTAL				\$	77,042.96

- *Opinion of Probable Cost Notes
- Quantities may vary depending on field revisions and/or conditions encountered at the time of construction, thereby
 affecting the final cost.
- Unit Prices are influenced by supply & demand for both contractors and materials at the time of construction, thereby
 affecting the final cost.
- 3) Prices do not include BC Hydro, Telus, Gas, Legal Survey (BCLS) and property/right-of-way acquisitions.
- 4) Prices do not include Geotechnical, Environmental and Archaeological studies, reviews and approvals.
- 5) Unit Prices are estimated in 2022 Canadian Dollars for similar works and exclude taxes.

Association of Professional Standard St

EGBC #1000946



Memorandum from the Engineering and Public Works Department

TO:

Director of Development Services

DATE:

11 May 2023

PREPARED BY: Chris Moore, Engineering Assistant

SUBJECT:

VARIANCE PERMIT APPLICATION FILE NO. VP-581 R. Vandermeer, - 2900 - 40 Street NE, BC V1E 1Z6

OWNER: AGENT:

Mike Vandermeer

LEGAL:

That Part of the North East 1/4 of Section 9 Shown on Plan B4242:

Township 20, Range 9, W6M, KDYD

CIVIC:

2900 - 40 Street NE

Further to the request for variance dated 23 March, 2023; the Engineering Department has reviewed the site and offers the following comments and recommendations relative to the requested variance.

The applicant is requesting that Council waive the requirements of the Subdivision and Development Servicing Bylaw No. 4163 (SDSB) to upgrade the frontage on 30 Avenue NE to the Rural Local Road (gravel) standard (RD-7).

Background:

Where construction of a home is proposed on bareland within the rural area, the SDSB requires full upgrade of the road(s), works and services within the property's frontage. This generally helps to bring the existing City roads closer to the current approved standards.

The subject property has extensive frontage onto 40 Street NE which is constructed to the current rural standard, and no upgrades are required. However, the property also has frontage onto 30 Avenue NE at rear / side of the property which currently only has a road width of 4.5 to 5.2m, with no shoulder. The RD-7 standard is 7.3m road width with a 1.25m shoulder, and it is generally accepted that for two vehicles to pass safely a minimum width of 6.0m is required.

Insufficient road width makes two way traffic difficult, especially in rural areas with large farm vehicles. However, 30 Avenue NE is a very quiet cul-de-sac with only 3 properties beyond the subject property and further subdivision is not supported by the OCP.

It is noted that the City does not have sufficient dedication in this location to widen the road and ditching, and 3.965m additional dedication is required (to be confirmed by a BCLS). Widening could be completed under a right of way from the subject property, which can be requested at Building Permit stage, but it would be preferable if the applicant was willing to provide the additional 3.965m dedication that is required.

Recommendation:

The Engineering Department recommends that the request to waive the requirements of the Subdivision and Development Servicing Bylaw No. 4163 (SDSB) to upgrade the frontage on 30 Avenue NE to the Rural Local Road (gravel) standard (RD-7) be denied. The current road width does not meet the bylaw standard and although 30 Avenue NE has low traffic volumes, widening the road to allow for two way traffic will improve traffic safety in this location. Should the owner be willing to provide the additional 3.965m of dedication that is required from the subject property on the 30 Avenue NE frontage, staff would support a cash in lieu payment for the future road widening less the value of the dedication given, together with legal and surveying costs.

Chris Moore

Engineering Assistant

Gabriel Bau P.Eng.,

ColvelBu

City Engineer

Address	Legal	Survey	Area	BC Assessment	Per m² rate	Estimated	Estimated	OPC
		-		Land Value	based on BC	value for land	Costs for Land,	
				(2023)/	Assessment	area for road	Legal Fees and	:
				Parcel Area	Land Value	dedication	Surveys	
				(GIS)	(2023)			
2900 40 St NE VP-581	\$5,000	\$15,000	,	\$54,283/ 60,769m²	\$0.93/m²	\$733.80	\$20,733.80	\$77,042.96

Item 22.2

CITY OF SALMON ARM

Date: June 12, 2023

Moved: Councillor

Seconded: Councillor

THAT: Development Variance Permit No. VP-567 be authorized for issuance to vary the Subdivision and Development Servicing Bylaw No. 4163, for the frontage of Lot 1, Section 30, Township 20, Range 9, W6M, KDYD, Plan EPP123104 as follows:

- i) waive the installation of a bike lane (including ditching);
- ii) waive the provision of a Statutory Right of Way in favour of the City for the bike lane; and
- iii) waive the installation of one (1) fire hydrant.

[McLeod, T./Launch Construction Ltd.; 3390 30 Street NE; Servicing requirements]

2. <u>Development Variance Permit Application No. VP-567 [McLeod, T./Launch Construction Ltd.; 3390 30 Street NE; Servicing requirements]</u>

Moved: Councillor Cannon Seconded: Councillor Lindgren

THAT: the Development and Planning Services Committee recommends to Council that Development Variance Permit No. VP-567 be authorized for issuance to vary the Subdivision and Development Servicing Bylaw No. 4163, for the frontage of Lot 1, Section 30, Township 20, Range 9, W6M, KDYD, Plan EPP123104 as follows:

- i) waive the installation of a bike lane (including ditching);
- ii) waive the provision of a Statutory Right of Way in favour of the City for the bike lane; and
- iii) waive the installation of one (1) fire hydrant.
- T. McLeod, the applicant, outlined the application and was available to answer questions from the Committee.

DEFEATED UNANIMOUSLY

Moved: Councillor Lavery Seconded: Councillor Flynn

THAT: Development Variance Permit No. VP-567 be authorized for issuance as follows:

- i) waive the installation of a bike lane (including ditching); and
- iii) waive the installation of one (1) fire hydrant.

AND THAT: the owner provide the road dedication for the required off-site works.

CARRIED UNANIMOUSLY

CITY OF SALMONARM

To:

His Worship Mayor Harrison and Members of Council

Date:

June 8, 2023

Subject:

Variance Permit Application No. VP-567 (Servicing)

Legal:

Lot 1, Section 30, Township 20, Range 9, W6M, KDYD, Plan EPP123104

Civic Address:

3390 - 30 Street NE

Owner:

Terry McLeod

Agent/Applicant: Launch Construction Ltd. (Brad Long)

MOTION FOR CONSIDERATION

THAT:

Development Variance Permit No. VP-567 be authorized for issuance to vary the Subdivision and Development Servicing Bylaw No. 4163, for the frontage of Lot 1, Section 30, Township 20, Range 9, W6M, KDYD, Plan EPP123104 as follows:

- waive the installation of a bike lane (including ditching);
- ii) waive the provision of a Statutory Right of Way in favour of the City for the bike lane: and
- iii) waive the installation of one (1) fire hydrant.

STAFF RECOMMENDATION

THAT:

Development Variance Permit No. VP-567 be authorized for issuance to vary the Subdivision and Development Servicing Bylaw No. 4163, for the frontage of Lot 1, Section 30, Township 20, Range 9, W6M, KDYD, Plan EPP123104 as follows:

- waive the installation of a bike lane (including ditching) and; i)
- ii) waive the installation of (1) fire hydrant.

AND THAT:

the owner provide the road dedication for the required off-site works;

AND FURTHER THAT: the applicant/owner submit a cash in lieu payment amounting to the cost of bike lane installation (including road dedication and ditching) minus the value of the road dedication (including legal and surveying fees). The final amount of the cash in lieu payment shall be approved by the City Engineer.

PROPOSAL

The applicant is requesting to vary Subdivision and Development Bylaw No. 4163 to waive the requirement to upgrade the existing roadway to the required standard. The requirements to upgrade the road frontage are triggered by a building permit for a single-family dwelling. The owner has provided a letter of rationale in support of their application (Appendix 6).

BACKGROUND

The subject property is in the North Broadview area and is designated Acreage Reserve (AR) in the City's Official Community Plan (OCP), zoned A-2 (Rural Holding) in the City's Zoning Bylaw and is entirely within the Agricultural Land Reserve (ALR) (Appendices 1 to 5). The property is approximately 30 acres in size and currently contains an older (built in 1930) single-family dwelling (that is to be demolished) and two

accessory buildings/structures. All lands within the ALR are subject to the regulations of the Agricultural Land Commission.

Adjacent land uses include the following:

North: single family dwelling and accessory buildings/structures (ALR) Zoned A-2

South: vacant lot (ALR)

Zoned A-2
East: single family dwelling and accessory buildings/structures (ALR)

Zoned A-2

West: 30 Street NE; single family dwellings Zoned A-2, R-1, & R-8

COMMENTS

Fire Department

No Fire Department concerns.

Engineering Department

Engineering staff have provided a response to the application (Appendix 7). The RD-9 Rural Arterial Road Cross-Section is included as Appendix 8. An Opinion of Probable Costs (OPC) provided by Lawson Engineering is included as Appendix 9. The OPC amount of \$162,910.44 does not include surveying or legal costs that may be associated with the construction of the works. The approximate area affected by the improvements is shown on the map included as Appendix 10.

Staff are recommending that the owner provide a cash in lieu payment for the installation of the bike lane and ditching so that the works may be completed at a later date. Typically, the cash in lieu amount is calculated from the OPC that is provided by the owner's consulting engineering. However, given the complexity of the legal status of the road, staff is recommending that this be taken into account. The amount suggested is calculated by obtaining the value of the land (total area for road, bike lane and ditching) and subtracting the legal and surveying costs undertaken by the owner.

As shown on Appendix 10, the subject property line extends to the centerline of 30 Street NE. In this location, 30 Street NE fronting the subject property is deemed by staff to be a *Transportation Act* Section 42 Road, meaning that if public money is spent on a travelled road, then the travelled portion (asphalt to asphalt) is deemed and declared to be a highway. City records indicate that 30 Street NE has been maintained as a public road.

The required off-site works are to be constructed outside of the existing asphalt area, beyond that portion of "Section 42" road. In order to construct the required off-site works, the total area of road, bike lane and ditching must either be dedicated to the City as 'road' or a statutory right of way granted in favour of the City. The dedication or right-of way area is approximately 2022m² and would have to be confirmed by a surveyor. Appendix 10 shows the approximate amount of land that that would be needed for the road dedication or Statutory Right of Way.

It should be noted that at the time that the bike lane and ditching is to be installed by the City it is likely that ALR regulations would require additional approvals from the ALC in order to permit a trail corridor through ALR land.

As noted in the staff recommendation and the enclosed report from the Engineering Department, waiving the requirement to install one fire hydrant is supported as Engineering staff feel that the installation of the fire hydrant would not significantly improve fire safety, while at the same time would increase on-going maintenance costs in an area with limited infrastructure.

At the June 5, 2023 Development and Planning Services Committee meeting, the Committee requested that staff provide cost estimates for land values, surveying and legal costs. The information is attached as Appendix 11.

Building Department

No concerns.

Public Consultation

Pursuant to the Local Government Act and City of Salmon Arm Development Variance Permit Procedures Bylaw, notices are mailed to land owners within a 30m radius of the application. The notices outline the proposal and advise those with interest in the proposal to provide written submission prior to the Hearing and information regarding attending the Hearing. It is expected that the Hearing for this application will be held on June 12, 2023.

Planning Department

Development Variance Permits are considered on a case-by-case basis, and in doing so, a number of factors are taken into consideration. These factors include site-specific conditions, such as lot configuration and connecting new infrastructure to existing infrastructure to ensure continuity of services.

30 Street NE is designated as both an Urban Arterial Road and Rural Arterial Road, meaning it is an important corridor for facilitating movement through the community. Staff note that the adjacent parcels to the west of the subject property along this corridor have development potential (i.e. all have the potential to rezone to R-8 to permit either a secondary or detached suite) and highlight the need to consistently meet the standards required along this key roadway.

30 Street NE is identified as a "bike route" in Map 12.2 – Cycle Network Plan of the OCP. The City of Salmon Arm is committed to making it safer, easier, and more enjoyable to walk, bicycle, and use other forms of active transportation, as detailed in Connect Salmon Arm, the City's Active Transportation Network Plan (ATNP). 30 Street NE is noted in the ATNP. The request to waive this requirement entirely is not supported by staff.

CONCLUSION

The minimum servicing levels specified by the City's Subdivision and Development Servicing Bylaw have been adopted to ensure that basic infrastructure is provided to support development. The implication of granting variances to minimum service levels is that these costs (the burden of providing minimum servicing) are then deferred to future property owners or the City (taxpayers).

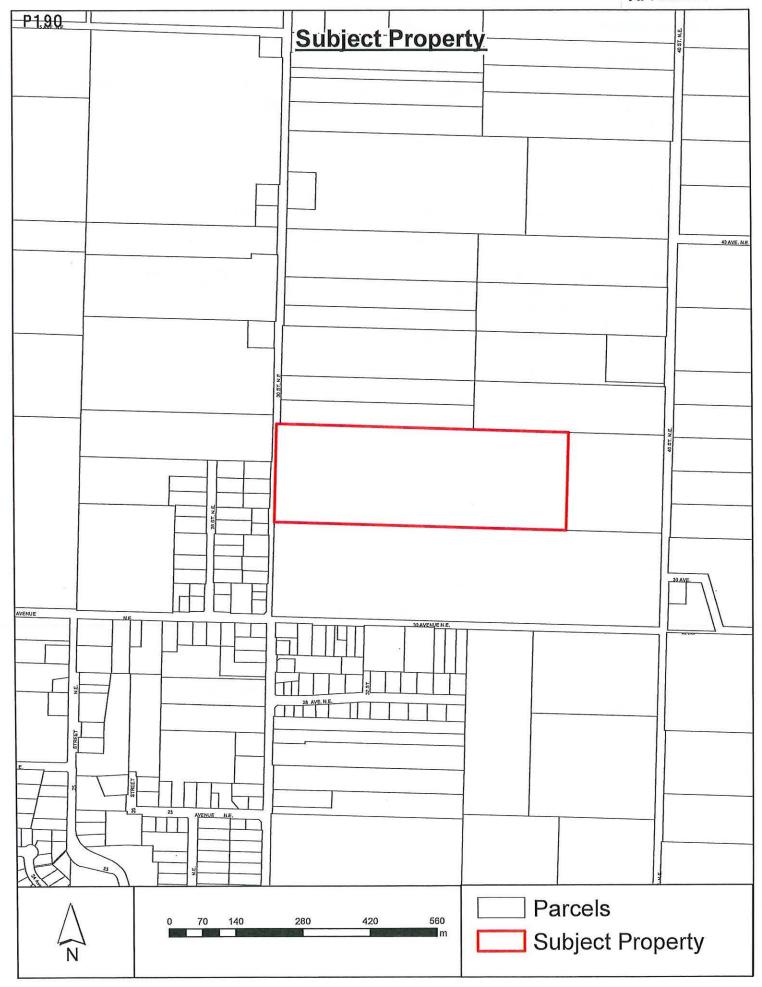
Staff recognize the financial constraints on development; however, waiving the requirements of the Subdivision and Development Servicing Bylaw No. 4163 would place an additional financial burden on the City for those improvements in the future or increase costs onto future developers of adjacent properties. As such, Staff recommends the requested variance to waive the requirement to construct facilities be denied, and that cash in lieu be provided.

Prepared by: Melinda Smyrl, MCIP, RPP

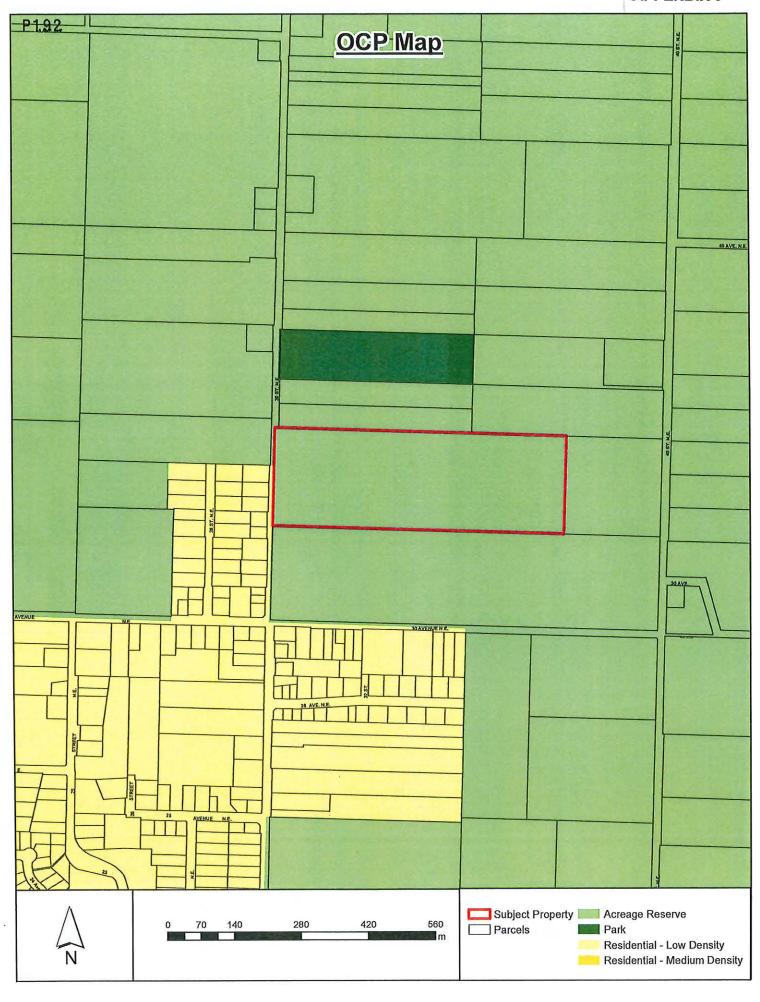
Planner

Reviewed by: Gary Buxton, MCIP, RPP
Director of Planning and Community

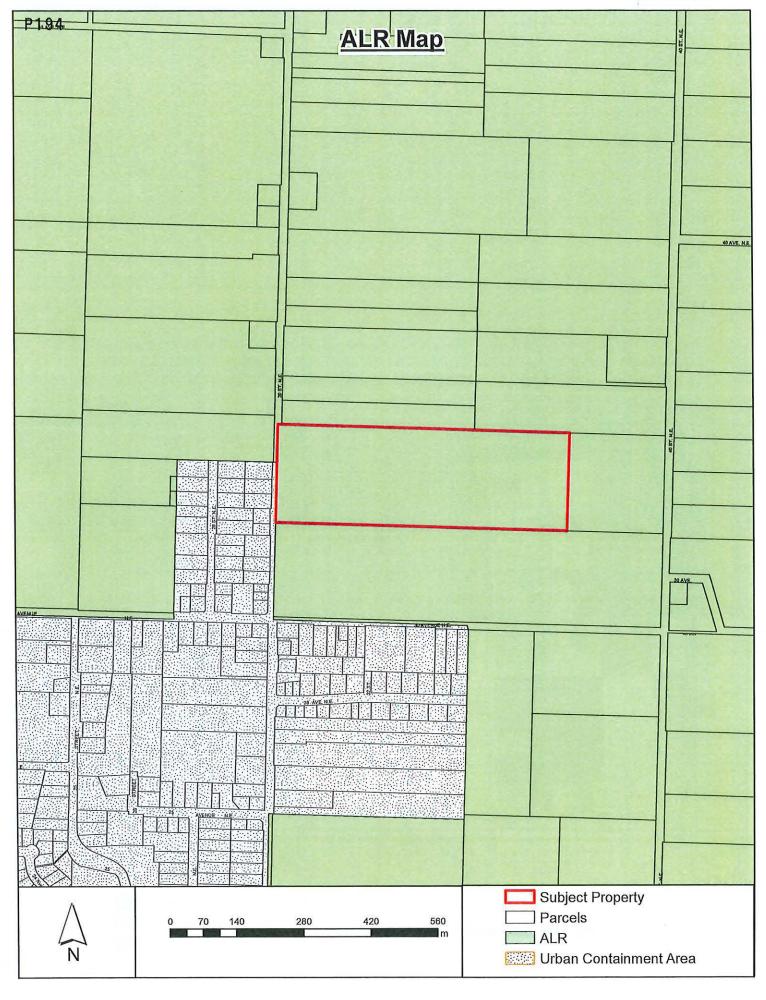
Services











From: Terry McLeod <>

> Sent: Wednesday, February 15, 2023 9:42 AM

> To: Maurice Roy <>; Evan Chorlton

>>; Adam Bux

> Subject: [External] Letter to Salmon Arm Mayor and City council

> Mayor and City Council Salmon Arm

February 15, 2023

- > My name is Terrance (Terry) McLeod, I purchased 30 acres of farm land in the city limits address of 3390-30 St NE in the spring of 2022. I planned on building a homestead with the intention of raising some feeder cows, keeping my horses and putting up my own feed of alfalfa for the rest of my workable years. I am 59 years old, I was born and raised in NE BC where I also farmed. I moved to Alberta 13 years ago where I had a ranch and farmed also, sold that ranch last spring before moving back to Salmon Arm.
- > I have had the main services put in, most of which I did on my own with a small back hoe and cat I own. I have built a hay/equipment shed and shop with a small 800 sq ft suite on one end of the building. This suite was originally planned for my ranch hand who was to live there and assist me in the haying and raising cows. I will now be residing in it until you, the city decides.
- > I hired an architect out of Vernon, brought on a house building contractor out of Blind Bay to assist me with the construction of my new and final home. We followed the regulations set by the city and ALC for building restrictions to the T, I have done all permitting as required, and much to my surprise, Salmon Arm comes back with having requested I install lights, sidewalks, fire hydrants and a possible bike lane in front of my acreage.
- > I have sent in a letter from Lawson Engineering asking for a variance to these requests as I would be the only acreage on the street with this in front. I am also asking for a variance regarding the deposits for future upgrades. I had to have the property surveyed at the request of city planning and development. When I had this done, it was brought to my attention that my property line is still out to the center line of the 30ST road way. This was never removed from my title and it is my property today.
- > I will forgive the property to the center line for any upgrades requested, I will also want the city to pay for any surveys required to move the property line. I will also request that the city forgive me of any future upgrade costs in lieu of these, I will hand the property back to the City of Salmon Arm. I paid 27,000\$ to have the property surveyed, I will not be spending any more on surveys for the city to use at their disposal. Let's move forward and please allow my variance of building my final home at peace. > I would like to build my house without anymore surprises, let me live on my dream acreage and retire with some cows, horses and putting up hay for feed.
- > Yours truly, honestly, Terry McLeod.
- > Terry McLeod



Memorandum from the Engineering and Public Works Department

TO:

Gary Buxton, Director of Planning

DATE:

1 May 2023

PREPARED BY:

Chris Moore, Engineering Assistant

SUBJECT: OWNER:

VARIANCE PERMIT APPLICATION FILE NO. VP- 567
T. McLeod, PO Box 10038 Salmon Arm, BCV1E 3B9

APPLICANT:

Launch Construction Ltd., 2154 Eagle Bay RD. Blind Bay, BC V0E 1H1 THE NORTH ½ OF THE SOUTH ½ OF THE SOUTH WEST ¼ SECTION 30

TOWNSHIP 20 RANGE 9 W6M KDYD EXCEPT PLAN 3127

CIVIC:

LEGAL:

3390 - 30 Street NE

Further to the request for variance dated March 20, 2023; the Engineering Department has reviewed the site and offers the following comments and recommendations relative to the requested variances.

The applicant is requesting that Council waive the following requirements of the Subdivision and Development Servicing Bylaw No. 4163 (SDSB):

1. Waive the requirement to upgrade 30 Street NE to the RD-9 Rural Arterial Road Cross Section

Background:

30 Street NE is designated as a Rural Arterial Road and upgrading to the RD-9 standard is required under the SDSB. Upgrades required include bike lane construction and associated road widening and ditching.

30 Street NE is heavily used by vehicles and the Active Transportation Network Plan (October 2022) identifies 30 Street NE as part of the City's Long Term Bicycling Network.

During the development of this property, it became apparent that the City does not own any dedication on the east side of 30 Street NE and that the property's title currently extends to the centre line of the road. This portion of 30 Street NE is considered to be a Section 42 road, as when public money has been spent on a travelled road that is not a highway, the travelled road is deemed and declared to be a highway. The City does not therefore require dedication to maintain use of the road, although dedication would be required if the City wants to widen the road in the future.

Recommendation:

Since the City's Active Transportation Network Plan identifies 30 Street NE as part of the City's Long Term Bicycling Network, the Engineering Department recommends that the request to Waive the requirement to upgrade 30 Street NE to the RD-9 standard be denied. There is

little benefit in installing a cycleway on a short length of 30 Street NE and the Cycleway would be better done on a larger scale as part of a Capital Works Project. Staff would therefore recommend taking a cash in lieu payment for upgrading to the RD-9 standard. The City would also require a right of way over the property for the construction of the cycleway, but since the owner has indicated a willingness to provide the City with full dedication, staff would recommend that the cash in lieu payment be reduced by the value of the dedication given, together with legal and surveying costs.

2. Waive the requirement to install one new fire hydrant.

Background:

One additional Fire Hydrant is required to meet the Low Density spacing requirement of 150 meters, as required by the SDSB. However, based on the Rural spacing requirement of 300m, the spacing requirements are already met. The southern half of the lots on the west side of 30 Street NE are in the Urban Containment Boundary, with the northern half and the subject property being located in the Rural area. It is accepted practice on roads with mixed zoning to work to the highest standard. However, in this instance an additional fire hydrant will be of little benefit as based on the Urban spacing to the south and Rural spacing to the north, all properties are already covered.

Recommendation:

The Engineering Department recommends that request to waive the requirement to install one new fire hydrant be approved. An additional hydrant in this location, although required by the SBDB will not significantly improve fire safety and will leave the City with increased ongoing maintenance costs.

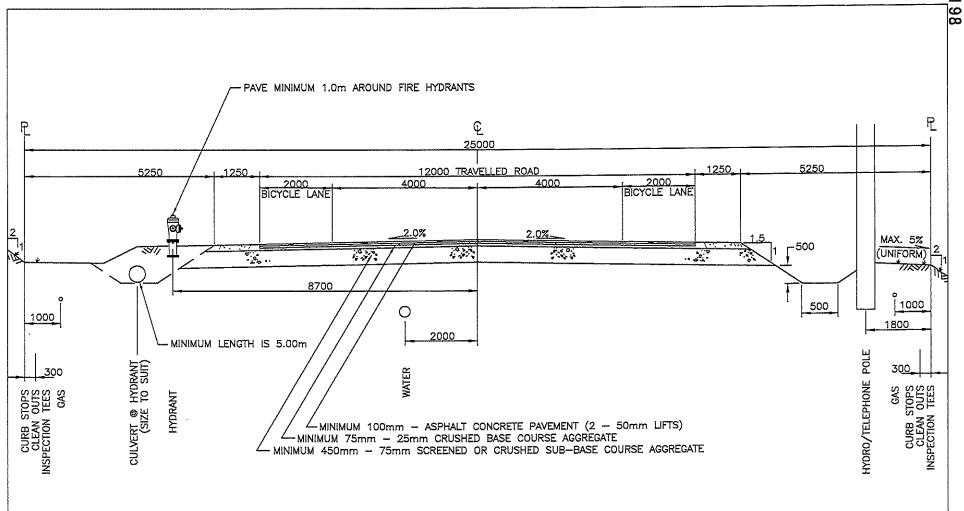
Chris Moore

Engineering Assistant

Gabriel Bau P.Eng.,

Cohiel Br

City Engineer



NOTES:

- 1) Where gravel surface is permitted, crossfall shall be 4.0%
- 2) Drainage shall be sheet drainage, no point load drainage permitted
- All materials shall be supplied and placed in accordance with schedule B, Part 3.0 and Schedule D, Approved material list.
- Grades in excess of 2H:1V shall be recommended by a geotechnical engineer and approved by the City Engineer.

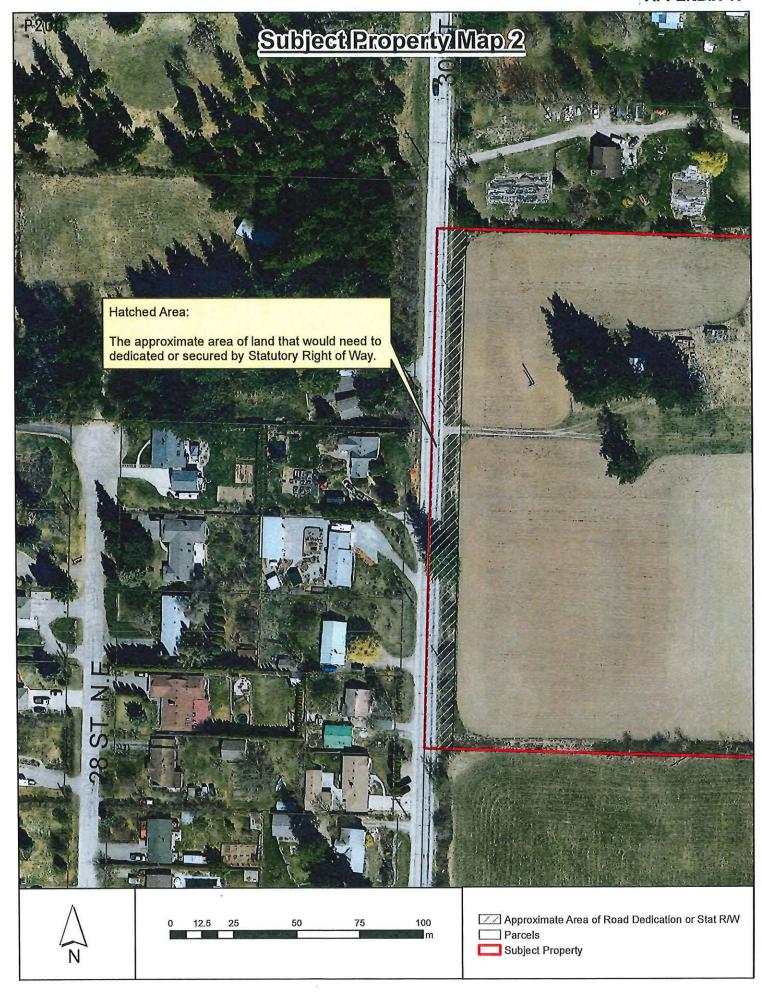
Sali	CITY OF SALMON	ARM	25m R/W	Rural Arterial Road	d Cross—Section
No.	Revision	Date	Date	Approved	SPECIFICATION DRAWING No.
Α	ISSUED FOR APPROVAL	07/14/16		01/1/	DIOMINING NO.
			10-11-2016	920	RD-9 l
				/ City Engineer	



3390 30th Street NE 13-Mar-23 Class D Opinion of Probable Cost

NO.	DESCRIPTION OF WORK	UNIT	QUANTITY	UNIT PRICE	AMOUNT \$
1.0	ROADS AND EARTHWORKS				
1	Supply & Install Asphalt - Bicycle lane (100mm)	m2	407	48.00	19,536.00
2	Remove & Dispose Asphalt	m2	50	25.00	1,250.00
3	Supply & Place 25mm Crushed Base Course	m3	85	80.00	6,800.00
4	Supply & Place 75mm Crushed Granular Sub-Base Course	m3	380	60.00	22,800.00
5	Common Excavation & Disposal	m3	500	18.00	9,000.00
6	Asphalt Milling - Key-in Joints	m	204	7.00	1,428.00
7	Boulevard Grading & Ditching	LS	1	2,000.00	2,000.00
8	Bike Lane Painting	LS	1	4,500.00	4,500.00
9	Power Pole Relocation	ea	4	12,500.00	50,000.00
2.0	WATER WORKS				
11	Supply & Install Fire Hydrant Assembly c/w 150Ø x 150Ø x 150Ø HFF Tee, Gate Valve, and 150Ø Lead	LS	1	11,980.00	11,980.00
	SUMMARY				
1.0	ROADS AND EARTHWORKS				\$ 117,314.00
2.0	WATERWORKS				\$11,980.00
	SUB-TOTAL:				\$129,294.00
	ENGINEERING (10%)				\$ 12,929.40
	CONTINGENCY (10%)				\$ 12,929.40
	SUBTOTAL				\$155,152.80
	GST (5%)				\$7,757.64
	TOTAL				\$ 162,910.44
	 Quantities may vary depending on field revisions and/or conditions encountered at the time of construction, thereby affecting the final cost. 				
	Unit Prices are influenced by supply & demand for both contractors & materials at the time of				
	construction, thereby affecting the final cost.				





Address	Legal	Survey	Area	BC Assessment Land Value (2023)/ Parcel Area (GIS)	Per m ² rate based on BC Assessment Land Value (2023)	for land area for	for Land, Legal	
3390- 30 St NE VP-567	\$5,000	\$10,000	202.263 x 10m (Both measurement from survey) = 2022.63 m2	\$126,831/ 123,485m2	\$1.03/m2	\$2083.30	\$17,083.30	\$162,910.44

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CITY OF SALMON ARM

Date: June 12, 2023

Moved: Councillor

Seconded: Councillor

THAT: Development Variance Permit No. VP-574 be authorized for issuance for Lot 2, Section 11, Township 20, Range 10, W6M, KDYD, Plan 1915 Except Plan EPP115809, and Lots 2, 4, 6, 8, 10 & 12, Township 20, Range 10, W6M, KDYD, Plan EPP115809 which will vary the following provisions of Subdivision and Development Servicing Bylaw No. 4163 and Zoning Bylaw No. 2303 as follows:

- i. Subdivision and Development Servicing Bylaw No. 4163, Section 4.11.4 extend the maximum permitted cul-de-sac length from 160 metres in length in Urban Development Areas to 249 metres for the future 8 Avenue SE, and
- ii. Zoning Bylaw No. 2303, Section 4.12.1(a) Fences and Retaining Walls increase the maximum permitted combined height of a fence in conjunction with a retaining wall from 2 m (6.5 feet) to 6 m (19.7 feet).

[0695662 BC Ltd./Massier, G.; 1631 10 Street SE and 1561, 1581, 1621, 1641, 1661 and 1681 9 Street SE; Servicing and Retaining Wall requirements]

SALMONARM

TO:

His Worship Mayor Harrison and Members of Council

DATE:

May 23, 2023

SUBJECT:

Development Variance Permit Application No. VP-574 (Servicing and retaining wall) Legal: Lot 2, Section 11, Township 20, Range 10, W6M, KDYD, Plan 1915 Except Plan EPP115809, and Lots 2, 4, 6, 8, 10 & 12, Township 20, Range 10, W6M, KDYD,

Plan EPP115809

Civic Address: 1631 - 10 Street SE, 1561, 1581, 1621, 1641, 1661 & 1681 - 9 Street SE

Owner: 0695662 BC Ltd Agent: Massier, G.

MOTION FOR CONSIDERATION

THAT:

Development Variance Permit No. VP-574 be authorized for issuance for Lot 2, Section 11, Township 20, Range 10, W6M, KDYD, Plan 1915 Except Plan EPP115809, and Lots 2, 4, 6, 8, 10 & 12, Township 20, Range 10, W6M, KDYD, Plan EPP115809 which will vary the following provisions of Subdivision and Development Servicing Bylaw No. 4163 and Zoning Bylaw No. 2303 as follows:

- Subdivision and Development Servicing Bylaw No. 4163, Section 4.11.4 extend the maximum permitted cul-de-sac length from 160 metres in length in Urban Development Areas to 249 metres for the future 8 Avenue SE, and
- ii. Zoning Bylaw No. 2303, Section 4.12.1 (a) Fences and Retaining Walls increase the maximum permitted combined height of a fence in conjunction with a retaining wall from 2 m (6.5 feet) to 6 m (19.7 feet).

STAFF RECOMMENDATION

THAT:

Council support the Motion for Consideration.

PROPOSAL

The proponents submitted a subdivision application in January 2019 (Letter of Conditions issued in response on June 26, 2019) to subdivide the parcel at 1631 10 Street SE into forty-one (41) residential parcels (Appendix 1 & 2). This subdivision application triggers works and services, including extending the road network through the subject parcel to provide access to lands beyond to the north, south, and west, none of which are developed at this time. Prior to road installation on the adjacent parcels, the applicant has requested that Council vary the Subdivision and Development Servicing (SDS) Bylaw requirement for cul-de-sac length to allow their development to proceed. As well, the applicant has requested the Zoning Bylaw requirement for the combined height of a fence and retaining wall be increased across multiple parcels.

BACKGROUND

The subject parcel is within Area B on the eastern edge of the Hillcrest residential area, located just west of 10 Street SE and the Byer's View subdivision. The application to subdivide proposes future roads (8 and 9 Avenue SE) and 41 new parcels approximately 600 to 800 square metres in area (Appendix 2).

The future 8 Street SE is intended to continue to both the south and west and eventually connect to the larger future road network within Area B, while the 9 Street SE is intended to extend south beyond the subject parcel, with an emergency access to 10 Street SE under development by the applicant.

The parcel is designated "Residential Low Density" in the City's Official Community Plan (OCP), is within the Urban Containment Boundary, and is zoned Residential Suite Zone (R-8) in the Zoning Bylaw (Appendix 3 & 4). The R-8 Zoning request was approved by Council in 2019. Site photos are attached as Appendix 5. The applicant has provided plans detailing their requests attached as Appendix 6.

COMMENTS

Engineering Department

Comments attached as Appendix 7 provide recommendation to support requests.

Fire Department

Recommendation of support for requests noting future road connections.

Public Consultation

Pursuant to the *Local Government Act* and City of Salmon Arm Development Variance Permit Procedures Bylaw notices are mailed to land owners within a 30m radius of the application. The notices outline the proposal and advises those with an interest in the proposal to provide written submission prior to the Hearing and information regarding attending the Hearing. It is expected that the Hearing for this application will be held on June 12, 2023.

Planning Department

Cul-De-Sac Length

The length of a dead end road is restricted in order to limit the number of vehicles using a single access point, as well as to ensure emergency vehicle access and minimize associated safety risks. The applicant is requesting a variance to the SDS Bylaw to advance their subdivision to permit development within an area of limited road access, as shown in Appendix 6.

OCP policy 13.3.9 supports utilizing the SDS Bylaw to identify works and services required at time of subdivision. The purpose behind servicing requirements is to ensure that properties under development are connected to the expected municipal systems and to ensure that each system, including the City's road network, is extended to mitigate any gaps.

Within this development, 8 Street SE and 9 Street SE offer some contrasting elements. The installation of the emergency access route connecting 9 Street SE to 10 Street SE will allow 9 Street SE to meet the 160 m cul-de-sac length requirement once completed. 9 Street is expected to ultimately remain a cul-de-sac on the adjacent parcel to the south, with no connection or continued access to the south.

8 Street SE falls within a different category as it is intended to connect to a larger road network within Area B which is not yet developed. While it may be a dead end road for some time, 8 Street SE must be considered in a separate category from 9 Street NE as it is not intended to remain as a dead end and will ultimately offer connections to multiple routes for access and exit.

As development advances within Area B prior to connections being established, the City must contend with a preliminary road network. Staff note that there is no timeline for the required infrastructure instalment over the adjacent lands and some concerns exist with limited access routes. However, staff support the variance be granted for the cul-de-sac length of the future 8 Street SE with the understanding that future connections will be developed.

Fence and Retaining Wall

OCP Policy 8.3.22 suggests minimizing cut, fill and retaining walls on hillside areas, as well as the preparation of grading plans prior to servicing and construction. As noted in the OCP, a grading plan undertaken in advance can help ensure consistency between neighbouring parcels and could proactively direct a related variance application to address steep slopes across multiple parcels.

The applicant has provided such a grading plan (Appendix 6) and requests the variance across multiple parcels. Considering the steep slopes present and to avoid future variance requests, staff appreciate that the applicant has taken this approach for consistency across the proposed parcels. The grading plan details two retaining walls along a shared rear parcel line. The variance requested would apply to both walls as presented, with the 6 m height request accounting for the tallest possible point of a combined retaining wall and fence structure. Staff note that the 6 metre height requested is the maximum height on the southern parcels and that the size of the wall decreases moving north across the terrain.

Staff do have a concern regarding the requested variance considering the following:

1. The 6 m increased height requested is relatively large with respect to the 2 m maximum, which should be considered in combination with the proposed wall's length across multiple parcels, which could create an overall imposing structure.

However additional factors also affect this parcel and should be considered with the requested variance, primarily the steep terrain (Appendix 8), and further that the undeveloped parcels most affected are in the hands of the developer. Further, Staff note that the proposed walls are set back from the parcel lines, allowing for maintenance access, as well as an opportunity for landscaping to mitigate the visual impacts (although such landscaping would be up to the homeowner).

Thus, in support of the requested variance, staff note the following:

- 1. There is an opportunity (at the homeowner's discretion) for landscaping to mitigate the visual impact of the proposed retaining wall;
- 2. The setbacks from parcel lines allow for maintenance access;
- The steep sloping terrain provides a reasonable rationale for some form of retaining wall to create level yard areas across this development, a common approach for single family;
- 4. The applicant's lot grading plan allows for consideration across multiple parcels; and
- 5. The bulk of the affected parcels are owned by the developer and a future purchaser will be able to consider the presence of the retaining wall.

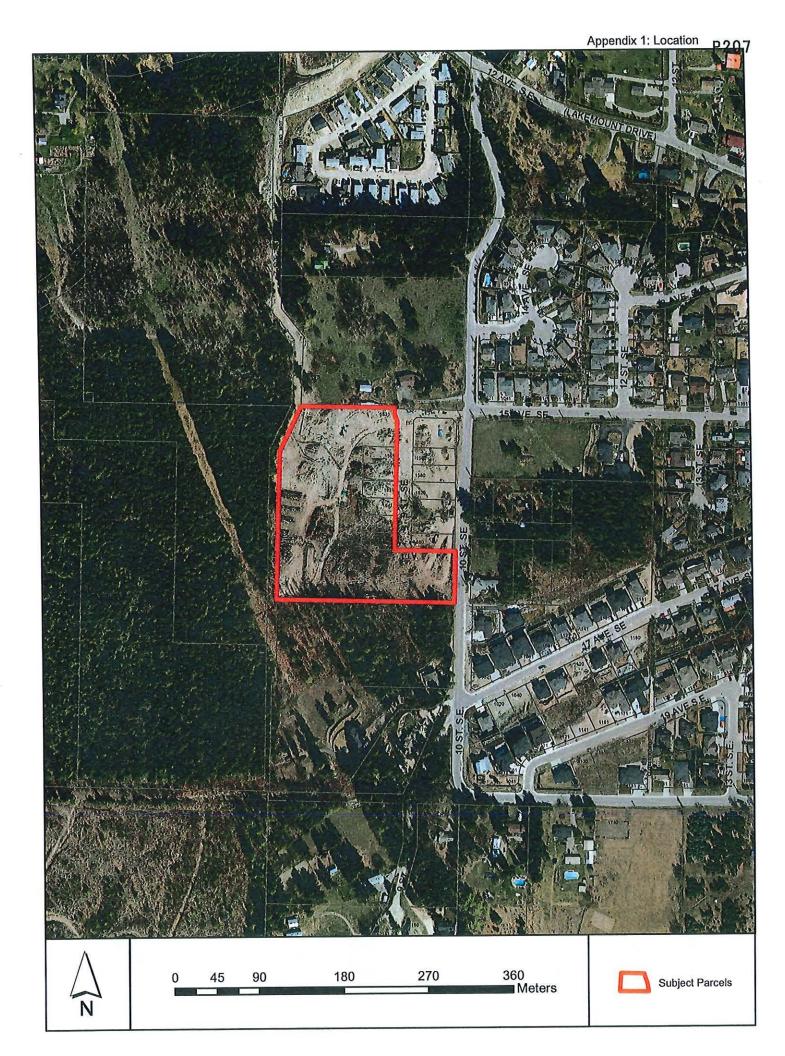
CONCLUSION

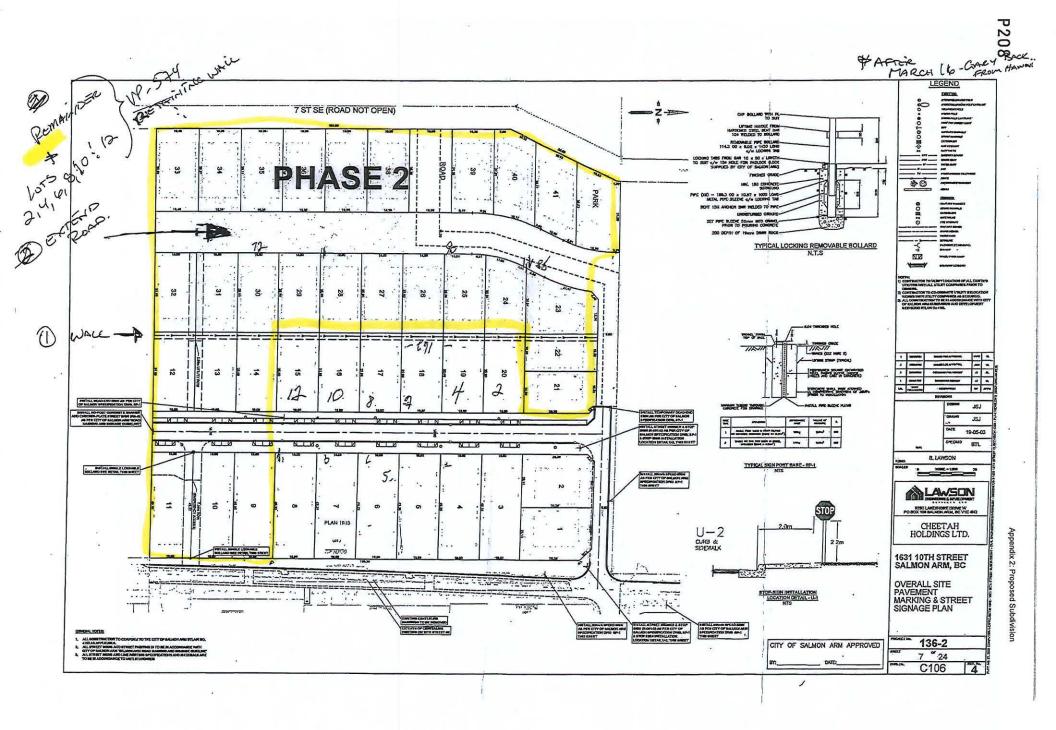
Staff support the requested cul-de-sac length extension for 8 Street SE given the expected future road network connections. While considering the retaining wall staff would typically not support a variance of such magnitude, however factoring in the steep slopes, the largely undeveloped stage of the area, the siting of the retaining walls off the parcel lines (allowing for maintenance and potential landscaping), and the applicant's comprehensive approach, staff support the requested variance.

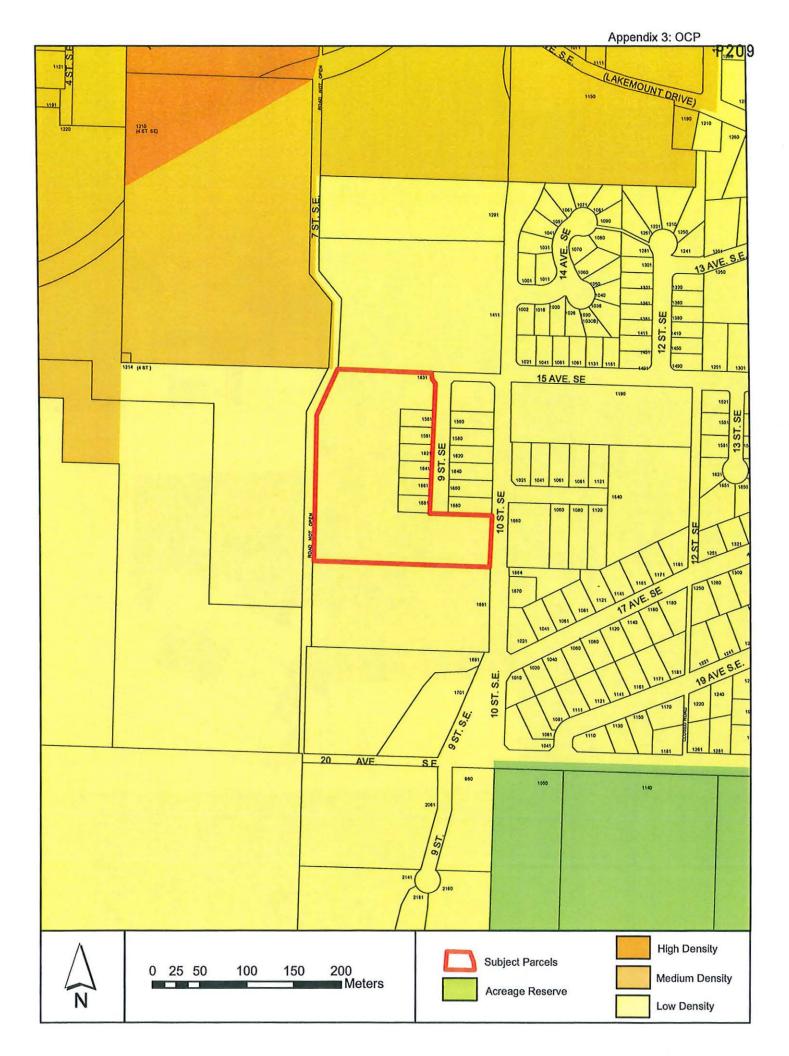
Prepared by: Chris Larson, MCIP, RPP

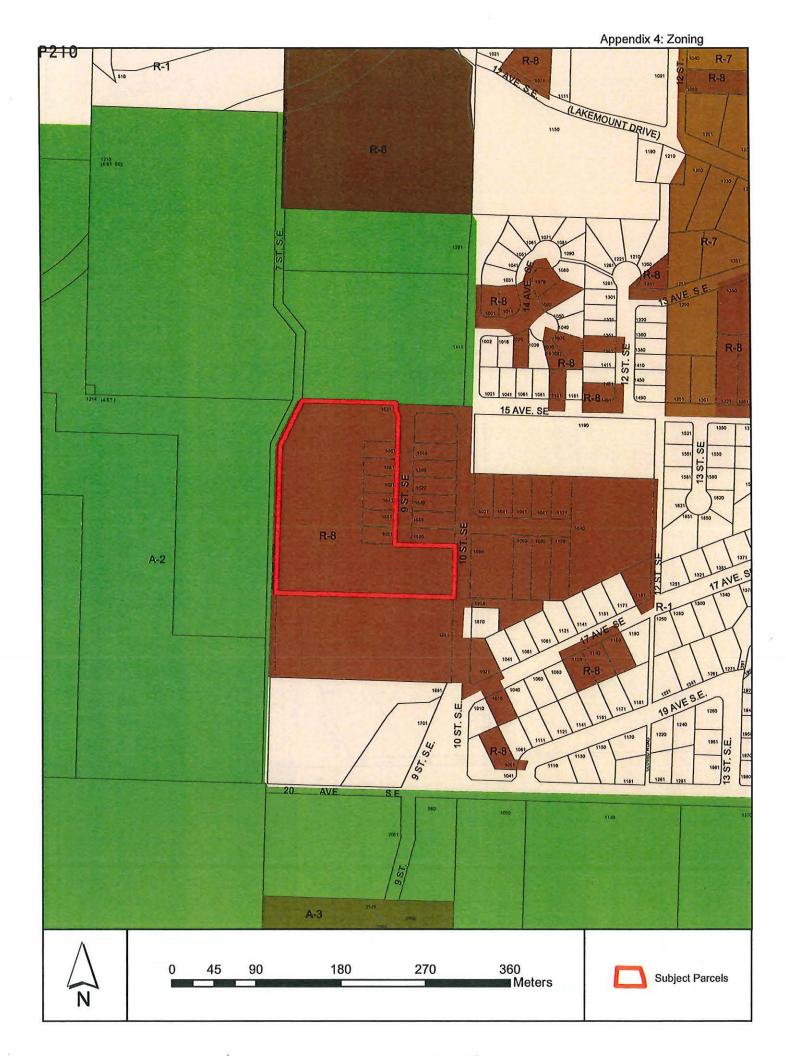
Senior Planner

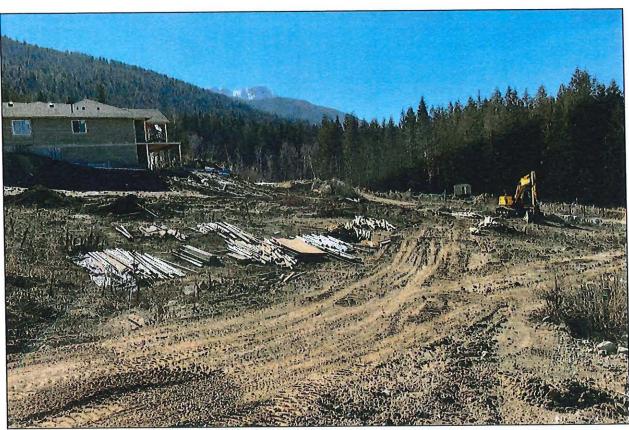
Reviewed by: Gary Buxton, MCIP, RPP
Director of Planning & Community Services



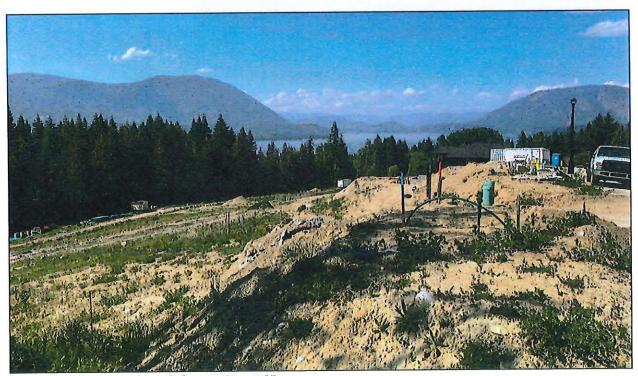




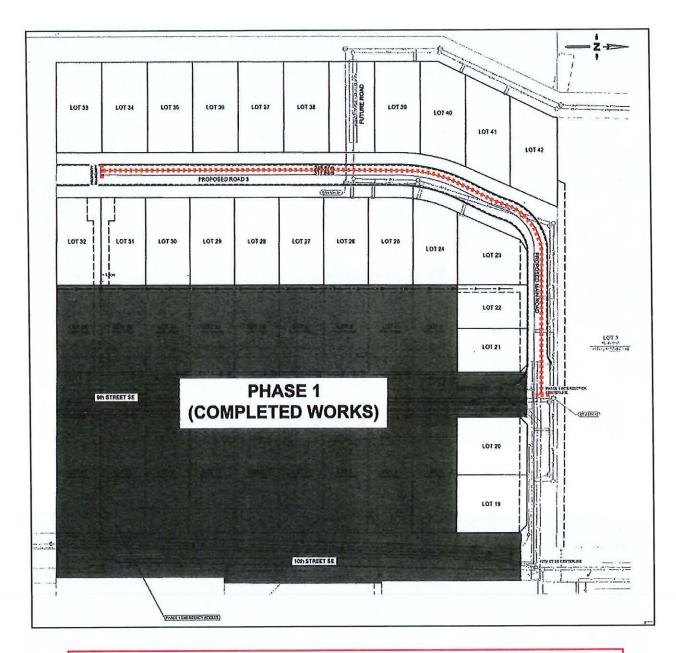




View of subject parcel south from 15 Avenue SE.



View of subject parcel north from 9 Street SE.

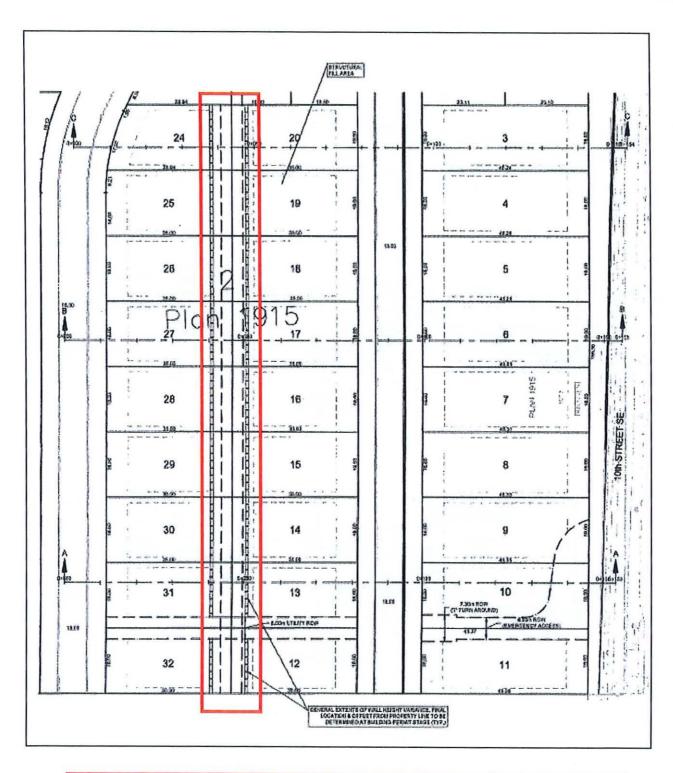


Variance Requested

SDS Bylaw No. 4163 Schedule B, Part 1, Section 4.11.4

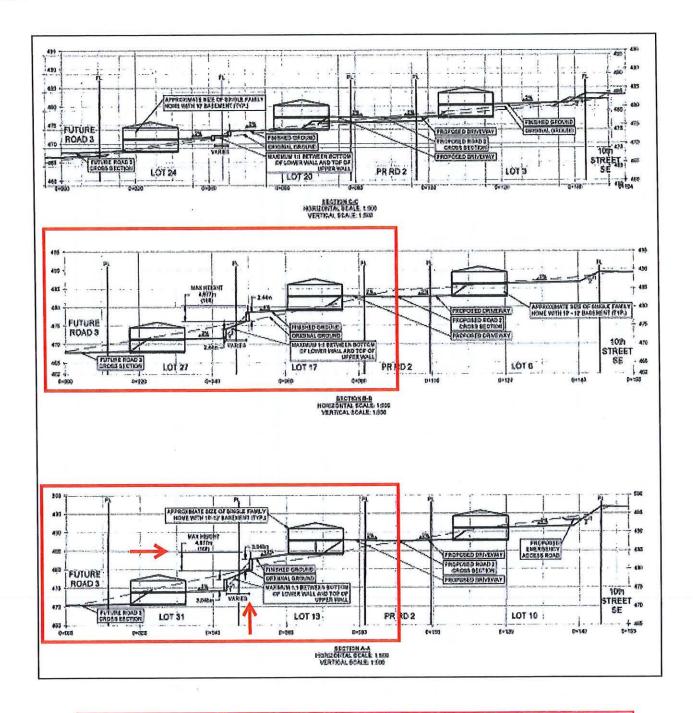
Increase the maximum permitted length of a cul-de-sac / dead end road from 160 m to 249 m.

This is a temporary dead end as 8 Street SE is intended to connect to and form a portion of future road network within Residential Development Area B.



Variance Requested

Extent of retaining wall across the subject parcel, which features increasing slope over the southern portion of the parcel.



Variance Requested Zoning Bylaw No. 2303 Section 4.12.1 (a) Increase the combined retaining wall and fence height from 2m to 6m

CITY OF SALMONARM

Memorandum from the Engineering and Public Works Department

TO:

Director of Development Services

DATE:

18 May 2023

PREPARED BY:

Chris Moore, Engineering Assistant

SUBJECT:

VARIANCE PERMIT APPLICATION FILE NO. VP- 574

OWNER:

0695662 BC Ltd - 2710 - 30 Street Salmon Arm, BC V1E 3G6

APPLICANT:

Massier, G.

LEGAL:

Lot 2, Section 11, Township 20, Range 10, W6M, KDYD, Plan 1915 Except Plan EPP115809 (PID: 011-075-104) Lots 2, 4, 6, 8, 10 & 12, Township 20, Range 10, W6M, KDYD, Plan EPP115809 (PIDs: 031-605-681, 031-605-

702, 031-605-729, 031-605-745, 031-605-761 & 031-605-788)

CIVIC:

1631 - 10 Street SE (Parent Property) and 1561, 1581, 1621, 1641, 1661

& 1681 - 9 Street SE

Further to the request for variance dated March 30, 2023; the Engineering Department has reviewed the site and offers the following comments and recommendations relative to the requested variance:

1. Zoning Bylaw No. 2303 Section 4.12.1 (a) to increase the combined retaining wall and fence height from 2m to 6m

Background:

1631 10 Street SE is a steep, challenging site with approximately 16m level difference from 9 Street SE to proposed 8 Street SE. The developer had initially proposed a 2:1 slope from the higher lots to the lower lots, together with one 3m high wall. Current proposal has two 3m high walls with a slope in between. This reduces the overall impact on the lots and increases the usable depth of the yards.

It is not practical to develop these lots without significant retaining walls and approving the over height retaining wall for all lots in one application is preferred to individual applications on a lot by lot basis.

The proposed upper wall is located above the existing 3m wide drainage easement and proposed swale. This will allow drainage from the wall to daylight into the swale and will also provide a legal route for access to the bottom of the upper wall for maintenance purposes. The details of both the wall and the drainage design will be subject to approval at the Building Permit stage.

Recommendation:

The Engineering Department recommends that request to increase the combined retaining wall and fence height from 2m to 6m be approved.

2. Subdivision & Development Servicing Bylaw No. 4163 Schedule B, Part 1, Section 4.11.4 to increase the maximum permitted length of a cul-de-sac / dead end road (proposed 8 Street SE) from 160 m to 249 m.

Background:

The Subdivision and Development Servicing Bylaw specifies that cul-de-sac dead end roads shall not exceed 160 meters in length in the Urban area. After this distance a secondary access shall be constructed which provides greater options for emergency access / egress. There is currently 249m from the intersection with phase 1 (where there are two points of access) to the centre of the proposed cul-de-sac at the south end of phase 2 on proposed 8 Street SE. 10 lots would be located beyond the 160m limit.

There are future plans to extend 8 Street SE to the north and to the south through further subdivisions and although the timing of these extensions is unclear, ultimately this road will loop both north and south and the 249m cul-de-sac is not expected to be a permanent situation.

In addition, to overcome the 160m limit, the developer has offered to increase the road width at the entrance to phase 2 to create a double width road, which would essentially provide two access roads from phase 1 to the north end of phase 2, reducing the cul-de-sac length to 200m. This would leave only the last 2 lots beyond the 160m limit, which staff would consider a minor variance. However, it is undesirable to have a double width road and both staff and the developer would prefer not to use this as a solution.

Refer to attached plan for clarification.

Recommendation:

Staff do not feel that 10 additional lots beyond the 160m limit is a significant variance, considering this is not likely to be a permanent situation and there are plans to extend 8 Street SE in the future. The option to construct a double width road is available to the applicant and this would mean that only 2 lots are beyond the 160m limit, however this option would not be recommended by staff. The Engineering Department recommends that the request to to increase the maximum permitted length of a cul-de-sac / dead end road (proposed 8 Street SE) from 160m to 249m be approved.

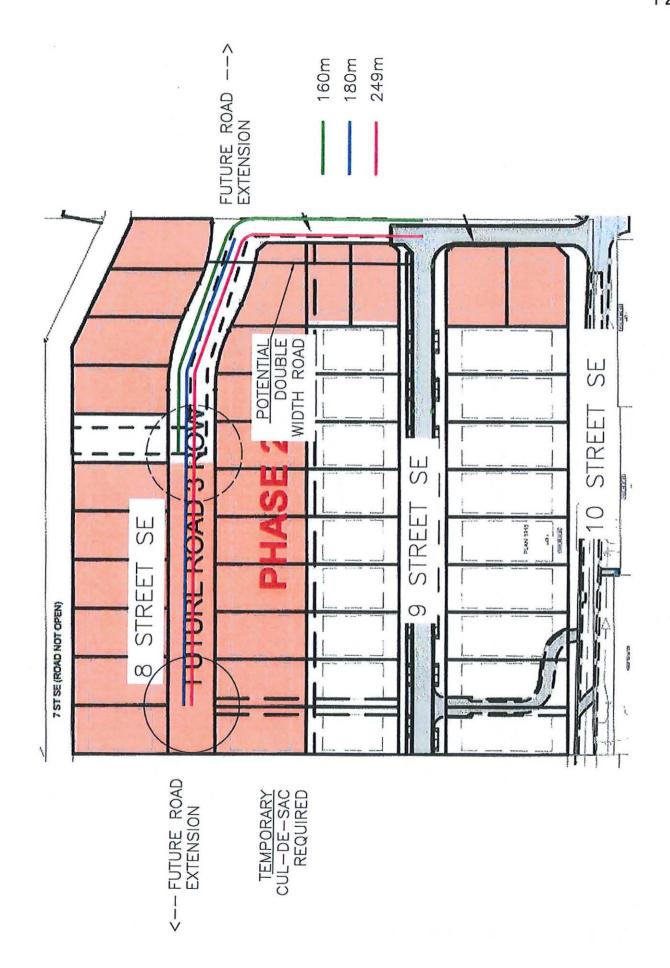
Chris Moore

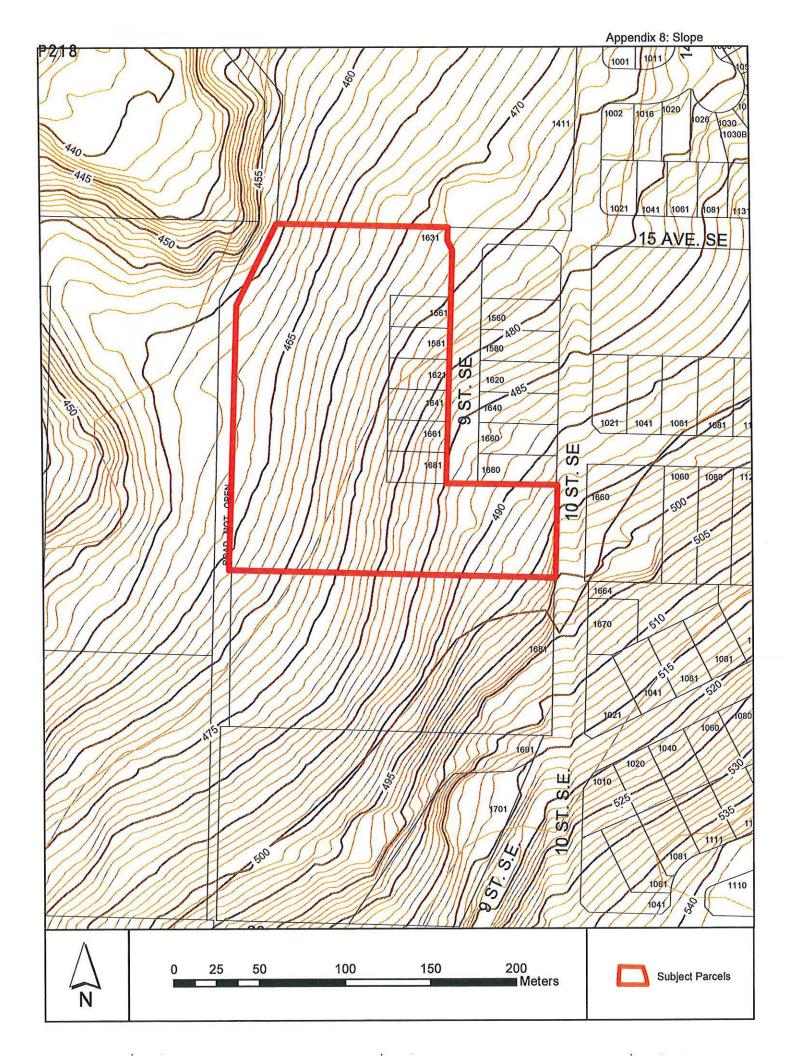
Engineering Assistant

Gabriel Bau P.Eng.,

Labrello-

City Engineer





Item 23.1

<u>CITY OF SALMON ARM</u> NOTICE OF PUBLIC HEARING

Notice is hereby given that the Council of the City of Salmon Arm will hold a Public Hearing virtually and in the Council Chambers at City Hall, 500 – 2 Avenue NE, Salmon Arm, British Columbia, on Monday, June 12, 2023 at 7:00 p.m.

1) Proposed Amendment to Zoning Bylaw No 2303:

Proposed Rezoning of Lot A, Section 13, Township 20, Range 10, W6M, KDYD, Plan 14385 from R-1 (Single

Family Residential Zone) to R-8 (Residential Suite Zone).

Civic Address: 2760 Auto Road SE

Location: West of 30 Street SE on the South side

of Auto Road SE

Present Use: Single Family Dwelling

Proposed Use: To rezone a single family dwelling

to permit a secondary dwelling

Owner/Agent: EWDS Holdings Ltd./D. Shoesmith

Reference: ZON-1265 Bylaw No. 4580



The staff report for the proposal is available for viewing on the City of Salmon Arm website at https://www.salmonarm.ca/431/Public-Hearing-Notices from May 30, 2023 to June 12, 2023 inclusive. Those who deem their interest affected by the proposed bylaws are urged to review the online file, contact the undersigned or phone the Development Services Department at 250.803.4000 to obtain the facts of the proposal prior to the hearing.

Meetings are being held in person and virtually. If you wish to attend virtually, a link to the virtual meeting is available in the Agenda section on our website www.salmonarm.ca.

City Council encourages the continued use of the city's website to stay informed on current Development applications and Council Agendas.

Sue Wood, Director of Corporate Services

May 31 and June 7



To: His Worship Mayor Harrison and Members of Council

Date: May 3, 2023

Subject: Zoning Bylaw Amendment Application No. 1265

Legal: Lot A, Section 13, Township 20. Range 10, W6M, KDYD, Plan 14385

Civic Address: 2760 Auto Road SE

Owner/Applicant: EWDS Holdings Ltd. (David Shoesmith)

STAFF RECOMMENDATION

THAT: a bylaw be prepared for Council's consideration, adoption of which would amend

Zoning Bylaw No. 2303 by rezoning Lot A, Section 13, Township 20. Range 10, W6M, KDYD, Plan 14385 from R1 (Single Family Residential) to R8 (Residential Suite Zone).

PROPOSAL

To rezone a single family dwelling R1 (Single Family Residential Zone) property to R8 (Residential Suite Zone).

BACKGROUND

The subject property is approximately 0.20ha (0.50ac) in area with a single family home (Appendix 1 & 2). The subject property is designated Residential Medium Density in the City's Official Community Plan (OCP), and zoned R1 (Single Family Residential) in the Zoning Bylaw (Appendix 3 & 4).

Adjacent land uses include the following:

North: Single Family Residence Zoned R1
South: Single Family Residence Zoned A2
East: Single Family Residence Zoned R1
West: Single Family Residence Zoned R1

Policy 8.3.25 of the OCP provides for the consideration of secondary suites in all Residential (High, Medium, and Low) designated areas via a rezoning application, subject to compliance with the Zoning Bylaw and the BC Building Code. Appendix 5 illustrates a two lot subdivision proposal that has been submitted for review by the applicant. The existing single family dwelling would remain on the proposed Lot 1 and the proposed Lot 2 would be vacant. Should the rezoning be adopted the R8 zoning would apply to both proposed parcels.

Based on parcel area, the subject property has potential to meet the conditions for the development of a secondary suite or detached dwelling, including sufficient space to meet the parking requirement.

COMMENTS

Engineering Department

The Engineering Department has no concerns to the rezoning of this property.

Building Department

No concerns with the rezoning.

Fire Department

No concerns.

Public Consultation

Pursuant to the Local Government Act and City of Salmon Arm Zoning Bylaw, notices are mailed to land owners within a 30m radius of the application. Newspaper ads are placed in two editions of the local paper in advance of the Statutory Public Hearing. The notice outlines the proposal and advises those with an interest in the proposal to provide written submission prior to the Statutory Public Hearing and information regarding attending the Hearing. It is expected that the Hearing for this application will be held on June 12, 2023.

Planning Department

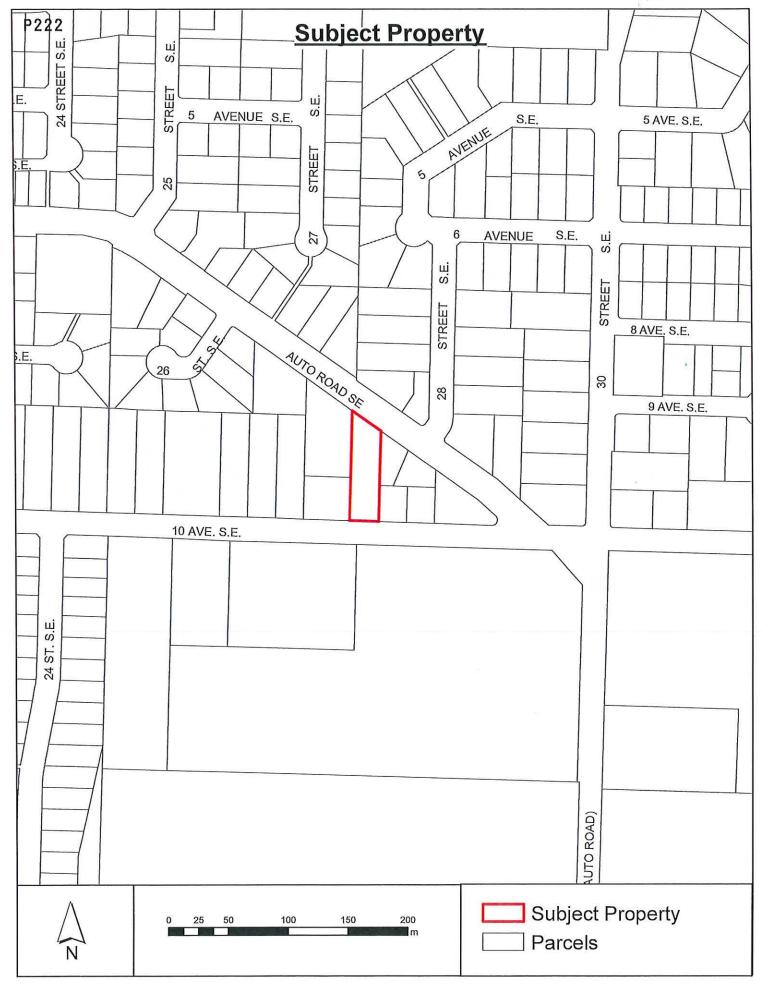
Secondary suites are supported by the previously mentioned OCP policy and the proposed layout of the unit is compliant with zoning requirements, including an additional off-street parking space for the suite. Staff support the rezoning of the subject property from R1 (Single Family Residential Zone) to R8 (Residential Suite Zone).

Prepared by: Melinda Smyrl, MCIP, RPP

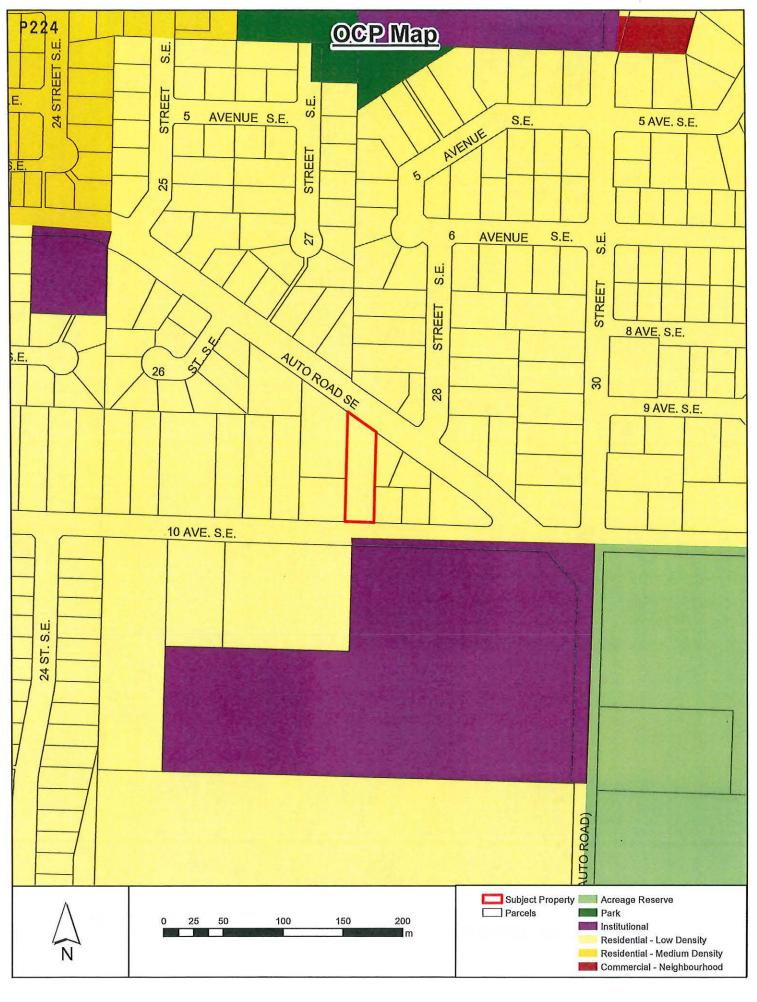
Planner

Reviewed by: Gary Buxton, MCIP, RPP Director of Planning and Community

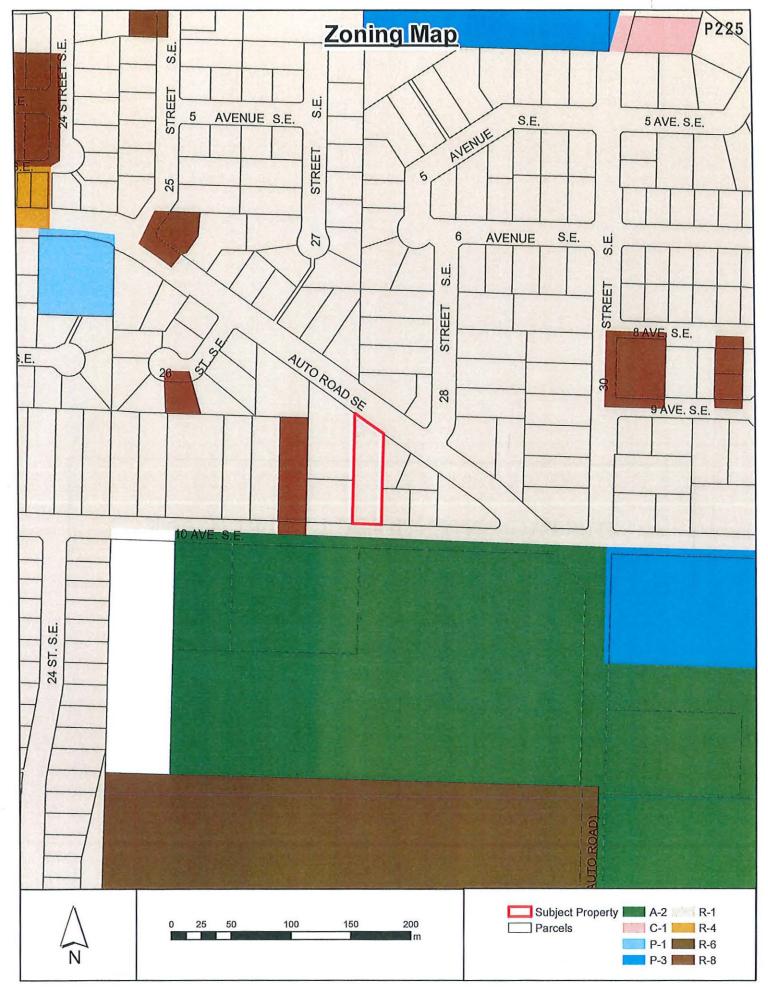
Services







APPENDIX 4



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Item 24.1

CITY OF SALMON ARM

Date: June 12, 2023

Moved: Councillor

Seconded: Councillor

THAT: the bylaw entitled City of Salmon Arm Zoning Amendment Bylaw No. 4580 be read a third and final time.

[ZON-1265; EWDS Holdings Ltd.; 2760 Auto Road SE; R-1 to R-8]

CITY OF SALMON ARM

BYLAW NO. 4580

A bylaw to amend "District of Salmon Arm Zoning Bylaw No. 2303"

WHEREAS notice of a Public Hearing to be held by the Council of the City of Salmon Arm in the Council Chambers at City Hall, 500 – 2 Avenue NE, Salmon Arm, British Columbia and by electronic means, on June 12, 2023 at the hour of 7:00 p.m. was published in the May 31 and June 7, 2023 issues of the Salmon Arm Observer;

AND WHEREAS the said Public Hearing was duly held at the time and place above mentioned;

NOW THEREFORE the Council of the City of Salmon Arm in open meeting assembled enacts as follows:

1. "District of Salmon Arm Zoning Bylaw No. 2303" is hereby amended as follows:

Rezone Lot A, Section 13, Township 20, Range 10, W6M, KDYD, Plan 14385 from R-1 (Single Family Residential Zone) to R-8 (Residential Suite Zone), attached as Schedule "A".

2. SEVERABILITY

If any part, section, sub-section, clause of this bylaw for any reason is held to be invalid by the decisions of a Court of competent jurisdiction, the invalid portion shall be severed and the decisions that it is invalid shall not affect the validity of the remaining portions of this bylaw.

3. ENACTMENT

Any enactment referred to herein is a reference to an enactment of British Columbia and regulations thereto as amended, revised, consolidated or replaced from time to time.

4. EFFECTIVE DATE

This bylaw shall come into full force and effect upon adoption of same.

5. CITATION

This bylaw may be cited as	"City of Salmon	Arm Zoning A	Amendment Bylaw No. 4580"
, ,	<i>y</i>	•	

READ A FIRST TIME THIS	23 rd	DAY OF	MAY	2023
READ A SECOND TIME THIS	23 rd	DAYOF	MAY	2023
READ A THIRD TIME THIS		DAYOF		2023
ADOPTED BY COUNCIL THIS		DAYOF		2023

	MAYOR
•	CORPOR ATE OFFICER

Schedule "A"



Item 26

CITY OF SALMON ARM

Date: June 12, 2023

Moved: Councillor Lindgren

Seconded: Councillor Gonella

THAT: the Regular Council Meeting of June 12, 2023, be adjourned.

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INFORMATIONAL CORRESPONDENCE - June 12, 2023

1.	Building Department – Building Statistics – May 2023	N
2.	Building Department - Building Permits - Yearly Statistics	N
3.	V. De Groot – Email dated June 1, 2023 – Tax Prepayment Plan	N
4.	M. Defoe - Email dated June 5, 2023 - City Hall Hours of Operation	N
5.	M. Engel – Email dated June 1, 2023 – Request to use Canoe Beach Gazebo – July 2, 2023	Α
6.	T. Starkell, Administrative Services Manager, Salmon Arm Roots & Blues – Letter dated May 15, 2023 – Request for Letter of Support for SEP Application	A
7.	J. Broadwell, Manager, Downtown Salmon Arm – Request to Close Alexander Street for Roots and Blues Kick Off Concert – August 17, 2023	A
8.	A. VanderMeulen, Cornerstone CRC Outreach Team – Letter dated June 5, 2023 – Request for road closure – September 16, 2023	A
9.	B. Andrews / A. Heiser, Peer Engagement Coordinator, Canadian Mental Health Association – Letter received May 30, 2023 – Request for additional transit bus routes – Blind Bay to Salmon Arm	A
10.	S. Dewalle - Email dated May 25, 2023 - Request to use Blackburn Park - July 22, 2023	Α
11.	J. McEwan, Salmon Arm Fair Manager – Letter dated May 18, 2023 – Request for road closures for Salmon Arm Fair & Parade – September 9, 2023	A
12.	S. Dhaliwal, President, Salmon Arm Cricket Club – Letter received June 5, 2023 – Request for installation support of cement under pad for Cricket Playing Field	A
13.	The Wellspring Foundation for Education – Lake2Lake Ride for Rwanda – September 16-17, 2023	N
14.	K. Hartman, Vice-President of the New Denver and Area Housing Society – Email dated May 29, 2023 – Rural Housing Crisis Survey for Parliamentary Secretary for Rural Development	N
15.	Ministry of Transportation and Infrastructure – Email dated May 30, 2023 – BC E-Bike Rebate Program	N
16.	L. Connor, Manager - Accessibility Initiatives, SPARC BC - Email dated June 1, 2023 -	N
	Information Session for the Local Community Accessibility Grant Program	
17.	D. Sharman, Community Relations Manager, Southern Interior, BC Hydro – Email dated June 2, 2023 – UBCM Convention 2023 Invitation	N
18.	S. Gregson, Spokesperson, Coalition of Child Care Advocates of BC - Request for UBCM Child Care Resolution	A

SALMONARM

CITY OF SALMON ARM BUILDING DEPARTMENT REPORT MAY 2023

LAST YEAR (2022)
CURRENT MONTH YEA

2022) CURRENT YEAR (2023) YEAR-TO-DATE CURRENT MONTH YEAR

YEAR-TO-DATE

		NO.	VALUE	NO.	VALUE	NO.	VALUE	NO.	VALUE
1	New Single Family Dwellings	2	900,000	18	7,585,000	6	2,965,000	15	8,220,280
2	Misc. Additions etc. to SFD's	6	1,184,500	- 22	2,074,265	6	145,367	20	1,153,067
3	New Single Family Dwellings with suites	2	1,300,000	7	3,422,000	2	1,400,000	5	2,713,000
4	New Secondary/Detached Suites	2	62,820	10	986,168	1	50,000	6	816,854
5	New Modulars/MH's (Factory Built)	2	694,012	4	1,536,274	-	-	2	372,000
6	Misc. Additions etc. to Modulars/MH's	-	-	2	32,700	-	-	-	_
7	MFD's (# Units)	-	-	-		-	-	2 (5)	1,478,000
8	Misc. Additions etc. to MFD's	-		1	47,000	_	-	-	-
9	New Commercial	1	175,000	2	2,075,000	-	-	-	-
10	Misc. Additions etc. to Commercial	2	57,500	5	707,500		-	9	1,098,000
11	New Industrial	_	-	-	-		-	1	85,000
12	Misc. Additions etc. to Industrial	-	-	-	- 2	-	-	2	70,000
13	New Institutional	-	-	-	-		-	1	492,000
14	Misc. Additions etc. to Institutional	-	_	1	700,000	-	-	1	124,282
15	Signs	2	11,675	6	50,032	3	5,425	12	115,325
16	Swimming Pools, Pool Buildings	2	80,000	8	448,752	1	80,000	4	248,000
17	Demolitions	-	-	4	-	2	-	3	_
18	Temporary Trailers, A & B Permits	1	-	1	-	-	-	2	-
19	Misc. Special Inspections, etc.	2	-	14	-	2	-	17	-
	TOTAL PERMITS ISSUED	24	4,465,507	105	19,664,691	23	4,645,792	102	16,985,808

MFD's - Apartment, Row, Duplex, Strata (# of dwelling units created) Farm building values not included

BUILDING PERMITS - YEARLY												
	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
2001	585,500	11,938,550	12,265,250	12,842,790	13,534,790	14,712,550	16,330,650	17,717,625	19,031,075	19,895,255	21,318,855	21,458,195
2002	585,500	1,952,500	3,340,850	3,821,240	5,455,840	6,411,690	8,844,690	10,932,510	15,780,890	16,705,600	17,738,200	17,923,700
2003	130,110	920,780	2,974,020	4,486,120	5,993,320	13,294,120	15,555,250	17,937,005	20,318,920	22,000,340	24,005,740	24,782,360
2004	430,700	1,506,500	5,903,780	8,379,104	10,122,768	12,086,319	14,779,343	21,598,763	30,371,023	33,614,173	34,957,458	35,881,343
2005	1,072,000	2,269,650	4,344,750	6,806,152	12,110,482	28,031,457	29,985,585	34,743,645	37,600,445	42,915,856	45,525,611	47,576,746
2006	815,550	3,224,468	8,012,449	11,501,929	16,084,809	20,066,533	23,714,194	26,370,890	36,479,806	37,278,358	42,332,995	43,077,170
2007	1,531,087	3,901,669	16,148,674	22,413,118	27,232,134	32,401,472	35,657,297	42,829,750	51,945,799	55,703,387	65,885,802	66,289,555
2008	1,797,604	4,203,429	12,947,058	27,647,379	33,857,533	36,582,025	39,759,375	42,395,454	45,412,474	50,699,301	53,383,541	53,522,880
2009	409,369	864,839	2,039,460	5,207,311	6,763,615	7,800,085	9,677,455	11,579,746	18,882,737	20,713,554	23,523,664	24,337,664
2010	1,518,563	2,708,062	5,931,546	10,081,816	12,260,236	13,526,546	16,597,121	18,790,511	19,848,804	21,174,632	22,953,692	27,249,702
2011	568,645	2,003,976	5,063,837	7,449,773	9,471,416	11,761,850	12,794,028	14,222,970	18,194,801	19,682,061	30,563,013	31,934,415
2012	2,189,660	3,128,562	4,794,040	6,337,260	10,000,544	12,120,246	17,883,185	24,375,078	26,118,787	26,493,820	28,130,500	28,666,430
2013	881,740	1,440,110	13,907,060	15,814,195	17,433,454	20,194,778	23,204,628	24,180,485	26,567,302	29,195,224	30,890,086	31,231,349
2014	665,304	2,806,404	8,075,941	20,789,869	27,574,834	29,877,686	33,456,523	41,971,923	42,784,769	44,804,191	46,460,471	47,707,993
2015	1,172,285	1,853,539	3,894,754	6,750,389	8,575,425	18,388,180	20,475,407	26,442,225	29,143,303	31,248,595	35,417,465	37,368,595
2016	1,268,865	2,298,280	4,987,625	8,904,610	12,253,660	16,279,464	19,265,124	23,811,029	29,823,014	36,084,949	40,154,959	41,418,659
2017	1,183,280	2,841,725	7,219,495	11,761,657	18,136,656	23,823,576	30,793,243	36,066,891	52,130,226	59,858,542	63,366,686	64,675,041
2018	1,970,104	3,943,104	10,028,787	14,363,122	20,252,322	30,488,747	37,540,412	40,421,060	55,689,215	59,634,580	64,988,531	66,797,572
2019	6,060,645	6,835,345	10,699,845	18,074,843	22,220,523	26,015,593	31,103,281	45,971,877	48,902,359	52,267,409	56,765,409	58,511,534
2020	2,218,950	4,293,250	6,900,060	9,289,060	12,891,318	23,340,638	26,757,691	32,516,960	37,062,215	46,505,927	51,472,227	54,065,527
2021	3,180,132	5,500,747	9,538,939	14,603,678	21,402,310	29,030,210	33,528,039	37,494,801	41,729,005	46,006,620	50,263,120	53,739,370
2022	2,742,700	4,614,700	11,785,510	15,199,184	19,664,691	26,059,056	29,452,833	40,073,183	43,982,753	51,601,717	56,752,469	60,172,009
2023	3,950,582	5,205,782	8,532,882	12,340,016	16,985,808							

Rhonda West

From: Alan Harrison

Sent: Monday, June 5, 2023 10:21 AM

To: Erin Jackson

Cc: Rhonda West; Chelsea Van de Cappelle

Subject: FW: [External] Online Form Submittal: Mayor and Council

Hi Erin,

This may be one to consider for informational correspondence.

Thank you,

Alan

From: noreply@civicplus.com <noreply@civicplus.com>

Sent: June 1, 2023 9:44 AM

To: Alan Harrison <a harrison@salmonarm.ca>; David Gonella <dgonella@salmonarm.ca>; Debbie Cannon

<dcannon@salmonarm.ca>; Kevin Flynn <kflynn@salmonarm.ca>; Louise Wallace-Richmond

<lwallacerichmond@salmonarm.ca>; Sylvia Lindgren <slindgren@salmonarm.ca>; Tim Lavery <tlavery@salmonarm.ca>;

Erin Jackson <ejackson@salmonarm.ca>

Subject: [External] Online Form Submittal: Mayor and Council

Mayor and Council

First Name Vic

Last Name De Groot

Address: N.E. Salmon Arm

Return email address:

Subject: Tax Prepayment Plan

Body Dear Mayor and Council,

I would like to suggest some changes to the current Property Tax Prepayment Plan. Under the current system, there is very little benefit to the taxpayer as the taxes are all paid in advance and very little interest is paid. It is much better for people to save their tax money in an interest paying bank account and then pay their taxes at the end of June. I was enrolled in the prepayment system but stopped after I realized I was paying entirely in advance and there was no benefit other than not having to make a single large payment. The City benefits much more as it receives tax revenue in advance and regularly

therefore providing a smoother revenue stream. I believe more people would participate in the prepayment plan if the taxes were collected in a plan that starts Jan 1st each year and continues through every month of the year. Taxes would then be collected for 6 months in advance and 6 months in arrears benefitting the City and taxpayers. The City also would not have to pay interest which could be used for other purposes. At the start of each year the monthly payment would be adjusted to reflect the tax increase for the year and on July 1 when the exact amount is known a credit or extra tax amount would be applied to the tax account. If you would like more information regarding this system, I would recommend you contact the City of Calgary finance dept. Thanks for your consideration in this regard.

Vic De Groot

Would you like a response:

Yes

Disclaimer

Written and email correspondence addressed to Mayor and Council may become public documents once received by the City. Correspondence addressed to Mayor and Council is routinely published within the Correspondence Section of Regular Council Agendas.

Email not displaying correctly? View it in your browser.

Rhonda West

From:

Sent:

Monday, June 5, 2023 5:04 PM

To: Cc: Rhonda West

Cc:

fridayam@shaw.ca

Subject:

[External] City Hall hours of operation

Good afternoon Rhonda,

I was given your email address to send a letter intended for Salmon Arm Mayor & Council. I assume you will ensure the letter gets into the correct hands. Thank you.

Mayor & Council,

I arrived at City Hall today at 1:01 pm today, along with three other individuals only to find your doors locked and a notice on the door saying you are closed from 1-2 pm and there is a drop box available for use. I would like to make a couple of comments:

- I find it unbelievable there is a necessity to close your doors for an hour every day rather than stagger your lunch breaks. I realize this started during Covid, and that was understandable. However, the days of Covid limitations and restrictions are long gone.
- I searched the hours of operation for several other City offices including Vernon, Armstrong, Sicamous, Enderby, Revelstoke and Kelowna. All are open from 8:30 am to 4:30 pm with the exception of Kelowna which is open from 8:00 4:00 (all for an 8 hour period each day).
- When I returned to City Hall after 2 pm, there were several people lined up waiting for the cashier. One elderly gentleman who was having an issue being able to stand while he waited, asked the cashier why it was necessary to close, and wondered why you didn't stagger your lunch breaks. He had come to the office once, had to return home, and come back again.
- When I phoned later and asked the receptionist about your hours, she instructed me that there was a "drop box" available. However, I wanted a "paid" stamp on my invoice as I was leaving a postdated cheque. I fail to understand how there is a perception that a "drop box" will be adequate for an hour out of your 7.5 hour day (leaving the doors open only 6.5 hours each day). One of the individuals in the office when I returned needed garbage stickers. You cannot get paid stamps, or garbage stickers from a "drop box".
- One person trying to get through your locked doors was a visitor to Salmon Arm looking for the Visitor Centre. There was nothing on the door to indicate that she could go around the back to find it, and that they are, in fact, open from 1 2.

I believe this is probably not likely the first complaint you have received (I heard several in my short time there today), and I'm wondering if the issue will be readdressed sometime soon. I believe the citizens of Salmon Arm have the right to arrive at your office at any time during the work day and find your doors open.

Thank you for your consideration.

Your truly,

Maureen Defoe

Rhonda West

From:

Barb Puddifant

Sent:

Friday, June 2, 2023 8:00 AM

To:

Rhonda West

Subject:

FW: [External] Canoe Beach Gazebo

From: Darin Gerow <dgerow@salmonarm.ca>

Sent: Friday, June 2, 2023 6:53 AM

To: Barb Puddifant <bpuddifant@salmonarm.ca>; Rob Niewenhuizen <rniewenhuizen@salmonarm.ca>

Subject: FW: [External] Canoe Beach Gazebo

Good Morning,

Please find below email request for the use of Canoe Beach Gazebo on July 2.

Will this suffice for council correspondence?

Thanks,

Darin Gerow, AScT

From: Marlene Engel

Sent: Thursday, June 1, 2023 3:09 PM
To: Darin Gerow dgerow@salmonarm.ca
Subject: [External] Canoe Beach Gazebo

Dear Mayor and Council of Salmon Arm,

I would like to request a reservation for the use of the Gazebo at Canoe Beach. It's for a 70th birthday. The date I'm looking at is Sunday, July 2nd. Time would be from 4:00 pm - approximately 9:00 pm. I'm not sure of the number of people but probably between 30 & 50.

Thank you for your consideration of this request.

Marlene Engel



Salmon Arm Folk Music Society

Mail: PO Box 21, Salmon Arm, BC V1E 4N2 Location: 541 3rd St. SW, Salmon Arm, BC Phone: 250.833.4096 | Fax: 250.833.4097 General Inquiries: info@rootsandblues.ca Sponsor: sponsor@rootsandblues.ca

Volunteer and Grants: volunteer@rootsandblues.ca

www.rootsandblues.ca

May 15, 2023

City of Salmon Arm Box 40 100 - 30 Street SE Salmon Arm, BC V1E 4N2

Attn. Erin Jackson, CAO, and Bylaw Enforcement RE: Regionally Recognition and Beer Garden Approval

Dear Erin:

The Salmon Arm Folk Music Society (SAFMS) would like to request a letter from the City recognizing the ROOTSandBLUES Festival as a regionally significant cultural event. The letter of support will be included in the SEP application the SAFMS will submit to allow alcohol sales during the event.

The second request the SAFMS is seeking the City's support is the permission to operate four alcohol serving areas during the Salmon Arm ROOTSandBLUES Festival from August 18th to 20th, 2023.

For 2023, the wine lounge is now a tasting lounge offering the opportunity to the regional wineries, breweries and cideries to promote their products to the RB patrons.

Another change under consideration is allowing minors in the Main Beverage garden. Similar to the Barn Beverage Garden we are considering installing module fencing to include the Blues Stage to allow alcohol consumption in this area. This area will have paid security to ensure minors are not served and no alcohol enters the main event grounds.

Although the SEP regulations in BC allow alcohol to be served to the entire event site the SAFMS believes it is important to separate alcohol consumption from the general event areas to support the RB's reputation as a family centric event.

Four Alcohol Serving Area Schedules:

- Main Beverage Garden and Tasting Lounge (patron area)
 - o Aug 18^h 3pm to 12:30am
 - o Aug 19th 10:00am to 12:30am
 - o Aug 20th 10:00am to 12:30am
- Barn Beverage Garden (patron area)
 - o Aug 18^h 3pm to 12:30am
 - o Aug 19th 10:00am to 12:30am
 - o Aug 20th 10:00am to 12:30am
- VIP Lounge (private access area)
 - o Aug 18^h 3pm to 12:30am
 - o Aug 19th 10:00am to 12:30am
 - o Aug 20th 10:00am to 12:30am
- Volunteer Party (private access area)
 - o Aug 20th to 21st -10pm to 3:00am

Please do not hesitate to make contact if you require more information.

Thank you,

Toni Starkell Administrative Services Manager clerical@rootsandblues.ca



Mayor and Council City of Salmon Arm PO Box 40 Salmon Arm, BC V1E 4N2

May 31, 2023

Dear Mayor and Council

RE: REQUEST TO CLOSE ALEXANDER STREET FOR ROOTS AND BLUES KICK OFF CONCERT

Downtown Salmon Arm, in collaboration with the Salmon Arm Folk Music Society, is requesting pedestrian-use only of the 300 block of Alexander Street (from Hudson Street to Lakeshore Road) on Thursday, August 17, from 3 pm – 10 pm for the 2023 ROOTSandBLUES KICK-OFF CONCERT. This will allow time to clear the street of cars, set the mobile stage, and have sounds equipment prepared before the 6:00 pm showtime.

The inaugural Kick Off Concert event in 2022 drew an estimated crowd of 1,200 local and visiting music lovers to the heart of Salmon Arm. With additional promotion in all festival material and through Downtown Salmon Arm channels, higher participation is anticipated this year. This free concert from the ROOTSandBLUES Festival provides a considerable boost to Downtown Salmon Arm members and the Salmon Arm community.

Attached, please find the street map for the requested closure. Please let me know if you require further details to consider and approve this request.

Thank you for your time and support.

With respect,

Jennifer Broadwell, Manager Cc: Kevin Tobin, AD, ROOTSandBLUES

> DOWNTOWN SALMON ARM 250 SHUSWAP STREET NE, PO BOX 1928 SALMON ARM, BRITISH COLUMBIA V1E 4P9





DOWNTOWN SALMON ARM 250 SHUSWAP STREET NE, PO BOX 1928 SALMON ARM, BRITISH COLUMBIA V1E 4P9 June 5, 2023

Good morning Rhonda West,

I am writing to you today on behalf of Cornerstone Christian Reformed Church Outreach Team. We enjoy hosting a free BBQ in Septembers for our Community around us and Salmon Arm in general. This years date is September 16th,2023. The Community BBQ includes not only food but games and a time for the community to get to know its neighbors.

We are growing and would like to ask to be able to use an area of the street by our church. The area is from 2151 12th Avenue NE to 22nd Street NE. No driveways will be blocked in this process.

If approved we would ask that we would be allowed to borrow city barricades to make the blockage more visible.

Thank you so much for your help,

Abby VanderMeulen

On behalf of Cornerstone CRC Outreach Team

2151 11 Ave NE, Salmon Arm

My personal phone number



To whom it may concern.

Hi, my name is Brian. I wanted to set more Transit bus times. From Blind Bay to Salmon Arm, I am going to a CMHA Clubhouse but only able to get the bus once a week, on a Thursday.

It would be nice to go 3 times a week and eventually up to 5. I have a mental illness and it would be so good for me to go to the clubhouse. I am an adult male and would like more transportation to town.

Brian Andrews

13 mi

(28

Abby Heiser

Peer Engagement Coordinator

Canadian Mental Health Association

250-804-9230

Rhonda West

From:

Alan Harrison

Sent:

Friday, May 26, 2023 1:15 PM

To:

Erin Jackson Rhonda West

Cc: Subject:

Fw: [External] Online Form Submittal: Mayor and Council

Categories:

FOLLOW UP

Hi Erin,

Can we let Sarah know that Council will consider this request at our next meeting.

Thank you,

Alan

From: noreply@civicplus.com <noreply@civicplus.com>

Sent: May 25, 2023 9:52 PM

To: Alan Harrison <aharrison@salmonarm.ca>; David Gonella <dgonella@salmonarm.ca>; Debbie Cannon

<dcannon@salmonarm.ca>; Kevin Flynn <kflynn@salmonarm.ca>; Louise Wallace-Richmond

 $< lwallacerich mond@salmonarm.ca>; Sylvia\ Lindgren < slindgren@salmonarm.ca>; Tim\ Lavery < tlavery@salmonarm.ca>; Tim\$

Erin Jackson <ejackson@salmonarm.ca>

Subject: [External] Online Form Submittal: Mayor and Council

Mayor and Council

First Name

Sarah

Last Name

Dewalle

Address:

SW

Return email address:

Subject:

reserve Blackburn Park picnic tables

Body

Hello Mayor and council members. We moved here 16 years ago from Terrace BC. Since then many people from Terrace have moved to Salmon Arm. Ed and I organized a Terrace get together a few years after we moved here. At that time we met at Marine Peace Park. Ed and I are requesting the use of Blackburn Park for our picnic. We are hoping to invite other Terracites from the surrounding area of the Okanagan as well. We feel this would be suitable because of the covered picnic tables. The playground would be an asset for possible children

attending. This would be a lunch time into early afternoon gathering and of course no alcoholic beverages.

A low key social get together.

We have set a tentative date for July 22nd, 2023.

Thank-you for your cooperation and Ed and I look forward to hearing from you!

Sarah deWalle

Would you like a response:

Yes

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Mr. Maurice Roy
Director of Permits & Licensing
City of Salmon Arm
Box 40 500-2nd Ave NE
Salmon Arm, BC. V1E 4N2

May 18, 2023

Dear Sir,

Re: Salmon Arm Fair and Parade

This is a request from the Salmon Arm Fair Committee to hold the annual Salmon Arm Fair Parade, scheduled for Saturday, September 9, 2023, from approximately 10:15 am to 12:30 p.m. While it appears we no longer have mandated Covid restrictions for gathering, this request is still subject to all Provincial Medical Officers Covid 19 restrictions at the time of the Parade.

The Parade route for 2023 will follow the same route as 2022, ensuring volunteer, participant, and spectator safety from start to finish.

The assembly point for non-livestock and tractor entries will be the road between the south Fairgrounds and Blackburn Park at 5th and 5th. The parade will move south on 5th St to 10th Ave then East to Shuswap; North on Shuswap, crossing the TCH, right turn on Hudson where the parade will turn left on Ross St to Lakeshore Dr. turning left on Lakeshore to 10th St by the Waterslide; south on 10th St. to 5 Ave; east on 5th Ave. SW; and south on 5th St. SW by Blackburn Park where the parade will disband.

We would like permission to close the following roadways to non-parade traffic on Saturday morning to assist in organizing parade floats:

- A. 5th St SW between Blackburn Park and the fair grounds.
- B. 5th Ave from 10th St SW to 5th St SW South Lane only from Linden Court.
- C. 10th Ave SW from Shuswap St to 5th St SW ending at Blackburn Park. North side lane to allow float organization and letting East Bound traffic through. Parade marshaling will begin at 7:00 a.m.
- D. 5th Ave from 3rd St SW to 5th St SW from Thursday 8am September 7th to September 10th 5pm to assist in a safe fair set up and tear down.
- E. I would work with City Public works for traffic barriers dropped at the designated street corners.
- F. We would request to borrow traffic signs, hi vis vests, and directional paddles for the volunteers who will be directing traffic at the intersections.
- G. We request that five (5) road barriers be placed at each of the corners of 3rd St SW and 5th Ave SW and the corner of 5th St SW and 5th Ave SW to assist in setting up ticket booths.
- H. We are requesting to extend the No Parking zones from previous years to include the following:





- -Shuswap St from 5th Ave. SW to Hudson St, both sides
- Hudson St to Ross St and Ross St to Lakeshore
- -Lakeshore from Ross to 10th St, both sides

If the City staff will drop off the No Parking signs on Friday night, we will arrange to put them up Saturday morning.

- I. We also request permission to use the Safeway Field for parking September 8th -10th, 2023.
- J. Insurance policies/certificates of insurance for The Salmon Arm and Shuswap Lake Agricultural Association naming the City of Salmon Arm will be provided.

Thank you in advance,

Sincerely,

Mc Ewan

Jim McEwan Salmon Arm Fair manager

Att. Map of Parade route

The 2023 SALMON ARM FAIR PARADE ROUTE



The 2023 SALMON ARM FAIR PARADE ROUTE

The annual Salmon Arm Fair Parade will be from 10:15am to 12:00pm Saturday, September 9, 2023. Roadways on the parade route will be closed from approximately 9 a.m. to 12 p.m. and parking will not be permitted along the parade route. The parade route begins 5th St and 10th Ave SW. The parade continues east on 10th Avenue, turning north on Shuswap St SW, crossing the Highway 1.

After crossing the highway, the parade will turn right down Hudson St to Ross St. Here the parade turns left on Lakeshore Dr. And continues to the end of Lakeshore where it will turn south and cross the highway once again. Once across the highway, the parade will be south on 10th St SW turning left on 5th Ave SW and finish at the form up area on 5th St between 5th Ave & 10th Ave SW.

From:
Salmon Arm Cricket Club
200 Tr 200 TCH HWY
Salmon Arm BC
V1E 3X8
To,
The Honorable Mayor and Council of City of Salmon Arm
City Hall
P O Box 400
Salmon Arm BC

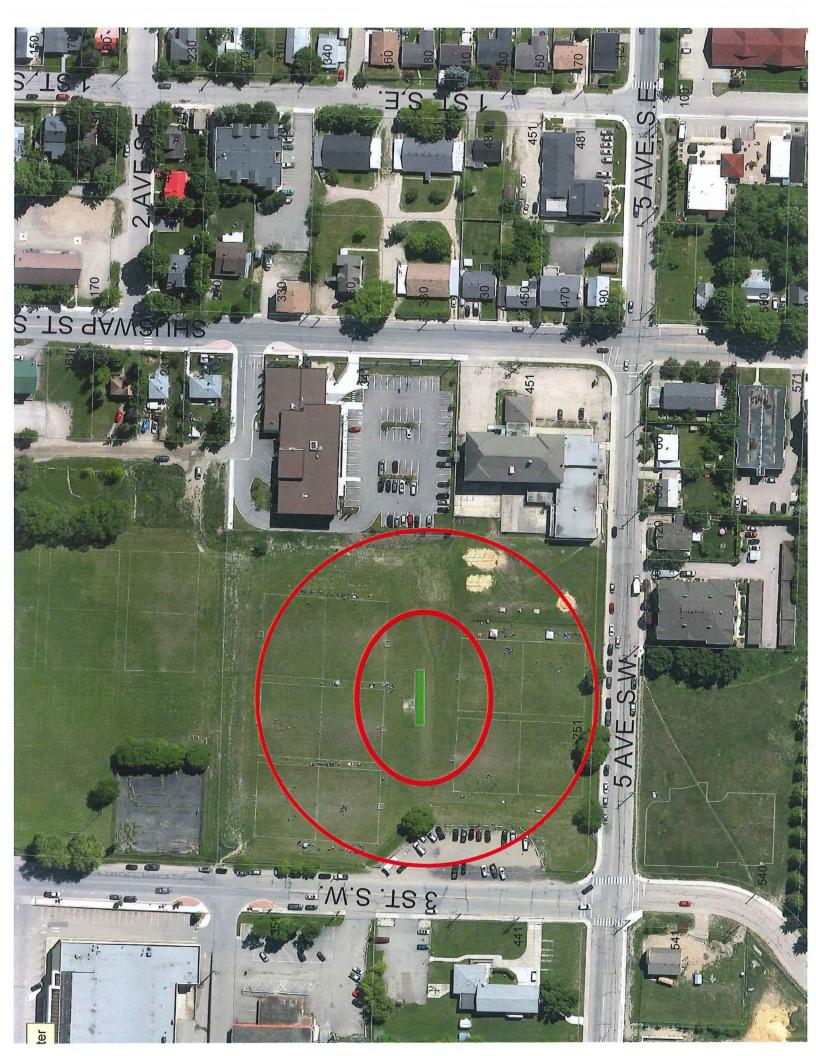
After consulting with City Staff, we have found a pitch that is suitable for use. We met with City Staff on the grounds at the Downtown Fields and have found a suitable area that works in between the soccer fields. We have purchased the Cricket Matt that will be laid down and paid for installation (approx. \$4600.00) but are asking the city if they would be able to contribute the work for the construction of the cement under pad. The team currently has 25 players from Salmon Arm and is playing weekly matches in Vernon, Revelstoke, Kelowna, Vancouver and would like to be able to host matches locally. This would bring in players from all over BC. Currently we don't have a pitch to practice and call our Home Grounds. The costs would be fairly minimal as it's about a day's work to get it all done.

Thank you,

Sunny Dhaliwal- President

Ajit Sran- Vice President and Secretary

Prasad Savanagouder- Treasurer



CITY OF SALMON ARM

ENGINEERING AND PUBLIC WORKS DEPARTMENT



2022 WORKS ESTIMATE Class 'D'

Date:

June 5, 2023

Project No.:

N/A

Prepared By:

DCG

PROJECT DESCRIPTION

CITY OF

Installation of Cricket Pitch

PROJECT DETAILS

Install Cricket pitch in accordance with installation instructions

DESCRIPTION	QUANTITY	UNIT		COST	EXT	ENSION
1 Levels, prep & grading	4	hr	\$	150	\$	600
2 Excavate area (4m x 31m)	4	hr	\$	350	\$	1,400
3 Supply 25mm- Gravel	4	m³	\$	50	\$	200
4 Install & compact 25mm- Gravel	4	hr	\$	250	\$	1,000
5 S&P Asphalt @ 50mm (contractor)	16	tonne	\$	294	\$	4,557
6 Supply Concrete (contractor)	6	m3	\$	270	\$	1,674
7 Install Concrete	6	hr	\$	282	\$	1,692
8 Reinstate Landscaping	1	LS	\$	500	\$	500
	SUBTOTAL	W/ Asphalt			\$	8,257
	SUBTOTAL	W/ Concrete	V		\$	7,066



Lake2Lake Ride for Rwanda September 16-17, 2023

The Wellspring Foundation for Education will be hosting our annual <u>Lake2Lake Ride for Rwanda</u> cycling fundraiser. This ride will travel through various areas within the City of Salmon Arm. We wanted to ensure that you were well informed of our proceedings. Should you have any questions or concerns, please do not hesitate to reach out to Sarah via email at <u>sarah@thewellspringfoundation.org</u>.

Ride Route: View on Strava (Dav 1, Dav 2)

When: September 16 - 17, 2023

Route Saturday, September 16th

- Entering city of Salmon Arm heading north via Auto Road
- Continue north onto 30th Street SE
- Turn left onto Okanagan Ave East
- Turn right at Alexander Street NE
- Turn left at Lakeshore Drive
- Slight left, then right onto Hwy #1 & riders will travel along for 69km

Estimated Time:

- Leave Vernon Christian School at 9:00am (slow riders) 10:00am (fast riders)
- Enter City of Salmon Arm between 11:00 am 2:00 pm
- Arrive at Eagle Bay Camp between 1:30pm (fast riders) 4:30pm (slow riders)

Route September 17th

- Enter city of Salmon Arm via TransCanada Hwy 1, travelling south
- Turn right off TransCanada Hwy and onto Salmon River Road
- Turn right onto 10th Ave SW
- Turn left onto 50th Street SW
- Turn right onto 50th Ave SW
- Turn left onto 70th Street SW
- Turn right onto 70th Ave SW
- Turn left onto 80th Street SW
- Leave city of Salmon Arm and continue onto Salmon River Road

Estimated Time:

- Leave Eagle Bay Camp at 9:00am (slow riders) 9:15am (fast riders)
- Enter City of Salmon Arm between 10am 12:30pm
- Arrive at Vernon Christian School between 12:30pm 4:00pm

Estimated Number of Participants: We anticipate between 75 – 100 participants.

Other information about the ride

- RCMP will be made aware of the ride
- Paramedic mobile unit participation
- Various rest stations with water, snacks & washrooms
- Rider support vehicles & baggage transport
- Signage & volunteers along route & intersections
- No traffic barriers or road stoppages

Rhonda West

From:

Barb Puddifant

Sent:

Monday, May 29, 2023 11:45 AM

To:

Rhonda West; Sue Wood

Subject:

FW: Rural Housing Crisis Survey for Parliamentary Secretary for Rural Development-6

questions

From: Kathy Hartman ·

Sent: Monday, May 29, 2023 11:44 AM

To: Kathy Hartman <

Subject: [External] Rural Housing Crisis Survey for Parliamentary Secretary for Rural Development-6 questions

To the CAO and Directors of Thompson/Shuswap/Columbia,

We (the New Denver and Area Housing Society) asked for, and received, a meeting with Roly Russell, Parliamentary Secretary for Rural Development and several AD Ministers of Housing, Land Use Policy, Rural Opportunities, and EFO. We discussed how the rural housing crisis need different solutions than the current opportunities that are very much geared to urban living. After explaining the situation, they asked if New Denver was unique, or if we had any evidence that other communities in BC has a similar issue. They were very interested in some of the suggested solutions. They asked that we return with evidence on just how widespread the issue is in rural BC. I thought I'd start in the Columbia Basin. We will take your anecdotal evidence back to the Ministry.

The issue: In New Denver, we don't have a housing crisis, we have an empty homes crisis. Stats Can is a bit misleading. According to the CBT State of the Basin occupied by usual residents table, only about 18% of our homes are 'not occupied by the usual resident' (a 2nd home) in New Denver. A quick count of my neighbourhood (The Orchard), on March 1 2023, indicated 53% of the homes were 'dark'. Some homes were snowbirds, some were on a winter vacation, but the large majority were 2nd homes left empty for most of the year. Most 2nd homes remain empty, are not Air BandB-ed, are rarely offered up as rental stock and almost never as year-round rental stock. Young families can't find rentals and the skyrocketing price of homes have driven them out of the area. Our businesses are closing for lack of customers and those that are open can't find staff. We are building a 10-unit affordable housing unit, but that doesn't solve the problem that families can't find year-round homes.

My request: If anyone of your staff and/or council or housing society could answer the following 6 survey questions and return this anecdotal evidence to us within the next two weeks, I will compile it and request a second meeting. We know the solutions to the rural housing issue. They were really interested in hearing these ideas. They want to hear from you. Thank you.

Survey: Please do not concern yourself with absolute accuracy. Anecdotal is fine.

- What percentage of homes in your community do you feel are 'dark' in the off-season?
- 2. How much rental stock do you feel you have for families that move into your community?
- 3. Are the houses for sale in your community affordable to the people who want to live year round in your community?
- 4. What are the causes of 'dark houses" in your community?
 - o Air B and B
 - Snowbirds
 - Minimally used second properties

- o Other
- 5. What percentage of 2nd homes are owned by in province and out of province owners
- 6. What would you like to see the provincial government do to help increase the rental stock and the affordability of housing (both renting or buying) for year-round residents.

Thank you for taking the time to do this. I will get back to you with the response form our second meeting. Pease send your answers to kathyhartman@hotmail.com. You may contact me there anytime if you have questions or you'd rather do the survey over the phone.

Cheers

Kathy Hartman

Vice-president of the New Denver and Area Housing Society



New Denver & Area Housing Society

https://www.ndahs.org/

Rhonda West

From:

Barb Puddifant

Sent:

Wednesday, May 31, 2023 7:57 AM

To:

Rhonda West

Subject:

FW: BC E-Bike Rebate Program

From: Transportation, Active TRAN:EX <ActiveTransportation@gov.bc.ca>

Sent: Tuesday, May 30, 2023 4:33 PM

To: Transportation, Active TRAN:EX <ActiveTransportation@gov.bc.ca>

Subject: [External] BC E-Bike Rebate Program

Hello,

We are excited to share that the province <u>announced</u> a new e-bike incentive program. The <u>BC E-Bike Rebate Program</u> launches on June 1, 2023. The program provides income-tiered rebates (\$350-1,400) for all B.C. residents. There is \$6 million in funding available. Please consider promoting the program to your residents to provide affordable and accessible transportation options. Contact us at <u>ActiveTransportation@gov.bc.ca</u> to request a media kit.

Complementary <u>safety education</u> is being provided through HUB Cycling. This includes free on-line courses and free/low cost in-person options in many communities across B.C. (with more locations coming soon).

There is also an option for Indigenous and local governments to provide supplemental funding through the Program for rebates reserved for your local residents. Please contact ActiveTransportation@gov.bc.ca if you are interested in learning more.

Thank you for your continued support for active transportation. These new e-bike rebates help more people access the active transportation facilities your communities are building.

Thank you,

Active Transportation Team

Ministry of Transportation and Infrastructure

Rhonda West

From:

Barb Puddifant

Sent:

Thursday, June 1, 2023 10:52 AM

To:

Rhonda West

Subject:

FW: Information Session for the Local Community Accessibility Grant Program

From: Accessibility <accessibility@sparc.bc.ca>

Sent: Thursday, June 1, 2023 10:01 AM

Subject: [External] Information Session for the Local Community Accessibility Grant Program

SPARC BC is excited to invite you to join our webinars to learn more about the Local Community Accessibility Grant Program!

On May 29th, the second day of National Accessibility Week, the Accessibility Directorate with the Ministry of Social Development and Poverty Reduction (MSDPR) announced that \$5 million is allocated for local and regional governments to aid in implementing accessibility initiatives.

This initiative provides one-time funding for local governments, of up to \$25,000, to remove barriers for persons with disabilities by implementing one of the initiatives identified in their Accessibility Plans, or by their Accessibility Committees or feedback mechanisms.

In our webinar we will discuss:

- Eligible projects for the \$25K grant,
- The two Streams local or regional governments can apply for,
- Your responsibilities when receiving the grant,
- The application process and timing,
- Followed by a question and answer.

Please note, our webinars will feature ASL interpretation as well as CART captioning.

Between June and July, 2023 we will be doing a series of information sessions over zoom every Tuesday from 10-11:30am. To sign up for one of the sessions please click this link:

https://us06web.zoom.us/webinar/register/WN cqUuSnHnRg-sREN6mfAaTQ#/registration

You can also learn more by reading our Program Overview which you can find on our website through this link: https://www.sparc.bc.ca/partnerships/local-community-accessibility-grant-program/

If you have any questions, please reach out to accessibility@sparc.bc.ca or you can call Lily, the Accessibility Initiatives Manager, directly on 604-718-7748.

We're excited to work with you to make your community more accessible!

Warm regards,

Lily Connor

Manager - Accessibility Initiatives

Social Planning and Research Council of British Columbia (SPARC BC)

Charity registration number# 12168 3916 RR0001

4445 Norfolk Street, Burnaby, B.C. V5G 0A7

T: 604-718-7748

E: lconnor@sparc.bc.ca
W: www.sparc.bc.ca



people. planning. positive change.

SPARC BC works with communities in building a just and healthy society for all.

SPARC BC acknowledges that our office is located on the ancestral and unceded homelands of the hańqamińam and Skwxwú7mesh speaking peoples. They have been custodians of this land for thousands of years and we would like to pay our respect to the Elders and knowledge keepers both past and present. We are grateful for the opportunity to be on this shared territory.

Rhonda West

From:

Erin Jackson

Sent:

Friday, June 2, 2023 12:42 PM

To:

Rhonda West

Subject:

FW: UBCM Convention 2023 Invitation

Attachments:

BC Hydro UBCM 2023 Meeting Request Form.docx

For the Agenda please!

Erin

From: Cooper, David < David.Cooper@bchydro.com>

Sent: Friday, June 2, 2023 12:15 PM

Subject: [External] UBCM Convention 2023 Invitation



June 2, 2023

Mayor and Council,

BC Hydro is once again offering local government officials the opportunity to meet with senior company executives during the week of September 18, at the 2023 UBCM Convention in Vancouver, to discuss an issue of concern facing your community.

As always, we are pleased to meet with you outside of UBCM to discuss and resolve any issues.

If you would like to arrange a meeting, the deadline to submit the attached request form is **Friday**, **June 30**. Please return the form to Matt Lahti (matt.lahti@bchydro.com).

We will provide full meeting details in early September when we confirm the date and time.

If you have any questions, please don't hesitate to contact me.

Sincerely,

Dag Sharman Community Relations Manager, Southern Interior 250-308-7633 dag.sharman@bchydro.com

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Rhonda West

From: Barb Puddifant

Sent: Monday, June 5, 2023 9:42 AM

To: Rhonda West

Subject: FW: [External] Urgent - UBCM Child Care Resolution

From: sharon gregson

Sent: Sunday, June 4, 2023 8:34 PM

To: Barb Puddifant <ppuddifant@salmonarm.ca>; Alan Harrison <aharrison@salmonarm.ca>

Subject: [External] Urgent - UBCM Child Care Resolution

Sharon Gregson Coalition of Child Care Advocates of BC 2772 East Broadway Vancouver, BC V5M 1Y8

Mayor Alan Harrison The City of Salmon Arm 500 - 2 Avenue NE Salmon Arm, BC V1E 4N2

Subject: Urgent - UBCM Child Care Resolution

To Honourable Mayor Alan Harrison and Council,

The Coalition of Child Care Advocates of BC is a longstanding, non-profit organization dedicated to the creation of a high-quality, affordable, accessible child care system in BC. We appreciate that your Council shares this vision to support families with young children, and the local economy in your community.

In recent years there has been measurable progress toward a quality child care system in BC with historic provincial and federal investments. New publicly-funded affordability measures for families including \$10aDay sites, wage enhancements for educators, and more licensed programs are making a positive difference.

However, local and Indigenous governments and nonprofit organizations across BC are still facing significant child care challenges, with demand for licensed child care outstripping supply, and a severe shortage of early childhood educators.

One of the major obstacles facing local governments when they want to expand child care in their communities is the grant-based application process required to access provincial capital funding. The current process places a major burden on applicants, usually local government staff working with non-profit agencies, requiring them to coordinate all aspects of design, development, and implementation. Significant technical expertise and organizational capacity are also necessary to complete the online applications, which often does not exist at the local level or pulls resources away from other municipal duties.

To address this urgent issue, we request that your Council adopt the resolution shared below, as originally supported by the Regional District of Nanaimo, or a similar resolution. Once adopted we hope the resolution will be forwarded to your local area association and on to the 2023 UBCM Convention.

This resolution urges the Ministry of Education and Child Care to provide multi-year funding to local and Indigenous governments and non-profit organizations to enhance their organizational capacity to coordinate the current grant applications process.

The resolution further requests the Ministry of Education and Child Care to replace the current grant-based application process with a systematic expansion of universal child care that upholds UNDRIP obligations and supports the involvement of, but does not rely on, local and Indigenous governments and nonprofit organizations to coordinate design and implementation.

Evidence-based research makes clear that such a systemic approach will lead to a more equitable and accessible child care system across British Columbia.

Thank you for your attention to this matter, and for recognizing that child care is a priority for healthy communities. Please reach out should any clarification be required.

Yours sincerely,

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Sharon Gregson Spokesperson \$10aDay Coalition of Child Care Advocates of BC

Sample Resolution

WHEREAS the Ministry of Education and Child Care is responsible for B.C.'s \$10/day child care program, and ChildCareBC's growing system of universal child care has been life-changing for families, with demand far outstripping supply;

AND WHEREAS the current grant-based process to expand universal child care relies on grant applicants to coordinate all aspects of design and implementation, and local and Indigenous governments and nonprofit organizations often lack the resources to successfully manage this process in accordance with UBCM-funded child care needs assessments and action plans:

THEREFORE BE IT RESOLVED that while the Province continues to rely on individual grant applicants to plan and develop child care expansion, that instead, the Province provide multi-year funding to local and Indigenous governments and nonprofit organizations to support resources to coordinate this process:

AND BE IT FURTHER RESOLVED that UBCM urge the Ministry of Education and Child Care to replace the current grant-based application process with a systematic expansion of universal child care that upholds UNDRIP obligations and supports the involvement of, but does not rely on, local and Indigenous governments and nonprofit organizations to coordinate design and implementation.

AGENDA

SALMONARM SMALL CITY, BIG IDEAS City of Salmon Arm Regular Council Meeting

Monday, June 12, 2023 1:30 p.m.

[Public Session Begins at 2:30 p.m.] Council Chambers of City Hall 500 – 2 Avenue NE Salmon Arm, BC

Electronic Meeting Link: https://meet.goto.com/931301501
Phone Access: Canada: +1(647) 497-9373 / Access Code: 931-301-501

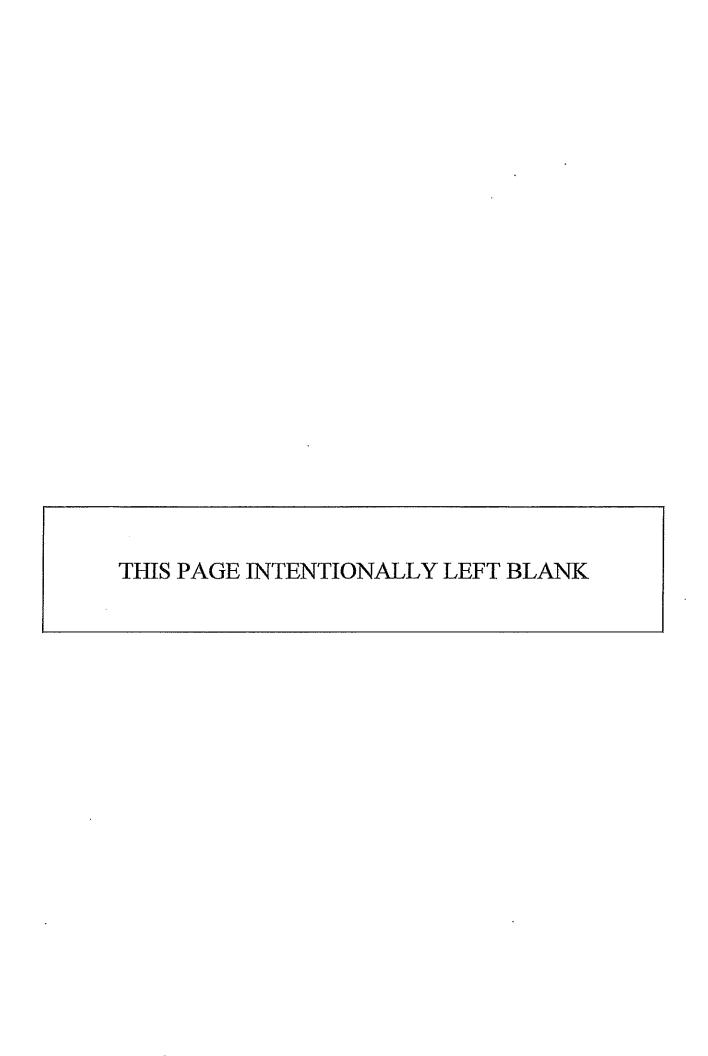
Page #	Item #	Description
	1.	CALL TO ORDER
1-2	2.	IN-CAMERA SESSION
	3.	ACKNOWLEDGEMENT OF TRADITIONAL TERRITORY We acknowledge that we are gathering here on the traditional territory of the Secwepemc people, with whom we share these lands and where we live and work together.
	4.	ADOPTION OF AGENDA
	5.	DISCLOSURE OF INTEREST
	6.	CONFIRMATION OF MINUTES
3 - 12	1.	Regular Council Meeting Minutes of May 23, 2023
13 – 16	2.	Special Council Meeting Minutes of June 1, 2023
	7.	COMMITTEE REPORTS
17 – 24	1.	Development and Planning Services Committee Meeting Minutes of June 5, 2023
	8.	COLUMBIA SHUSWAP REGIONAL DISTRICT UPDATE
25 – 30	1.	CSRD Connect - May 2023
	9.	STAFF REPORTS
31 – 34	1.	Manager of Permits & Licensing – Licensing of Special Events on City Property - 2023
35 - 38	2.	Director of Planning & Community Services – UBCM Complete Communities Grant Program

57 - 60 4. Director of Engineering & Public Works - Annual Transit Operating Agreement 61 - 64 5. Director of Engineering & Public Works - Supply of Bulk Aviation Fuels and Related Delivery Services 65 - 68 6. Director of Engineering & Public Works - Zone 2 Pump Station Design - Budget Amendment 69 - 70 7. Chief Administrative Officer - Environmental Advisory Committee - Citizen at Large Membership Appointment 10. INTRODUCTION OF BYLAWS 71 - 88 1. City of Salmon Arm Zoning Amendment Bylaw No. 4579 [ZON-1264; Brentwell Construction Ltd./Crevier, L. & S.; 31 4 Street SE; Text Amendment; Addition to Definitions and to R-5 (High Density Residential Zone)] - First and Second Reading 89 - 104 2. City of Salmon Arm Zoning Amendment Bylaw No. 4590 [ZON-1269; City of Salmon Arm Zoning Amendment; Accessible Parking Regulations] - First and Second Reading 105 - 108 3. City of Salmon Arm Fee for Service Amendment Bylaw No. 4592 [Parking Violations] - First, Second and Third Reading 109 - 112 4. City of Salmon Arm Subdivision and Development Servicing Bylaw No. 4293 - First and Second Reading 11. RECONSIDERATION OF BYLAWS 12. CORRESPONDENCE 13 - 114 1 Informational Correspondence 13. NEW BUSINESS 14. PRESENTATIONS 115 - 124 1 Presentation 4:00 - 4:15 (approximately) M. Matheson, Team Leader, 2022 Shuswap Tourism Annual Review Presentation 4:15 - 4:30 (approximately) Isha Matous-Gibbs, Urban Matters - Poverty Reduction Grant 15. COUNCIL STATEMENTS 16. SALMON ARM SECONDARY YOUTH COUNCIL	39 - 56	3.	Director of Planning & Community Services - Official Community Plan Bylaw No. 4000 Review
61 - 64 5. Director of Engineering & Public Works - Supply of Bulk Aviation Fuels and Related Delivery Services 65 - 68 6. Director of Engineering & Public Works - Zone 2 Pump Station Design - Budget Amendment 69 - 70 7. Chief Administrative Officer - Environmental Advisory Committee - Citizen at Large Membership Appointment 10. INTRODUCTION OF BYLAWS 1. City of Salmon Arm Zoning Amendment Bylaw No. 4579 [ZON-1264; Brentwell Construction Ltd./Crevier, L. & S.; 31 4 Street SE; Text Amendment; Addition to Definitions and to R-5 (High Density Residential Zone)] - First and Second Reading 89 - 104 2. City of Salmon Arm Zoning Amendment Bylaw No. 4590 [ZON-1269; City of Salmon Arm Zoning Amendment; Accessible Parking Regulations] - First and Second Reading 105 - 108 3. City of Salmon Arm See for Service Amendment Bylaw No. 4592 [Parking Violations] - First, Second and Third Reading 109 - 112 4. City of Salmon Arm Subdivision and Development Servicing Bylaw No. 4293 - First and Second Reading 11. RECONSIDERATION OF BYLAWS 12. CORRESPONDENCE 13. NEW BUSINESS 14. PRESENTATIONS 15 - 124 1. PRESENTATIONS 15 - 125 - 160 2. Presentation 4:00 - 4:15 (approximately) M. Matheson, Team Leader, 2022 Shuswap Tourism Annual Review Presentation 4:15 - 4:30 (approximately) Isha Matous-Gibbs, Urban Matters - Poverty Reduction Grant 15. COUNCIL STATEMENTS 16. SALMON ARM SECONDARY YOUTH COUNCIL	57 – 60	4.	Director of Engineering & Public Works - Annual Transit Operating
65 - 68 6. Director of Engineering & Public Works - Zone 2 Pump Station Design - Budget Amendment 69 - 70 7. Chief Administrative Officer - Environmental Advisory Committee - Citizen at Large Membership Appointment 10. INTRODUCTION OF BYLAWS 71 - 88 1. City of Salmon Arm Zoning Amendment Bylaw No. 4579 [ZON-1264; Brentwell Construction Ltd./Crevier, L. & S.; 31 4 Street SE; Text Amendment; Addition to Definitions and to R-5 (High Density Residential Zone)] - First and Second Reading 89 - 104 2. City of Salmon Arm Zoning Amendment Bylaw No. 4590 [ZON-1269; City of Salmon Arm Zoning Amendment; Accessible Parking Regulations] - First and Second Reading 105 - 108 3. City of Salmon Arm Fee for Service Amendment Bylaw No. 4592 [Parking Violations] - First, Second and Third Reading 109 - 112 4. City of Salmon Arm Subdivision and Development Servicing Bylaw No. 4293 - First and Second Reading 11. RECONSIDERATION OF BYLAWS 12. CORRESPONDENCE 113 - 114 1. Informational Correspondence 13. NEW BUSINESS 14. PRESENTATIONS 115 - 124 1. PRESENTATIONS 115 - 124 1. PRESENTATIONS 125 - 160 2. Presentation 4:00 - 4:15 (approximately) M. Matheson, Team Leader, 2022 Shuswap Tourism Annual Review 125 - 160 2. Presentation 4:15 - 4:30 (approximately) Isha Matous-Gibbs, Urban Matters - Poverty Reduction Grant 15. COUNCIL STATEMENTS 16. SALMON ARM SECONDARY YOUTH COUNCIL	61 – 64	5.	Director of Engineering & Public Works - Supply of Bulk Aviation
7. Chief Administrative Officer - Environmental Advisory Committee - Citizen at Large Membership Appointment 10. INTRODUCTION OF BYLAWS 71 - 88 1. City of Salmon Arm Zoning Amendment Bylaw No. 4579 [ZON-1264; Brentwell Construction Ltd./Crevier, L. & S.; 31 4 Street SE; Text Amendment; Addition to Definitions and to R-5 (High Density Residential Zone)] - First and Second Reading 89 - 104 2. City of Salmon Arm Zoning Amendment Bylaw No. 4590 [ZON-1269; City of Salmon Arm; Text Amendment; Accessible Parking Regulations] - First and Second Reading 105 - 108 3. City of Salmon Arm Fee for Service Amendment Bylaw No. 4592 [Parking Violations] - First, Second and Third Reading 109 - 112 4. CITY of Salmon Arm Subdivision and Development Servicing Bylaw No. 4293 - First and Second Reading 11. RECONSIDERATION OF BYLAWS 12. CORRESPONDENCE 13. NEW BUSINESS 14. PRESENTATIONS 15 - 124 1 PRESENTATIONS 175 - 124 1 PRESENTATIONS 1 Presentation 4:00 - 4:15 (approximately) M. Matheson, Team Leader, 2022 Shuswap Tourism Annual Review Presentation 4:15 - 4:30 (approximately) Isha Matous-Gibbs, Urban Matters - Poverty Reduction Grant 15. COUNCIL STATEMENTS 16. SALMON ARM SECONDARY YOUTH COUNCIL	65 – 68	6.	Director of Engineering & Public Works - Zone 2 Pump Station
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M. Matheson, Team Leader, 2022 Shuswap Tourism Annual Review 125 - 160 2. Presentation 4:15 - 4:30 (approximately) Isha Matous-Gibbs, Urban Matters - Poverty Reduction Grant 15. COUNCIL STATEMENTS 16. SALMON ARM SECONDARY YOUTH COUNCIL	113 – 114	12. 1.	RECONSIDERATION OF BYLAWS CORRESPONDENCE Informational Correspondence
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15. COUNCIL STATEMENTS 16. SALMON ARM SECONDARY YOUTH COUNCIL		12. 1. 13. 14.	RECONSIDERATION OF BYLAWS CORRESPONDENCE Informational Correspondence NEW BUSINESS PRESENTATIONS Presentation 4:00 – 4:15 (approximately)
16. SALMON ARM SECONDARY YOUTH COUNCIL	115 - 124	12. 1. 13. 14.	RECONSIDERATION OF BYLAWS CORRESPONDENCE Informational Correspondence NEW BUSINESS PRESENTATIONS Presentation 4:00 – 4:15 (approximately) M. Matheson, Team Leader, 2022 Shuswap Tourism Annual Review Presentation 4:15 – 4:30 (approximately)
	115 - 124	12. 1. 13. 14. 1. 2.	RECONSIDERATION OF BYLAWS CORRESPONDENCE Informational Correspondence NEW BUSINESS PRESENTATIONS Presentation 4:00 – 4:15 (approximately) M. Matheson, Team Leader, 2022 Shuswap Tourism Annual Review Presentation 4:15 – 4:30 (approximately) Isha Matous-Gibbs, Urban Matters – Poverty Reduction Grant
17. NOTICE OF MOTION	115 - 124	12. 1. 13. 14. 1. 2.	RECONSIDERATION OF BYLAWS CORRESPONDENCE Informational Correspondence NEW BUSINESS PRESENTATIONS Presentation 4:00 – 4:15 (approximately) M. Matheson, Team Leader, 2022 Shuswap Tourism Annual Review Presentation 4:15 – 4:30 (approximately) Isha Matous-Gibbs, Urban Matters – Poverty Reduction Grant COUNCIL STATEMENTS
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18. UNFINISHED BUSINESS AND DEFERRED/TABLED ITEMS	115 - 124	12. 1. 13. 14. 1. 2.	RECONSIDERATION OF BYLAWS CORRESPONDENCE Informational Correspondence NEW BUSINESS PRESENTATIONS Presentation 4:00 – 4:15 (approximately) M. Matheson, Team Leader, 2022 Shuswap Tourism Annual Review Presentation 4:15 – 4:30 (approximately) Isha Matous-Gibbs, Urban Matters – Poverty Reduction Grant COUNCIL STATEMENTS
	115 - 124	12. 1. 13. 14. 1. 2. 15. 16. 17.	RECONSIDERATION OF BYLAWS CORRESPONDENCE Informational Correspondence NEW BUSINESS PRESENTATIONS Presentation 4:00 – 4:15 (approximately) M. Matheson, Team Leader, 2022 Shuswap Tourism Annual Review Presentation 4:15 – 4:30 (approximately) Isha Matous-Gibbs, Urban Matters – Poverty Reduction Grant COUNCIL STATEMENTS SALMON ARM SECONDARY YOUTH COUNCIL NOTICE OF MOTION

19. OTHER BUSINESS 161 - 168 1. Salmon Arm Folk Music Society - Request for Construction Approval 20. QUESTION AND ANSWER PERIOD

7:00 p.m.

Page #	Item #	Description
	21.	DISCLOSURE OF INTEREST
	22.	HEARINGS
169 – 184	1.	Development Variance Permit Application No. VP-581 [Vandermeer, R. & M.; 2900 40 Street NE; Servicing requirements]
185 – 202	2.	Development Variance Permit Application No. VP-567 [McLeod, T./Launch Construction Ltd.; 3390 30 Street NE; Servicing requirements]
203 - 218	3.	Development Variance Permit Application No. VP-574 [0695662 BC Ltd./Massier, G.; 1631 10 Street SE and 1561, 1581, 1621, 1641, 1661 and 1681 9 Street SE; Servicing and Retaining Wall requirements]
	23.	STATUTORY PUBLIC HEARINGS
219 – 226	1.	Zoning Amendment Application No. ZON-1265 [EWDS Holdings Ltd.; 2760 Auto Road SE; R-1 to R-8]
227 - 230	24. 1.	RECONSIDERATION OF BYLAWS City of Salmon Arm Zoning Amendment Bylaw No. 4580 [ZON-1265; EWDS Holdings Ltd.; 2760 Auto Road SE; R-1 to R-8] – Third and Final Reading
	25.	QUESTION AND ANSWER PERIOD
231 - 232	26.	ADJOURNMENT



Item 2

CITY OF SALMON ARM

Date: June 12, 2023

Moved: Councillor Lindgren

Seconded: Councillor Wallace Richmond

THAT: pursuant to Section 90(1)(a) personal information about an identifiable individual who holds or is being considered for a position as an officer, employee or agent of the municipality or another position appointed by the municipality; (c) labour relations or other employee relations; (d) the security of the property of the municipality; (g) litigation or potential litigation affecting the municipality (2 items); (2)(b) the consideration of information received and held in confidence relating to negotiations between the municipality and a provincial government or the federal government or both, or between a provincial government or the federal government or both and a third party; of the Community Charter, Council move In-Camera.

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Item 6.1

CITY OF SALMON ARM

<u>Date: June 12, 2023</u>

Moved: Councillor Lavery

Seconded: Councillor Cannon

THAT: the Regular Council Meeting Minutes of May 23, 2023, be adopted as circulated.

REGULAR COUNCIL

Minutes of a Regular Meeting of Council of the City of Salmon Arm held in the Council Chambers of City Hall 500 – 2 Avenue NE and by electronic means, at 1:00 p.m. and reconvened at 2:30 p.m. on Tuesday, May 23, 2023.

PRESENT:

Mayor A. Harrison

Councillor K. Flynn

Councillor T. Lavery (participated remotely)

Councillor L. Wallace Richmond (participated remotely)

Councillor D. Gonella (participated remotely)

Councillor D. Cannon

Councillor S. Lindgren (participated remotely)

Chief Administration Officer E. Jackson

Director of Corporate Services S. Wood

Director of Engineering & Public Works R. Niewenhuizen

Director of Planning & Community Services G. Buxton

Chief Financial Officer C. Van de Cappelle

Fire Chief B. Shirley

Deputy Corporate Officer R. West

ABSENT:

1. CALL TO ORDER

Mayor Harrison called the meeting to order at 1:00 p.m.

2. IN-CAMERA SESSION

0250-2023

Moved: Councillor Flynn

Seconded: Councillor Cannon

THAT: pursuant to Section 90(1)(c) labour relations or other employee relations; (d) the security of the property of the municipality; and (e) the acquisition, disposition or expropriation of land or improvements, if the council considers that disclosure could reasonably be expected to harm the interests of the municipality; of the

Community Charter, Council move In-Camera.

CARRIED UNANIMOUSLY

Council moved In-Camera at 1:00 p.m. Council returned to Regular Session at 2:22 p.m. Council recessed until 2:30 p.m.

3. ACKNOWLEDGEMENT OF TRADITIONAL TERRITORY

Mayor Harrison read the following statement: "We acknowledge that we are gathering here on the traditional territory of the Secwepemc people, with whom we share these lands and where we live and work together."

4. REVIEW OF AGENDA

5. <u>DISCLOSURE OF INTEREST</u>

Councillor Flynn declared a conflict with Items 9.5 and 12.1.5 as the applicants are clients of his firm.

6. CONFIRMATION OF MINUTES

1. Regular Council Meeting Minutes of May 8, 2023

0251-2023

Moved: Councillor Wallace Richmond

Seconded: Councillor Lindgren

THAT: the Regular Council Meeting Minutes of May 8, 2023, be adopted as

circulated.

CARRIED UNANIMOUSLY

7. COMMITTEE REPORTS

1. Development and Planning Services Committee Meeting Minutes of May 15, 2023

0252-2023

Moved: Councillor Gonella Seconded: Councillor Lavery

THAT: the Development and Planning Services Committee Meeting Minutes of

May 15, 2023 be received as information.

CARRIED UNANIMOUSLY

2. <u>Downtown Parking Commission Meeting Minutes of May 16, 2023</u>

0253-2023

Moved: Councillor Lavery Seconded: Councillor Cannon

THAT: the Downtown Parking Commission Meeting Minutes of May 16, 2023 be

received as information.

CARRIED UNANIMOUSLY

8. COLUMBIA SHUSWAP REGIONAL DISTRICT UPDATE

9. STAFF REPORTS

1. Fire Chief - Self Contained Breathing Apparatus Purchase

0254-2023

Moved: Councillor Lavery Seconded: Councillor Lindgren

THAT: Council accept the quote from Rocky Mountain Phoenix in the amount of \$329,765.00 plus taxes for the purchase of new MSA brand Self Contained

Breathing Apparatus (SCBA).

CARRIED UNANIMOUSLY

9. STAFF REPORTS - continued

2. <u>Manager of Permits & Licensing - Lakeside Bowling Ltd. (Permanent Patio) - 1881 9</u> Avenue NE

0255-2023

Moved: Councillor Cannon Seconded: Councillor Flynn

THAT: Council of the City of Salmon Arm has no objection to the creation of a permanent licensed patio at 1881 – 9th Avenue NE for the Tandoor Bar and Grill;

AND THAT: Council of the City of Salmon Arm is opting out of the comment and public consultation process.

CARRIED UNANIMOUSLY

3. <u>Director of Engineering & Public Works - Zone 5 Booster Station - Centrix Control Solutions Contract Award</u>

0256-2023

Moved: Councillor Wallace Richmond

Seconded: Councillor Gonella

THAT: the City's Purchasing Policy No. 7.13 be waived in the procurement of consulting services related to programming and commissioning services for the Zone 5 Booster station project to authorize sole sourcing of same to Centrix Control Solutions;

AND THAT: Council approve the award of consulting services to Centrix Control Solutions for the total quoted price of \$11,900.00 plus taxes as applicable for the Zone 5 Booster station,

CARRIED UNANIMOUSLY

4. <u>Director of Engineering & Public Works - RCMP Guard Room Counter Improvements - Budget Reallocation</u>

0257-2023

Moved: Councillor Flynn Seconded: Councillor Cannon

THAT: the 2023 Budget contained in the 2023-2027 Financial Plan Bylaw be amended to reflect additional funding in the amount of \$20,000.00, which includes the additional funds and contingency for project construction costs, reallocated from RCMP Building Major Maintenance Reserve.

CARRIED UNANIMOUSLY

Councillor Flynn declared a conflict and left the meeting at 2:50 p.m.

5. <u>Director of Engineering & Public Works – 30th Street SE Watermain Upgrade – Contract Award</u>

0258-2023

Moved: Councillor Lindgren Seconded: Councillor Gonella

THAT: Council approve the award of consulting services to Lawson Engineering Ltd. for the total quoted price of \$17,455.00 plus taxes as applicable for the 30th Street SE (20 Avenue SE) Watermain upgrade design and tendering services;

9. STAFF REPORTS - continued

5. <u>Director of Engineering & Public Works - 30th Street SE Watermain Upgrade - Contract</u>
Award

AND THAT: the City's Purchasing Policy No. 7.13 be waived in the procurement of consulting services related to the 30th Street SE (20 Avenue SE) Watermain upgrade project to authorize sole sourcing of same to Lawson Engineering Ltd.

CARRIED UNANIMOUSLY

Councillor Flynn returned to the meeting at 2:54 p.m.

6. <u>Director of Engineering & Public Works – Elks Park – Baseball Fields Irrigation Repairs</u>
– For Information

0259-2023

Moved: Councillor Cannon Seconded: Councillor Flynn

THAT: Council allocate up to \$6,000.00 from Council Initiatives for irrigation

repairs at the Elks Park Baseball Fields.

Amendment:

Moved: Councillor Lavery Seconded: Councillor Flynn

THAT: the irrigation repairs at the Elks Park Baseball Fields are contingent upon

the support of the Elks Board.

CARRIED UNANIMOUSLY

Motion as amended:

CARRIED

Councillor Lindgren Opposed

7. <u>Director of Engineering & Public Works - McGuire Lake Pathway Lighting - For Information</u>

For information.

Councillor Lavery left the meeting at 3:14 p.m. and returned to the meeting at 3:19 p.m.

8. Chief Financial Officer - Shuswap Watershed Council - For Information

For information.

10. **INTRODUCTION OF BYLAWS**

1. City of Salmon Arm Zoning Amendment Bylaw No. 4580 [ZON-1265; EWDS Holdings Ltd.; 2760 Auto Road SE; R-1 to R-8] - First and Second Reading

0260-2023

Moved: Councillor Cannon Seconded: Councillor Flynn

THAT: the Bylaw entitled City of Salmon Arm Zoning Amendment Bylaw No.

4580 be read a first and second time.

CARRIED UNANIMOUSLY

11. RECONSIDERATION OF BYLAWS

1. City of Salmon Arm Fee for Service Amendment Bylaw No. 4587 [Building Permit Review and Inspection Fees - Final Reading

0261-2023

Moved: Councillor Lindgren Seconded: Councillor Gonella

THAT: the Bylaw entitled City of Salmon Arm Fee for Service Amendment Bylaw

No. 4587 be read a final time.

CARRIED UNANIMOUSLY

12. CORRESPONDENCE

- 1. Informational Correspondence
 - 6. P. Wright, RCMP Musical Ride - Email dated May 10, 2023 - Request to Use Safeway Fields July 1 and 2, 2023

0262-2023

Moved: Councillor Cannon Seconded: Councillor Flynn

THAT: Council authorize the Rotary Club of Salmon Arm and the Salmon Arm and Shuswap Lake Agricultural Association to use Safeway Fields on July 1 and 2, 2023 for vehicle parking for attendees of the RCMP Musical Ride, subject to booking through the Shuswap Recreation Society and the provision of adequate liability insurance.

CARRIED UNANIMOUSLY

10. Interior Health, Office of the Medical Health Officers - Letter dated April 14, 2023 - Recent Exemption to the Controlled Drug and Substances Act -Recommendation to Municipalities

0263-2023

Moved: Councillor Flynn Seconded: Councillor Cannon

THAT: following referral to the Social Impact Advisory Committee, Council draft a letter to the Province asking for more support and protection for communities

regarding substance use in public spaces.

CARRIED UNANIMOUSLY

Councillor Flynn declared a conflict and left the meeting at 3:58 p.m.

12. CORRESPONDENCE - continued

1. <u>Informational Correspondence</u>

5. T. Timoffee, Early Years Family Navigator and Outdoor Play Facilitator,
Shuswap Children's Association – Letter dated May 4, 2023 – Travelling Tots
Playgroup - Request to Use Fletcher Park June 27, 2023

0264-2023

Moved: Councillor Cannon

Seconded: Councillor Wallace Richmond

THAT: Council authorize the Shuswap Children's Association to use Fletcher Park for the Travelling Tots Playgroup on June 27, 2023 from 9:00 a.m. to 12:00 p.m.

subject to the provision of adequate liability insurance.

CARRIED UNANIMOUSLY

Councillor Flynn returned to the meeting at 3:59 p.m.

7. E. Cleaver, School Director, Maple Tree Montessori - Letter received May 16, 2023 - Request to use Blackburn Gazebo - End of School Year Potluck and Celebration - June 30, 2023

0265-2023

Moved: Councillor Cannon Seconded: Councillor Gonella

THAT: Council authorize Maple Tree Montessori to use the Blackburn Park Gazebo for an end of school year potluck and celebration on June 30, 2023 from 11:00 a.m. to 2:00 p.m., subject to the provision of adequate liability insurance.

CARRIED UNANIMOUSLY

2. 2022 MRDT Annual Performance Report

0266-2023

Moved: Councillor Cannon Seconded: Councillor Flynn

THAT: Council authorize the submission of the 2022 MRDT Annual Performance

Report to the Province.

CARRIED UNANIMOUSLY

13. NEW BUSINESS

The meeting recessed at 4:07 p.m. The meeting reconvened at 4:10 p.m.

14. PRESENTATIONS

1. <u>Dr. Scott McKee - Critical Care Hospital Improvements at Shuswap Lake General Hospital (SLGH)</u>

Dr. Scott McKee, Head of Internal Medicine and Dr. Alison Howatt, Chief of Staff, Shuswap Lake General Hospital, provided an overview of the need for critical care hospital improvements at Shuswap Lake General Hospital and were available to answer questions from Council.

14. PRESENTATIONS - continued

1. <u>Dr. Scott McKee - Critical Care Hospital Improvements at Shuswap Lake General Hospital (SLGH)</u>

Councillor Cannon left the meeting at 4:58 p.m. and returned to the meeting at 5:00 p.m.

2. <u>Isha Matous-Gibbs, Urban Matters - Poverty Reduction Grant</u>

0267-2023 Moved: Councillor Lindgren

Seconded: Councillor Wallace Richmond

THAT: Council accept the Poverty Reduction De-Stigmatization, and Awareness

Campaign report dated May, 2023.

CARRIED UNANIMOUSLY

- 15. <u>COUNCIL STATEMENTS</u>
- 16. SALMON ARM SECONDARY YOUTH COUNCIL
- 17. NOTICE OF MOTION
- 18. UNFINISHED BUSINESS AND DEFERRED / TABLED ITEMS
- 19. OTHER BUSINESS
- 20. QUESTION AND ANSWER PERIOD

0268-2023 Moved: Councillor Cannon

Seconded: Councillor Flynn

THAT: pursuant to Section 90(1)(d) the security of the property of the municipality; and (e) the acquisition, disposition or expropriation of land or improvements, if the council considers that disclosure could reasonably be expected to harm the interests

of the municipality; of the Community Charter, Council move In-Camera.

CARRIED UNANIMOUSLY

Council moved In-Camera at 5:13 p.m. Councillor Wallace Richmond left the meeting at 5:13 p.m. Council returned to Regular Session at 5:45 p.m.

21. ADJOURNMENT

0269-2023 Moved: Councillor Flynn

Seconded: Councillor Cannon

THAT: the Regular Council Meeting of May 23, 2023 be adjourned.

CARRIED UNANIMOUSLY

The meeting adjourned at 5:45 p.m.

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City of Salmon Arm Regular Council Meeting of May 23, 2023

Page 8

CERTIFIED CORRECT:
CORPORATE OFFICER
MAYOR

Adopted by Council the day of June, 2023.

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Item 6.2

CITY OF SALMON ARM

Date: June 12, 2023

Moved: Councillor Gonella

Seconded: Councillor Flynn

THAT: the Special Council Meeting Minutes of June 1, 2023, be adopted as circulated.

SPECIAL COUNCIL

Minutes of a Special Meeting of Council of the City of Salmon Arm held in the Council Chambers of City Hall 500 – 2 Avenue NE and by electronic means, at 8:00 a.m. on Thursday, June 1, 2023.

PRESENT:

Mayor A. Harrison

Councillor T. Lavery (participated remotely)

Councillor S. Lindgren Councillor K. Flynn

Councillor D. Gonella (participated remotely)

Councillor D. Cannon

Councillor L. Wallace Richmond

Chief Administration Officer E. Jackson Director of Corporate Services S. Wood Director of Engineering & Public Works R. Niewenhuizen Director of Planning & Community Services. G. Buxton

ABSENT:

1. CALL TO ORDER

Mayor Harrison called the meeting to order at 8:00 a.m.

3. ACKNOWLEDGEMENT OF TRADITIONAL TERRITORY

Mayor Harrison read the following statement: "We acknowledge that we are gathering here on the traditional territory of the Secwepemc people, with whom we share these lands and where we live and work together."

2. IN-CAMERA SESSION

0270-2023 Moved: Councillor Lindgren

Seconded: Councillor Lavery

THAT: pursuant to Section 90(1)(I) discussions with municipal officers and employees respecting municipal objectives, measures and progress reports for the purposes of preparing an annual report under section 98; of the Community

Charter, Council move In-Camera.

CARRIED UNANIMOUSLY

Council moved In-Camera at 8:02 a.m. Council returned to Regular Session at 1:00 p.m.

MAYOR

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The meeting adjourned at 1:01 p.m.

0271-2023

Moved: Councillor Wallace Richmond

Seconded: Councillor Flynn

THAT: the Special Meeting of Council of June 1, 2023, be adjourned.

CARRIED UNANIMOUSLY
CERTIFIED CORRECT:
CORPORATE OFFICER

Adopted by Council the day of June, 2023.

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Item 7.1

CITY OF SALMON ARM

Date: June 12, 2023

Moved: Councillor Wallace Richmond

Seconded: Councillor Lavery

THAT: the Development and Planning Services Committee Meeting Minutes of June 5, 2023 be received as information.

DEVELOPMENT AND PLANNING SERVICES COMMITTEE

Minutes of a Meeting of the Development and Planning Services Committee of the City of Salmon Arm held in Council Chambers, City Hall, 500 – 2 Avenue NE, Salmon Arm, BC, and by electronic means on Monday, June 5, 2023.

PRESENT:

Mayor A. Harrison

Councillor T. Lavery (participated remotely)

Councillor K. Flynn (left the meeting at 9:25 a.m.)

Councillor D. Cannon

Councillor D. Gonella (participated remotely)

Councillor L. Wallace Richmond

Councillor S. Lindgren

Chief Administration Officer E. Jackson
Director of Engineering & Public Works R. Niewenhuizen
Director of Planning & Community Services G. Buxton
Director of Corporate Services S. Wood
Planner C. Larson
Planner S. Smyrl
Executive Assistant B. Puddifant

ABSENT:

1. CALL TO ORDER

Mayor Harrison called the meeting to order at 8:00 a.m.

2. <u>ACKNOWLEDGEMENT OF TRADITIONAL TERRITORY</u>

Mayor Harrison read the following statement: "We acknowledge that we are gathering here on the traditional territory of the Secwepemc people, with whom we share these lands and where we live and work together".

3. REVIEW OF THE AGENDA

4. DISCLOSURE OF INTEREST

5. REPORTS

1. <u>Development Variance Permit Application No. VP-581 [Vandermeer, R. & M.; 2900 40 Street NE; Servicing requirements</u>

Moved: Councillor Lindgren Seconded: Councillor Cannon

THAT: the Development and Planning Services Committee recommends to Council that Development Variance Permit No. VP-581 be authorized for issuance to vary the Subdivision and Development Servicing Bylaw No. 4163, for the 30 Avenue NE frontage of That Part of the North East ¼ of Section 19 Shown on Plan B4242; Township 20, Range 9, W6M, KDYD, waiving the requirement to upgrade 30 Avenue NE, including road widening and ditching.

M. & R. Vandermeer, the applicants, outlined the application and were available to answer questions from the Committee.

Councillor Lindgren left the meeting at 8:21 a.m. and returned at 8:22 a.m.

Amendment

Moved: Councillor Flynn Seconded: Councillor Cannon

THAT: Development Variance Permit No. VP-581 be authorized for issuance subject to the owner providing the required road dedication (approximately 3.965m).

CARRIED UNANIMOUSLY

Motion as amended:

CARRIED UNANIMOUSLY

2. <u>Development Variance Permit Application No. VP-567 [McLeod, T./Launch Construction Ltd.; 3390 30 Street NE; Servicing requirements]</u>

Moved: Councillor Cannon

Seconded: Councillor Lindgren

THAT: the Development and Planning Services Committee recommends to Council that Development Variance Permit No. VP-567 be authorized for issuance to vary the Subdivision and Development Servicing Bylaw No. 4163, for the frontage of Lot 1, Section 30, Township 20, Range 9, W6M, KDYD, Plan EPP123104 as follows:

- i) waive the installation of a bike lane (including ditching);
- ii) waive the provision of a Statutory Right of Way in favour of the City for the bike lane; and
- iii) waive the installation of one (1) fire hydrant.

T. McLeod, the applicant, outlined the application and was available to answer questions from the Committee.

DEFEATED UNANIMOUSLY

5. REPORTS - continued

2. <u>Development Variance Permit Application No. VP-567 [McLeod, T./Launch Construction Ltd.; 3390 30 Street NE; Servicing requirements] - continued</u>

Moved: Councillor Lavery Seconded: Councillor Flynn

THAT: Development Variance Permit No. VP-567 be authorized for issuance as follows:

- i) waive the installation of a bike lane (including ditching); and
- iii) waive the installation of one (1) fire hydrant.

AND THAT: the owner provide the road dedication for the required off-site works.

CARRIED UNANIMOUSLY

3. <u>Proposed Strata Conversion of a Previously Occupied Building [Brentwell Venture Ltd./Crevier, L.E. & S.; 31 4 Street SE]</u>

Moved: Councillor Wallace Richmond

Seconded: Councillor Gonella

THAT: the Development and Planning Services Committee recommends to Council that pursuant to Section 242 of the *Strata Property Act*, Council approve the strata conversion of the previously occupied building located on Lot 3, Block 1, Section 14, Township 20, Range 10, W6M, KDYD, Plan 936.

CARRIED UNANIMOUSLY

4. Zoning Amendment Application No. ZON-1264 [Brentwell Construction Ltd./Crevier, L. & S.; Text Amendment; Addition to Definitions and to R-5 (High Density Residential Zone)]

Moved: Councillor Cannon

Seconded: Councillor Wallace Richmond

THAT: the Development and Planning Services Committee recommends to Council that a bylaw be prepared for Council's consideration, adoption of which would amend Zoning Bylaw No. 2303 as follows:

- 1) Amend Section 2.2 Definitions Secondary Suite e) and f) to read:
 - e) must be located within a building or portion of a building of residential occupancy; and

5. REPORTS - continued

- 4. Zoning Amendment Application No. ZON-1264 [Brentwell Construction Ltd./Crevier, L. & S.; Text Amendment; Addition to Definitions and to R-5 (High Density Residential Zone)] continued
 - f) must be located within a building or portion of a building where both dwelling units constitute a single real estate entity.
 - 2) Amend the R-5 Zone Section 10.3.13 to add "Secondary Suite" as a permitted accessory use.

AND THAT: final reading of the Bylaw be withheld subject to Ministry of Transportation and Infrastructure approval.

CARRIED UNANIMOUSLY

5. <u>Development Variance Permit Application No. VP-582 [Brentwell Construction Ltd./Crevier, L. & S.; 31 4 Street SE; Off Street Parking requirements] (See Item 5.4 for Staff Report)</u>

Moved: Councillor Lindgren Seconded: Councillor Flynn

THAT: the Development and Planning Services Committee recommends to Council that Development Variance Permit No. 582 be authorized for issuance for Lot 3, Block 1, Section 14, Township 20, Range 10, W6M, KDYD, Plan 936 to vary the provisions of Zoning Bylaw No. 2303 – Appendix 1, Table A1-1 – Multi-Family R-5 & Suite – reduce the number of required off-street parking spaces from five (5) to four (4).

CARRIED UNANIMOUSLY

6. Development Variance Permit Application No. VP-574 [0695662 BC Ltd./Massier, G.; 1631 10 Street SE and 1561, 1581, 1621, 1641, 1661 and 1681 9 Street SE; Servicing requirement

Moved: Councillor Gonella Seconded: Councillor Lavery

THAT: the Development and Planning Services Committee recommends to Council that Development Variance Permit No. VP-574 be authorized for issuance for Lot 2, Section 11, Township 20, Range 10, W6M, KDYD, Plan 1915 Except Plan EPP115809 and Lots 2, 4, 6, 8, 10 & 12, Township 20, Range 10, W6M, KDYD, Plan EPP115809 which will vary the following provisions of Subdivision and Development Servicing Bylaw No. 4163 and Zoning Bylaw No. 2303 as follows:

i. Subdivision and Development Servicing Bylaw No. 4163, Section 4.11.4 –
extend the maximum permitted combined cul-de-sac length from 160
metres in length in Urban Development Areas to 249 metres for the future
8 Avenue SE; and

5. <u>REPORTS - continued</u>

- 6. Development Variance Permit Application No. VP-574 [0695662 BC Ltd./Massier, G.; 1631 10 Street SE and 1561, 1581, 1621, 1641, 1661 and 1681 9 Street SE; Servicing requirement continued
 - ii. Zoning Bylaw No. 2303, Section 4.12.1 (a) Fences and Retaining Walls increase the maximum permitted combined height of a fence in conjunction with a retaining wall from 2m (6.5 feet) to 6m (19.7 feet).
- G. Massier, the agent for the applicant, outlined the application and was available to answer questions from the Committee.

CARRIED UNANIMOUSLY

Councillor Cannon left the meeting at 9:24 a.m. Councillor Flynn left the meeting at 9:25 a.m.

7. Zoning Amendment Application No. ZON-1269 [City of Salmon Arm; Text Amendment; Accessible Parking Regulations]

Moved: Councillor Lindgren Seconded: Councillor Lavery

THAT: the Development and Planning Services Committee recommends to Council that a bylaw be prepared for Council's consideration, amending Zoning Bylaw No. 2303, as follows, by adding:

 To Section 2.0 Definitions, after "Accessory Use" and before "Accommodation Unit", the following:

Accessible Car Space means a car parking space designated for individuals with mobility limitations, who hold a valid accessible parking permit.

Accessible Van Space means a parking space designated for those with mobility issues designed to allow room for people to load or unload a wheelchair, scooter, walker or similar device that is used to transport a person who has limited ability and hold a valid accessible parking permit.

Accessible Parking Stall means either an Accessible Car Space or an Accessible Van Space.

ii) After Section 11 of Appendix I: Off – Street Parking and Loading, the following:

12. <u>Accessible Parking Stalls</u>

- .1 Accessible Car Spaces are a minimum of 5.8m depth x 2.4m width. Accessible Van Spaces are a minimum of 5.8m depth x 3.3m width, with an additional minimum aisle width of 1.5m. The additional aisle may be shared between neighbouring Accessible Van Spaces.
- .2 Accessible Parking Stalls must be:

5. REPORTS - continued

- 7. Zoning Amendment Application No. ZON-1269 [City of Salmon Arm; Text Amendment; Accessible Parking Regulations] continued
 - (a) clearly identified by both paint markings on the parking space and a freestanding Sign in front of the space that is not less than 1.2m above ground measured to the bottom of the Sign and incorporating the international symbol of accessibility for persons with disabilities. Accessible Van Spaces signage shall also include the words "van accessible";
 - (b) treated with a firm and slip-resistant surface;
 - (c) provided with a curb letdown from the shared access aisle to any raised pedestrian sidewalk that provides connectivity to the Building;
 - (d) constructed with a slope not exceeding 2%; and
 - (e) marked with high-colour-contrast diagonal pavement lines on the access aisle
 - .3 Of the required stalls for all permitted uses, the minimum number of Accessible Parking Stalls shall be provided in accordance with the following table:

Total Number of Parking Spaces required	Total Number of Accessible Parking Stalls to be Provided	Accessible Car Spaces to be provided	Accessible Van spaces to be provided
0-5	0	0	0
6-25	1	1	0
26-50	3	2	1
51-100	4	3	1
100+	6	4	2

- .4 Should Accessible Parking Stalls be provided that are in addition to those in Section 12.3 then those Accessible Parking Stalls must be in addition to the required number of parking stalls.
- .5 Parking facilities that are used exclusively for buses, trucks, delivery vehicles, law enforcement vehicles, and vehicular impound are not required to include accessible spaces. However, if such lots are accessed by the public (e.g., impounded vehicle retrieval), one (1) Accessible Parking Stall is to be provided.

Councillor Cannon returned to the meeting at 9:26 a.m.

6. <u>FOR INFORMATION</u>

7. <u>ADJOURNMENT</u>

Moved: Councillor Wallace Richmond

Seconded: Councillor Cannon

THAT: the Development and Planning Services Committee meeting of June 5, 2023

be adjourned.

CARRIED UNANIMOUSLY

The meeting adjourned at 9:32 a.m.	
	Mayor A. Harrison, Chair

Minutes received as information by Council at their Regular Meeting of , 2023.

Item 8.1

CITY OF SALMON ARM

Date: June 12, 2023

CSRD Connect Board Meeting Highlights - May 2023

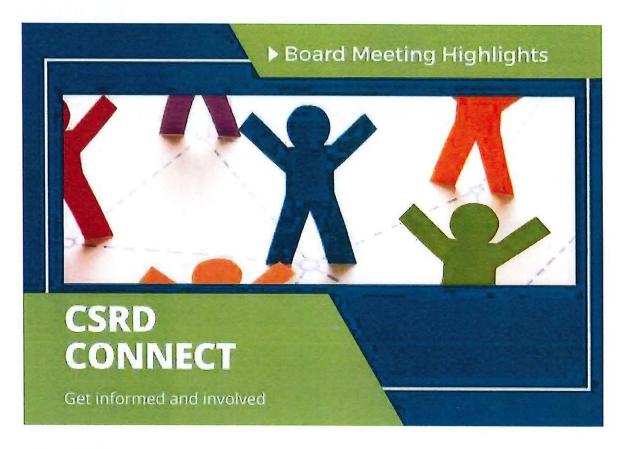
Rhonda West

From: Columbia Shuswap Regional District < listsery@civicplus.com>

Sent: Friday, May 26, 2023 3:04 PM

To: Rhonda West

Subject: [External] CSRD Connect - Board Meeting Highlights - May 2023



May 2023

As part of the shift to our new website, the Columbia Shuswap Regional District is now able to integrate our E-newsletter directly with our website's sign-up function. We'd love to hear feedback about our new format. Please email communications@csrd.bc.ca with any comments or suggestions.

Board on the Road







Electoral Area D

Encompassing Falkland, the Salmon Valley, Ranchero and Deep Creek, Electoral Area D was the chosen area to host the CSRD's Board on the Road events for 2023. The May 18, 2023, regular CSRD meeting took place at the Falkland Community Hall. Directors were also treated to a tour of the area, including stops at local agricultural businesses and the Falkland Museum.

While Board on the Road was previously an annual event rotating between the Electoral Areas, this is the first time the CSRD has been able to host a meeting outside of the main Boardroom in Salmon Arm since the pandemic. The location for the 2024 Board on the Road is still to be determined.

Correspondence

Canada Post Request for support

CSRD Directors were asked to provide support of a postal code change process initiated by Canada Post for the Sorrento, Tappen and Blind Bay areas and planned for October 2023. The Board deferred a decision until after the Canada Post public engagement process, which is scheduled to start in July.

Committee Reports

Electoral Area Directors' Committee

In light of the current challenges with affordable housing, the Board agreed write a letter to the Ministry of Housing regarding concerns with additional costs, administration and colder climate application associated with the BC Energy Step Code legislation and the lack of consultation with local governments.

Business By Area

Glenemma Recreation Site

The Board approved using \$80,000 in reserve funds to cover additional costs required by the Agricultural Land Commission to fence the trailhead area. The Glenemma Rec Site and Trail Proposal calls for the development of a day-use parking lot and staging area which would accommodate non-motorized, motorized and equestrian uses. It would also include a non-motorized trail network, a motorized youth skills development trail, a vault toilet,



picnic tables, hitching posts for horses and garbage and recycling containers. Work on the project will begin this season.



Electoral Area D Community Works Funds

Four community projects in Electoral Area D will be moving ahead after Columbia Shuswap Regional District (CSRD) Directors voted to support the use of <u>Community Works Funds</u> at Thursday's Board on the Road Meeting held in the Falkland Community Hall.

The newly funded projects include:

an ice chiller replacement for the Falkland and District Curling Club for \$160,480, revitalization work for Silver Creek Community Hall for \$220,721, upgrades to the Salmon Valley Senior Citizens Hall for \$86,394, emergency electrical upgrades at the Falkland Museum for \$13,249.

All four items were approved unanimously by Board Directors, with Electoral Area D Director Dean Trumbley recusing himself from the vote on the funding for the Falkland Museum due to a conflict of interest.

Administration Bylaws

Shuswap Watershed Council

The Board is recommending a <u>referendum</u> be conducted on the continued use of a <u>parcel tax</u> to fund the activities of the Shuswap Watershed Council on a permanent basis.

Currently the Shuswap Watershed council is funded through a parcel tax of \$9.07 per property. A parcel tax is a flat rate fee applied to each parcel of land in the proposed service area.



The Shuswap Watershed Council is a non-profit group focused on protecting, maintaining and enhancing water quality and promoting safe recreation in the Shuswap.

Directors voted unanimously in favour of taking the issue to a full assent vote for all eligible voters in Electoral Areas C, D, E, F, and G and the District of Sicamous. The assent vote and its associated bylaws needs final approval from the Provincial Ministry of Municipal Affairs before officially proceeding.

Land Use Matters







Electoral Area G: Cannabis Retail Licence

Copper Island Cannabis Co. has applied to the provincial Liquor and Cannabis Regulation Branch (LCRB) to obtain a licence to operate a non-medical cannabis retail store at 1245 Trans-Canada Highway in Sorrento. These applications can not be approved unless there is a positive recommendation from the local government in the area. The Board unanimously agreed to support the proposal. The final decision on issuing the licence rests with the LCRB.

For information and background reports for the other Development Services items discussed at this meeting, please see the <u>May 18, 2023 Board meeting agenda</u>. If you have questions about a specific application, contact the planning department at plan@csrd.bc.ca

Closed meeting releases

The resolutions released from the May 18, 2023 Board Meeting are as follows:

THAT: in accordance with the provisions of the Solid Waste Management Plan Public and Technical Advisory Committee Terms of Reference,

Laura Baer,

Barry Hunchak,

Jennifer Taylor,

Barbra Fairclough,

Alan Scales

be appointed to serve on the Public and Technical Advisory Committee effective May 18, 2023 and expiring upon completion of the Solid Waste Management Plan Review.

Next Board Meeting

Thursday, June 15, 2023

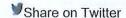
The Regular CSRD Board Meeting will be held in the CSRD Boardroom, at 555 Harbourfront Drive NE, Salmon Arm. The Regular Board meeting public session generally starts at 9:30 AM (PT) / 10:30 AM (MT). Any scheduling changes to the meeting start time will be noted on the Meeting Calendar on the CSRD's website.



The public is encouraged to join the meeting in-person or via **Zoom**. The access link can also be found on the **Meeting Calendar** of the CSRD website under the Board meeting date.

Please note: the CSRD Connect newsletter is not a substitute for the regional district's Board meeting minutes, which cover all agenda items. Minutes are available for public review at the <u>Agendas & Minutes</u> page of our website, <u>www.csrd.bc.ca</u>







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CITY OF SALMON ARM

Date: June 12, 2023

Moved: Councillor

Seconded: Councillor

THAT: the Council of the City of Salmon Arm authorize the use of City lands for the following Special Events Licenses in 2023:

Salmon Arm Folk Music Society (Roots and Blues)
 Location: 471 – 10 Street SW (Fall Fair Grounds)
 Four (4) Alcohol Serving Areas and Hours of Licensed Operation:

Main Beverage Garden and Tasting Lounge	August 18th: 3:00 p.m. to 12:30 a.m.
(patron area)	August 19th: 10:00 a.m. to 12:30 a.m.
<i>'</i>	August 20th: 10:00 a.m. to 12:30 a.m.
Barn Beverage Garden (patron area)	August 18th; 3:00 p.m. to 12:30 a.m.
•	August 19th: 10:00 a.m. to 12:30 a.m.
	August 20th: 10:00 a.m. to 12:30 a.m.
VIP Lounge (private access area)	August 18th: 3:00 p.m. to 12:30 a.m.
,	August 19th: 10:00 a.m. to 12:30 a.m.
	August 20th; 10:00 a.m. to 12:30 a.m.
Volunteer Party (private access area)	August 20th to 21st; 10:00 p.m. to 3:00 a.m.

- Salmon Arm and Shuswap Lake Agricultural Association (Fall Fair)
 Location: 471 10 Street SW (Fall Fair Grounds)
 Hours of Licensed Operation:
 - ➤ September 8th: 11:00 a.m. to 9:00 p.m.
 - > September 9th: 11:00 a.m. to 9:00 p.m.
 - > September 10th: 11:00 a.m. to 4:00 p.m.

SALMONARM

TO:

His Worship Mayor Harrison and Council

DATE:

June 02, 2023

FROM:

Manager of Permits and Licensing

SUBJECT:

Licensing of Special Events on City Property - 2023

MOTION FOR CONSIDERATION:

THAT:

The Council of the City of Salmon Arm authorize the use of City lands for the following Special Events Licenses in 2023:

1. Salmon Arm Folk Music Society (Roots and Blues)

Location: 471 - 10 Street SW (Fall Fair Grounds)

Four (4) Alcohol Serving Area and Hours of Licensed Operation:

- Main Beverage Garden and Tasting Lounge (patron area)
 - o Aug 18h 3pm to 12:30am
 - o Aug 19th 10:00am to 12:30am
 - o Aug 20th 10:00am to 12:30am
- Barn Beverage Garden (patron area)
 - o Aug 18h 3pm to 12:30am
 - o Aug 19th 10:00am to 12:30am
 - o Aug 20th 10:00am to 12:30am
- VIP Lounge (private access area)
 - o Aug 18h 3pm to 12:30am
 - o Aug 19th 10:00am to 12:30am
 - o Aug 20th 10:00am to 12:30am
- Volunteer Party (private access area)
 - o Aug 20th to 21st -10pm to 3:00am
- 2. Salmon Arm and Shuswap Lake Agricultural Association (Fall Fair)

Location: 471 - 10 Street SW (Fall Fair Grounds)

Hours of Licensed Operation

- Sept 8th 11:00am to 9:00pm
- Sept 9th 11:00am to 9:00pm
- Sept 10th 11:00am to 4:00pm

BACKGROUND:

In order to obtain a Special Event Permit from the Liquor and Cannabis Regulation Branch for special events on public land, the event organizers must obtain permission from the Local Government to host such events. A liquor safety plan is required as a condition of obtaining Council approval for the application.

The liquor safety plans for the referenced events have been reviewed and approved by the RCMP. The Manager of Permits and Licensing therefore advises there are no objections from City Staff or the RCMP for the use of City Lands for the Special Events as set out in the Motion for Consideration.

Respectfully submitted,

Prepared By:

Maurice Roy, RBO/CRBO Manager of Permits & Licensing

MR:mr

Reviewed By:

Gary Buxton

Director of Planning & Community Services

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Item 9.2

CITY OF SALMON ARM

Date: June 12, 2023

Moved: Councillor

Seconded: Councillor

THAT: City staff be authorized to submit a grant application to the UBCM Complete Communities 2023/2024 Program up to an amount of \$150,000.00;

AND THAT: the 2023 budget contained in the 2023-2027 Financial Plan Bylaw be amended to reflect a Complete Communities Assessment in the amount of \$150,000, funded from a UBCM Complete Communities Grant.



To:

His Worship Mayor Harrison and Council

Date:

May 24, 2023

Subject:

UBCM Communities Grant Program

MOTION FOR CONSIDERATION:

THAT:

City staff be authorized to submit a grant application to the UBCM Complete

Communities 2023/2024 Program up to an amount of \$150,000;

AND THAT:

the 2023 budget contained in the 2023 - 2027 Financial Plan Bylaw be amended to

reflect a Complete Communities Assessment in the amount of \$150,000, funded

from a UBCM Complete Communities Grant.

BACKGROUND:

The UBCM Complete Communities program supports communities in undertaking assessments to inform land use decision-making, considering housing need, supply, and location; providing transportation options including increased walkability; and making connections to infrastructure investment and servicing decisions.

"Complete Communities" is a broad concept and can be defined in several different ways. For the purposes of the program, complete communities are areas within a community – which provide a diversity of housing to meet identified community needs and accommodate people at all stages of life, and provide a wider range of employment opportunities, amenities, and services within a 15-20 minute walk. (More complete details are available at:

https://www2.gov.bc.ca/assets/gov/housing-and-tenancy/tools-for-government/publications/complete-communities-guide.pdf)

Many of the principles associated with Complete Communities are common with those of "Smart Growth," and consistent with the growth management policies contained in Section 4.4 of the Official Community Plan (OCP).

Staff propose making a grant application to the maximum permitted (\$150,000) to UBCM, seeking to engage a consultant to perform a Complete Communities assessment of the "Residential High Density" area identified south of the "Commercial City Centre" area in the OCP. The intent would be to inform policy in the upcoming OCP review for the "Residential High Density" area, and what would be the transportation, land use and infrastructure implications of building out that area as anticipated.

Garty Buxton

Director of Planning & Community Services

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Item 9.3

CITY OF SALMON ARM

Date: June 12, 2023

Moved: Councillor

Seconded: Councillor

THAT: Council accept the Project Charter for the Official Community Plan review identified as Attachment #1 to the staff report dated June 2, 2023;

AND THAT: Council direct the issuance of a RFP for Official Community Plan public engagement services.

CITY OF SALMONARM

To:

His Worship Mayor Harrison and Council

Date:

June 2, 2023

Subject:

Official Community Plan Bylaw No. 4000 Review

MOTION FOR CONSIDERATON:

THAT:

Council accept the Project Charter for the OCP review presented by Planning

Department staff on June 12, 2023; and

AND THAT: Council direct the issuance of a RFP for OCP public engagement services.

BACKGROUND:

The City's Official Community Plan (OCP) (Bylaw No. 4000) was adopted by Council on November 14, 2011, and is now approaching 12 years old. As the City's overall document to manage change in the community, and to guide the future growth and future decision making, it is essential that the plan remains current and relevant to the conditions and circumstances in which it is used. Given the level of growth and change in the community over the last dozen years, it is therefore an appropriate time to consider a review of the OCP, and the City's Corporate and Strategic Plan (2022) recognized this and directed that a review be undertaken as a short term priority (2022-2024).

In follow up to the initial OCP review outline provided to Council on May 8, the following is attached for Council review and approval:

- 1. Project Charter (detailed project plan)
- 2. OCP Gantt Chart (detailed schedule of activities)
- 3. Draft RFP for Public Engagement Program
- 4. Draft Terms of Reference for OCP Steering Committee

Project Charter

This document provides a more detailed outline of the plan to complete the OCP review (the Project). The plan proposes that the engagement process be undertaken using a consultant (further direction is provided in the RFP document), while staff will undertake policy drafting. At present the Project budget is \$200,000 (including staff backfill expenses). Once the RFP process is complete, staff will report back with any additional budget requirements, that could be addressed through the 2024 budget.

The Charter identifies assumptions being made, risks to the Project, and any mitigations that are possible to manage the identified risks. The highest risks remain around resources, budgets and the timeline.

The Charter also identifies a series of timeline milestones against which progress can be evaluated to determine if the Project is on schedule and making progress. A more detailed outline of the tasks that make up the milestones is provided in the OCP Gantt Chart. These tasks may shift as the Project moves forward. Early milestones relate to the issuance and processing of the RFP and the identification of major issues to address, both by Council at a workshop, and the community through an online survey instrument.

Finally the Charter identifies clear roles and responsibilities for the participants (Council, Staff, Consultants, Steering Committee) in the Project.

RFP for Public Engagement Program

This document outlines a request to consultants to provide proposals regarding the public engagement program, and what the Project requires in this respect (Part B, Sections 2, 3 and 4).

The RFP outlines that the City is seeking a consultant with demonstrable experience in the design and implementation of a broad and equitable community engagement program. The RFP indicates that the primary consulting services should be accommodated in a budget of \$125,000 (leaving \$75,000 of the budget for staff backfill expenses), and to provide details of a supplementary engagement program that they consider as activities and processes that would enhance the primary program. Once the RFP submissions are received, the City can determine if the primary consulting services are adequate to meet the needs of the City, and what if any, of the supplementary program the City would like to engage. At this point, the City will be in a position to determine if the current \$200,000 budget is adequate or if additions are needed.

The consultant is asked to develop a public engagement process that is targeted and focused in its approach, and include a wide variety of strategies and methods to involve key stakeholder groups, to seek out feedback from harder to reach voices, to design a program that "meets people where they are at," and makes engagement with the program as simple and convenient as possible for the community.

The RFP deliverables include:

- The design of a public consultation program
- The effective implementation of the approved program
- Interim reports on results and effectiveness
- Presentation of interim reports to Steering Committee
- Presentation of an engagement summary report to Council
- Document design and production of the OCP
- Production of all mapping related to the OCP

The RFP will be reviewed by a sub-committee of the Mayor, a member of Council and staff, who will make a recommendation that will be ratified by Council prior to a contract being prepared with the consultant. It is anticipated that the RFP will process conclude in Q3 2023, and the contract will be awarded to the Proponent in Q4 2023. The anticipated conclusion of the Project is Q1 2025.

OCP Steering Committee (OCP-SC) Terms of Reference

The terms of reference outlines the purpose, operations and membership of a committee to assist with the public engagement process. The purpose of the OCP-SC is to support and assist Council

to ensure that the revised OCP document is reflective of and connected to the public input received as part of the public engagement. It will act as intermediary between Planning Department staff and the engagement consultants, to both continuously evaluate the effectiveness of the engagement process and to determine if outputs (draft policy) are connected to inputs (public comments).

The OCP-SC will work with City staff and the public engagement consultant on tasks including:

- Assisting in the development of the engagement plan
- · Approving the engagement plan
- Monitoring the effectiveness of the engagement plan
- Making recommendations to the consultant
- Sharing information on the engagement plan and encouraging public participation
- Sharing draft plan content with their respective constituencies or networks
- Providing guidance to staff in the drafting of OCP policy

The OCP-SC is not intended to function as a method to provide input into the content of the new OCP, and is not formulated as a "content creation" committee directing the preparation of draft policy (which could significantly limit the range of public input). It is instead to ensure that the resulting policy drafts created by staff are connected to the input that arrives through the engagement program.

Membership of the OCP-SC would consist of sixteen (16) members:

- One (1) member of Council
- One (1) member from SA Economic Development Society
- One (1) member from Interior Health
- One (1) member from Shuswap Trail Alliance
- One (1) member from Shuswap Recreation Society
- One (1) member from Shuswap Family Resource and Referral Society
- One (1) member from Downtown Salmon Arm
- One (1) member from Shuswap Association for Community Living
- One (1) member from Salmon Arm and Shuswap Agricultural Association
- One (1) member from SCIP Shuswap Construction Industry Professionals or Realtor
- Six (6) Citizens-at-large

Staff would actively recruit the members of the OCP-SC, by reaching out to the above noted agencies and advertise for the citizens-at-large members.

Staff are seeking Council acceptance of the Charter and related documents to allow the OCP review process to actively start.

Gary Buxton

Director of Planning & Community Services

Attachment #1



OFFICIAL COMMUNITY PLAN (OCP) BYLAW 4000 REVIEW

PROJECT CHARTER

VERSION 1.1

10/29/2023

REVISION HISTORY				
Date:	Version	Description	Author	
10/05/20233	1.0	Initial Draft	GB	
10/29/2023	1.1	Internal Review	GB	

DISTRIBUTION LIST			
Name:	Role:	Date of distribution:	
Gary Buxton	Project Manager		
Melinda Smyrl	Project Coordinator		
Chris Larsen	Project Coordinator		
Consultant - TBD	Engagement Lead		

APPROVALS		
Date	Approval Notes:	

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PURPOSE

A comprehensive review and rewrite of the City of Salmon Arm Official Community Plan (OCP).

The current OCP dates to November 2011, and is now approaching 12 years old. The OCP is the City's principal tool to manage change in the community, and to guide the future growth and future decision making. It is essential that the plan remains current and relevant to the conditions and circumstances in which it is used.

Given the level of growth and change in the community since the OCP was approved, it is necessary to undertake a review of the OCP, so that it addresses issues, trends, patterns and concerns that are relevant to the current community. Significant changes affecting the community since 2011 include:

- Climate change and greenhouse gas emissions
- Significant infrastructure planning and upgrades in the community
- Shifting transportation options
- Changing housing and housing related costs
- Changing commercial and retail related patterns

It is essential that policy guidance contained in the OCP addresses these changes and provides direction that is both current and relevant, and addresses any policy gaps that have emerged since 2011.

OBJECTIVES AND SUCCESS CRITERIA

The review and rewrite of the OCP (the Project) is identified in the City's Corporate and Strategic Plan (2022), and directed that a review be undertaken as a short term priority (2022-2024).

Overall success would be defined as the completion of a comprehensive community planning document within a two (2) year time period from the start of activities. This would then provide ongoing guidance for Council decision making for the next 5-7 years (assuming that significant unanticipated changes in the community do not appear).

Secondary success criteria would be:

- Identification of data gaps and the determination of how to address those gaps
- Completion of a successful comprehensive public engagement program (measured by survey of participants and the community)
- Successful recruitment and successful operation of a project Steering Committee.

REQUIREMENTS

Adequate budget and staffing resources are required to undertake the Project. Financial resources are required to be able to engage contracted services to perform the public engagement. With only 3 technical and 1 administrative staff position in the Planning Department, it is not possible to undertake effective public engagement without significant degradation of service levels for day to day departmental functions (e.g. various permit review processes).

Some form of "backfilling" role in terms of an additional staff position is required to free up time on the part of current Planning Department staff (Project Coordinators) to perform the function of policy writing. In the absence of additional resources (subject to Council review and approval), there is the risk of project delays or degradation of service levels for day to day departmental functions.

Filling the backfill role will not be required until 2024. A decision on how to fill this role will not be made until the RFP process has concluded and the budget requirements are clearly understood for 2024.

A competent contractor will be required to be engaged to both design and undertake a robust public engagement plan. Consultants have specific expertise in the area of public engagement that will be more effective both in terms of design and implementation of such programs than if the work is performed by staff.

The details and objectives of the public engagement program will be provided in the Request for Proposals document created to identify the appropriate contractor.

PROJECT ASSUMPTIONS AND/OR CONSTRAINTS

At present the project budget is \$200,000. It is assumed at this point that until otherwise identified that this will be adequate to achieve the desired objective(s).

Once the public engagement RFP process has concluded, the City will have more information on the amount required to perform this part of the process. The amount remaining in the budget once public engagement costs have been removed, will indicate the ability to then fund any "backfill" role in the Planning Department. At that point in time, if funds are inadequate to provide both public engagement and backfill services, then a decision will need to be made on whether to increase the overall Project budget in 2024/2025, or to make adjustments to the Project timeline. The backfill role will not be required until 2024. Continued need for the backfill role in 2025 will be determined by the Project schedule through 2023 and 2024.

It is assumed that staff have both the capacity and ability to perform the required tasks. Staff capacity will be somewhat contingent on the backfill role. All current staff in the Planning Department have experience in both public engagement activities and drafting of policy documents.

It is assumed that through the RFP, that a competent consultant can be engaged to undertake the public engagement portion of the Project.

PRELIMINARY RISK STATEMENT

The following initial Project risks are identified, along with potential mitigation options:

Risk:	Likelihood:	Impact:	Potential Mitigation(s):
Inadequate budget	Moderate	Significant	RFP management and review. Adjustment of budget for 2024 and 2025 by Council as needed or desired. Adjusted (slowed) Project schedule.
Inadequate staff backfill resources Either through inadequate budget or inability to recruit	Moderate to High	Significant	Expanded / enhanced recruitment program. Consider consultant services as an option to a staff position. Adjusted (slowed) Project schedule. Adjusted service levels (slower) in the Planning Department.

Inability to source consulting services	Low	Significant	Adjustment of budget for 2024 and 2025 by Council as needed or desired.
	· ·		Adjusted (slowed) Project schedule.
			Reissue an amended RFP.
Unanticipated / significant public issues or concerns	Low	Moderate	Early identification of public concerns. Adjusted (slowed) Project schedule.
Timeline extended / milestones unmet	High	Moderate	Adjustment of budget for 2024 and 2025 by Council as needed or desired.

SUMMARY MILESTONE SCHEDULE

The following outlines a basic Project outline. A more detailed Project schedule is contained in Appendix 1.

Project Milestone	Forecast Date
Project Charter approval (Council)	July 2023
Public engagement RFP	August 2023
Council workshop on issue identification	August 2023
Close RFP process and select consultant	September 2023
Identification of data needs and gaps	September 2023
Community survey on issue identification	Sept. – Oct. 2023
Detailed engagement process design	October 2023
Initial contacts with critical stakeholders	October 2023
Start Steering Committee recruitment	October 2023
Approval of engagement process	November 2023
Appoint Steering Committee	December 2023
Initial Steering Committee meeting	January 2024
Review / approve engagement plan	January 2024
Commence public engagement program	January 2024
Public engagement process details	Jan Nov. 2024
Conclude public engagement program	November 2024
Initial draft document	September 2024
Review / revisions to draft document	Oct Nov. 2024

Draft bylaw ready for review	January 2025
Statutory hearing process	Feb. – Mar. 2025
Bylaw adoption / Project conclusion	Mar. – Apr. 2025

SUMMARY ESTIMATED BUDGET

The current budget for the Project is \$200,000. It will be funded through a provisional reserve fund that the City has created in recent years, and / or any other funds that Council should choose to direct to the Project. This forecasted amount will be adjusted once the public engagement RFP process has closed, to derive a more precise budget.

Rough Order of Magnitude (ROM) Item	ROM Estimate (TBD)	
Public Consultation	\$ TBD	
Internal Backfill Staffing Resources	\$ TBD	
Miscellaneous (design, printing, materials, meeting logistics, communications)	\$ TBD	
Total Budget Estimate	\$200,000	

PROJECT GOVERNANCE REQUIREMENTS

Council will have decision making responsibility for review and approval of the resulting OCP document.

Council retains all control of the Project budget and Project scope.

The Project Manager will be accountable for overall Project management and any expenses.

A sub committee of the Mayor, a councillor, the CAO, the Project Manager and the Project Coordinators will review any RFP submissions and make a recommendation to Council on the preferred consultant.

Council will confirm the recommendation on the preferred consultant for public engagement.

The Steering Committee will be responsible for making recommendations to the public engagement consultant on planned activities.

The Steering Committee will be responsible for approving any public engagement plan.

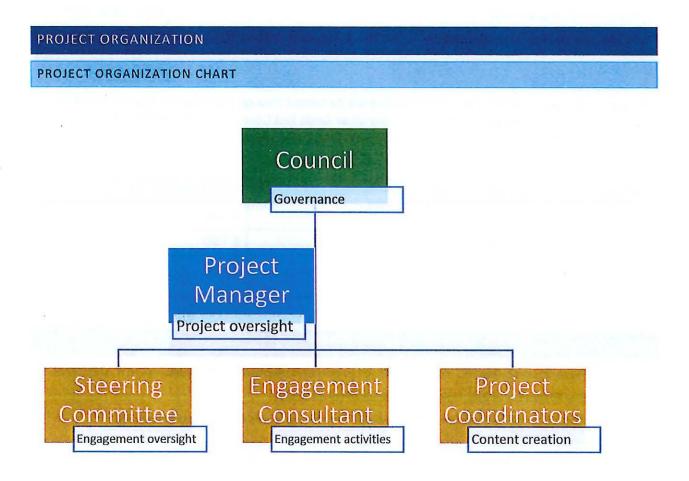
The Steering Committee will be responsible for making recommendations to the Project Coordinators with respect to drafting the resulting OCP document.

PROJECT MANAGER RESPONSIBILITIES

The Project Manager will be responsible for overall management of the Project, including:

- Budget oversight
- Status updates to Council
- Making scope change recommendations to Council
- Oversight and amendments to this plan
- Direction and delegation to staff
- Communication and direction to the public engagement consultant
- Liaison with the Steering Committee
- Ensuring timely and successful completion of the project

· Recommendations for taking any corrective action.



ROLES AND RESPONSIBILITIES

	Council	Project Manager	Steering Committee	Project Coordinators	Engagement Consultant
TASK					
Project Planning	С	R	С	С	1
RFP Process	С	R		С	
Issue Identification	R	Α	Ţ	С	I
Gap Identification	Α	С	1	R	1
Steering Committee appointment	А	R		С	
Engagement Planning	1	С	А	С	R
Engagement Activities	1-	С	А	С	R
Document Crafting		A	С	R	С

Responsible - the person who will actually complete the task.

Accountable - the role or person who is ultimately held accountable for the activity.

Consulted - the person who can assist with the completion of the task, but is not the 'doer'.

Informed - the person or people who need to be informed about the progress or completion of the task.

APPENDICES

APPENDIX 1

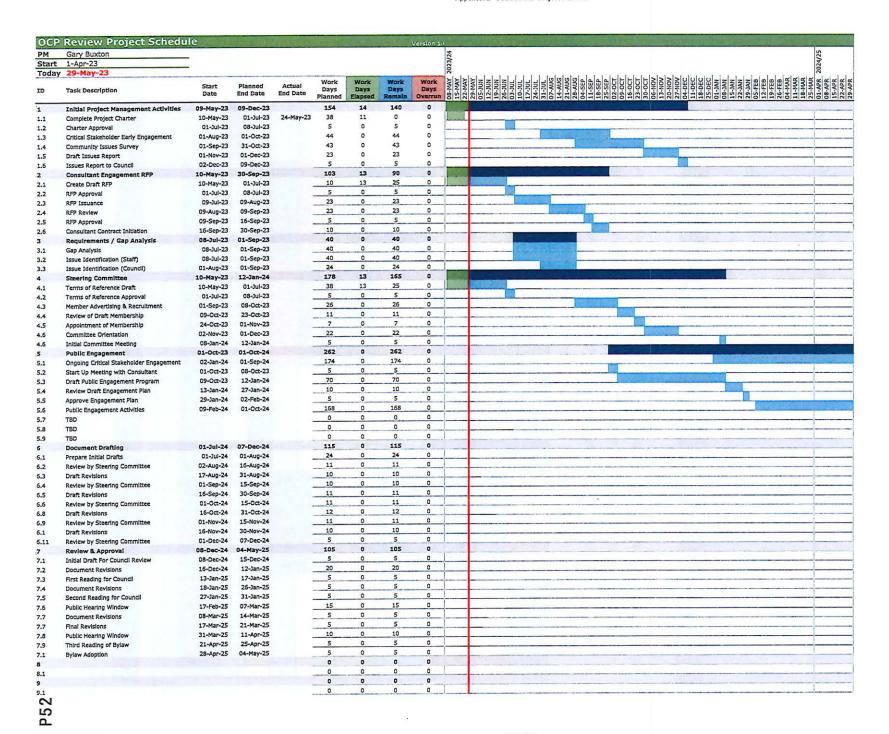
Detailed Project Schedule

APPENDIX 2

OCP Public Engagement RFP (draft)

APPENDIX 3

Steering Committee Terms of Reference



Official Community Plan (OCP) Bylaw 4000 Review and Rewrite Steering Committee Terms of Reference OCP-SC

Purpose:

The purpose of the Official Community Plan Steering Committee (OCP-SC) is to support and assist Council to ensure that the revised OCP document is reflective of and connected to the public input received as part of the engagement process.

Mandate:

The OCP-SC will act as intermediary between Planning Department staff and the engagement consultants, to both continuously evaluate the effectiveness of the engagement process and to determine if outputs (draft policy) are connected to inputs (public comments).

The OCP-SC will work with City staff and the public engagement consultant as part of the OCP review process, including:

- Assisting in the development of the OCP engagement plan
- Approving the OCP engagement plan
- Monitoring the effectiveness of the OCP engagement plan
- · Making recommendations to the consultant on amendments to the engagement plan
- Sharing information on the engagement plan and encouraging public participation with their respective constituencies or networks
- Sharing draft plan content with their respective constituencies or networks
- Providing guidance to staff in the drafting of OCP policy in accordance with the public input received

The OCP-SC is not intended to function as a method to provide input into the content in the review of the OCP, and is not formulated as a "content creation" committee directing the preparation of draft policy (which could significantly limit the range of public input). It is instead to ensure that the resulting policy drafts created by staff are connected to the input that arrives through the engagement program.

Meetings:

The OCP-SC will meet as is necessary. A regular schedule of meetings will be established at the first meeting of the OCP-SC. Special meetings may be held at the call of the Chair. There will be more frequent meetings initially as the OCP-SC forms and the engagement plan is reviewed.

Procedures:

The meeting rules and procedures will be in accordance with the Council Procedure Bylaw. Minutes will be kept and shared with Council as they are produced. Minutes will not identify individuals but will record discussions among the group generally.

The OCP-SC will select a chairperson from its' members at the initial meeting.

Membership:

OCP-SC members will be appointed by Council. To the extent possible, the OCP-SC will have a diverse membership with respect to gender, age and socio-economic and cultural background, and will consist of **sixteen (16)** members with experience and interest in community growth and development and managing and guiding change in the community.

Membership:

- One (1) member of Council
- One (1) member from SA Economic Development Society
- One (1) member from Interior Health
- One (1) member from Shuswap Trail Alliance
- One (1) member from Shuswap Recreation Society
- One (1) member from Shuswap Family Center
- One (1) member from Downtown Salmon Arm
- One (1) member from Shuswap Association for Community Living
- One (1) member from Salmon Arm and Shuswap Agricultural Association
- One (1) member from SCIP Shuswap Construction Industry Professionals or Realtor
- Six (6) Citizens-At-Large.

The identified organizations or community sectors will be notified by staff and asked to nominate a representative and submit written requests from their membership proposing the appointment. They will also identify an alternate who will attend in the absence of the appointed member.

There will be a public call for Citizens-At-Large members. Council will appoint Citizen-At-Large members after reviewing the submitted applications. Citizen-At-Large members will be recruited on the basis of the member's interest in overall community development and not on the basis of representation of any specific group or issue of interest (although membership in an organization or group does not preclude participation in an "at-large" manner).

Members will serve for the duration of the OCP review project. If a member from an organization or community sectors resigns, then the alternate shall join the OCP-SC, or the organization may nominate a new representative. Citizen-At –Large members may be replaced by Council using the methods for initial recruitment. The decision to replace a resign member will consider the time remaining in the OCP review project.

Council may remove a member of the OCP-SC and reappoint accordingly. Grounds for removal include behaviour that is not consistent with the Committee Code of Conduct Policy.

Quorum:

Quorum will be constituted by nine (9) or more members of the OCP-SC.

Decision Making:

The OCP-SC will undertake the majority of its' decision making by seeking to achieve consensus, where almost all elements of the decision are unanimously agreed to, but there may be less important elements that are not.

When consensus is not possible, the OCP-SC will seek agreement amongst the group, where most of the elements of the decision are acceptable, when other less important elements may not be acceptable.

When agreement is not possible, then the OCP-SC may use majority voting of members to reach a decision.

Decisions of the group will be made as a group, and will not be assigned or credited to any individual on the OCP-SC. At any point, a member of the group may ask that their dissenting opinion to any decision be recorded, and it will be duly recorded.

Staff Support:

The Planning Department will provide the required professional, secretarial and administrative support. Other City staff will attend as is necessary.

The OCP-SC chairperson or the OCP Project Manager may request the attendance of subject matter experts or other members of the public that are not members of the OCP-SC to attend to provide information to the Committee.

Neither staff or members of the public attending an OCP-SC will have a vote in any decision made by the OCP-SC. Members of the public attending may address the OCP-SC only with the approval of the OCP-SC chairperson, upon request.

Review of Terms of Reference:

Council will review these Terms of Reference as is necessary.



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Item 9.4

CITY OF SALMON ARM

Date: June 12, 2023

Moved: Councillor

Seconded: Councillor

THAT: the Mayor and Corporate Officer be authorized to execute the 2023/2024 Annual Operating Agreement for Transit Services between the City of Salmon Arm and BC Transit.



File: 8500-Transit AOA

TO:

His Worship Mayor Harrison and Members of Council

FROM:

Robert Niewenhuizen, Director of Engineering and Public Works

DATE:

June 2, 2023

SUBJECT:

ANNUAL TRANSIT OPERATING AGREEMENT

RECOMMENDATION:

THAT:

The Mayor and Corporate Officer be authorized to execute the 2023/2024

Annual Operating Agreement for Transit Services between the City of Salmon Arm

and BC Transit.

BACKGROUND:

BC Transit has forwarded the 2023/2024 Draft Annual Operating Agreement (AOA) for the Shuswap Regional Transit system for approval.

The agreement is based on the Transit Service Agreement which is the principal overarching service agreement. Each year, the AOA confirms the budgeted service levels, revenue projections and cost structure for the transit system.

BC Transit continues to focus on building back transit ridership to pre-pandemic levels and supporting community's across BC through their ongoing recovery. As of January 2023, total ridership has recovered to more than 90 per cent compared to 2019-2020 levels. BC Transit is anticipating further economic uncertainty in the months and years ahead, the \$150.6 million operating grant announced by the Province in the recently tabled provincial budget will enable BC Transit to maintain existing service levels for 2023-24. It is anticipated that BC Transit will continue to face challenges with fuel price volatility and a higher price per litre is reflected in the operating budget for the Shuswap Transit system. As previously advised, BC Transit has reverted back to billing based on actual expenditures instead of budget and the City is therefore responsible for managing price volatility within its own reserve.

At the end of March 2022 the City received an additional COVID Safe Restart and Recovery Contribution equal to \$41,448. The City has the benefit of utilizing this funding stream to offset any reduced revenues and municipal share of operating costs. Given the timing of the announcement in 2022, BC Transit was unable to incorporate the additional funding into the 2022/2023 AOA. However staff have requested this funding be applied to the 2023/2024 operating year and the AOA and City's 2023 budgets reflect this.

Staff have reviewed the agreement as presented along with the projected revenues and expenses associated with the 2023/2024 AOA and the City's 2023 Transit Services budgets are sufficient and therefore do not require an amendment at this time.

Respectfully submitted,

Robert Niewenhuizen, AScT

Director of Engineering and Public Works

cc Chelsea Van de Cappelle, CFO

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Item 9.5

CITY OF SALMON ARM

Date: June 12, 2023

Moved: Councillor

Seconded: Councillor

THAT: Council accept the proposal from PetroValue Products Canada Inc. at their quoted unit prices for the Supply of Bulk Aviation Fuels and Related Delivery Services for a term of three (3) years commencing July 1, 2023.



File: 8400.00

TO:

His Worship Mayor Harrison and Members of Council

FROM:

Robert Niewenhuizen, Director of Engineering and Public Works

PREPARED BY:

Darin Gerow, Manager of Roads & Parks

DATE:

June 2, 2023

SUBJECT:

SUPPLY OF BULK AVIATION FUELS AND RELATED DELIVERY SERVICES

STAFF RECOMMENDATION

THAT:

Council accept the proposal from PetroValue Products Canada Inc. at their quoted unit prices for the Supply of Bulk Aviation Fuels and Related Delivery Services for a term of three (3) years commencing July 1, 2023

BACKGROUND

The current contract for the Supply of Bulk Aviation Fuels and Related Delivery Services has expired. As such, a Request for Proposal (RFP) was issued and advertised on BC Bid and sent to four (4) suppliers. The RFP closed on Thursday May 18, 2023 at which time only one (1) proposal was received. Staff have reviewed the proposal with conformance with the RFP documents. The cost summary is as follows:

AvGas 100LL

Contractor	Base Mark-up Price	Service and Delivery Charges	Other Charges	Total (before Taxes)
PetroValue Products Canada.	\$0.02	\$0.09	\$0.00	\$0.11

Jet A1

Contractor	Base Mark-up Price	Service and Delivery Charges	Other Charges	Total (before Taxes)
PetroValue Products Canada.	\$0.02	\$0.08	\$0.00	\$0.10

The cost of bulk fuel (rack rate) is highly variable because it is based on crude oil prices and is established by the refineries on a weekly basis. The proposals identified the vendor's mark up prices, service and delivery costs and other charges, which will be added to the rack rate and then invoiced to the City following delivery. The vendor will be required to provide the City with proof of actual per liter bulk aviation fuel costs when the vendor invoices the city.

PetroValues proposal demonstrated a commitment to meeting the fuel supply demands of the Shuswap Regional Airport in a safe and responsive manner. The City has been purchasing fuel

from PetroValue since 2015 and staff have no concerns with awarding the contract to this company again.

Staff are recommending that the contract be awarded to PetroValue Products Canada Inc., in accordance with their proposal for a term of three (3) years, expiring June 30, 2025.

Respectfully submitted,

Robert Niewenhuizen, AScT

Director of Engineering & Public Works

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Item 9.6

CITY OF SALMON ARM

Date: June 12, 2023

Moved: Councillor

Seconded: Councillor

THAT: the 2023 Budget contained in the 2023 – 2027 Financial Plan be amended to reallocate \$23,500.00 additional funding to the Zone 2 Pump Station Design, funded from the 10 Avenue SE (30 – 33 Street SE) Upgrade;

AND THAT: Council approve the award of the Zone 2 Pump Station 100% Design to WSP Canada Inc. for the total estimated price of \$21,049.00 plus taxes as applicable.



File: 2023-43

TO:

His Worship Mayor Harrison and Members of Council

FROM:

Robert Niewenhuizen, Director of Engineering and Public Works

PREPARED BY:

Gabriel Bau, City Engineer

DATE:

June 12, 2023

SUBJECT:

ZONE 2 PUMP STATION DESIGN - BUDGET AMENDMENT

STAFF RECOMMENDATION

THAT:

The 2023 Budget contained in the 2023 to 2027 Financial Plan be amended to reallocate \$23,500.00 additional funding to the Zone 2 Pump Station Design, funded from:

• 10 Avenue SE (30 - 33 St SE) Upgrade

AND THAT:

Council approve the award of the Zone 2 Pump Station 100% Design to WSP Canada Inc., for the total estimated price of \$21,049.00 plus taxes as

applicable.

BACKGROUND

The Zone 2 Pump Station is located in Canoe immediately northeast of the Water Treatment Plant on the lakeside of the CP Rail tracks. This station was put into service in 1970. Reconstruction is necessary to meet current water demands, and reduce risk of flooding and equipment obsolescence.

As of May 2023, WSP has completed the 90% detail design of the Zone 2 pump station. The final 10% design involve getting the water works approval from Interior Health, the building permit from the City, and BC Hydro connection. Once this part of the design is completed, the total cost for construction will be adjusted.

WSP was selected in 2021 as part of a competitive process to provide consulting services regarding the design and construction of the Zone 2 pump station. WSP fee to move the project from 90 to 100% included in their original quote is \$21,049.00. WSP upholds their fee. In order to cover this cost (plus contingency), additional funds are required. Staff recommends to transfer funds from the 10 Avenue SE (30 - 33 St SE) Upgrade project.

10 Avenue SE (30 – 33 St SE) Upgrade project could be retendered this year, subject to available funds. Original approved budget was \$335,000. Council approved to transfer \$80,000 to 8 Ave NE Watermain construction in May 2023, and remaining available budget is \$255,000. Staff budget estimate required to proceed with 10 Avenue SE Upgrade project based on tenders received is approximately \$695,000.

On another note, a separate staff report will be provided to Council to move the project into the construction phase, and staff plans to recommend to proceed with an Alternative Approval Process once the design is completed. The 2023 approved construction budget for the Zone 2

2023 43 ZONE 2 PUMP STATION BUDGET AMENDMENT

Page 2

Pump station is \$4,443,000, \$4,328,000 of which are budgeted to come from long term borrowing. Current cost estimate for the construction of the Zone 2 pump station is \$4,337,960.00 plus construction management and borrowing costs.

STAFF COMMENTS

Staff recommend that the 2023 Budget contained in the 2023 to 2027 Financial Plan be amended to reallocate \$23,500.00 to reflect additional funding to the Zone 2 Pump Station Design project funded as follows:

Current 2023 budget, as approved	\$128,500
10 Avenue SE(30 – 33 St SE) – Est. balance - \$255,000	\$23,500
Total	\$152,000

Staff recommend the award of the remaining detailed design to WSP Canada Inc. as per their proposal submission for the total estimated price of \$21,049.00 plus taxes as applicable.

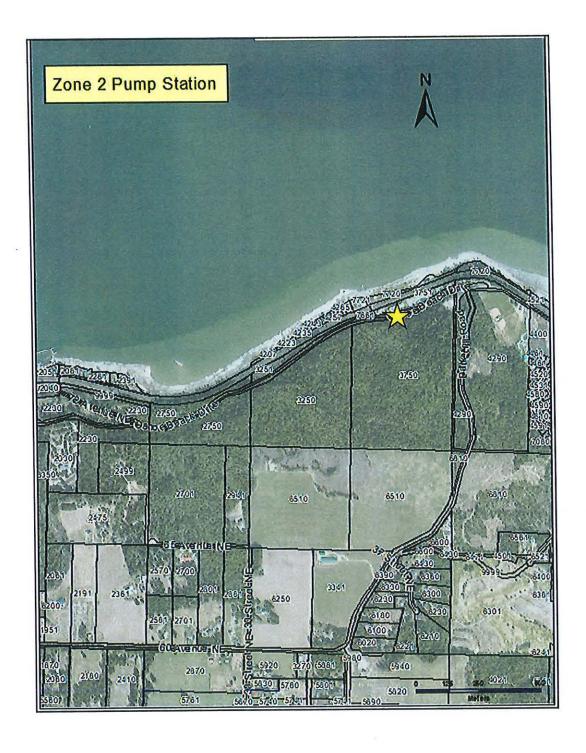
Respectfully submitted,

Robert Niewenhuizen, AScT

Director of Engineering and Public Works

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Appendix A – ZONE 2 PUMP STATION



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Item 9.7

CITY OF SALMON ARM

Date: June 12, 2023

Environmental Advisory Committee Citizen at Large Membership Appointment

SALMONARM

TO:

Mayor Harrison & Members of Council

DATE:

June 5, 2023

FROM:

Erin Jackson, Chief Administrative Officer

PREPARED BY:

Barb Puddifant, Executive Assistant

SUBJECT:

Environmental Advisory Committee - Citizen at Large membership

appointment

Background:

The Environmental Advisory Committee membership currently includes 13 voting members; one (1) Council representative, three (3) Citizens at Large, a member representing each of the Forest and Agricultural Industries, members from five (5) organizations and from the Adams Lake and Neskonlith Bands. The current term of the three Citizen at Large members will expire December 31, 2023.

One of the Committee's three appointed Citizens at Large, Michael Simpson, has stepped down and will not be completing his term. Staff has advertised this position in the newspaper, on the City website, social media and in the lobby of City Hall. Two (2) applications (attached as Appendix A) were received by the June 2, 2023 closing date, from the following individuals:

Sarah Johnson Bob Demulder

It is recommended that Council appoint one Citizen at Large to complete the existing term.

The Committee also has a vacancy for a member from the Agricultural Industry. The application deadline for this position is June 23, 2023.

Respectfully submitted,

Erin ackson

Chief Administrative Officer

Item 10.1

CITY OF SALMON ARM

Date: June 12, 2023

Moved: Councillor

Seconded: Councillor

THAT: the Bylaw entitled City of Salmon Arm Zoning Amendment Bylaw No. 4579 be read a first and second time.

[ZON-1264; Brentwell Construction Ltd./Crevier, L. & S.; 31 4 Street SE; Text Amendment; Addition to Definitions and to R-5 (High Density Residential Zone)]

CITY OF SALMONARM

TO:

His Worship Mayor Harrison and Members of Council

DATE:

May 25, 2023

SUBJECT:

Zoning Bylaw Text Amendment Application No. 1264 **Development Variance Permit Application No. 582**

Legal:

Lot 3, Block 1, Section 14, Township 20, Range 10, W6M KDYD, Plan 936

Civic:

31 - 4 Street SE

Owner/Applicant: Brentwell Construction Ltd, Crevier, L. A. & S. P.

MOTION FOR CONSIDERATION

THAT:

A bylaw be prepared for Council's consideration, adoption of which would amend Zoning Bylaw No. 2303 as follows:

- 1) Amend Section 2.2 Definitions Secondary Suite e) and f) to read:
 - e) must be located within a building or portion of a building of residential occupancy; and
 - f) must be located within a building or portion of a building where both dwelling units constitute a single real estate entity.
- 2) Amend the R-5 Zone Section 10.3.13 to add "Secondary Suite" as a permitted accessory use.

AND THAT:

Final Reading of the Bylaw be withheld subject to Ministry of Transportation and Infrastructure approval.

AND FURTHER THAT: Development Variance Permit No. 582 be authorized for issuance for Lot 3. Block 1, Section 14, Township 20, Range 10, W6M KDYD, Plan 936 to vary provisions of Zoning Bylaw No. 2303 - Appendix 1, Table A1-1 - Multi-Family R-5 & Suite – reduce the number of required off-street parking spaces from five (5) to four (4).

STAFF RECOMMENDATION

THAT:

The motion for consideration be adopted.

PROPOSAL

The purpose of these applications is to amend the Zoning Bylaw to accommodate the development of secondary suites within a duplex, and address on-site parking requirements. The Zoning Bylaw amendments would be applicable to all R-5 Zone parcels, while the variance for parking is isolated to the subject parcel.

BACKGROUND

The subject parcel is located at 31 – 4 Street SE, just south of Fletcher Park (Appendix 1). It is designated High Density Residential (HR) in the City's Official Community Plan (OCP) and zoned R-5 (High Density Residential) in the Zoning Bylaw (Appendix 2 and 3). The parcel is approximately 460 square metres in area, and features a recently developed duplex building (site photos attached as Appendix 4).

The Zoning Map attached shows the mix of zones in the immediate area, predominantly Residential (R-1, R-5 and R-8), with nearby institutional and Commercial zones further to the north, west and east. Land uses adjacent to the subject parcel include the following:

North: Residential land (R-1 Single Family Residential) South: Residential land (R-5 Multi Family Residential)

East: Road (4 Street SE) and P-3 (Institutional) land beyond

West: Residential land (R-1 Single Family Residential)

Section 8.4.46 of the OCP states that *duplex* development that is not part of a multiple family development is exempt from a form and character residential development permit application.

OCP POLICY

Within the OCP, the subject parcel is designated High Density Residential (HR) and is in Residential Development Area A, considered the highest priority for development. The proposed zoning amendment would align with the OCP's Urban Residential Objectives listed in Section 8.2 and the Urban Residential Policies listed in Section 8.3, including providing a variety of housing types, housing options, and supporting compact communities. In terms of siting, the proposal appears aligned with OCP Siting Policies under Section 8.3.19, including good access to transportation routes, recreation, community services, and utility servicing.

Secondary Suites

Policy 8.3.25 of the OCP provides for the consideration of secondary suites in all Residential designated areas via a rezoning application, subject to compliance with the Zoning Bylaw and the BC Building Code.

COMMENTS

Ministry of Transportation & Infrastructure

MOTI has granted preliminary approval (Appendix 5). Final Reading is subject to MOTI approval.

Engineering Department

No Concerns. Recommendation of support for requested parking variance. Servicing information provided to applicant in advance of development (Appendix 6).

Public Consultation

Pursuant to the *Local Government Act*, Zoning Bylaw, and Development Variance Permit Procedures Bylaw notices are mailed to land owners within a 30m radius of the application. The notices outline the proposal and advises those with an interest in the proposal to provide written submission prior to the Hearing and information regarding attending the Hearing. Further to the Zoning Bylaw amendment, newspaper ads are placed in two editions of the local paper in advance of the Statutory Public Hearing. It is expected that the Hearings for these applications will be held on June 26, 2023.

Planning Department

BC Building Code Changes

As per Appendix 7, effective December 2019 the BC Building Code (BCBC) adopted changes to allow for secondary suites in more building types (other than single detached dwellings), providing additional options for land use planning. Examples of building types where the BCBC allows for suites include

townhouse-style developments (including duplexes) where a dwelling and its suite are separated from other parts of the building by a vertical fire separation. The BCBC governs how suites are built and does not allow for the contravention of local land use bylaws. Amending the Zoning Bylaw as proposed below would provide the City with additional housing options.

In order to align with the current BCBC and allow for suites to be an option within the R-5 Zone (and others), Staff propose amendments to the definition of Secondary Suite. The current definition reads as such:

SECONDARY SUITE means a dwelling unit conforming to the Building Regulations of British Columbia which is accessory to the principal dwelling unit and must meet the following criteria:

- a) cannot exceed a maximum floor space of 90 square metres (968.8 square feet);
- b) cannot exceed a maximum of 40% of habitable floor space of the building;
- c) must have a separate entrance;
- d) must be an integral part of the building and have at least one heated wall or floor in common with the principal dwelling unit;
- e) must be located within a building of residential occupancy containing only one other principal dwelling unit; and
- f) must be located in and part of a building which is a single real estate entity.

As the current definition is specific to a suite within a single family dwelling, the proposed changes would allow for suites within additional building types as in bold and underlined below:

SECONDARY SUITE means a dwelling unit conforming to the Building Regulations of British Columbia which is accessory to the principal dwelling unit and must meet the following criteria:

- a) cannot exceed a maximum floor space of 90 square metres (968.8 square feet);
- b) cannot exceed a maximum of 40% of habitable floor space of the single real estate entity;
- c) must have a separate entrance;
- d) must be an integral part of the building and have at least one heated wall or floor in common with the principal dwelling unit or single real estate entity;
- e) must be located within a building or portion of a building of residential occupancy; and
- f) must be located within a building or portion of a building where both dwelling units constitute a single real estate entity.

Staff consider the addition of *secondary suite* as an accessory use in the R-5 Zone to be a positive option, allowing an additional housing type and an alternative for increased density on smaller residential parcels, which would otherwise require some form of consolidation with adjacent parcels in order to achieve a developable minimum parcel area. Given housing market trends and the small lot sizes in the High Density Residential designated city centre area, staff believe it is reasonable to allow for the inclusion of an option for secondary suites within the R-5 Zone, which may not have timely potential for consolidation to larger parcel sizes.

In consideration of the subject parcel, the surrounding neighbourhood has been undergoing slow redevelopment with a mix of old and new single family housing, newer multi-family development, as well as institutional and commercial development. The subject parcel is located in an area well-suited for higher density residential development featuring sidewalks and transit routes, within close walking distance of the City centre. As noted, the Residential — High Density (HD) designation in the City's Official Community Plan (OCP) supports the proposed development scenario, which in the opinion of staff aligns with broad OCP policies.

The proposal also aligns with the strategic themes identified in the Salmon Arm Community Housing Strategy considering density and diversity that fits with the character of the community, and developing opportunities to address rental housing needs. Within the Community Housing Strategy, Duplex, Row House, and Semi-Detached Housing accounted for 18% of dwelling types within Salmon Arm (2016).

The maximum residential density permitted under R-5 zoning is 100 dwelling units per hectare of land. As the subject property is 0.046 hectares in area, the maximum permitted density would be 4 dwelling units assuming: 1) the present gross areas of the subject parcel; and 2) no density bonus. With a density

bonus under R-5 zoning, the maximum density is 130 units per hectare, or 5 units on 0.046 hectares, with a height increase to 15 m. All that being said, the constraints presented by the small parcel area of the subject parcel limits the development potential to less than 5 units.

Table 1 - R-5 Zoning Analysis (0.046 hectare area)

	R-5 Permitted/Required	R-5 with Bonus	Proposed	
Density	4 units	5 units	2 units + 2 Suites	
Height	12 m	15 m	8.8 m	
Parcel Coverage	55 %	70 %	35%	
Setback – front	5 m	5 m	8.8 m	
Setback – interior side	2.4 m - 2.0 m (VP-521)	2.4 m - 2.0 m (VP-521)	2.0 m (VP-521)	
Setback – rear	5 m	5 m	5.6 m	
Parking	5	5/6	4	
Small Car Spaces	20 % (1)	20 % (1)	n/a	

It is important to note that the building on the subject parcel exists and is not under application. The R-5 zoning and interior side parcel line variances from 2.4m to 2m were approved at the pre-development stage in 2020 (ZON-1191 and VP-521). Staff are of the opinion that the proposed development of suites within the existing building should align well with the residential development to the area.

Development Cost Charges

Staff note that consistent with the Development Cost Charge Bylaw, secondary suites within any single real estate entity are exempt from DCCs.

Parking Variance

With respect to parking requirements relative to the proposed development concept, a 2-unit development within the R-5 Zone with 2 secondary suites would be required to provide 5 parking stalls. 4 parking spaces are proposed (Appendix 8). The provision of on-site parking is practical and necessary, as the opportunity for on-street parking at this site is somewhat limited, however staff note public parking options along Okanagan Avenue and feel that the requested reduction is reasonable and manageable at this downtown location.

CONCLUSION

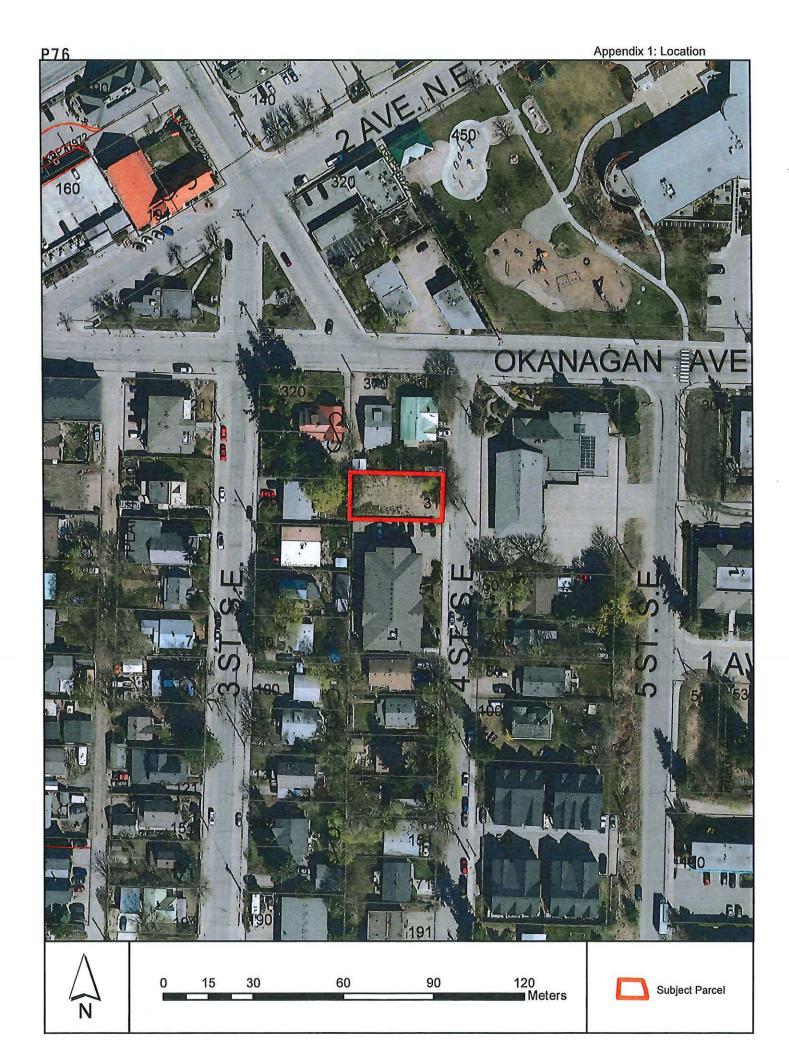
Staff view the proposed Zoning Bylaw amendments as presented to be consistent with OCP residential objectives and policy, as well as the Community Housing Strategy. The additions proposed to the Zoning Bylaw serve to clarify municipal policy, support housing diversity in the city centre area, and provide opportunity for an additional housing format and purpose built rentals supported by updates to the BC Building Code. The proposed Zoning Bylaw amendments and the variance for parking reduction are supported by staff.

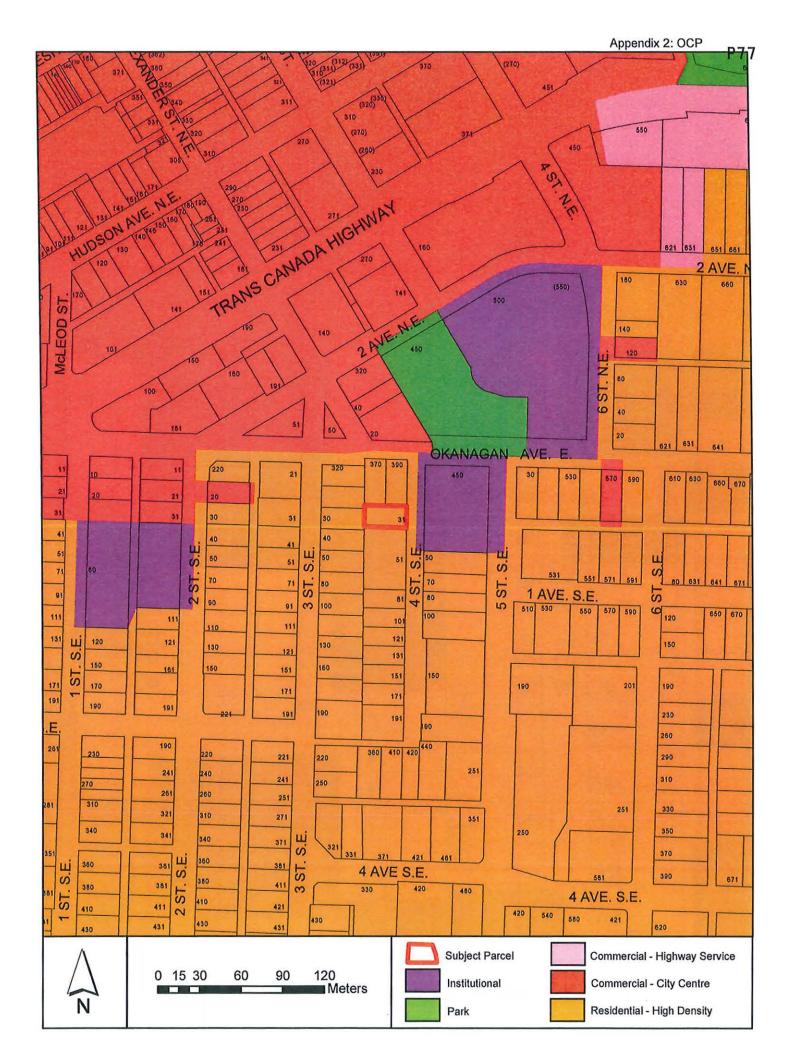
While this proposal relates to the R-5 Zone, if Council wishes to create similar provisions for secondary suites in the R-2 and R-4 Zones, Council could direct Staff to prepare an additional Zoning Bylaw Amendment.

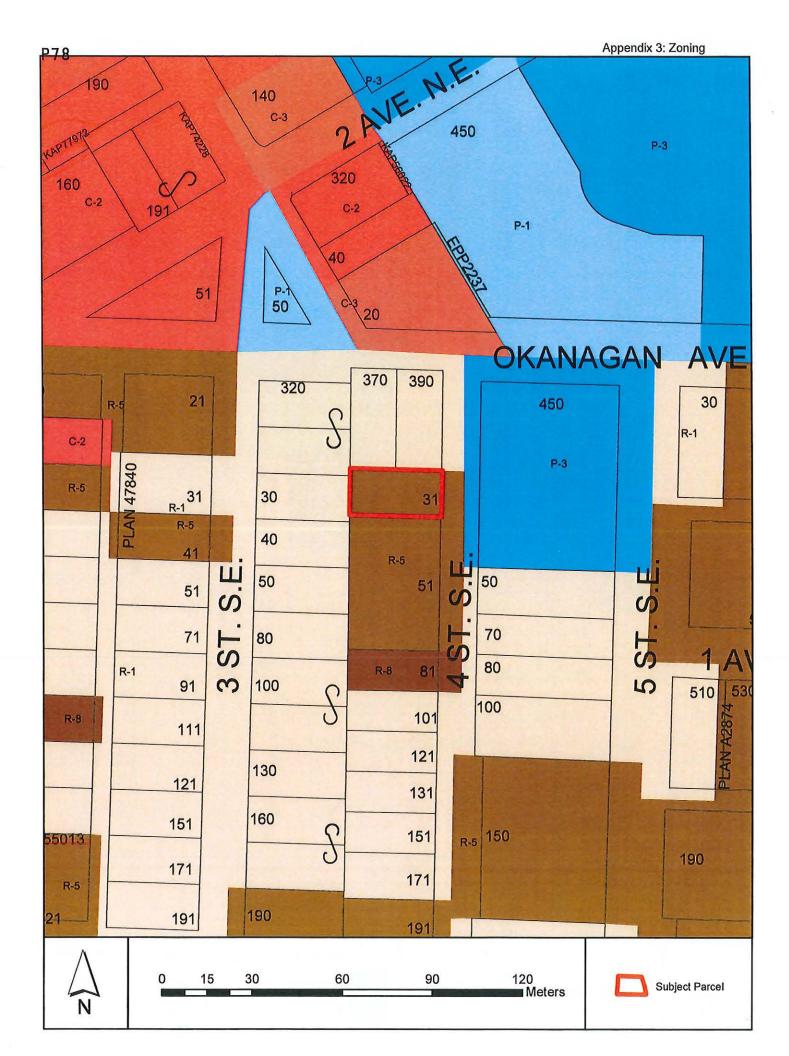
Prepared by: Chris Larson, MCIP, RPP

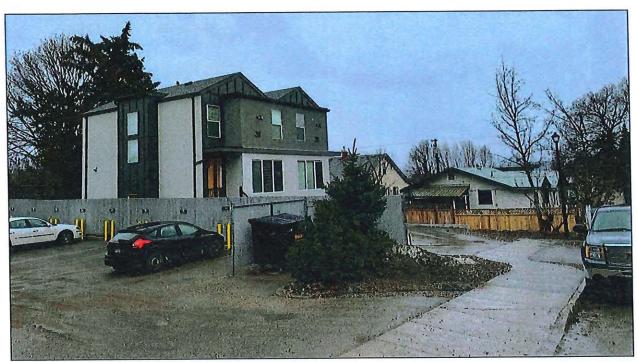
Senior Planner

Reviewed by: Gary Buylon, MCIP, RPP Director of Planning & Community Services

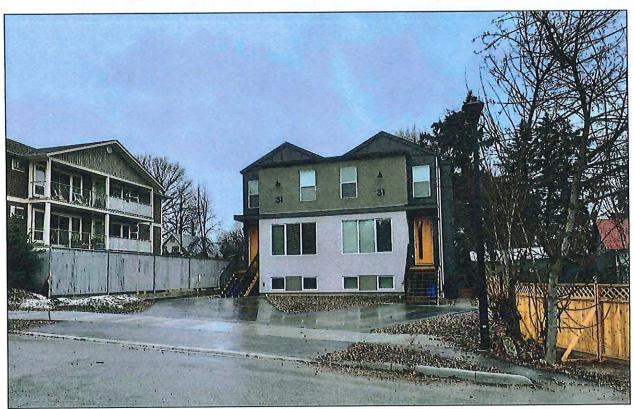








View of subject parcel northwest from 4 Street SE.



View of subject parcel southeast from 4 Street SE.

Your File #: ZON-1264

BL4579

eDAS File #: 2023-01563

Date: Apr/03/2023

City of Salmon Arm 500 2nd Avenue NE PO Box 40 Salmon Arm, BC V1E 4N2 Canada

Re: Proposed Bylaw BL4579 for:

PID 011-894-504, LOT 3 BLOCK 1 SECTION 14 TOWNSHIP 20 RANGE 10 WEST OF THE 6TH MERIDIAN KAMLOOPS DIVISION YALE DISTRICT PLAN 936

Preliminary Approval is granted for the Bylaw Text Amendment for one year pursuant to section 52(3)(a) of the *Transportation Act*.

If you have any questions please feel free to call Beth Bahm at (778) 576-1114. Yours truly,

Gl. Valu.

Beth Bahm Development Officer

Local District Address

Salmon Arm Area Office

Bag 100 850C 16th Street NE Salmon Arm, BC V1E 4S4 Canada

Phone: (250) 712-3660 Fax: (250) 833-3380

SALMONARM

Memorandum from the Engineering and Public Works Department

TO:

Director of Development Services

DATE:

May 18, 2023

PREPARED BY:

Chris Moore, Engineering Assistant

APPLICANT:

Brentwell Ventures Ltd / S. & L. Crevier

SUBJECT:

ZONING AMENDMENT APPLICATION FILE NO. ZON-1264 Bylaw No. 4579

SUBDIVISION (STRATA) APPLICATION FILE NO. SUB-23.02

DEVELOPMENT VARIANCE PERMIT APPLICATION FILE NO. VP-582

LEGAL:

Lot 3, Block 1, Section 14, Township 20, Range 10,

W6M, KDYD, Plan 936

CIVIC:

31 - 4 Street SE

Further to your referral dated March 30, 2023, we provide the following servicing information.

Comments are based on the Subdivision/Development as proposed in the referral. If the development plans for the property change significantly, comments below may change

General:

- 1. Full municipal services are required as noted herein. Owner / Developer to comply fully with the requirements of the Subdivision and Development Services Bylaw No 4163. Notwithstanding the comments contained in this referral, it is the applicant's responsibility to ensure these standards are met.
- Comments provided below reflect the best available information. Detailed engineering data or other information not available at this time, may change the contents of these comments.
- 3. Property under the control and jurisdiction of the municipality shall be reinstated to City satisfaction.
- Owner / Developer will be responsible for all costs incurred by the City of Salmon Arm during construction and inspections. This amount may be required prior to construction.

Roads / Access:

- 4 Street SE, on the subject property's eastern boundary, is designated as an Urban Local Road standard, requiring 20.0m road dedication (10.0m on either side of road centerline). Available records indicate that an additional 2.919m road dedication is required (to be confirmed by a BCLS).
- 2. 4 Street SE is currently constructed to a Local Road standard. No further upgrading is required.
- 3. The applicant is requesting to reduce the number of parking stalls from five to four. 4 Street SE is located in the downtown area, with easy access by foot to many facilities. There are multiple locations on and adjacent to 4 Street where parking is available. Staff do not consider the reduction in onsite parking by one parking stall to be significant and therefore the Engineering Department recommends that the request to reduce the number of parking stalls from five to four be approved.

ZONING AMENDMENT APPLICATION FILE NO. ZON-1264 SUBDIVISION (STRATA) APPLICATION FILE NO. SUB-23.02 VARIANCE PERMIT APPLICATION FILE NO. VP-582 May 18, 2023 Page 2

Water:

- 1. The subject property fronts a 200mm diameter Zone 1 watermain on 4 Street SE. No upgrades will be required at this time.
- 2. Records indicate that the existing property is serviced by a 50mm diameter service from the 200mm diameter watermain on 4 Street SE with one water meter installed in each property. No further upgrades are required.
- 3. The subject property is in an area with sufficient fire flows and pressures according to the 2011 Water Study (OD&K 2012).
- 4. Fire protection requirements to be confirmed with the Building Department and Fire Department.

Sanitary:

- 1. The subject property fronts a 200mm diameter sanitary sewer on 4 Street SE. No upgrades will be required at this time.
- 2. Records indicate that the existing property is serviced by a 100mm service from the sanitary sewer on 4 Street SE. No further upgrades are required.

Drainage:

- 1. The subject property fronts a 250mm diameter storm sewer on 4 Street SE. No upgrades will be required at this time.
- 2. Records indicate that the existing property is serviced by a 150mm service from the sanitary sewer on 4 Street SE. No further upgrades are required.

Chris Moore

Engineering Assistant

Gabriel Bau P.Eng.

City Engineer

Information Bulletin

Building and Safety Standards Branch

PO Box 9844 Stn Prov Govt Victoria BC V8W 9T2

Email: <u>building.safety@gov.bc.ca</u>
Website: www.gov.bc.ca/buildingcodes



No. B19-05 December 12, 2019

Secondary Suites, Changes to Design and Construction Requirements British Columbia Building Code 2018 Revision 2

The purpose of this bulletin is to provide information about Revision 2 changes to the British Columbia Building Code 2018 (BC Code) for the design and construction of new secondary suites. Changes are effective December 12, 2019 and apply to projects for which a permit is applied for on or after this date.

A separate bulletin B19-04 discusses how the BC Code changes to secondary suite requirements may impact land use planning.

Background

The BC Code introduced requirements for secondary suites in 1995. Therefore, the National Building Code (National Code) provisions were not adopted when they were first published in 2010. The BC Code requirements have not been substantially updated since 1995.

The adopted changes:

- harmonize with the form and approach of the National Code, and most of its technical requirements:
- incorporate historical requirements from the BC Code that provide a higher level of health and safety; and
- adapt some requirements based on application to existing buildings and to coordinate with other requirements.

The Province of British Columbia (B.C.) is working to remove barriers to secondary housing forms. These mid-cycle revisions to the BC Code aim to increase options for the design and construction of new secondary suites in buildings. Allowing the construction of more secondary suites in more building types helps create more housing units while providing an acceptable level of health and fire safety to occupants. These changes provide local authorities with more options for land use planning.

The definition of secondary suite in the BC Code is not to be equated with similar terms in land use bylaws. Land use bylaws may define or use the term secondary suite to describe housing types. The term might carry a different meaning in bylaw than the meaning assigned in the BC Code. It is often appropriate to set aside the BC Code terms when considering land use and zoning matters.

Including solutions for design and construction of secondary suites in the BC Code does not allow owners to contravene land use bylaws. Land use bylaws govern where secondary suites are permitted whereas the BC Code governs how they are to be built. **Before constructing a secondary suite, check with the local authority.**

The BC Code governs the design and construction of new secondary suites including alterations to existing buildings to add a secondary suite as well as new work or alterations within a secondary



Information Bulletin

Building and Safety Standards Branch

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suite. It is not intended that the BC Code be used as evaluation metrics or retroactive construction requirements for existing secondary suites.

Changes to the Definition of Secondary Suites

The BC Code previously defined a secondary suite as "a dwelling unit

- having a total floor space of not more than 90 m² in area,
- having a floor space less than 40% of the habitable space of the building,
- located within a building of residential occupancy containing only one other dwelling unit, and
- located in and part of a building which is a single real estate entity."

The **new** definition states that a *secondary suite* means "a self-contained *dwelling unit* located within a *building* or portion of a *building*

- completely separated from other parts of the building by a vertical fire separation that has a
 fire-resistance rating of not less than 1 h and extends from the ground or lowermost
 assembly continuously through or adjacent to all storeys and spaces including service
 spaces of the separated portions,
- of only residential occupancy that contains only one other dwelling unit and common spaces, and
- where both dwelling units constitute a single real estate entity."

The previous definition placed limits on floor space as a mechanism to moderate fire load and occupant load. This revision **discontinues the prescribed floor space amounts and percentage distribution**. New requirements as well as some existing and revised requirements, moderate risks attributed to fire load and occupant load as compensatory measures. **Check with the local authority on floor space allowances.**

It cannot be assumed that the owner occupies one of the dwelling units, nor that the occupant of the dwelling unit has direct control over the secondary suite or use by its occupants as a means of increasing the level of safety. A secondary suite is not a subordinate suite to a principle suite. However, there are health and safety opportunities and benefits that come with a house with a secondary suite having single ownership that may not be available for units with separate ownership. Typical requirements for separately-owned dwelling units have been adjusted to accommodate the interest, coordination, and maintenance that is available with single ownership.

In addition, this change adopts and adapts permissions in the National Code to allow the construction of secondary suites in a building that may contain more than one dwelling unit or other occupancy. These permissions are limited and only apply where a dwelling unit and its secondary suite are completely separated from other parts of the building with continuous vertical fire-rated construction. These permissions do not apply where any portion of the dwelling unit and its secondary suite are above or below another dwelling unit or other occupancy.

Examples of buildings where the BC Code allows the construction of secondary suites include sideby-side duplexes and also row houses where a vertical fire separation separates the portion with the dwelling unit with the secondary suite from the remainder of the building. Examples where secondary suites are not permitted are up/down duplexes and apartment buildings where dwelling units are above or below other dwelling units.

The contents of this Bulletin are not intended to be provided as legal advice and should not be relied upon as legal advice. For further information, contact the Building and Safety Standards Branch.

Appendix 7: BCBC Update Information Bulletin

Building and Safety Standards Branch

PO Box 9844 Stn Prov Govt Victoria BC V8W 9T2

Email: building.safety@gov.bc.ca Website: www.gov.bc.ca/buildingcodes

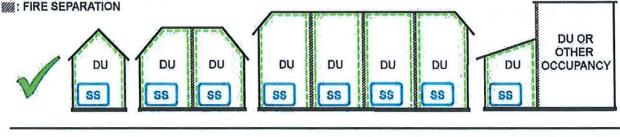


The following illustration provides examples of the types of buildings in which the BC Code allows the construction of secondary suites and where secondary suites are not permitted. Before constructing a secondary suite, check with the local authority.

Local government contact information is available here: http://www.civicinfo.bc.ca/directories.



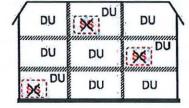
SINGLE REAL ESTATE ENTITY

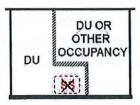








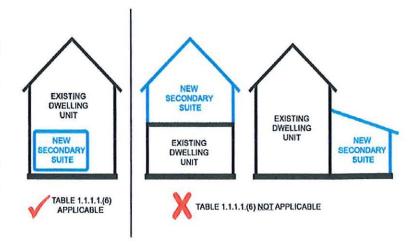




Changes to Alterations to Existing Buildings to Add a Secondary Suite

Some previous requirements were based on the premise of 'finishing' an unfinished basement and dealing with the hardships that may exist when working within the confines of an existing home. Some accommodation for when existing construction poses a practical or financial hardship is necessary to avoid abandoning projects or creating disincentives to permits and inspections.

This change distinguishes requirements for new construction with no existing construction imposing hardship - from requirements for alterations to existing buildings where existing construction poses a hardship. Division A provides Table 1.1.1.(6) containing Alternative Compliance Methods that are considered adequate but may only be used where existing construction acts as a practical barrier to compliance with the acceptable solutions in Division B of the BC Code.





Brentwell Construction Ltd. 1009 Kalamalka Lake Rd. Vernon, BC V1T 6V4 August 14, 2020

City of Salmon Arm 500 2 Avenue NE Salmon Arm, BC V1E 4N2

Re: Variance Rationale - 31 4th Street SE

We are requesting to have 4 parking stalls for the duplex rather than the amount required by the City of Salmon Arm. With the location being in close proximity to downtown, we believe that tenants will take advantage of this and walk or bike to and from the duplex which would minimize the use for more than one vehicle per unit/ suite. There is also off-street parking on 4 Street and Okanagan Avenue that could be used, without negatively impacting neighboring dwellings.

With rental properties in such high demand in the area, we hope that the City can allow this variance.

Thank you,
Brentwell Construction Ltd.

CITY OF SALMON ARM

BYLAW NO. 4579

A bylaw to amend "District of Salmon Arm Zoning Bylaw No. 2303"

WHEREAS notice of a Public Hearing to be held by the Council of the City of Salmon Arm in the Council Chambers at City Hall, 500 – 2 Avenue NE, Salmon Arm, British Columbia and by electronic means, on June 26, 2023 at the hour of 7:00 p.m. was published in the and , 2023 issues of the Salmon Arm Observer;

AND WHEREAS the said Public Hearing was duly held at the time and place above mentioned;

NOW THEREFORE the Council of the City of Salmon Arm in open meeting assembled enacts as follows:

- 1. "District of Salmon Arm Zoning Bylaw No. 2303" is hereby amended as follows:
 - a) Section 2.2 Definitions Secondary Suite e) and f) to read:
 - e) Must be located within a building or portion of a building of residential occupancy; and
 - f) Must be located within a building or portion of building where both dwelling units constitute a single real estate entity.
 - b) Amend the R-5 Zone Section 10.3.13 to add "Secondary Suite" as a permitted use.

2. SEVERABILITY

If any part, section, sub-section, clause of this bylaw for any reason is held to be invalid by the decisions of a Court of competent jurisdiction, the invalid portion shall be severed and the decisions that it is invalid shall not affect the validity of the remaining portions of this bylaw.

3. ENACTMENT

Any enactment referred to herein is a reference to an enactment of British Columbia and regulations thereto as amended, revised, consolidated or replaced from time to time.

4. EFFECTIVE DATE

CORPORATE OFFICER

This bylaw shall c	ome into full force and	l effect upon adoption of same.

5. CITATION

This bylaw may be	cited as "City o	f Salmon Arm Zoning Ar	mendment Bylaw No. 4579"
READ A FIRST TIME THIS		DAY OF	2023
READ A SECOND TIME THIS		DAYOF	2023
READ A THIRD TIME THIS		DAYOF	2023
APPROVED PURSI ON THE	JANT TO SECT DAY OF	TION 52 (3) (a) OF THE TI , 2023	RANSPORTATION ACT
		For Minister of T	ransportation & Infrastructure
ADOPTED BY COU	JNCIL THIS	DAYOF	2023
			MAYOR

Item 10.2

CITY OF SALMON ARM

Date: June 12, 2023

Moved: Councillor

Seconded: Councillor

THAT: the Bylaw entitled City of Salmon Arm Zoning Amendment Bylaw No. 4590 be read a first and second time.

[ZON-1269; City of Salmon Arm; Text Amendment; Accessible Parking Regulations]

CITY OF SALMONARM

To:

His Worship Mayor Harrison and Members of Council

Date:

May 25, 2023

Subject:

Zoning Bylaw Amendment Application No. 1269

Accessible Parking Regulations

STAFF RECOMMENDATION

THAT:

A bylaw be prepared for Council's consideration, amending Zoning Bylaw No. 2303, as follows, by adding:

i) To Section 2.0 Definitions, after "Accessory Use" and before "Accommodation Unit", the following:

Accessible Car Space means a car parking space designated for individuals with mobility limitations, who hold a valid accessible parking permit.

Accessible Van Space means a parking space designated for those with mobility issues designed to allow room for people to load or unload a wheelchair, scooter, walker or similar device that is used to transport a person who has limited ability and hold a valid accessible parking permit.

Accessible Parking Stall means either an Accessible Car Space or an Accessible Van Space.

ii) After Section 11 of Appendix I: Off - Street Parking and Loading, the following:

12. Accessible Parking Stalls

- .1 Accessible Car Spaces are a minimum of 5.8m depth x 2.4m width. Accessible Van Spaces are a minimum of 5.8m depth x 3.3m width, with an additional minimum aisle width of 1.5m. The additional aisle may be shared between neighbouring Accessible Van Spaces.
- .2 Accessible Parking Stalls must be:
 - (a) clearly identified by both paint markings on the parking space and a freestanding Sign in front of the space that is not less than 1.2 m above ground measured to the bottom of the Sign and incorporating the international symbol of accessibility for persons with disabilities. Accessible Van Spaces signage shall also include the words "van accessible";
 - (b) treated with a firm and slip-resistant surface;
 - (c) provided with a curb letdown from the shared access aisle to any raised pedestrian sidewalk that provides connectivity to the Building;

- (d) constructed with a slope not exceeding 2%; and
- (e) marked with high-colour-contrast diagonal pavement lines on the access aisle
- .3 Of the required stalls for all permitted uses, the minimum number of Accessible Parking Stalls shall be provided in accordance with the following table:

Total Number of Parking Spaces required	Total Number of Accessible Parking Stalls to be Provided	Accessible Car Spaces to be provided	Accessible Van spaces to be provided
0-5	0	0	0
6-25	1	1	0
26-50	3	2	1
51-100	4	3	1
100+	6	4	2

- .4 Should Accessible Parking Stalls be provided that are in addition to those in Section 12.3 then those Accessible Parking Stalls must be in addition to the required number of parking stalls.
- .5 Parking facilities that are used exclusively for buses, trucks, delivery vehicles, law enforcement vehicles, and vehicular impound are not required to include accessible spaces. However, if such lots are accessed by the public (e.g., impounded vehicle retrieval), one (1) Accessible Parking Stall is to be provided.

PURPOSE

To introduce Zoning Bylaw text amendments that would add accessible parking regulations into the Zoning Bylaw, in order to have enforceable minimum standards.

BACKGROUND

Prior to 2018 accessible parking regulations were addressed by the BC Building Code. However, with revisions to the BC Building Code, the specific parking regulations were removed. This was viewed as a way in which to harmonize the BC Building Code with the National Building Codes and standards. Prior to the Code changes in 2018, the Province communicated with local governments that the accessible parking regulations would be removed from the Code and if communities desired accessible parking regulations then those requirements would have to be included in the Zoning Bylaw (see Appendix 1). Under the previous regulations (BC Building Code requirements) if more than 50 parking spaces were required for a development, one of every 100 stalls had to be accessible with a minimum width of 3.7m. The City of Salmon Arm did not make the recommended changes to the Zoning Bylaw at that time. There are no current regulations governing accessible parking stalls.

In formulating the proposed amendments, staff researched information published by the Province and regulations of other communities. In 2020, the BC Office of Housing and Construction Standards published the *Building Accessibility Handbook*, an illustrated supplement to the BC Building Code. The *Building Accessibility Handbook* offers recommendations for accessible car spaces, location and signage (Appendix 2). The proposed amendments align with those recommendations in the *Building Accessibility Handbook*.

Staff also researched the accessible parking regulations for Kamloops, Kelowna, Vernon, Nelson and Victoria in an effort to find a consistent format or rationale to formulate a parking schedule. Each community bylaw considers the same general factors, including - number of car spaces, number of van spaces, dimensions of stalls, surfacing and identification of the stalls, and access to building. However, each community has a slightly different formula for the number of required stalls. The following table is a summary of accessible parking space requirements compared to the proposed accessible parking space scale.

Table 1. Community Comparison: Number of Required Accessible Parking Stalls

	Total Spaces Required: 0-5 Stalls (#of Accessible Car Space / # Accessible Van Spaces required)	Number of Total Spaces Required: 6-25 (#of Accessible Car Space / # Accessible Van Spaces required)	Number of Total Spaces Required: 26-50 (#of Accessible Car Space / # Accessible Van Spaces required)	Number of Total Spaces Required: 51-100 (#of Accessible Car Space / # Accessible Van Spaces required)	Number of Total Spaces Required: +100 (#of Accessible Car Space / # Accessible Van Spaces required)
Kelowna	0/0	1/0	2-3/1	3/1	Increases 1 stall per 100 stalls/2
Kamloops*	0/*	1/*	2/*	3-4/*	5-8 stalls until +200 then 2% of overall spaces
Nelson◆	1/0	2/0	3/0	4/0	Increases 1 stall for every 15 additional stalls
Victoria+	0	0/1	1/1	2-3/1	1 for every 25 stalls/scaled to increase as accessible car spaces increases

^{*}At least 50% of accessible spaces provided must be van accessible.

The proposed bylaw amendments touch on each of the above mentioned factors found in parking regulations of other municipalities as well as the Building Accessibility Handbook - stall type, stall dimensions, stall identification and design. It should be noted that the accessible parking spaces, as proposed, are not in addition to the required number of spaces, the accessible spaces are to be provided within the required total number of spaces. This aligns with the formulas of other communities mentioned previously. For example, if a development required 150 parking stalls, then four of those stalls would have to be accessible car spaces and three would have to be accessible van spaces for a total of seven spaces within the 150 overall parking space count.

The proposed changes to the Zoning Bylaw would provide consistency to development, in particular multifamily and commercial development. Effectively, the proposed amendments increase the required number of spaces from one of every 100 stalls to five (three accessible car stalls, 2 accessible van stalls) in 100 stalls and include location and signage details not required under the current regulations. The proposed amendments align more consistently with the current provincial guidelines and the regulations of other communities. Further, the proposed amendments account for increased demand of accessible parking that comes with population growth and the more inclusive design of buildings, infrastructure and amenities.

Melinda Smyrl, MCIP, RPP Planner

Gary Buxton, MCIP, RPP

Director of Planning and Community

Services

additional spaces required for health or hospital uses.

P93



Building and Safety Standards Branch
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Victoria BC V8W 972

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Website: <u>www.gov.bc.ca/buildingcodes</u>

No. B18-09 December 17, 2018

Regulatory Changes to Accessible Parking Requirements

The purpose of this bulletin is to provide information about the removal of historical accessible parking requirements from the BC Building Code and resources to support local governments in regulating accessible parking in their bylaws.

Legislation

Part 14 of the *Local Government Act* [RSBC 2015] enables local governments and the Islands Trust to make decisions on planning and land use within their jurisdiction. Section 525 of the *Local Government Act* provides local governments with the authority to establish off-street parking requirements, including specific design standards for accessible parking.

The *Building Act* [SBC 2015] establishes the Province as the primary authority to establish building requirements. The *Building Act* was adopted to support consistency in the building regulatory system by eliminating the patchwork of building requirements that varied across the province. At the same time, the Province recognized that the need for consistency must be balanced with flexibility in order for local governments to meet specific community needs. Section 5 of the *Building Act* allows for such flexibility by providing local governments the authority to establish building requirements for matters identified as unrestricted by regulation.

There are two reasons for which a matter may be unrestricted under Section 5 of the Building Act:

- The matter is subject to a particular location or unique circumstance; therefore, the local government is best positioned to set the requirements; or
- A local government aims to achieve an objective under an existing statutory authority and the enacted building requirement is necessary to achieve that objective.

Background

In February 2016, the Province approved accessible parking spaces as an unrestricted matter under the *Building Act*, for which local governments could retain or establish their own requirements in bylaws. The Building and Safety Standards Branch distributed an information bulletin titled Building Act: Update for Local Governments to support local governments.

The Building and Safety Standards Branch consulted with stakeholders about accessibility requirements in the BC Building Code in February 2018. The consultation feedback on parking generally indicated that the BC Building Code's historical parking requirements were insufficient.

To address the regulatory overlap between the BC Building Code and municipal bylaws and in support of harmonizing the BC Building Code with the National Code, accessible parking provisions are not included in the BC Building Code 2018, which became effective December 10, 2018.



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Website: <u>www.gov.bc.ca/buildingcodes</u>

Regulatory Change

The BC Building Code 2018 is harmonized with the National Building Code 2015, which does not include requirements for accessible parking spaces.

While previous editions of the BC Building Code did provide the minimum requirements for accessible parking in instances where off-street parking was either required by local government bylaw or provided voluntarily by the building owner, the regulatory overlap between the *Local Government Act* and the BC Building Code had the potential to cause confusion regarding which requirements should be followed. Removing historical accessible parking requirements from the BC Building Code 2018 clarifies that local governments are best suited to regulate accessible parking spaces according to their communities' needs. Local governments that do not already have their own accessible parking requirements in their bylaws may wish to consider amending their bylaws to incorporate accessible parking requirements.

The BC Building Code 2018 requires a greater level of building accessibility by combining the requirements of the National Building Code 2015 with BC's historical requirements. In aligning more closely with the National Building Code, the BC Building Code achieves greater consistency not only with the National Building Code, but also with codes from other Canadian jurisdictions.

Resources

Several resources are available to support enhancing accessible parking, as outlined below.

The <u>Accessible Design for the Built Environment standard</u> (CSA B651-18) provides guidance on accessible parking standards. Local governments who do not already regulate accessible parking may adopt these standards or establish requirements that work best for their communities.

The City of Ottawa developed <u>Accessibility Design Standards</u> to support the design of accessible on and off-street parking.

The <u>Accessibility for Ontarians with Disabilities Act</u>: Integrated Accessibility Standards includes requirements governing the design of public spaces in the built environment.

The Social Planning and Research Council, with input from various communities, developed an <u>Accessible Community Bylaw Guide</u>. For a sample Model Accessible Parking Bylaw, please review pages 72-25.

British Columbia Building Code 2018

Although accessible parking is no longer regulated by the BC Building Code, guidance to support local governments to establish accessible parking requirements in their bylaws is available in the Notes of the BC Building Code.

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Email: <u>building.safety@gov.bc.ca</u>
Website: <u>www.gov.bc.ca/buildingcodes</u>



Implications

Local governments that do not already have accessible parking requirements in their bylaws may wish to develop requirements that meet the specific needs of their communities. Bylaws with existing accessible parking requirements will continue to apply without overlap with the BC Building Code.

Local governments are best positioned to set accessible parking requirements based on the demographics, types of buildings developed, and the specific needs of their communities.

Communities without specific bylaw provisions will be unable to enforce minimum standards for accessible parking after December 10, 2018.

Scheme	BC Building Code 2012	BC Building Code 2018
Local Government Bylaw with Accessible Parking Requirement	Local bylaw applies. Building owners must provide the minimum number of accessible parking spaces in the BC Building Code or, if accessible spaces are required in the local bylaw, the minimum number of accessible spaces in the bylaw.	Local bylaw applies.
	Building owners must comply with which ever requirement is greater.	
Local Government Bylaw without Accessible Parking Requirement	Where parking is required by local government, or parking is provided voluntarily by the building owner, building owners are required to comply with the minimum accessibility requirements in the BC Building Code.	The 2012 accessibility requirements are provided in the Notes of the 2018 BC Building Code. Local governments can amend their bylaw to reproduce these requirements or to include their own. In the absence of accessible parking requirements in bylaws, local governments will be unable to enforce minimum standards for accessible parking.
Code Provisions	One of every 100 spaces must be accessible when 50 or more spaces are provided. Minimum width of 3.7m required.	Guidance provided in the Notes of the BC Building Code.

The contents of this Bulletin are not intended to be provided as legal advice and should not be relied upon as legal advice. For further information, contact the Building and Safety Standards Branch.



Building and Safety Standards Branch

PO Box 9844 Stn Prov Govt Victoria BC V8W 9T2 Email: <u>building.safety@gov.bc.ca</u> Website: <u>www.gov.bc.ca/buildingcodes</u>

More Information

Please direct any questions about developing new bylaws to:

Ministry of Municipal Affairs and Housing Planning and Land Use Management Branch

Telephone: 250-387-3394 Email: PLUM@gov.bc.ca

Please direct any questions about technical code requirements to:

Ministry of Municipal Affairs and Housing Building and Safety Standards Branch

Telephone: 250-387-3133

Email: Building.Safety@gov.bc.ca

Full text of Part 14 of the *Local Government Act* – Planning and Land Use Management: http://www.bclaws.ca/civix/document/id/complete/statreg/r15001 14

Full text of the Building Act:

http://www.bclaws.ca/civix/document/id/complete/statreg/15002#part1

Full text of the Accessibility for Ontarians with Disabilities Act: https://www.ontario.ca/laws/statute/05a11

For more information about the changes to accessibility requirements, please see technical bulletin 18-05: Accessibility in the British Columbia Building Code 2018.

Intent: To exempt certain areas of buildings

from the requirements of Sentence 3.8.2.3.(1),

which would otherwise require an accessible path of travel, on the basis that it is impractical

and onerous to provide access to and from

- 2) Except as required by Sentence (3), access is not required
- a) to service rooms.
- b) to elevator machine rooms,
- c) to janitor's rooms,
- d) to service spaces,
- e) to crawl spaces,
- f) to attic or roof spaces,
- g) reserved,
- h) reserved,
- i) within portions of a *floor area* with fixed seats in an *assembly occupancy* where those portions are not part of the *accessible* path of travel to spaces designated for wheelchair use,
- j) within floor levels of a suite of residential occupancy that are not at the same level as the entry level to the suite,
- k) reserved, or
- within those parts of a floor area that are not at the same level as the entry level, provided <u>facilities</u> and uses provided on any raised or sunken level are also <u>accessible</u> on the entry level.
- **3)** In an *assembly occupancy*, the number of spaces designated for wheelchair use within rooms or areas with fixed seats shall conform to Table 3.8.2.3. (See also Article 3.8.3.21. for additional requirements.)

same level as the entry level

Attributions [F74-OA2]

these areas.

Intent: To limit the probability of an insufficient number of spaces for manual wheelchairs, which could lead to people who use manual wheelchairs being excluded from certain rooms and areas.

Table 3.8.2.3.

Designated Wheelchair Spaces
Forming Part of Sentence 3.8.2.3.(3)

Number of Fixed Seats in Seating Area	Number of Spaces Required for Wheelchairs
50 and under	2
<u>51 – 150</u>	4
<u>151 – 300</u>	5
<u>3</u> 01 – 500	6
501 – <u>5</u> 00 <u>0</u>	6, plus one additional space for each increment of up to 150 in excess of 501 fixed seats
5 001 and over	36, plus one additional space for each increment of up to 200 in excess of 5 001 fixed seat

The 2018 edition of the British Columbia Building Code has increased the ratio for required accessible viewing spaces.

3.8.2.4. Path of Travel to Storeys Served by Escalators and Moving Walks

1) In a *building* in which an escalator or inclined moving walk provides access to any floor level above or below the entrance floor level, an interior *accessible* path of travel shall also be provided to <u>those</u> floor levels. (See Note A-3.8.2.4.(1).)

A-3.8.2.4.(1) Path of Travel to Storeys Served by Escalators and Moving Walks.

In some buildings, escalators and inclined moving walks are installed to provide transportation from one floor level to another floor level so as to increase the capacity to move large numbers of persons. Some buildings located on a sloping site are accessible from street level on more than one storey and an escalator or inclined moving walk is provided for internal movement from floor to floor. In both these situations, a person with a physical disability must be provided with an equally convenient means of moving between the same floor levels within the building. This can be accomplished by providing elevators or a platform-equipped passenger-elevating device.

2) The route from the escalator or inclined moving walk to the *accessible* path of travel that leads from floor to floor as required by Sentence (1) shall be clearly indicated by appropriate signs. (See also Article 3.8.2.10.)

3.8.2.5. Path of Travel to Parking Areas and Passenger-Loading Zones

(See Note A-3.8.2.5.)

Attributions [F73-OA1]

Intent: To limit the probability that people using a manual wheelchair or other manual mobility assistance device will not be able to move about within a building without the assistance of another person.

Attributions [F73-OA1]

Intent: To limit the probability that people using a manual wheelchair or other manual mobility assistance device will not be able to find the way to an accessible path of travel in the building.

- A-3.8.2.5. Parking Areas. In localities where local regulations or bylaws do not govern the provision of or dimensions of accessible parking spaces, the following provides guidance to determine appropriate provisions. If more than 50 parking spaces are provided, parking spaces for use by persons with physical disabilities should be provided in the ratio of one for every 100 parking spaces or part thereof. Where parking spaces are provided, parking spaces for use by persons with physical disabilities should also be provided for each accessible viewing position and for each accessible sleeping room or bed space. Parking spaces for use by persons with physical disabilities should
- (1) be not less than 2 400 mm wide and provided on one side with an access aisle not less than 1 500 mm wide,
- (2) have a firm, slip-resistant and level surface,
- (3) be located close to an entrance required to conform to Article 3.8.2.2.,
- (4) be clearly marked as being for the use of persons with physical disabilities, and
- (5) be identified by a sign located not less than 1 500 mm above ground level, with the International Symbol of Access (Figure A-3.8.2.5.-A).

Section 3.8. Accessibility



Figure A-3.8.2.5.-A
"International Symbol of Access" sign

A general guide for the slip resistance of materials is provided in the Appendix of this handbook.

Asphalt, concrete and firm, compacted gravel are acceptable parking surfaces. Curb ramps should be not less than 1500 mm wide. Parallel parking spaces should be not less than 7000 mm long. If more than one parking space is provided for persons with physical disabilities, a single access aisle can serve two

adjacent parking spaces. The arrangement shown in Figure A-3.8.2.5.-B allows the shared use of an access aisle to serve two adjacent parking spaces provided for use by persons with physical disabilities. Parking to accommodate vans and other vehicles equipped with platform lifts or side ramps should be provided greater dedicated space. The design of the path of travel should accommodate loading to and from lifts and ramps, where intended. Vertical clearance must also be considered.

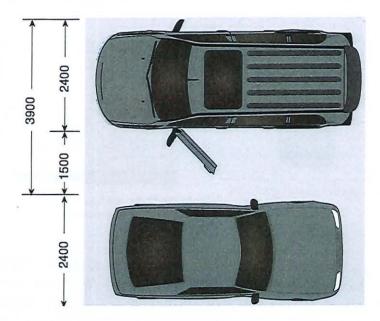


Figure A-3.8.2.5.-B Shared access aisle

The access aisle may serve more than one parking stall and should have the same level surface as the parking stalls it serves. Consider the movement around doors and ramps so that there is enough space and it is not necessary to travel behind other cars or be in a position where it is difficult to be seen by other drivers. Figure 3.8.2.5. shows a shared aisle serving two stalls. The CSA B651, Accessible Design for the Built Environment standard is another source of information for accessible parking stall quantities and design.

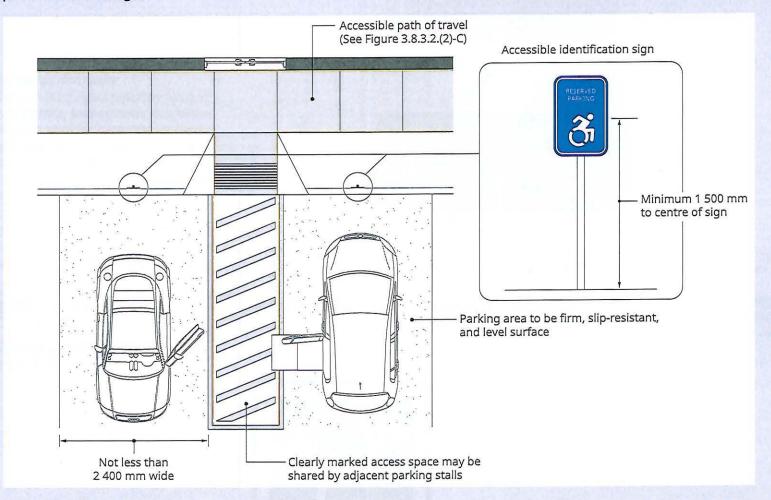


Figure 3.8.2.5.
Parking stall access aisles

1) An accessible path of travel shall be provided between parking stalls for persons with disabilities and an accessible entrance referred to in Article 3.8.2.2. (See Note A-3.8.2.5.(1).)

A-3.8.2.5.(1) Path of Travel to Parking. It is not intended that a separate accessible entrance must be provided from the parking area. The designer may choose to designate the entrance leading to the parking area as the required entrance or to provide a properly identified and unobstructed path of travel from the parking area to the entrance which is accessible. The entrance chosen should, in any case, be the closest entrance to the parking area and one normally used by the occupants of the building. Long paths of travel are not recommended.

- 2) Where a passenger-elevating device serves one or more indoor parking levels, an *accessible* path of travel shall be provided between <u>each</u> parking level <u>containing stalls for persons with disabilities</u> and all other parts of the *building* required to be *accessible* in accordance with Subsection 3.8.3.
- 3) Passenger-loading zones shall comply with Subsection 3.8.3. and be provided with an *accessible* path of travel to an *accessible* entrance referred to in Article 3.8.2.2.

Attributions [F73-OA1]

Intent: To limit the probability that people using a manual wheelchair or other manual mobility assistance device will not be able to travel between exterior parking spaces and a building entrance without the assistance of another person.

Attributions [F73-OA1]

Intent: To limit the probability that people using a manual wheelchair or other manual mobility assistance device will not be able to travel between indoor parking spaces and a building entrance without the assistance of another person.

Attributions [F73-OA1]

Intent: To state the application of Subsection 3.8.3. regarding exterior passenger-loading zones.

Where there are several buildings with parking areas or passenger-loading zones, parking stalls and loading zones should be designed and located to accommodate access to all buildings by people with disabilities and close to an accessible entrance.

The design should leave adequate space for side- and rear-loading vehicles.

It is recommended that the number of parking stalls be calculated to suit specific needs. Some buildings such as medical clinics may need more accessible parking stalls than other buildings.

3.8.2.6. Controls and Outlets

1) Except as provided in Sentence 3.5.2.1.(3), controls for the operation of *building* services or safety devices, including electrical switches, thermostats, faucets, door and window hardware and intercom switches, that are intended to be operated by the occupant and are located in an *accessible floor area* shall comply with Subsection 3.8.3. (See Note A-3.8.2.6.(1).)

Attributions [F74-OA2]

Intent: To state the application of Subsection 3.8.3. regarding controls.

Intent: To direct Code users to Sentence 3.5.2.1.(3) for the requirement regarding controls in passenger elevators.

CITY OF SALMON ARM

BYLAW NO. 4590

A bylaw to amend "District of Salmon Arm Zoning Bylaw No. 2303"

WHEREAS notice of a Public Hearing to be held by the Council of the City of Salmon Arm in the Council Chambers at City Hall, 500 – 2 Avenue NE, Salmon Arm, British Columbia and by electronic means, on June 26, 2023 at the hour of 7:00 p.m. was published in the and , 2023 issues of the Salmon Arm Observer;

AND WHEREAS the said Public Hearing was duly held at the time and place above mentioned;

NOW THEREFORE the Council of the City of Salmon Arm in open meeting assembled enacts as follows:

- 1. "District of Salmon Arm Zoning Bylaw No. 2303" is hereby amended by adding:
 - To Section 2.0 Definitions, after "Accessory Use" and before "Accommodation Unit", the following:

Accessible Car Space means a car parking space designated for individuals with mobility limitations, who hold a valid accessible parking permit.

Accessible Van Space means a parking space designated for those with mobility issues designed to allow room for people to load or unload a wheelchair, scooter, walker or similar device that is used to transport a person who has limited ability and hold a valid accessible parking permit.

Accessible Parking Stall means either an Accessible Car Space or an Accessible Van Space.

- ii) After Section 11 of Appendix I: Off Street Parking and Loading, the following:
 - 12. Accessible Parking Stalls
 - .1 Accessible Car Spaces are a minimum of 5.8m depth x 2.4m width. Accessible Van Spaces are a minimum of 5.8m depth x 3.3m width, with an additional minimum aisle width of 1.5m. The additional aisle may be shared between neighbouring Accessible Van Spaces.
 - .2 Accessible Parking Stalls must be:

- (a) clearly identified by both paint markings on the parking space and a freestanding Sign in front of the space that is not less than 1.2m above ground measured to the bottom of the Sign and incorporating the international symbol of accessibility for persons with disabilities. Accessible Van Spaces signage shall also include the words "van accessible";
- (b) treated with a firm and slip-resistant surface;
- (c) provided with a curb letdown from the shared access aisle to any raised pedestrian sidewalk that provides connectivity to the Building;
- (d) constructed with a slope not exceeding 2%; and
- (e) marked with high-colour-contrast diagonal pavement lines on the access aisle
- .3 Of the required stalls for all permitted uses, the minimum number of Accessible Parking Stalls shall be provided in accordance with the following table:

Total	Total Number of	Accessible	Accessible Van
Number of	Accessible Parking	Car Spaces to	spaces to be
Parking	Stalls to be Provided	be provided	provided
Spaces			
required			
0-5	0	0	0
6-25	1	1	0
26-50	3	2	1
51-100	4	3	1
100+	6	4	2

- .4 Should Accessible Parking Stalls be provided that are in addition to those in Section 12.3 then those Accessible Parking Stalls must be in addition to the required number of parking stalls.
- .5 Parking facilities that are used exclusively for buses, trucks, delivery vehicles, law enforcement vehicles, and vehicular impound are not required to include accessible spaces. However, if such lots are accessed by the public (e.g., impounded vehicle retrieval), one (1) Accessible Parking Stall is to be provided.

2. SEVERABILITY

If any part, section, sub-section, clause of this bylaw for any reason is held to be invalid by the decisions of a Court of competent jurisdiction, the invalid portion shall be severed and the decisions that it is invalid shall not affect the validity of the remaining portions of this bylaw.

3. ENACTMENT

Any enactment referred to herein is a reference to an enactment of British Columbia and regulations thereto as amended, revised, consolidated or replaced from time to time.

4. EFFECTIVE DATE

This bylaw shall come into full force and effect upon adoption of same.

5. CITATION

This bylaw may be cited as "City of Salmon Arm Zoning Amendment Bylaw No. 4590"

READ A FIRST TIME THIS	DAY OF	2023
READ A SECOND TIME THIS	DAYOF	2023
READ A THIRD TIME THIS	DAYOF	2023
ADOPTED BY COUNCIL THIS	DAY OF	2023

MAYOR
CORPORATE OFFICER

Item 10.3

CITY OF SALMON ARM

Date: June 12, 2023

Moved: Councillor

Seconded: Councillor

THAT: the Bylaw entitled City of Salmon Arm Fee for Service Amendment Bylaw No. 4592 be read a first, second and third time.

[Parking Violations]

P10city of SALMONARM

TO:

His Worship Mayor Harrison and Council

DATE:

May 30, 2023

SUBJECT:

Amendment to Fee for Service Bylaw No.2498

RECOMMENDATION:

THAT:

Fee for Service Bylaw No. 2498 be amended as follows:

Line Item 3 of Appendix 3 in Schedule B be replaced with

2	Parking Violations (Bylaw No. 3668)	
3.	All Parking Violations	\$50.00
	If paid within 2 days	\$25.00

AND THAT:

Line Item 5. of Appendix 3 in Schedule B be amended to delete the reference to Marine Park NE Parking Lot.

BACKGROUND:

Through amending Bylaw 4522, City Council recently amended the parking fees for the metered downtown streets and parking lots. The rate moved from .25 cents an hour to \$1.00 per hour. The streets and parking lots in the downtown which are not metered have provision for 1 or 2 hour free parking. The current fine for violations to the parking regulations is \$35.00, which may be reduced to \$10.00 if paid within 2 days.

Since the implementation of the parking fee increase it seems the use of the Inner Core parking lot has declined substantially. It is suspected that some of the inner core users may now be parking on the street for extended periods of time, which is causing some problem for the downtown merchants who need those parking spaces for customers. It is also apparent that the \$10.00 penalty if paid within two days is so low that there is no incentive to pay for parking on an hourly basis. The Downtown Parking Commission discussed this matter at their meeting of May 16, 2023 and, with the intended goal of discouraging the parking abuses, unanimously passed a motion to forward to Council the recommendation to raise parking fines to \$50.00, which may be reduced to \$25.00 if paid within 2 days.

With regard to the Marine Park Parking Lot, the parking fees currently indicated in the Fee for Service Bylaw have the parking fee set at \$4.00 per day for a regular stall or \$6.00 a day for a motor home or truck and trailer stall. As noted above, the parking rate was increased from .25 per hour to \$1.00 per hour, including the pay by plate machine serving the Marine Park lot. This housekeeping amendment is to simply delete the outdated daily parking reference in the bylaw.

Respectfully submitted,

Prepared By:

Maurice Roy, RBO/CRBO
Manager of Permits & Licensing

Reviewed By:

Gary Buxton

Director of Planning & Community Services

CITY OF SALMON ARM

BYLAW NO. 4592

A bylaw to amend "District of Salmon Arm Fee for Service Bylaw No. 2498"

WHEREAS, it is deemed desirable and expedient to alter the fees imposed by "District of Salmon Arm Fee for Service Bylaw No. 2498";

NOW THEREFORE the Council of the City of Salmon Arm, in open meeting assembled enacts as follows:

1. Schedule "B" -

a) Sentence 3. of Appendix 3 in Schedule B:

[Parking Violations	
	3.	All Parking Violations	\$35.00
ļ		If paid within 2 days	\$10.00

be replaced with:

	Parking Violations	
3.	All Parking Violations	\$50.00
	If paid within 2 days	\$25.00

b) Sentence 5. of Appendix 3 in Schedule B be amended by deleting the reference to "Marine Park NE Parking Lot" in its entirety.

SEVERABILITY

2. If any portion of this Bylaw is held invalid by a Court of competent jurisdiction, then that invalid portion shall be severed and the remainder of this Bylaw shall be deemed to have been adopted without the severed portion.

ENACTMENTS

3. Any enactments referred to herein is a reference to an enactment of British Columbia and regulations thereto, as amended, revised, consolidated or replaced from time to time.

EFFECTIVE DATE

This Bylaw shall come into full force and effect upon adoption of same.

CITATION

5. This Bylaw may be cited as the "City of Salmon Arm Fee for Service Amendment Bylaw No. 4592".

READ A FIRST TIME THIS	DAY OF	2023
READ A SECOND TIME THIS	DAY OF	2023
READ A THIRD TIME THIS	DAY OF	2023
ADOPTED BY THE COUNCIL	DAYOF	2023
	_	
		MAYOR
	•	CORPORATE OFFICER

Item 10.4

CITY OF SALMON ARM

Date: June 12, 2023

Moved: Councillor

Seconded: Councillor

THAT: the Bylaw entitled City of Salmon Arm Subdivision and Development Servicing Bylaw No. 4293 be read a first and second time.



City of Salmon Arm Memorandum from the Engineering and Public Works Department

TO:

His Worship the Mayor and Members of Council

FROM:

Robert Niewenhuizen, Director of Engineering and Public Works

PREPARED BY:

Jenn Wilson, Service Delivery Management Coordinator

DATE:

June 5, 2023

SUBJECT:

SUBDIVISION AND DEVELOPMENT SERVICING BYLAW UPDATE

RECOMMENDATION:

THAT:

The Subdivision and Development Servicing Bylaw No. 4293 be read a first and

second time.

AND THAT:

The Subdivision and Development Servicing Bylaw No. 4163 be repealed upon

final reading of the Subdivision and Development Servicing Bylaw No. 4293

The Subdivision and Development Servicing Bylaw No. 4163 was adopted by Council on October 11, 2016. Since then, the Engineering Department staff have been collecting 'housekeeping' updates and recommendations for updates through master planning documents. Staff have completed a draft update and completed a thorough review of the City's Subdivision and Development Servicing Bylaw No. 4163 against current best practices. The review process has resulted in a final draft of a new bylaw intended to be streamlined, modernized, user friendly, legally sound and consistent with updated master plans.

The previous bylaw update was significant and included several rounds of consultation with local engineers and developers as well as a thorough legal review. The proposed changes in this update are generally minor in nature, as such a legal review and consultation with external stakeholders is not recommended by staff.

The most significant changes incorporate recommendations from the City's Stormwater Master Plan (ISL Engineering, 2020) and the City's Active Transportation Plan (Urban Systems, 2022) into Schedule B, Part 1 and 2, Design Criteria and Standard Drawings.

Staff carefully considered all master plan recommendations and opted not to include all recommendations during this revision cycle. Generally, these recommendations would require either a significant service level change or broader multi-departmental coordination.

The key changes to the documents are listed below.

Bylaw:

- Revision of definition of 'Low Density Residential to be consistent with the Official Community Plan definition.
- Addition of a 12m Urban Single Lane Hillside road cross-section (first introduced in the Park Hill development).
- Addition of bike lane or paved shoulder requirements on rural roads where indicated by the Official Community Plan.
- Removal of 'Fire Hydrants' from the list of works and services exempt for infill developments. Note: if density increases, fire hydrant gaps should be filled.

Design Criteria:

- Addition of information regarding Engineers and Geoscientists BC (EGBC) Firm Permit to Practice requirements.
- Addition of Illumination plans and Individual Lot Grading plans to design drawing submission set requirements
- Addition of a reference to BC Active Transportation (BCAT) Design Guide as best practices for AT design as well as to new/revised standard drawings
- Addition of Multi-use Path design specifications
- Addition of a maximum driveway width for residential and commercial properties, allowing wider driveways on wider lots, to a maximum of 8m and 10m respectively.
- Addition of recommendations for the City Stormwater Master Plan including:
 - Requirement to include considerations for the impact of Climate Change and a 10% increase to design flows, at minimum
 - Addition of enhanced recommendations for infiltration systems, specifically addressing risk management
 - A set run-off rate based on a basin wide calculation for flows entering into sensitive ecosystems
 - o A requirement for all culverts to accommodate the 100-year flood events
 - Updates to the run-off and roughness coefficients and Intensity-Duration-Frequency (IDF) curves
- Clarification on street lighting specifications
- Addition of a bee and drought friendly boulevard seed mix

Drawings:

- Update of CGS-8 Trail Type 1 (Multi-use Path) to meet AT Master Plan recommendation (BCAT best practices) of 3-4m width.
- Update of CGS-9 Trail Type 2 to meet AT Master Plan recommendation (BCAT best practices) of 2-3m width.
- Update RD-3 Urban Collector Road Cross-Section to meet BCAT best practices including the addition of an offset multi-use path (MUP) on one side of the roadway and removal of the bike lanes.
- Update of RD-9 Rural Arterial Road Cross-Section to meet BCAT best practices for rural roads with a widened paved shoulder of 2.5m or an offset MUP where right of way (ROW) and topography permit.
- Update of RD-8 Rural Collector Road Cross-Section to meet BCAT best practices for rural roads with a widened paved shoulder of 2.0m or an offset MUP where ROW and topography permit.

- Update of RD-7 Rural Local Road Cross-Section to improve AT capacity of rural roads with a widened gravel shoulder of 1.5m or an offset MUP.
- Update of RD-6A Industrial Area Road Cross-Section to improve AT capacity of industrial roads with a widened gravel shoulder of 1.5m or an offset MUP.
- Update of RD-6B New Industrial Park Cross-Section to improve AT capacity of industrial roads with inclusion of a 2.0m offset MUP.
- Update of CGS-5 Sidewalk Crossing at Driveway Entrance to the BCAT best practices.
- Update of CGS-6 Wheelchair Sidewalk Ramp to the BCAT best practices including tactile attention indicators in high use areas.
- Additional of drawings RD-11A Temporary 20m Cul-de-sac and RD-11B Temporary Lane Cul-de-sac.
- Update of ST-7 IDF curve to most recent Environment Canada Data.
- All drawings are sealed per Engineers and Geoscientists British Columbia (EGBC) requirements.

Construction Specifications

- Addition of MMCD Supplemental Specifications for Horizontal Direction Drilling
- Addition of MMCD Supplemental Specifications for Sanitary Pipe Lining

Construction Specifications:

General housekeeping items

Respectfully submitted,

Robert Niewenhuizen,

Director of Engineering and Public Works

X:\Operations Dept\Engineering Services\Subdivision and Development Servicing Bylaw\SDSB No. 4163\Amendment 4293\DRAFT AMENDMENT\2022 11 22 - Draft\HWM Report - Final Draft Servicing Bylaw INfo.docx

INFORMATIONAL CORRESPONDENCE - June 12, 2023

1.	Building Department – Building Statistics – May 2023	iN
2.	Building Department - Building Permits - Yearly Statistics	N
3.	V. De Groot - Email dated June 1, 2023 - Tax Prepayment Plan	N
4.	M. Defoe - Email dated June 5, 2023 - City Hall Hours of Operation	N
5.	M. Engel – Email dated June 1, 2023 – Request to use Canoe Beach Gazebo – July 2, 2023	Α
6.	T. Starkell, Administrative Services Manager, Salmon Arm Roots & Blues - Letter dated May 15, 2023 - Request for Letter of Support for SEP Application	A
7.	J. Broadwell, Manager, Downtown Salmon Arm – Request to Close Alexander Street for Roots and Blues Kick Off Concert – August 17, 2023	A
8.	A. VanderMeulen, Cornerstone CRC Outreach Team - Letter dated June 5, 2023 - Request for road closure - September 16, 2023	A
9.	B. Andrews / A. Heiser, Peer Engagement Coordinator, Canadian Mental Health Association – Letter received May 30, 2023 – Request for additional transit bus routes – Blind Bay to Salmon Arm	A
10.	S. Dewalle – Email dated May 25, 2023 – Request to use Blackburn Park – July 22, 2023	Α
11.	J. McEwan, Salmon Arm Fair Manager – Letter dated May 18, 2023 – Request for road closures for Salmon Arm Fair & Parade – September 9, 2023	A
12.	S. Dhaliwal, President, Salmon Arm Cricket Club – Letter received June 5, 2023 – Request for installation support of cement under pad for Cricket Playing Field	A
13.	The Wellspring Foundation for Education – Lake2Lake Ride for Rwanda – September 16-17, 2023	N
14.	K. Hartman, Vice-President of the New Denver and Area Housing Society – Email dated May 29, 2023 – Rural Housing Crisis Survey for Parliamentary Secretary for Rural Development	N
15.	Ministry of Transportation and Infrastructure – Email dated May 30, 2023 – BC E-Bike Rebate Program	N
16.	L. Connor, Manager – Accessibility Initiatives, SPARC BC – Email dated June 1, 2023 – Information Session for the Local Community Accessibility Grant Program	N
17.	D. Sharman, Community Relations Manager, Southern Interior, BC Hydro – Email dated June 2, 2023 – UBCM Convention 2023 Invitation	N
18.	S. Gregson, Spokesperson, Coalition of Child Care Advocates of BC - Request for UBCM Child Care Resolution	A

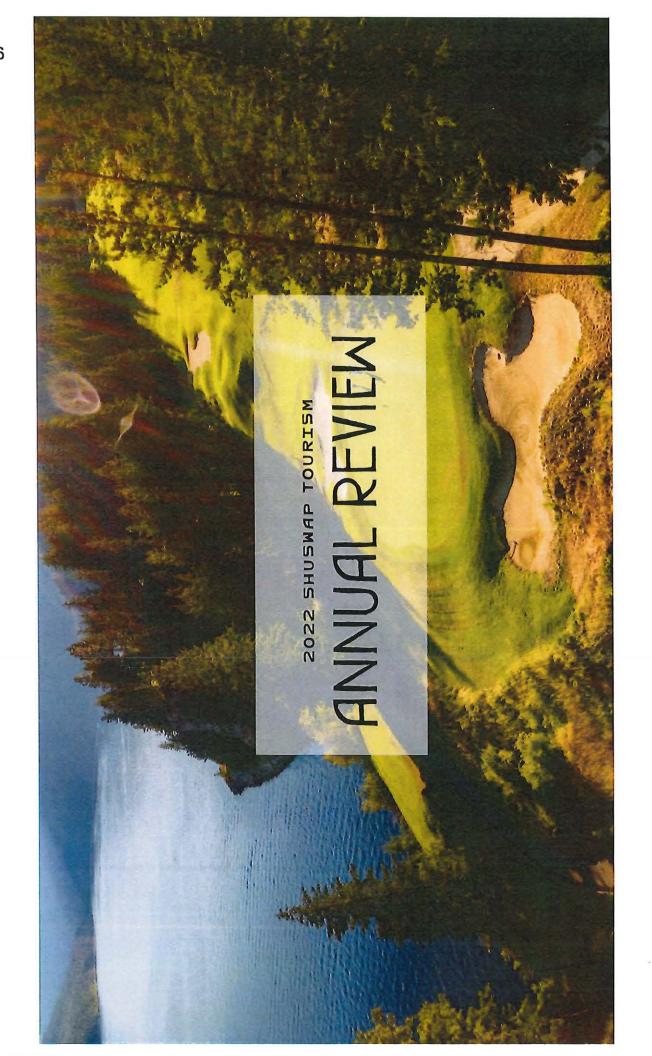
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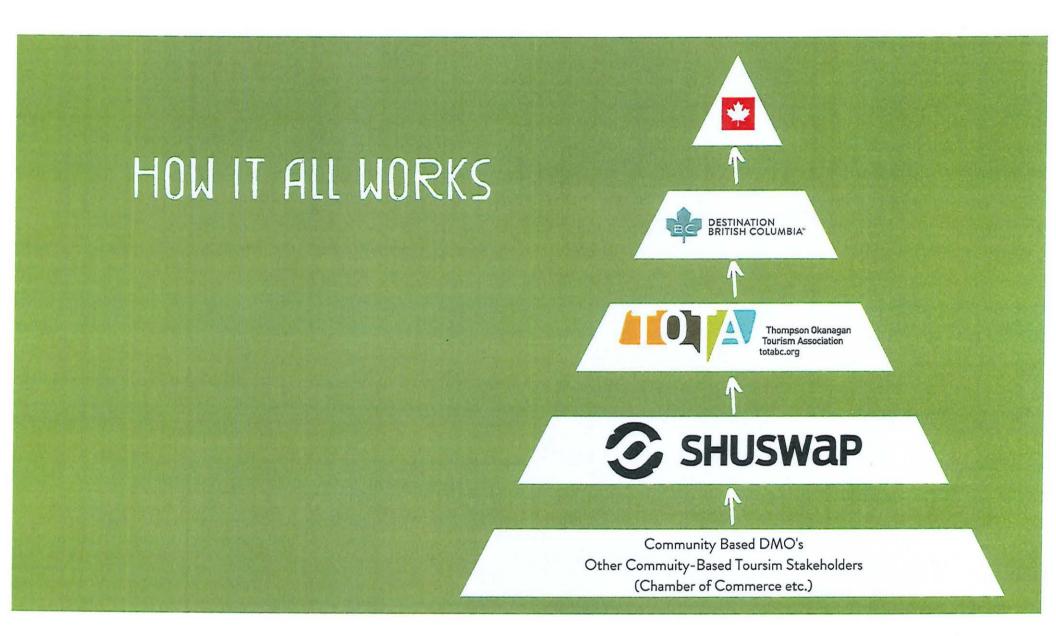
Item 14.1

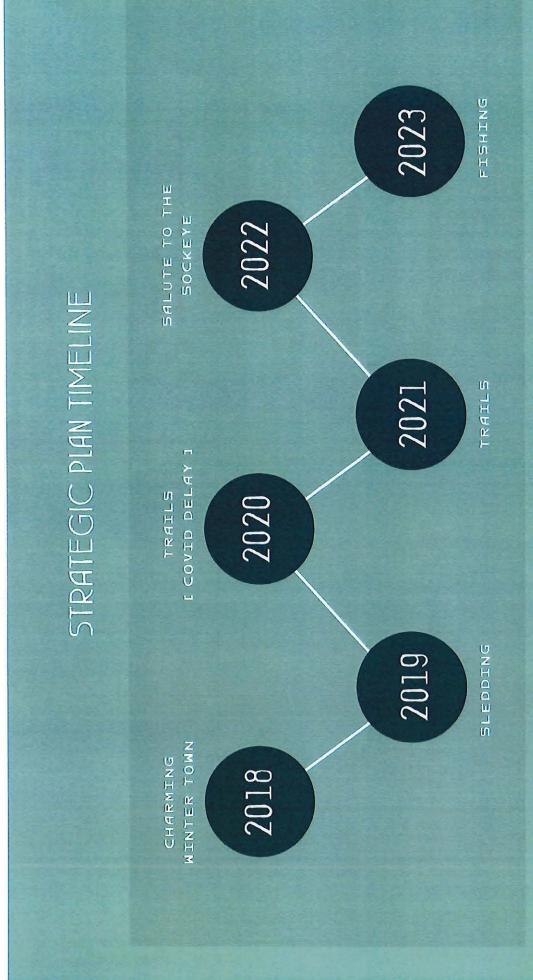
CITY OF SALMON ARM

Date: June 12, 2023

M. Matheson, Team Leader 2022 Shuswap Tourism Annual Review







MAJOR CAMPAIGNS

Adams River Sockeye Salmon Run

BC Ale Trail

Sled Sicamous Consortium

Get Into BC

Shuswap Golf Consortium



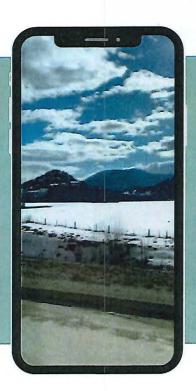
PROMOTIONAL ASSETS

Writing Series

Print Materials

Social Media

Photo Assets





SPECIAL PROJECTS

Tourism Week 2022

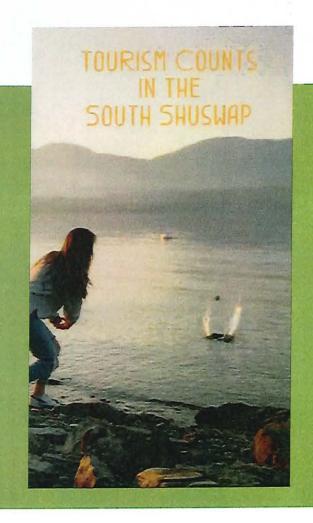
Alertable Partnership

Travel Media & Influencer Trip Planning

TOTA Uninterrupted







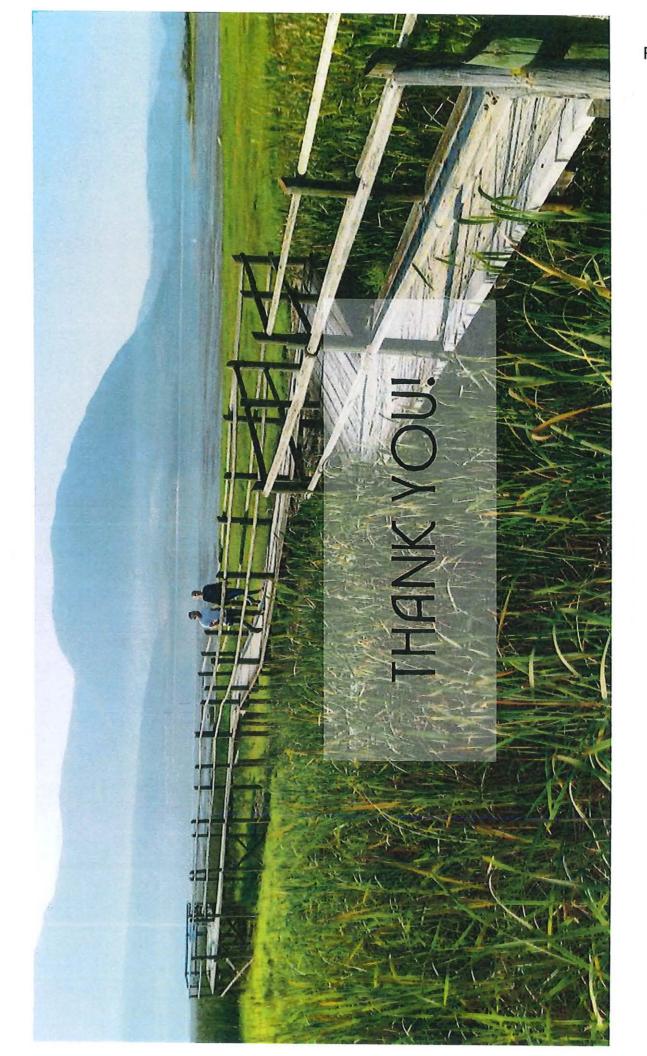
RESULTS & RECOGNITION



#49 Tourism Sentiment Index (TSI)
Top Canadian Destinations

PLATINUM Marcom Award for Salute to the Sockeye Video





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Item 14.2

CITY OF SALMON ARM

Date: June 12, 2023

Isha Matous-Gibbs, Urban Matters Poverty Reduction Grant



CITY OF SALMON ARM

Poverty Reduction, De-Stigmatization, and Awareness Campaign

May 2023

SALMONARM

urban **matters**





Acknowledgments

The City of Salmon Arm gratefully acknowledges the traditional territory of the Secwepemc people, with whom we share these lands and where this work was completed.

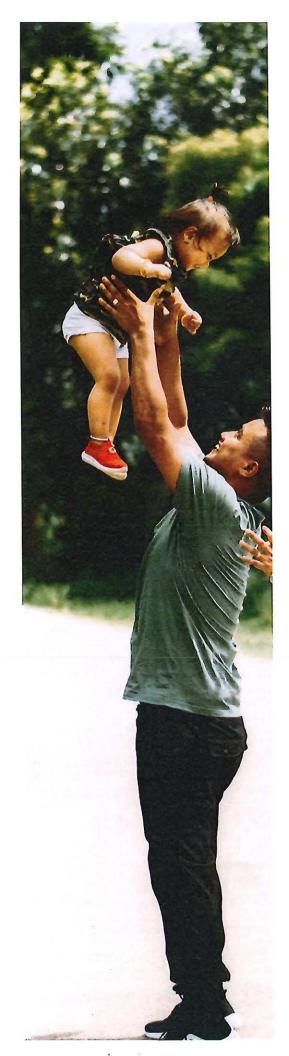
Special thank you to the Salmon Arm Observer, Canadian Mental Health Association Shuswap-Revelstoke, and Rise Up Indigenous Wellness Society for their support and partnership throughout this project.

This report was prepared by Urban Matters CCC Ltd. in collaboration with the City of Salmon Arm and the Social Impact Advisory Committee. Funding for this project was provided by the Union of BC Municipalities through a Poverty Reduction & Planning Grant.

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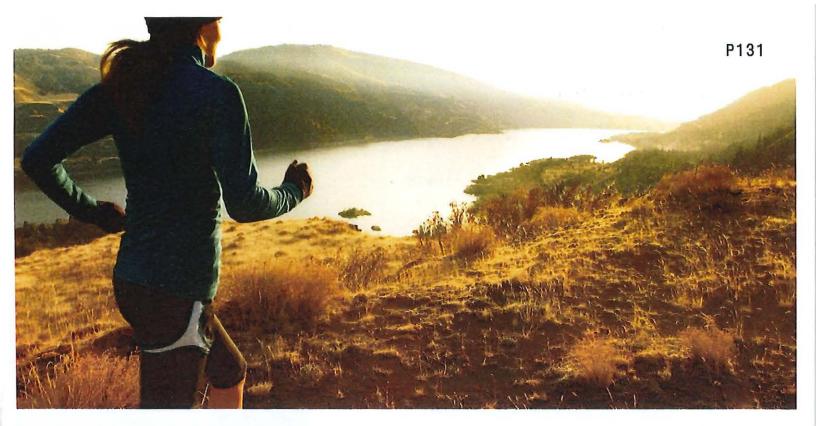


EXECUTIVE SUMMARY

Stigma towards people experiencing poverty has a negative impact on their ability to access services and seek support. The Salmon Arm Poverty Reduction, De-Stigmatization, and Awareness Campaign was developed to improve social outcomes in the community by increasing service awareness and reducing stigma. The goal was both to highlight the many community organizations who are ready to help as well as ensure that people feel safe accessing those services.

Originally, project partners proposed a social media or advertising campaign to share information about services and bust myths around poverty. Ultimately, project partners co-created a pilot-and-test approach where tactics relied more heavily on building relationships and engaging community members in important conversations about stigma. The resulting campaign was a by-Salmon Arm, for-Salmon Arm project. It became a collaborative effort of the City of Salmon Arm, Indigenous Rise Up, CMHA Shuswap-Revelstoke, the Social Impact Advisory Committee (SIAC), the Salmon Arm Observer, and the consultant team at Urban Matters CCC Ltd.

Over the course of four months, project partners came together to plan, develop, and promote content that showcased local services and organizations as well as the stories of everyday people who are experiencing poverty and stigma. Learning opportunities were also provided to the broader community in the form of workshops, where participants were able to deepen their understanding about the different factors of poverty and stigma.



Impact and Learnings

As a result, the campaign reached various important audience groups across the community. For example, tens of thousands of residents were reached through articles written in the Salmon Arm Observer. This is a testament to the power of telling a good story, but also the interest the community has in this topic. Engagement measurements show high levels of engagement with the articles, something that is difficult to achieve.

The community at large was also engaged through a workshop series. Though these workshops reached a smaller group of individuals, passion and engagement were high. A common question from participants was, "What can we do next?" Whether it was looking for ways to tell their story, or seeking places to volunteer or advocate, participants of the workshops and webinar were highly engaged and vested in the topic of anti-stigma. It is clear that there is a strong appetite for local initiatives that can help reduce poverty and improve community well-being among residents.

Additionally, dedicated anti-stigma workshops were held for people with lived and living experiences. These had a particularly deep impact. Participants reported feeling inspired and engaged. They expressed feeling seen, heard, valued – and even experiencing healing of some past trauma. The workshop provided a learning opportunity for individuals to understand their own experiences and begin to express them, sparking conversations that have continued to take place beyond the workshops. Coupled with learning and education, the empowerment of people with lived and living experience form two key aspects that lead to meaningful social change.

Considerations for Next Steps

Moving forward, the City of Salmon Arm and Social Impact Advisory Committee can continue to work with community agencies to promote services in the community and support anti-stigma efforts. This could look like:

- Continuing to promote services such as BC 211 to increase service awareness and track social service referrals
- Exploring ways to support the creation of a volunteer network, a made in Salmon Arm solution to connect community members with open volunteer positions
- Launching a project that extends the concept of using personal storytelling to bust myths and stigma about poverty
- Continuing to work with community partners to write and publish stories that address stigma as well as promote opportunities to get involved in community events and initiatives

In any future initiatives that the City chooses to pursue, one thing is clear: Salmon Arm has strong community partners and champions who are committed to creating positive social change. They bring the local knowledge, trust, and collaboration needed to meaningfully engage the community, and possess the ability to inspire people to take action. Working with trusted community partners also helps to ensure sustainable social change as strong and committed partnerships are important for maintaining momentum, sustaining initiatives beyond short-term fixes, and ultimately, creating a more inclusive community.

Campaign Reach at a Glance

Salmon Arm Observer Feature Articles:

- 7 articles written by local media
- 4 feature pages published in the Salmon Arm Observer
- 32,106 users reached online through Facebook

BC 211 Service Utilization During Campaign:

 23 total contacts between January and April 2023

Workshop and Webinar Participation:

- 5 learning workshops offered
- 69 unique individuals attended

"The City recognizes
that it can play a
valuable role in
convening different
parties to facilitate
solutions to complex
problems, although it
may not actually be
responsible for
providing services in
that area. Where
resources allow, the
City plans to continue
playing a role in this
way as needed."

– Social Wall-Being Roles and Responsibilities, City of Salmon Arm

Background

The City of Salmon Arm is a diverse community with a range of social, demographic, cultural, and economic groups. A wide network of social support exists for its community members and the city serves as a central hub of services for the Columbia Shuswap region. However, misconceptions about poverty and homelessness exist in the community, which adversely affect social well-being and belonging.

Tension continues to rise between members of the public and those who are experiencing homelessness. Stigma and hate against individuals living in poverty have become commonplace on social media. Frustrated by the visible signs of homelessness and poverty, community members have pushed for more action by the City of Salmon Arm to address growing social issues.

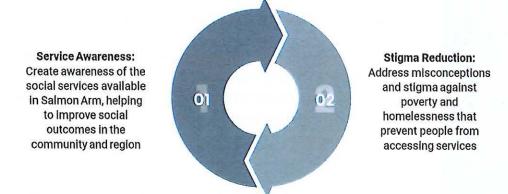
At the same time, local assessments show that about 13 percent of the population in Salmon Arm is living in poverty, earning a median income of \$17,527 compared to the community-wide median of \$48,987. A 2021 Social Impact Assessment identified "lack of knowledge of available services" as the top barrier to people living in poverty from accessing services, meaning many of those who need support from social-serving organizations don't know where and how to access the services they need.

There is a strong reluctance among those living in poverty to reach out and access services due to fear of stigma and discrimination. For example, clients may register for coupon programs at community organizations but don't use them due to feelings of stigma and shame. The Social Impact Advisory Committee (SIAC) also recognized that there are many among the community who have hidden experiences of poverty. Many people struggle with meeting their basic needs, especially among seniors, newcomers and immigrants, and low-income families, though they may not be experiencing visible signs of poverty such as homelessness.

Seeing the need to address stigma around poverty and increase awareness about community services, the City of Salmon Arm and SIAC applied, and subsequently received, funding from the Union of BC Municipalities through the Poverty Reduction Planning and Action Grants to create and implement a community-wide poverty reduction campaign. Following a competitive bid process, Urban Matters CCC Ltd., was the consultant team hired to support the launch of this campaign.

The Campaign

The Salmon Arm Poverty Reduction, De-Stigmatization, and Awareness Campaign was developed to improve social outcomes in the community through two pathways: increasing service awareness and reducing stigma. The goal was both to highlight the many community organizations who are ready to help as well as ensure that people feel safe accessing those services.



After discussions with the SIAC, the campaign shifted from an initial idea of launching a social media campaign to one that focused on partnerships and building capacity within the community. The approach of seeking deliberate partners to create content, spread the word, and recruit participants resulted in innovative and unique strategies. The campaign featured a series of articles in the local newspaper, the Salmon Arm Observer, and a series of workshops with current or potential community champions. The result was a pilot project that used various key tactics to achieve the project goals.

Service Awareness

This work was aimed towards community members who are experiencing stigma and hidden poverty. These are individuals or families who are not currently in crisis but do not have adequate income or support to consistently meet their basic needs. It was hoped that by sharing information about local services and stories of what poverty looks like across the community, people would be encouraged to reflect on their own needs and access the services they need.

Tactics included:

- 1. Publish a series of bi-weekly features to showcase the work and impact of local service providers in partnership with the Salmon Arm Observer.
- 2. Promotion of BC 211, a free and confidential service that helps connect people to community resources.

Stigma Reduction

This aspect of the campaign was directed towards groups who may have the ability to influence narratives in the community and spark action, thereby gradually reducing stigma. For example, people with lived and living experience hold firsthand knowledge and experience of poverty and stigma. They would be able to identify key topics for public-facing messaging and if able, share their personal stories.

Tactics included:

- 1. Facilitate workshops for people with lived and living experience to learn about stigma and feel empowered to deliver their own anti-stigma initiatives for the community.
- 2. Delivery an informational webinar for the general community to learn about the complex nature of poverty and the ongoing stigma that people experience.
- Deliver a dedicated workshop for community leaders and changemakers to gain a deeper understanding of poverty and reflect on how they may be able to better support those living in poverty through their everyday work and impact.

Campaign Timeline

2023	January	February	March	April
Update BC 211 Listings				
Promote BC 211 in Salmon Arm Observer				
Launch weekly features in Salmon Arm Observer				
Facilitate workshops for PWLLE				
Deliver community webinar and workshops				

Insights Gained

- Access to technology is a barrier for those experiencing poverty.
 Campaigns focused on reaching this target audience should utilize various platforms and both print and digital methods.
- » Social media comments show the community is generally receptive to grassroots, communityled solutions to address poverty. They are more likely to show distrust and frustration towards systems and institutions.
- » Content creation and social media management take time and effort. It is important to have a dedicated resource or partner who can play a central role in content creation, social media posting, and data collection.

CAMPAIGN DELIVERY

Storytelling in the Salmon Arm Observer

Stories are a powerful tool for communication. They can inspire and motivate us and help us make sense of the world around us. In this project, it was identified early on that storytelling would have an important role in addressing stigma and creating a sense of community. This led to a partnership with the Salmon Arm Observer, one of the community's main news media platforms.

In collaboration with the Observer's knowledgeable and engaged editorial team, a series of features were developed that focused on education and storytelling around poverty. For eight weeks, a feature page was included in the Observer on a biweekly basis. Each feature page contained profiles on local organizations and services as well as interviews with those who have lived or living experience with poverty, as well as an ad for BC 211 services (see next section).

Each feature page was dedicated to a specific topic. In total, there were four feature topics:

- 1. Poverty and stigma in Salmon Arm
- 2. Food security
- 3. Children and youth
- 4. Seniors



Online Reach

Collaboration and partnership with the Salmon Arm Observer resulted in meaningful outcomes and insights. Originally, four articles were planned for the biweekly feature pages. In total, seven articles were written by local journalist Martha Wickett with support from the Observer's editorial and publishing team.

After the articles were published in the print edition, they were posted on the Observer's Facebook page. In total, seven social media posts achieved a reach of 32,106 with an average post engagement rate of 9.5 percent. (Industry experts note that a good social media engagement rate on Facebook posts ranges between 1 to 5 percent, depending on the target audience, industry, and location.)¹

Definitions:

Comment – a response that is often provided as an answer or reaction to a blog post or message on a social network.

Engagement Rate – a metric used to describe the amount of interaction (e.g., likes, shares, comments) that a piece of content receives.

Reach – the number of people who saw a particular Facebook post from your Page.

Online Engagement

Four out of the seven articles garnered a total of 29 comments. Commentors noted that they found the stories and information helpful. Some engaged in further discussion to share insights and offer ideas for support.

While many praised the work and effort of individuals and community organizations, negative comments were directed towards systemic issues within public institutions. For example, community members noted difficulties in finding appropriate medical care and the lack of emergency physicians in the community. There were also comments regarding a lack of "budget" for seniors as well as limited housing options for seniors. One commentor also noted a perceived lack of action and intervention by City Council to provide an emergency shelter for those experiencing homelessness.

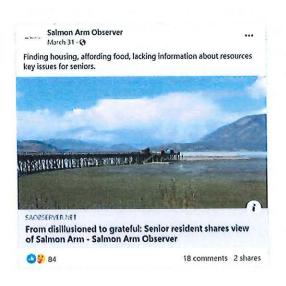
Though the quantity of comments is limited (29 in total), they indicated that people are generally receptive to community-led solutions and efforts to address poverty and are more likely to show frustration towards systems and institutions.

¹Sehl, Katie, and Shannon Tien. 2019. "6 Ways to Calculate Engagement Rate on Social Media." Hootsuite Social Media Management. April 10, 2019. https://blog.hootsuite.com/calculate-engagement-rate/.

Fortunately, there were no indications of hateful and stigmatizing language towards individuals experiencing poverty in any of the publicly visible comments related to the articles. It was originally noted by member organizations of the Social Impact Advisory Committee that hateful comments can be commonly found on local community pages. Throughout this campaign, project partners did not report receiving hateful comments and noted only positive reactions from their network and the community.

Medium of Communication

This service awareness campaign also leveraged both print news media as well as digital social media channels. Using both methods of communication meant community members across Salmon Arm were able to engage with the stories and information in multiple ways. During initial discussions with the SIAC, it was noted that many of those who experience poverty often lack digital literacy and access to technology. Therefore, it would be best to find alternative ways of sharing the content.



Leveraging Community Partnerships

Another added benefit of collaborating with the Salmon Arm Observer was having one central voice in the community to collect and share stories. The SIAC identified that social media content creation and posting requires time and effort to monitor consistently and effectively. Pursuing a purely digital campaign through social media, which was originally considered, meant project stakeholders and partners would need to be actively involved in sharing content and monitoring engagement.

"Such great information. Thank you for sharing, many families can benefit from this."

Facebook comment from Salmon Arm community member

Some stakeholders and partners did not have existing or active social media accounts, which would limit reach. This is due to the nature of social media where amplification is crucial.

Though a social media campaign would have the potential to reach a wide audience, especially through paid promotions, it would require much more coordination and effort on the part of the project stakeholders and partners. It also takes a significant amount of time to establish an engaged following. Concerns about reaching only those who were already following social service organizations made this a less appealing option (i.e., preaching to the choir). Therefore, it was determined that digital communications would be a less effective method for reaching campaign goals. This decision led to a partnership with the Salmon Arm Observer.

One consideration in choosing communication channels and platforms for promotion is the ability to collect metrics and data. The Salmon Arm Observer was able to collect social media metrics through its Facebook page, which were crucial in understanding the reach and impact of the stories created. This was an above and beyond service that they provided for this campaign. It is recommended that project partners in campaigns such as this have the ability and capacity to collect data and measurements to help inform initiatives.

Ultimately, collaboration with the Salmon Arm Observer strengthened relationships between the City of Salmon Arm, the SIAC, and the local media. Together, these three entities hold strong influence in the community and can continue to champion local initiatives and shape conversations around poverty.

Data and Metrics

Week 1 – February 15

Poverty and Stigma in Salmon Arm			
Article	Interviewees	Analytics	Resources Mentioned
'Poverty not a character flaw': Removing stigma, highlighting services in Salmon Arm crucial	 Councilor Louise Wallace Richmond, City of Salmon Arm Erin Jackson, City of Salmon Arm Rev. Jenny Carter, First United Church 	Facebook Reach: 498 users Post engagement: 58 Engagement rate: 11.6%	 Food with Friends Initiative, First United Church Shuswap Family Resource and Referral Society Shuswap Immigrant Services Society CMHA Shuswap- Revelstoke Service Navigation Drop-in NeighbourLink Shuswap South Shuswap Rides

Week 2 - March 1

Food Security			
Article	Interviewees	Analytics	Resources Mentioned
Stretching dollars in Salmon Arm: 'I never missed a meal and my son never missed a meal'	> Nan Gray, community member	Facebook Reach: 16,236 users Post engagement: 1,987 Engagement rate: 12.2%	 Good Food Box The Market at the Lighthouse Rise Up Indigenous Wellness Second Harvest Food Bank
Shuswap Food Action: Shuswap has capacity	Serena Caner,Shuswap FoodAction Society	Facebook Reach: 766 users	 Shuswap Food Action Society

to feed everyone in region		Post engagement:69Engagement rate:9%	 Shuswap Children's Association Indigenous food sovereignty
Access to food crucial to Salmon Arm society's work on Indigenous wellness	 Launa Payne, Rise Up Indigenous Wellness Sherrelle Anderson, Rise Up Indigenous Wellness 	Facebook Reach: 451 users Post engagement: 22 Engagement rate: 4.8%	
Solving food security and sovereignty not a solo pursuit for Adams Lake band	 Mike Moyer, Adams Lake Band 	Facebook Reach: 434 users Post engagement: 19 Engagement rate: 4.4%	

Week 3 - March 16

	Chilldren gr	id Youth:	
Article	Interviewees	Analytics	Resources Mentioned
'Everyone's affected': Rising prices add to stress for Shuswap	> Tim Gibson, Factorial Shuswap Children's Association >	cebook Reach: 854 users	Shuswap Family Centre
<u>families</u>	> Christine Ondang, Child Care >	118	 SAFE Society & Transition House
	Resource & Referral	13.8%	 Shuswap Family Resource and Referral Society
	 Tracey Morland, Project Affinity and Respite Care 		ShuswapChildren's

 Rachel Richardson, Supported Child 		Association
Development	>	Shuswap Association of
Kim Sinclair, AspiralYouth PartnersAssociation		Community Living

Week 4 - March 29

Seniors			
Article	Interviewees	Analytics	Resources Mentioned
From disillusioned to grateful: Senior resident shares view of Salmon Arm	 Sean Sands, community member Patti Thurston, Shuswap Family Centre Monica Kriese, Salmon Arm and Area Community Response Network Jane Shirley, SAFE Society Katherine Kreller, Seniors' Resource Centre 	Facebook Reach: 12,867 users Post engagement: 1,383 Engagement rate: 10.7%	 Seniors Resource Centre Seniors Mental Health (Interior Health) Seniors Abuse and Information Line (SAIL) Shuswap Better at Home 5th Avenue 50 Plus Seniors' Activity Centre

Out of all the articles written and posted by the Salmon Arm Observer, this article received the most comments (18 total) on Facebook.

Promotion of BC 211

Formally launched in 2010, BC 211 is a centralized resource for a range of community, social, and government services. Its origins can be traced back to the "Red Book," a physical directory containing a range of community, social, and government services that began publication in 1953. The service has run since then, with expansions to other non-emergency human services such as crisis and information lines. In 2020, the service expanded to serve all of British Columbia. In 2022, the service was integrated with United Way British Columbia.

Currently, BC 211 offers three distinct services:

- 1. **Information and Referral Helpline** Provides 24/7, free, and confidential support through phone, text, email, and chat in more than 150 languages.
- Community Resource Listings Maintains a database of more than 15,500 lists for vital
 community programs and services, which are monitored and updated to reflect the most
 current information.
- 3. Data Analysis Collects and analyzes data to determine the top needs as well as unmet needs across BC.

As a centralized resource for British Columbians, BC 211 was consistently promoted through the feature pages in the Salmon Arm Observer. A quarter-page ad was included alongside articles and service listings.









Insights Gained

- » Providing an up-todate, informative, and easy to use resource guide or service directory takes time and capacity. There is an opportunity to explore solutions for updating Salmon Arm listings regularly.
- » Exposure to BC 211 ads were limited to the print publication of the Salmon Arm Observer. Promotion can be expanded through other methods, such as posters and websites at various locations across the community, to broaden reach.
- » BC 211 continually seeks to improve its data collection methods. This data can be used by the City of Salmon Arm and the SIAC to identify emerging needs in the community.

Though there are a few existing resources and guides that contain a list of local services, promoting BC 211 was chosen for several reasons:

- It can serve as an initial point of contact for those who are experiencing hidden and/or chronic poverty but are not necessarily in crisis, a key target audience for the project.
- As a free, confidential, and multi-platform service, BC 211 offers an accessible way to explore a range of services with less fear of stigma and judgment compared to accessing a local, in-person service.
- As a provincially funded service with robust staffing and capacity, BC 211 provides a sustainable way of ensuring information about available supports and services that can be updated easily and consistently.
- It also provides dedicated marketing support to print promotional materials as well as develop graphics such as the ad placed in the Observer.

Data about service requests to BC 211 (below) shows a steady increase in its utilization in Salmon Arm since it first launched provincially in 2018 Statistics from the campaign duration show that requests for service had no significant increase compared to requests made in 2022. Therefore, we can likely infer that the newspaper advertisements did not result in any increase in usage of the BC 211 service. However, as the data for 2023 is still only the first four months, and we do not have the monthly breakdown of 2022 to compare high call rates, there may be a change in usage that is not yet detected.

Additionally, though the reach of the online articles was high, the BC 211 ad did not always appear next to the articles as online layouts were different than print layouts. This means not everyone who viewed the online articles would have viewed the BC 211 advertisement.

Data and Metrics

Requests for Service from BC 211 Originating in Salmon Arm – January to April 2023

Jan 1st to Apr 24th		
Month Total Contacts		
Jan-23	9	
Feb-23	6	
Mar-23	5	
Apr-23	3	
Total	23	

Year	Individual	Service Provider	Affected 3rd Party
Jan-23	8	1	
Feb-23	5	1	
Mar-23	4		1
Apr-23	3		
Total	20	2	1

Requests for Service from BC 211 Originating in Salmon Arm – By year

Year	Total Contacts to 211
2018	23
2019	24
2020	67
2021	85
2022	88
2023 (January to April)	23
Total	296

Year	Individual	Service Provider	Affected 3rd Party
2018	16	6	1
2019	19	2	3
2020	58	2	7
2021	71	4	10
2022	72	6	10
2023 (January to April)	20	2	1
Total	244	21	31

Anti-Stigma Education

In conjunction with increasing awareness around available social services, the campaign also included opportunities for the community to participate in anti-stigma education. Three anti-stigma workshops were held, tailored to three distinct target audiences.

Lived Experience Workshops

The first set of workshops were tailored for people with lived and living experience of poverty. These three-hour, in-person sessions focused on dialogue and facilitated conversation about participants' personal experiences as well as approaches to de-stigmatizing poverty. They were designed to include exercises to support participants in building the skills to share their personal stories.

What resulted was a robust discussion about stigma and how it affects individuals. The exercises and workbook tools prepared for the workshop were not covered within the time allotted and participants appreciated the opportunity to take the workbook home and complete it independently.

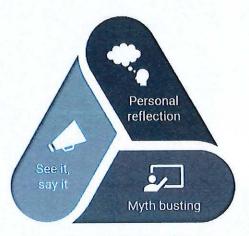
Part of the approach to these workshops was to embrace fluidity. Facilitators prepared materials of possible interest and ensured there was material to teach, to reflect on, and to support participants to explore their own stories. However, each workshop was different. The content focus became tailored to each group. The facilitators did not cut off the conversation to keep the workshop on schedule, and dialogue meandered through the topics.

This conversational style was important to ensure that the workshops stayed engaging, shifted towards each group's curiosity and knowledge level, and gave room to examine challenging topics. This approach is part of a trauma-informed approach that honors and empowers participants to be active directors of their own learning.



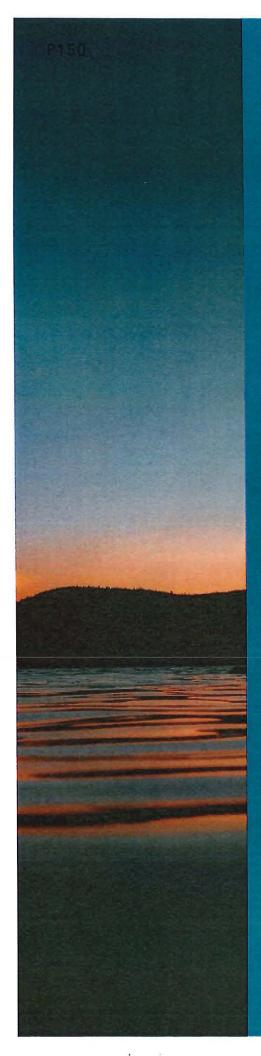
Community Webinar and Stakeholder Workshops

Next, two virtual sessions were conducted: an informative webinar for the community at large as well as a workshop for community champions and invited stakeholders. Each of the virtual sessions were 1.5 hours long and were more informative than conversational. They were designed to cover the same content about stigma and its impacts as the Lived Experience Workshops but emphasized addressing stigma through person-first language, using destigmatizing language, and addressing internal biases and stigmas.



How to address stigma

Participants, for the most part, expressed appreciation and enjoyed the workshops. Some noted that they were glad this was being discussed as it was "sorely needed." Participants appreciated the personal stories shared by facilitators. One concern raised by participants was that the message needed to be spread further to people who were not aware of what stigma is and how it affects people. Participants also wanted to be directed to actions they could take outside of their own attitudes and personal interactions. They were looking for places to volunteer, ways to advocate, or other active methods of continuing to break down stigma.



Insights Gained

Participants in all three workshops were highly engaged and reported learning valuable information. Participants with lived experience were particularly enthusiastic about the workshops and shared that they felt seen, heard, and understood. Some described it as healing to participate. Several individuals said they didn't know that other people were experiencing the same things or even that their experiences were being influenced by stigma, and that learning in a safe space made them feel better. The Lived Experience workshop was able to support people in seeing themselves as advocates rather than victims or targets.

Further insights include:

- » Use a trauma-informed approach to engage people with lived and living experience. This means planning ways to make engagement opportunities a safe space for sharing and providing options for follow-up support.
- » Collaborative relationships with community partners enhances the recruitment process. Local groups and organizations have built the connection and trust needed to meaningfully engage individuals. Take the time to clarify roles and commitments regularly.
- » Plan to promote engagement opportunities through various platforms and methods to ensure diverse audience groups are reached.
- » Consider and experiment with different formats for educational opportunities (e.g., full-day workshop versus two half-day workshops, self-directed options, etc.) to ensure adequate time is available to cover content and questions.
- » Virtual sessions require active conversation management. Use an array of conversation tools (e.g., Question and Answer feature, mute function, etc.) to guide the discussion and keep it on track.
- » Help participants connect their learning to action by preparing resources and opportunities and guiding them towards the next step.

WHAT WORKED WELL

Trauma-Informed Approach

Trauma-informed approaches to facilitation include recognizing that the impacts of trauma are widespread and have direct impacts on individuals and communities. Stigma towards poverty can cause trauma directly and indirectly through negative experiences such as rejection, repeatedly telling one's story through a negative lens to secure resources and service access, or perpetuating poverty due to a lack of awareness of services which could disrupt the cycle.

As part of this campaign, all workshops were designed with a trauma-informed approach.

- All workshops were prefaced with an introduction that included statements on personal safety and the availability of support during the workshop. Facilitators articulated that the topic can be highly emotional, outlined ways in which facilitators could support participants, and referenced resources for further support if needed.
- Facilitators "checked expectations at the door" to allow workshops to flow in the best way
 for each group. Taking a flexible approach to facilitate allowed participants in the Lived
 Experience workshops to direct their own experiences. Insights and experiences were
 encouraged, and participants shared freely.
- A "circle guardian" helped ensure people had support at any time during the workshop if desired. The guardian was a second facilitator who had the stated task of taking care of the workshop participants. They invited participants to indicate if they needed support and also had the power to pause the conversation at any point. If so, the guardian would direct the whole group to do a grounding activity (three deep breaths) before continuing the workshop. The guardian could check in on participants, keep time, add insight, and ensure the flow of the workshop. Having an option for participants to ask for some support during workshop without disrupting it is a helpful tool.

"The workshop allowed me to feel what I needed to in a healthy way."

Lived Experience workshop participant

Partnering with organizations for the Lived Experience workshops ensured that
participants were invited by a trusted person who was also available for follow-up if
needed. This structure ensures that existing trusted relationships are leveraged for the
benefit of participants.

Facilitators with Lived and Living Experience

It's important to consider the knowledge and presence of the workshop facilitator as the leader and tone setter for anti-stigma education. In this campaign, the workshop facilitator possessed lived experience of poverty and was able to draw on that experience during the webinar and workshops. By sharing personal stories throughout the classes, they were able to provide insights and relate the subject matter to real-life examples.

Timely and Relevant Content

Participants said repeatedly that the information and workshops were timely given other events in the community. An increase in visible homelessness and limits to available services for support has been a big topic in the community. This has brought out stigmas and fears on social media and other platforms. Participants were appreciative of the conversation. Some shared that they felt they had new tools to talk about difficult subjects, like homelessness.

"Thank you for the perspective and information. It really does outline the issues around stigma and barriers to anyone attempting to seek help."

Community webinar participant

OPPORTUNTIES FOR IMPROVEMENT

Promotion and Recruitment of Workshop Participants

Promotion for the community workshops proved more challenging than expected. Though recruitment for the Lived Experience workshops was successful, it was due to the efforts of partner organizations to promote and recruit participants. They recruited from within their own programs and contacts and as a result, were able to fill workshops and reach the desired number of participants.

The initial intention was that more project partners would promote the workshops and recruit people with lived experiences. While materials for this promotion were provided, it was found that posters were not effective for recruitment, or that recruitment through word of mouth, invitation, sharing with clients, etc. was not happening. Similarly, the majority of participants in the webinar and workshop were sourced through email invitation. Promotion through the City's website did result in many attendees for the webinar.

Recruitment efforts require energy and community champions to spread the word, share the event, and personally invite people. In the future, it would be best to clarify roles for promotion and ensure that project partners know how to promote and when to do so. It would be helpful to have dedicated champions of promotion and recruitment and clarify that commitment. Materials need to be provided well in advance alongside an agreed upon promotion strategy with roles.

Content and Conversation Management

The Lived Experience workshops were not allocated adequate time to cover all of the prepared material. As a new workshop, more information was included than there was time to present. In the future, it would be recommended to extend the workshop into either a full day or two half-day events to give space for action-oriented planning and discussion. Participants of all workshops were eager to talk about solutions but there was not enough time for this.

Alternatively, a pivot in future workshops to emphasize the healing nature of understanding stigma could replace some of the content on storytelling. The individual workbook activities could be discussed with interested participants in a follow-up workshop. Participant reflections could then become part of a group or individual storytelling exercise that creates sharable materials. For virtual sessions, it's important to have proactive conversation management and be prepared to redirect conversation when needed. In this iteration, participants had the option to unmute.

However, conversations about complex social issues can be extremely personal and fraught with emotion, sometimes leading to sidetracks in conversation. In the future, using the Question-and-Answer function instead of the chat function may be more effective to keep conversations on track.

Prepare a Call to Action

Participants in all workshops were keen to know how to take action after the workshops. While facilitators provided Lived Experience participants with materials and ideas around personal storytelling and resources, participants wanted more sustained actions. The question of "what's next?" arose at every event. This speaks to the eager and willing community of people in Salmon Arm who want to know how to improve the situation and support their community.

In the future, it would be good to consider facilitating these workshops in partnership with an organization or group that is working to do sustained anti-stigma work, or that is looking for volunteers. This would help give participants a place or path to channel their energy and actions after gaining more knowledge about poverty and stigma. These workshops would lend themselves well as an introduction to anti-stigma for volunteers, or as the first of a multi-part series that helps participants create their own content, such as a zine, social media page, or video.

Data and Metrics

Attendance and Community Participation

Date	Event	Participants
March 1	Lived Experience Workshop with Rise Up	6
March 2	Lived Experience Workshop with CMHA	9
March 3	Lived Experience Workshop with CMHA	14
April 1	Community webinar over Zoom (virtual)	20
April 3	Stakeholder workshop over Zoom (virtual)	10
Total unique individuals		69

Final Reflections and Recommendations

The Salmon Arm Poverty Reduction, De-Stigmatization, and Awareness Campaign helped improve social outcomes in several ways:

- 1. Facilitated healing and empowerment of individuals with lived experience by incorporating and elevating their voices in campaign activities.
- 2. Elevated the knowledge and voices of those with lived experience to promote empathy, community building, and personal reflection around poverty.
- Provided community members with the knowledge they need to better address prejudice and stigma in their daily lives and become better allies to those experiencing poverty.
- 4. Leveraged existing resources such as the Salmon Arm Observer and helped build on the work of skilled partners, improving the system of support in the community rather than adding complexity.
- 5. Strengthened the relationships between the City of Salmon Arm, the Social Impact Advisory Committee, and the Salmon Arm Observer who can continue to play key roles in shaping community narratives and advocacy.
- 6. Increased access to and availability of information about resources by promoting local services in the Salon Arm Observer, sharing information through articles about social serving organizations, and promoting BC 211.

The anti-stigma workshops for people with lived and living experiences had a deep impact. Participants were inspired and engaged. One participant came to the workshops twice, brought a friend the second time, and attended the public webinar. She reported that these workshops have inspired her to find her voice and become a champion. Another participant became an active volunteer at one of the partner organizations, helping to expand programming. We are told that she felt this was important because of her experience at the workshop. Conversations amongst almost all participants have continued between each other and with the partner organizations.

The campaign also tested new ways to share information about community resources. Multiple methods of communications and engagement were used to distribute information and engage the community in dialogue, including print media, social media, advertisements, and both virtual and in-person workshops. As a result, tens of thousands of residents in Salmon Arm were reached through the articles. For future projects or promotions, a multi-pronged approach seems to be a viable way to spread information in Salmon Arm.

Considerations to Address Gaps

Throughout this project three main gaps were observed that affected the outcomes of the project. While the project was successful overall, addressing these three gaps will:

- 1. Help continue and build on the success of this project.
- 2. Strengthen community preparedness to expand on this project and anti-stigma initiatives in general.
- 3. Continue to build awareness of services.
- 4. Continue to build connections, relationships, and skills of residents to support each other and their community.

Establish a Community Volunteer Organization

During the workshop series, a common comment or question from participants was, "What can we do next?" Whether it was looking for ways to tell their story, or seeking place to volunteer or advocate, participants of the workshops and webinar were highly engaged and vested in the topic of anti-stigma. There is a strong appetite for projects or tasks that can help reduce poverty and improve community wellbeing amongst Salmon Arm Residents.

However, knowing where to direct people was a challenge. There are many community organizations in the community, but their need for volunteers varies. Recruiting and training volunteers can put pressure on organizational capacity, and applying to multiple organizations to find the right fit for a volunteer can be draining on the person wishing to offer their time and skills. Finding the best use of volunteer time takes thoughtful coordination and people who can manage application, intake, training, skills assessment, and assignment for volunteers. Similarly, that person(s) can support organizations in identifying what roles they can ask for volunteer support with, determine the scope of the roles, and assist with recruitment.



February 2023

SHUSWAP SURVIVAL GUIDE

If you would like help navigating services contact

CMHA Service Navigator:

Denise Butler 250-832-8477 X102 Or email: denise.butler@cmha.bc.ca

Complied by: CMHA Shuswap-Revelstoke 433 Hudson Ave N.E. Box 3275 Salmon Arm, BC V1E 4S1 Tel: 250-832-8477 Fax: 250-832-8410

www.shuswap-revelstoke.cmha.bc.ca www.facebook.com/CMHAshuswaprevelstoke/



Canadian Mental Health Association Shuswap-Revelstoke Mental health for all

Please note that inclusion of an organization does not indicate its endorsement by CMHA, nor does its exclusion imply lack of approval.

Contact CMHA to update any changes of service.

Salmon Arm currently does not have a volunteer coordination or volunteer bureau program outside of singular organizations. Given the expression of a desire to help, even if 50 percent of workshop participants volunteered for even four to eight each month, that is 34 volunteers providing between 136 and 272 hours of community support each month!

Enhance and Promote BC 211

Providing an up-to-date, informative, and easy to use resource guide or service directory remains a challenge. Locally, the CMHA produces a community services guide. This brochure is distributed by CMHA and provided online. Peers at CHMA Shuswap-Revelstoke took the lead on editing, researching, and formatting the guide. It includes resources for the Shuswap area related to medical services, food security, community supports, government services, Indigenous community supports, legal resources, municipal services, crisis support, mental health and substance use, transportation, employment, libraries, housing, and access to basic needs (like hygiene).

The ongoing challenge with print resources such as this guide is ensuring it reaches the right audience. Presently the guide is shared with agencies and online. Another challenge is that printed guides are static, capturing the resources at a moment of time rather than being able to add updates regularly. They take a lot of work to produce and distribute. These are important resources for community, though, and distribution can be supported by efforts from the SIAC and other agencies to ensure the information is printed and displayed in as many places as possible.

Alternatively, there is BC 211. However, any directory is only as good as the information provided. It is still under-utilized, according to statistics collected to date. This service utilization can be improved by:

- Increased promotion to a broader audience Other promotional means may help, such as
 flyers in grocery stores, recreation centers, or other areas where a wide cross-section of
 people may be exposed to them, or online promotion.
- Increased participation by local services Local services have the option of updating their listings as regularly as they like via email. Keeping up to date on listings requires capacity (such as an assigned staff person) but can help the public be aware of services.
- 3. Further work with BC 211 to support promotion and listing updates This is still a relatively new service. Communication with BC 211 indicates that there is a strong desire to make this service relevant for all BC residents. The program's early origins in the Lower Mainland mean that their historical data and tracking originate from larger metropolitan areas. Adapting this service to serve smaller communities will take time. There may be opportunities to partner together and collaborate to find solutions for promotion in this new context. BC 211 is a funded program that may be able to come with resources for this type of work.



Increasing the Availability of Peer Supports

Peer driven programming is limited in availability in Salmon Arm. CMHA Learning Studios offers peer support workers and a variety of programming, and other organizations offer a range of programs where peers with shared experiences can meet and connect. However, during this campaign, no peer-led and facilitated organization or group was identified. Peer voices (those of people with lived and living experience of a subject or situation) can offer support, guidance, and unique perspectives to the community that help identify barriers and remove obstacles for people.

Peer programs could include but are not limited to:

- Peer navigator programs for accessing services
- Peer advocacy groups
- Peer support groups

Considerations for Next Steps

The City of Salmon Arm and the SIAC have identified themselves as convenors in the community related to social well-being. The responsibilities connected to this role and for continued momentum with this anti-stigma work include supporting the community through being a facilitator and communicator. Moving forward, the City of Salmon Arm and SIAC can continue to work with community agencies to promote services in the community and support anti-stigma efforts. In support of this role, the following opportunities are offered for consideration:

Promoting and Tracking Social Service Referrals

- The community can continue BC 211 promotion through the distribution of flyers or
 posters, available from BC 211. Posting an advertisement for their services on the City's
 and SIAC members' websites would help enhance visibility of the resource in the
 community.
- BC 211 collects data on the kinds of services that are requested, and referrals made. This
 information could support the SIAC in identifying emerging needs in the community. There
 is also an opportunity for the Committee to help share information with service providers
 on how to update their information and maintain accuracy on BC 211 as their services may
 change periodically.

Building on Momentum in the Community

- Now that this workshop has been created it can be replicated. A future project may be to
 extend the Stigma Busting Through Storytelling workshop concept to include writing
 workshops and perhaps publication of those stories. Some communities have produced
 online video content or other social media spaces for sharing lived experience stories.
- The Salmon Arm Observer is interested in continuing to write and publish stories that help reduce stigma on community issues. As a resource and partner, community serving organizations can reach out to the editorial team with stories, events, or opportunities for the community to get involved and keep the conversation going.
- Explore supporting a community partner or organization's volunteer network. A Salmon
 Arm volunteer coordination organization could help to connect interested community
 members with volunteer positions. This kind of structure can also increase the capacity of
 organizations to host volunteers by supporting with training, screening, and intake
 processes. Building a network of volunteers who have some training and support to take
 on roles in the community would help to both build organizational capacity and assist
 caring community members to find ways to contribute.

Overall, this pilot-and-test campaign has surfaced several key learnings that can be used for future initiatives and campaigns. By collecting data and embracing iterative improvements, the City of Salmon Arm, the SIAC, and its partner can make informed decisions that ultimately lead to more effective and successful implementations.

Item 19.1

CITY OF SALMON ARM

Date: June 12, 2023

The following motion was released from the In-Camera Council Meeting of May 23, 2023:

0041-2023 (ic)

THAT: Council authorize the request from the Salmon Arm Folk Music Society to construct improvements on the City owned property located at $541\,3^{rd}$ Street SW subject to building permit approval.

CARRIED UNANIMOUSLY

TEL 250.833.4096 FAX 250.833.4097 EMAIL info@rootsandblues.ca
WEB rootsandblues.ca

MAILING Box 21, Salmon Arm, BC V1E 4N2
LOCATION 541-3rd St SW, Salmon Arm, BC V1E 1S9

May 15, 2023

City of Salmon Arm Box 40 100 - 30 Street SE Salmon Arm, BC V1E 4N2

Attn. Erin Jackson, Chief Administrative Officer RE: Permission to build projects

Dear Erin:

The Salmon Arm Folk Music Society is seeking approval from the City to pursue two construction projects on the City owned property located on 541 3rd St SW, Salmon Arm.

The SAFMS intention with the City's support is to construct:

- 1. A new detached storage/works building;
- 2. Add 7 rooms (4 top and 3 bottom floor) to the building on the property currently used for an office.

Attached to this message you will find the preliminary building plans for the two construction projects.

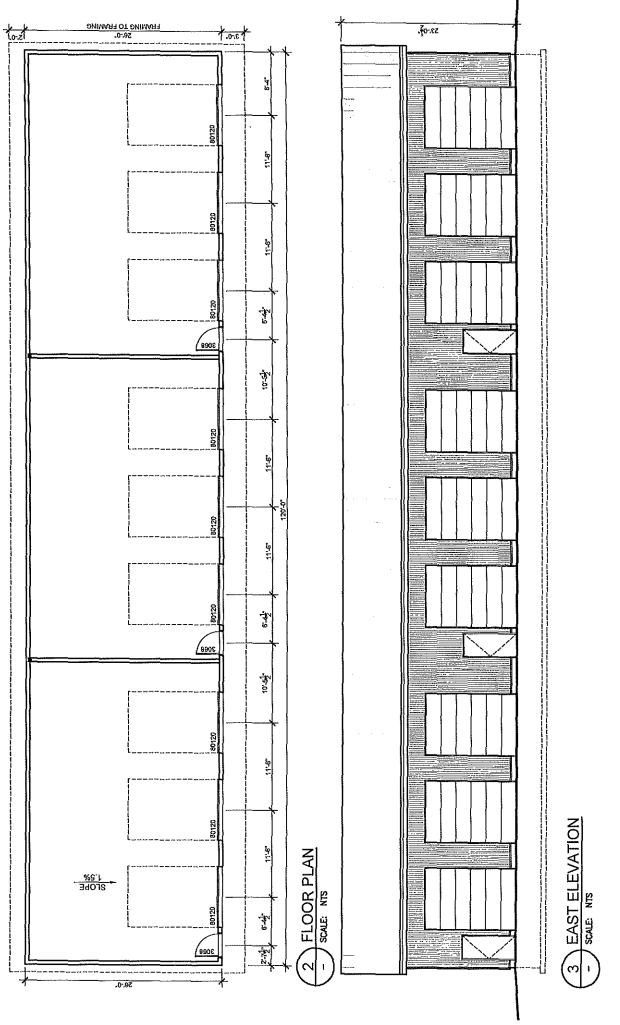
In the past seven years, SAFMS has invested to improve the property and we plan to spend up to \$225,000 internal funds on this project. Additional funding (\$221,250) to complete the project has been generously provided by the BC Arts Infrastructure grant program. The Provincial funding requires the project to be completed by the end of 2025.

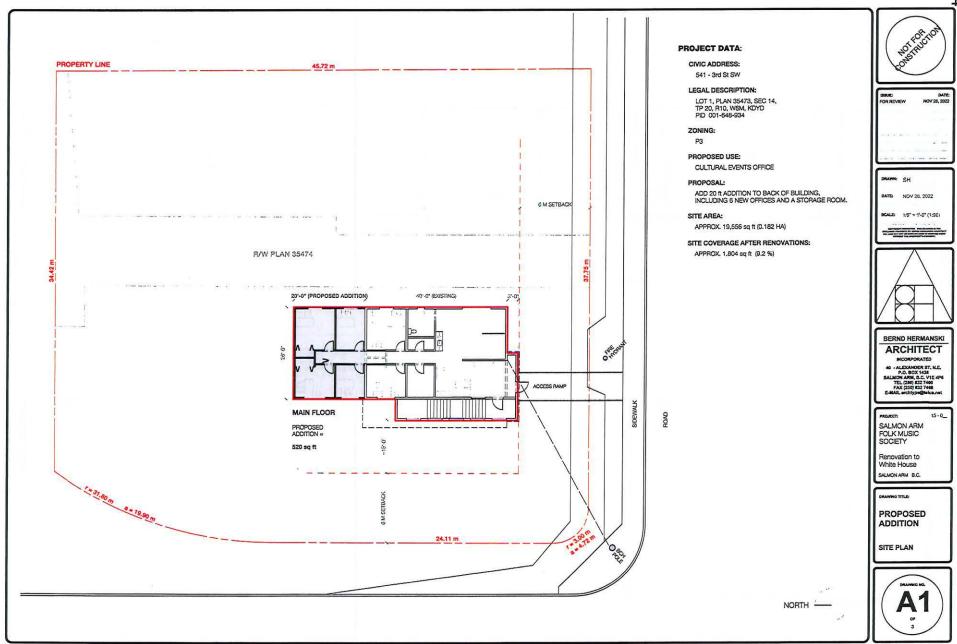
Please do not hesitate to contact me if you require more information.

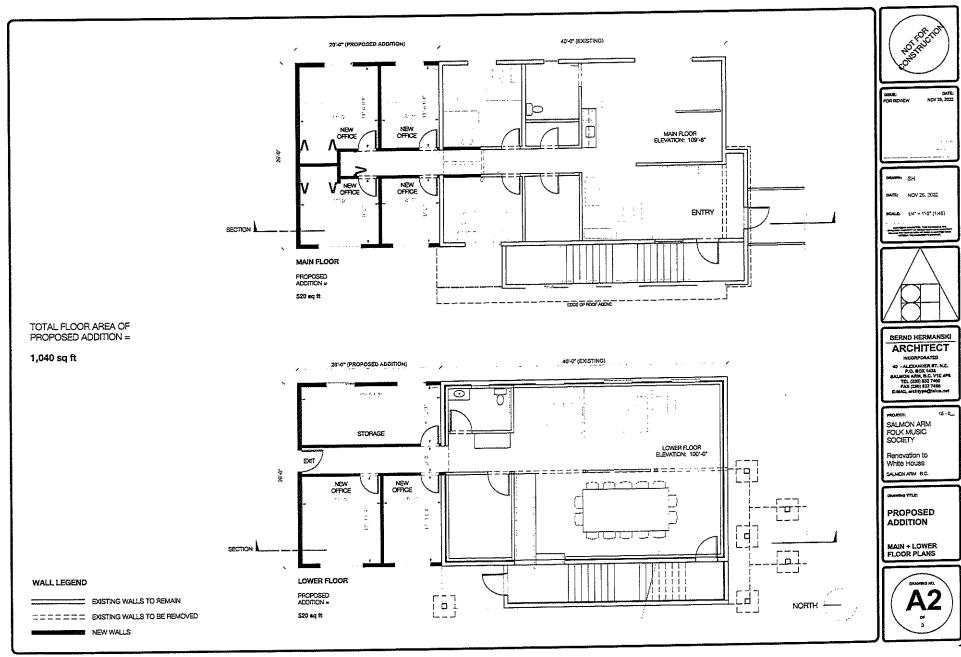
Thank you,

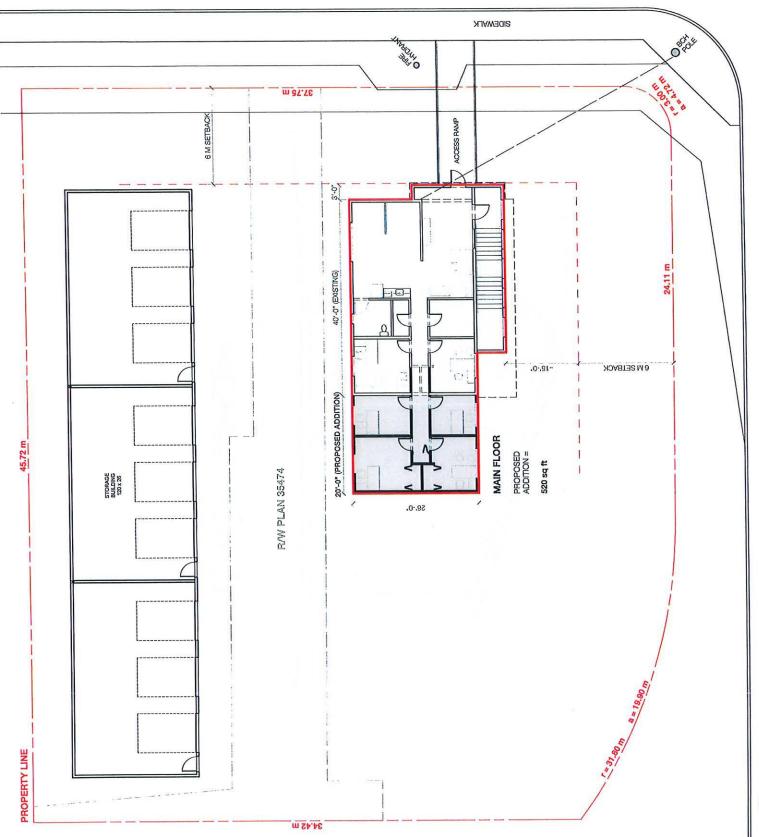
Toni Starkell Administrative Services Manager clerical@rootsandblues.ca



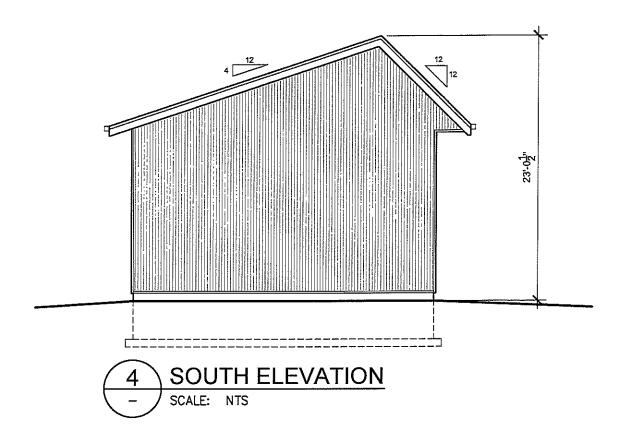












Item 22.1

CITY OF SALMON ARM

Date: June 12, 2023

Moved: Councillor

Seconded: Councillor

THAT: Development Variance Permit No. VP-581 be authorized for issuance to vary the Subdivision and Development Servicing Bylaw No. 4163, for the 30 Avenue NE frontage of That Part of the North East ¼ of Section 19 shown on Plan B4242; Township 20; Range 9, W6M, KDYD, waiving the requirement to upgrade 30 Avenue NE, including road widening and ditching.

[Vandermeer, R. & M.; 2900 40 Street NE; Servicing requirements]

SALMONARM

TO:

His Worship Mayor Harrison and Members of Council

DATE:

June 8, 2023

SUBJECT:

Development Variance Permit Application No. VP-581 (Servicing)

Legal: That Part of the North East 1/4 of Section 19 Shown on Plan B4242; Township 20;

Range 9, W6M, KDYD

Civic Address: 2900 40 Street NE

Owner/Applicant: Ruth and Mike Vandermeer

MOTION FOR CONSIDERATION

THAT:

Development Variance Permit No. VP – 581 be authorized for issuance to vary the Subdivision and Development Servicing Bylaw No. 4163, for the 30 Avenue NE frontage of That Part of the North East ¼ of Section 19 Shown on Plan B4242; Township 20; Range 9, W6M, KDYD, waiving the requirement to upgrade 30 Avenue NE, including road widening and ditching.

STAFF RECOMMENDATION

THAT:

Development Variance Permit No. VP – 581 be authorized for issuance to vary the Subdivision and Development Servicing Bylaw No. 4163, for the 30 Avenue NE frontage of That part of the North East ¼ of Section 19 Shown on Plan B4242; Township 20, Range 9, W6M, KDYD, to waive the requirement to upgrade 30 Avenue NE, subject to the owner providing the required road dedication (approximately 3.965m);

AND THAT:

the owner submit a cash in lieu payment amounting to the cost of upgrades to 30 Avenue NE (including road dedication and ditching) minus the value of the road dedication (including legal and surveying fees). The final amount of the cash in lieu payment shall be approved by the City Engineer.

PROPOSAL

The applicant is requesting to waive servicing upgrades that would be triggered by the proposal for the construction of a single family dwelling. A letter submitted by the applicant in support of their application is attached as Appendix 5.

BACKGROUND

The subject property is approximately 6.11ha (2.47ac) in area (see Appendices 1 and 2). The subject property is designated Acreage Reserve in the City's Official Community Plan (OCP) (Appendix 3). The subject property is zoned A2 (Rural Holding Zone) in Zoning Bylaw No. 2303 (Appendix 4). The A2 zoning permits agricultural development and limits residential development to a single family dwelling and a Rural Detached Suite. The subject property is within the Agricultural Land Reserve (ALR).

Adjacent land uses include the following:

North: A2 (Rural Holding Zone) – Agriculture and Single Family Residence South: A2 (Rural Holding Zone) – Agriculture and Single Family Residence

A2 (Rural Holding Zone) - Agriculture and Single Family Residence West: A2 (Rural Holding Zone) - Agriculture and Single Family Residence

The applicant has submitted a Building Permit for a single family dwelling. As a requirement under the Building Permit, the applicant is required to upgrade 30 Avenue NE to the Rural Local Road (RD-7) Standard. Cost estimates, provided by the applicant's consulting Engineer, for the upgrades are \$77,042.96. 30 Avenue NE in this section is approximately 198m in length (Appendix 6). Servicing upgrades to the 40 Street NE frontage are not required. The subject property does not use 30 Avenue NE for access.

COMMENTS

Engineering Department

The Engineering Department has provided comments which form the basis for the above staff recommendation. The Engineering Department comments are attached as Appendix 7. Staff do not support the variance request and cite that the existing road width does not accommodate two-way traffic, therefore, road dedication and a cash in lieu contribution for the future improvement of 30 Street NE is needed to address this concern. Staff have presented a compromise that should the owner dedicate the land needed to widen the road, the land value, legal and survey costs incurred by the owner can be deducted from the cash in lieu contribution.

At the June 5, 2023 the Development and Planning Services Committee requested that staff provide estimates for land surveying, legal and land values. The information is included as Appendix 8.

Building Department

No concerns

Fire Department

No response

Public Consultation

Pursuant to the Local Government Act and the Development Variance Permit Procedures Bylaw notices are mailed to land owners within a 30m radius of the application. The notices outline the proposal and advises those with an interest in the proposal to provide written submission prior to the Hearing and information regarding attending the Hearing. It is expected that the Hearing for this application will be held on June 12, 2023.

Planning Department

When considering servicing variances a number of factors are taken into consideration, including physical or legal constraints such as ALR status, scale of proposed development and growth potential in the area. The subject property is outside the Urban Containment Boundary and is within the ALR - development potential on the subject property and adjacent properties is limited given the lack of servicing, OCP polices and ALR designation.

Generally, road improvements, such as road widening and construction, occur at the time of development or as capital projects. Lands within the Acreage Reserve designation of the OCP have limited development potential and there are few infrastructure demands in these areas due to lower density. Infrastructure improvements in the Acreage Reserve area are rarely made a priority as capital projects and with limited development potential infrastructure improvements through development do not occur often. The Subdivision and Development Servicing Bylaw is structured so that should a Building Permit be applied for there is an opportunity for the City to evaluate existing infrastructure and require levels be brought to current standard. In the staff analysis of a servicing variance, the timing and location of capital projects and the development potential of adjacent lands are considered.

Staff recognize that there are constraints on future development potential in the area; however, completely offsetting the cost of upgrading and construction of 30 Avenue NE onto the future developer/land owners or the City is problematic. Waiving the requirements entirely would place additional financial burden on the City for the improvements in the future or increase costs onto future developers of adjacent properties. Staff do not recommend the variances as requested by the applicant be granted and have provided an alternative to providing the full scope of servicing requirements.

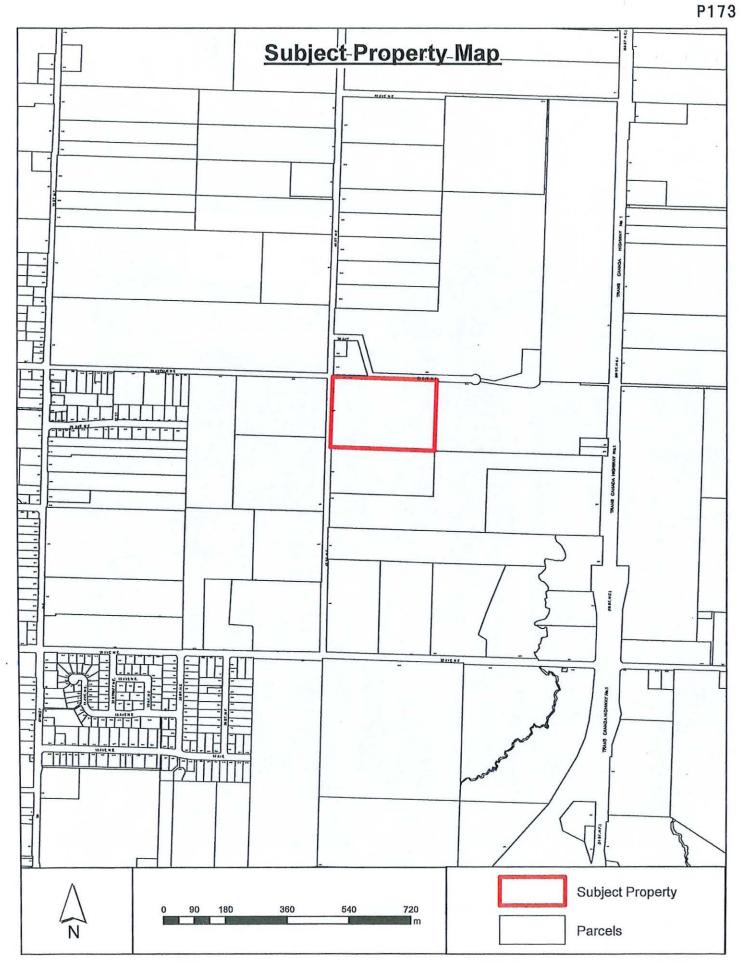
Prepared by: Melinda Smyrl, MCIP, RPP

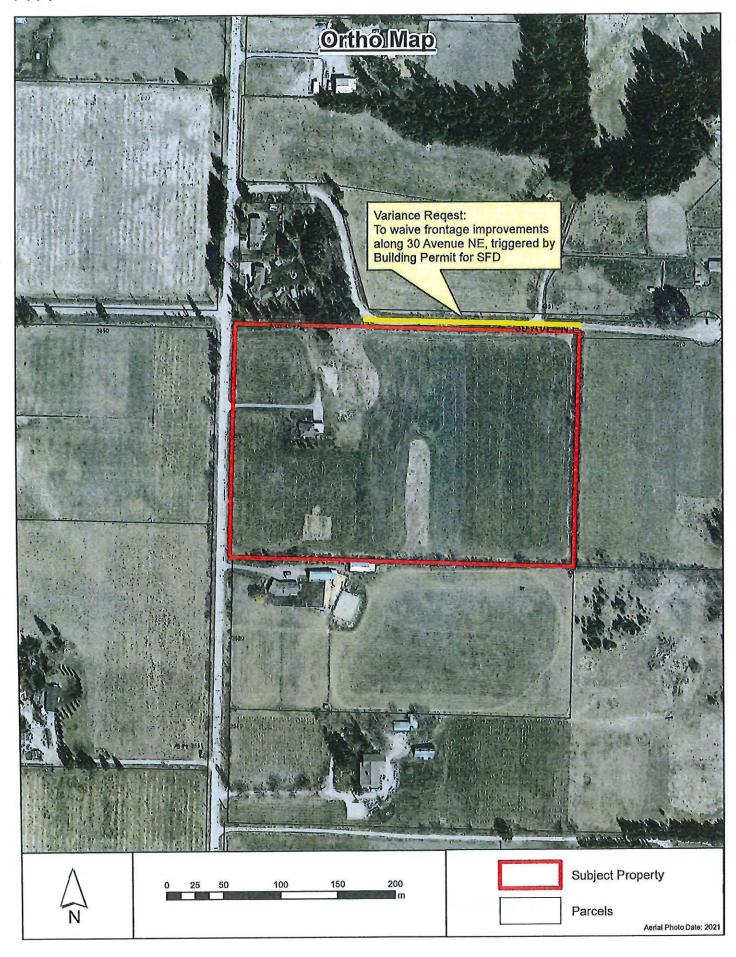
Planner

Reviewed by: Gary Buxton

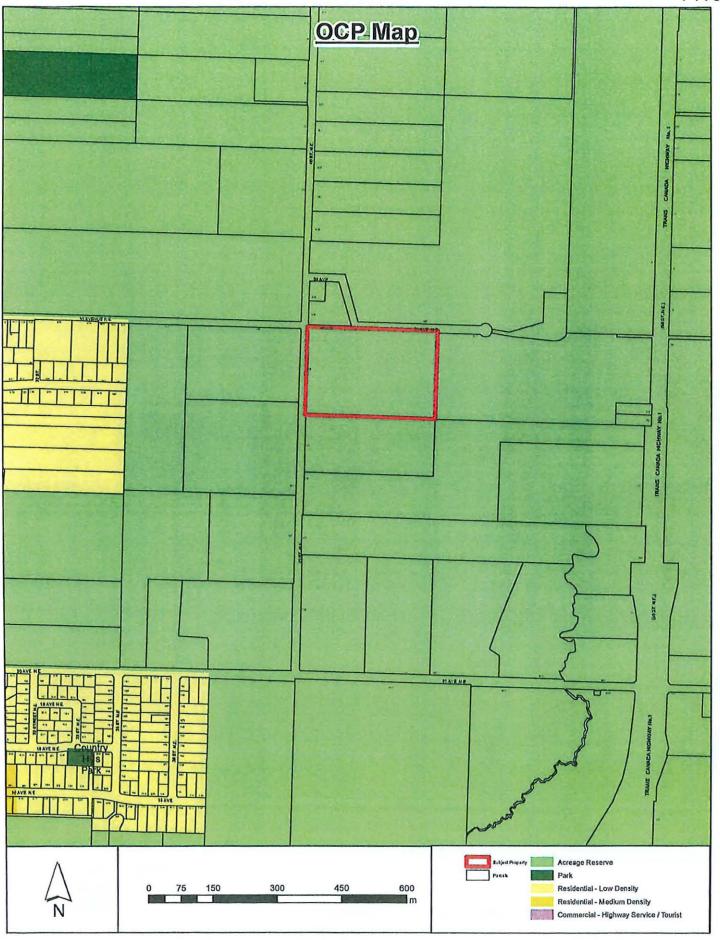
Director of Planning and Community

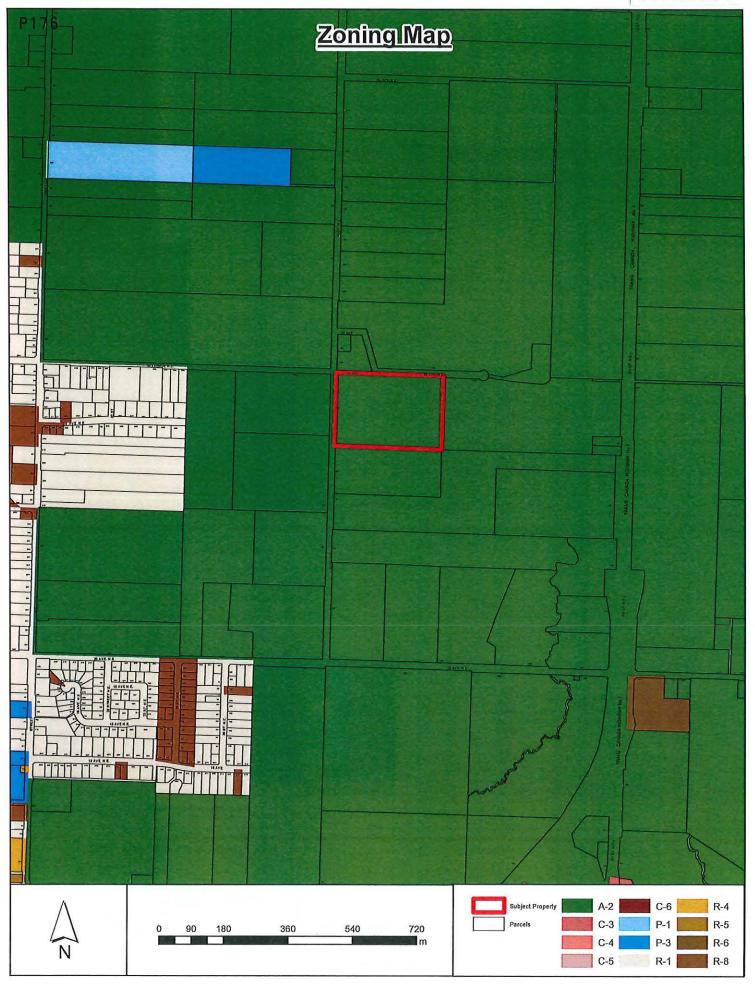
Services





P175





March 16th 2023

Variance permit Application: Ruth and Mike Vandermeer

Requesting variance to Bylaw #4163

History (Refer to attached aerial view of property and adjacent properties)—The City of Salmon Arm has requested road upgrades under Bylaw 4163 to 30th Ave Ne. These upgrades have been triggered by our residential building permit.

Property Address: 2900 40th St. NE

Property Size: 15 Acres

Construction type: Single family residence

Current Building Permit # 17267B

Property Description: Our property is bordered on the west by 40th Street NE (Paved Road), which provides sole access to our (under construction) residence via the existing driveway. To the North, part of our property is bordered by 30th Ave NE, which ends in a cul-de-sac. This road provides access to 3 rural properties. The road works being requested by the City are where 30th Ave NE partially runs parallel along our property line on the North side

Rationale for variance request - Refer to Bylaw 4163

Section 3.0:

3.1.2 (i) There is no need for the capacity for increased flow as;

- a) 30 Ave NE is a no through road that ends in a cul-de-sac.
- b) Just 3 rural properties are accessed along 30 Ave NE at or near the end of the cul-de-sac. All are zoned A-2 and are designated as Acreage Reserve in the OCP. None of these properties are likely to be developed in the future
- c) We will not be requiring any access to our property via 30 Ave NE. We will be accessing our new home via the existing driveway off 40th St. NE
- d) We are not developing our property. We are simply building a single family home. We would understand if we were subdividing and requiring access and services off 30 Ave NE. Such a development would result increased traffic flow, but that is not the case with our construction.

3.1.2 (ii) Safety is not a concern:

- a) We are not now, nor will we in the future be drawing on any services that may be present along 30 Ave NE
- b) If safety has been a concern in the past, then why hasn't the City addressed it already?

Section 5.0:

5.3.1 (a)(b) Exemptions

- a) The bylaw plainly states that new works and services <u>shall not be required</u> where
 - a. "The Development is limited to the construction of an addition to a Low Density Residential Dwelling or the construction of a Building or Structure accessory to a Low Density Residential Dwelling" We understand that ours is not an addition to an existing low density dwelling, but we don't understand why the building of a new home of the same location as the old home,

- which utilizes no more land including building and landscaping as the old home, would face different rules as an addition.

 Theoretically, certain additions to homes may require different access, or require services on an adjacent street why would those be exempt?
- b. "Existing Works and Services have sufficient capacity for any demands directly attributable to the proposed Development." Our construction in no way impacts any existing works and services in place along 30th Ave NE

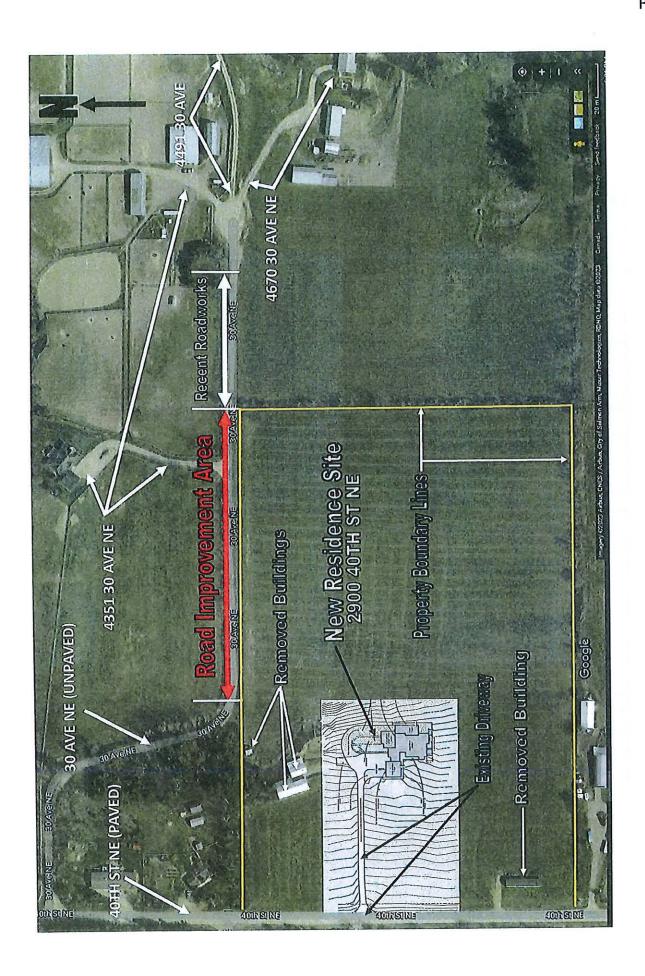
Further:

- As mentioned, 30th Ave NE does not provide any access to our property, therefore, the upgrades would provide no value or benefit to us in any way - no additional or improved access or services and no increase in property value. Any improvement to this road would be for the sole benefit of the 3 rural properties that are accessed from 30 Ave NE.
- 2. 30th Ave NE has received recent upgrades (ditching/grading) to the East of our property line extending towards the end of the road at the cul-de-sac. These improvements end at our property line on the Northeast corner. We are not sure why these improvements weren't completed to extend along 30th Ave NE where it runs parallel to our property.
- 3. We are not developing our property. We are simply rebuilding a new home on a pre existing home site. We would understand if we were subdividing and requiring access and services off 30th Ave NE as a development would result in increased traffic flow etc., but that is simply not the case.
- 4. With the addition of our new home onto this property, the City will benefit from an increase in assessment value and thusly, increased tax revenue for many years to come. That in turn will help provide funding for any future upgrades to 30th Ave NE

Thank you for your attention and consideration.

Ruth Vandermeer

Mike Vandermeer



MIKE AND RUTH VANDERMEER OCTOBER 2022 2900 - 40th STREET NE SUBDIVISION OPINION OF PROBABLE COST

SCHEDULE OF APPROXIMATE QUANTITIES AND UNIT PRICES (*Denotes Nominal Quantity)

item No.	DESCRIPTION OF WORK	UNIT	QUANTITY	UNIT PRICE \$	AMOUNT \$
1.0	ROADS AND EARTHWORKS SECTION 1				
1.1	Clearing & Grubbing	LS	1	\$ 5,000.00	\$ 5,000.00
1.2	Common Excavation and Disposal	m³	890 *	\$ 20,00	\$ 17,800.00
1.3	Supply & Place Sub-Base	m³	240 *	\$ 75,00	\$ 18,000.00
1.4	Supply & Place Base	m³	25 *	\$ 95.00	\$ 2,375.00
1.5	Supply & Place Shouldering	m³	25 *	\$ 150.00	\$ 3,750.00
	Sub-Total: Roads and Earthworks				\$ 46,925.00
2.0	STORM SEWER WORKS SECTION 4				
2.1	Ditching	m	190 *	\$ 45.00	\$ 8,550.00
	Sub-Total: Storm Sewer Works				\$ 8,550.00

	SUMMARY					
1.0	ROADS AND EARTHWORKS		1		\$	46,925.00
2.0	STORM SEWER WORKS				\$	8,550.00
					\$	55,475.00
3,0	ENGINEERING	 	.		-	
	Design/inspection/Records (as per quote)		\$	16,235.00		
	Geotechnical Testing (3%)		\$	1,664.25	\$	17,899.25
			_			
	SUB-TOTAL				\$	73,374.25
	GST (5%)		+		\$	3,668.71
	TOTAL				\$	77,042.96

- *Opinion of Probable Cost Notes
- Quantities may vary depending on field revisions and/or conditions encountered at the time of construction, thereby
 affecting the final cost.
- Unit Prices are influenced by supply & demand for both contractors and materials at the time of construction, thereby
 affecting the final cost.
- 3) Prices do not include BC Hydro, Telus, Gas, Legal Survey (BCLS) and property/right-of-way acquisitions.
- 4) Prices do not include Geotechnical, Environmental and Archaeological studies, reviews and approvals.
- 5) Unit Prices are estimated in 2022 Canadian Dollars for similar works and exclude taxes.

Association of Professional Standards and Foodbard Standards and Foodbards and Foodbar

EGBC #1000946



Memorandum from the Engineering and Public Works Department

TO:

Director of Development Services

DATE:

11 May 2023

PREPARED BY: Chris Moore, Engineering Assistant

SUBJECT:

VARIANCE PERMIT APPLICATION FILE NO. VP-581 R. Vandermeer, - 2900 - 40 Street NE, BC V1E 1Z6

OWNER: AGENT:

Mike Vandermeer

LEGAL:

That Part of the North East 1/4 of Section 9 Shown on Plan B4242:

Township 20, Range 9, W6M, KDYD

CIVIC:

2900 - 40 Street NE

Further to the request for variance dated 23 March, 2023; the Engineering Department has reviewed the site and offers the following comments and recommendations relative to the requested variance.

The applicant is requesting that Council waive the requirements of the Subdivision and Development Servicing Bylaw No. 4163 (SDSB) to upgrade the frontage on 30 Avenue NE to the Rural Local Road (gravel) standard (RD-7).

Background:

Where construction of a home is proposed on bareland within the rural area, the SDSB requires full upgrade of the road(s), works and services within the property's frontage. This generally helps to bring the existing City roads closer to the current approved standards.

The subject property has extensive frontage onto 40 Street NE which is constructed to the current rural standard, and no upgrades are required. However, the property also has frontage onto 30 Avenue NE at rear / side of the property which currently only has a road width of 4.5 to 5.2m, with no shoulder. The RD-7 standard is 7.3m road width with a 1.25m shoulder, and it is generally accepted that for two vehicles to pass safely a minimum width of 6.0m is required.

Insufficient road width makes two way traffic difficult, especially in rural areas with large farm vehicles. However, 30 Avenue NE is a very quiet cul-de-sac with only 3 properties beyond the subject property and further subdivision is not supported by the OCP.

It is noted that the City does not have sufficient dedication in this location to widen the road and ditching, and 3.965m additional dedication is required (to be confirmed by a BCLS). Widening could be completed under a right of way from the subject property, which can be requested at Building Permit stage, but it would be preferable if the applicant was willing to provide the additional 3.965m dedication that is required.

Recommendation:

The Engineering Department recommends that the request to waive the requirements of the Subdivision and Development Servicing Bylaw No. 4163 (SDSB) to upgrade the frontage on 30 Avenue NE to the Rural Local Road (gravel) standard (RD-7) be denied. The current road width does not meet the bylaw standard and although 30 Avenue NE has low traffic volumes, widening the road to allow for two way traffic will improve traffic safety in this location. Should the owner be willing to provide the additional 3.965m of dedication that is required from the subject property on the 30 Avenue NE frontage, staff would support a cash in lieu payment for the future road widening less the value of the dedication given, together with legal and surveying costs.

Chris Moore

Engineering Assistant

Gabriel Bau P.Eng.,

ColvelBu

City Engineer

Address	Legal	Survey	Area	BC Assessment	Per m² rate	Estimated	Estimated	OPC
		-		Land Value	based on BC	value for land	Costs for Land,	
				(2023)/	Assessment	area for road	Legal Fees and	:
				Parcel Area	Land Value	dedication	Surveys	
				(GIS)	(2023)			
2900 40 St NE VP-581	\$5,000	\$15,000	,	\$54,283/ 60,769m²	\$0.93/m²	\$733.80	\$20,733.80	\$77,042.96

Item 22.2

CITY OF SALMON ARM

Date: June 12, 2023

Moved: Councillor

Seconded: Councillor

THAT: Development Variance Permit No. VP-567 be authorized for issuance to vary the Subdivision and Development Servicing Bylaw No. 4163, for the frontage of Lot 1, Section 30, Township 20, Range 9, W6M, KDYD, Plan EPP123104 as follows:

- i) waive the installation of a bike lane (including ditching);
- ii) waive the provision of a Statutory Right of Way in favour of the City for the bike lane; and
- iii) waive the installation of one (1) fire hydrant.

[McLeod, T./Launch Construction Ltd.; 3390 30 Street NE; Servicing requirements]

2. <u>Development Variance Permit Application No. VP-567 [McLeod, T./Launch Construction Ltd.; 3390 30 Street NE; Servicing requirements]</u>

Moved: Councillor Cannon Seconded: Councillor Lindgren

THAT: the Development and Planning Services Committee recommends to Council that Development Variance Permit No. VP-567 be authorized for issuance to vary the Subdivision and Development Servicing Bylaw No. 4163, for the frontage of Lot 1, Section 30, Township 20, Range 9, W6M, KDYD, Plan EPP123104 as follows:

- i) waive the installation of a bike lane (including ditching);
- ii) waive the provision of a Statutory Right of Way in favour of the City for the bike lane; and
- iii) waive the installation of one (1) fire hydrant.
- T. McLeod, the applicant, outlined the application and was available to answer questions from the Committee.

DEFEATED UNANIMOUSLY

Moved: Councillor Lavery Seconded: Councillor Flynn

THAT: Development Variance Permit No. VP-567 be authorized for issuance as follows:

- i) waive the installation of a bike lane (including ditching); and
- iii) waive the installation of one (1) fire hydrant.

AND THAT: the owner provide the road dedication for the required off-site works.

CARRIED UNANIMOUSLY

CITY OF SALMONARM

To:

His Worship Mayor Harrison and Members of Council

Date:

June 8, 2023

Subject:

Variance Permit Application No. VP-567 (Servicing)

Legal:

Lot 1, Section 30, Township 20, Range 9, W6M, KDYD, Plan EPP123104

Civic Address:

3390 - 30 Street NE

Owner:

Terry McLeod

Agent/Applicant: Launch Construction Ltd. (Brad Long)

MOTION FOR CONSIDERATION

THAT:

Development Variance Permit No. VP-567 be authorized for issuance to vary the Subdivision and Development Servicing Bylaw No. 4163, for the frontage of Lot 1, Section 30, Township 20, Range 9, W6M, KDYD, Plan EPP123104 as follows:

- waive the installation of a bike lane (including ditching);
- ii) waive the provision of a Statutory Right of Way in favour of the City for the bike lane: and
- iii) waive the installation of one (1) fire hydrant.

STAFF RECOMMENDATION

THAT:

Development Variance Permit No. VP-567 be authorized for issuance to vary the Subdivision and Development Servicing Bylaw No. 4163, for the frontage of Lot 1, Section 30, Township 20, Range 9, W6M, KDYD, Plan EPP123104 as follows:

- waive the installation of a bike lane (including ditching) and; i)
- ii) waive the installation of (1) fire hydrant.

AND THAT:

the owner provide the road dedication for the required off-site works;

AND FURTHER THAT: the applicant/owner submit a cash in lieu payment amounting to the cost of bike lane installation (including road dedication and ditching) minus the value of the road dedication (including legal and surveying fees). The final amount of the cash in lieu payment shall be approved by the City Engineer.

PROPOSAL

The applicant is requesting to vary Subdivision and Development Bylaw No. 4163 to waive the requirement to upgrade the existing roadway to the required standard. The requirements to upgrade the road frontage are triggered by a building permit for a single-family dwelling. The owner has provided a letter of rationale in support of their application (Appendix 6).

BACKGROUND

The subject property is in the North Broadview area and is designated Acreage Reserve (AR) in the City's Official Community Plan (OCP), zoned A-2 (Rural Holding) in the City's Zoning Bylaw and is entirely within the Agricultural Land Reserve (ALR) (Appendices 1 to 5). The property is approximately 30 acres in size and currently contains an older (built in 1930) single-family dwelling (that is to be demolished) and two

accessory buildings/structures. All lands within the ALR are subject to the regulations of the Agricultural Land Commission.

Adjacent land uses include the following:

North: single family dwelling and accessory buildings/structures (ALR) Zoned A-2

South: vacant lot (ALR)

Zoned A-2
East: single family dwelling and accessory buildings/structures (ALR)

Zoned A-2

West: 30 Street NE; single family dwellings Zoned A-2, R-1, & R-8

COMMENTS

Fire Department

No Fire Department concerns.

Engineering Department

Engineering staff have provided a response to the application (Appendix 7). The RD-9 Rural Arterial Road Cross-Section is included as Appendix 8. An Opinion of Probable Costs (OPC) provided by Lawson Engineering is included as Appendix 9. The OPC amount of \$162,910.44 does not include surveying or legal costs that may be associated with the construction of the works. The approximate area affected by the improvements is shown on the map included as Appendix 10.

Staff are recommending that the owner provide a cash in lieu payment for the installation of the bike lane and ditching so that the works may be completed at a later date. Typically, the cash in lieu amount is calculated from the OPC that is provided by the owner's consulting engineering. However, given the complexity of the legal status of the road, staff is recommending that this be taken into account. The amount suggested is calculated by obtaining the value of the land (total area for road, bike lane and ditching) and subtracting the legal and surveying costs undertaken by the owner.

As shown on Appendix 10, the subject property line extends to the centerline of 30 Street NE. In this location, 30 Street NE fronting the subject property is deemed by staff to be a *Transportation Act* Section 42 Road, meaning that if public money is spent on a travelled road, then the travelled portion (asphalt to asphalt) is deemed and declared to be a highway. City records indicate that 30 Street NE has been maintained as a public road.

The required off-site works are to be constructed outside of the existing asphalt area, beyond that portion of "Section 42" road. In order to construct the required off-site works, the total area of road, bike lane and ditching must either be dedicated to the City as 'road' or a statutory right of way granted in favour of the City. The dedication or right-of way area is approximately 2022m² and would have to be confirmed by a surveyor. Appendix 10 shows the approximate amount of land that that would be needed for the road dedication or Statutory Right of Way.

It should be noted that at the time that the bike lane and ditching is to be installed by the City it is likely that ALR regulations would require additional approvals from the ALC in order to permit a trail corridor through ALR land.

As noted in the staff recommendation and the enclosed report from the Engineering Department, waiving the requirement to install one fire hydrant is supported as Engineering staff feel that the installation of the fire hydrant would not significantly improve fire safety, while at the same time would increase on-going maintenance costs in an area with limited infrastructure.

At the June 5, 2023 Development and Planning Services Committee meeting, the Committee requested that staff provide cost estimates for land values, surveying and legal costs. The information is attached as Appendix 11.

Building Department

No concerns.

Public Consultation

Pursuant to the Local Government Act and City of Salmon Arm Development Variance Permit Procedures Bylaw, notices are mailed to land owners within a 30m radius of the application. The notices outline the proposal and advise those with interest in the proposal to provide written submission prior to the Hearing and information regarding attending the Hearing. It is expected that the Hearing for this application will be held on June 12, 2023.

Planning Department

Development Variance Permits are considered on a case-by-case basis, and in doing so, a number of factors are taken into consideration. These factors include site-specific conditions, such as lot configuration and connecting new infrastructure to existing infrastructure to ensure continuity of services.

30 Street NE is designated as both an Urban Arterial Road and Rural Arterial Road, meaning it is an important corridor for facilitating movement through the community. Staff note that the adjacent parcels to the west of the subject property along this corridor have development potential (i.e. all have the potential to rezone to R-8 to permit either a secondary or detached suite) and highlight the need to consistently meet the standards required along this key roadway.

30 Street NE is identified as a "bike route" in Map 12.2 – Cycle Network Plan of the OCP. The City of Salmon Arm is committed to making it safer, easier, and more enjoyable to walk, bicycle, and use other forms of active transportation, as detailed in Connect Salmon Arm, the City's Active Transportation Network Plan (ATNP). 30 Street NE is noted in the ATNP. The request to waive this requirement entirely is not supported by staff.

CONCLUSION

The minimum servicing levels specified by the City's Subdivision and Development Servicing Bylaw have been adopted to ensure that basic infrastructure is provided to support development. The implication of granting variances to minimum service levels is that these costs (the burden of providing minimum servicing) are then deferred to future property owners or the City (taxpayers).

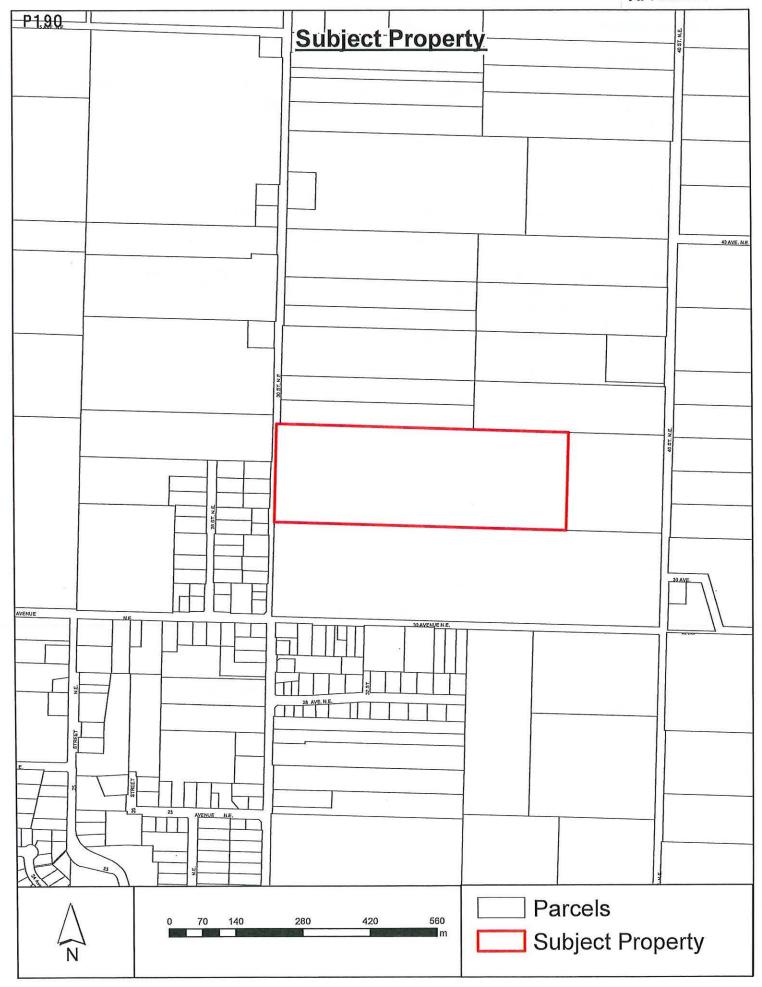
Staff recognize the financial constraints on development; however, waiving the requirements of the Subdivision and Development Servicing Bylaw No. 4163 would place an additional financial burden on the City for those improvements in the future or increase costs onto future developers of adjacent properties. As such, Staff recommends the requested variance to waive the requirement to construct facilities be denied, and that cash in lieu be provided.

Prepared by: Melinda Smyrl, MCIP, RPP

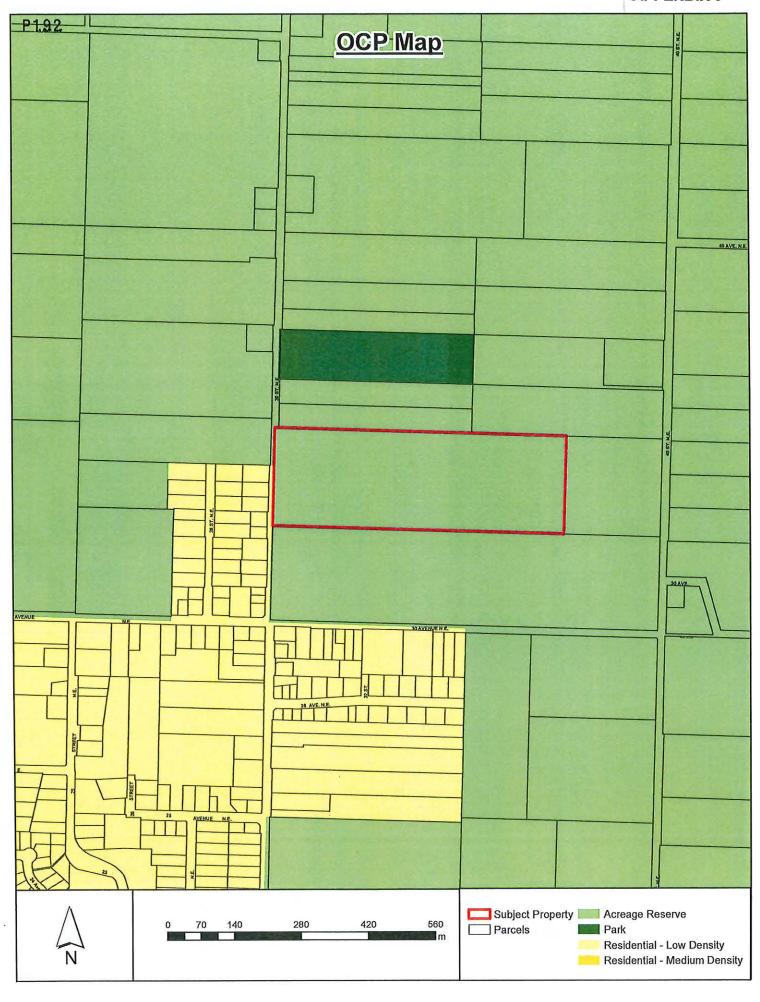
Planner

Reviewed by: Gary Buxton, MCIP, RPP
Director of Planning and Community

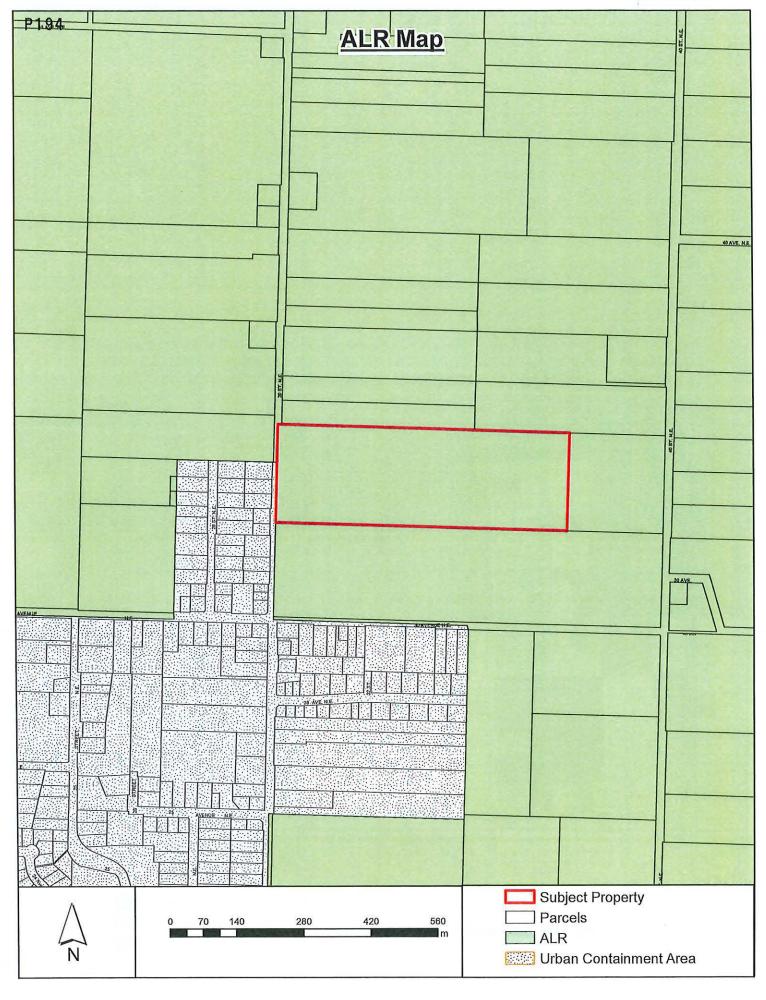
Services











From: Terry McLeod <>

> Sent: Wednesday, February 15, 2023 9:42 AM

> To: Maurice Roy <>; Evan Chorlton

>>; Adam Bux

> Subject: [External] Letter to Salmon Arm Mayor and City council

> Mayor and City Council Salmon Arm

February 15, 2023

- > My name is Terrance (Terry) McLeod, I purchased 30 acres of farm land in the city limits address of 3390-30 St NE in the spring of 2022. I planned on building a homestead with the intention of raising some feeder cows, keeping my horses and putting up my own feed of alfalfa for the rest of my workable years. I am 59 years old, I was born and raised in NE BC where I also farmed. I moved to Alberta 13 years ago where I had a ranch and farmed also, sold that ranch last spring before moving back to Salmon Arm.
- > I have had the main services put in, most of which I did on my own with a small back hoe and cat I own. I have built a hay/equipment shed and shop with a small 800 sq ft suite on one end of the building. This suite was originally planned for my ranch hand who was to live there and assist me in the haying and raising cows. I will now be residing in it until you, the city decides.
- > I hired an architect out of Vernon, brought on a house building contractor out of Blind Bay to assist me with the construction of my new and final home. We followed the regulations set by the city and ALC for building restrictions to the T, I have done all permitting as required, and much to my surprise, Salmon Arm comes back with having requested I install lights, sidewalks, fire hydrants and a possible bike lane in front of my acreage.
- > I have sent in a letter from Lawson Engineering asking for a variance to these requests as I would be the only acreage on the street with this in front. I am also asking for a variance regarding the deposits for future upgrades. I had to have the property surveyed at the request of city planning and development. When I had this done, it was brought to my attention that my property line is still out to the center line of the 30ST road way. This was never removed from my title and it is my property today.
- > I will forgive the property to the center line for any upgrades requested, I will also want the city to pay for any surveys required to move the property line. I will also request that the city forgive me of any future upgrade costs in lieu of these, I will hand the property back to the City of Salmon Arm. I paid 27,000\$ to have the property surveyed, I will not be spending any more on surveys for the city to use at their disposal. Let's move forward and please allow my variance of building my final home at peace. > I would like to build my house without anymore surprises, let me live on my dream acreage and retire with some cows, horses and putting up hay for feed.
- > Yours truly, honestly, Terry McLeod.
- > Terry McLeod



Memorandum from the Engineering and Public Works Department

TO:

Gary Buxton, Director of Planning

DATE:

1 May 2023

PREPARED BY:

Chris Moore, Engineering Assistant

SUBJECT: OWNER:

VARIANCE PERMIT APPLICATION FILE NO. VP- 567
T. McLeod, PO Box 10038 Salmon Arm, BCV1E 3B9

APPLICANT:

Launch Construction Ltd., 2154 Eagle Bay RD. Blind Bay, BC V0E 1H1 THE NORTH ½ OF THE SOUTH ½ OF THE SOUTH WEST ¼ SECTION 30

TOWNSHIP 20 RANGE 9 W6M KDYD EXCEPT PLAN 3127

CIVIC:

LEGAL:

3390 - 30 Street NE

Further to the request for variance dated March 20, 2023; the Engineering Department has reviewed the site and offers the following comments and recommendations relative to the requested variances.

The applicant is requesting that Council waive the following requirements of the Subdivision and Development Servicing Bylaw No. 4163 (SDSB):

1. Waive the requirement to upgrade 30 Street NE to the RD-9 Rural Arterial Road Cross Section

Background:

30 Street NE is designated as a Rural Arterial Road and upgrading to the RD-9 standard is required under the SDSB. Upgrades required include bike lane construction and associated road widening and ditching.

30 Street NE is heavily used by vehicles and the Active Transportation Network Plan (October 2022) identifies 30 Street NE as part of the City's Long Term Bicycling Network.

During the development of this property, it became apparent that the City does not own any dedication on the east side of 30 Street NE and that the property's title currently extends to the centre line of the road. This portion of 30 Street NE is considered to be a Section 42 road, as when public money has been spent on a travelled road that is not a highway, the travelled road is deemed and declared to be a highway. The City does not therefore require dedication to maintain use of the road, although dedication would be required if the City wants to widen the road in the future.

Recommendation:

Since the City's Active Transportation Network Plan identifies 30 Street NE as part of the City's Long Term Bicycling Network, the Engineering Department recommends that the request to Waive the requirement to upgrade 30 Street NE to the RD-9 standard be denied. There is

little benefit in installing a cycleway on a short length of 30 Street NE and the Cycleway would be better done on a larger scale as part of a Capital Works Project. Staff would therefore recommend taking a cash in lieu payment for upgrading to the RD-9 standard. The City would also require a right of way over the property for the construction of the cycleway, but since the owner has indicated a willingness to provide the City with full dedication, staff would recommend that the cash in lieu payment be reduced by the value of the dedication given, together with legal and surveying costs.

2. Waive the requirement to install one new fire hydrant.

Background:

One additional Fire Hydrant is required to meet the Low Density spacing requirement of 150 meters, as required by the SDSB. However, based on the Rural spacing requirement of 300m, the spacing requirements are already met. The southern half of the lots on the west side of 30 Street NE are in the Urban Containment Boundary, with the northern half and the subject property being located in the Rural area. It is accepted practice on roads with mixed zoning to work to the highest standard. However, in this instance an additional fire hydrant will be of little benefit as based on the Urban spacing to the south and Rural spacing to the north, all properties are already covered.

Recommendation:

The Engineering Department recommends that request to waive the requirement to install one new fire hydrant be approved. An additional hydrant in this location, although required by the SBDB will not significantly improve fire safety and will leave the City with increased ongoing maintenance costs.

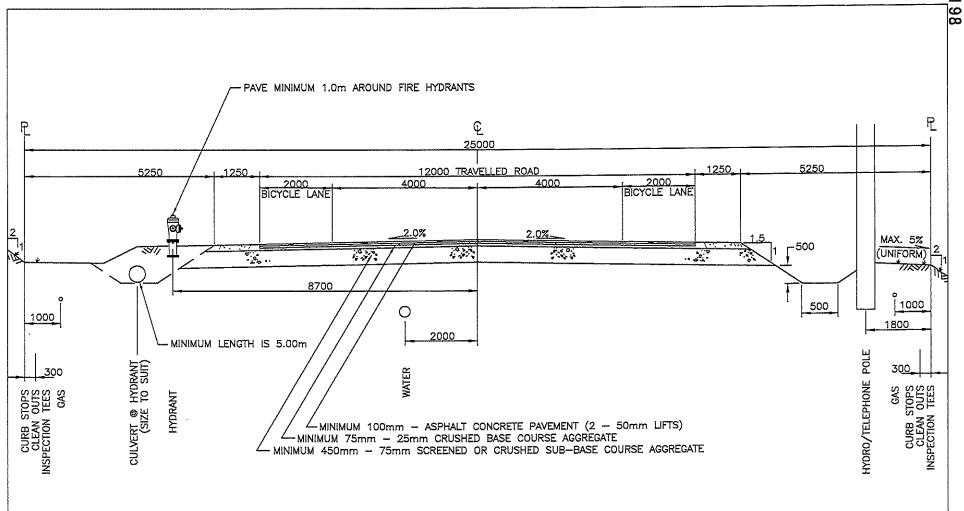
Chris Moore

Engineering Assistant

Gabriel Bau P.Eng.,

Cohiel Br

City Engineer



NOTES:

- 1) Where gravel surface is permitted, crossfall shall be 4.0%
- 2) Drainage shall be sheet drainage, no point load drainage permitted
- All materials shall be supplied and placed in accordance with schedule B, Part 3.0 and Schedule D, Approved material list.
- Grades in excess of 2H:1V shall be recommended by a geotechnical engineer and approved by the City Engineer.

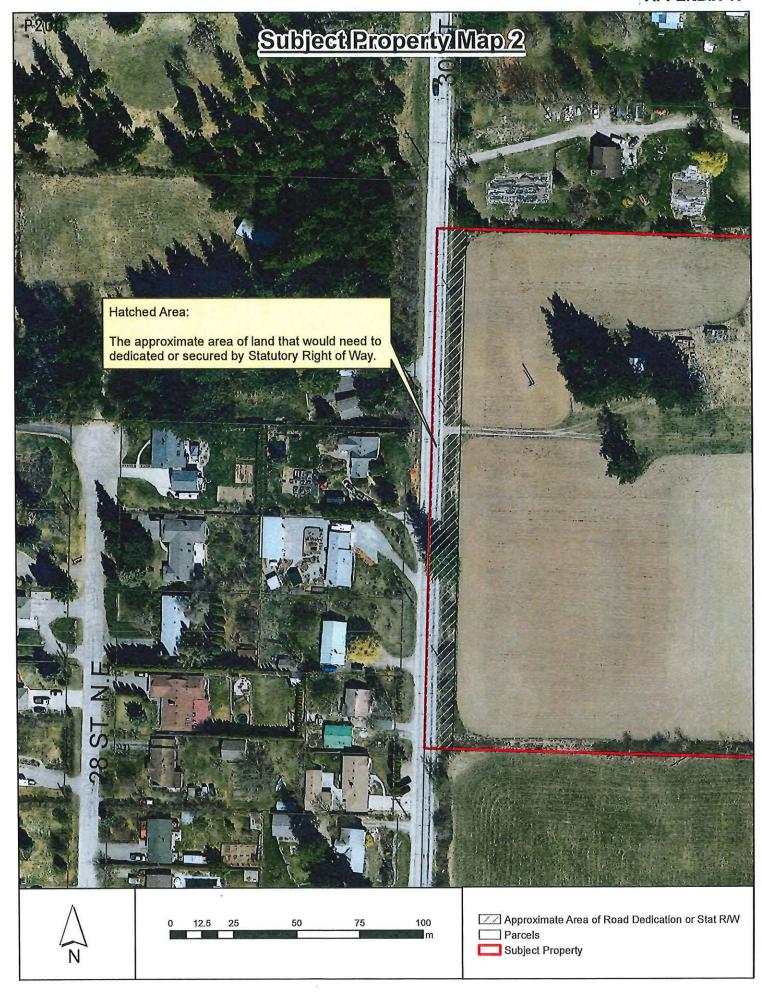
Sali	CITY OF SALMON	ARM	25m R/W	Rural Arterial Road	d Cross—Section
No.	Revision	Date	Date	Approved	SPECIFICATION DRAWING No.
Α	ISSUED FOR APPROVAL	07/14/16		01/1/	DIOMINING NO.
			10-11-2016	920	RD-9 l
				/ City Engineer	



3390 30th Street NE 13-Mar-23 Class D Opinion of Probable Cost

NO.	DESCRIPTION OF WORK	UNIT	QUANTITY	UNIT PRICE	AMOUNT \$
1.0	ROADS AND EARTHWORKS				
1	Supply & Install Asphalt - Bicycle lane (100mm)	m2	407	48.00	19,536.00
2	Remove & Dispose Asphalt	m2	50	25.00	1,250.00
3	Supply & Place 25mm Crushed Base Course	m3	85	80.00	6,800.00
4	Supply & Place 75mm Crushed Granular Sub-Base Course	m3	380	60.00	22,800.00
5	Common Excavation & Disposal	m3	500	18.00	9,000.00
6	Asphalt Milling - Key-in Joints	m	204	7.00	1,428.00
7	Boulevard Grading & Ditching	LS	1	2,000.00	2,000.00
8	Bike Lane Painting	LS	1	4,500.00	4,500.00
9	Power Pole Relocation	ea	4	12,500.00	50,000.00
2.0	WATER WORKS				
11	Supply & Install Fire Hydrant Assembly c/w 150Ø x 150Ø x 150Ø HFF Tee, Gate Valve, and 150Ø Lead	LS	1	11,980.00	11,980.00
	SUMMARY				
1.0	ROADS AND EARTHWORKS				\$ 117,314.00
2.0	WATERWORKS				\$11,980.00
	SUB-TOTAL:				\$ 129,294.00
					120,20 1.00
	ENGINEERING (10%)				\$ 12,929.40
	CONTINGENCY (10%)				\$ 12,929.40
	SUBTOTAL				\$155,152.80
	GST (5%)				\$7,757.64
	TOTAL				\$ 162,910.44
	Quantities may vary depending on field revisions and/or conditions encountered at the time of construction, thereby affecting the final cost.				102,010.11
	 Unit Prices are influenced by supply & demand for both contractors & materials at the time of construction, thereby affecting the final cost. 				
	contained, aloroby allocating the initial cost.				





Address	Legal	Survey	Area	BC Assessment Land Value (2023)/ Parcel Area (GIS)	Per m² rate based on BC Assessment Land Value (2023)	for land area for	for Land, Legal	OPC
3390- 30 St NE VP-567	\$5,000	\$10,000	202.263 x 10m (Both measurement from survey) = 2022.63 m2	\$126,831/ 123,485m2	\$1.03/m2	\$2083.30	\$17,083.30	\$162,910.44

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CITY OF SALMON ARM

Date: June 12, 2023

Moved: Councillor

Seconded: Councillor

THAT: Development Variance Permit No. VP-574 be authorized for issuance for Lot 2, Section 11, Township 20, Range 10, W6M, KDYD, Plan 1915 Except Plan EPP115809, and Lots 2, 4, 6, 8, 10 & 12, Township 20, Range 10, W6M, KDYD, Plan EPP115809 which will vary the following provisions of Subdivision and Development Servicing Bylaw No. 4163 and Zoning Bylaw No. 2303 as follows:

- i. Subdivision and Development Servicing Bylaw No. 4163, Section 4.11.4 extend the maximum permitted cul-de-sac length from 160 metres in length in Urban Development Areas to 249 metres for the future 8 Avenue SE, and
- ii. Zoning Bylaw No. 2303, Section 4.12.1(a) Fences and Retaining Walls increase the maximum permitted combined height of a fence in conjunction with a retaining wall from 2 m (6.5 feet) to 6 m (19.7 feet).

[0695662 BC Ltd./Massier, G.; 1631 10 Street SE and 1561, 1581, 1621, 1641, 1661 and 1681 9 Street SE; Servicing and Retaining Wall requirements]

SALMONARM

TO:

His Worship Mayor Harrison and Members of Council

DATE:

May 23, 2023

SUBJECT:

Development Variance Permit Application No. VP-574 (Servicing and retaining wall) Legal: Lot 2, Section 11, Township 20, Range 10, W6M, KDYD, Plan 1915 Except Plan EPP115809, and Lots 2, 4, 6, 8, 10 & 12, Township 20, Range 10, W6M, KDYD,

Plan EPP115809

Civic Address: 1631 - 10 Street SE, 1561, 1581, 1621, 1641, 1661 & 1681 - 9 Street SE

Owner: 0695662 BC Ltd Agent: Massier, G.

MOTION FOR CONSIDERATION

THAT:

Development Variance Permit No. VP-574 be authorized for issuance for Lot 2, Section 11, Township 20, Range 10, W6M, KDYD, Plan 1915 Except Plan EPP115809, and Lots 2, 4, 6, 8, 10 & 12, Township 20, Range 10, W6M, KDYD, Plan EPP115809 which will vary the following provisions of Subdivision and Development Servicing Bylaw No. 4163 and Zoning Bylaw No. 2303 as follows:

- Subdivision and Development Servicing Bylaw No. 4163, Section 4.11.4 extend the maximum permitted cul-de-sac length from 160 metres in length in Urban Development Areas to 249 metres for the future 8 Avenue SE, and
- ii. Zoning Bylaw No. 2303, Section 4.12.1 (a) Fences and Retaining Walls increase the maximum permitted combined height of a fence in conjunction with a retaining wall from 2 m (6.5 feet) to 6 m (19.7 feet).

STAFF RECOMMENDATION

THAT:

Council support the Motion for Consideration.

PROPOSAL

The proponents submitted a subdivision application in January 2019 (Letter of Conditions issued in response on June 26, 2019) to subdivide the parcel at 1631 10 Street SE into forty-one (41) residential parcels (Appendix 1 & 2). This subdivision application triggers works and services, including extending the road network through the subject parcel to provide access to lands beyond to the north, south, and west, none of which are developed at this time. Prior to road installation on the adjacent parcels, the applicant has requested that Council vary the Subdivision and Development Servicing (SDS) Bylaw requirement for cul-de-sac length to allow their development to proceed. As well, the applicant has requested the Zoning Bylaw requirement for the combined height of a fence and retaining wall be increased across multiple parcels.

BACKGROUND

The subject parcel is within Area B on the eastern edge of the Hillcrest residential area, located just west of 10 Street SE and the Byer's View subdivision. The application to subdivide proposes future roads (8 and 9 Avenue SE) and 41 new parcels approximately 600 to 800 square metres in area (Appendix 2).

The future 8 Street SE is intended to continue to both the south and west and eventually connect to the larger future road network within Area B, while the 9 Street SE is intended to extend south beyond the subject parcel, with an emergency access to 10 Street SE under development by the applicant.

The parcel is designated "Residential Low Density" in the City's Official Community Plan (OCP), is within the Urban Containment Boundary, and is zoned Residential Suite Zone (R-8) in the Zoning Bylaw (Appendix 3 & 4). The R-8 Zoning request was approved by Council in 2019. Site photos are attached as Appendix 5. The applicant has provided plans detailing their requests attached as Appendix 6.

COMMENTS

Engineering Department

Comments attached as Appendix 7 provide recommendation to support requests.

Fire Department

Recommendation of support for requests noting future road connections.

Public Consultation

Pursuant to the *Local Government Act* and City of Salmon Arm Development Variance Permit Procedures Bylaw notices are mailed to land owners within a 30m radius of the application. The notices outline the proposal and advises those with an interest in the proposal to provide written submission prior to the Hearing and information regarding attending the Hearing. It is expected that the Hearing for this application will be held on June 12, 2023.

Planning Department

Cul-De-Sac Length

The length of a dead end road is restricted in order to limit the number of vehicles using a single access point, as well as to ensure emergency vehicle access and minimize associated safety risks. The applicant is requesting a variance to the SDS Bylaw to advance their subdivision to permit development within an area of limited road access, as shown in Appendix 6.

OCP policy 13.3.9 supports utilizing the SDS Bylaw to identify works and services required at time of subdivision. The purpose behind servicing requirements is to ensure that properties under development are connected to the expected municipal systems and to ensure that each system, including the City's road network, is extended to mitigate any gaps.

Within this development, 8 Street SE and 9 Street SE offer some contrasting elements. The installation of the emergency access route connecting 9 Street SE to 10 Street SE will allow 9 Street SE to meet the 160 m cul-de-sac length requirement once completed. 9 Street is expected to ultimately remain a cul-de-sac on the adjacent parcel to the south, with no connection or continued access to the south.

8 Street SE falls within a different category as it is intended to connect to a larger road network within Area B which is not yet developed. While it may be a dead end road for some time, 8 Street SE must be considered in a separate category from 9 Street NE as it is not intended to remain as a dead end and will ultimately offer connections to multiple routes for access and exit.

As development advances within Area B prior to connections being established, the City must contend with a preliminary road network. Staff note that there is no timeline for the required infrastructure instalment over the adjacent lands and some concerns exist with limited access routes. However, staff support the variance be granted for the cul-de-sac length of the future 8 Street SE with the understanding that future connections will be developed.

Fence and Retaining Wall

OCP Policy 8.3.22 suggests minimizing cut, fill and retaining walls on hillside areas, as well as the preparation of grading plans prior to servicing and construction. As noted in the OCP, a grading plan undertaken in advance can help ensure consistency between neighbouring parcels and could proactively direct a related variance application to address steep slopes across multiple parcels.

The applicant has provided such a grading plan (Appendix 6) and requests the variance across multiple parcels. Considering the steep slopes present and to avoid future variance requests, staff appreciate that the applicant has taken this approach for consistency across the proposed parcels. The grading plan details two retaining walls along a shared rear parcel line. The variance requested would apply to both walls as presented, with the 6 m height request accounting for the tallest possible point of a combined retaining wall and fence structure. Staff note that the 6 metre height requested is the maximum height on the southern parcels and that the size of the wall decreases moving north across the terrain.

Staff do have a concern regarding the requested variance considering the following:

1. The 6 m increased height requested is relatively large with respect to the 2 m maximum, which should be considered in combination with the proposed wall's length across multiple parcels, which could create an overall imposing structure.

However additional factors also affect this parcel and should be considered with the requested variance, primarily the steep terrain (Appendix 8), and further that the undeveloped parcels most affected are in the hands of the developer. Further, Staff note that the proposed walls are set back from the parcel lines, allowing for maintenance access, as well as an opportunity for landscaping to mitigate the visual impacts (although such landscaping would be up to the homeowner).

Thus, in support of the requested variance, staff note the following:

- 1. There is an opportunity (at the homeowner's discretion) for landscaping to mitigate the visual impact of the proposed retaining wall;
- 2. The setbacks from parcel lines allow for maintenance access;
- The steep sloping terrain provides a reasonable rationale for some form of retaining wall to create level yard areas across this development, a common approach for single family;
- 4. The applicant's lot grading plan allows for consideration across multiple parcels; and
- 5. The bulk of the affected parcels are owned by the developer and a future purchaser will be able to consider the presence of the retaining wall.

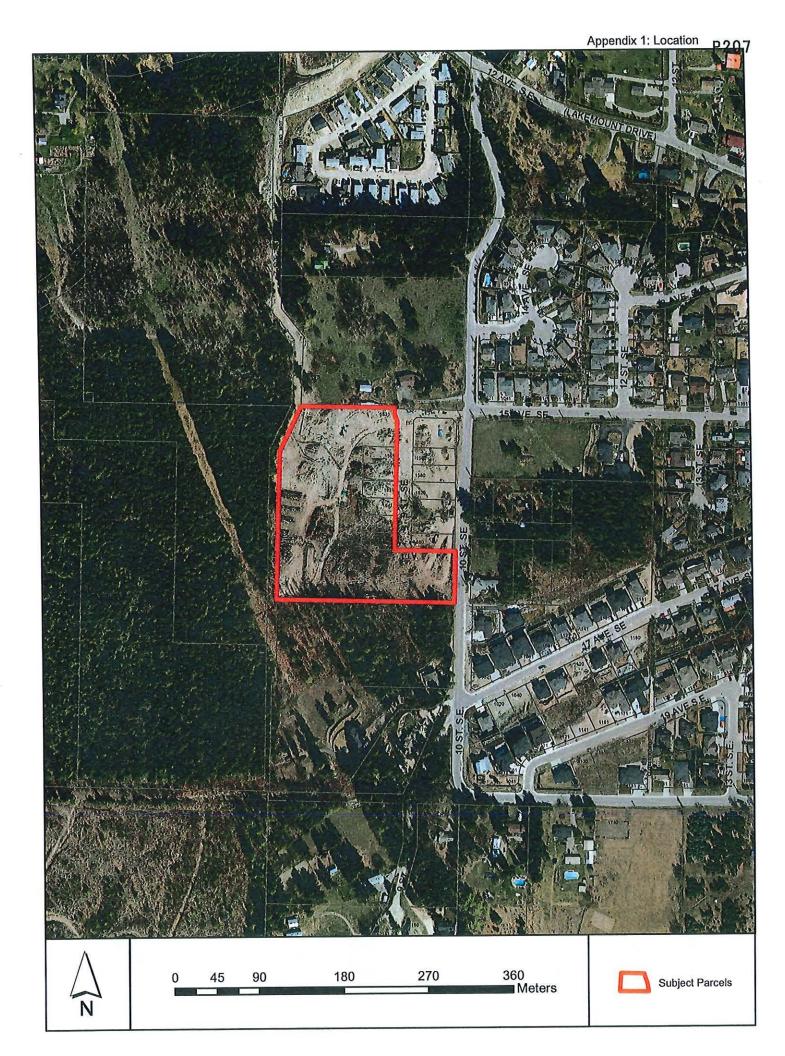
CONCLUSION

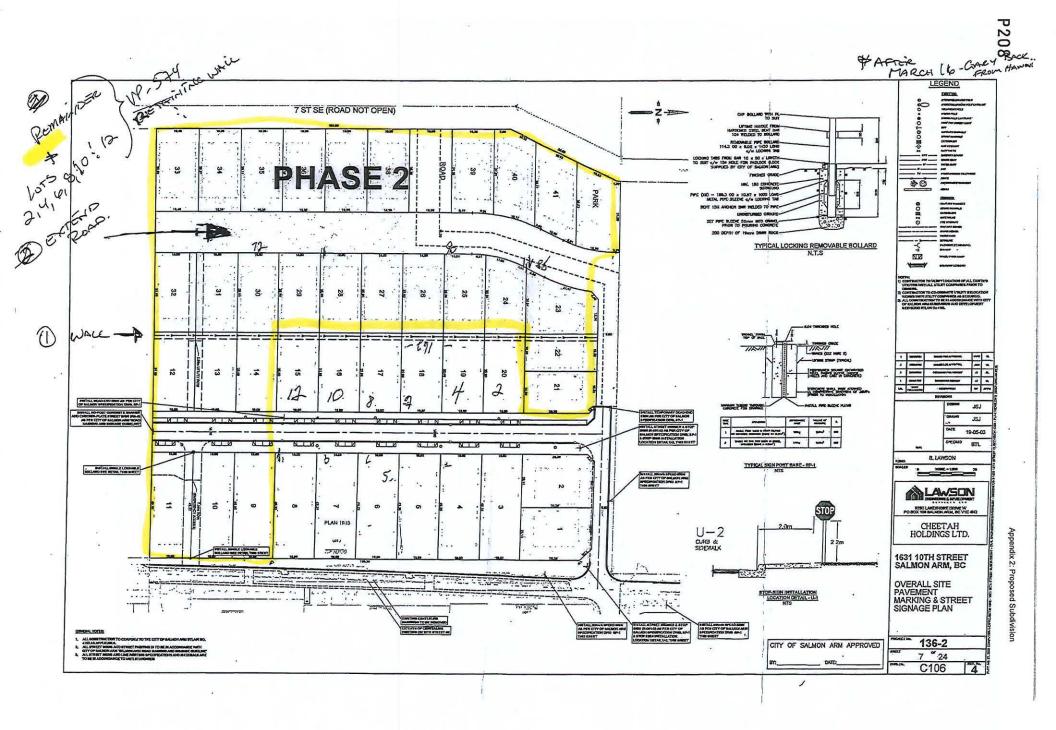
Staff support the requested cul-de-sac length extension for 8 Street SE given the expected future road network connections. While considering the retaining wall staff would typically not support a variance of such magnitude, however factoring in the steep slopes, the largely undeveloped stage of the area, the siting of the retaining walls off the parcel lines (allowing for maintenance and potential landscaping), and the applicant's comprehensive approach, staff support the requested variance.

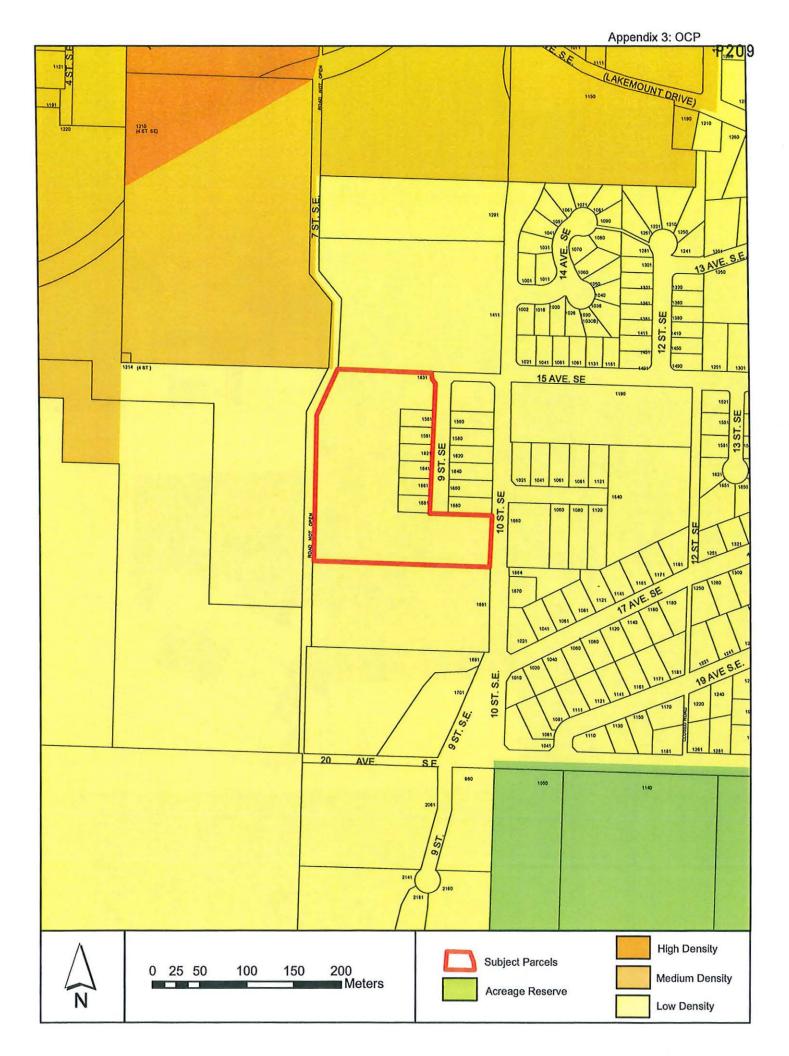
Prepared by: Chris Larson, MCIP, RPP

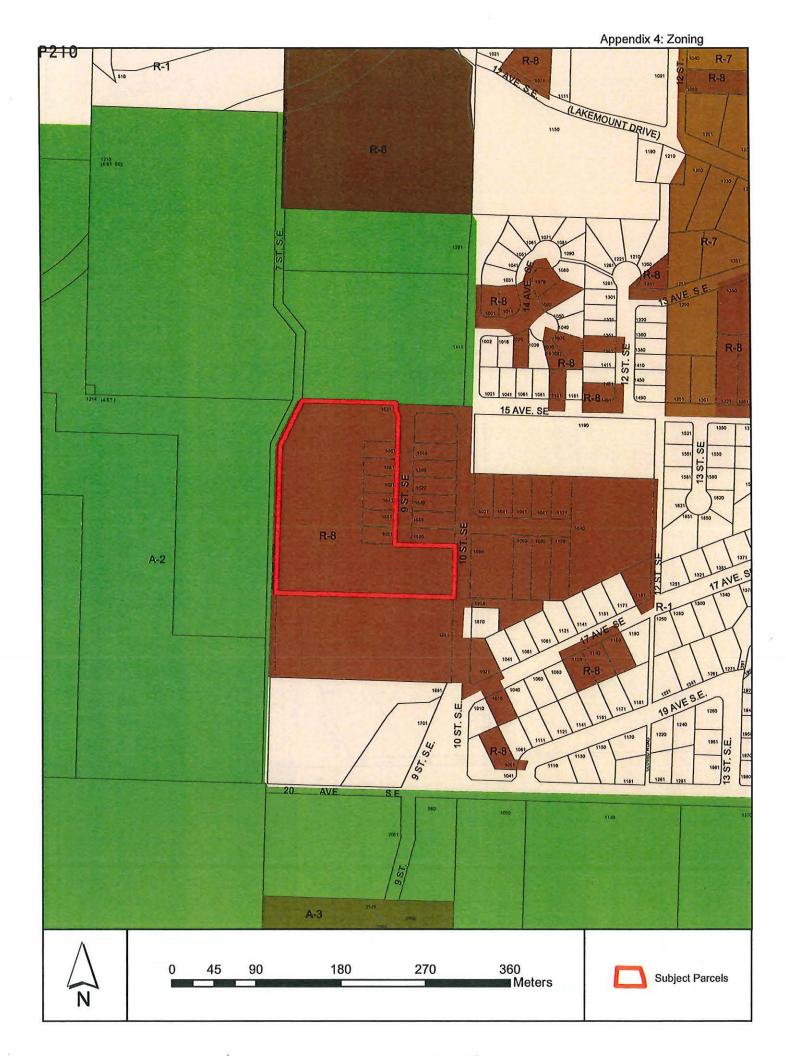
Senior Planner

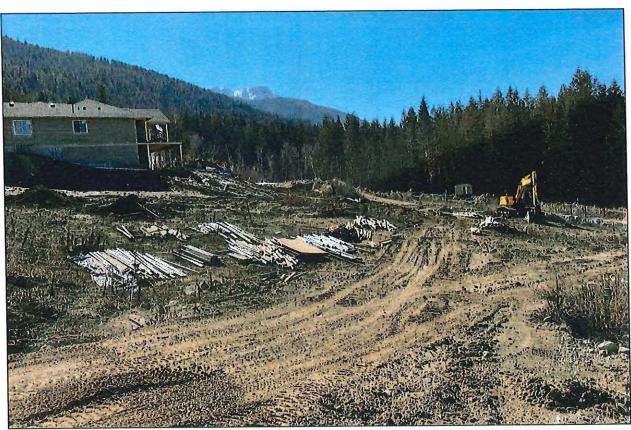
Reviewed by: Gary Buxton, MCIP, RPP
Director of Planning & Community Services



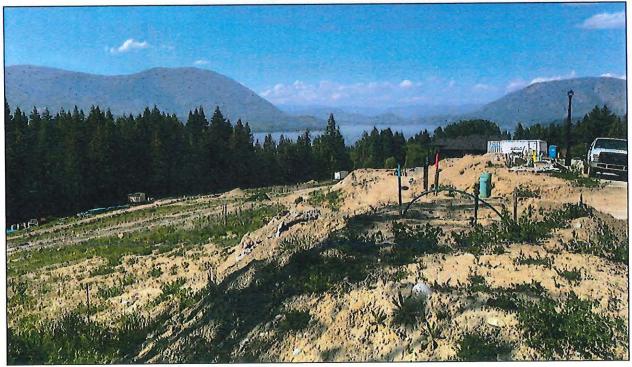




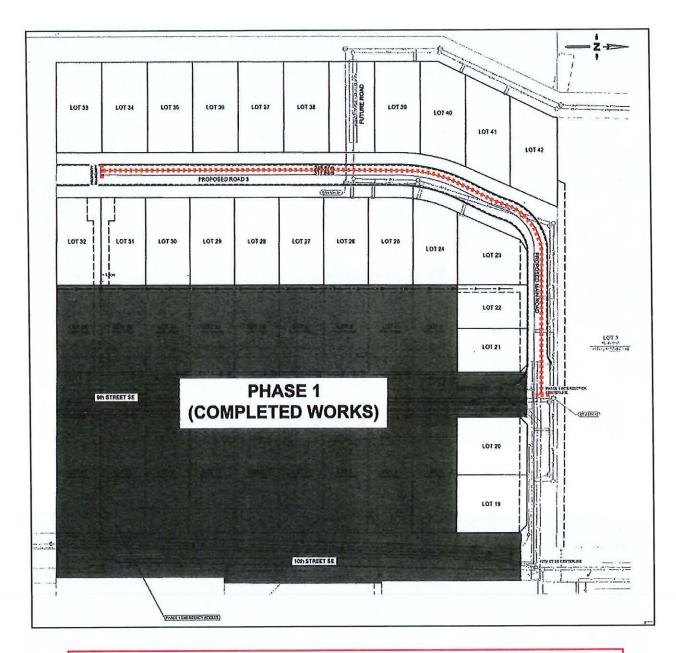




View of subject parcel south from 15 Avenue SE.



View of subject parcel north from 9 Street SE.

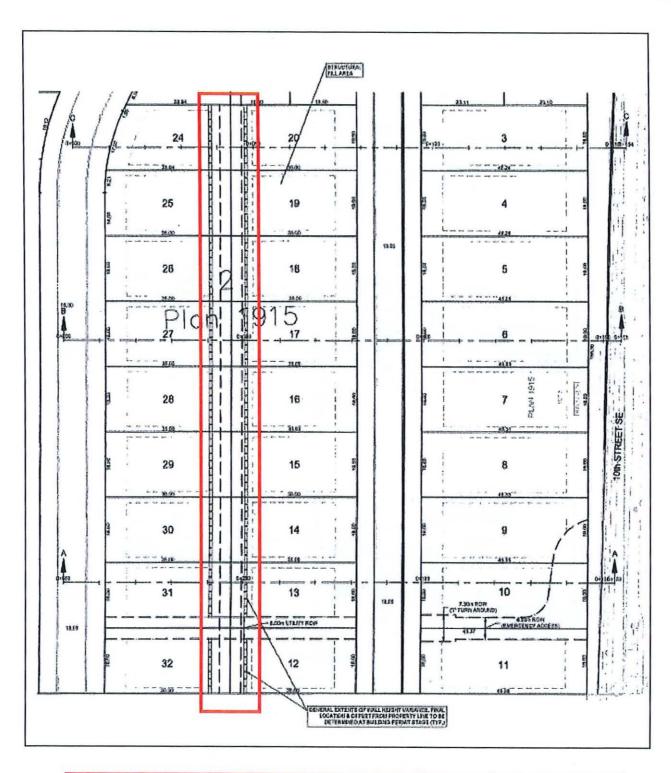


Variance Requested

SDS Bylaw No. 4163 Schedule B, Part 1, Section 4.11.4

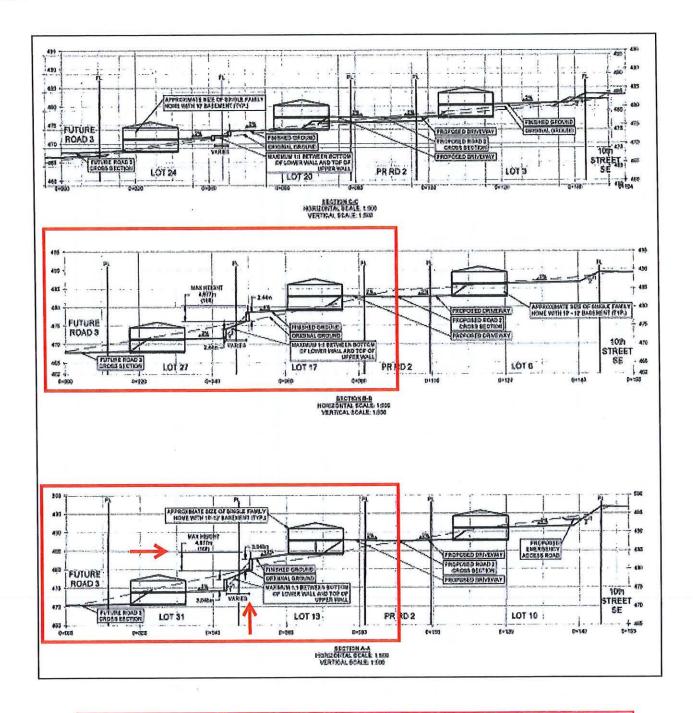
Increase the maximum permitted length of a cul-de-sac / dead end road from 160 m to 249 m.

This is a temporary dead end as 8 Street SE is intended to connect to and form a portion of future road network within Residential Development Area B.



Variance Requested

Extent of retaining wall across the subject parcel, which features increasing slope over the southern portion of the parcel.



Variance Requested Zoning Bylaw No. 2303 Section 4.12.1 (a) Increase the combined retaining wall and fence height from 2m to 6m

SALMONARM

Memorandum from the Engineering and Public Works Department

TO:

Director of Development Services

DATE:

18 May 2023

PREPARED BY:

Chris Moore, Engineering Assistant

SUBJECT:

VARIANCE PERMIT APPLICATION FILE NO. VP- 574

OWNER:

0695662 BC Ltd - 2710 - 30 Street Salmon Arm, BC V1E 3G6

APPLICANT:

Massier, G.

LEGAL:

Lot 2, Section 11, Township 20, Range 10, W6M, KDYD, Plan 1915 Except Plan EPP115809 (PID: 011-075-104) Lots 2, 4, 6, 8, 10 & 12, Township 20, Range 10, W6M, KDYD, Plan EPP115809 (PIDs: 031-605-681, 031-605-

702, 031-605-729, 031-605-745, 031-605-761 & 031-605-788)

CIVIC:

1631 - 10 Street SE (Parent Property) and 1561, 1581, 1621, 1641, 1661

& 1681 - 9 Street SE

Further to the request for variance dated March 30, 2023; the Engineering Department has reviewed the site and offers the following comments and recommendations relative to the requested variance:

1. Zoning Bylaw No. 2303 Section 4.12.1 (a) to increase the combined retaining wall and fence height from 2m to 6m

Background:

1631 10 Street SE is a steep, challenging site with approximately 16m level difference from 9 Street SE to proposed 8 Street SE. The developer had initially proposed a 2:1 slope from the higher lots to the lower lots, together with one 3m high wall. Current proposal has two 3m high walls with a slope in between. This reduces the overall impact on the lots and increases the usable depth of the yards.

It is not practical to develop these lots without significant retaining walls and approving the over height retaining wall for all lots in one application is preferred to individual applications on a lot by lot basis.

The proposed upper wall is located above the existing 3m wide drainage easement and proposed swale. This will allow drainage from the wall to daylight into the swale and will also provide a legal route for access to the bottom of the upper wall for maintenance purposes. The details of both the wall and the drainage design will be subject to approval at the Building Permit stage.

Recommendation:

The Engineering Department recommends that request to increase the combined retaining wall and fence height from 2m to 6m be approved.

2. Subdivision & Development Servicing Bylaw No. 4163 Schedule B, Part 1, Section 4.11.4 to increase the maximum permitted length of a cul-de-sac / dead end road (proposed 8 Street SE) from 160 m to 249 m.

Background:

The Subdivision and Development Servicing Bylaw specifies that cul-de-sac dead end roads shall not exceed 160 meters in length in the Urban area. After this distance a secondary access shall be constructed which provides greater options for emergency access / egress. There is currently 249m from the intersection with phase 1 (where there are two points of access) to the centre of the proposed cul-de-sac at the south end of phase 2 on proposed 8 Street SE. 10 lots would be located beyond the 160m limit.

There are future plans to extend 8 Street SE to the north and to the south through further subdivisions and although the timing of these extensions is unclear, ultimately this road will loop both north and south and the 249m cul-de-sac is not expected to be a permanent situation.

In addition, to overcome the 160m limit, the developer has offered to increase the road width at the entrance to phase 2 to create a double width road, which would essentially provide two access roads from phase 1 to the north end of phase 2, reducing the cul-de-sac length to 200m. This would leave only the last 2 lots beyond the 160m limit, which staff would consider a minor variance. However, it is undesirable to have a double width road and both staff and the developer would prefer not to use this as a solution.

Refer to attached plan for clarification.

Recommendation:

Staff do not feel that 10 additional lots beyond the 160m limit is a significant variance, considering this is not likely to be a permanent situation and there are plans to extend 8 Street SE in the future. The option to construct a double width road is available to the applicant and this would mean that only 2 lots are beyond the 160m limit, however this option would not be recommended by staff. The Engineering Department recommends that the request to to increase the maximum permitted length of a cul-de-sac / dead end road (proposed 8 Street SE) from 160m to 249m be approved.

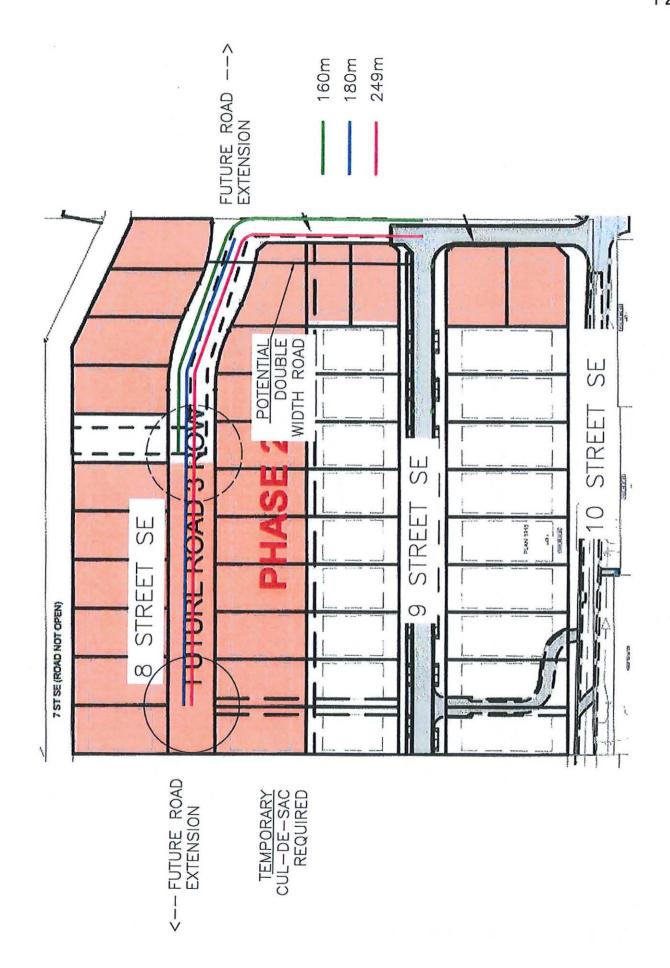
Chris Moore

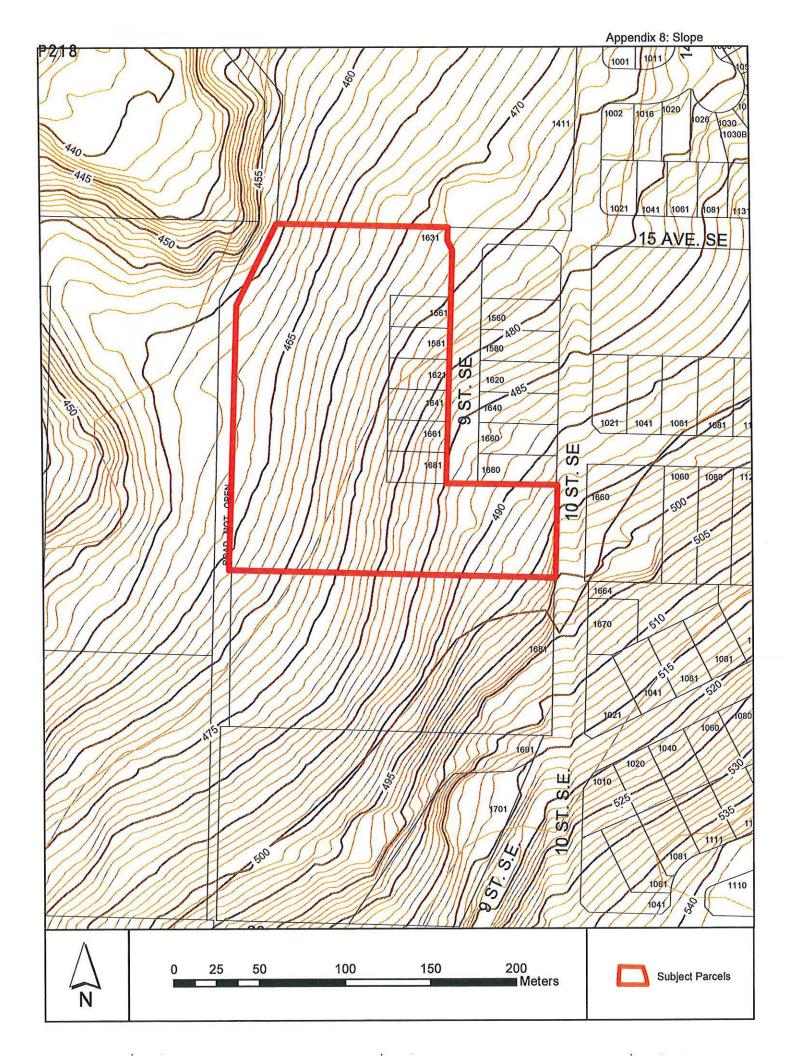
Engineering Assistant

Gabriel Bau P.Eng.,

Labrello-

City Engineer





Item 23.1

CITY OF SALMON ARM NOTICE OF PUBLIC HEARING

Notice is hereby given that the Council of the City of Salmon Arm will hold a Public Hearing virtually and in the Council Chambers at City Hall, 500 – 2 Avenue NE, Salmon Arm, British Columbia, on Monday, June 12, 2023 at 7:00 p.m.

1) Proposed Amendment to Zoning Bylaw No 2303:

Proposed Rezoning of Lot A, Section 13, Township 20, Range 10, W6M, KDYD, Plan 14385 from R-1 (Single

Family Residential Zone) to R-8 (Residential Suite Zone).

Civic Address: 2760 Auto Road SE

Location: West of 30 Street SE on the South side

of Auto Road SE

Present Use: Single Family Dwelling

Proposed Use: To rezone a single family dwelling

to permit a secondary dwelling

Owner/Agent: EWDS Holdings Ltd./D. Shoesmith

Reference: ZON-1265 Bylaw No. 4580



The staff report for the proposal is available for viewing on the City of Salmon Arm website at https://www.salmonarm.ca/431/Public-Hearing-Notices from May 30, 2023 to June 12, 2023 inclusive. Those who deem their interest affected by the proposed bylaws are urged to review the online file, contact the undersigned or phone the Development Services Department at 250.803.4000 to obtain the facts of the proposal prior to the hearing.

Meetings are being held in person and virtually. If you wish to attend virtually, a link to the virtual meeting is available in the Agenda section on our website www.salmonarm.ca.

City Council encourages the continued use of the city's website to stay informed on current Development applications and Council Agendas.

Sue Wood, Director of Corporate Services

May 31 and June 7



To: His Worship Mayor Harrison and Members of Council

Date: May 3, 2023

Subject: Zoning Bylaw Amendment Application No. 1265

Legal: Lot A, Section 13, Township 20. Range 10, W6M, KDYD, Plan 14385

Civic Address: 2760 Auto Road SE

Owner/Applicant: EWDS Holdings Ltd. (David Shoesmith)

STAFF RECOMMENDATION

THAT: a bylaw be prepared for Council's consideration, adoption of which would amend

Zoning Bylaw No. 2303 by rezoning Lot A, Section 13, Township 20. Range 10, W6M, KDYD, Plan 14385 from R1 (Single Family Residential) to R8 (Residential Suite Zone).

PROPOSAL

To rezone a single family dwelling R1 (Single Family Residential Zone) property to R8 (Residential Suite Zone).

BACKGROUND

The subject property is approximately 0.20ha (0.50ac) in area with a single family home (Appendix 1 & 2). The subject property is designated Residential Medium Density in the City's Official Community Plan (OCP), and zoned R1 (Single Family Residential) in the Zoning Bylaw (Appendix 3 & 4).

Adjacent land uses include the following:

North: Single Family Residence Zoned R1
South: Single Family Residence Zoned A2
East: Single Family Residence Zoned R1
West: Single Family Residence Zoned R1

Policy 8.3.25 of the OCP provides for the consideration of secondary suites in all Residential (High, Medium, and Low) designated areas via a rezoning application, subject to compliance with the Zoning Bylaw and the BC Building Code. Appendix 5 illustrates a two lot subdivision proposal that has been submitted for review by the applicant. The existing single family dwelling would remain on the proposed Lot 1 and the proposed Lot 2 would be vacant. Should the rezoning be adopted the R8 zoning would apply to both proposed parcels.

Based on parcel area, the subject property has potential to meet the conditions for the development of a secondary suite or detached dwelling, including sufficient space to meet the parking requirement.

COMMENTS

Engineering Department

The Engineering Department has no concerns to the rezoning of this property.

Building Department

No concerns with the rezoning.

Fire Department

No concerns.

Public Consultation

Pursuant to the Local Government Act and City of Salmon Arm Zoning Bylaw, notices are mailed to land owners within a 30m radius of the application. Newspaper ads are placed in two editions of the local paper in advance of the Statutory Public Hearing. The notice outlines the proposal and advises those with an interest in the proposal to provide written submission prior to the Statutory Public Hearing and information regarding attending the Hearing. It is expected that the Hearing for this application will be held on June 12, 2023.

Planning Department

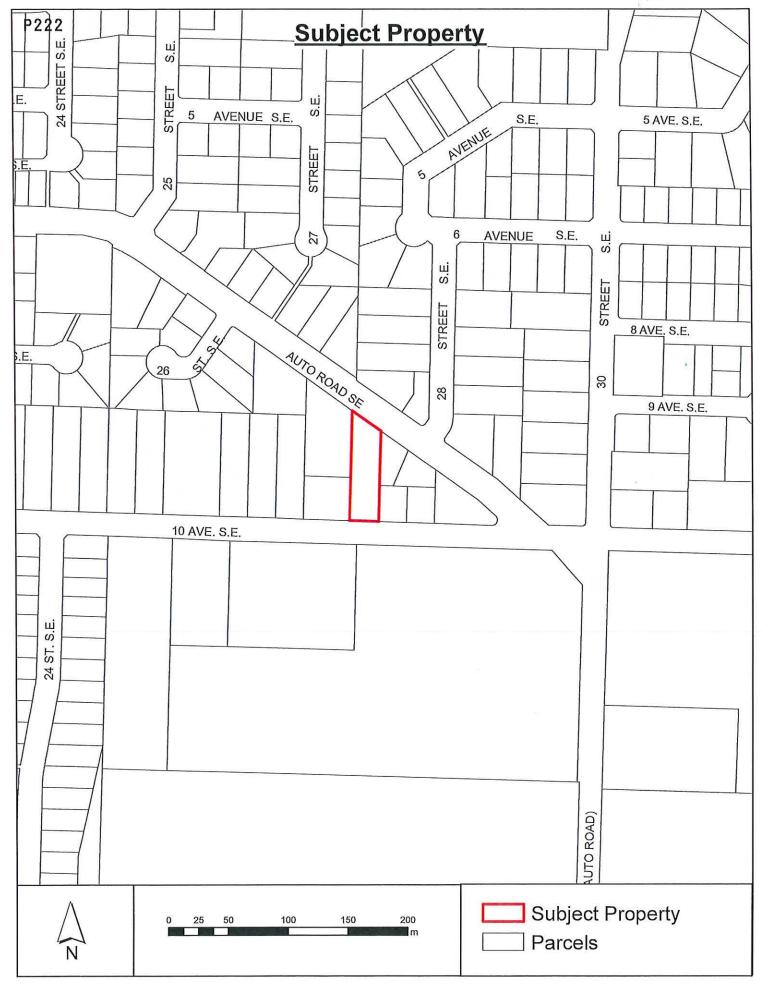
Secondary suites are supported by the previously mentioned OCP policy and the proposed layout of the unit is compliant with zoning requirements, including an additional off-street parking space for the suite. Staff support the rezoning of the subject property from R1 (Single Family Residential Zone) to R8 (Residential Suite Zone).

Prepared by: Melinda Smyrl, MCIP, RPP

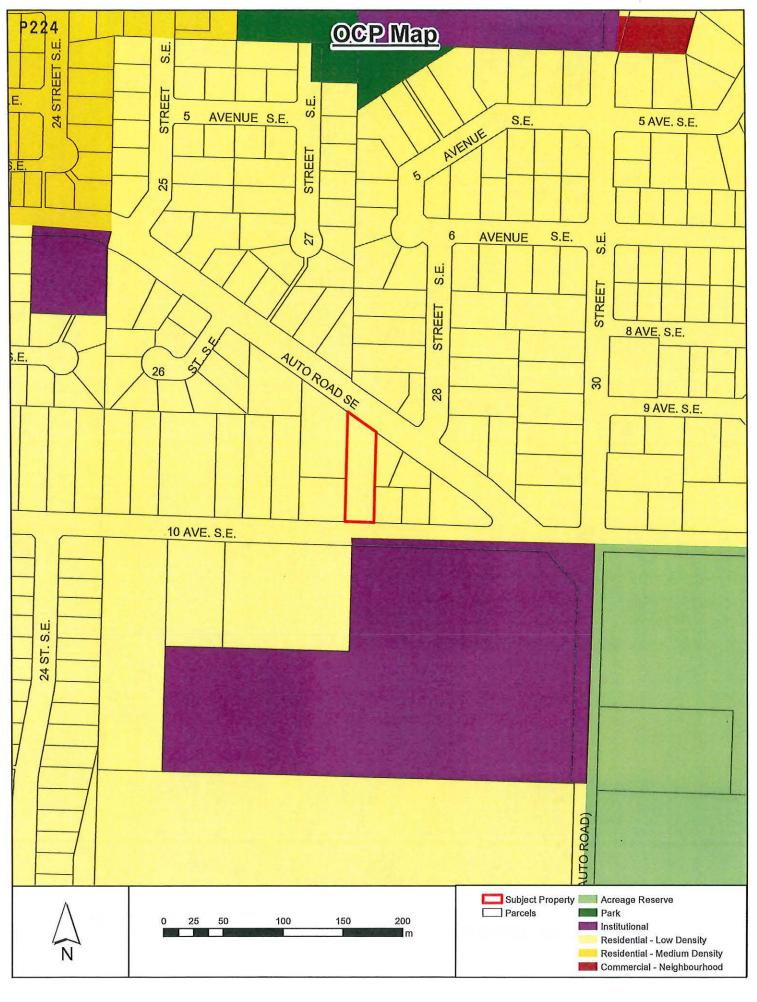
Planner

Reviewed by: Gary Buxton, MCIP, RPP Director of Planning and Community

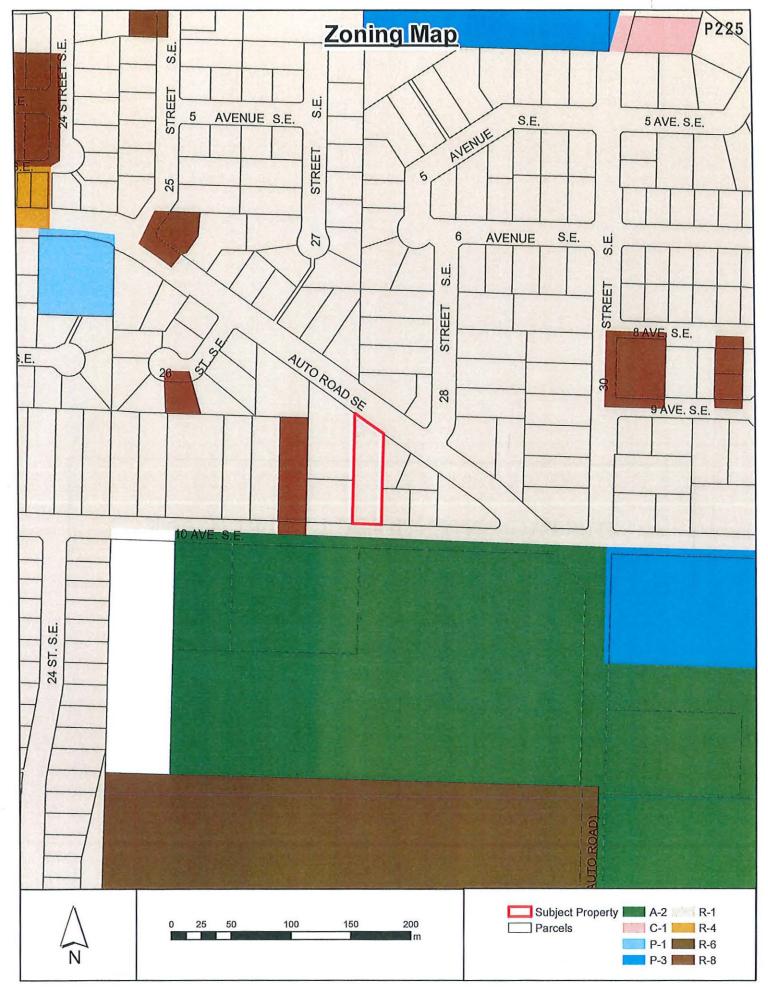
Services







APPENDIX 4



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Item 24.1

CITY OF SALMON ARM

Date: June 12, 2023

Moved: Councillor

Seconded: Councillor

THAT: the bylaw entitled City of Salmon Arm Zoning Amendment Bylaw No. 4580 be read a third and final time.

[ZON-1265; EWDS Holdings Ltd.; 2760 Auto Road SE; R-1 to R-8]

CITY OF SALMON ARM

BYLAW NO. 4580

A bylaw to amend "District of Salmon Arm Zoning Bylaw No. 2303"

WHEREAS notice of a Public Hearing to be held by the Council of the City of Salmon Arm in the Council Chambers at City Hall, 500 – 2 Avenue NE, Salmon Arm, British Columbia and by electronic means, on June 12, 2023 at the hour of 7:00 p.m. was published in the May 31 and June 7, 2023 issues of the Salmon Arm Observer;

AND WHEREAS the said Public Hearing was duly held at the time and place above mentioned;

NOW THEREFORE the Council of the City of Salmon Arm in open meeting assembled enacts as follows:

1. "District of Salmon Arm Zoning Bylaw No. 2303" is hereby amended as follows:

Rezone Lot A, Section 13, Township 20, Range 10, W6M, KDYD, Plan 14385 from R-1 (Single Family Residential Zone) to R-8 (Residential Suite Zone), attached as Schedule "A".

2. SEVERABILITY

If any part, section, sub-section, clause of this bylaw for any reason is held to be invalid by the decisions of a Court of competent jurisdiction, the invalid portion shall be severed and the decisions that it is invalid shall not affect the validity of the remaining portions of this bylaw.

3. ENACTMENT

Any enactment referred to herein is a reference to an enactment of British Columbia and regulations thereto as amended, revised, consolidated or replaced from time to time.

4. EFFECTIVE DATE

This bylaw shall come into full force and effect upon adoption of same.

5. CITATION

This bylaw may be cited as	"City of Salmon	Arm Zoning A	Amendment Bylaw No. 4580"
, ,	<i>y</i>	•	

READ A FIRST TIME THIS	23rd	DAY OF	MAY	2023
READ A SECOND TIME THIS	23 rd	DAYOF	MAY	2023
READ A THIRD TIME THIS		DAYOF		2023
ADOPTED BY COUNCIL THIS		DAYOF		2023

	MAYOR
•	CORPOR ATE OFFICER

Schedule "A"



Item 26

CITY OF SALMON ARM

Date: June 12, 2023

Moved: Councillor Lindgren

Seconded: Councillor Gonella

THAT: the Regular Council Meeting of June 12, 2023, be adjourned.

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Subdivision and Development Servicing Bylaw No. 4293



Bylaw 4293

Schedule A - Map

Schedule B - Design Manual

Part 1 - Servicing Standards

Part 2 - Specification Drawings

Part 3 - Construction Specifications

Schedule C - Forms

Schedule D – Approved Materials List

CITY OF SALMON ARM

BYLAW NO. 4293

A Bylaw to Require Works and Services in Connection with the Subdivision and Development of Land

WHEREAS Section 506 of the Local Government Act empowers the Council to enact a bylaw to regulate and require the provision of works and services in respect of the subdivision of land, to require the connection of water, sewer and drainage systems to City systems in accordance with bylaw standards, to require parcels of land not connected to City water systems to have a potable water source of a specified capacity, and to require the construction of on-site and off-site works as a condition of the approval of a subdivision or the issue of a building permit;

AND WHEREAS Section 507 of the Local Government Act empowers the Council to require an owner of land being subdivided or developed to provide excess or extended services as defined in that Section;

NOW THEREFORE, the Council of the City of Salmon Arm, in open meeting assembled, enacts as follows:

1.0 GENERAL

1.1 TITLE

This bylaw may be cited for all purposes as "City of Salmon Arm Subdivision and Development Servicing Bylaw No. 4293."

1.2 DEVELOPMENT AREAS

In this bylaw, a reference to a Development Area is a reference to an area designated on Schedule A to the bylaw.

1.3 INTERPRETATION

In this bylaw, unless the context otherwise requires:

"Approving Officer" means the person appointed by *Council* as *Approving Officer* under Section 77 of the Land Title Act, and includes a Deputy *Approving Officer*.

"Arterial Street" means a Street designated as an Arterial Street in the City of Salmon Arm Official Community Plan.

"Boulevard" means the area between a *Parcel Line* and the traveled portion of a *Street* or *Highway*, excluding curb and gutter and sidewalks.

- "Building" means any Structure used or intended for supporting or sheltering any use or occupancy.
- "Building Official" means the person or persons designated by the City of Salmon Arm as Building Inspectors, Plumbing Inspectors or Plan Checkers, and includes supervisors for these positions.
- "City" means the City of Salmon Arm.
- "City Engineer" means a person designated by the City of Salmon Arm as the City Engineer or duly authorized representative.
- "Council" means the duly elected Council of the City of Salmon Arm.
- "Collector Street" means a Street designated as a Collector Street in the City of Salmon Arm Official Community Plan.
- "Contractor" means the Owner/Developer or the person appointed by the Owner/Developer to construct the Works and Services required by this bylaw.
- "Cul-de-sac" means a Street that does not permit through traffic, with a turn-around at the end.
- "Development" means the alteration of land by the construction, installation, extension or alteration of any *Building* or *Structure* which requires a *Building* Permit.
- "Director of Development Services" means a person designated by the City of Salmon Arm as the Director of Development Services or a duly authorized representative.
- "Final Approval" means endorsement of a Subdivision plan by the Approving Officer in accordance with the Land Title Act or Strata Property Act.
- "Frontage" means the boundary of a Parcel abutting a Street.
- "Highway" includes a *Street*, road, *Lane*, walkway, trail, bridge, viaduct and any other way open to public use, but does not include a private right-of-way on private property.
- "Lane" means a public way 10.0 metres (32.8 ft.) or less in width but more than 4.5 metres (14.7 ft.) in width.
- "Low Density Residential Development" means any residential Building conforming to the Official Community Plan designation of Low Density, or any Single Family Dwelling including a detached or attached secondary suite.
- "Multi-family" means any residential Building consisting of three or more dwelling units.
- "Official Community Plan" means a community plan that is adopted by the Council of the City of Salmon Arm pursuant to Part 14, Division 4 of the Local Government Act.
- "Owner/Developer" means a person or persons registered in the Land Title Office as the Owner of a Parcel.
- "Parcel" means a lot, block, bare land strata lot, or other area in which land is held or into which it is subdivided, but does not include a *Highway*.
- "Parcel Line" means a line dividing one Parcel from another Parcel; or from a Highway; or from a natural body of water.

- "Parcel Line Adjustment" means a change in boundaries between two or more Parcels that does not create additional Parcels but shall not include a Parcel Line Adjustment where one of the Parcels is divided by a Highway, Canadian Pacific Railway Parcel or right-of-way or natural body of water and as a result of the boundary adjustment the portion divided by the Highway, Canadian Pacific Railway Parcel or right-of-way or natural body of water is created as a separate Parcel.
- "Professional Engineer" means a person registered or licensed as such under the provisions of the Engineers and Geoscientists Act of B.C.
- "Single Family Dwelling" means any Building consisting of one dwelling unit as defined in Zoning Bylaw No. 2303, as amended.
- "Street" includes a Highway, road or Cul-de-sac, but excludes a Lane, trail, path, walkway, bridge, viaduct or any private access or private roadway and includes a frontage road that is adjacent to a Controlled Access Highway.
- "Subdivision" means the division of land into two or more Parcels and includes a Subdivision under the Strata Property Act.
- "Subdivision Potential" means the property may be considered for Subdivision under the current zoning.
- "Structure" means any construction fixed to, supported by or sunk into land or water, including swimming pools, satellite dishes, parkades, and retaining walls, but does not include concrete, asphalt, brick or tile surfaced areas.
- "Works and Services" means any public facility or utility which is required by this bylaw and without restricting the generality of the foregoing includes: the supply and distribution of water, including fire hydrants; the collection and disposal of sewage; the collection and disposal of storm/drainage water; ditching; street lighting; dedicated and constructed *Highways*, including asphalt or concrete pavement surface, curb & gutter, sidewalks, trails, fences, *Boulevards*, pavement markings, traffic signals, signage, park benches, street trees, and planters, and the supply and distribution of electrical power.

2.0 ADMINISTRATION

- 2.1 The purpose of this bylaw is to require and regulate the provision of *Works and Services* in respect of the *Subdivision* and *Development* of land within the *City*.
- 2.2 As a condition of the approval of a *Subdivision* or the issuance of a Building Permit, the *Owner/Developer* of the land shall provide *Works and Services* in accordance with the standards prescribed in this bylaw and shall pay all related administration and inspection fees in accordance with the City of Salmon Arm Fee for Services Bylaw.
- 2.3 The *Council* delegates to the *Approving Officer* the authority to prescribe all forms of agreement and other documents required in the administration of this bylaw, to execute all such agreements and all covenants, statutory rights of way, park land dedication agreements and other instruments connected with the *Subdivision* or *Development* of land.
- 2.4 The *Council* delegates to the *City Engineer* the authority to maintain an approved products list for the purposes of this bylaw.
- 2.5 Unless otherwise defined herein, all words or expressions in this bylaw shall have the same meaning as like words or expressions contained in the Land Title Act, Local Government Act or Interpretation Act.
- 2.6 If any part, section, sub-section, clause, or sub-clause of this bylaw for any reason is held to be invalid by the decision of a Court of competent jurisdiction, the invalid portion shall be severed and the decision that it is invalid shall not affect the validity of the remaining portions of this bylaw.

3.0 DESIGN REQUIREMENTS

The *Owner/Developer* shall design and construct at their expense:

- 3.1.1 All onsite Works and Services specified in Table 1; and,
- 3.1.2 Except as otherwise provided in Section 5.0 of this bylaw, all offsite *Works and Services* specified in Table 1 on that portion of a *Highway*(s) immediately adjacent to the site, up to the centre line of that adjacent *Highway*(s), as their requirement is directly attributable to the *Development*.

The determination of which Works and Services are required shall have regard for:

- (i) a need for increased flow or capacity of the service(s); or
- (ii) a need to upgrade the service(s) due to safety concerns, including but not limited to concerns regarding integration with existing services, created by the *Subdivision* or *Development* permitted by the Building Permit.
- 3.2 The City Engineer may require an *Owner/Developer* to design and construct *Works and Services* that are excess or extended services as defined in Section 507 of the *Local Government Act*, and for the purposes of Section 508 of the *Local Government Act* may:
 - 3.2.1 Determine the proportion of the cost that relates to the excess or extended nature of the services;
 - 3.2.2 Determine what parcels of land will be served by the services;
 - 3.2.3 Determine what part of the cost is associated with service to each of the benefiting parcels;
 - 3.2.4 Determine the amount of a latecomer charge to be imposed in respect of each of the benefiting parcels;
 - 3.2.5 Execute on behalf of the *City* a latecomer agreement in respect of the services, and prescribe a form for such agreements; and
 - 3.2.6 Levy latecomer charges in accordance with such agreements including simple interest at the rate of Prime Interest Rate plus two percent (2.0%), as established by the financial institution with which the *City* deals, calculated annually, and pay such charges and interest to the *Owner/Developer* in accordance with the terms of the relevant agreement.
- 3.3 Where this bylaw requires that the *Owner/Developer* construct excess or extended services as defined by Section 507 of the Local Government Act or the City Engineer requires excess or extended services under Section 3.2 of this bylaw, Council may deem the costs of these Works and Services to be excessive. In such a case, the costs shall be the responsibility of the *Owner/Developer* and the *Owner/Developer* may enter into a latecomer agreement in accordance with Section 508 of the Local Government Act, in the

- form prescribed for that purpose by the *City Engineer*. Where the *City* agrees to cost share a portion or all of the excess or extended services, then the latecomer agreement shall include cost sharing provisions.
- 3.4 All *Works and Services* required for *Subdivision* or *Development* shall be constructed, at a minimum, to the specifications set out in Schedule B unless a change in the Design Criteria or Technical Specifications is required for engineering reasons and has been approved in writing by the *City Engineer*, and such a change does not alter the service level prescribed by this bylaw. Compliance with the specifications shall be certified on engineering drawings by a *Professional Engineer*.
- 3.5 Every *Parcel* created by *Subdivision* shall have not less than one *Frontage* on a *Street* and the *Street* or *Streets* shall be constructed to the standards and specifications set out in Schedule B.
- 3.6 Every *Street* in a *Subdivision* shall be constructed to the standards and specifications set out in Schedule B, according to the level of service described in Section 4 and 5 of this bylaw.
- 3.7 The minimum *Parcel Frontage* shall be not less than ten percent (10%) of the perimeter of the *Parcel*, except where lesser *Frontage* is approved by the *Approving Officer*.
- 3.8 Panhandle *Parcels* shall not be created by *Subdivision* unless:
 - 3.8.1 The *Parcel* has no further *Subdivision Potential* or, where the *Parcel* has further *Subdivision Potential*, the panhandle access is located such that as future *Subdivision* occurs it may be dedicated and constructed as a *Street*;
 - 3.8.2 The *Parcel* contains the required minimum *Parcel* area as specified in the Zoning Bylaw, exclusive of the panhandle; and
 - 3.8.3 The width of the panhandle is at least:
 - 6.0 metres where the Parcel has no further Subdivision Potential;
 - 20.0 metres where the Parcel has further Subdivision Potential; or,
 - 8.0 metres where a covenant is placed on title limiting the *Development* to a strata *Subdivision* in a form acceptable to the *Approving Officer* and the *Director of Development Services*.
- 3.9 Statutory rights-of-way shall be provided at time of *Subdivision* where water, sewer or drainage works required by this bylaw are not located in dedicated highways, and statutory right of way areas shall be of the following minimum widths:

# of Utilities in Corridor			Width of Utility Right-of-Way
One (1)	-	Utility	6.0m
Two (2)	-	Utilities	6.5m
Three (3)	_	Utilities	7.0m

Statutory rights-of-way widths may be increased as determined by the *City Engineer* to satisfy slope and access requirements, size and depth of utility.

4.0 SERVICING REQUIREMENTS

- 4.1 All *Works and Services* required to be designed, constructed and installed at the expense of the *Owner/Developer* shall be designed, constructed and installed to the standards prescribed in this bylaw before the *Approving Officer* approves the *Subdivision* or the *Building Official* issues the Building Permit unless the Owner:
 - a) deposits with the *City* a cash deposit, or an irrevocable Letter of Credit in a form and from a financial institution, acceptable to the *City*, in the amount of 125% of the construction cost, as estimated by the *Owner/Developer's Professional Engineer* and accepted by the *City Engineer*, for installing and paying for all *Works and Services* required under the bylaw; and
 - b) Enters into a Servicing Agreement with the *City* in the form prescribed for that purpose by the *City Engineer*, to construct and install the required *Works* and *Services* by a specified date or forfeit to the *City* the Security Deposit.
- 4.2 Where the *Works and Services* required under this bylaw cannot, in the opinion of the *City Engineer*, be constructed in accordance with sound civil engineering principles due to the limited scale of the project, the time of the year in which they would be constructed or any other technical reason, then the requirement may be fulfilled by the payment of cash equal to 100% of the amount estimated by the *City* as the cost of the required *Works and Services*. This cash payment may be used by the *City* at a time in the future, chosen by the *City* in its sole discretion, to construct such *Works and Services*.
- 4.3 Prior to the construction or installation of any *Works and Services*, the *Owner/Developer* shall submit for approval two (2) sets of engineering drawings in accordance with Schedule B. If the drawings are satisfactory, one set will be stamped "Approved for Construction" by the *City Engineer* and returned to the *Owner/Developer*. "Approved for Construction" engineering drawings shall be valid for a period of twelve (12) months.
- 4.4 All *Works and Services* shall be installed by the *Owner/Developer* to the *Parcel Line* or the extension thereof of the *Subdivision* or *Parcel* being developed that is furthest from the existing termination point of *Works and Services* except
 - 4.4.1 where it is essential that *Works and Services* be extended beyond the Subdivision or *Parcel* to tie into *City* water mains, sanitary sewer mains, storm sewer mains or drainage systems; or
 - 4.4.2 where in the opinion of the *City Engineer* extension of a particular work or service would result in unutilized infrastructure, in which case the work or service shall terminate at the point specified by the *City Engineer*; or
 - 4.4.3 where the *Approving Officer* has approved a phased *Subdivision* with a separate plan of *Subdivision* required for each phase, in which case the *Works and Services* need be constructed only to the *Parcel Line* in the current phase that is furthest from the existing termination point.
- 4.5 All *Works and Services* which are to become the property of the *City*, shall, unless situate upon, over or under a *Highway*, be the subject of a grant of statutory right-of-way in a form acceptable to the *City*.

- 4.6 Unless otherwise specifically approved by the *City Engineer*, the design and construction of new or modifications to existing pump stations, control stations, meter stations, and reservoirs for the *City*'s water and sewer utilities shall be undertaken by the *City*. Where *Owner/Developers* are under this bylaw financially responsible for the work, they shall post adequate security prior to the *City* commencing work, in the amount estimated by the *City Engineer* as the cost of the work, in the form of cash or an irrevocable letter of credit. Any deficiency in the security in relation to the actual cost of the work shall be a debt of the *Owner/Developer* to the *City*, and any surplus shall be returned to the *Owner/Developer*.
- 4.7 Upon completion of all *Works and Services*, the *Owner/Developer* shall be responsible for and shall make good all defects, imperfections, or deficiencies which become apparent, during the one-year period following the date of issuance by the *City Engineer* of a Certificate of Substantial Completion in respect of the *Works and Services* (the "Maintenance Period").
- 4.8 Should the *Owner/Developer* or *Contractor* fail to make good any defects, imperfections, or deficiencies after being given at least seven days notice in writing by the *City Engineer* during the Maintenance Period, the *City* shall be entitled to make alternative arrangements for the execution of the repairs and to recover the costs from the *Owner/Developer* or *Contractor*.
- 4.9 Upon expiration of the Maintenance Period and correction of all deficiencies and defects in the *Works and Services*, the *City Engineer* shall return any unused security to the *Owner/Developer*.
- 4.10 All traffic signage and pavement markings required on *City* property or lands to be transferred to the *City* will be installed by the *City* at the Owner's expense. Where required by the *City Engineer*, the *Owner/Developer's* engineering consultant shall provide traffic signage and pavement marking drawings to the *City*.

TABLE 1: Service Levels for Subdivision and Development (1)

		DEVELOPMEN		MENT ARI	ENT AREA		
SERVICE	SERVICE LEVEL		Rural	Industrial	Light Industrial	City Centre	Urban Hillside
Highways:	RD-1 - Urban Local (18m)	Х	l]	X
	RD-2 - Urban Local (20m)	X	[Х
	RD-3 - Urban Collector (20m)	X	[]	Х
	RD-4 - Urban Arterial (25m)	X (7)]	X (7)
Road Standards, including curb,	RD-5 - Town Centre (Varies)	Х				Х	T
gutter, paving, etc. shown on	RD-6a - Industrial Area (20m)			Х		1	1
applicable specification drawing.	RD-6b – Light Industrial (20m)				Х	1	1
Collector and Arterial Road Standards shall be applied where	RD-7 - Rural Local (20m)		Χ	1			1
designated in the Official	RD-8 - Rural Collector (20m)		Χ	Х		1	1
Community Plan	RD-9 - Rural Arterial (25m)		X (7)	X (7)	1	1	1
	RD-14 – Canoe Beach Drive (20m)	Х			1	1	1
	RD-15 - Urban Local Hillside (18m)			1		1	Х
	RD-16 – Urban Single Lane Local Hillside (12m)			1		1	Х
Road dedication	Based on applicable road cross-section (2)	Х	Х	Х	Х	Х	Х
XA7 - L	City Water System including fire hydrants	X	(8)	X	X	X	X
Water	Alternate Water Supply		X (6)			1	1
C ::	City Sewer System	X		X (3)	X (3)	Х	X
Sanitary	Sewage Disposal to Ground System		Χ	Х	Х	1	
	City Storm Sewer System	Χ		X	X	Χ	X
Storm	Open Channel System	X (10)	Χ	Х	Х		X (10)
	Ground Discharge	X (10)	Χ	Х	Х		X (10)
	Overhead Distribution to Property Line	(4)	Х	Х	Х		(4)
Hydro, Telecommunications (Civil	Underground Distribution to Property Line	X (5)	1			X (5)	X (5)
Works Required)	Overhead Service (within lot)	(4)	Χ	Х	Х		(4)
	Underground Service (within lot)	X				Х	Х
Natural Gas (Optional)	Underground	Х	Х	X	X	Х	Х
Street Lighting	Schedule B, Part 1, Section 8.0	X	(9)	Χ	Χ	Х	X
	One Side (Limited Local)	Х	Х	Х	Х		X
Sidewalk/Multi-use Path (11)	Two Sides (inc. high & medium density local)	Χ				Χ	Х
Bike Lanes / Paved Shoulders (11)			Х	X			
Street Tree & Blvd. Appurtenances	Street Trees/Park Benches/Planters					Χ	
Trail and Roadside Corridors	CGS-7 to CGS-12	Х	Х	Х	Х	Х	X

- 1 The applicable service level is indicated with an X.
- 2 Dedication is capped at a 20 metre wide ROW and is not required for Development. Statutory ROW may be required to accommodate infrastructure.
- Required where the *City* system is within 100 metres and a gravity connection is possible.
- 4 Small *Subdivisions* and *Developments* do not require underground distribution where they are in an area of existing overhead distribution and the *City Engineer in consultation with BC Hydro* approves overhead works.
- Three-phase BC Hydro distribution to be located underground only where a tri-party cost sharing agreement is in place between the Owner/Developer, BC Hydro and the City.
- 6 The Owner/Developer is required to grant a potable water treatment covenant in a form acceptable to the Approving Officer.
- 7 The Owner/Developer is to construct adjacent arterial road Frontage with one traffic lane (second lane funded by City if required).
- 8 Extension of municipal system into the rural area is permitted where supported by the OCP.
- 9 If street lighting is required for safety purposes. Rural Street lighting covered under Policy 5.5.
- With specific approval from the City Engineer as part of an integrated stormwater management plan. Owner/Developer may be required to grant an Alternative Stormwater maintenance covenant in a form acceptable to the Approving Officer and the Director of Development Services.
- 11 Sidewalk, Multi-use Paths and Bike lanes shall be installed as per the appropriate road cross-section where indicated in the OCP

5.0 EXEMPTIONS

Exemptions to the servicing requirements in Section 4.0 are permitted as follows:

- 5.1 At the time of *Parcel Line Adjustment*, the provision of new *Works and Services* shall not be required where:
 - 5.1.1 Existing *Works and Services* have sufficient capacity for any demands directly attributable to the proposed *Parcel Line Adjustment*.
- 5.2 At the time of *Development*, paving of a *Street* shall not be required where:
 - 5.2.1 The *Development* is located in a Rural Development Area; and
 - 5.2.2 The *Development* has *Frontage* on a *Street* constructed to a gravel standard in accordance with Schedule B (Specification Drawing No. RD-7).
- 5.3 At the time of *Development*, the provision of new *Works and Services* shall not be required where:
 - 5.3.1
 - a) The *Development* is limited to the construction of an addition to a *Low Density*Residential Dwelling or the construction of a *Building* or *Structure* accessory to a

 Low Density Residential Dwelling; and
 - b) Existing *Works and Services* have sufficient capacity for any demands directly attributable to the proposed *Development*.

5.3.2

- a) The *Development* is limited to the construction of an addition or the construction of a *Building* or *Structure* accessory to any existing building not addressed in Section 5.3.1;
- b) The size of the addition or accessory building is equal to or lesser than 50 m2; and
- c) Existing *Works and Services* have sufficient capacity for any demands directly attributable to the proposed *Development*.

5.3.3

- a) The *Development* is limited to a façade upgrade or internal renovation on any existing *Building*; and
- b) Existing *Works and Services* have sufficient capacity for any demands directly attributable to the proposed *Development*.

- 5.4 At the time of *Subdivision*, the provision of underground distribution wiring, ornamental street lighting, constructed *Highways* including curb and gutter, sidewalks, trails, roadside corridors, *Boulevards* and signage shall not be required where:
 - 5.4.1 The Subdivision is located in an Urban Development Area;
 - 5.4.2 The *Parcel* being subdivided is zoned and intended for a *Low Density Residential Development*;
 - 5.4.3 The total *Parcel* area is less than 1800m2;
 - 5.4.4 New Street or Street extensions are not required to service the Subdivision; and
 - 5.4.5 Existing *Works and Services* have sufficient capacity for any demands directly attributable to the proposed *Development*.
- 5.5 At the time of *Development*, the provision of underground distribution wiring, ornamental *Street* lighting, paved frontage roads, curb and gutter, sidewalks, trails, roadside corridors, *Boulevards* and signage shall not be required where:
 - 5.5.1 The *Development* is zoned and intended for construction of a *Low Density Residential Development*;
 - 5.5.2 New *Highways* or highway extensions are not required to service the *Development*; and
 - 5.5.3 Existing *Works and Services* have sufficient capacity for any demands directly attributable to the proposed *Development*.
- 5.6 At time of *Development* where a sanitary main extension would be required to provide the sanitary connection under Section 4.1 of this bylaw, connection to the City sanitary sewer system shall not be required where:
 - 5.6.1 The *Development* is located in an Urban Development Area;
 - 5.6.2 The *Development* is zoned and intended for the construction of a *Low Density Residential Development* or the construction of an addition to a *Low Density Residential Development* or the construction of a *Building* or *Structure* accessory to a *Low Density Residential Development*;
 - 5.6.3 The closest point of the subject property is greater than 100 metres away from the closest accessible termination of the City sanitary sewer system.
 - 5.6.4 New highways or highway extensions are not required to service the development; and
 - 5.6.5 The Owner/Developer agrees to install an on-site sanitary collection and treatment system in accordance with the Sewerage System Regulation.

CITATION AND REPEAL

- 5.7 "City of Salmon Arm Subdivision and Development Servicing Bylaw No. 4163" and amendments thereof are hereby repealed.
- 5.8 This bylaw may be cited as "City of Salmon Arm Subdivision and Development Servicing Bylaw No. 4293"

READ A FIRST TIME THIS	DD	DAY OF	Month	2023
READ A SECOND TIME THIS	DD	DAY OF	Month	2023
READ A THIRD TIME THIS	DD	DAY OF	Month	2023
ADOPTED BY THE COUNCIL	DD	DAY OF	Month	2023

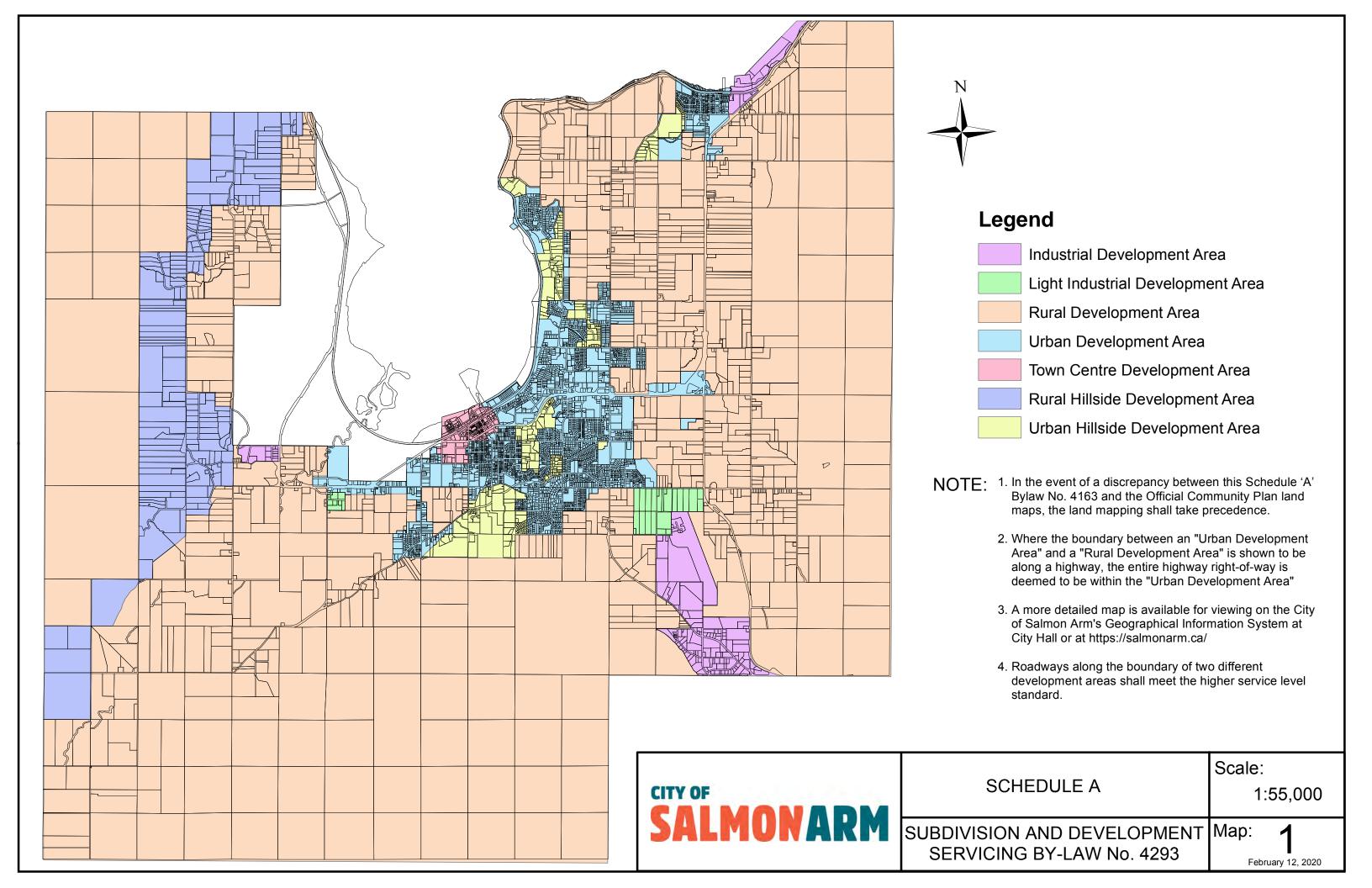
"A. HARRISON" MAYOR

<u>"E. JACKSON"</u> CORPORATE OFFICER

Subdivision and Development Servicing Bylaw No. 4293 Schedule "A"



CITY OF SALMON ARM MAP 1



Subdivision and Development Servicing Bylaw No. 4293 Schedule "B" – Part 1



CITY OF SALMON ARM DESIGN CRITERIA

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GENERAL: The following design standards are to be used as requirements of all developments except where otherwise exempt in the bylaw or standards. Where a proposed design meets the level of service prescribed by the bylaw, alternative design solutions may be evaluated and approved at the discretion of the City Engineer.

1.0 INTRODUCTION

1.1 The Use of This Design Criteria Manual

This Design Criteria Manual replaces all previous versions and revisions. Always ensure that you are using the most recent version. It is the Design Engineer's responsibility to verify that the current criteria are being used prior to initiating and submitting detailed design.

1.2 Intent of These Standards

This manual has been prepared for the Design Engineer and the development community for the design of engineering facilities and systems in the City of Salmon Arm. It is intended to provide the minimum design criteria and standards for proposed City works. The Design Engineer remains fully responsible to ensure that designs meet the minimum design criteria, accepted engineering principles, and are adequate for the site conditions and anticipated use.

1.3 Application of These Design Criteria

The minimum criteria and standards defined in this manual shall apply to the preparation of all engineering designs and drawings for projects in the City of Salmon Arm. Design Engineers are encouraged to seek innovative and superior solutions, where appropriate, to achieve better technical and economical solutions. A Design Engineer who wishes to adopt criteria not specifically included in or variant from those within this manual, shall justify the proposed change in a signed and sealed letter/report submitted to the City Engineer for review and approval. Submissions must demonstrate that the proposed change is equivalent to or better than the standards contained in this manual and provides the level of service prescribed by the bylaw.

The Design Engineer must be satisfied that the design criteria contained herein are applicable to the project at hand, and must apply more stringent criteria where appropriate. The Applicant and Design Engineer are fully responsible for designing to standards which exceed these standards when specific site conditions dictate that more stringent performance measures are required. All design and construction details for City infrastructure shall be in accordance with this Design Criteria Manual, the Subdivision and Development Services Bylaw, Fire Prevention Bylaw, other applicable Bylaws and with the Standard Drawings and Specifications, as adopted by the City.

Where conflicts or discrepancies appear between this manual, Standard Drawings and/or Specifications, the Design Engineer shall review the conflict or discrepancy with the City and shall obtain the City's approval to an agreed drawing or specification prior to proceeding. The criteria that shall apply are those in place at the time of the latest letter of Preliminary Layout Approval (PLA) or extensions thereto, in the case of subdivision applications.

1.4 Revisions to These Design Criteria

The criteria and design parameters contained in this manual are subject to review and re-evaluation and the City reserves the right to initiate revisions or additions to these criteria as and when it deems it is necessary to make such revisions.

The City encourages submissions from Design Engineer's wishing to amend the City's Design Criteria. Such submissions shall be in a report format, signed and sealed by a Professional Engineer (where info is technical in nature), and shall include clean and succinct expressions of concern, suggestions for alternatives including benefits and recommendations proposed to address improvements to the current Design Criteria.

The City may, at its sole discretion, review, assess and accept, adopt, or reject in whole or in part, the submissions and/or the recommendations from a Design Engineer for inclusion within the Design Manual at a future date.

1.5 Interpretation of the Design Criteria

The City Engineer reserves the right to the final decision with regard to the interpretation of the intent of the Design Criteria, and with regard to the acceptability of changes from the Standards, or Standards proposed by the Design Engineer.

1.6 Statutory Requirements for Approvals

The Design Engineer shall remain responsible for compliance with all the statutory requirements of the City and other relevant authorities which are mandated to regulate and approve such works and shall arrange for and secure all approvals from the appropriate authorities.

Where this Design Criteria Manual refers to: bylaws, acts, regulations and standards, this shall mean the most recent edition or amendment of the referenced document. It is the responsibility of the Design Engineer to ensure the most recent edition of amendment is being used.

Where due to amendment of statutory requirements, conflicts or inconsistencies with this Design Criteria Manual arise, the Design Engineer is responsible for applying the more stringent requirements, and shall refer the issue to the City Engineer.

1.7 Certifications

Design Engineers shall accept responsibility for all aspects of their design and inspections associated with their design. The Design Engineer must be in good standing and registered with the Engineers and Geoscientists BC (EGBC) and be currently practicing in the appropriate engineering discipline. Additionally the Engineer's Firm must have a Permit to Practice from EGBC. By way of the Design Engineer's seal and Permit to Practice number they are certifying that the works have been designed and inspected to good engineering standards and in accordance with the latest edition of the City of Salmon Arm Design Criteria Manual, Standard Drawings and Specifications adopted by the City of Salmon Arm. All submissions including drawings, reports, calculations, cost estimates, inspection reports or other such information as required are to be submitted under the Design Engineer's seal and signature.

2.0 PRE-DESIGN, DESIGN and CONTRACT ADMIN

2.1 Legal Surveys

Project legal survey and preparation of plans for registration at the Land Title Office, shall be completed by a registered British Columbia Land Surveyor (B.C.L.S).

All project legal survey plans prepared by a B.C.L.S shall be submitted in electronic format.

2.2 Design Surveys

Surveys shall be conducted in a manner so as not to create a nuisance to traffic or the general public. The permission of registered property owners is required before entering private property.

All elevations shall be referenced to Geodetic Survey of Canada (GSC) datum.

All drawing coordinates shall be consistent with established survey coordinates to the City's benchmark system.

2.3 Geotechnical Report

Where a geotechnical engineering review is required in accordance with the provisions contained in this bylaw or by the Approving Officer, the Owner/Developer shall appoint a qualified Professional Engineer or Geoscientist to complete a geotechnical investigation and report addressing the potential areas of concern as listed below and as required.

The City requires that all works and services installations shall have a level of safety for any and all geotechnical failures with a 10.0% probability of failure occurring in a 50 year period (a return period of 1:500 year), or the prevailing standard as set by the B.C. Building Code, whichever is more stringent.

The geotechnical report must clearly state that the land is safe for the intended purpose and that the City of Salmon Arm may use and rely on the findings and recommendations contained in the report.

The Owner/Developer shall be responsible for completing the recommended improvements prior to Subdivision or Development and/or may be required to register a Section 219 Restrictive Covenant.

2.3.1 Category A - Building foundation design and site drainage

- 1) The design engineer shall undertake field investigations for the purpose of classification of the native soils in the laboratory. Where groundwater is prevalent the depth of the groundwater table shall be determined.
- 2) All necessary test pits or boreholes shall be logged and locations accurately shown on a site plan and attached as an addendum to the report.
- 3) The details and results of the laboratory analysis is to be provided in the report. In addition, the engineering properties of the subsoils must also be provided.
- 4) The engineer must review the site and provide a detailed assessment and recommendations for the items below. Where recommendations vary from B.C. Building Code requirements a Section 219 covenant must be registered on title to

ensure compliance with geotechnical report and future related works shall be supervised by a qualified engineer.

- a) General grading and site preparation;
- b) Ground preparation for foundation/crawl spaces;
- c) Design specifications for any retaining walls to be constructed;
- d) Foundation perimeter, roof and general site drainage including a recommendation on connecting roof leader drainage to the storm sewer where necessary;
- e) Frost protection for foundations, and
- f) Provide general comments on the constructability of the proposed development and make any additional recommendations deemed necessary to meet the prescribed level of safety.

2.3.2 Category B - Pavement Structural design for private access corridors and public roads

- 1) The engineer must complete field investigations, laboratory analysis and reporting as noted in Category "A", Items 1 and 2.
- 2) The engineer must complete pavement evaluation and design based on the AASHTO guide (latest version) based on a 25 year design life. The pavement structure design must be no less than that recommended in accordance with the provisions contained in this bylaw.
- 3) The report must provide detailed recommendations on the following:
 - a) Subgrade preparations;
 - b) Sub-base, base and asphalt construction methods;
 - c) Construction of sidewalks and curb & gutter, and
 - d) Trench excavation and backfill within road allowances and statutory rights-of-way.

2.3.3 Category C - Landslide Assessments for Proposed Development

Where a geotechnical engineering report in reference to a potential land stability risk is required by the Approving Officer, for subdivision approval, issuance of a development or building permit, the report must be conducted in accordance with the "Guidelines for Legislated Landslide Assessments for Proposed Residential Development in British Columbia" as prepared by the Association of Professional Engineers and Geoscientists of BC, as amended.

The Geotechnical Engineer shall provide an APEGBC Appendix D: Landslide Assessment Assurance Statement with the submission of each report and with any revised report.

2.4 Flood Risk Assessment

Where an engineering report in reference to a potential flood risk is required by the Approving Officer, for subdivision approval, issuance of a development or building permit or for a flood plain bylaw exemption, the report must be conducted in accordance with the "Professional Practice Guidelines – Legislated Flood Assessments in a Changing Climate in BC" as prepared by the Association of Professional Engineers and Geoscientists of BC, as amended.

2.5 Traffic Impact Analysis

Where a Traffic Impact Analysis (TIA) is required by the Approving Officer, for rezoning or subdivision approval, the Owner/Developer shall appoint a qualified Professional Engineer to complete a TIA and report.

The Terms of Reference for the TIA shall be prepared by the Engineer and submitted to the City for approval prior to proceeding with the TIA. A sample Terms of Reference can be obtained from the City's Engineering Department.

2.6 Qualified Professional Engineer

Where works and services are required in accordance with the provisions contained in this bylaw, the Owner/Developer shall appoint a qualified Professional Engineer hereinafter referred to as the Consulting Engineer, to undertake all project engineering survey, design, field reviews and record drawings in accordance with the provisions of this bylaw. The Owner/Developer shall provide a confirmation of Professional Assurance, Certificate Schedule 'C', F-10 signed by a Professional Engineer

Proof of Engineers Professional Liability Insurance (Errors and Omissions) shall be provided for all projects where the cost of the works and services exceeds One Hundred Thousand Dollars (\$100,000.00)

2.7 Design Drawing Submission

The design drawing submission shall be provided electronically in pdf format and shall also include the following:

- Two (2) complete sets of ANSI 'D' or ARCH 'D' size design drawing prints (See Section 2.8), date stamped, sealed and signed by a Professional Engineer, for approval. All design drawings shall be submitted in the City of Salmon Arm standard format as shown in the Specifications Drawings. Additional sets of drawings are to be submitted upon request at the Owner/Developers cost
- Design sheets and calculations for proposed storm and sanitary sewer installations.
- Construction estimates for (a) off-site works and services and (b) on-site works and services shall be submitted with the design drawings. These construction estimates shall be prepared in a City of Salmon Arm format and shall reflect current construction costs in Salmon Arm and shall be signed and sealed by a Professional Engineer.
- PDF copies of the approved Hydro, Telecommunication, Natural Gas and CATV servicing drawings.
- Provincial Health Certificate to Construct Water Works for water works installations (This is generally received directly from IHA but if not received, will be requested from the Engineer).

2.8 Design Drawings

A description of each of the most commonly required drawings is included below which includes a general guideline of the information to be included on each drawing.

2.8.1 Submission Set

Where applicable the following design drawings shall be submitted:

- Project Cover Sheet / Key Plan Shall indicate the Designers Name, Address, telephone and Fax Number, the City's Project Number, the Site Location, the Legal Description of the properties involved, and an Index of the Design Drawings.
- General Notes & Details Road cross sections on profile drawings, all other miscellaneous details on plan drawings.
- General Arrangement Plan shall be a plan view drawing(s) at 1:1000 scale or 1:500 as appropriate, showing all existing and proposed infrastructure (including private utility company servicing and street lighting)
- Sanitary Drainage Plan shall indicate proposed drainage boundaries for each pipe reach and their associated area, design flow/unit, population/unit. All external flows and future flows shall be indicated. Plans shall show basic lot information and all sanitary related infrastructure.
- Storm Drainage Plan Shall indicate existing and proposed drainage boundaries for each pipe reach and their associated area and runoff coefficient. All external flows and future flows shall be indicated. Plans shall show basic lot information, existing contours, proposed grading and all storm related infrastructure.
- Plan and Profile Drawings shall contain plan view (top) and profile (bottom) at 1:500 horizontal, 1:50 vertical, road design including curb and gutter, sidewalks and other related surface works, storm and sanitary sewers, service connections and related appurtenances, waterworks, service connections, fire hydrants and related appurtenances. Pipes and manholes shall be drawn at actual size in profile and hatching shall distinguish between water, sanitary and storm. Pipe widths shall be shown in plan view for pipes 600mm in diameter and larger and in profile view for all pipe diameters.
- Grading Plan shall thoroughly detail any changes to existing grading both on-site and off-site. The plan shall provide adequate information to confirm overland flow patterns and routes, conformity to City design standards, impacts to adjacent lots, and constructability of lot (refer to Section 3.2.1). Pre-grade values shall be provided for lots that are less than three (3) times the minimum lot sizes. Pre-grade values are the depths below final grade that lots/roads should be left at pre-development to account for excavation spoils during construction bringing the site up to the final approved grade.
- Pavement Marking and Signage Plan shall indicate all required pavement marking and signage including all required layout dimensioning.
- Utility Coordination Plan shall indicate locations of all shallow utilities (hydro, tel, cable, gas), road crossing locations and all above ground appurtenances such as

pedestals, transformers, street lights, manholes, hydrants, street trees, inspection chambers, etc.

- Illumination Plan shall indicate lamp locations, lamp (LED) types, spacing, areas of illumination and calculations. Illumination plan may require an exclusive site plan or may be included on General Arrangement Plan, depending on complexity of proposed work.
- Erosion and Sediment Control Plan shall indicate all erosion and sediment control infrastructure and appurtenances (refer to Section 3.1).
- Landscaping and Irrigation Plan shall indicate the location of the irrigation system and appurtenances as well as any proposed plantings (refer to Section 10.0).
- Lot Grading Plan (Building Permits) shall thoroughly detail any changes to existing grading both on-site and off-site and any deviations from the approved grading plans. The plan shall provide adequate information to confirm overland flow patterns and routes, building elevation, conformity to City design standards, impacts to adjacent lots, driveway slopes, boulevard slopes, and constructability of lot (refer to Section 3.2.1).

Where colours are used on drawings, they should conform to best practices (sanitary is red, storm is green, water is blue).

2.8.2 Existing Information

Existing information shall be illustrated with grayed back line work and/or dashed line types.

2.8.3 <u>Drawing Scale</u>

The scale of all design drawings with exception of the general arrangement drawing shall be 1:500 Horizontal, 1:50 Vertical. Any deviation shall be first approved by the City Engineer.

2.9 Design Drawing Approval

City review and acceptance of Engineering Plans does not confirm the accuracy or adequacy of the design; nor does the City accept responsibility for any damages or costs incurred due to errors, omissions, or deficiencies in the design or location of any existing or new works and services.

2.10 Pre-Construction Requirements

2.10.1 General

No construction shall occur unless and until engineering drawings have been accepted by the City. Such acceptance is indicated only by the signature of the City Engineer, or authorized delegate on the submitted design drawings and completed Permission to Construct, Schedule 'C', Form F-1. These drawings shall be referred to as the "CSA Approved Design Drawings".

2.10.2 <u>Documentation</u>

The Owner/Developer shall provide the following documentation after acceptance of the Engineering Submissions and before commencing any works within City of Salmon Arm rights of way as follows:

- A signed and sealed Servicing Agreement where required by the City Engineer.
- Proof of Insurance in accordance with the terms and conditions provided in the Servicing Agreement, naming the City of Salmon Arm as an 'Additional Insured'.
- Performance Security equal to 125% of the estimated off-site servicing costs (cash or clean irrevocable letter of credit).
- Professional Assurance Certificate, Schedule 'C', Form F-8, signed by a Professional Engineer.
- A copy of the Work Safe BC 'Notice of Project' and 'Letter of Good Standing'
- Prime Contractor Pre-construction Form, duly completed.
- A testing schedule for quality control of the constructed works including the name of the testing agency and the contact person.
- Outside Provincial and Federal Resource Agency approvals obtained (Ministry of Transportation, Ministry of Environment, Ministry of Health, Department of Fisheries and Oceans, etc.), where applicable.

2.11 Post Construction and City Acceptance

2.11.1 Construction Completion Report

Following completion of the works and services, the Consulting Engineer shall submit an electronic construction completion report to the City Engineer that contains the following documentation:

- Certificate of Inspection, Schedule 'C', Form F-2, signed and sealed by the Consulting Engineer.
- Inspection Records, including photos.
- Complete Materials and Performance Testing Report for all construction work (i.e., earthwork compaction, asphalt marshal/compaction densities, concrete testing, sewer leakage and pressure test, etc.) and (water system leakage and pressure test, bacteriological test results and certification in accordance with Flushing/Testing/Disinfection Report, Schedule 'C', Form F-11). All materials testing reports shall be sealed and signed by a professional Engineer certifying that all works tested meet and/or exceed the requirement of this bylaw;

- Fire Hydrant Flow Testing, Colour Coding and Stamping will be completed by the City's Utility Department, at the Owner/Developer's cost.
- Hydro, Telecommunications, Natural Gas and CATV acceptance letters of the completed work;
- Permit from Technical Safety BC for the completed streetlight/electrical system (this must be submitted within three (3) months of installation);
- IHA Construction Permit issued under Section 7 of the Drinking Water Protection Act:
- Signed 'Certificate of Reinstatements' from registered property owners where works have been undertaken on private property.
- Confirmation that all residents who have been directly affected by the works have been notified of the project completion and given the City's contact information should issues arise.
- Utility videos, complete with inspection report for all new sanitary and storm sewer installations;
- Confirmation that Canada Post has been notified of the completed subdivision/development;
- Certification that the rough lot grading has been completed to within +/- 100 mm of the approved final pre-grades;

2.11.2 Substantial Completion

On completion of the Works and Services the Owner/Developer shall notify the City Engineer. The City Engineer, upon receipt of the notice and bound completion report prepared by the Consulting Engineer, shall inspect the Works and Services and, if necessary, issue a list of deficiencies that must be corrected. If the City Engineer determines the works and Services can be put into service and are substantially complete, a Certificate of Substantial Completion, Schedule 'C', Form F-4 shall be dated and issued. At this time monies held by the city shall be released, less 10% of the total cost of the Works and Services as a maintenance holdback and deficiency bonding as noted in Section 2.11.3.

2.11.3 <u>Deficiencies</u>

Any deficiencies identified upon substantial completion shall be bonded in the amount of two (2) times the value of the deficiencies. Upon correction of the deficiencies, to the acceptance of the City Engineer, a Certificate of Completion, Schedule 'C', Form F-5 shall be dated and issued and the deficiency portion of the maintenance holdback released.

2.11.4 Record Drawings:

At the conclusion of the project, and prior to release of the Owner/Developers Performance Security, the Owner/Developer shall submit one (1) set of Record Drawings

which have been revised, sealed and signed by a Professional Engineer, to illustrate the recorded works, plus an electronic copy containing the record drawings in AutoCAD DXF format and PDF format.

Record drawings, means design drawings sealed by a Professional Engineer to reflect design changes made during construction. These drawings are intended to incorporate addenda, change orders and other significant design changes and site instructions. These drawings must be signed, sealed and dated by the professional Engineer who assumes overall responsibility for the construction and must be provided whether private contractor or City crews installed the work.

Record Drawings shall indicate the installed location for Hydro, Telecommunications, Gas, CATV and Street Lighting mains and servicing.

2.11.5 <u>Utility Service Cards</u>

Utility Service Cards shall be submitted in accordance with Specification Drawing No. SC-1 indicating the exact location and size of the water, sanitary and storm services, the lot and plan number, the street name, civic address, north arrow, lot lines, dimensions and bearings. Utility Service Card shall be submitted for each lot created by subdivision and/or the Development at the time of submission of the Record Drawing and must be provided whether private contractor or City crews installed the work.

UTM 11 coordinates are to be provided for water service curb stop, sanitary service inspection chamber and storm service inspection chamber, in addition to dimensions to property lines and/or property pins.

Utility Service Cards shall be submitted in PDF format with one (1) PDF file for each parcel. The file names shall follow the City standard format of all capitals, full road name, no use of suffixes on road number (ie 3200 3 STREET NE).

2.11.6 Submission Deadlines

All record drawings and utility service cards shall be submitted to the City within 90 days of issuance of a 'Certificate of Substantial Completion' to the Owner/Developer, otherwise the City may, at their discretion, proceed with preparation and completion of the aforementioned information at the cost to the Owner/Developer

2.11.7 Final Acceptance

The City Engineer will release the maintenance holdback, less the cost of any repairs chargeable to the Owner/Developer, upon expiration of the maintenance period when so requested by the Owner/Developer. Upon release of the maintenance holdback the City Engineer will issue a Certificate of Final Acceptance, Schedule 'C', Form F-6

3.0 SITE PREPARATION AND EARTHWORKS

A. DESIGN CRITERIA

3.1 Erosion and Sediment Control (ESC)

3.1.1 <u>Erosion and Sediment Control Drawings</u>

Erosion and Sediment Control Plans will be required as part of the submission set for all subdivision and development proposals where ground disturbance is required. Plans will be designed using Best Engineering Practices to protect adjacent properties and City Infrastructure from adverse effect of erosion and/or sediment deposition to the satisfaction of the City Engineer.

The Erosion and Sediment Control plan should seek (i) to protect the soil surface from erosion where possible and (ii) capture all sediment on-site during each phase of the construction project. This includes requirements to control the amount, water quality, and velocity of runoff to ensure that no excessive sediment laden water is discharged, either directly or indirectly, into the City Drainage System or into the watercourses.

3.1.2 Process

A Professional engineer must review, sign, and seal the ESC plan to confirm the plan complies with the applicable City requirements and is consistent with the Federal Land Development Guidelines for the Protection of Aquatic Habitat. 2003.

All ESC facilities and works described in the plan must be installed, constructed, and operational in accordance with the approved ESC drawings before any clearing or Construction Works begin.

ESC measures shall be inspected at minimum once a week and before and after every major rainfall. The record of site inspections shall be available to the City upon request.

ESC measures shall not be removed until all disturbed or exposed soil areas are revegetated or stabilized.

ESC measures may require modification as development progresses. Modifications shall be approved in advance by the City Engineer.

3.1.3 ESC Plan Requirements

An erosion and sedimentation control plan must contain sufficient information to describe the site development, the proposed impacts, and the system(s) intended to control erosion and prevent offsite damage / impact from sedimentation. The plan must include:

- .1 Contact information / ownership form and a 24 hour emergency contact phone number for the Professional Engineer and Environmental Monitor responsible for the site:
- .2 A site location map attached with location and width of existing or proposed access(es) to the property;

- .3 Property lines and other legal designations of the subject property with location(s) of any existing/proposed lots, buildings, services, or connections to existing services from the site:
- .4 Erosion and Sedimentation Control (ESC) details (as noted below) that emphasize use of erosion source control as the primary method for dealing with erosion and sediment runoff. Design specifications for ESC facilities must comply with the requirements of the DFO Land Development Guidelines for the Protection of Aquatic Habitat 2003; and
- .5 Primary erosion and sediment site source controls including: the location of sediment control ponds that are designed to comply with DFO Site Runoff Water Quality Requirements; location of outfalls and appropriate mitigation controls; proposed contours and drainage flows; Gravel pads at all access points; location of silt fences; location of soil stockpile areas (to be covered up); location of perimeter and infiltration ditches; location of watercourse setback area and watercourses or water bodies; and temporary fencing around designated protection areas.

3.1.4 ESC Best Management Practices

The following is a list of minimum source controls and best management practices required for each site and/or lot where applicable:

- .1 A gravel access pad (4.5 m wide and comprised of a minimum of 6 inches depth and 100 mm diameter angular rock) for each proposed lot at the point of entry onto the lots from the roadway. They shall be constructed and maintained to minimize the migration of sediment onto the roadways.
- .2 Physically mark clearing boundaries on construction sites and ensure temporary fencing is placed around the watercourse protection areas and any designated environmentally sensitive areas or features, as determined by the Professional Engineer or the City of Salmon Arm.
- .3 Install and maintain perimeter ditches, swales, and interceptor ditches on plans that divert runoff away from cleared areas during phased approach and divert runoff into staged primary and auxiliary sediment traps or sediment ponds where appropriate, prior to discharge off site.
- .4 Install and maintain filter fabric bags or equivalent inside any catch basins, on all road frontage catch basins and lawn basins collecting runoff from the construction site.
- .5 Vehicle/machinery access to and from the lot(s) shall be limited to the access pad, staging area, or prepared working road to minimize soil disturbance.
- .6 Roadways (fronting the respective lots) are to be swept free and cleaned on a regular basis (once a day or more frequently during rain events). Flushing of the roadway is prohibited.
- .7 Excavated/imported soils are not to be stockpiled/unloaded on road allowances, curbs, or sidewalks and if soils are stockpiled within the boundary of the lot, then the

stockpiles shall be covered with polyethylene sheeting and weighted down. Breaks in the cover should be repaired immediately.

- .8 Sediment laden water that shall be removed by ESC measures, or pumper truck and shall not be released into City Facilities.
- .9 Temporary graded areas, such as housing lots, must be protected from erosion through the use of straw, mulch and/or polyethylene tarps in non traffic areas and a gravel cap in zones of construction traffic where disturbed soils will be exposed for greater than three (3) months.
- .10 Final graded or landscaped areas must have the appropriate permanent surface protection or landscaping in place as soon as possible.
- .11 Where slopes exceed five percent, or where soil types consist predominantly of clays or fines, surface protection must be used from October 15th to May 15th or when rain events are expected.
- .12 All bare and exposed areas that will be left dormant for longer than three (3) months are to be seeded and stabilized with native vegetative species prior to October 15th where possible.
- .13 Every construction site where an ESC Plan has been issued must have a waterproof copy of the emergency contact information for the site owner, the designated professional engineer, and the designated contract administrator for the site in a location visible from outside the construction site, for the duration of the construction project.

3.2 Site Grading

3.2.1 Site Grading Plan

A site grading plan shall illustrate final road and lot grading, lot access locations and grades. Site grading plans shall include, but not be limited to, existing contours, existing/proposed elevations, building envelope with proposed grades, building grades such as minimum/maximum finished floor elevations, lot slopes, location and extent of retaining walls, fencing, swales, control/containment of surface water, seasonal and permanent watercourses, vegetation, top and bottom of bank, bedrock outcroppings, overland flow routes, location and grading of statutory right-of-ways, cut/fill areas, areas of fill that exceed 1.0 meters in depth, limits of engineered fill, safe building setbacks (where required) and any other information as deemed necessary.

3.2.2 Low Points

Any ultimate low point in the roadway shall have provisions for safe overland flow to protect major flow routes.

3.2.3 Overland flow routes

Overland flow routes are to be designed as per criteria in Section 7.11 and detailed on the Site Grading Plan.

3.2.4 Cut/fill plan

Cut Fill Plan is to be provided prior to the start of earthworks where cuts/fills are over 1.0 meters and on all developments within the Hillside Development Area as defined in Schedule A, Map 1. Large cut/fills to achieve flat yards are discouraged and will not be permitted in developments within the Hillside Development Area.

3.2.5 <u>Slope</u>

Maximum allowable slope shall be 3:1, unless a Geotechnical report prepared by a qualified Professional Engineer has been provided which provides assurance of the slope stability for the proposed grading.

Minimum allowable slope shall be 2.0% for grassed areas and 0.5% for hard surfaces.

3.2.6 Lot Grading

Lots shall be graded to drain away from building foundations. Sheet drainage of runoff onto City property is encouraged (as opposed to point loading).

3.2.7 <u>Swales</u>

Swales along rear, front and side yards shall be used in conjunction with lot grading to protect the subject property from uphill drainage and protect downstream properties from site drainage.

Swales capturing drainage from two or more lots shall be protected by:

- A registered easement in favour of all upstream properties if contributing drainage is from private property.
- A Statutory right-of-way In favour of the City if contributing drainage is from public and private properties or from private properties.

Grass swales shall be graded at a minimum of 1.0%. Concrete swales shall be graded at minimum 0.5%

Swales shall be at a maximum depth of 0.7 meters.

3.2.8 Retaining Walls

Retaining walls shall be detailed on lot grading drawings with existing and proposed grades and any related cut/fill slopes.

Retaining walls over 1.2 meters (4 feet) in height shall be designed by a professional engineer under City permit.

Private retaining walls shall not be constructed on City Boulevard or statutory right-of-ways.

Retaining walls shall not be used to support public infrastructure where a reasonable alternative exists, unless otherwise approved by the City Engineer.

3.2.9 Statutory Right-of-ways

Statutory right-of-way must be graded to provide reasonable access for maintenance equipment.

3.2.10 Rough Grading

Rough grading and retaining as detailed on the site grading plan shall be completed by the owner/developer prior to the subdivision approval. Rough grading shall be completed within +/- 100mm of the final approved pre-grade.

3.3 Site Restoration

3.3.1 Restoration of Public Property

All offsite disturbed areas shall be restored to existing condition or better to the satisfaction of the City Engineer.

3.3.2 Restoration of Private Property

All disturbed areas on private property shall be restored to existing condition or better to the satisfaction of the property owner. Owner/developer to make all reasonable attempts to obtain written acceptance of restoration from each affected property owner. In the case of a dispute, the City Engineer will have ultimate approval of restoration works.

3.3.3 Restoration of Site

Site shall be restored as per the requirements of the approved Erosion and Sediment Control Drawing (refer to Section 3.1), or where there is not an approved Erosion and Sediment Control Plan, landscape as per the requirements in Section 10.0.

B. <u>MATERIALS</u>

Site Preparations and Earthworks materials shall be supplied in accordance with Schedule D – Approved Materials List

C. <u>CONSTRUCTION</u>

Site Preparation and Earthwork Construction shall be in accordance with Master Municipal Construction Documents (MMCD) Platinum Edition Volume 2 (The MMCD Association, 2009) as amended and Schedule B – Part 3.

D. TESTING

Site Preparations and Earthwork Testing shall be in accordance Master Municipal Construction Documents (MMCD) Platinum Edition Volume 2 (The MMCD Association, 2009) as amended and Schedule B – Part 3.

4.0 ROADS

A. DESIGN CRITERIA

4.1 General

Where the provisions of the Subdivision and Development Servicing Bylaw No. 4293 require the construction of roads, the applicant shall construct the roads consistent with the regulations, standards and specifications set out in this schedule.

4.2 Approval Drawings

Engineering drawings showing detailed design of roads shall be submitted to the City Engineering Department for approval prior to commencement of construction. These drawings shall show existing ground line and proposed alignment and grade of the roads, horizontal and vertical curve information and all other details as may be required. Grades shall be given at all changes in vertical and horizontal alignments for centreline and gutter lines. Elevations shall be shown on the drawings at all changes in vertical alignments and at regular station.

Curb Return profiles required for all radial installations.

4.3 Geotechnical Evaluation

The applicant shall be responsible for engaging the services of a qualified Geotechnical Engineer to investigate surface and sub-surface conditions within the proposed subdivision/development. The Geotechnical Engineer shall prepare a report outlining his finds and shall provide clear, definitive recommendations on the geometry and placement of fill sections, compaction requirements over and above those stipulated in this bylaw, cut slope geometry, pavement structures for roads, and any other geotechnical issues affecting road construction within the proposed subdivision/development.

4.4 Road Classification

The roads shall be designed in accordance with the road classification specified by the City of Salmon Arm in the Letter of Preliminary Subdivision Review and shall conform to the provisions of the City of Salmon Arm 'Official Community Plan'.

4.5 Design Speed

Design speeds shall be as listed below unless otherwise approved by the City Engineer.

Major Local Roadway	50 km/h	(Directly connects to a Connector Road)
Minor Local Roadway	40 km/h	(Connects to Local Roads only or cul-de-sacs)
Town Centre	40 km/h	
Industrial Roadway	50 km/h	
Collector Roadway	70 km/h	
Arterial Roadway	80 km/h	
Hillside Local	30 km/h	
Hillside Collector	50 km/h	
Hillside Arterial	60 km/h	

4.6 Right of Way Widths

4.6.1 Standard Right-of-way Widths

Right of way width will be as noted in the applicable roadway cross-section

4.6.2 Additional Right-of-way Width

Additional width may be required where necessary to permit turn lanes, round-abouts, bike lanes, or pathways.

4.6.3 Reduced Right of Way widths

Reduced Right of Way widths may be considered where one or many of the following conditions exist:

Adjacent constraints such as CPR right of way or Indian Reserve;

Cul-de-sacs or other low volume roadways;

Historical reductions existing along roadways (variances); or

Where there will be future dedication on adjacent property.

4.6.4 Corner Cuts

Corner cuts are required to be 3.0 meters x 3.0 meters on local streets and 5.0 meters x 5.0 meters on collector and arterial streets, at all street intersections. Additional dedication may be required to accommodate a Round-about.

4.7 Lanes

New lanes are discouraged, but may be permitted under special circumstances with approval from the City Engineer. Lanes within existing rights-of-way shall conform to Specification Drawing No. RD-12a. New lanes shall conform to Specification Drawing No. RD-12b.

4.8 Cross-Sectional Elements

4.8.1 Road Cross-Section

Roads shall be constructed to the dimensions specified on Specifications Drawings No. RD-1 through RD-16.

4.8.2 Road Structure

The road structures indicated on Specification Drawings No. RD-1 through RD-16 is the minimum acceptable road structure.

A Professional Engineer, registered in the Province of British Columbia, shall confirm that the road structure indicated on the specification drawings is capable of supporting the proposed loading for a 25 year lifespan, or recommend a more stringent road structure where conditions warrant.

Minimum cross slope of installed gravels shall be 3.0% unless otherwise approved by the City Engineer.

Base gravels shall daylight on all roadways without a municipal storm system or subdrains shall be provided. Where a low point exists on a roadway, subdrains shall be installed for a minimum 5m distance upstream and be connected into the low point catchbasins to allow proper drainage of base gravels into the municipal stormwater system. In other cases, subdrains may be required by the City Engineer in addition to the municipal storm system, where adverse geotechnical conditions warrant the installation.

4.8.3 Boulevards

Boulevards are to be graded towards the street line including any driveway entrances, or hydraulic capacity calculations for the roadway will be required.

When Boulevard landscaping and irrigation is required the owner/developer shall prepare a landscaping and irrigation design drawing, in accordance with Section 10.0.

4.8.4 Bike lanes

Bike lanes shall be provided in locations noted in the City of Salmon Arm 'Official Community Plan' and shall be constructed to the specifications indicated on the applicable Road Cross-Section design drawing.

4.8.5 Ditches

Ditches shall be required on all high sides of Rural Roads and shall be of appropriate depth to drain the roadway base. Ditches may be required on the low side of rural roadways where roadway base drainage cannot be accommodated with existing topography.

Sheet drainage is preferred; point source loading may be permitted when outlets into an approved existing drainage route.

Ditches shall be vegetated or otherwise protected from erosion. Refer to Section 3.1.

4.8.6 Curb and Gutter

Concrete Curb & Gutter shall be constructed in accordance with the cross-sections illustrated on Specification Drawings CGS-1, CGS-2 and CGS-3, for the applicable road cross-section.

4.8.7 Sidewalks and Multi-use Paths

Concrete sidewalks shall be constructed in accordance with Specification Drawings No. CGS-4a and CGS-4b and shall be designed using best practices meeting the specifications outlined in the latest edition of the British Columbia Active Transportation Design Guide where possible.

Let downs shall be constructed as per CGS-5 and CGS-6.

Sidewalk shall be 150mm thick in all residential areas and 180mm thick in all commercial areas.

Multi-Use Paths to be constructed in accordance with Specification Drawing No. CGS-8.

The maximum and minimum grades for sidewalks and multi-use paths shall not exceed the maximum and minimum road grades.

Sidewalks and multi-use paths and adjacent appurtenances must be designed and constructed to permit snow clearing equipment to pass through uninhibited.

4.8.8 Walkways

Concrete walkways shall be constructed in accordance with Specification Drawings No. CGS-7.

Walkway let downs shall be constructed in accordance with Specification Drawing CGS-6 and provided at all road intersections, walkways and mailbox locations.

The maximum grade for walkways shall be 15%. Although discouraged, concrete stairs may be considered where walkways must exceed 15% as approved by the City Engineer. Refer to Section 4.8.10.

Where a change in direction occurs in a walkway, provisions must be made in the design and construction to permit snow clearing equipment to pass through uninhibited.

4.8.9 Crosswalks

Crosswalks within the Town Centre Development Area shall be thermoplastic crosswalk surfaces in accordance with the approved materials list.

4.8.10 Stairs

Prior to authorizations of concrete stairs, alternate walk routes must be submitted for city review and approval. Only where other acceptable walk routes are not available, will the installation of stairs be considered. In all cases, concrete stairs must conform to B.C. Building Code and in accordance with Specification Drawing No. RS-1 and RS-2. Advance warning signage shall be placed at both ends of stairways.

Stairway landings shall not exceed 2% grade in any direction.

Handrails shall be installed on the concrete stairs in accordance with Specification Drawings RS-1 and RS-2.

4.8.11 Pathways and Trails

Pathways and Trails are to be dedicated and installed at the direction of the City Engineer in locations identified in the Official Community Plan. The exact location shall be negotiated through the detailed design process. Trail type to be specified and constructed in accordance with Greenways Strategy "Weave it Green". Pathways and Trails shall be constructed in accordance with Specification Drawings No. CGS-8 through CGS-12.

The maximum grade for pathways shall be 20%. Prior to the authorization of stairs, alternate walk routes must be submitted for City review and approval. Only where other acceptable walk routes are not available, will the installation of stairs be considered. In all cases, stairs must be built to B.C. Building Code. Refer to Section 4.8.10.

4.8.12 Canada Post Boxes

Location of Canada Post mailboxes shall be shown on the design drawings as confirmed with Canada Post and be acceptable to the City Engineer.

Mailboxes locations shall be located in the boulevard adjacent to side lots, have sidewalk access and be in well lit areas, where possible.

4.8.13 Transit Bays

Transit bays shall be constructed at locations determined by the City Engineer. Specifications are available upon request.

4.8.14 Parking Bays

Parking bays are required on Urban Collector Roads where adjacent to medium and high density residential, Institutional or Commercial zoned properties in accordance with Specification Drawing RD-3.

4.8.15 Sign Post Bases

Sign Post Bases shall be installed in accordance with Specification Drawing SP-1.

4.9 Alignment Elements

The design of road (vertical and horizontal) alignments shall be in accordance with the Transportation Association of Canada manuals; Geometric Design Guide for Canadian Roads and Urban Supplement to the Geometric Design Guide for Canadian Roads, as amended. Where there is a discrepancy between the guidelines and the parameters below, the bylaw value shall be used unless otherwise approved by the City Engineer:

Design Parameter		Design Speed (Km/h)					
		30	40	50	60	70	80
Minimum Radii	2% Super El.	30	65	115	185	290	400
	4% Super El.	20	45	80	130	200	280
	6% Super El.	-	-	-	-	-	250
Maximum Super	elevation	4%	4%	4%	4%	4%	6%
Minimum Gutter	Grade	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%
Minimum Centre	line Grade	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%
Maximum Centre	eline Grade	12.0%	12%*	12%**	10.0%	10.0%	8.0%
Maximum cul-de	-sac grade	6%	6%	6%	6%	6%	6%
Minimum Crest ((K) ***	2	4	7	15	22	35
Minimum Sag (K	()***	4	7	11	20	25	30

* 6% Town Centre ** 8% Industrial

*** May be reduced approaching a stopped condition

4.9.1 Cross Slopes

Cross slopes shall be 2.0%, except at intersection and horizontal curves where approved by the City Engineer.

4.10 Intersection Design

4.10.1 Round-Abouts

The use of a round-about is encouraged over the use of a stop-controlled intersection or traffic lights. A round-about shall be designed using best engineering practice. A conceptual design shall be submitted to the City along with a design brief for approval prior to commencing detailed design.

4.10.2 Maximum Grade

The maximum grade for minor roads entering an intersection shall be \pm -2% for a distance of 15 metres from the edge of pavement to the point of intersection of the vertical curve (without a stop condition) or \pm -3% for a distance of 15 metres from the stop bar to the point of intersection of the vertical curve.

4.10.3 Angle

Intersections shall meet substantially at right angles (between 70 degrees and 110 degrees)

4.10.4 Curb Returns

The following minimum curb return radii shall apply:

N		
Road Classification	Specification Drawing	Curb Return Radii
18 m R/W Urban	RD-1	7.5 m
20 m R/W Urban	RD-2	7.5 m
20 m R/W Collector	RD-3	11.0 m
25 m R/W Arterial	RD-4	11.0 m
20 m R/W Rural	RD-5	13.0 m

Curb return design information is required to be shown on design drawings (i.e. gutter grades and elevations, direction of drainage, etc.). Curb returns shall be designed to avoid conflict with wheel paths, utility manholes, water valves, street lights, power poles, etc.

4.11 Cul-De-Sacs

4.11.1 <u>General</u>

Cul-de-sac streets should be avoided unless topographic or surrounding land constraints make continuation or projection of conventional roadways impractical.

4.11.2 Grading

Cul-de-sac design shall conform to Specification Drawing No. RD-10 and RD-11. Cul-de-sacs should be graded towards the street where possible or designed such that surface drainage has a suitable overland flow route.

4.11.3 Driveways

Driveways on cul-de-sacs shall be 4.0m wide, within City Right-of-Way as measured along property line unless adequate snow storage can otherwise be provided. Driveway locations shall be shown on design drawings. Driveways shall be paired at property lines. A statutory Right-of-way may be required to accommodate snow storage where space is limited.

4.11.4 Length

Cul-de-sac dead end roads shall not exceed 160 meters in length in Urban, Town Centre and Industrial Development Areas and 300 meters in length in Rural Development Areas. The measured length shall be along centreline from the centre of the first intersection having access from two alternate routes to the centre of the cul-de-sac. At the discretion of the City Engineer, a 'T' Turn Around (Specification Drawing No. RD-13) may be permitted for lanes and temporary dead ends for streets where subdivision/development is phased; however, provision must be made for snow storage.

4.12 Pavement Marking and Signage

A Pavement Marking and Signage drawing shall be provided with the design drawings.

Regulatory and information signs and pavement markings shall be supplied and installed in accordance with the latest version of the City of Salmon Arm's Pavement Marking and Signage Plan and as per TAC guidelines at the owners/developers full cost.

Sign Post Bases shall be in accordance with Specification Drawing No. SP-1.

4.13 Access

4.13.1 Driveways

Standard driveway widths shall be 6.0m for residential and 8.0m for commercial developments. Maximum driveway widths shall be 8.0m for residential and 10.0m for commercial developments, where frontage widths are at minimum twice the driveway width and at the discretion of the City Engineer.

All driveway let downs where a sidewalk or multi-use path exists along the frontage shall be constructed as per Specification Drawing CGS-5.

A minimum clearance of 0.5m is required from the edge of asphalt to any infrastructure such as hydrants, light posts and transformers. Clearance to third party utility infrastructure such as transformers shall be confirmed with the applicable utility.

4.13.2 Combined/Shared Access

Subdivision or development shall be designed by keeping to a minimum the number of access driveways connecting directly to an Arterial or Collector Street. Where driveways can be located onto local roadways no accesses on to Arterial or Collector Streets will be permitted.

Where possible, except in Rural areas, properties fronting Arterial or Collector Streets shall have shared driveway access.

4.13.3 Number of Accesses

Only one access will be permitted for each single family residential, duplex or medium density lot.

An additional access may be considered, at the discretion of the City Engineer, where the subject lot is a corner lot or where the street frontage is twice or greater the minimum frontage as specified in the Zoning Bylaw and where no safety issues are created. Multiple accesses may be considered for industrial, commercial, agricultural and high density lots, provided the distance between accesses is greater than 10 meters and there are no safety issues created.

4.13.4 Clearance to Intersection

Residential access locations shall be greater than 5.0 meters from an intersection, as measured from the ultimate property line closest to the intersection.

Industrial, commercial, agricultural, medium and high density access locations shall be greater than 12.0 meters from an intersection, as measured from ultimate property line closest to the intersection.

4.13.5 Servicing Conflicts

Lot Services and other above ground appurtenances shall be located outside of accesses unless otherwise approved by the City Engineer. Where services are allowed within the access, protection shall be provided in the form of concrete utility box.

4.13.6 Grade

The maximum grade for a lot access shall be 15% for a maximum distance of 25 meters as measured from the building. Access greater than 25 meters from the building to the edge of right of way shall conform to City of Salmon Arm Policy 3.11 and shall ensure the first 3.5m of the driveway has a grade of no greater than 7.0%. In all cases, boulevard grading shall conform to standard drawings. Designers shall ensure grade transitions on driveways account for vehicle clearance.

B. MATERIALS

Roads materials shall be supplied in accordance with Schedule D – Approved Materials List.

C. CONSTRUCTION

Roads construction shall be in accordance with Master Municipal Construction Documents (MMCD) Platinum Edition Volume 2 (The MMCD Association, 2009) as amended and Schedule B – Part 3.

D. TESTING

Roads testing shall be in accordance with Master Municipal Construction Documents (MMCD) Platinum Edition Volume 2 (The MMCD Association, 2009) as amended and Schedule $B-Part\ 3$.

5.0 WATER SYSTEMS

A. <u>DESIGN CRITERIA</u>

5.1 General

5.1.1 Water for Domestic Purpose

In any subdivision and/or development, a source of water for domestic purpose shall be available on each parcel, except where the intended use of the parcel does not require a supply of water for domestic purpose and the owner/developer grants a covenant in favour of the City of Salmon Arm at the time of subdivision, such covenant to limit the use of land within the parcel.

For the purpose of this subsection "Water for Domestic Purpose" means water which (subject to such approvals as may be required in accordance with the Public Health Act) is intended for use for household requirements including but not limited to the normal household requirements of sanitation, human consumption and food preparation, fire prevention and watering of domestic animals and poultry.

5.1.2 <u>Municipal or Alternative Water Source</u>

Where connection to the City's water distribution is required, connection shall be provided in accordance with Sections 5.3.

Where connection to the City's water system is not required by this bylaw, all parcels within a subdivision or development shall have an on-site potable source of groundwater or surface water available for domestic purpose in accordance with Section 5.2.

5.1.3 Extension of Water Distribution System

Where the provisions of the Subdivisions and Development Servicing Bylaw No. 4293 require the construction of a water distribution system, the applicant shall provide a water distribution system and storage facilities including watermain, valves, hydrants, service connections, pump stations and reservoirs consistent with the regulations, standards and specifications set out in this schedule. All standards not specifically described in this schedule shall be in accordance with appropriate American Water Works Association (AWWA) standards or as directed by the City Engineer.

5.2 Alternative Water Source

Where a City water distribution system is not available and installation of a new on-site water supply system is required, either a Professional Driven Approach (completed by a qualified Professional Engineer) or a Homeowner Driven Approach (completed by the homeowner and/or qualified well driller) may be required to certify quality and quantity of the alternative water source as described below.

Where installation of a new well is not required, homeowner to provide proof of water quality from within the previous twelve (12) months.

Where a significant change in density on the parcel is proposed through re-zoning, the City Engineer may require a quantity test to be completed on an existing well.

5.2.1 <u>Alternative Water Source Approval for Subdivision or Development</u>

The Professional Driven Approach shall be used if any of the following is true, and the owner/developer must provide to the City the information that is required to enable the City to make that determination:

- The proposed subdivision will result in two or more additional parcels;
- The proposed parcels are each less than two (2) hectares in area;
- The proposed subdivision is not located within an area indicated as being within a known aquifer, as identified on BC Water Resources Atlas interactive mapping tool (as revised - https://maps.gov.bc.ca/ess/hm/wrbc/);
- The proposed subdivision is located within an area of concern for groundwater issues as identified on BC Water Resources Atlas interactive mapping tool (as revised - https://maps.gov.bc.ca/ess/hm/wrbc/);
- Proposed groundwater source is within 30 meters of any other existing groundwater source or source of potential contamination;
- The proposed water source is surface water;
- The proposed water source is a shallow well that the owner intended to install without hiring a Qualified Well Driller or a Qualified Pump Installer;
- Prior to commencing construction or testing, the Qualified Well Driller or Qualified Pump Installer engaged to provide a Well has provided an opinion, having been requested by the owner/developer to consider the matter, that drawdown interference, or water quality issues are likely to occur based on their personal knowledge of the area in which the Well is proposed; or
- The City has requested a review of the information provided, as required above, by a Qualified Registered Professional, and that professional recommends a professional directed approach.

5.2.2 Professional Driven Approach (Groundwater)

A qualified professional shall perform or oversee a well test and Proof of Source Yield for each lot shall be provided as per the requirements in Section 5.2.7. Well logs shall be submitted to the Groundwater Protection Officer and the City. A representative number of well tests may be accepted on multiple lot subdivisions (three (3) or more) based on professional recommendations; however, in no case shall the tests be on less than 25% of the lots.

A qualified professional shall sample the well water and submit a sample to an authorized water testing laboratory for analysis of water quality as per the requirements in Section 5.2.5. Results shall be submitted to the Groundwater Protection Officer and the City.

Failed quality tests require sign off from a professional that treatment can be achieved to make water potable using readily available treatment methods.

Where treatment is required, a covenant shall be placed on the property as per the requirements in Section 5.2.6.

A report shall be provided conforming to the Guide to Conducting Well Pumping Tests (Ministry of the Environment), The report must be submitted by a groundwater geologist or professional engineer (whose field of competence lies within the groundwater fields), and indicate factors leading to the conclusion that the required supply of potable groundwater will be available for the foreseeable future giving due consideration to the possible interference with septic tanks, neighbouring wells, the effect on the aquifer of simultaneous pumping from other wells, and the seasonal fluctuation in ground water levels.

5.2.3 Homeowner Driven Approach (Groundwater)

A qualified well driller or qualified pump installer shall perform a well test and provide Proof of Source Yield as per the requirements in Section 5.2.7. Well logs shall be submitted to the Groundwater Protection Officer and the City.

A qualified well driller or qualified pump installer shall sample the well water and submit a sample to an authorized water testing laboratory for analysis of water quality as per the requirements in Section 5.2.5. Results shall be submitted to the Groundwater Protection Officer and the City.

Failed quality tests require sign off from a professional that treatment can be achieved to make water potable using readily available treatment methods.

Where treatment is required, a covenant shall be placed on the property as per the requirements in Section 5.2.6.

Mapping shall be provided indicating the location of the well within each property and proximity to any other water sources or potential contamination sites (septic tanks, etc.).

5.2.4 Surface Water

Proof of Source Yield shall be provided as per the requirements in Section 5.2.8.

A water quality test shall be completed as per the requirements in Section 5.2.5.

Failed quality tests require sign off from a professional that treatment can be achieved to make water potable using readily available treatment methods.

Where treatment is required, a covenant shall be registered on title as per the requirements in Section 5.2.6.

5.2.5 Water Quality Testing

Where water quality testing is required for approvals the water must be tested and proven safe for human consumption. The certification must clearly state whether or not the water tested meets the limits imposed by the Canadian Drinking Water Guidelines (Current Edition) standards for the following parameters: alkalinity, Arsenic, Calcium, Chloride, Colour, Conductivity, Fluoride, Hardness (total), Iron, Magnesium, Manganese, Nitrate, Nitrite, pH, Potassium, Silicon, Sodium, Sulphate, Total Dissolved Solids, Turbidity, Uranium, Total Coli form, Fecal Coli form.

5.2.6 Covenant

Where a covenant is required for approvals, the owner/developer must register on title of each lot serviced by an alternate water source a covenant in favour of the City of Salmon Arm relative to the required engineered treatment system necessary for any future development. The form of the covenant shall be approved by the Approving Officer and City Engineer.

5.2.7 <u>Proof of Source Yield (Groundwater)</u>

Where proof of groundwater source yield is required for approval, proof that a supply of potable water for domestic purpose is available of not less than 9 litres (1.98 gallons) per minute for a period of 4 hours and with a sustained yield of not less than 2,250 litres (495 gallons) per day for a single family dwelling on a year round basis is available to each parcel shall be provided to the City in the form of a well test.

Well tests shall be conducted in accordance with the Guidelines of Minimum Standards in water Well Construction, Province of British Columbia ISBN 0-7719-8987-3 including well testing certification in accordance with Schedule C, Form F-7

5.2.8 Proof of Source Yield (Surface Water)

Where proof of surface water source yield is required for approval, proof that a supply of potable water for domestic purpose is available with a sustained yield of not less than 2,250 litres (495 gallons) per day for a single family dwelling on a year round basis is available to each parcel in the form of surface water shall provide the City with:

- A water licence from the relevant provincial authority having jurisdiction for each parcel created by subdivision or development; or
- A letter signed by the relevant provincial authority having jurisdiction acknowledging that a water licence will be issued to each parcel being created by the subdivision application upon completion of the subdivision registration; and
- Evidence that the parcel owner will have legal access to the water source via an easement on private lands or a permit on Crown land where the surface water licence is not on the parcel being serviced

5.2.9 Water Treatment

Surface waters and/or ground water influenced by surface water will require treatment that will provide a minimum 3 log reduction (99.9%) of Giardia cysts. Additional treatment may be required for high risk water supplies. The Covenant referenced in Section 5.2.6 shall reflect the requirement for an engineered treatment system.

Where water quality tests fail in relation to a proposed subdivision, the subdivision shall not be approved unless a qualified professional has provided assurance that treatment can be achieved to make water potable using readily available treatment methods. The Covenant referenced in Section 5.2.6 shall reflect the requirement for an engineered treatment system.

Where treatment is required in relation to a proposed development, an occupancy permit shall not be issued unless an engineered treatment system has been installed and tested. A water sample shall be taken from the development upon installation of the engineered treatment system and sent for Water Quality Testing (Refer to Section 5.2.5).

5.3 Municipal Water Source

No construction shall commence until engineering drawings have been approved by the City Engineer and Ministry of Health.

5.3.1 City of Salmon Arm

Engineering Drawings showing detailed design of the necessary works shall be submitted to the City Engineer for approval.

These drawings shall show alignment, size, grade, class and depths of pipes, pipe bedding requirements, existing ground line and proposed final ground line over the pipe, location, elevation and detail of all fittings, valves and hydrants, location of all service connections, location, access to, size and details of any pump stations and reservoirs, all easements and all such other details as may be required. Where a water system is not yet available, rights of ways may be required to be provided by the applicant to allow for the eventual installation of this facility. Such rights of ways shall be registered in favour of the City of Salmon Arm at the applicant's expense.

5.3.2 Interior Health Authority

The watermain design shall conform to the requirements of Interior Health Authority (IHA).

The owner/developer shall submit a set of the water utility drawings to IHA for a permit issued under Section 7 of the BC Drinking Water Protection Act authorizing construction of the waterworks. The original permit shall be submitted to City Engineer prior to commencing construction.

5.4 Main Sizing

5.4.1 Pipe Flow Formula

Water mains shall be designed using a proven network analysis computer model based on the Hazen-Williams Formula.

$$Q = \frac{CD^{2.63}S^{0.54}}{278780}$$

Where,

Q = rate of flow in litres/second

D = internal pipe diameter in mm

S – Slope of hydraulic grade line in m/m

C = Roughness coefficient

5.4.2 Minimum watermain sizes

The minimum watermain sizes are as follows:

Residential (Low and Medium Density)	150mm
Commercial, High Density Residential, Institutional	200mm
Industrial	250mm

Density shall be based on current Zoning or OCP designation, whichever is higher.

Where no further extensions are possible, watermain 100mm in diameter may be installed for domestic service on cul-de-sac roads beyond the last hydrant.

5.4.3 <u>Design velocity</u>

Design velocity shall not exceed 0.60 m/sec for Average Day Demand and 3.65 m/sec for Maximum Day Demand plus Fire Flow or Peak Hour Demand, whichever is greater.

5.4.4 Per Capita Demand

Watermain sizing design flows are as follows:

Average Day Demand	900 litres/day/capita
Maximum Day Demand	2,000 litres/day/capita
Peak Hour Demand	3,600 litres/day/capita

5.4.5 Non-Residential Demand

Equivalent Populations for non-residential demands are as follows:

Commercial	90 people/ha
Institutional	50 people/ha
Industrial	90 people/ha

5.4.6 Fire Flow Requirements

The following fire flows must be met for the noted zones and development:

Rural Areas	30 litres/sec
Low Density (Single Family Dwelling / Mobile Home Parks / Duplex)	60 litres/sec
Medium Density (Triplex / Fourplex)	90 litres/sec
Commercial / Institutional / Apartments	150 litres/sec
Industrial	225 litres/sec

5.4.7 <u>Design Flows</u>

Total design flows are to be the greater of the Maximum Day Demand for the population or equivalent population plus the Fire Flow, or Peak Hour Demand for the population or equivalent population.

5.4.8 <u>Design Pressures</u>

Watermain pipe shall be designed to accommodate 1.5 times the maximum projected working pressure for the applicable pressure zone. Pressure zones shall generally be set at minimum pressure of 250kPa under peak hour conditions and a maximum pressure of 790kPa under static conditions. Pipe specification and material shall be noted on the drawings.

Minimum service pressures during Maximum Day Demand plus fire flow shall be as follows:

Peak Hour		250kPa (40 psi)
Maximum Day Plus Fire Flow	Hydrant Pressure	150kPa (20 psi)
	System Pressure	150kPa (20 psi)

5.5 Vertical Alignment

5.5.1 <u>Grade</u>

Watermain shall be installed at a minimum grade of 0.1%. Maximum grade shall be 20%. Exceptions may be granted by the City Engineer where grades in excess of 20% have been reviewed for trench dam and joint restraint requirements.

5.5.2 Chambers

Chambers or manholes containing valves, blow-offs, meters, or other appurtenances should allow adequate room for maintenance, including headroom and side room and shall be a minimum 1050mm precast concrete. Access openings must be suitable for removing valves and equipment. The chamber is to be provided with a drain to a storm sewer or ditch, complete with backflow prevention, to prevent flooding of the chamber. Rock pits may be considered subject to suitable soil and groundwater conditions.

Insulation to prevent freezing should be provided where necessary.

5.5.3 High Points

Watermain shall be designed with a rising grade wherever possible to minimize high points in the main. Where a high point is unavoidable, either a service or air release valve shall be installed at that point.

5.5.4 Air Release and Vacuum Valve

Air Release and Vacuum Valves shall be installed at the high points in all watermain installations except where:

- the difference in elevation between the summit and valley is less than 600mm;
- it can be shown that air pockets will be carried by typical flows
- active service connections are suitably located to dissipate entrapped air.

For 100mm – 500mm watermain refer to Specification Drawings No. W-6, for 600mm – 1200mm watermain refer to Specification Drawing No. W-7.

Air valves must be vented to an appropriate above-grade location to eliminate any potential for cross connection in a flooded or contaminated chamber and shall be located within the sidewalk or boulevard.

5.5.5 Depth of Cover

The minimum pipe cover, from finished grade to top of pipe shall be 1.8 meters.

5.5.6 Vertical Clearance

The vertical clearance from bottom of watermain to top of sewer shall be the greater of 0.3m or the minimum clearance as set out in IHA's "Guidelines for the Construction of Waterworks". Actual clearance shall be labelled on approved design drawings.

Where the vertical clearance cannot be achieved, reduced clearance may be permitted where joints are wrapped with heat shrink plastic or packed with compound and wrapped with petrolatum tape in accordance with the latest version of AWWA Standards C217, and C214 or C209, as approved by IHA.

5.6 Horizontal Alignment

5.6.1 Location in Roadway

Watermain shall be aligned in accordance with those indicated on the Road Cross Section Specification Drawings.

5.6.2 Horizontal Curves

Horizontal curves in watermain will not be permitted, unless otherwise approved by the City Engineer. If horizontal curves are approved, they shall be uniform throughout the curve. The radius of the curvature shall not be less than 50 meters. The deflection in all cases must not exceed 50% of the manufacturer's recommendations for maximum deflection, unless otherwise directed by the City Engineer. Five (5) degree premanufactured bends to the same standards as the mainline pipe may be utilized to achieve the design radius.

5.6.3 Horizontal Clearance

The horizontal clearance shall be the greater of 3.0m or the minimum clearance as set out in IHA's "Guidelines for the Construction of Waterworks". Actual clearance shall be labelled on approved design drawings.

Where the horizontal clearance cannot be achieved, reduced clearance may be permitted where joints are wrapped with heat shrink plastic or packed with compound and wrapped with petrolatum tape in accordance with the latest version of AWWA Standards C217, and C214 or C209, as approved by IHA.

5.6.4 Chambers

Chamber lids locations shall not conflict with curbs, gutters or sidewalks and where possible and shall be located outside of the wheel path of normal traffic flow.

5.6.5 Main Looping

Watermain shall be looped or interconnected at a maximum of 200 meter intervals. Provision shall be made for future looping, where required by the City Engineer.

5.6.6 Dead End Watermain

Dead end watermain shall be avoided wherever possible. If not possible a blow off assembly shall be provided in accordance with Specification Drawing No. W-4.

5.7 Main Line Valve Size and Locations

Main line valves shall be the same diameter as the main line pipe and shall be located in the following locations (subject to Engineering/Operational review):

- three (3) valves required at a cross (+) fitting;
- two (2) valves located at a tee (T) fitting;
- As necessary to ensure maximum spacing of 200 meters.
- As necessary so that no more than 20 service connections are isolated at one time:
- As necessary so that no more than one (1) fire hydrant is out of service at any one time:
- On each end of a statutory right of way; and,
- On each side of a major crossing such as under the Salmon River, TCH or Canadian Pacific Railway.

5.8 Fire Hydrants

5.8.1 Spacing

For developments, additional fire hydrants shall be located and spaced in accordance with the requirements of the British Columbia Building Code and the City of Salmon Arm Fire Department.

For subdivision and developments, fire hydrant spacing shall be approximately, and in all cases shall not exceed 150 meters in low density residential zones and 90 meters in medium and high density residential zones, commercial, industrial and institutional zones and 300 meters in ALR/Rural zones.

The calculation for fire hydrant spacing and the distance to the principle entrance of a building shall be measured along centreline of the fronting road and shall not be separated by a controlled access highway for commercial, industrial or institutional zoned land.

5.8.2 Location/Clearance

Fire hydrants shall be installed at property lines in mid-block locations and at intersections wherever possible.

Fire hydrants shall be located at minimum 2.0m from back of curb or 0.5m from back of sidewalk.

A 1.0 meter radius clearance, free of obstructions must be provided around all fire hydrants.

Where a fire hydrant requires to be installed behind a ditch, a 1.0 meter radius paved clearance must be provided around the fire hydrant, and a 6.0 meter culvert installed.

5.8.3 Connections

Fire Hydrant connections shall be a minimum of 150mm in diameter.

5.8.4 Depth of Cover

Minimum depth of cover shall be 1.8 metres. Where extra depth is required for the hydrant connection, the compression fitting shall be installed at 1.8 vertical metres and all required extensions shall be installed beneath the compression fitting.

5.9 Thrust Blocks and Joint Restraints

Thrust blocks and/or adequate joint restraining devices must be provided at bends, tees, wyes, reducers, plugs, caps, valves, hydrants and blow offs. They shall be designed for a minimum 1725kPa water pressure. Refer to Specification Drawing No. W-1. Bends at 5 degrees must be in accordance to the manufactures specifications. Engineered calculations shall be provided to the City Engineer, when required, for all thrust block design based on fitting type, water pressure and soil conditions.

Precast thrust blocks will be permitted when approved by the City Engineer.

The restraint system must take into account potential future excavations in the vicinity of the water main.

5.10 Water Services

All connections/disconnections to the City water infrastructure shall be in accordance with the Waterworks and Water Supply Bylaw No. 1274

5.10.1 Number of Connections

Only one water service connection will be permitted per legal lot, including single family residential, multi-family sites, mobile home parks, institutional, commercial and industrial developments, except the owner/developer may provide separate water services to each single family unit that is developed in accordance with the Strata Property Act provided all units in the development are ground-oriented. Strata developments and other major developments will be permitted only one (1) connection unless otherwise approved by the City Engineer where site conditions warrant additional connections, fire flow requirements or where a single service is not practical.

5.10.2 Diameter

New water services to single family dwellings shall be no less than 25mm in diameter, installed and located in accordance with Specification Drawings No. W-2 and SER-1. During development, existing water services under the minimum diameter may remain if the service has sufficient capacity for the proposed development and the service is under 25 years old with the approval of the City Engineer.

Water services to all other developments shall be sized in accordance with the current editions of the British Columbia Building Code.

Water service connections for fire hydrants, sprinklers or other fire control facilities shall be sized appropriately. The designer shall ensure the existing municipal water distribution system is adequate under maximum day demand for the flow and residential pressure desired at the point of connection.

5.10.3 Minimum Pressure

Minimum residential water service working pressure during peak hour conditions shall be 210kPa at an elevation of 6.1 meters above the footing elevation at the building site.

5.10.4 Pressure Reducing Valves

Services shall be protected with a pressure reducing valve at the structure on private property.

5.10.5 Curb Stop Location

The curb stop at the end of each service pipe must be located 300mm from the property line, on the road right of way, and at the centre of each lot. Where such locations will conflict with other services, the location may be revised with the approval of the City Engineer. Where curb stops are located within driveways, or behind roll-over curb they shall be protected using a concrete utility box.

5.10.6 Tracer wire

Tracer wire shall be installed with all water services.

5.11 Water Meters

5.11.1 Water Meters

Water meters are required for all developments (including single family and duplex dwellings). One meter per water service connection will be permitted except as noted below in Section 5.11.2. Refer to Specification Drawings No. W-10, W-11 and W-12.

All domestic water and irrigation water use are to be metered. Water for fire hydrants, sprinklers or other fire control facilities does not require metering.

The City will supply all water meters, complete with remote reader and strainer at the full cost of the owner/developer.

5.11.2 Credit Meters

Except in parcels zoned R-1, R-2, R-3, R-7, R-8 or R9, the City will permit the installation of an irrigation credit meter at the owners/developers cost to assist with the sanitary sewerage user fees.

5.11.3 Meter Vaults

Where there is more than one (1) dwelling per legal lot and/or the length of service is greater than 25 meters, or in other site specific cases as determined by the City Engineer, a meter vault will be required on the owner/developer's property within one (1) meter of property line (owner/developer to monitor). Installation shall be in accordance with Specification Drawing No. W-12.

5.12 Valve Box Marker

In Rural areas only, a valve box marker shall be installed for all main line valves. Refer to Specification Drawing No. W-5.

5.13 Pump Stations Control Valves and Reservoirs

City will directly retain consultants for the design and construction supervision of new or modifications to existing pump stations, reservoirs, control valves and metering stations and electrical and SCADA controls for the City's water utilities.

5.14 Corrosion Protection

Where there is a potential for encountering corrosive soils, a geotechnical corrosion analysis on the alignment of any proposed metallic watermain and appurtenances should be conducted to determine the corrosiveness of the native soils. If the soils are determined to be corrosive, measures such as cathodic protection should be included to prevent the corrosion of the watermain and appurtenances.

5.15 Cross Connection Control

There shall be no connection permitted between a public water system and a private water system without approved backflow prevention.

All new buildings, irrigation systems, and municipal piping systems must be protected from backflow and in accordance with the BC Building Code, the Canadian Standards Association B64.10.07 or most current editions and the requirements of the city of Salmon Arm's Cross Connection Control Bylaw 3934.

5.16 Abandonment of Mains

Abandoned sections of utilities shall be removed in accordance with appropriate procedures unless otherwise approved by the City.

B. <u>MATERIALS</u>

Water system materials shall be supplied in accordance with Schedule D – Approved Materials List.

C. <u>INSTALLATION</u>

Water system materials shall be supplied in accordance with Master Municipal Construction Documents (MMCD) Platinum Edition Volume 2 (The MMCD Association, 2009) as amended and Schedule B – Part 3.

D. CLEANING, FLUSHING, DISINFECTING AND TESTING

Water system cleaning, flushing, disinfecting and testing shall be in accordance with Master Municipal Construction Documents (MMCD) Platinum Edition Volume 2 (The MMCD Association, 2009) as amended and Schedule B – Part 3.

The consulting engineer shall complete Schedule C, Form F-13 and submit copies of all laboratory testing results to the City Engineer prior to connection of the new water system to the existing municipal water distribution system.

6.0 SANITARY SEWER SYSTEM

A. DESIGN CRITERIA

6.1 General

6.1.1 Sanitary connection

In any subdivision and/or development, a sanitary collection system to the dwelling must be provided.

6.1.2 <u>Municipal or Alternative Sanitary System</u>

Where connection to the City's sanitary distribution is required, connection shall be provided in accordance with Section 6.3 and the City's Sewer Connection Consolidation Bylaw No. 1410.

Where connection to the City's sanitary system is not required by this bylaw, all subdivision/developments shall have an on-site sanitary disposal/treatment system in accordance with Section 6.2.

6.2 On-site Sanitary Systems

Where a City sanitary distribution system is not available and extension of the system is not required, an on-site sanitary collection and treatment system shall be installed as per the requirements of the provincial Sewerage System Regulation (BC Reg 326/2004) as revised.

Right of ways may be required to be provided by the applicant to allow for the eventual installation of sanitary sewer. Such rights of ways shall be registered in favour of the City of Salmon Arm at the applicant's expense.

6.3 Municipal Sanitary System

No construction shall commence until engineering drawings and sanitary design sheets have been approved by the City Engineer.

6.3.1 Engineering Drawings

Engineering drawings shall show alignment, size, grade, class and depths of pipes, pipe bedding requirements, existing ground line and proposed final ground line over the pipe, location, elevation and detail of all manholes and appurtenances, location of all service connections, inspection chambers, location, access to, size and details of any lift stations, existing and proposed drainage boundaries and loading information, all easements and all such other details as may be required.

6.3.2 Design Sheets

Pipe Sizing calculations shall be submitted in the form of a design sheet. Refer to Specification Drawing SAN-9.

6.4 Main Sizing

The Sanitary system shall be designed with sufficient capacity to collect and convey anticipated flows from the total catchment area to be served when fully developed.

The owner/developer Consulting Engineer to review latest Sanitary Master Plan undertaken by the City to confirm sufficient downstream capacity for the proposed development and future development within each respective catchment boundary.

6.4.1 Design Flow

The design flow shall be the Peak Wet Weather Flow (PWWF)

PWWF = Population (or equivalent) x ADWF x Peaking factor + Infiltration

Where: ADWF is Average Dry Weather Flow

6.4.2 Population

Residential	People/Unit
Low Density (<= 16 Units/ha)	3.3
Medium Density (>= 17 and <= 45 Units/ha)	2.5
High Density (> 45 Units/ha)	1.8
Non-Residential	PE/ha
Commercial	90
Industrial	50
Institutional	90

6.4.3 Average Dry Weather Flow

Average Dry Weather Flow shall be 450 litres per capita per day for residential and 28,000 L/HA/Day for ICI (Industrial, Commercial, and Institutional) properties.

6.4.4 Peak Flow Formula

Peak flows shall be calculated using a peaking factor determined by the Harmon Formula:

Peaking Factor =
$$\frac{18+P^{0.5}}{4+P^{0.5}}$$
 , where P = population in thousands

6.4.5 Infiltration

Infiltration allowance of 0.1 litres/second/hectare (8,640 litres/ha/day).

6.4.6 Pipe Flow Formula Gravity Main

Gravity Sewers shall be designed, for 3/4 depth, using Manning's Formula

$$Q = \frac{AR^{0.667} S^{0.5}}{n}$$

Where,

Q = Design flow in m³ per second

A = Cross sectional area in m²

R = Hydraulic radius in meters

S – Slope of hydraulic grade line in m/m

n – Roughness Coefficient

6.4.7 Pipe Flow Formula Force Main

Force Mains shall be designed using the Hazens-Williams Formula,

$$Q = \frac{CD^{2.63}S^{0.54}}{278 * 780}$$

Where,

Q = rate of flow in litres/second

D = internal pipe diameter in mm

S - Slope of hydraulic grade line in m/m

C = Roughness coefficient

6.4.8 Minimum sanitary main diameter

The minimum sanitary pipe diameter shall be 200mm.

6.4.9 Velocities

The minimum velocity for gravity sewer mains shall be 0.76 m/s, except as noted in Section 6.5.1.

There is no maximum velocity for gravity sewer mains, however, where the velocity exceeds 3.65 m/s consideration should be given to possible scour and shock hydraulic problems.

6.5 Vertical Alignment

6.5.1 Pipe Grade

The minimum pipe grades for pipes 375mm and smaller are:

Pipe Size (mm)	100	150	200	250	300	375
Grade (%)	2.00	1.00	0.45	0.33	0.25	0.20

There is no specified maximum pipe grade; however, gravity and Force Mains installed at grades in excess of 20% shall be reviewed for anchor block, trench dam and joint restraint requirements. See Specification Drawing No. UT-3 and UT-5.

Upstream sections of sewers require steeper grades to ensure self-cleansing velocity under partial flow conditions. The following design alternatives are acceptable:

- The terminal section servicing six (6) or less sanitary connections shall have a grade of 1% greater than the minimum grade specified above.
- A sewer line servicing the 7th to 12th sanitary connection shall have a grade of 0.5% greater than the minimum grade specified in above.

6.5.2 Hydraulic Losses Across Manholes

The minimum drop in invert level across manholes shall be:

Straight Run	Minimum grade
Deflections up to 45°	50mm drop
Deflections 45° to 90°	65mm drop

The crown of the incoming pipe must be at the same elevation as the crown of the outgoing pipe where a change in pipe diameter occurs through a manhole. (or the pipe diameter less the minimum drop where the drop exceeds the change in pipe diameter)

6.5.3 Drop Manholes

An outside drop manhole shall be installed where the elevation of the inlet invert is 900mm, or greater, above the invert elevation of the centre of the manhole channel.

Internal drop manholes are not permitted.

Drop manholes shall be designed in accordance with Specification Drawing No. SAN-3 and shall only be used when incoming sewers cannot be steepened or where site conditions do not permit otherwise.

6.5.4 Depth of Cover

The minimum depth of cover shall be 1.5 meters. City approval is required where sufficient cover is not feasible or available. Insulation may be required.

New sanitary sewers must be deep enough to provide gravity service to the furthest portion of a building envelope with normal basement elevations.

6.5.5 Vertical Curves

Vertical curves of segmented storm main are generally not permitted, however, where specific permission has been granted by the City Engineer, mains in vertical curves shall be uniform throughout the curve, the radius of curvature shall be not less than 50 meters, the pipe grade shall be not less than 1.0% and the design velocity must exceed 0.91 m/s. The deflection in all cases however must not exceed 50% of the manufacturer's recommendations.

6.5.6 Manhole Benching

Manhole benching to be 8:1 slope from crown of pipe.

6.6 Horizontal Alignment

6.6.1 Location in Roadway

Mains shall be aligned as indicated on the applicable road cross section Specification Drawings.

6.6.2 Horizontal Curves

Horizontal curves of segmented sanitary main are generally not permitted, however, where specific permission has been granted by the City Engineer, mains in horizontal curves shall be uniform throughout the curve. The radius of curvature shall be not less than 60 meters, the pipe grade shall be not less than 1.0% and the design velocity must exceed 0.9 m/s. The deflection of pipes in all cases must not exceed 50% of the manufacturer's recommendations for maximum deflection. Tracer wire shall be installed along the curved portion of the sewer.

6.6.3 Sanitary Manholes

Manholes are required at all changes in grade, alignment, size and dead-end mains and not further apart than:

Pipe Size (mm)	375 and smaller	450 to 900	1050 and larger
Maximum Spacing (m)	125	155	185

Manhole lids shall not conflict with curbs, gutters or sidewalks, and where possible shall be located outside of the wheel path of normal traffic flow.

Manhole liners may be required at the City Engineer's request.

6.6.4 Clean-outs

Clean-outs are not permitted in place of manholes except where the sanitary sewer main will be extended for future subdivision/development.

6.7 Service Connections

All connections/disconnections to the City sanitary sewer infrastructure shall be in accordance with the Sewer Connections Consolidation Bylaw #1410

6.7.1 Number of Services

A single service shall be provided to each legal lot. Strata developments and other major developments will be permitted only one connection unless otherwise approved by the City Engineer where site conditions warrant additional connections or where a single service connection is not practical.

6.7.2 Diameter

Sanitary sewer services shall be a minimum of 100mm diameter. Each service shall be installed with an inspection chamber at a minimum grade of 2.0%. Service connections shall be installed and located in accordance with Specification Drawings No. SER-1, SAN-4 and SAN-6.

Sanitary sewer services to multi-family sites, mobile home parks, institutional, commercial and industrial sites shall be sized (minimum 100mm diameter) as required by the current edition of the British Columbia Plumbing Code. Each service shall be installed with an inspection chamber and for sizes up to 150mm and with a manhole at

sewer main for sizes greater than 150mm. Refer to Specification Drawings No. SAN-4 and SAN-6.

6.7.3 Depth and Grade

Sanitary sewer services shall be designed to permit normal basement service to all proposed lots. In all cases, the minimum service grade is 2.0%. Pumping may be allowed with City Engineer approval; however, the service from the main to property line shall be a gravity line at 2.0% min.

6.7.4 Connection into Manhole

A service connection entering a manhole shall have its invert elevation at the crown of the highest main entering the manhole. The service connection shall discharge in the same direction as the benched flow in the sewer main.

6.7.5 <u>Inspection Chambers</u>

The inspection chamber at the end of each service pipe must be located 300mm from the property line, on the road right of way and offset 4.0m from the centre of each lot. Where such locations will conflict with other services, the location may be revised with the approval of the City Engineer. Where inspection chambers are located within driveways, they shall be protected using a Brooks Box or approved equivalent. Refer to Specification Drawings SER-1 and SAN-6.

6.8 Force Mains

6.8.1 <u>Diameter</u>

The minimum force main diameter shall be 100mm.

6.8.2 Velocity

The maximum force main velocity shall be 3.65 m/s and the minimum cleaning velocity shall be 0.9 m/s.

6.8.3 High Points

Air release and vacuum valves, suitable for sewage flow, shall be installed at the high points in all force main installations. Refer to Specification Drawing No. SAN-7.

6.8.4 Tracer Wire

Force main pipes shall be installed with a locating tracer wire.

6.8.5 Connection to Manhole

Force mains shall enter receiving manholes at crown to crown elevation and direct the flow into the receiving channel without excessive spray and in the direction of the receiving sewer flow.

6.9 Pump Stations

The City will directly retain consultants for the design and construction supervision of new or modifications to existing pump stations and electrical and SCADA controls for the City's sewer utilities.

B. <u>MATERIALS</u>

Sanitary sewer materials shall be supplied in accordance with Schedule D – Approved Materials List.

C. <u>INSTALLATION</u>

Sanitary sewer installation shall be in accordance with Master Municipal Construction Documents (MMCD) Platinum Edition Volume 2 (The MMCD Association, 2009) as amended and Schedule B – Part 3.

D. <u>CLEANING, FLUSHING AND TESTING</u>

Sanitary sewer cleaning, flushing and testing shall be in accordance with Master Municipal Construction Documents (MMCD) Platinum Edition Volume 2 (The MMCD Association, 2009) as amended and Schedule B – Part 3.

7.0 STORM WATER MANAGEMENT

A. <u>DESIGN CRITERIA</u>

7.1 General

All Subdivision and Development within the City of Salmon Arm shall be designed to minimize the effect on the natural hydrological and hydro geological regimes, while not compromising the safety of persons or property.

Reference may be made to 'Stormwater Planning: A Guidebook for British Columbia' (Ministry of Water, Land and Air Protection, May 2002) for example of low impact development and best management practices.

http://www2.gov.bc.ca/assets/gov/topic/7BE6D1629C96685698920E29284EBCF4/stormwater planning guidebook for bc.pdf

The stormwater design shall conform to the storm water management plan for each drainage basin as detailed in the current edition of the City of Salmon Arm 'Comprehensive Drainage Planning' report. The owner/developers consulting engineer to review the drainage master plans prepared by the City and confirm sufficient downstream capacity.

7.1.1 <u>Integrated Stormwater Management Plan</u>

An integrated stormwater management plan (report, drawings, design sheets, etc.) prepared by a Professional Engineer or Geoscientist with related experience is required for all subdivision and development where there is or will be an increase in the impermeable area on the site. The complexity of the plan should reflect the complexity of the development.

An integrated stormwater management plan shall use best management practices to minimize the effect to the natural hydrological and hydro geological regimes, while not compromising the safety of persons or property.

Design professionals must consider impacts of climate change, using best practices, in their integrated stormwater management solution.

A stormwater management plan shall attempt to achieve the following parameters where appropriate. Note: Mean Annual Rainfall (MAR) shall be calculated according to the method outlined in Stormwater Planning, A Guidebook for British Columbia (Ministry of Water, Land and Air Protection, 2002).

- Eliminate discharge (infiltrate or reuse) from impervious surface areas for storm events with rainfall depths up to one half of the 24-hour MAR, approximately 10mm.
- Capture of runoff exceeding one half of the 24-hour MAR (approximately 10mm) up to the 24-hour MAR (approximately 20mm) and release at the predevelopment interflow rate to storm sewer or natural drainage course.

- For storm events that exceed the 24-hour MAR, safe conveyance of runoff shall be provided. Where storm sewer is available/required, flows up to and including the 25-year storm shall be conveyed in the sewer. Consideration for safe overland flow routes shall be at minimum to the 100-year storm.

7.1.2 Municipal or Alternative Storm System

Where connection to the City's stormwater collection system is required, connection shall be provided in accordance with Section 7.3 and the City's Sewer Connection Consolidation Bylaw No. 1410.

Where connection to the City's stormwater collection system is not required by this bylaw, all subdivision/developments shall have an alternative stormwater system in accordance with Section 7.2.

7.2 Alternative Stormwater Systems

Where connection to the City's stormwater collection system is not required an alternative stormwater management system is required to address additional runoff created by subdivision or development. All stormwater management systems shall use best management practices to minimize the effect to the natural hydrological and hydro geological regimes, while not compromising the safety of persons or property. When necessary, changes to the natural drainage patterns shall not adversely affect upstream or downstream properties.

7.2.1 Sheet Drainage

Sheet drainage over natural or landscaped areas is an acceptable means of dispersing stormwater from new development on lots where:

- impervious area is less than 10% of the total lot area or the proposed development footprint is less than 30m2;
- all setbacks have been adhered to as specified in the Zoning Bylaw, and;
- Topography is such that there is minimal chance of adverse impacts on adjacent lots.

A covenant is not required where this option is permitted.

7.2.2 <u>Infiltration Systems</u>

Infiltration systems shall be designed to infiltrate the Mean Annual Runoff (MAR) into the native soils within 48 hours. They shall be designed as per the 'Underground Stormwater Infiltration – Best Practices for Protection of Groundwater Resources in British Columbia' (BC MOE, 2014).

MAR to be calculated according to the method outline in 'Stormwater Planning: A Guidebook for British Columbia (Ministry of Water, Land and Air Protection, 2002'.

All infiltration systems shall have pre-treatment which at minimum shall be a sump with an accessible cleanout.

A safe overflow route shall be provided for storms in excess of the capacity of the infiltration system.

A geotechnical report certifying that the operation of the system will not create or exacerbate geotechnical hazards shall be provided.

Depending on size of infiltration system, complexity, proximity to steep slopes or proximity to known stormwater related concerns, a full hydro geological investigation may be required to support the proposed infiltration system.

A covenant is required where this option is permitted. Refer to Section 7.2.4.

Infiltration systems should NOT be considered where there is a potential for slope instability or contamination of aquifers.

7.2.3 <u>Low Impact Development Infrastructure</u>

Low Impact Development (LIDs) infrastructure such as absorbent landscaping materials, vegetated swales, permeable pavement, infiltration aids, etc. shall be reviewed on a case-by-case basis for conformity with the intent of the Section 7.0 of the City's Subdivision and Development Bylaw.

All LIDs shall be designed by a Professional Engineer with related experience and shall be certified upon installation.

Any LIDs that have an installation footprint and/or maintenance requirements shall be clearly identified on an individual lot plan along with an Operation and Maintenance report. A covenant shall be placed on title in accordance with Section 7.2.4.

7.2.4 Covenant

Where a covenant is required for approvals, the owner/developer must register on title of each lot serviced by an on-site stormwater system, a covenant in favour of the City of Salmon Arm with reference to any geotechnical or Operation and Maintenance requirements. The form of the covenant shall be approved by the Approving Officer and City Engineer.

7.2.5 Statutory Right of Way

Where a storm system is not yet available, right of ways may be required to be provided by the applicant to allow for the eventual installation of this facility. Such right of ways shall be registered in favour of the City of Salmon Arm at the applicant's expense.

7.3 Municipal Stormwater Collection System

No construction shall commence until engineering drawings, sewer design sheets and stormwater report have been approved by the City Engineer.

The storm drainage system shall include the entire area tributary to the storm drain and shall be designed with sufficient capacity to collect and convey anticipated storm runoff from the total catchment area to be served when fully developed.

7.3.1 Engineering Drawings

Engineering drawings shall show alignment, size, grade, class and depth of pipes, pipe bedding requirements, existing ground line and proposed final ground line over the pipe, location, elevation and detail of all manholes, catch basins and other stormwater related appurtenances, location of all service connections, inspection chambers, location, access to, size and details of retention or infiltration systems, existing and proposed drainage boundaries and loading information, major and minor flow routes, all easements and all such other details as may be required.

7.3.2 Stormwater Report

The Stormwater Report shall give an overview of the integrated stormwater plan and outline how the proposed stormwater system achieves the stormwater objectives outlined in Section 7.1.1 to the greatest extent possible. All calculations, design parameters, assumptions, etc. shall be outlined in the report.

7.3.3 Design Sheets

Rational Method design calculations are to be tabulated and submitted to the City as part of the Stormwater Report, refer to Specification Drawing ST-15.

7.4 Design Flows

7.4.1 Major and Minor Flow Calculations

For drainage basins greater than 10 hectares in size, design flows shall be based on computer storm modeling, or other methods acceptable to the City.

For drainage basins less than 10 hectare in size, the design flows shall be based on the rational method,

Q = RAIN

Where,

Q = Peak Rate of Run-off in m³/sec

R = Run-off coefficient

A = Area of watershed in Hectares
I – Average Rainfall Intensity in mm/hr

N = 1/360

7.4.2 Peak Rate Run-off (Design Storms)

Minor Flow shall be the 1 in 25 year 24-hour Chicago Rainfall event peak rate of runoff.

Major Flow shall be the 1 in 100 year 24-hour Chicago Rainfall event peak rate of runoff less any piped minor flow.

Post-development design flows and capacity calculations shall include an additional ten percent (10%) upward adjustment applied to the rainfall intensity calculations and be consistent with recommendations in Legislated Flood Assessments in a Changing Climate in BC (EGBC, 2018).

7.4.3 Pre-development Flow

Pre-development flows have been modelled through the City's Stormwater Master Plan (ISL, 2020). The watershed pre-development run-off rate Mean Annual Flood (MAF) is 1.3 L/s/ha and shall be used where development ultimately discharges into a water course or natural waterbody other than Shuswap Lake.

Where development runoff is conveyed through urban development (pipes/roads) to Shuswap Lake, the pre-development run-off rate shall be calculated using best practices assuming a true 'pre-development' forested/vegetated state of the development property.

7.4.4 Run-off Coefficient

Run-off Coefficients, for slopes of 5% and flatter, shall be as follows:

Description of Area	Gravel- Loam	Loamy Sand	Clay
Forest/Woodlands	0.05	0.10	0.15
Public, Recreation, Open Space, Grassland (ALR)	0.10	0.20	0.35
Residential (Suburban, Lots > 0.4ha)	0.25	0.35	0.45
Residential (Low Density)	0.40	0.50	0.60
Residential (Medium Density)	0.50	0.60	0.70
Residential (High Density)	0.65	0.75	0.85
Neighborhood Commercial	0.50	0.60	0.70
Heavy Commercial	0.70	0.85	0.95
Industrial	0.55	0.70	0.80
Pavement or other impermeable surface	0.90	0.90	0.95

Where slopes exceed 5% the above run-off coefficients shall be increased by 10%, compound, for each 5% increment in slope.

7.4.5 Rainfall Intensity

The rainfall intensity for the rational method can be extrapolated from the City rainfall Intensity/Duration/Frequency Curves (refer to Specification Drawing No. ST-7) or calculated by:

$$I = A \times T^B$$

Where, I = rainfall intensity in mm/hr

T = Storm duration in hours

A,B = constants

Return Frequency									
Parameter	2 Year	5 Year	10 Year	25 Year	50 Year	100 Year			
а	10	16.4	20.9	26.7	31.1	35.6			
b	0.706	0.786	0.821	0.854	0.873	0.888			
С	0.02	0.08	0.111	0.142	0.16	0.176			

7.4.6 Design Time of Concentration

The time of concentration is the time required for run-off to flow from the most remote part of the catchment area under consideration to the design node. The time of concentration can be calculated using the following formulas:

$$Tc = Ti + Tt$$

Where, Tc = time of concentration (minutes)

Ti = inlet or overland flow time (minutes)

Tt = travel time in sewers, ditches, channels or water courses (minutes)

Inlet Times (Tt) - Minimum inlet times are 15 minutes for residential areas, and 10 minutes for industrial and commercial areas. Inlet times for larger areas can be calculated using the "Airport Method" or equivalent.

Travel Time (Tt) - Travel time in sewers, ditches, channels or watercourses can be estimated using the modified Manning formula.

Additional information concerning drainage contributing areas and time of concentration is available in the current edition of the City's current Stormwater Master Plan.

7.4.7 Snow Melt

In all cases the Design Engineer (in determining the critical design conditions) is to consider the impact of snowmelt on the drainage system.

7.5 Minor System Design

7.5.1 <u>Design Storm</u>

Storm sewers shall be designed for the 25 year peak storm return frequency.

7.5.2 Pipe Flow Formula

Gravity storm sewer systems shall be designed for full flow, using Manning's Formula as noted below:

$$Q = \frac{AR^{0.667}S^{0.5}}{n}$$

Where, Q = Design flow in m³/sec

A = Cross sectional area in m²

R = Hydraulic radius in meters

S = Slope of hydraulic grade line in m/m

n = Roughness Coefficient

The value of 'n' using Manning's Formula shall be:

PVC, HDPE	0.011
Concrete	0.013
Corrugated Steel Pipe (CSP)	0.024

7.5.3 Minimum Storm Main Diameter

The minimum pipe diameter shall be 250 mm for mains and 200 mm for catch basins.

7.5.4 <u>Velocities</u>

The minimum velocity shall be 0.75 m/s for gravity storm mains

There is no maximum velocity, however, where the velocity exceeds 3.65 m/s consideration shall be given to possible scour and shock hydraulic problems.

7.5.5 Design Flow Adjustment for LIDs

Where low impact development (LID) best management practices are used, mains may be sized according to the required capacity taking 50% of the groundwater recharge capability into consideration. The groundwater recharge component must be calculated and justified by a qualified hydrologist/engineer with experience in this field. Minimum sizes of mains must still be observed.

7.6 Vertical Alignment

7.6.1 Pipe Grade

The minimum slope for the first reach of permanent dead end sewer shall be 1%, where feasible. For sewers other than the first permanent dead end reach, the minimum pipe grades are:

Size (mm)	200*	250	300	375	450	525	600	675	750	825	900
Grade (%)	2.00	0.40	0.32	0.23	0.20	0.18	0.15	0.12	0.10	0.09	0.07

^{*}Catchbasin leads only

There is no specified maximum pipe grade; however, mains installed at grades in excess of 20% shall be reviewed for anchor block, trench dam and joint restraint requirements. See Specification Drawing No. UT-3 and UT-5

7.6.2 <u>Hydraulic Losses Across Manholes</u>

The minimum drop in invert levels across manholes are:

Straight Run	Minimum grade
Defections up to 45°	50mm drop
Deflections 45° to 90°	65mm drop

Horizontal changes of direction greater than 90 degrees are not permitted.

Where a change in diameter occurs across a manhole, the drop shall be a minimum of the difference in the diameters of the pipe or the drop specified above, whichever is greater.

7.6.3 <u>Drop Manholes</u>

An outside drop manhole shall be installed where the elevation of the inlet invert is 900mm, or greater, above the invert elevation of the centre of the manhole channel.

Internal drop manholes are not permitted.

Drop manholes shall be designed in accordance with Specification Drawing No. ST-16 and shall only be used when incoming sewers cannot be steepened or where site conditions do not permit otherwise.

7.6.4 Depth of Cover

The minimum depth of cover shall be 1.5 meters. City approval is required where sufficient cover is not feasible or available. Insulation may be required.

New storm sewers shall have sufficient depth to allow gravity connections from 0.3 meters below the existing or proposed basement floor elevation (at the furthest building envelope point).

7.6.5 Vertical Curves

Vertical curves of segmented storm main are generally not permitted, however, where specific permission has been granted by the City Engineer, mains in vertical curves shall be uniform throughout the curve, the radius of curvature shall be not less than 50 meters, the pipe grade shall be not less than 1.0% and the design velocity must exceed 0.91 m/s. The deflection in all cases however must not exceed 50% of the manufacturer's recommendations.

7.6.6 Manhole Benching

Manhole benching to be 8:1 slope from crown of pipe.

7.7 Horizontal Alignment

7.7.1 Location in Roadway

Mains shall be aligned as indicated on the applicable Road Cross-Section.

7.7.2 Horizontal Curves

Horizontal curves of segmented storm main are generally not permitted, however, where specific permission has been granted by the City Engineer, mains in horizontal curves shall be uniform throughout the curve, the radius of curvature shall be not less than 50 meters, the pipe grade shall be not less than 1.0% and the design velocity must exceed 0.91 m/s. The deflection in all cases however must not exceed 50% of the manufacturer's recommendations.

7.7.3 Storm Manholes

Storm Manholes shall conform to Specification Drawing No. ST-2.

Manholes are required at all changes in grade, alignment, size, dead end mains and at existing and planned intersecting storm sewers.

The maximum spacing between manholes shall be as follows:

Pipe Grade (%)	Less than 5%	5%-10%	Greater than 10%
Maximum Spacing (m)	150m	120m	60m*

^{*}or as directed by City Engineer

Combination catch basin-manholes are generally not permitted.

Manhole lids shall not conflict with curbs, gutters or sidewalks, and where possible shall be located outside of the wheel path of normal traffic flow.

7.7.4 Clean-outs

Clean-outs/Inspection chambers are not permitted in place of manholes except where the storm sewer main will be extended for future subdivision/development.

Location shall not conflict with curbs, gutters or sidewalks, and where possible shall be located outside of the wheel path of normal traffic flow.

7.8 Service Connections

All connections/disconnections to the City Storm sewer infrastructure shall be in accordance with the Storm Connection Bylaw #1410.

7.8.1 Number of Services

A single service shall be provided to each legal lot. Strata developments and other major developments will be permitted only one connection unless otherwise approved by the City Engineer where site conditions warrant additional connections or where a single service connection is not practical.

7.8.2 <u>Diameter</u>

Storm sewer services to single family dwellings and duplexes shall be a minimum of 150mm diameter. Each service shall be installed with an inspection chamber at a minimum of 2.0%. Service connections shall be installed and located in accordance with Specification Drawings SER-1, ST-4 and ST-6.

All multi-family sites, mobile home parks, institutional, commercial and industrial sites shall have a storm sewer system designed adequately to service the parcel. In no case will the service be less than 150mm diameter.

7.8.3 Depth and Grade

Storm sewer services shall be designed to permit normal basement service, as required by the Building Code, to all proposed lots. In all cases, the minimum service grade is 2.0%.

7.8.4 Connection into Manhole

A service connection entering a manhole shall have its crown at the crown of the highest main entering the manhole. The connection shall discharge in the same direction as the flow in the sewer main.

7.8.5 Inspection Chambers

The inspection chamber at the end of each service pipe must be located 300mm from the property line, on the road right of way and offset 3.0m from the centre of each lot. Where such locations will conflict with other services, the location may be revised with the approval of the City Engineer. Where inspection chambers are located within driveways, they shall be protected using a Brooks Box or approved equivalent. Refer to Specification Drawings SER-1 and ST-6.

Manholes will be required in place of inspection chambers for storm sewer connections as specified on Specification Drawing ST-5.

7.9 Foundation Perimeter Drains and Roof Leaders

Foundation perimeter drains shall be connected to a gravity storm system where possible, or otherwise outlet to an infiltration system (refer to Section 7.2.2). Where grade differences permit, foundation drains may be outlet within the property boundaries where doing so will not cause adverse impact to adjacent properties.

Connection of roof leaders shall be addressed as part of the overall integrated stormwater management plan. Roof drainage leaders are to be connected to the storm service only where geotechnical requirements dictate the need. Where direct connection is necessary, all efforts shall be made to slow runoff using LID techniques. Roof leaders shall not be directed onto impervious services which drain directly onto City right-of-way or adjacent properties.

7.10 Catch basins

7.10.1 <u>Spacing</u>

Catch basins shall be installed at regular intervals along roadways, at intersections, and at low points. Refer to Specification Drawing No. ST-1 and ST-14.

Catch basins shall be spaced to drain a maximum area of 500m² on road grades up to 5% and 400m² on steeper grades.

In any event, catch basin spacing shall not exceed 75 meters.

7.10.2 <u>Double Catch Basins</u>

Double catch basins are required at all low points when water is collected from two directions. A single catchbasin may be considered if the total catchment area is less than the allowable area noted above.

7.10.3 Side Inlets

Side inlet catch basins are required where road grades exceed 5%.

7.10.4 Catchbasin Leads

The minimum lead size diameter shall be 200mm for a single catch basin lead and 250mm for a double catch basin lead. The maximum length of a catch basin lead shall be 25 meters.

7.10.5 Location

Wherever possible, catch basins are to be installed at the EC or BC for all curb returns. In no cases shall a catch basin be located in a wheelchair sidewalk ramp or driveways access.

7.10.6 Rear Yard Catchbasin

Rear yard catch basins require a sump manhole at the connection to the mainline regardless of lead size. All infrastructure shall be protected by a Right-of-way in favour of the City.

7.11 Major Flow Routing

7.11.1 <u>General</u>

The major system includes all drainage pathways that convey, detain, divert and intercept the major design storm runoff. The combined capacity of the major (overland) and minor (piped) systems must be able to safely contain storm flows resulting from the 1:100 year design storm.

Major flow routing over 0.05 m³/s shall be shown and sufficient design shall be carried out to provide assurance to the City Engineer that no serious property damage or endangering of public safety will occur under major flow conditions. The discharge point from the development for the major flow route shall be coordinated with the downstream routing to outfalls as determined by the City of Salmon Arm.

7.11.2 Design Storm

Culverts shall be designed for the 100 year peak storm return frequency, unless otherwise specified by the City Engineer.

Culverts under Arterial roadways shall be designed for the 100 year peak storm return frequency with 50% blockage.

Ditches and overland flow routes shall be designed to accommodate 100 year peak storm return frequency (referred to as Major Storm) for the appropriate time of concentration, less any minor flows directed to the storm sewers.

Emergency flow routes shall be designed to accommodate the 100 year peak storm return frequency for the appropriate time of concentration.

All Storm flow calculations shall take into account Climate Change predictions per EGBC Best Practices.

7.11.3 Major Route Flow Sizing

Overland flow channel capacities shall be calculated using the Manning Formula at critical design sections. All habitable areas of buildings shall be above the major flow hydraulic grade line, except where specified flood prevention measures have been taken. Typical Manning Roughness Coefficient 'n' are:

- 0.018 for paved roadway
- 0.03 for grassed boulevards and swales
- 0.04 to 0.10 for irregular or treed channels

7.11.4 Location

Major flows shall be contained within public road allowances and right of ways, and shall discharge off-site to public road allowances and right of ways capable of accepting the design flows.

7.11.5 Major Flow on Roadways

Where the road is used to accommodate major flow, it shall be formed, graded and sufficiently depressed below the surrounding properties to provide adequate hydraulic capacity. On arterial roads, a minimum of 6.0m width (two (2) lanes) shall be free of ponding. On Collector and local roads, the entire roadway may be used as a major flood path with the maximum flow depth not to exceed 200mm.

Where roadways, used for major flows, intersect, care shall be taken to lower the intersection to allow flows to pass over the cross street. Where major flow routes turn at intersections similar care in the road grading design is required. Detailed grading of such areas shall be shown on drawings.

7.11.6 <u>Erosion Protection</u>

Major flow channels shall be designed to resist erosion or other detrimental effects at design flow.

Where major flow outfalls to a receiving water course, the velocity shall not exceed 1.5 m/s. An energy dissipater shall be provided to minimize erosion.

7.11.7 Storm Sewer

In areas where surface major flow routes cannot be provided, or where desired to enable lower building elevations, the pipes and culverts, which form a part of the minor system, may be enlarged or supplemented to accommodate the major flow.

7.12 Hydraulic Grade Line

7.12.1 General

All storm sewer designs must indicate the 100 year HGL. Where necessary, minimum basement elevations should be specified on the grading drawing to ensure a minimum of 0.3 meters of clearance from underside of slab to the 100 year HGL.

7.12.2 Hydraulic Grade Line Formula

Hydraulic Grade Line (HGL) shall be calculated using the Darcy – Weisbach equation as noted below and specified on profile drawings:

$$h_f = \frac{f \times L}{D} \times \frac{V^2}{2g}$$

Where, h_f = head loss due to friction in meters

L = length of the pipe in meters

D = hydraulic diameter of the pipe in meters

V = average velocity of the fluid flow, equal to the volumetric flow rate per unit cross-sectional wetted areas (m/s)

g = local acceleration due to gravity (m/s²)

f = dimensionless coefficient called the Darcy Friction Factor

The starting HGL shall be the greater of the downstream pipe obvert or the 100 year flood elevation of the water course/body

7.12.3 Inlet Control Devices

Inlet control devices (ICDs) may be installed in catch basin where need necessary to lower the HGL. Backflow preventers on storm drains, ICDs or Minimum Basement Elevations (MBEs) may be utilized at the discretion of the City Engineer. Backflow preventers on private services shall be located on private property.

7.13 **Drainage Ditches/Culverts**

Drainage ditches and culverts shall be sized based on the design storms referenced in Section 7.11.2.

In no cases, shall a culvert be less than 400mm in diameter.

Erosion control and/or additional velocity restricting designs may be required as determined by the City Engineer.

Inlet/outlet structures shall be installed on all culverts at roadway crossings as per Section 7.14.

Where fronting residential properties, due consideration shall be given to ease of maintenance.

7.14 Inlet and Outlet Structures

7.14.1 <u>General</u>

Inlet and Outlet Structures shall be designed, and submitted for approval, for each particular application. Precast Inlet and Outlet structures are preferred. Refer to Specification Drawing No. ST-8, ST-9 and ST-10.

Trash racks, energy dissipation, railings, monitoring devices, oil separators, inlet sumps, safety grates and rip-rap shall be provided as required.

7.14.2 Safety Grates and Hand Rails

Lockable, hinged, manufactured safety grates are required on open inlets and outlets 300mm and larger. Refer to Specification Drawing No. ST-11

A handrail shall be installed around inlet/outlet structures 1.2 meters or larger in height.

7.14.3 Erosion Control

Erosion control and/or additional velocity restricting designs may be required as determined by the City Engineer.

7.15 Quality Control

7.15.1 <u>General</u>

Quality control shall be provided for flows up to 50% of the 2 year post development peak flow ('first flush' storm) or the 5 year pre-development peak flow, whichever is greater. Quality treatment facilities include, but are not limited to, oil/grit separators, trapping hoods, sumps, silt traps, detention storage facilities, grassed swales and constructed wetlands.

Treatment facilities should include provisions for maintenance equipment access.

7.15.2 Oil/Water Separators (OWS)

Oil/water separators including coalescing plate separators shall be provided on the storm service, on private property, for all gas stations, vehicle service areas and storage areas for vehicles and construction equipment. A covenant must be placed on title alerting the property owner to the maintenance requirements, etc.

7.15.3 Oil/grit Separators (OGS)

OGS shall be provided on the storm services, on private property, for sites with parking for 50 or more vehicles. OGS shall be a swirl concentrator or equivalent. Design details to be provided by supplier of proprietary system or by designer of equivalent.

OGS will be designed to treat a minimum of 90% of the annual runoff volume of the catchment area.

An internal high flow bypass shall be provided that conveys high flows directly to the outlet such that scour and re-suspension of material previously collected does not occur.

OGS shall be capable of removing 80% of the total suspended sediment load (TSS including fine and clay particles) and 95% of the floatable free oil.

Maintenance access shall be provided to and into the structure for removal of accumulated sediments and oils with a vacuum truck.

OGS shall be installed in a water tight concrete manhole or vault structure.

Where an OGS and detention storage are required, the OGS shall be installed immediately upstream of any required detention storage facility.

7.15.4 Detention Storage Facilities

Underground detention facilities shall be complete with a sump upstream of the control orifice with an accessible clean-out, with exception to storage immediately downstream of an OGS unit (refer to Section 7.15.3).

Above ground detention facilities shall be complete with a sediment forebay with an access road for clean-out equipment. Design parameters may be made available upon request.

7.16 Quantity Control

7.16.1 <u>General</u>

Quantity control is required on all development properties to minimize the effect to the natural hydrological and hydro geological regimes, while not compromising the safety of persons or property. Best efforts shall be made to provide quantity control to meet the criteria outlined in Section 7.1.1.

7.16.2 Detention Facilities

The design of stormwater detention facilities shall be completed by a Professional Engineer qualified in hydrological design.

In general the City encourages detention facilities to be:

- Multi-use facilities that include recreational, environmental and aesthetic aspects as well as flow control and water quality control
- Accessible, including all inlet/outlet structures
- Above ground where possible. In pipe storage within City right of way is discouraged.

7.16.2.1 Above Ground Detention

Detention basins shall be sized to match post-development to pre-development flows up to and including the 25 year storm with safe overland provisions for up to the 100 year storm. Detention basins shall have emergency overflow weirs and a sediment forebay with access road for operations and maintenance.

7.16.2.2 <u>Underground Detention</u>

Where use of underground detention facilities is approved by the City, the facility shall be designed with sumps and access for operations and maintenance to the satisfaction of the City Engineer.

7.16.2.3 Private Detention Facilities

Stormwater retention for commercial, industrial, institutional and multi-family residential may be at surface and/or underground. Rooftop and parking lot storage may be considered where appropriate. B.C. Building Code and City bylaw restrictions shall be met when designing rooftop storage.

7.16.3 Orifice

Orifice size shall be greater than 90mm unless otherwise approved by the City Engineer. Where smaller orifices are required, due consideration shall be given to minimize potential plugging of the orifice and to ensure appropriate emergency overflows and maintenance access is provided.

7.16.4 Infiltration Systems

Refer to Section 7.2.2.

7.16.5 Low Impact Development Infrastructure

Refer to Section 7.2.3.

7.16.6 Natural Drainage Courses

A natural drainage course may remain within private property, with provision for right of way unless under special circumstances such as where the City retains or acquires ownership for park or buffer use.

A natural drainage course shall not be altered or diverted, including altering the contributing drainage area, unless such alteration or diversion has been approved by the City Engineer and all other governing authorities.

Developments that outlet to a natural drainage course shall take all reasonable measures to mimic the naturally occurring hydrology of the basin using best management practices to slow the runoff to pre-development levels. In all cases, outlet to a natural drainage course shall not exceed 1.3 L/s/ha unless otherwise approved by the City Engineer.

Developments that outlet to natural drainage courses shall have suitable quality control, refer to Section 7.15

B. MATERIALS

Storm sewer materials shall be supplied in accordance with Schedule D – Approved Materials List.

C. INSTALLATION

Storm sewer installation shall be in accordance with Master Municipal Construction Documents (MMCD) Platinum Edition Volume 2 (The MMCD Association, 2009) as amended and Schedule B – Part 3.

D. CLEANING, FLUSHING, TESTING

Storm sewer cleaning shall be in accordance with Master Municipal Construction Documents (MMCD) Platinum Edition Volume 2 (The MMCD Association, 2009) as amended and Schedule B – Part 3.

8.0 STREET LIGHTING

A. DESIGN CRITERIA

8.1 British Columbia Electrical Code

The Street Lighting Design shall satisfy the BC Safety Authority Electrical Safety Regulation, Canadian Electrical Code including BC amendments.

8.2 Materials

Electrical materials used in the street lighting system shall be new, labelled and approved by the Canadian Standards Association or equivalent.

Conduit shall be Rigid PVC (RPVC) unless otherwise approved by the City Engineer.

Street Lights shall be Light Emitting Diode (LED) with 7 pin receptacle on all lights with dimmable driver and control (photo cell, shorting cap or controller).

8.3 Levels of Illumination

The average levels of illumination shall be in accordance with the Illuminating Engineering Society of North America (IESNA) RP-8-14.

Where a local road intersects with a Collector or Arterial (Major) roadways, the lighting levels shall meet or exceed the values recommended in IESNA RP-8-14, Table 8.

8.4 Pole Type

Davit poles and fixtures shall be located on all Collector and Arterial (Major) roads. Davit fixtures may be required at intersections other than Collector and Arterial, at the discretion of the City Engineer. Davit fixtures shall be located in industrial areas. Davit luminaries shall be in accordance with Specification Drawing No. SL-1 and SL-2, and in accordance with current Schedule "D" approved materials list.

Decorative top poles and fixtures shall be located within the Town Centre Development Area. Decorative top street lights shall be in accordance with Specification Drawing No. SL-3, SL-4, SL-5, SL-3-I and SL-4-I, and in accordance with current Schedule "D" approved materials list.

Residential type poles and fixtures shall be located on all local class classified roads and all areas not specified above. Residential type street lights shall be in accordance with Specification Drawing No. SL-3, SL-4, SL-5, SL-3-I and SL-4-I and in accordance with current Schedule "D" approved materials list.

Handhole shall be tamperproof.

8.5 Location

Street light Poles shall be off-set as indicated on the applicable road cross-section.

Pole locations, in general shall be aligned with property lines and shall not conflict with driveways, fire hydrants, parking stalls or underground services. Poles shall be located as not to inhibit the movement of snow clearing equipment.

8.6 Electrical Service Connections

Hydro service connections for street lights shall be made to a buried Hydro service box.

Electrical service connections shall be made to a junction box, power pole or lamp standard power base. All electrical designs must incorporate a power base.

8.7 Electrical Permit

Safety Authority Electrical Permit must be submitted to the City within three (3) months of the application date.

8.8 Record Drawings

B. MATERIALS

Street Lighting materials shall be supplied in accordance with Schedule D – Approved Materials List.

C. INSTALLATION

Street Lighting installation shall be in accordance with Master Municipal Construction Documents (MMCD) Platinum Edition Volume 2 (The MMCD Association, 2009) as amended and Schedule B – Part 3. The locations of all Street Light conduits shall be recorded and included on the Record drawings, together with all street lights, identifying lights that have the power base.

D. <u>TESTING</u>

Street Lighting installation shall be in accordance with Master Municipal Construction Documents (MMCD) Platinum Edition Volume 2 (The MMCD Association, 2009) as amended and Schedule B – Part 3.

9.0 HYDRO, TELECOMMUNICATIONS, GAS

A. DESIGN CRITERIA

9.1 General

Where civil works to support hydro, telecommunications and/or gas infrastructure are required by Bylaw No. 4293, the applicant shall construct the works consistent with the regulations, standards and specifications set out in this schedule.

The location of the utility within the road right-of-way shall be as per the applicable road cross-section. See Specification Drawings RD-1 through RD-16.

9.2 B.C. Hydro

- B.C. Hydro servicing shall be designed to B.C Hydro Specifications.
- B.C. Hydro drawings shall have received City approval prior to the commencement of construction.

Prior to commencement of work near energized overhead hydro as defined in WCB regulation – Part 19, the contractor shall complete a WorkSafe BC Form 30M33.

9.3 Telecommunications

Telecommunication servicing shall be designed in accordance with the material specifications of the applicable telecommunication operator and shall be compatible with all other underground utilities.

Telecommunication drawings shall have received City approval prior to the commencement of construction.

9.4 Gas Distribution System

Gas distribution system shall be designed in accordance with the material specifications of the applicable Gas distribution operator and shall be compatible with all other underground utilities.

Gas distribution system drawings shall have received city approval prior to the commencement of construction.

B. MATERIALS

Hydro, Telecommunications and Gas materials shall be supplied in accordance with the applicable utility provider's standards.

C. <u>INSTALLATION</u>

Hydro, Telecommunications and Gas installation shall be in accordance with the applicable utility provider's standards.

D. TESTING

Hydro, Telecommunications and Gas testing shall be in accordance with the applicable utility provider's standards.

10.0 LANDSCAPING

A. <u>DESIGN CRITERIA</u>

10.1 General

Where provisions of the Subdivision and Development Servicing Bylaw No. 4293 require the construction of an irrigation system or vegetative planting, the applicant shall construct the works consistent with the regulations, standards and specifications set out in this schedule.

10.2 Approval Drawings

Engineering drawings showing the detailed design of the landscaping shall be submitted to the City Engineering Department for approval prior to commencement of construction. These drawings shall show basic road and lot network, location of all shallow utilities and above ground appurtenances (manhole lids, IC chambers, hydrants, transformers, street lights, etc.), location of the irrigation lines and appurtenances, the size, location and type of all plantings, topsoil depths, seeding locations and mixes.

The drawings shall conform to the City of Salmon Arm's Landscape Standards and Recommended Species Guide which are available from the City upon request.

10.3 Boulevards

Boulevards which are not required to be landscaped and irrigated shall be provided with a minimum of 300mm of topsoil and either hydro seeded or sodded. Alternative landscaping may be approved at the discretion of the City Engineer. Owner/ =Developer shall be responsible for proper care and maintenance of boulevard for entirety of 1 year maintenance period or until change of ownership of responsible parcel.

The minimum width for grass boulevards shall be 1.0m. Where a separated sidewalk at a distance less than 1.0m is unavoidable the area should either be additional concrete area, or decorative stone placed over a woven fabric weed barrier.

Hydroseeding and seeding within boulevards to conform to the approved materials list seed blend.

10.4 Hydroseeding

Disturbed areas that are not to be otherwise landscaped shall be hydroseeded where the slope is less than 10%. Hydroseeding in conjunction with erosion matting or other ESC controls shall be used where the slope is greater than 10%.

10.5 Sodding

Disturbed areas that are not to be otherwise landscaped shall be sodded where adjacent to existing dwellings/facilities. Sodded areas shall require

10.6 Seeding

Seeding is discouraged, but may be permitted by the City Engineer in areas that are low use and low risk for erosion.

10.7 Irrigation

Irrigation of the boulevards is required for all medium and high density residential developments and all Industrial/Commercial/Institutional developments.

Where the sidewalk is separated from the curb in residential areas, irrigation sleeves shall be installed, one per lot, and the location marked on the sidewalk by stamping the wet concrete with an arrow.

All infrastructure (i.e. sprinkler heads) to be installed a minimum of 5mm below the finished sidewalk grade, or in another manner to minimize damage during snow clearing procedures.

All irrigation services to have appropriate backflow prevention in accordance with the City's current Cross Connection Control Bylaw.

10.8 Street Trees

Street trees shall be installed as required by the City Centre Road Standard. Refer to Specification Drawings RD-5, TRE-1 and TRE-2.

Sufficient un-compacted soil space must be available to accommodate root growth or a soil cells must be provided with sufficient structural capacity to support surrounding infrastructure. Sufficient un-compacted soil space shall be 30 m³ and minimum 2.5m in each dimension for a single tree or 15 m³ and minimum 2.0m in each dimension per tree for multiple plantings.

Root barriers shall be installed to the depth of the adjacent City infrastructure.

City shall provide list of approved plantings upon request.

10.9 Unit Paving

Unit paving shall be provided to the City Centre Standard. Refer to Specification Drawings RD-5, CGS-13, and CGS-14

B. <u>MATERIALS</u>

Landscaping materials shall be supplied in accordance with Schedule D – Approved Materials List.

C. <u>INSTALLATION</u>

Landscaping installation shall be in accordance with Master Municipal Construction Documents (MMCD) Platinum Edition Volume 2 (The MMCD Association, 2009) as amended, current BCLNA guidelines, and Schedule B – Part 3.

D. <u>TESTING</u>

Landscaping testing shall be in accordance with Master Municipal Construction Documents (MMCD) Platinum Edition Volume 2 (The MMCD Association, 2009) as amended and Schedule B – Part 3.

11.0 HILLSIDE DEVELOPMENT

A. DESIGN CRITERIA

11.1 General

Where developments are located within the Hillside Development Area as shown in Schedule A, Map 1 of the Subdivision and Development Servicing Bylaw No. 4293, the design criteria from Schedule B, Sections 1 through 10 shall apply except where amended below.

11.2 Roads

11.2.1 Single Lane Roadways

Use of single lane roadways (one-way traffic) may be permitted within an adequate road network where topography warrants. Single lane roadways are intended for single loaded roads and with under 25 units. Exceptions may be granted with approval by the City Engineer. Parking is to be restricted to the right side of the roadway only.

11.2.2 <u>Lanes</u>

Lanes may be considered where topographic limitations exist. Lanes are intended for single loaded roads and with under 10 units. Exceptions may be granted with approval by the City Engineer.

Lanes within new subdivisions shall conform to Specification Drawing no. RD-12b

11.2.3 Rights-of-ways

Right of ways may be a minimum of 18.0m for two-lane roadways and 10.0m for one-lane roadways where approved by the City Engineer.

11.2.4 Sidewalks

Sidewalk locations adjacent to a roadway may meander within the right-of-way where topography warrants and/or be outside of the roadway right-of-way and protected by statutory right-of-way.

11.2.5 Boulevards

Boulevards may be graded at a slope recommended by a geotechnical engineer. A minimum of 0.5m (low side) or 2.0m (high side) buffer at 2.0% slope towards the roadway must be maintained around all infrastructure or as needed to allow access to and properly support infrastructure.

The hydraulic capacity of the roadway shall be confirmed where part of the overland flow network.

Provisions for snow storage shall be made as required where adequate boulevard space is not provided.

11.2.6 Turn-around

Hammer head turn-around (RD-13) will be permitted where topography prevents installation of full turn around (RD-11).

11.3 Access

Driveways on the low side must have a high point a minimum of 0.10m above the adjacent gutter line or as necessary to maintain the hydraulic capacity of the roadway without overflow onto private property.

Driveways shall conform to City of Salmon Arm Policy 3.11 and shall ensure the first 3.5m of the driveway has a grade of no greater than 7.0%.

Shared driveways and private lanes may be permitted where topography warrants, with the following provisions:

- Dead-end lanes shall service no more than six (6) lots and include turn-around provisions.
- Through lanes and shared driveways shall service no more than 15 lots.
- Minimum paved travel lane width shall be 4.0m with widening as necessary to permit safe vehicle movements.
- Land design must allow for access by emergency, garbage collection and moving vehicles at a design speed of 20km/hour.
- No parking shall be allowed on laneways. Guest parking must be accounted for in onsite design.
- For shared driveways, an appropriately sized and located area will be required for common garbage and recycling pick-up from the road.

B. <u>MATERIALS</u>

Hillside Development materials shall be supplied in accordance with Schedule D - Approved Materials List.

C. <u>CONSTRUCTION</u>

Hillside Development construction shall be in accordance with Master Municipal Construction Documents (MMCD) Platinum Edition Volume 2 (The MMCD Association, 2009) as amended and Schedule B – Part 3.

D. <u>TESTING</u>

Hillside Development testing shall be in accordance with Master Municipal Construction Documents (MMCD) Platinum Edition Volume 2 (The MMCD Association, 2009) as amended and Schedule B – Part 3.

Subdivision and Development Servicing Bylaw No. 4293 Schedule "B" – Part 2



CITY OF SALMON ARM SPECIFICATION DRAWINGS

Master Municipal Construction Documents (MMCD) Platinum Edition Volume II (The MMCD Association, 2009) Standard Detail Drawings apply except where removed, replaced or supplemented as indicated below.

Table <u>2.1</u> – Standard Drawing Reference

Dwg.	MMCD Drawing Description		Dwg.	CoSA Drawing Description
Concre	te and Miscellaneous Details			
CO	Index			
C1	Concrete Sidewalk, Infill and Barrier Curb	Remove		
C2	Concrete Sidewalk and Barrier Curb	Replace	CGS-4a	Separated Standard Sidewalk
C3	Concrete Sidewalk and Rollover Curb	Replace	CGS-4B	Standard Sidewalk
C4	Concrete Curbs – Narrow Base	Replace	CGS-1	Standard High-Back Curb & Gutter
C5	Concrete Curbs – Wide Base	Remove		
C6	Concrete Median Curb and Interim Curbs		CGS-3	Island or Median Curb
C7	Driveway Crossing for Barrier Curbs		CGS-5	Sidewalk Crossing at Driveway Entrance
C8	Wheelchair Ramp for Sidewalk, Infill and Barrier	Remove		
	Curbs			
C9	Wheelchair Ramp for Sidewalk, and Barrier Curbs	Replace	CGS-6	Wheelchair Sidewalk Ramp
C10	Concrete Walkway	Replace	CGS-7	Standard Walkway
C11	Bicycle Baffle			
C12	Removable Restriction Post			
C13	Chain Link Fence for Walkway	Replace	RS-3	Chain Link Fence for Walkway
C14	Handrail on Concrete Retaining Wall			
		Add	CGS-2	Roll-Over Curb & Gutter
		Add	CGS-8	Trail Type 1
		Add	CGS-9	Trail Type 2
		Add	CGS-10	Trail Type 3
		Add	CGS-11	Trail Type 4
		Add	CGS-12	Trail Type 5
		Add	CGS-13	Towncentre Intersection Pedestrian Bulb
		Add	CGS-14	Typical Paver Detail
		Add	RS-1	Reinforced Concrete Stairs



Dwg.	MMCD Drawing Description		Dwg.	CoSA Drawing Description
		Add	RS-2	Sidewalk Railing
Concret	te Base			
	CE1.1 – CE1.20			
		Add	SP-1	Typical Sign Post Base
		Add	SL-2	9.00m Davit Concrete Pedestal
		Add	SL-5	5.00m Post Top Concrete Pedestal
Electric				
	E0.1 – E10.11			
E4.1	Luminaire Pole (Type 2 Shaft)	Replace	SL-1	9.00m Davit Street Lights
E4.2	Luminaire Pole (Type 2 Shaft)			
E4.19	Post Top Luminaire Poles	Replace	SL-3	Post Top Street Light
E4.20	Post Top Luminaire Poles			
E4.21	Service Base			
E4.22	Pole Accessories	Remove		
		Add	SL-3-I	Post Top Street Light with Irrigation & Electrical Outlet
		Add	SL-4	Post Top Street Light/Power Base
		Add	SL-4-I	Post Top Street Light/Power Base with Irrigation &
				Electrical Outlet
		Add	SL-6	Bracket for Hanging Baskets
Genera	Details			
G0	Index			
G1	General Legend for Contract Drawings	Replace	DD-LG	ANSI 'D' Size Legend
G2	Legend for Materials			
G3	Legend for Street Light and Traffic Signal			
	Drawings			
G4	Utility Trench	Replace	UT-1	Typical Utility Trench in Roadway
			UT-2	Typical Utility Trench in Boulevard
G5	Pavement Restoration			
G6	Concrete Encasement for Water Main/Sewer			
	Separation			
G7	Concrete Protection for Underground Utilities			



Dwg.	MMCD Drawing Description		Dwg.	CoSA Drawing Description
G8	Pipe Anchor Blocks	Replace	UT-3	Anchor Blocks
		Add	DD-PL	ANSI 'D' Size Plan Sheet
		Add	DD-PP	ANSI 'D' Size Plan/Profile Sheet
		Add	SC-1	Utility Service Card
		Add	UT-4	Utility Main Relocation Details
		Add	UT-5	Trench Dam Detail
		Add	SER-1	Typical Lot Servicing
Roadw	orks	·		
R0	Index			
R1	Paved Shoulders			
		Add	RD-1	18m R/W Urban Local Road Cross-Section
			RD-2	20m R/W Urban Local Road Cross-Section
			RD-3	20m R/W Urban Collector Cross-Section
			RD-4	25m R/W Arterial Collector Cross-Section
			RD-5	Town Centre Development Area Road Cross-Section
			RD-6A	Industrial Area Road Cross-Section
			RD-6B	New Industrial Park Cross-Section
			RD-7	20m R/W Rural Local Road Cross-Section
			RD-8	20m R/W Rural Collector Road Cross-Section
			RD-9	25m R/W Rural Arterial Road Cross-Section
			RD-10	18m R/W Urban Cul-de-Sac
			RD-11	20m R/W Urban Cul-de-Sac
			RD-11A	20m R/W Temporary Cul-de-Sac
			RD-11B	10m R/W Temporary Cul-de-Sac
			RD-12A	7.3m R/W Lane
			RD-12B	10.0m R/W Lane Cross-Section
			RD-13	Lane-'T' Turn Around
			RD-14	Canoe Beach Drive 20M R/W Road Cross Section (50 th
				Street NE to Park Hill)
			RD-15	18m R/W Urban Local Road Cross-Section (Hillside
				Development)



Dwg.	MMCD Drawing Description		Dwg.	CoSA Drawing Description
			RD-16	12m R/W Urban Single Lane Local Road Cross-Section
				(Hillside Development)
Storm	and Sanitary Sewer			
S0	Index			
S1	Standard and Sump Manholes	Replace	SAN-1	Typical 1050mm Sanitary Manhole
			ST-2	Typical 1050mm Storm Manhole
S2	Standard Manhole Connection Details	Remove		
S3	Manhole Connection Details – Drop and Ramp Type	Replace	SAN-3	Typical 1050mm Sanitary Drop Manhole
S4	Inside Drop Manhole	Remove		
S5	Precast Riser Manhole			
S6	Sewer Clean-out			
S7	Sanitary Sewer Service Connection	Replace	SAN-4	Typical 100mm Sanitary Service Connection
S8	Storm Sewer Service Connection	Replace	ST-4	Typical 150mm Storm Service Connection
S9	Inspection Chamber for 100 to 200 Sanitary Sewer Connection	Replace	SAN-6	Inspection Chamber for Sanitary Connection
S10	Inspection Chamber for 250 to 375 Storm Sewer Connection	Replace	ST-6	Inspection Chamber for Storm Connection
S11	Top Inlet Catchbasin	Replace	ST-1A & ST-1B	Precast Reinforced Concrete Catchbasin
S12	Lawn Drains			
S13	Storm Sewer Inlet with Safety Grillage	Replace	ST-8	Typical Cast in Place Inlet Structure (250 to 600mm dia. Storm Pipe)
S14	Concrete Block Endwall	Replace	ST-9	Concrete Block Inlet/Outlet Structure (250 to 600mm dia. Storm Pipe
S15	Driveway Culvert with Concrete Block Endwalls			·
		Add	SAN-2	H-20 Manhole Frame & Cover (Sanitary)
		Add	ST-3	H-20 Manhole Frame & Cover (Storm)
		Add	SAN-7	Air Release Valve – Forcemain
		Add	SAN-8	Sanitary Dump Station
		Add	ST-5	Manhole Requirements for Storm Sewer Services

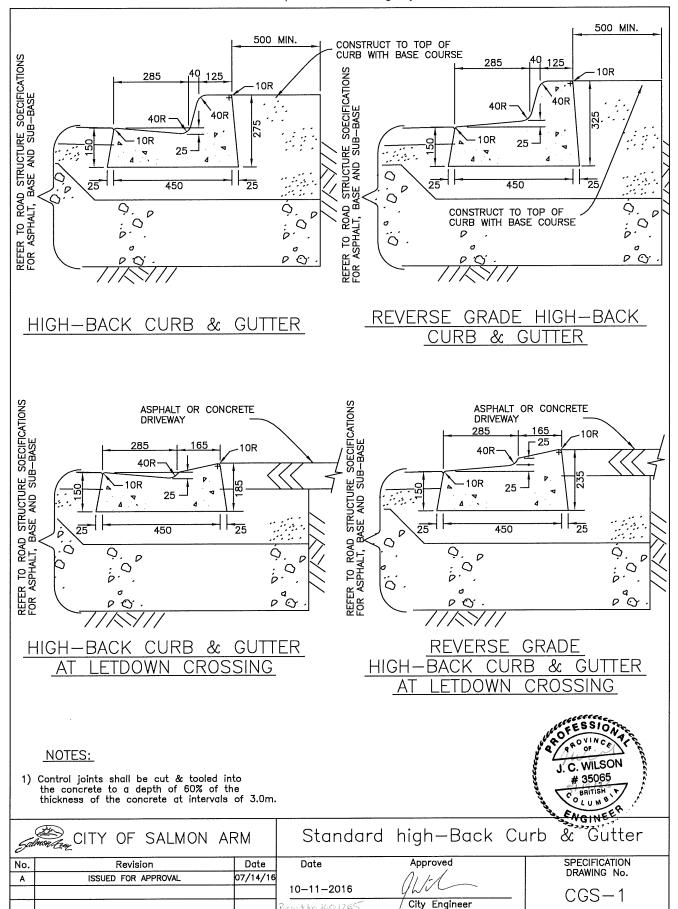


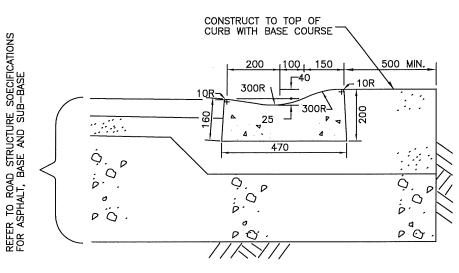
Dwg.	MMCD Drawing Description		Dwg.	CoSA Drawing Description
		Add	ST-7	Rainfall Intensity-Duration Data
		Add	ST-10	Typical Concrete Outlet Structure (250 to 1050mm dia. Storm Pipe)
		Add	ST-11	Safety Grillage fro Inlet/Outlet Structure
		Add	ST-12	Twin Inlet Catch Basin Frame
		Add	ST-13	Typical Drainage Drywell
		Add	ST-14	Typical Catch Basin Drywell
		Add	ST-15	Storm Sewer Design Sheet
		Add	SAN-9	Sanitary Sewer Design Sheet
		Add	ST-16	Typical 1050mm Storm Drop Manhole
Water	vorks			
W0	Index			
W1	Typical Thrust Block Arrangements	Replace	W-1	Thrust Block Details
W2a	Water Service Connection – Service Box	Replace	W-2	Typical 25mm Water Service Connection
W2b	Water Service Connection – Valve Box			
W2c	Meter Installation – For 19mm and 25mm services	Replace	W-10	Residential Water Meter
W2d	Meter Installation – For 38mm and 50mm Service Connection	Replace	W-11	Commercial Water Meter
W3	Gate Valve Installation	Replace	W-5	Standard Valve Box
W4	Fire Hydrant Installation	Replace	W-3	Fire Hydrant Assembly
W5	Test Point Installation			
W6	Air Valve Assemblies – 25mm and 50mm Valves	Replace	W-6	Air Release Valve (100 to 500mm dia. watermain)
W7	Air Valve Assembly - 100mm Valve	Replace	W-7	Air Release Valve (600 to 1200mm dia. watermain)
W8	Blow-Off-For Watermain	Replace	W-4	Typical Blow-off Assembly
W9	Blow-Down Chamber			
W10	Waterworks Chamber Drain			
		Add	W-8	H-20 Manhole Frame & Cover
		Add	W-9	Fire Service Water Vault/Meter Detail
		Add	W-12	Pit Setter
Cathod	lic Protection		•	



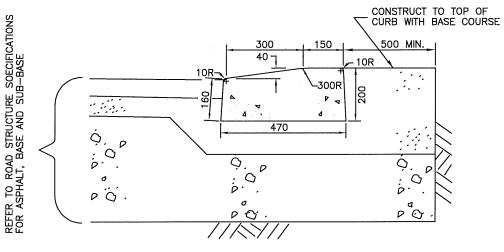
Dwg.	MMCD Drawing Description		Dwg.	CoSA Drawing Description
W100	Index			
W104	Ground Level Test Station Details			
W105	Big Fink Test Station Terminal			
W106	Joint Continuity Bond			
W107	Wire Fastening Detail			
W108	Standard Test Station			
W109	Isolation Test Station			
W110	Sacrificial Anode Station at Isolation Test Point			
W111	Standard Sacrificial Anode Station			
W112	Sacrificial Anode Station with Lateral or Service			
	Connection			
W113	Foreign Utility Test Station			
W114	Impressed Current Cathodic Protection Rectifier Installation			
W115	Horizontal Anode Installation			
W116	Semi-Deep Anode Well Installation			
W119	Fire Hydrant Installation for HDPE Pipe			
Landsca	ipe			
		Add	TRE-1	Typical Double Tree Stakes (for trees over 2m high)
		Add	TRE-2	Typical Tree (with Grate, Guard and Receptacle)







ROLL-OVER CURB & GUTTER



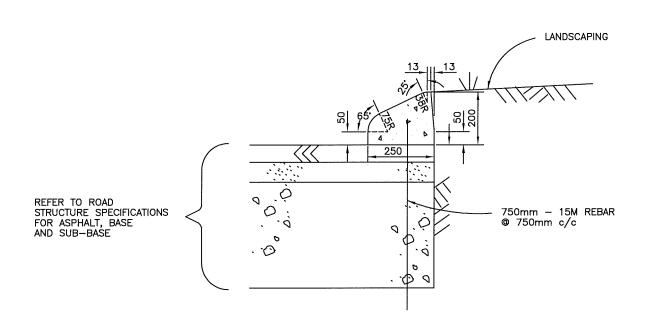
REVERSE GRADE ROLL-OVER
CURB & GUTTER

NOTES:

 Control joints shall be cut & tooled into the concrete to a depth of 60% of the thickness of the concrete at intervals of 3.0m.



5au	CITY OF SALMON A	\RM	R	oll-Over Curb &	c Gutter
No.	Revision	Date	Date	Approved	SPECIFICATION
Α	ISSUED FOR APPROVAL	07/14/16		111-1 -	DRAWING No.
			10-11-2016	YWV	CGS-2
				/ City Engineer	



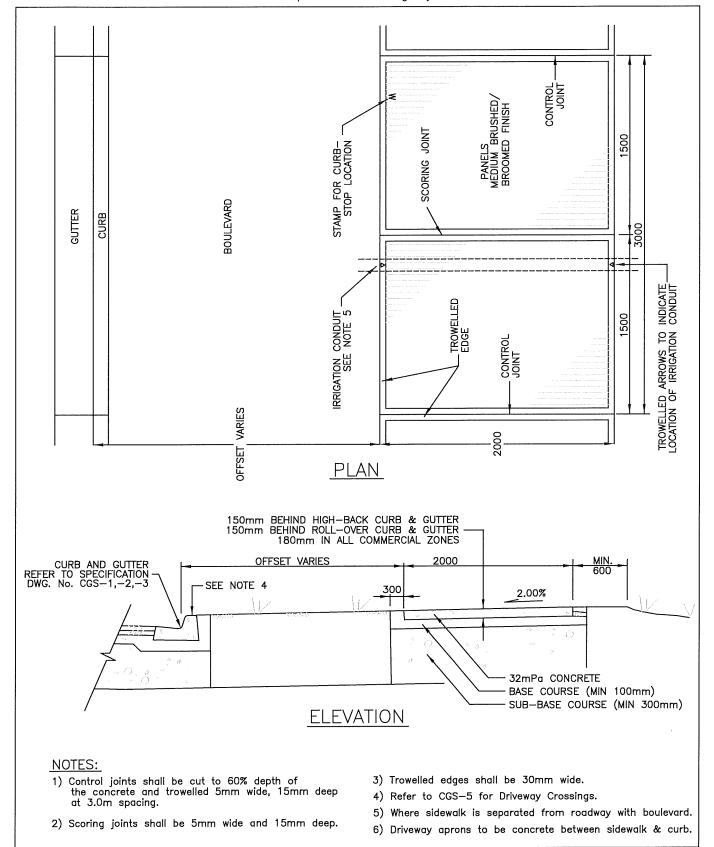


NOTES:

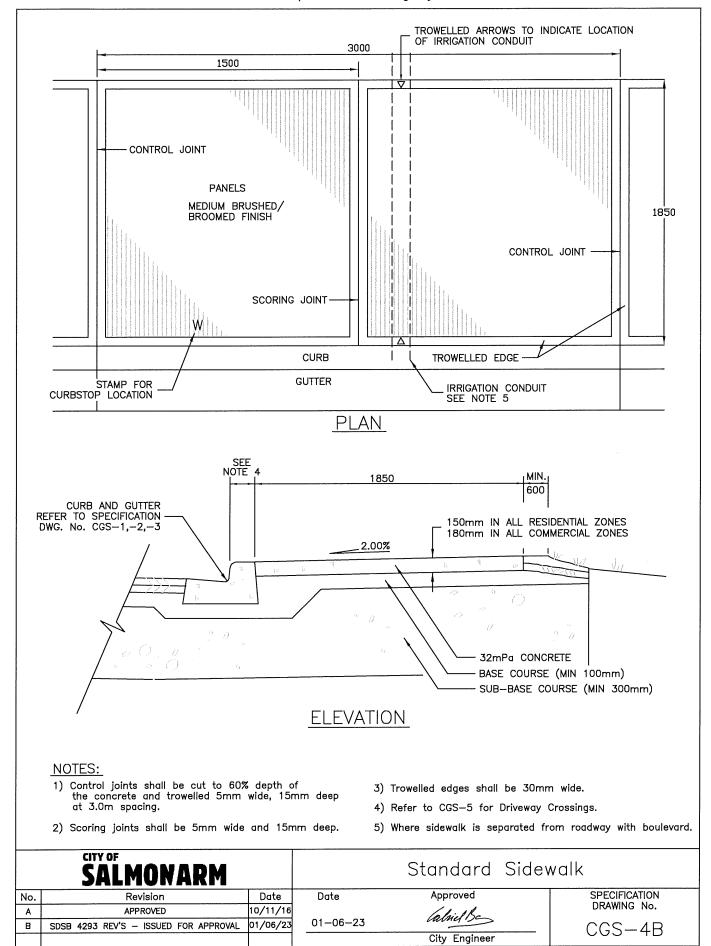
1) 750mm - 19ø Dowels every 750mm.

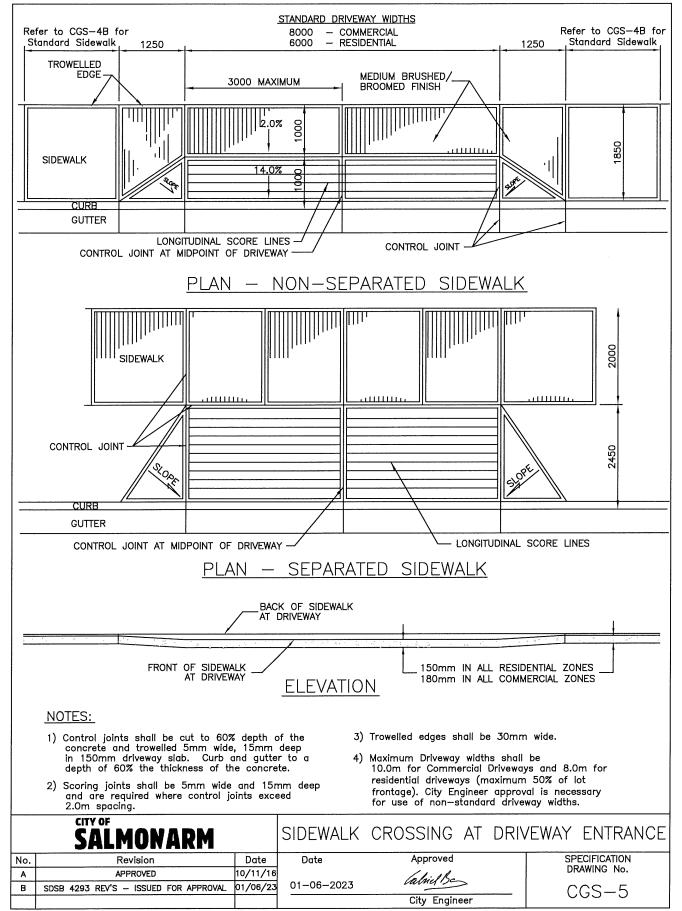
 Control joints shall be cut & tooled into the concrete to a depth of 60% of the thickness of the concrete at intervals of 3.0m.

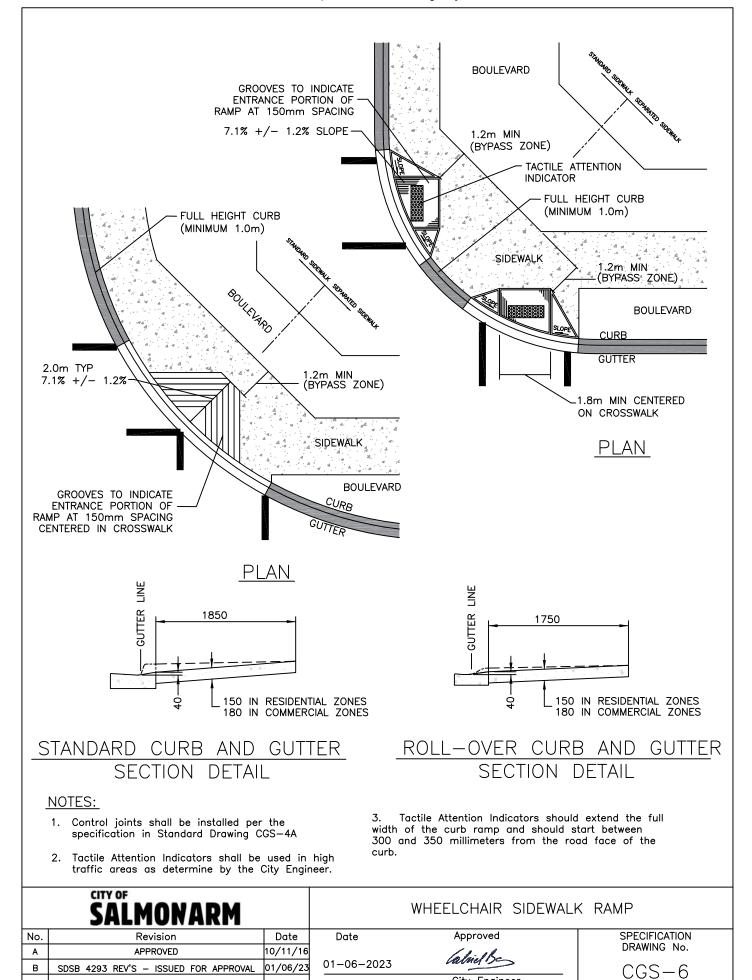
5all	CITY OF SALMON A	.RM		Island or Median	Curb
No.	Revision ISSUED FOR APPROVAL	Date 07/14/16	Date	Approved	SPECIFICATION DRAWING No.
	ISSUED FUR AFFRUVAL	07714710	10-11-2016	JUI -	CGS-3
				/ City Engineer	



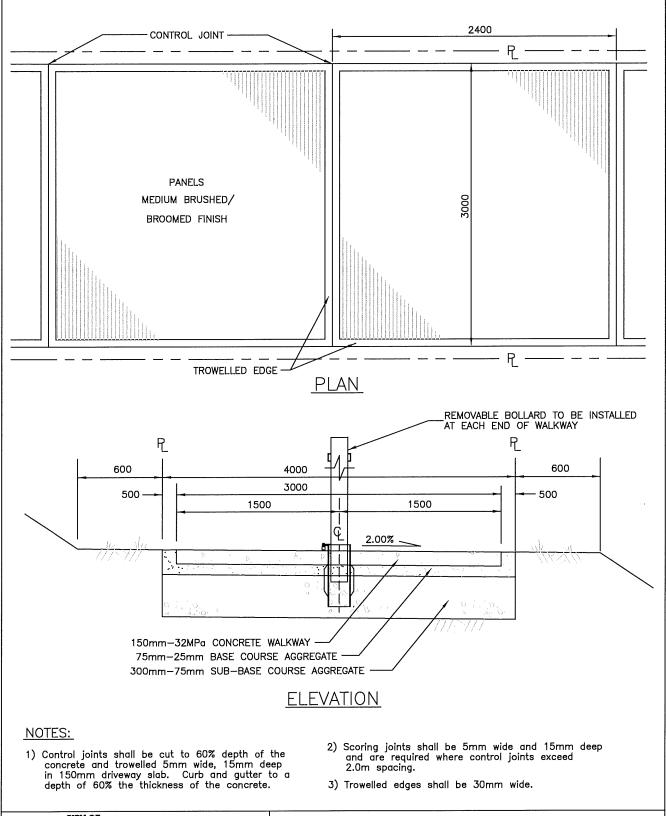
SALMONARM			STANDARD SEPARATED SIDEWALK		
No.	Revision	Date	Date	Approved	SPECIFICATION
Α	APPROVED	10/11/16		Cabriel Be	DRAWING No.
В	SDSB 4293 REV'S - ISSUED FOR APPROVAL	01/06/23	01-06-2023	monaris	CGS-4A
				City Engineer	005 +/



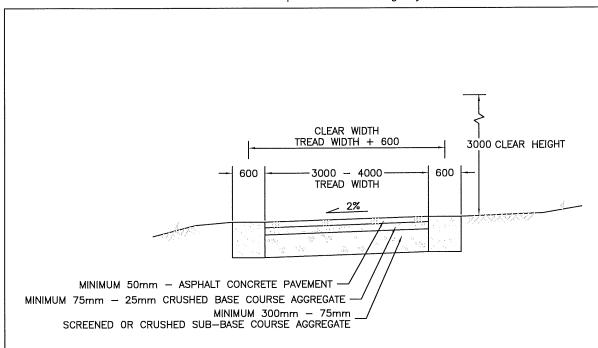




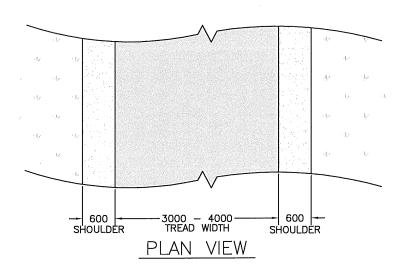
City Engineer



	SALMONARM			Standard Walk	way
No.	Revision	Date	Date	Approved	SPECIFICATION
Α	APPROVED	10/11/16		Calniel Be	DRAWING No.
В	SDSB 4293 REV'S - ISSUED FOR APPROVAL	01/06/23	01-06-23	vavis 5	CGS-7
				City Engineer	000 /

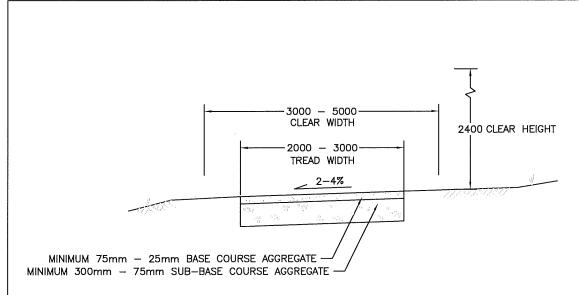


ELEVATION

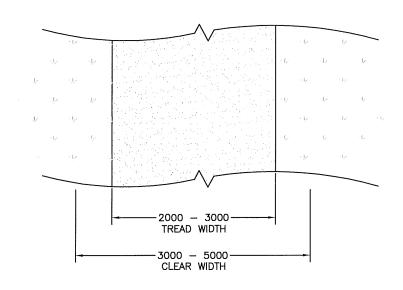


- 1) Trail designed for high use
- 2) Beginner to intermediate user group
- 3) Base and tread materials shall be imported
- 4) Tread surface shall be cross-fall or crowned
- 5) ditching and culverts required for surface drainage
- 6) Base layers shall be below original ground, tread surface shall be near to original ground elevation

SALMONARM			TRAIL	TYPE 1 (MULTI-	-USE PATH)
No.	Revision	Date	Date	Approved	SPECIFICATION
Α	APPROVED	10/11/16		Cabriel Be	DRAWING No.
В	SDSB 4293 REV'S - ISSUED FOR APPROVAL	01/06/23	01-06-2023	unity 195	CGS-8
				City Engineer	000 0



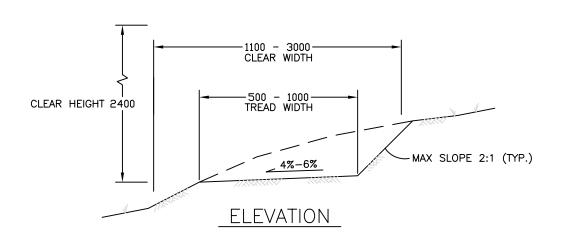
ELEVATIONS

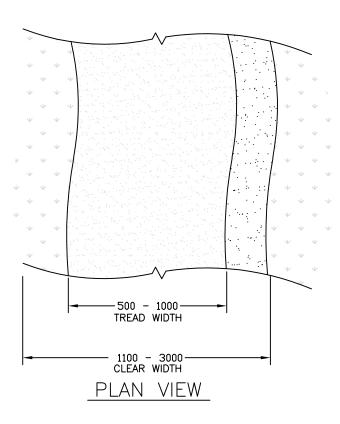


PLAN VIEW

- 1) Trail designed for regular to high use
- 2) Beginner to intermediate user group
- 3) Base and tread materials shall be imported
- 4) Tread surface shall be crowned or cross-fall
- 5) ditching and culverts required for surface drainage
- 6) Base layers shall be below original ground, tread surface shall be near to original ground elevation

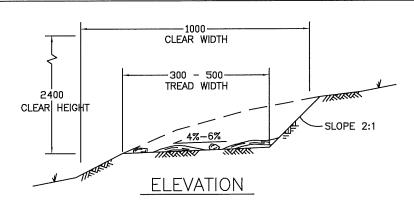
SALMONARM				TRAIL TYPE	2
No.	Revision	Date	Date	Approved	SPECIFICATION
Α	APPROVED	10/11/16		Calaille	DRAWING No.
В	SDSB 4293 REV'S - ISSUED FOR APPROVAL	01/06/23	01/06/2023	ming 15	CGS_9
				City Engineer	000 0

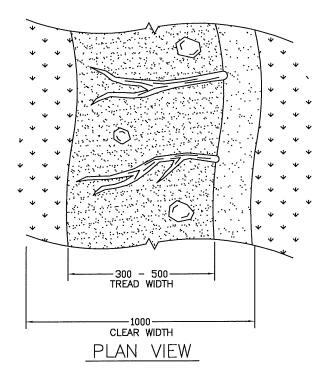




- 1) Trail designed for regular use
- 2) Beginner to advanced user group
- 3) Roots and rocks shall be removed from tread surface
- 4) Tread surface shall be of compacted native material
- 5) Grades in excess of 2H:1V shall be recommended by a geotechnical engineer and approved by the City Engineer.

	SALMONARM			TRAIL TYPE	3
No.	Revision	Date	Date	Approved	SPECIFICATION
Α	APPROVED	10/11/16		Calmiel Be	DRAWING No.
В	SDSB 4293 REV'S - ISSUED FOR APPROVAL	01/06/23	01-06-2023	uning 15	CGS-10
			•	City Engineer	

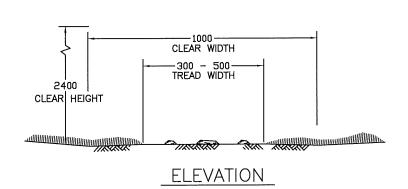


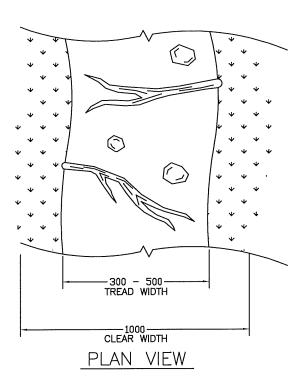


- Trail designed for moderate to low use
 Intermediate to advanced user group
 roots and rocks may remain in tread surface
- Tread surface shall be of native material
- Roots shall run perpendicular to trail direction
- 6) Rocks left in tread shall be smooth and only left in tread if necessary
 7) Large roots should be covered to protect them from damage
- 8) Grades in excess of 2H:1V shall be recommended by a geotechnical engineer and approved by the City Engineer.

5al	CITY OF SALMON A	кМ		TRAIL TYPE	4
No.	Revision	Date	Date	Approved	SPECIFICATION
Α	ISSUED FOR APPROVAL	07/14/16		111-1 -	DRAWING No.
			10-11-2016	9200	CGS-11
				/ City Engineer	000 11





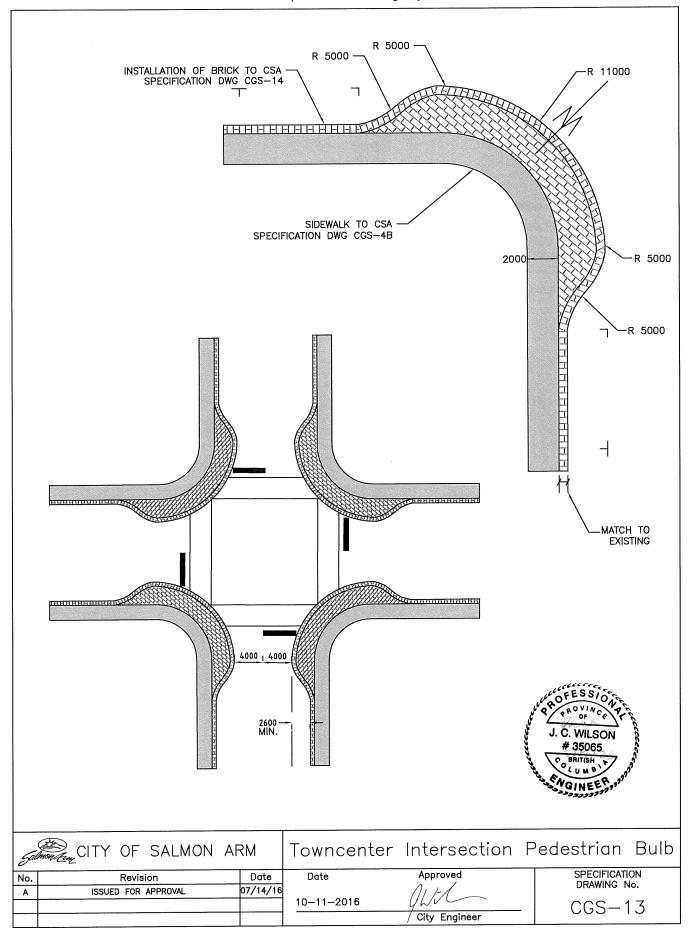


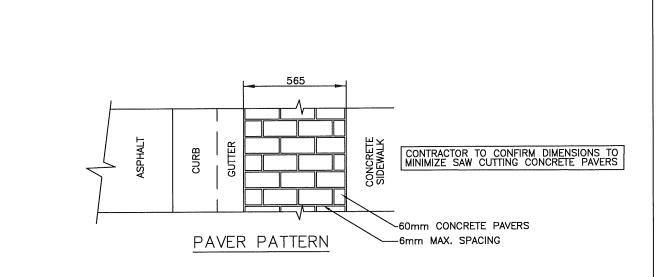


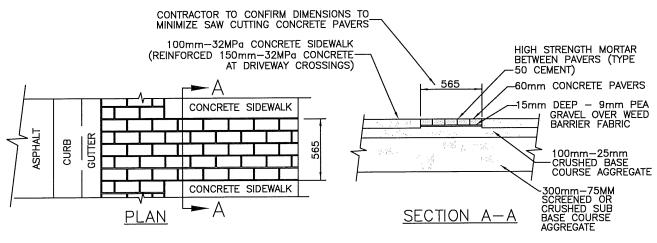
- Trail designed for low use and low impact
 Intermediate to advanced user group
 roots and rocks may remain in tread surface
- 4) NOT for equestrian or motorized use
 5) Avoid grubbing of trail, tread surface shall be created by natural wear of the native surface material
- 6) Boardwalks shall be used for highly sensitive areas

5almon		ARM		TRAIL TYPE	5
No.	Revision	Date	Date	Approved	SPECIFICATION
Α	ISSUED FOR APPROVAL	07/14/16		111-1 -	DRAWING No.
			10-11-2016	YWV -	CGS-12
				/ City Engineer	



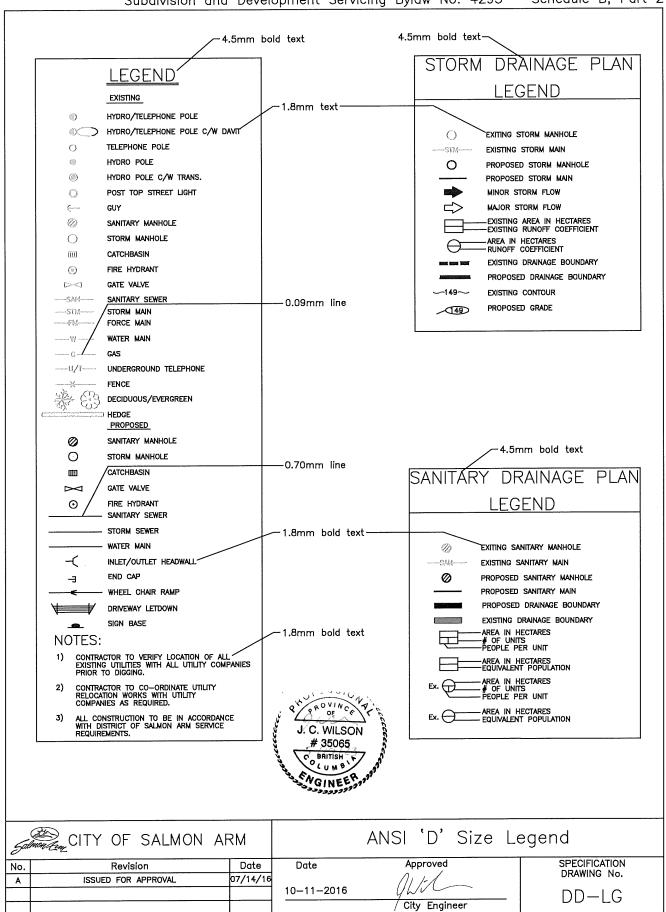


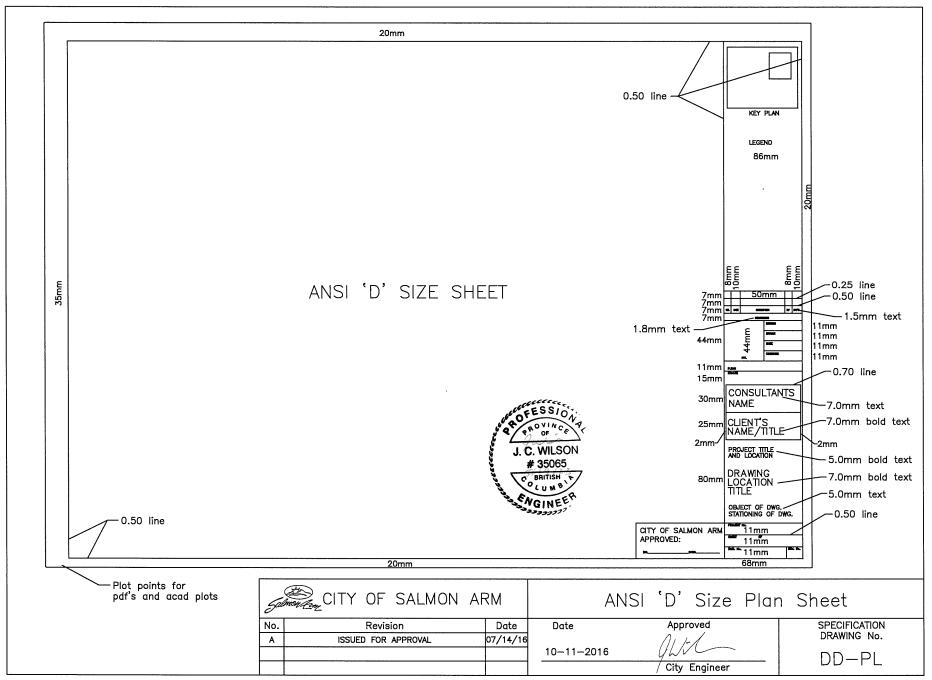


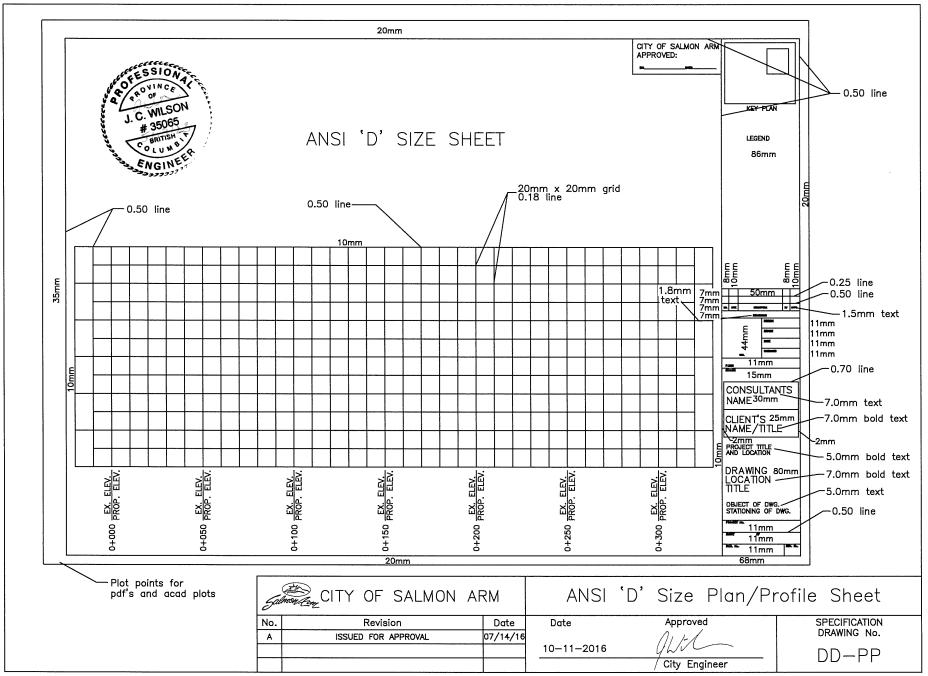


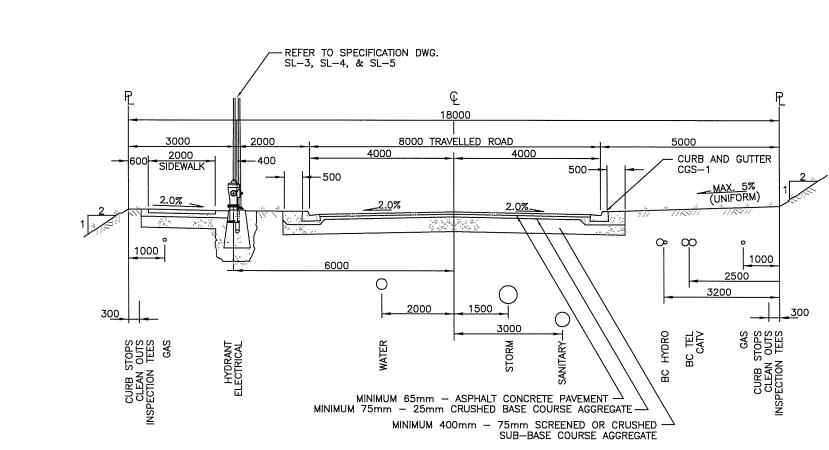
PAVERS IN SIDEWALK (90° TO CURB)

SALMONARM			Typical Paver	Detail
Revision	Date	Date	Approved	SPECIFICATION
APPROVED	10/11/16		Coloiel Bc-	DRAWING No.
SDSB 4293 REV'S - ISSUED FOR APPROVAL	01/06/23	01-06-23	uung 15	CGS-14
			City Engineer	
	SALMONARM Revision APPROVED	Revision Date APPROVED 10/11/16	Revision Date Date APPROVED 10/11/16	Revision Date Date Approved APPROVED 10/11/16 SDSB 4293 REV'S - ISSUED FOR APPROVAL 01/06/23 01-06-23



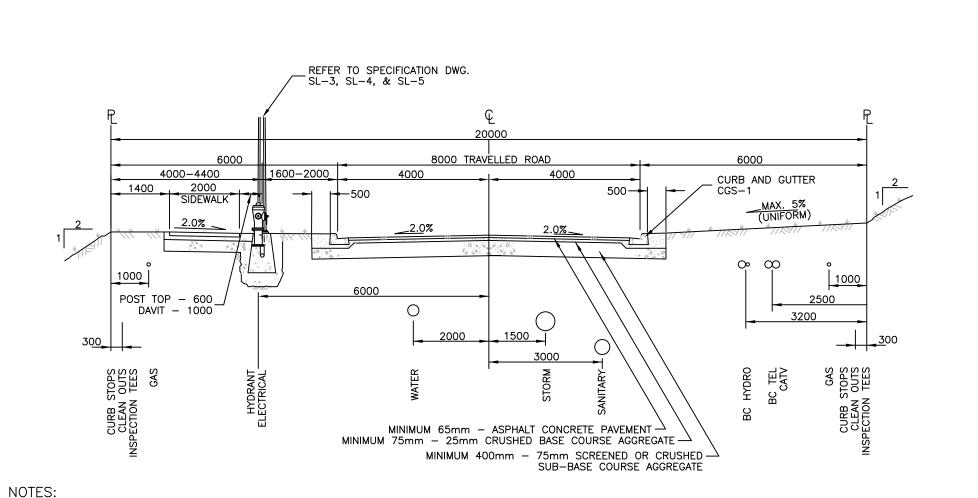






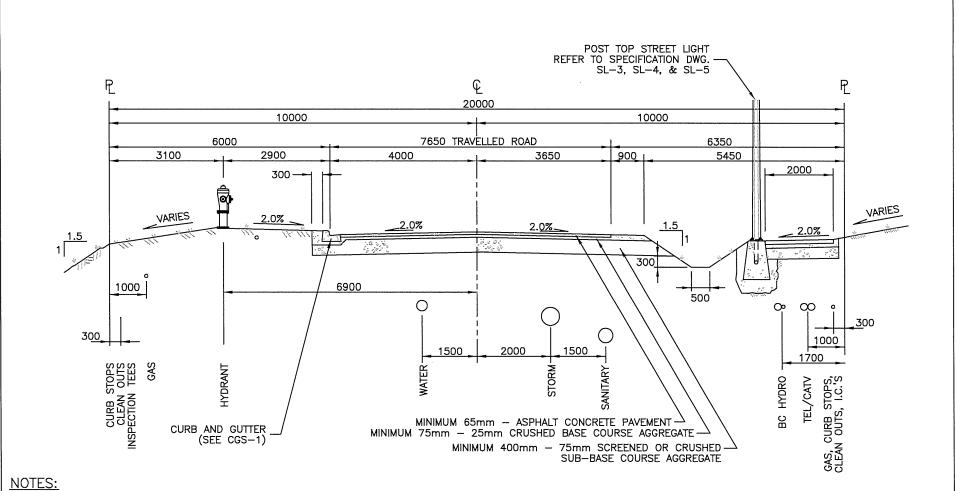
- 1) All utility appurtenances to be set to designed boulevard grade.
- 2) Boulevards to be graded towards the Roadway (Maximum 5% and Minimum 2%)
- All materials shall be supplied and placed in accordance with schedule B, Part 3.0 and Schedule D, Approved material list.
- 4) Grades in excess of 2H:1V shall be recommended by a geotechnical engineer and approved by the City Engineer.

SALMONARM		18m R/W	Urban Local Roa	d Cross—Section	
No.	Revision	Date	Date	Approved	SPECIFICATION
Α	APPROVED	10/11/16		Calviel Be	DRAWING No.
В	SDSB 4293 REV'S - ISSUED FOR APPROVAL	01/06/23	01-06-2023	vuvia i)	RD_1
				City Engineer	IND I



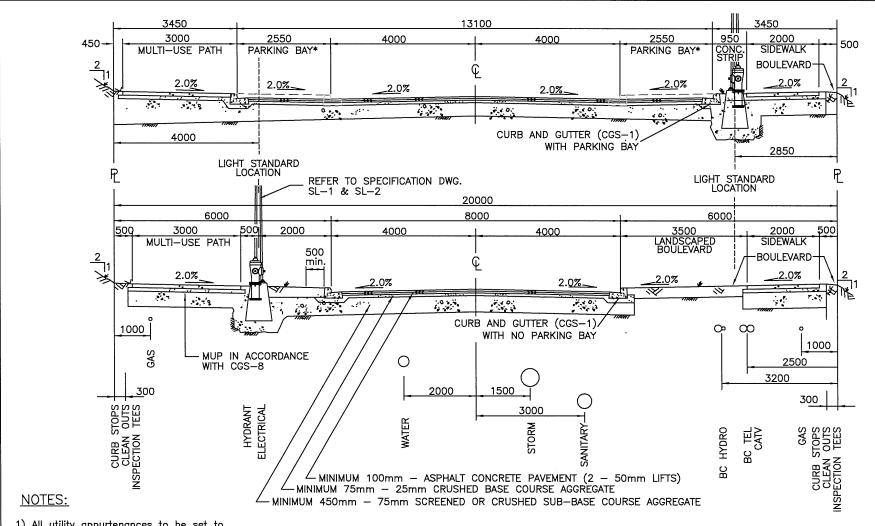
- 1) All utility appurtenances to be set to designed boulevard grade.
- 2) Boulevards to be graded towards the Roadway (Maximum 5% and Minimum 2%)
- 3) All materials shall be supplied and placed in accordance with schedule B, Part 3.0 and Schedule D, Approved material list.
- 4) Grades in excess of 2H:1V shall be recommended by a geotechnical enginee and approved by the City Engineer.

		SALMONARM		20m R/W	Urban Local Roa	d Cross-Section
er	No.	Revision	Date	Date	Approved	SPECIFICATION
	Α	APPROVED	10/11/16		Cabriel Be	DRAWING No.
	В	SDSB 4293 REV's - ISSUED FOR APPROVAL	01/06/23	01-06-2023	immi	RD-2
					City Engineer	ND Z



- 1) All utility appurtenances to be set to designed boulevard grade.
- 2) Boulevards to be graded towards the Roadway (Maximum 5% and Minimum 2%)
- 3) All materials shall be supplied and placed in accordance with schedule B, Part 3.0 and Schedule D, Approved material list.
- 4) Grades in excess of 1.5H:1V shall be recommended by a geotechnical engineer and approved by the City Engineer.

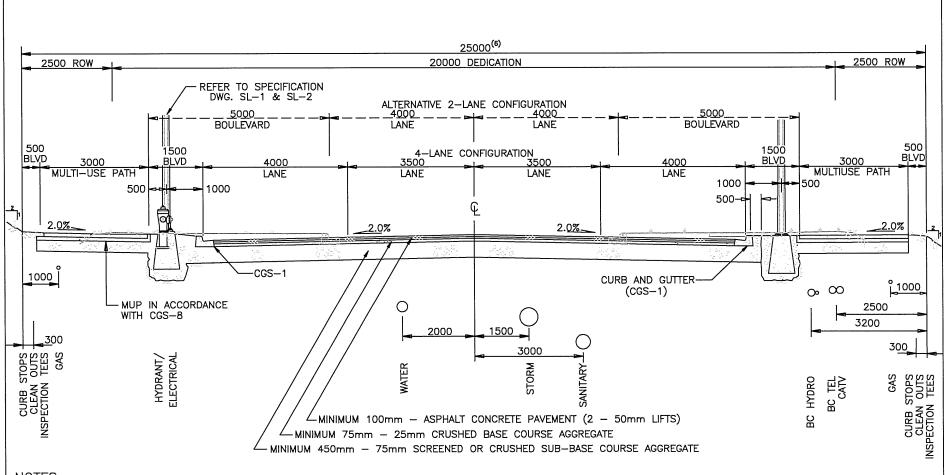
SALMONARM		TYPICAL	20TH STREET	NE	ROAD	SECTION	
No.	Revision	Date	Date	Approved			CIFICATION
Α	APPROVED	10/11/16		Calriel Be		DRA	WING No.
В	SDSB 4293 REV'S - ISSUED FOR APPROVAL	01/06/23	01-06-2023	invig 15		RD-2	(MOD)
				City Engineer			- (10100)



- 1) All utility appurtenances to be set to designed boulevard grade.
- 2) Boulevards to be graded towards the Roadway (Maximum 5% and Minimum 2%)
- All materials shall be supplied and placed in accordance with schedule B, Part 3.0 and Schedule D, Approved material list.
- 4) Grades in excess of 2H:1V shall be recommended by a geotechnical engineer and approved by the City Engineer.

 Parking bay shall be located on either or both sides of the roadway per design criteria in Schedule B-1.0 section 4.8.14

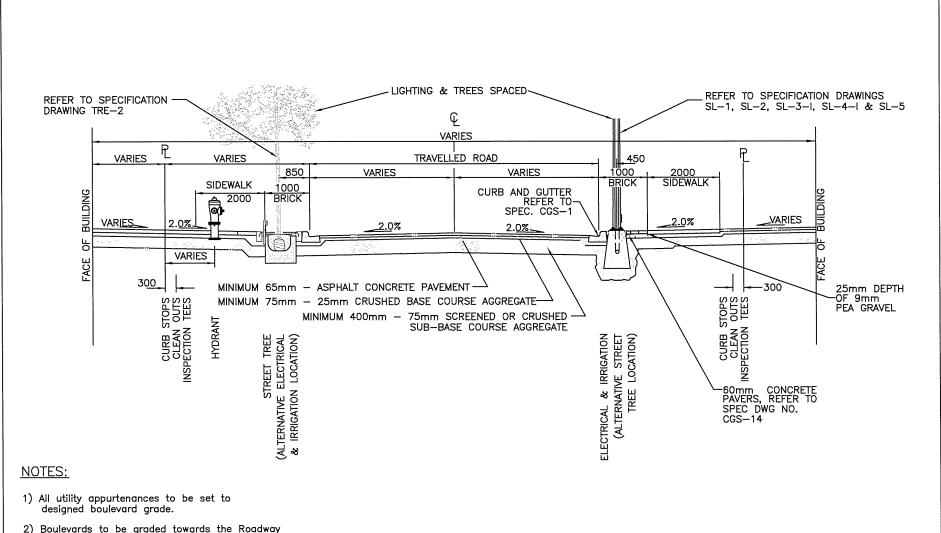
JALITONARIT		20m	R/W	Urban	Collector	Cross—Section	
No.	Revision	Date	Date		Appro	ved	SPECIFICATION
Α	APPROVED	10/11/16			Calrie	18-	DRAWING No.
В	SDSB 4293 REV'S - ISSUED FOR APPROVAL	01/06/23	01-06-	-2023	une	105	RD_3
					City E	Ingineer	ND 5



- 1) All utility appurtenances to be set to designed boulevard grade.
- 2) Boulevards to be graded towards the Roadway (Maximum 5% and Minimum 2%)
- All materials shall be supplied and placed in accordance with schedule B, Part 3.0 and Schedule D, Approved material list.
- 4) Grades in excess of 2H:1V shall be recommended by a geotechnical engineer and approved by the City Engineer.

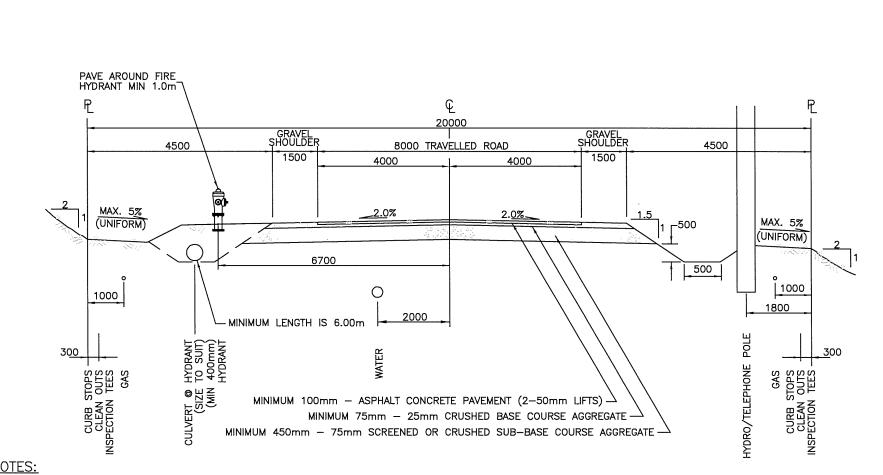
- 5) Additional 3.5m x 3.5m ROW may be required for BC Hydro infrastucture.
- Where 25.0m of dedication is not available, ROW shall be provided to supplement available dedication.

SALMONARM		25m R/W	Urban Arterial Roc	ıd Cross—Section	
No.	Revision	Date	Date	Approved	SPECIFICATION
Α	APPROVED	10/11/16		Calriel Be	DRAWING No.
В	SDSB 4293 REV'S - ISSUED FOR APPROVAL	01/06/23	01-06-2023	burney 15	l RD_4
			•	City Engineer	ND 1



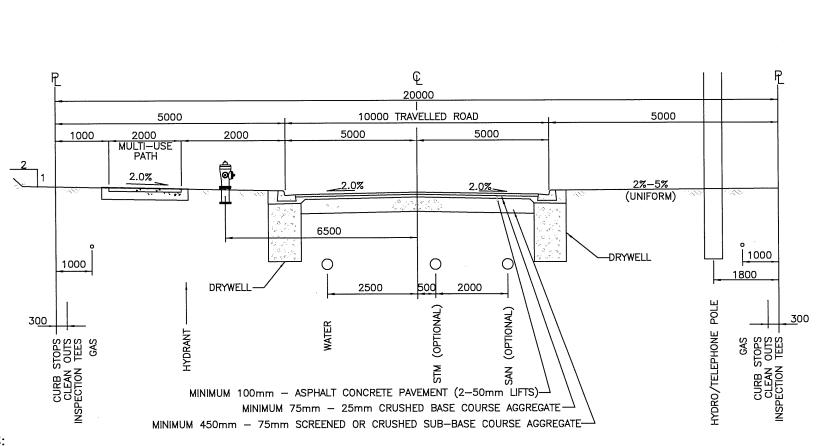
- 2) Boulevards to be graded towards the Roadway (Maximum 5% and Minimum 2%0
- All materials shall be supplied and placed in accordance with schedule B, Part 3.0 and Schedule D, Approved material list.

	SALMONARM		Town Centre	Development Area	Road Cross—Section
No.	Revision	Date	Date	Approved	SPECIFICATION
Α	APPROVED	10/11/16		Calviel Be	DRAWING No.
В	SDSB 4293 REV'S - ISSUED FOR APPROVAL	01/06/23	01-06-2023	hung 15	RD-5
				City Engineer	



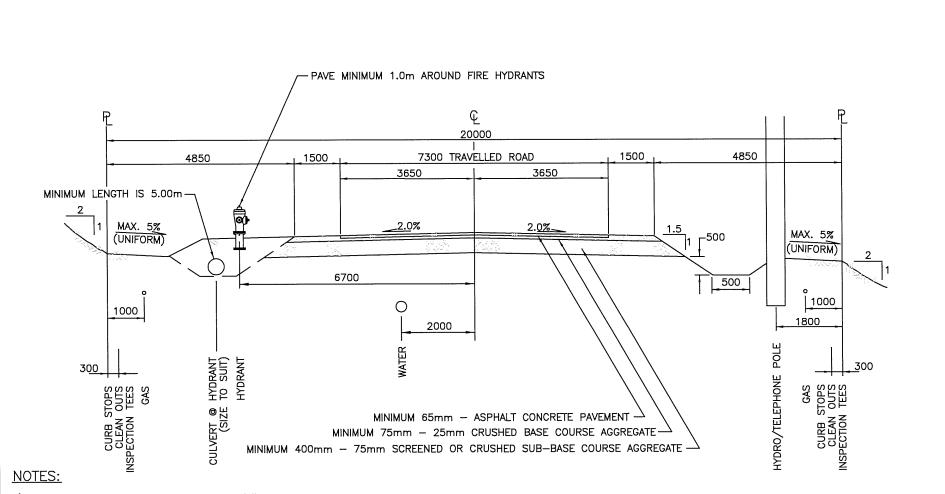
- 1) All utility appurtenances to be set to designed boulevard grade.
- 2) Boulevards to be graded towards the Roadway (Maximum 5% and Minimum 2%)
- 3) All materials shall be supplied and placed in accordance with schedule B, Part 3.0 and Schedule D, Approved material list.
- 4) Grades in excess of 2H:1V shall be recommended by a geotechnical engineer and approved by the City Engineer.

	CITY OF SALMONARM		Industrial	Area	Road	Cr	oss-Section
No.	Revision	Date	Date	Appro	ved		SPECIFICATION
Α	APPROVAL	10/11/16		(ali:	1Bc		DRAWING No.
В	SDSB 4293 REV'S - ISSUED FOR APPROVAL	01/06/23	01-06-2023	une	100		RD-6A
				City E	ingineer	_	ND OA



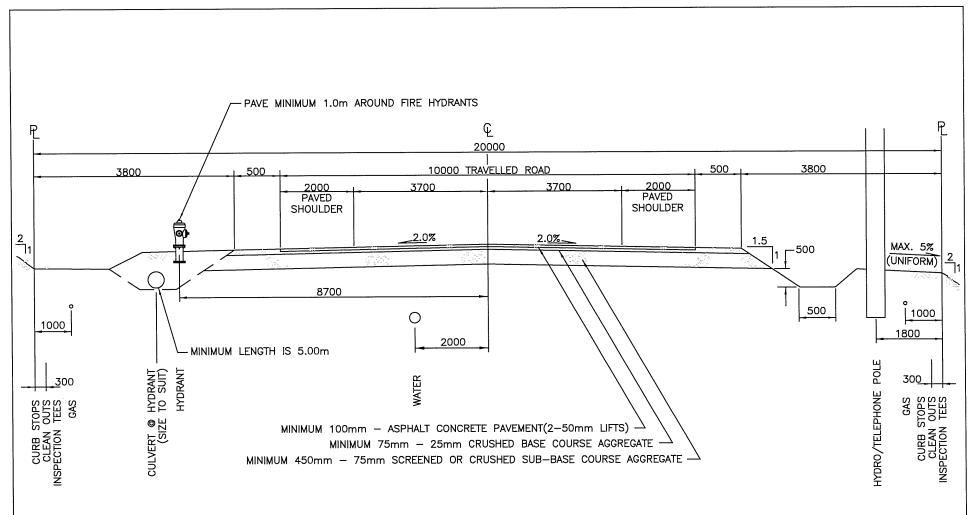
- 1) All utility appurtenances to be set to designed boulevard grade.
- 2) Boulevards to be graded towards the Roadway (Maximum 5% and Minimum 2%)
- All materials shall be supplied and placed in accordance with schedule B, Part 3.0 and Schedule D, Approved material list.
- 4) Grades in excess of 2H:1V shall be recommended by a geotechnical engineer and approved by the City Engineer.

	SALMONARM		New	Industrial Park	Cross-Section
No.	Revision	Date	Date	Approved	SPECIFICATION
Α	APPROVED	10/11/16		2023 Calriel Be	DRAWING No.
В	SDSB 4293 REV'S - ISSUED FOR APPROVAL	01/06/23	01-06-2	2023	_
				City Engineer	1000



- 1) Where gravel surface is permitted, crossfall shall be 4.0%
- 2) Drainage shall be sheet drainage, no point load drainage permitted
- All materials shall be supplied and placed in accordance with schedule B, Part 3.0 and Schedule D, Approved material list.
- 4) Grades in excess of 2H:1V shall be recommended by a geotechnical engineer and approved by the City Engineer.

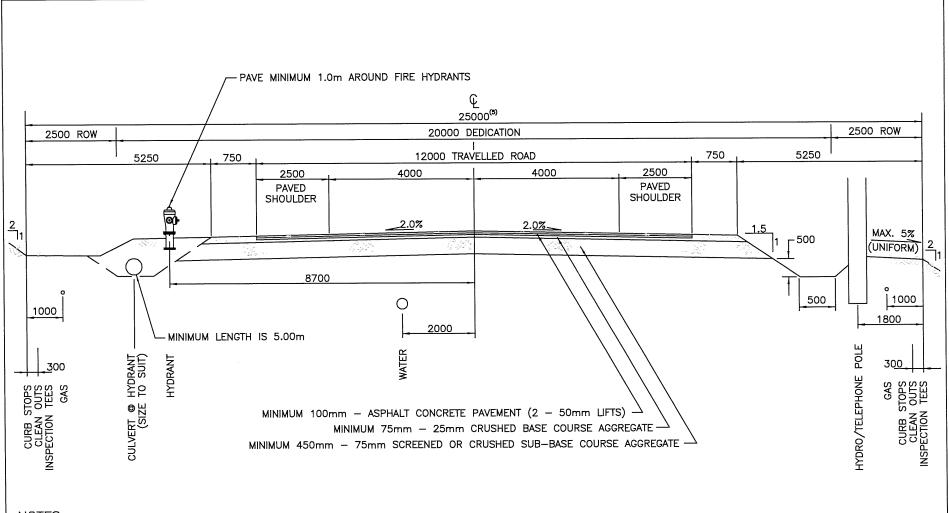
	CITY OF SALMONARM		20m R/W	Rural Local Road	Cross-Section
No.	Revision	Date	Date	Approved	SPECIFICATION
Α	APPROVED	10/11/16		Calviel Be	DRAWING No.
В	SDSB 4293 REV'S - ISSUED FOR APPROVAL	01/06/23	01-06-2023	uung 155	RD-7
				City Engineer	



- 1) Where gravel surface is permitted, crossfall shall be 4.0%
- 2) Drainage shall be sheet drainage, no point load drainage permitted
- All materials shall be supplied and placed in accordance with schedule B, Part 3.0 and Schedule D, Approved material list.
- 4) Grades in excess of 2H:1V shall be recommended by a geotechnical engineer and approved by the City Engineer.

5) Where ROW exists and topography allows, an offset 3.0m multi—use path shall be installed and the paved shoulders may be reduced to a 1.5m gravel shoulder.

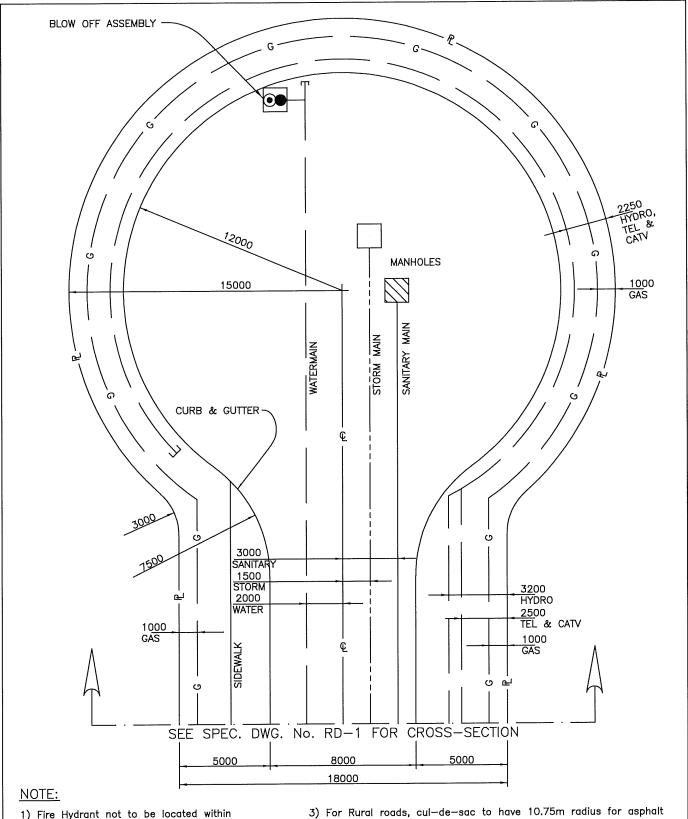
	SALMONARM		20m R/W	Rural Collector Roc	d Cross—Section
No.	Revision	Date	Date	Approved	SPECIFICATION
Α	APPROVED	10/11/16		Calviel Be-	DRAWING No.
В	SDSB 4293 REV'S - ISSUED FOR APPROVAL	01/06/23	01-06-2023	wing 5	RD-8
				City Engineer	ND 0



- 1) Where gravel surface is permitted, crossfall shall be 4.0%
- 2) Drainage shall be sheet drainage, no point load drainage permitted
- All materials shall be supplied and placed in accordance with schedule B, Part 3.0 and Schedule D, Approved material list.
- 4) Grades in excess of 2H:1V shall be recommended by a geotechnical engineer and approved by the City Engineer.

- Where 25.0m of dedication is not available, ROW shall be provided to supplement available dedication.
- 6) Where sufficient ROW exists and topography allows, an offset 3.0m Multi—use path shall be installed and the paved shoulders may be reduced to 1.5m gravel shoulder.

	SALMONARM		25m R/W	Rural Arterial Roa	d Cross—Section
No.	Revision	Date	Date	Approved	SPECIFICATION
Α	APPROVED	10/11/16		Cabriel Be	DRAWING No.
В	SDSB 4293 REV'S - ISSUED FOR APPROVAL	01/06/23	01-06-2023	ming 5	RD_9
				City Engineer	TKD 3

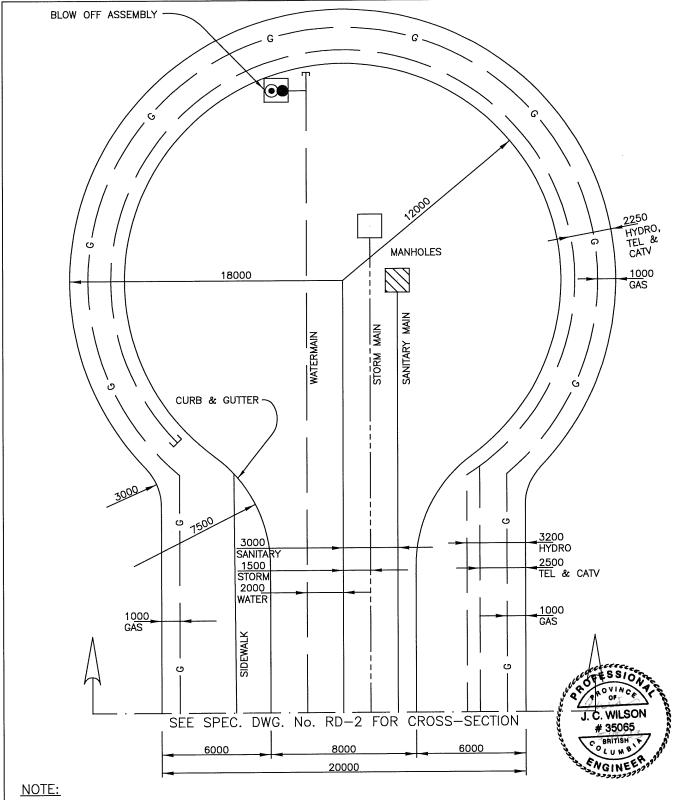


1) Fire Hydrant not to be located within Cul-de sac Right-of Way.

2) Refer to W-4 for Typical Blow off Assembly.

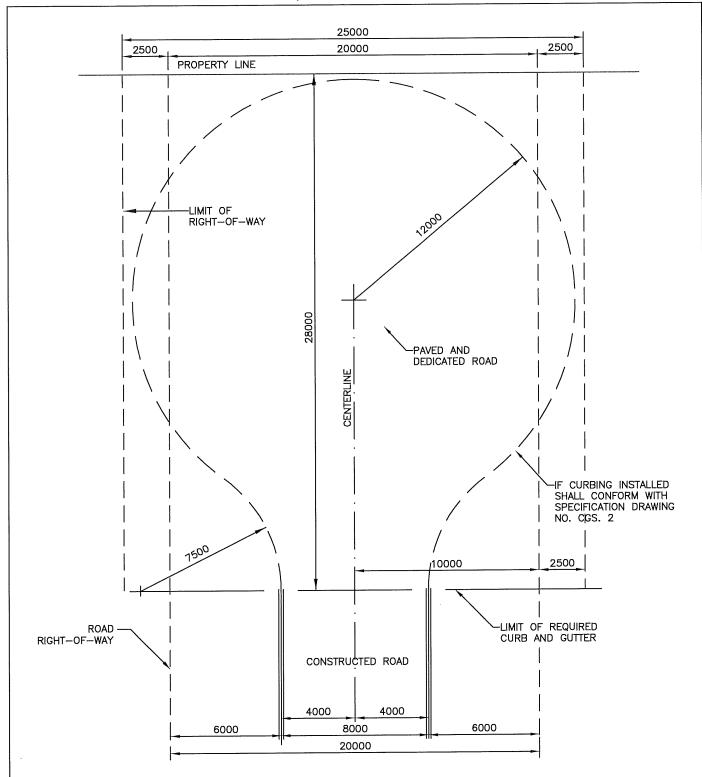
surface and edge of gravel shoulder to have 12.00m radius.

	SALMONARM		1	18m R/W Cul-	de-Sac
No.	Revision	Date	Date	Approved	SPECIFICATION
Α	ISSUED FOR APPROVAL	07/14/16		Calviel Bc	DRAWING No.
В	AMENDMENT BYLAW NO. 4293	01/06/23	01-06-23	1001.073	. RD-10
				City Engineer	



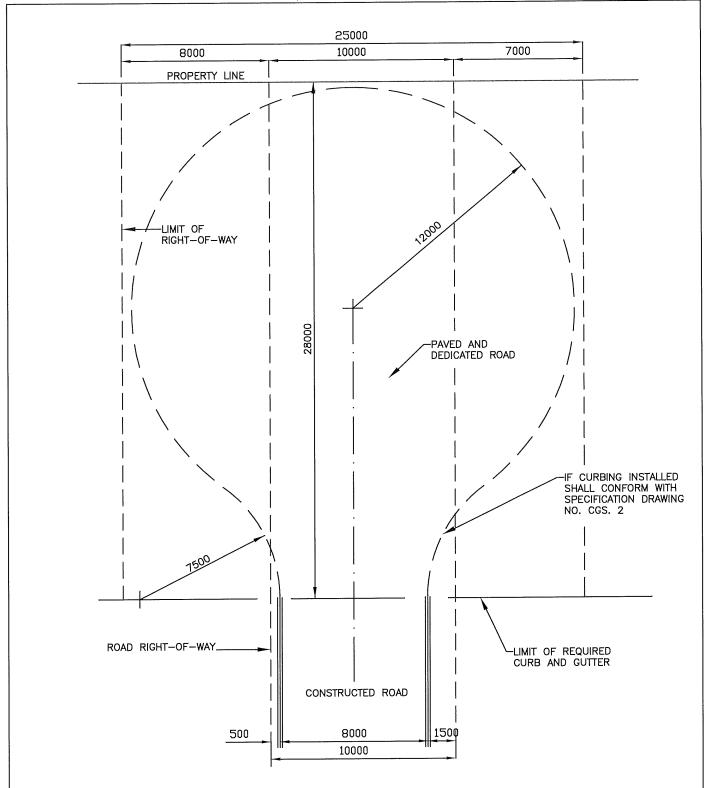
 Fire Hydrant not to be located within Cul—de sac Right—of Way.
 Refer to W-4 for Typical Blow off Assembly. 3) For Rural roads, cul—de—sac to have 10.75m radius for asphalt surface and edge of gravel shoulder to have 12.00m radius.

Sai	CITY OF SALMON	ARM		20m R/W Cul-de	e-Sac
No.	Revision	Date	Date	Approved	SPECIFICATION DRAWING No.
A	ISSUED FOR APPROVAL	07/14/16		11/1/	DRAWING No.
			10-11-2016	9WV -	RD-11
				/ City Engineer	IND II



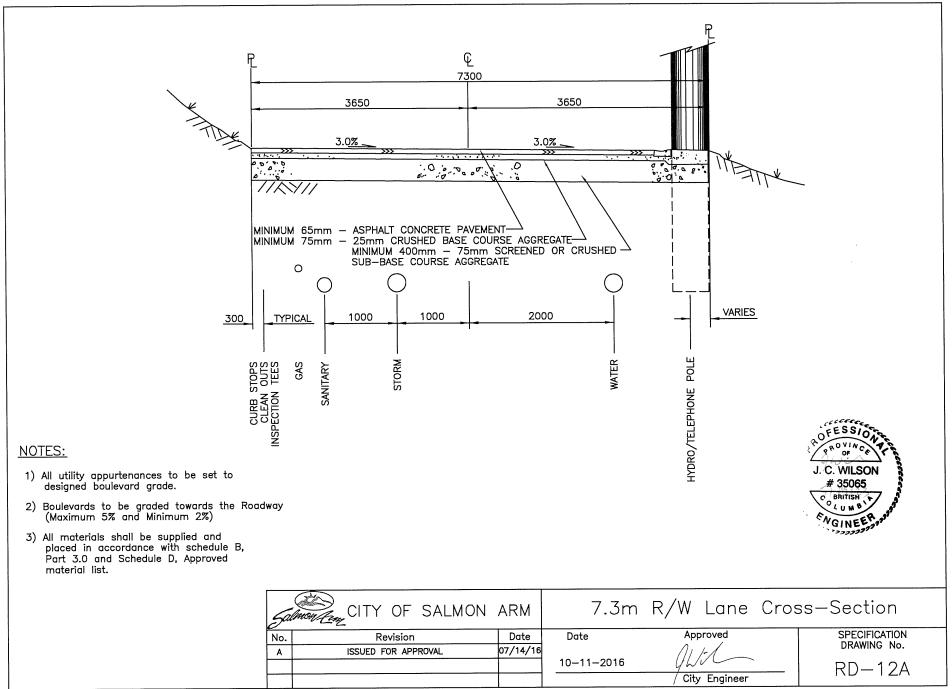
 For rural roads, cul—de—sac to have 10.75m radius for asphalt surface and edge of gravel shoulder to have 12.0m radius.

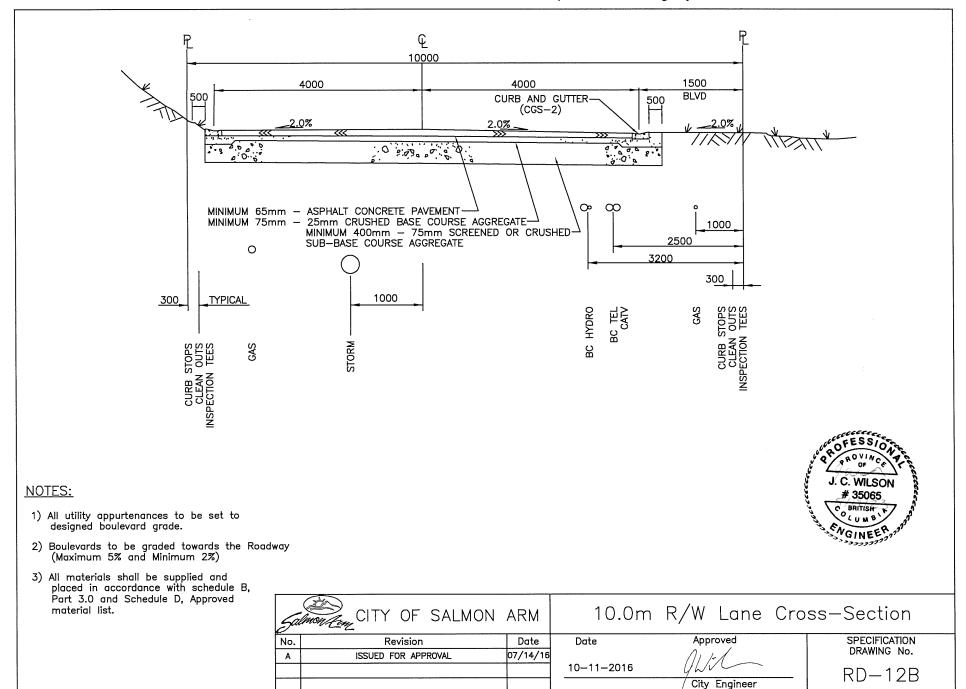
	SALMONARN	1	Т	emporary Cul-	-de-Sac
No.	Revision	Date	Date	Approved	SPECIFICATION DRAWING No.
Α	ISSUED FOR APPROVAL	01/06/23		Calviel Be	DRAWING NO.
			01-06-2023	111111111111111111111111111111111111111	- RD-11A
				City Engineer	TO TIM

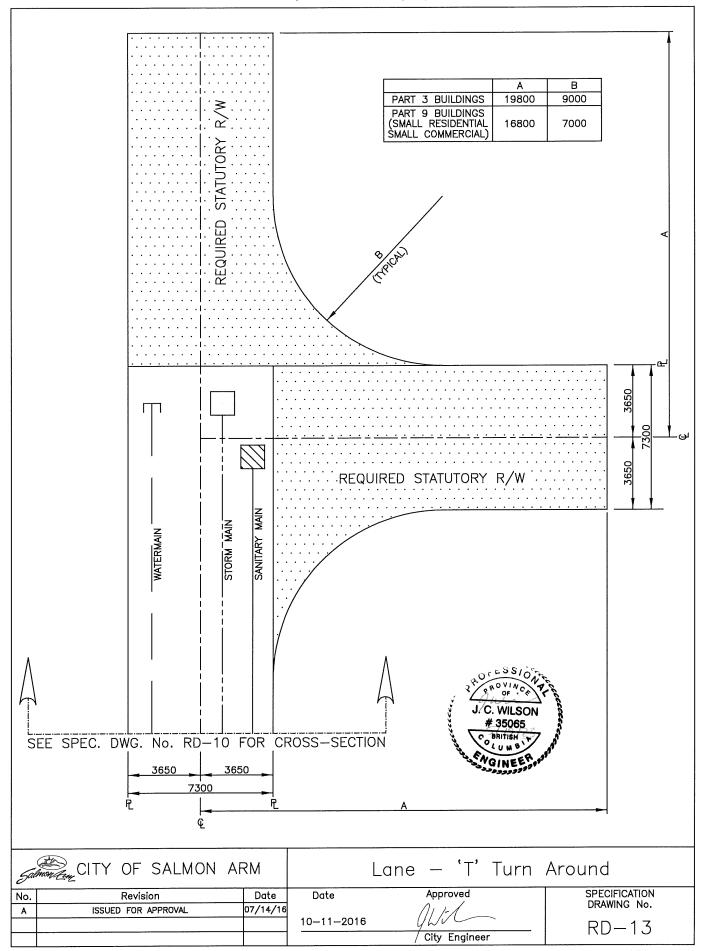


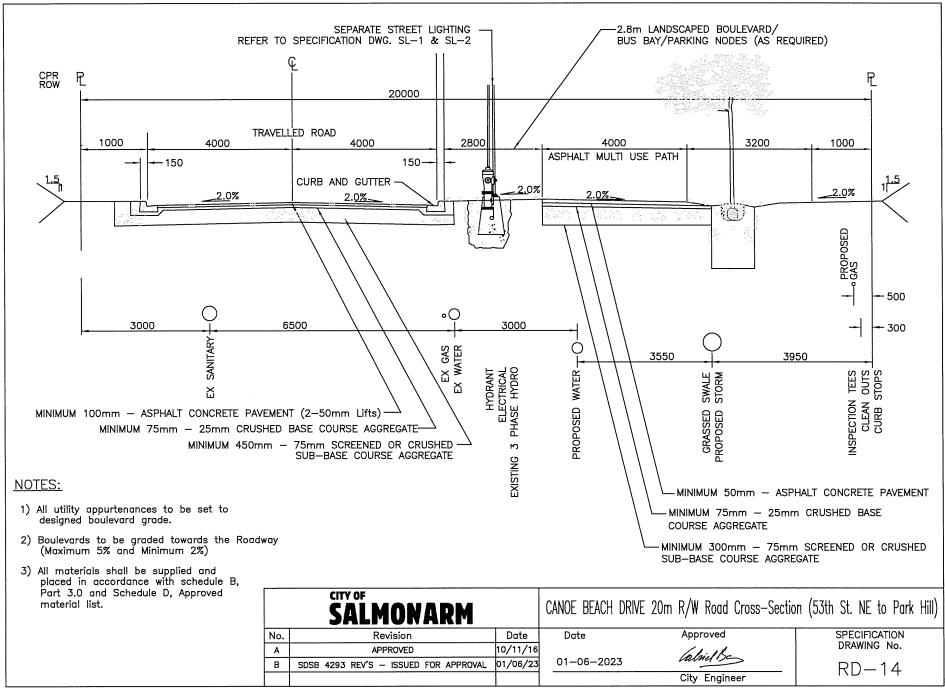
 For rural roads, cul—de—sac to have 10.75m radius for asphalt surface and edge of gravel shoulder to have 12.0m radius.

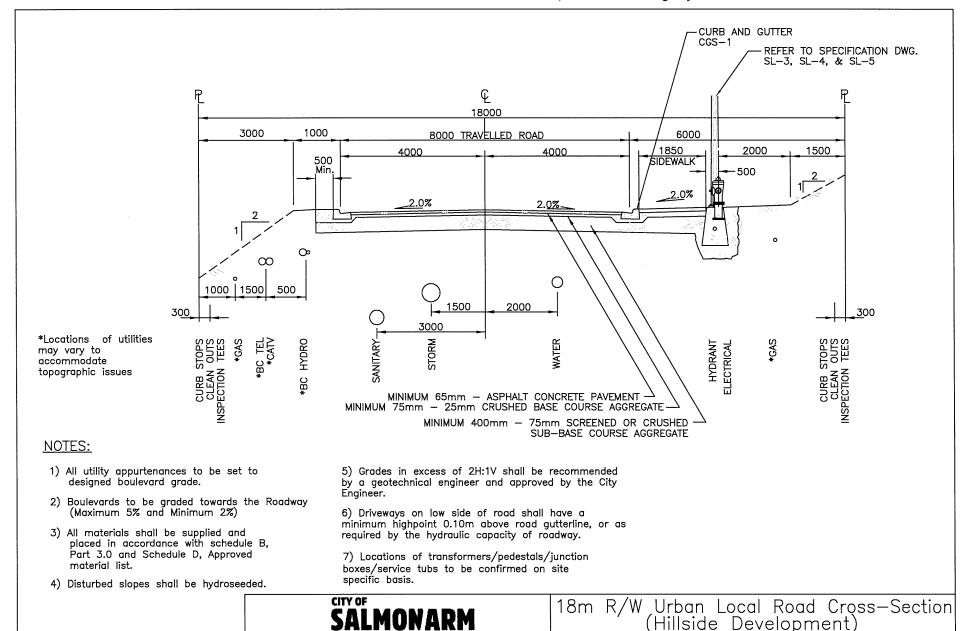
	SALMONARM		10.0m R/W	Lane — Tempor	ary Cul-de-Sac
No.	Revision	Date	Date	Approved	SPECIFICATION DRAWING No.
Α	ISSUED FOR APPROVAL	01/06/23		Cabriel Be	DRAWING NO.
			01-06-2023	- Carrier 19	RD-11B
				City Engineer	1.10











Date

10/11/16

Date

01-06-2023

Revision

APPROVED

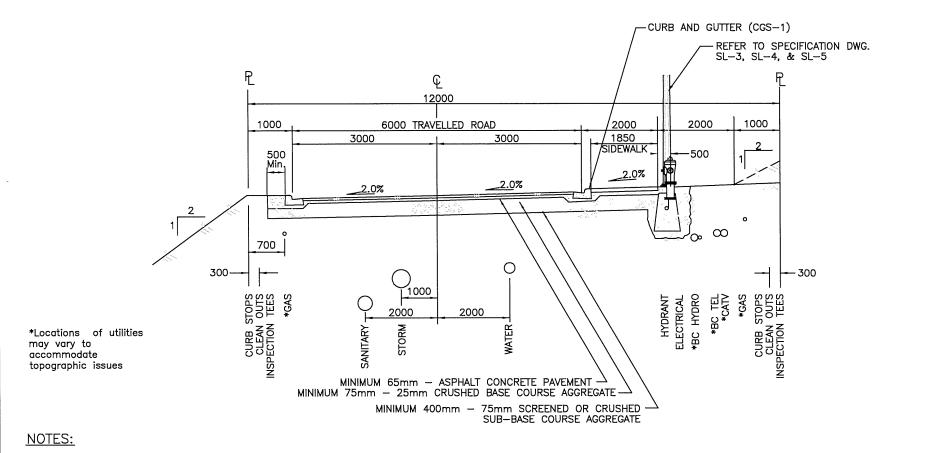
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No.

SPECIFICATION

DRAWING No.

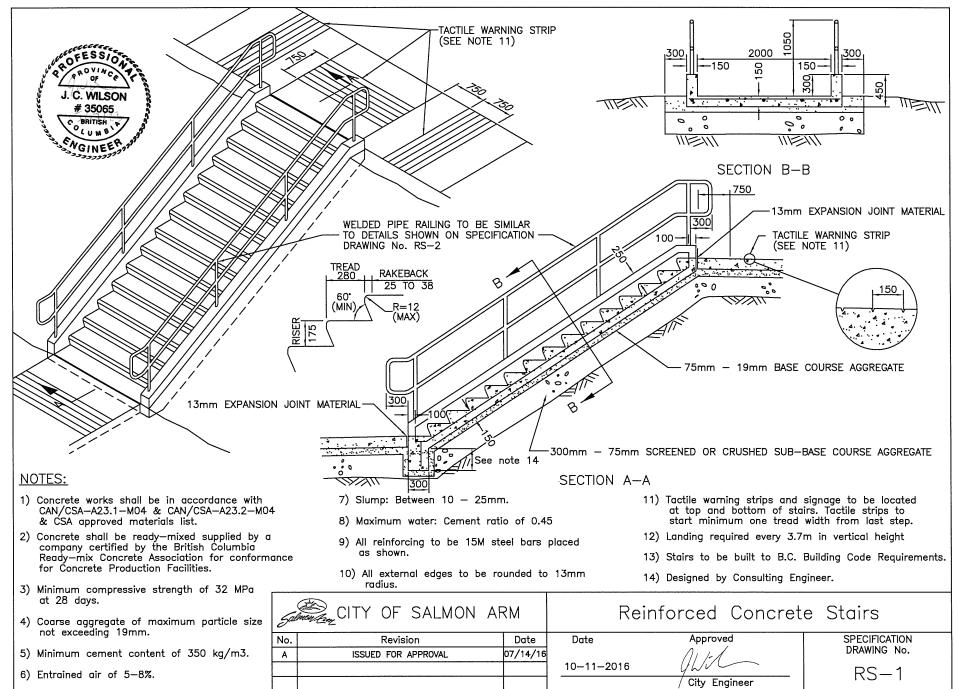
Approved

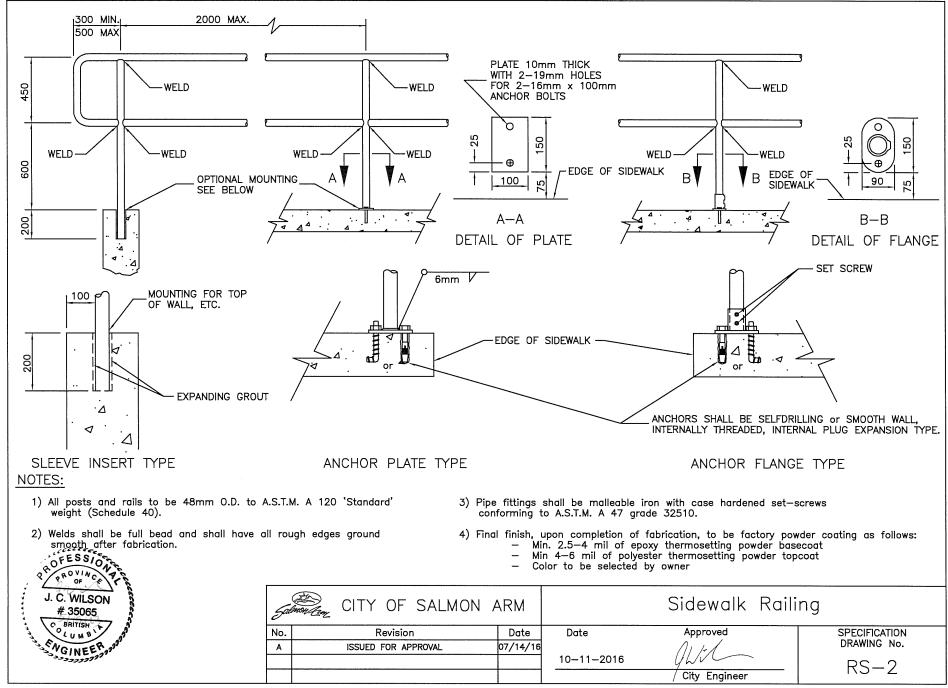


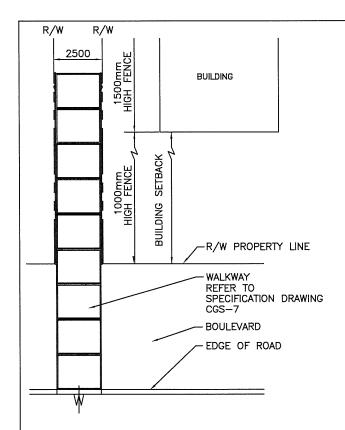
- 1) All utility appurtenances to be set to designed boulevard grade.
- 2) Boulevards to be graded towards the Roadway (Maximum 5% and Minimum 2%)
- All materials shall be supplied and placed in accordance with schedule B, Part 3.0 and Schedule D, Approved material list.
- 4) Disturbed slopes shall be hydroseeded.

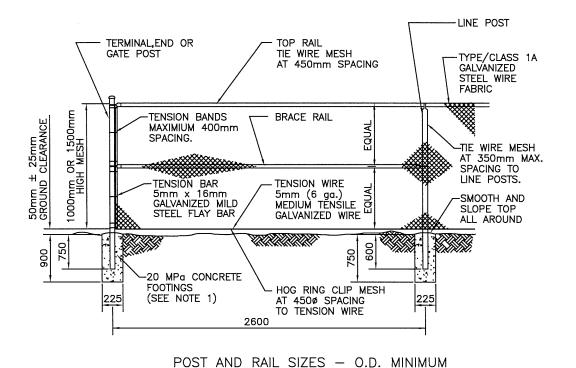
- 5) Grades in excess of 2H:1V shall be recommended by a geotechnical engineer and approved by the City Engineer.
- 6) Driveways on low side of road shall have a minimum highpoint 0.10m above road gutterline, or as required by the hydraulic capacity of roadway.
- 7) Locations of transformers/pedestals/junction boxes/service tubs to be confirmed on site specific basis.

d.		0,000.110 500.01				
		SALMONARM		12m R/W Ur	ban Single Lane Local (Hillside Developi	Road Cross—Section ment)
	No.	Revision	Date	Date	Approved	SPECIFICATION
	Α	APPROVED	10/11/16		Calviel Be	DRAWING No.
	В	SDSB 4293 REV'S - ISSUED FOR APPROVAL	01/06/23	01-06-2023	uning 195	RD-16
					City Engineer	









LINE DOCTO

NOTES:

- 1) All concrete footings to be 20 MPa at 28 days.
- 2) Final finish to be Double Hot Dipped Galvanizing, minimium 360 g/m2.
- Tension bar should go through every mesh loop and fastened to terminal and straining posts with tension bands as specified above



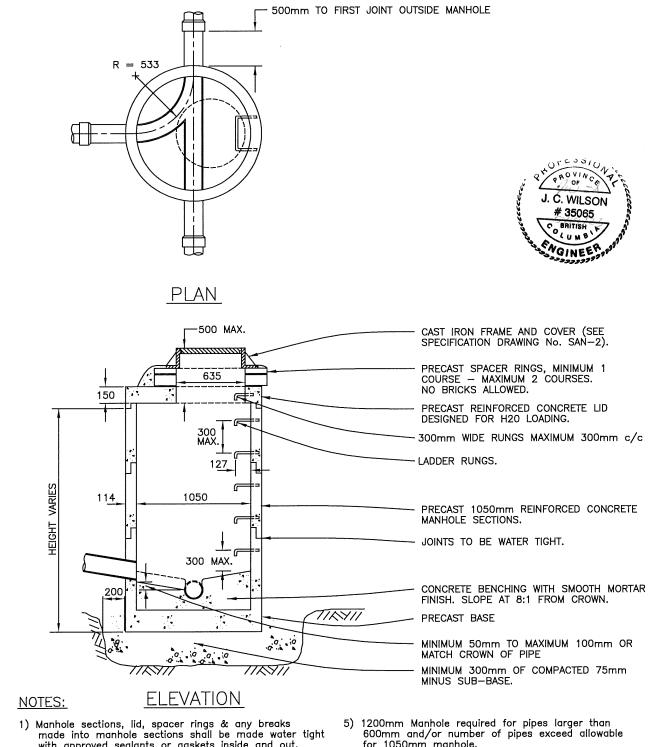
*NOTE: DIAGONAL PIPE BRACES MAY BE SPECIFIED WHERE SOIL CONDITIONS WARRANT, ESPECIALLY WHERE TOP TENSION WIRE IS CALLED FOR IN PLACE OF TOP RAIL.



5al	CITY OF SALMON A	.RM	Chain	Link Fence for	r Walkway
No.	Revision	Date	Date	Approved	SPECIFICATION
Α	ISSUED FOR APPROVAL	07/14/16		N1 1-1	DRAWING No.
			10-11-2016	yw C	RS_3
				/ City Engineer	1,5 0

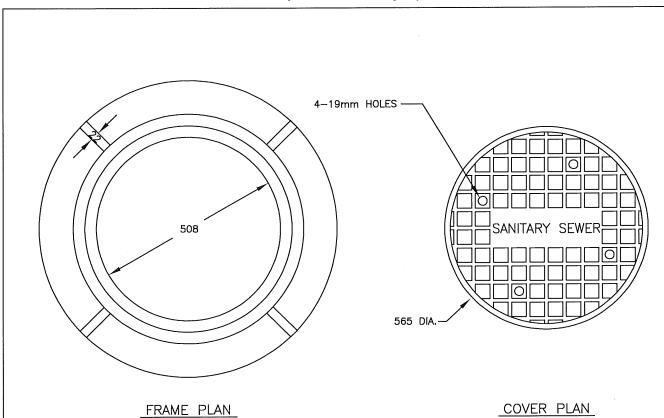
HORIZONTAL BRACE RAILS*

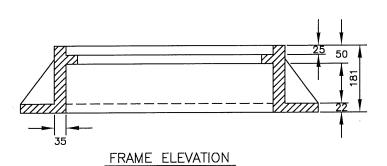
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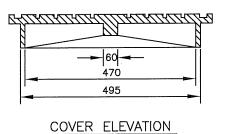


- with approved sealants or gaskets inside and out.
- 2) All joints to have smooth mortar finish.
- 3) Top of pipe running through manhole to be broken out.
- 4) Frame & cover to be set at 5mm below finished asphalt design grade and cross-fall.
- 6) No low profile cast iron frame allowed, unless approved by the City Engineer.

5ali	CITY OF SALMON	ARM	Typical	1050mm Sanit	ary Manhole
No.	Revision	Date	Date	Approved	SPECIFICATION
Α	ISSUED FOR APPROVAL	07/14/16		111-1 -	DRAWING No.
			10-11-2016	9WV -	SAN - 1
				/ City Engineer	5/ 114



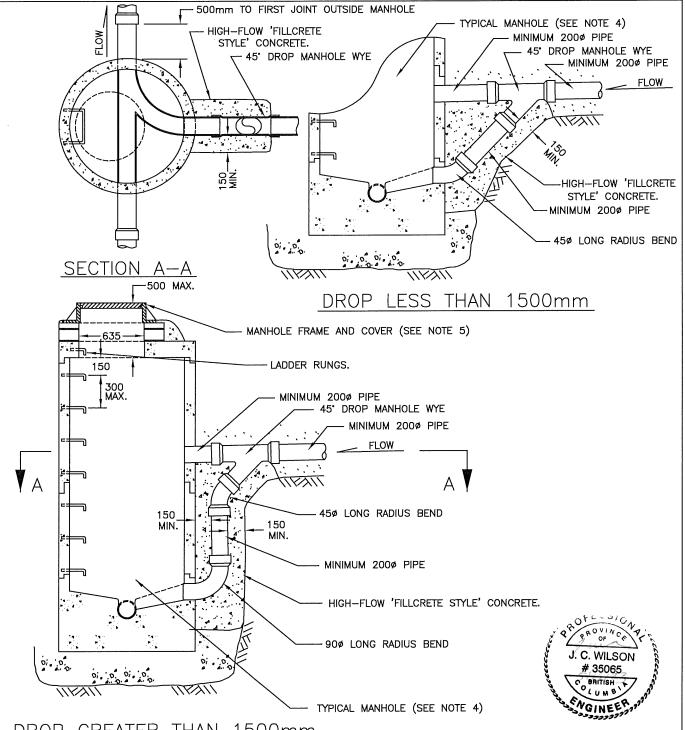




- 1) Frames and covers are to be designed to withstand H—20 loading.
- 2) Sanitary Sewer manhole covers shall be labelled: 'SANITARY SEWER'
- 3) No low profile cast iron frame allowed, unless approved by the City Engineer.
- 4) Bolt-down covers shall be used when directed by City Engineer.



	CITY OF SALMON A	RM	H-20	Manhole Frame	e & Cover
No.	Revision ISSUED FOR APPROVAL	Date 07/14/16	Date	Approved	SPECIFICATION DRAWING No.
	1330ED TOR AFFROVAL	0,, 14, 10	10-11-2016	YWI	SAN-2
				/ City Engineer	

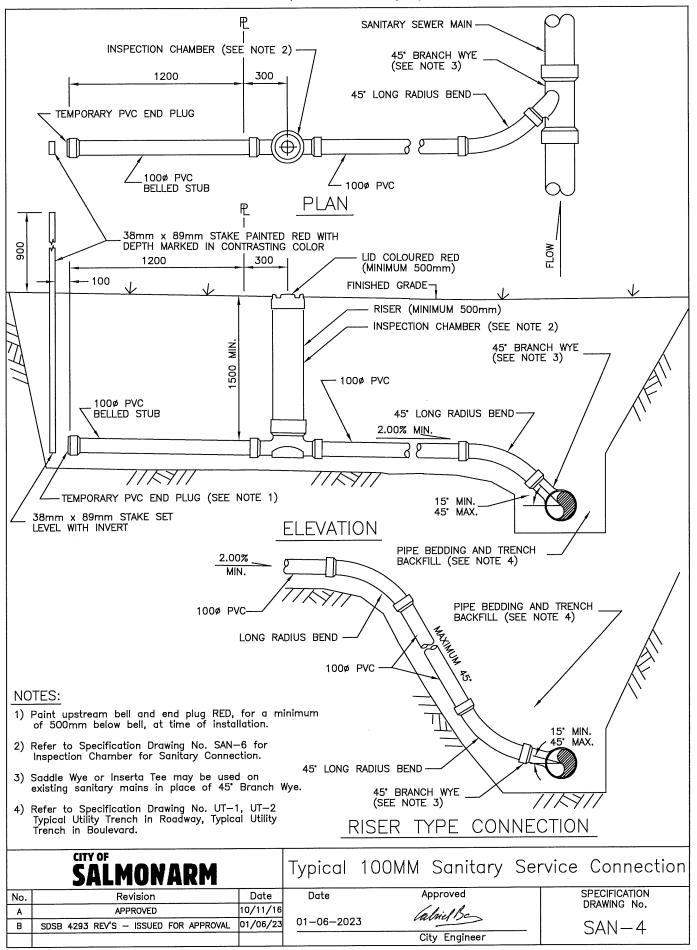


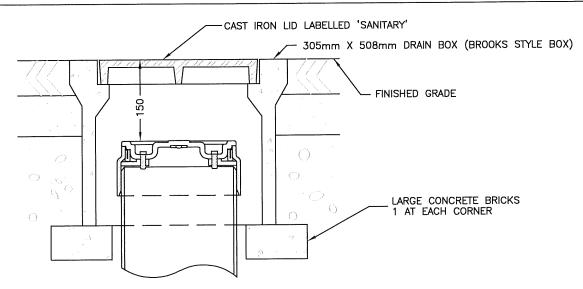
GREATER THAN 1500mm

- 1) Inside ramps shall be utilized where the elevation of the invert is the same or below the crown of the through pipe (Refer to Specification Drawing San-1).
- 2) All joints to have smooth mortar finish.

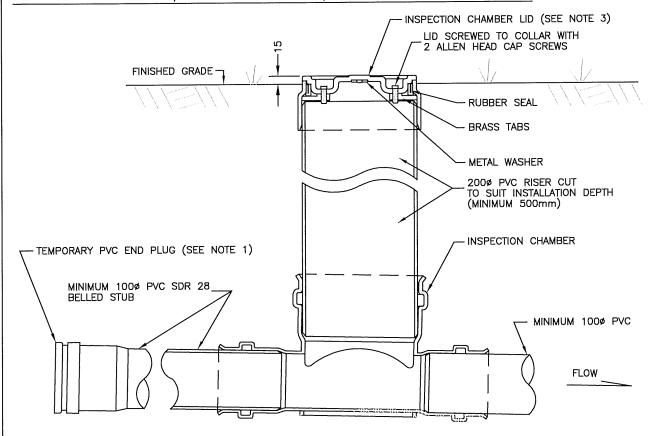
- 3) Encasement Concrete strength to be high-flow 'fillcrete style' concrete.
- Refer to Specification Drawing No. San—1, Typical 1050mm Sanitary Manhole.
- 5) Refer to Specification Drawing No. San-2, H-20 Manhole Frame & Cover.
- 6) Inside drop to be approved by the City Engineer.

Salm	CITY OF SALMON A	RM	Typical	1050mm Sanitary	Drop Manhole
No.	Revision	Date	Date	Approved	SPECIFICATION DRAWING No.
A	ISSUED FOR APPROVAL	07/14/16	10-11-2016	JUI	SAN-3
				/ City Engineer	5, 11 0





INSTALLATION w/ DRAIN BOX (BROOKS STYLE BOX)



NOTES:

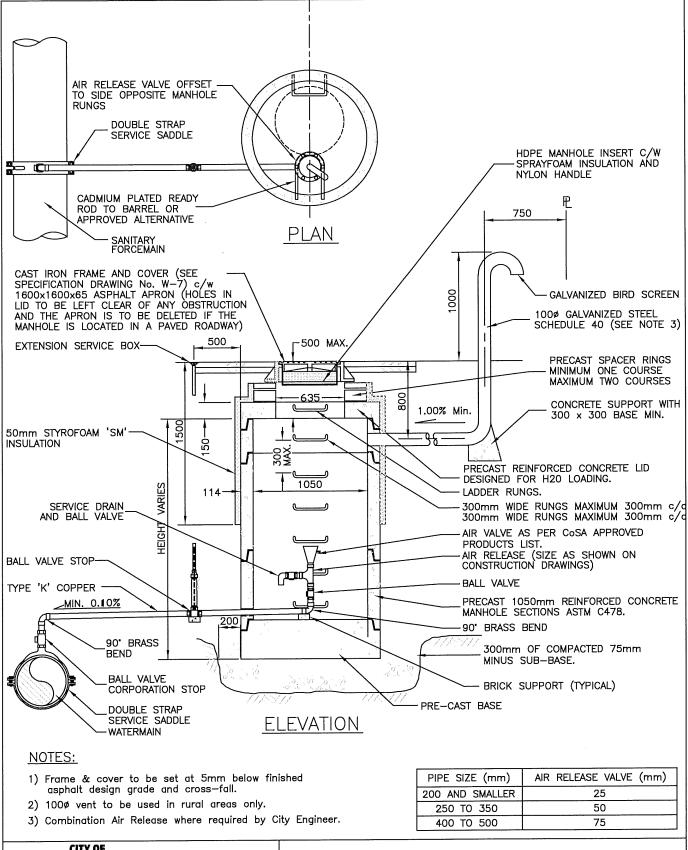
- 1) Paint upstream bell and end plug RED, for a minimum of 500mm below bell, at time of installation.
- 3) Inspection chamber lid to be coloured red.
- 2) Refer to Specification Drawing No. SAN-4 Typical 100mm Sanitary Connection.

CITY OF		
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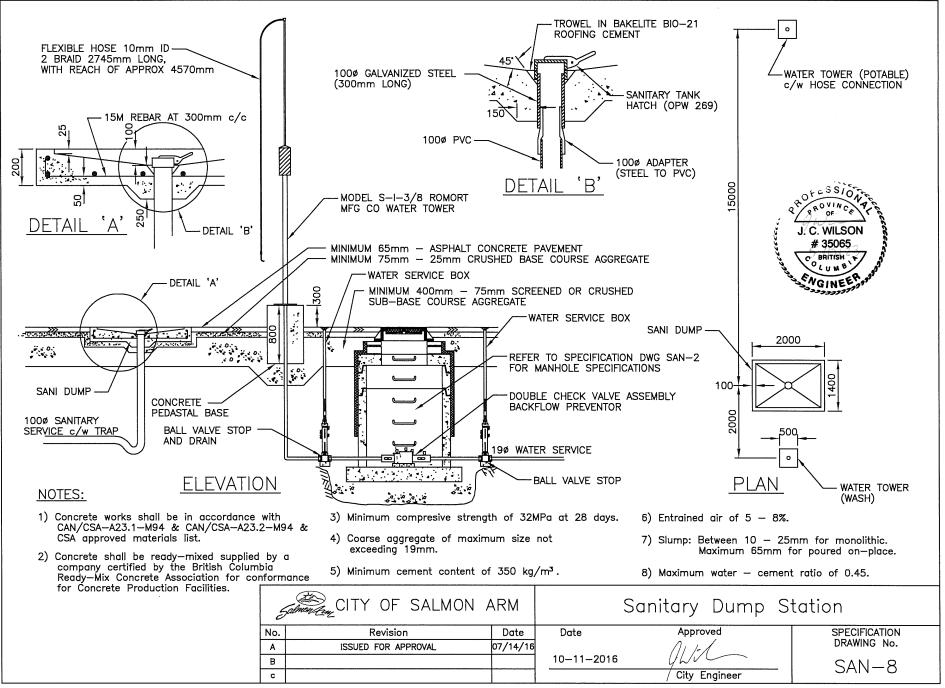
Inspection Chamber for Sanitary Connection

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No.	Revision	Date	Date	Approved	SPECIFICATION DRAWING No.
Α	APPROVED	10/11/16		Cabriel Be	DRAWING No.
В	SDSB 4293 REV'S - ISSUED FOR APPROVAL	01/06/23	01-06/2023	1001.04.75	SAN-6
				City Engineer	

Adopted by Council February XX, 2023



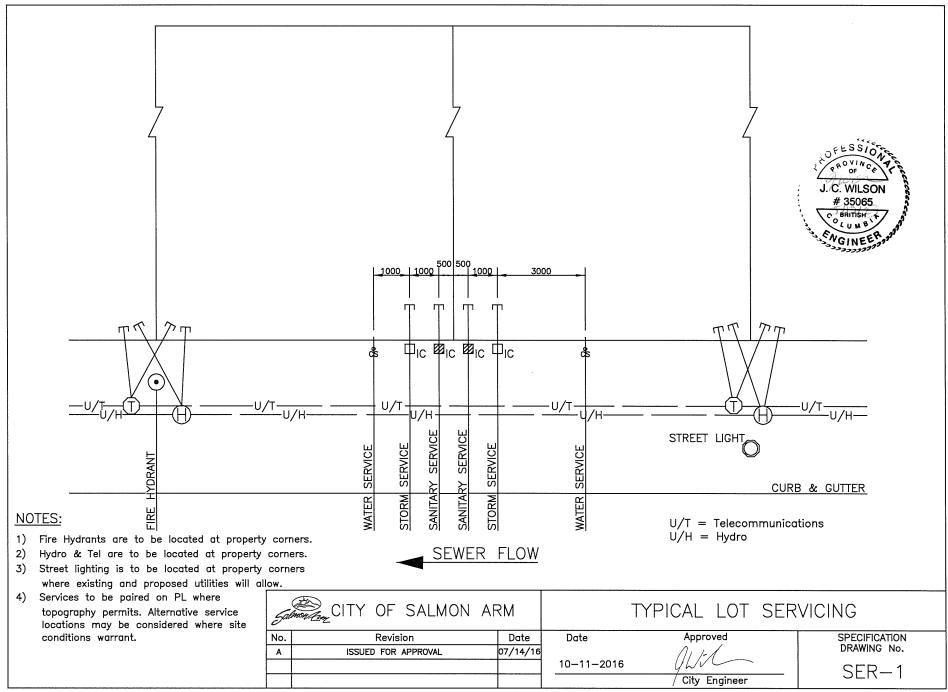
	SALMONARM		Air	Release Valve —	Forcemain
No.	Revision	Date	Date	Approved	SPECIFICATION
Α	APPROVED	10/11/16		Calriel Be	DRAWING No.
8	SDSB 4293 REV'S - ISSUED FOR APPROVAL	01/06/23	01-06-2023		SAN-7
				City Engineer	

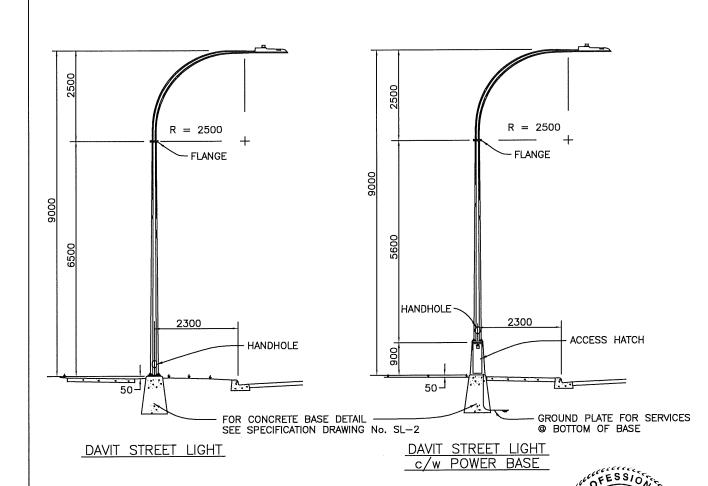


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		,1	(Peak po	pulation flo	ow where; q= ow: l=0.1L/s,	225 L/day	/person;	P=popul	ation in the	ousands)				PROJ					
)*A) _{tot} =Q _p +	Q_i		(Total pe	ak flow as	the sum of	peak popu	ilation flo	w and p	eak extrane	eous flow)					_0,				
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	·	SSENGI	MEER	J [*]	A	ISSUED	FOR APPR	OVAL	07/14		1-2016		11/1	1	_			RAWING	
		Ceeces	222222							- 10-1			City	Engineer	-	-	S	SAN-	.9

2.4. (0.0)	UTILITY RECO)RD	
SUBDIVISION/ADDRESS	LEGAL DESCRIPTION	LOCATION PLAN	
SUBDIVISION:	LOT:		
ADDRESS:	PLAN: SEC:	STREET NAME	
WATER CONNECTION	STORM CONNECTION	1144.00	
DATE INSTALLED:	DATE INSTALLED:		
INSTALLED BY:	INSTALLED BY:	NAM NAM	
SIZE: MATERIAL:	SIZE: MATERIAL:	2622 26224	
INV:	* INV. ELEV. AT P/L:	2.24m	
LOCATION:	LOCATION:	SANITARY E SERVICE SER	
	*GEODETIC ELEVATION		
SANITARY CONNECTION	NOTES	EASEMENT WATER	
DATE INSTALLED:		M SERVICE M	
INSTALLED BY:		STORM ET O SERVICE	
SIZE: MATERIAL:		E (9, 2, 0, 4)	
*INV. ELEV. AT P/L:		9	
LOCATION:		*MBE MINIMUM BASEMENT ELEVATION	
		LOT GRADE (GEODETIC)	000
*GEODETIC ELEVATION	CONSULTANT NAME	DIRECTION OF SURFACE RUNOFF SCOLE: 1:1 NOTE: THE INFORMATION CONTAINED HEREIN IS FOR INTERNAL UMAND IS NOT TO BE RELIED UPON UNLESS CONFIRMED BY INSPECTION AND/OR INVESTIGATION.	
OF A CR. Prag	CITY OF SALMON ARM	Utility Service C	ard
No.	Revision Date Date Date Revision Date Dat		SPECIFICATION DRAWING No.
JEEK 2222		10-11-2016	SC-1



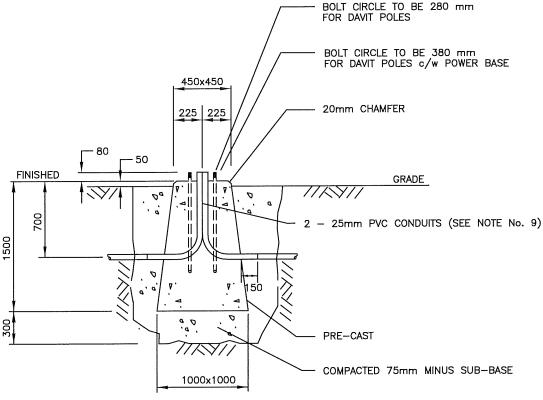


- 1) Confirm bolt circle patterns with supplier.
- 2) Provide grounding to Canadian Electrical Code.
- 3) Light specifications shall conform to City of Salmon Arm approved materials list.
- 4) Any changes to the specifications must be approved by the City Engineer.
- 5) Access hatch to be located opposite to adjacent traffic flow.

5 almi	CITY OF SALMON A	RM	9.00m Davit Street Lights					
No.	Revision	Date 07/14/16	Date	Approved	SPECIFICATION DRAWING No.			
	ISSUED FOR APPROVAL	0//14/16	10-11-2016		$\begin{bmatrix} SI-1 \end{bmatrix}$			
				/ City Engineer				

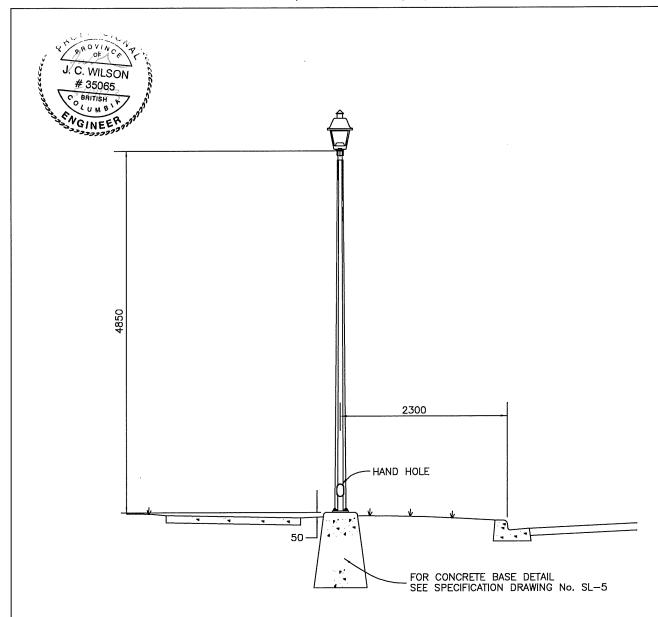
C. WILSON





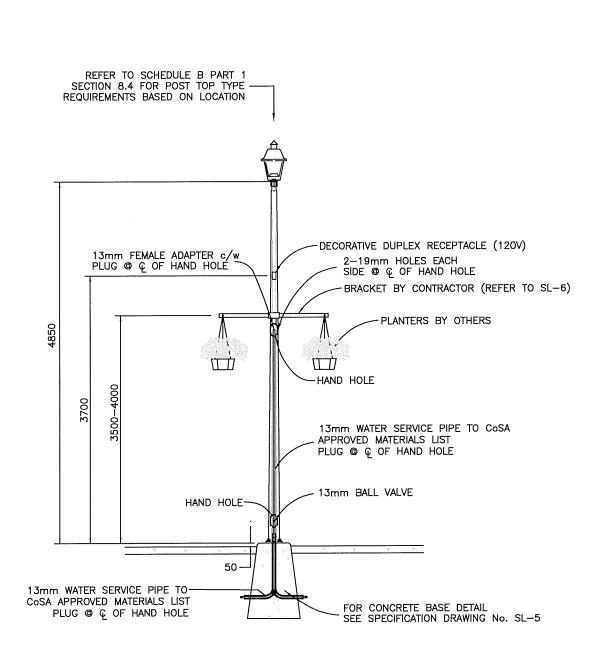
- 1) At last service base of duct run, install elbow and cap for future extension. (No exceptions.)
- 2) Provide additional 50mm duct to service base pole for BC Hydro service.
- 3) All hardware shall be hot dipped galvanized.
- 4) Apply Lubriplate or another suitable grease to exposed portion of anchor bolts and nuts.
- 5) Concrete shall have a compressive strength of 30 MPa prior to pole installation.
- 6) A 'V' groove drain trough to start at zero depth in centre of pedestal to a 10mm depth and width at the outside edge.
- 7) Confirm bolt circle pattern with supplier.
- 8) Anchor bolts to be: 4 25mm x 920mm hot dipped galvanized.
- 9) A 3rd 25mm pvc conduit is needed for the ground wire on the power base.

5alk	CITY OF SALMON A	RM	9.00m	Davit Concrete	e Pedestal
No.	Revision	Date	Date	Approved	SPECIFICATION
Α	ISSUED FOR APPROVAL	07/14/16		111-1	DRAWING No.
			10-11-2016	9200	SI-2
				/ City Engineer	



- 1) Confirm bolt circle pattern with supplier.
- 2) Provide grounding to Canadian Electrical Code.
- 3) Any changes to the specifications must be approved by the City Engineer.
- 4) No House Side Shield for Town Centre Development Area.
- 5) Minimum Conductor Size #10.
- 6) Light specifications shall conform to City of Salmon Arm approved materials list.

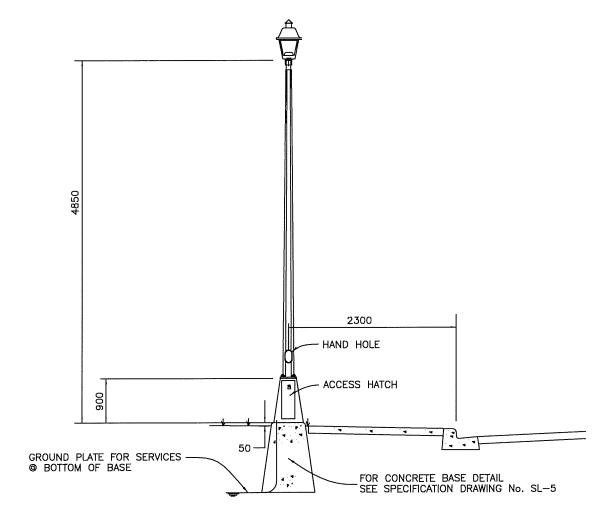
Sall	CITY OF SALMON A	.RM		Post Top Street	Light
No.	Revision	Date	Date	Approved	SPECIFICATION DRAWING No.
Α	ISSUED FOR APPROVAL	07/14/16		111-1	DRAWING NO.
			10-11-2016	ywv -	SI-3
				/ City Engineer	<u> </u>



- 1) Confirm bolt circle pattern with supplier.
- 2) Provide grounding to Canadian Electrical Code.
- 3) Light specifications shall conform to City of Salmon Arm approved materials list.
- 4) Any changes to the specifications must be approved by the City Engineer.
- 5) Minimum Conductor Size #10.

	SALMONARM		with	Post Top Street Irrigation & Elect	Light trical Outlet
No.	Revision	Date	Date	Approved	SPECIFICATION
Α	APPROVED	10/11/16		Calriel Be	DRAWING No.
В	SDSB 4293 REV'S - ISSUED FOR APPROVAL	01/06/23	01-06-2023	000101.52	S1 - 3 - 1
				City Engineer	

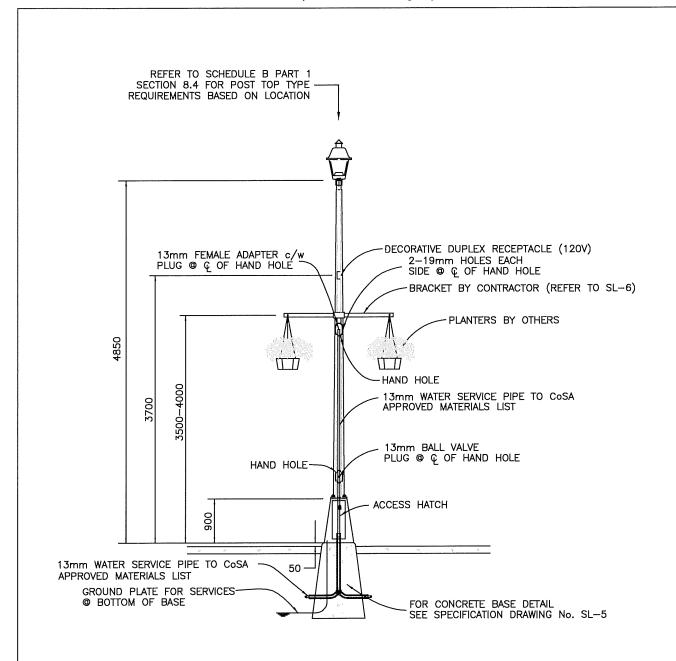




- 1) Confirm bolt circle pattern with supplier.
- 2) Provide grounding to Canadian Electrical Code.
- 3) Any changes to the specifications must be approved by the City Engineer.
- 5) Lighting and Tree Receptacles to be on seperate circuits.
- 6) Minimum Conductor Size #10.
- 7) Access hatch to be located opposite to adjacent traffic flow.

4)	Salmon	Arm	approved	materials	list.	City	OI

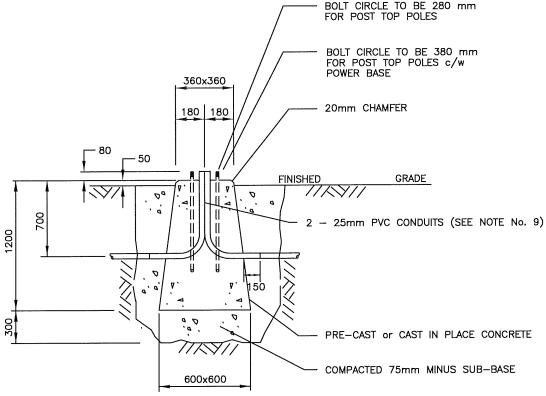
Sali	CITY OF SALMON	ARM	Post Top	Street Light,	/Power Base
No.	Revision	Date	Date	Approved	SPECIFICATION
Α	ISSUED FOR APPROVAL	07/14/16		111-1	DRAWING No.
			10-11-2016	ywv C	$\begin{vmatrix} & & & & & & & & & & & & & & & & & & &$
				/ City Engineer	



- 1) Confirm bolt circle pattern with supplier.
- 2) Provide grounding to Canadian Electrical Code.
- 3) Any changes to the specifications must be approved by the City Engineer.
- 4) Lighting and Tree Receptacles to be on seperate circuits.
- 5) Minimum Conductor Size #10.
- 6) Light specifications shall conform to City of Salmon Arm approved materials list.
- 7) Access hatch to be located opposite to adjacent traffic flow.

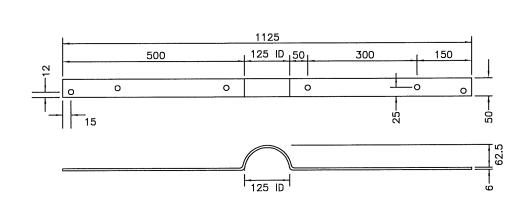
	SALMONARM		Post Idwith	op Street Light Irrigation & Elec	T/Power Base trical Outlet
No.	Revision	Date	Date	Approved	SPECIFICATION
Α	APPROVED	10/11/16		Calviel Be	DRAWING No.
В	SDSB 4293 REV'S - ISSUED FOR APPROVAL	01/06/23	01-06-2023	04019	SI -4-I
				City Engineer	



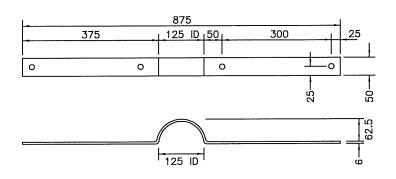


- At last service base of duct run, install elbow and cap for future extension. (No exceptions.)
- 2) Provide additional 50mm duct to service base pole for BC Hydro service.
- 3) All hardware shall be hot dipped galvanized.
- 4) Apply Lubriplate or another suitable grease to exposed portion of anchor bolts and nuts.
- 5) Concrete shall have a comprehensive strength of 30 MPa prior to pole installation.
- A 'V' groove drain trough to start at zero depth in centre of pedestal to a 10mm depth and width at the outside edge.
- 7) Confirm bolt circle pattern with supplier.
- 8) Anchor bolts to be: 4 25mm x 920mm hot dipped galvanized.
- A 3rd 25mm pvc conduit is needed for the ground wire on the power base.

Sali	CITY OF SALMON	ARM	5.00m	Post Top Conc	rete Pedestal
No.	Revision	Date	Date	Approved	SPECIFICATION
A	ISSUED FOR APPROVAL	07/14/16		111-1 -	DRAWING No.
			10-11-2016	ywv -	SI-5
				/ City Engineer	



FRONT SIDE



BACK SIDE

NOTES:

REFER TO DRAWING SL-3-I AND SL-4-I FOR BRACKET LOCATION.

SPECIFICATIONS:

BRACKET FINISH:

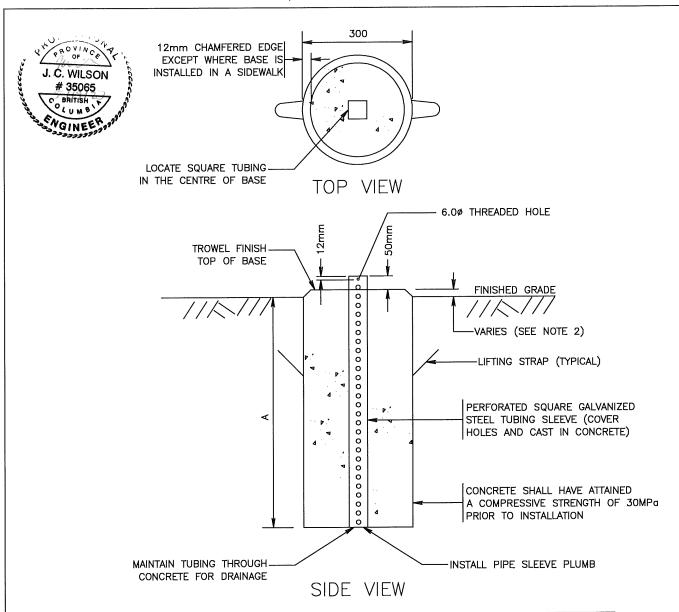
FACTORY POWDER COATING AS FOLLOWS:

 $^{\rm -}$ MIN. 2.5–4 mil of epoxy thermosetting powder basecoat $^{\rm -}$ MIN. 4–6 mil of black polyester thermosetting powder topcoat

BOLTS:

13 mm x 25 mm HOT DIPPED GALVANIZED c/w LOCK WASHER AND NUT

	SALMONARM		Brad	cket for Hanging	g Baskets
No.	Revision	Date	Date	Approved	SPECIFICATION
Α	APPROVED	10/11/16		Cabriel Be	DRAWING No.
В	SDSB 4293 REV'S - ISSUED FOR APPROVAL	01/06/23	01-06-2023	varia : 52 3	SI-6
				City Engineer	

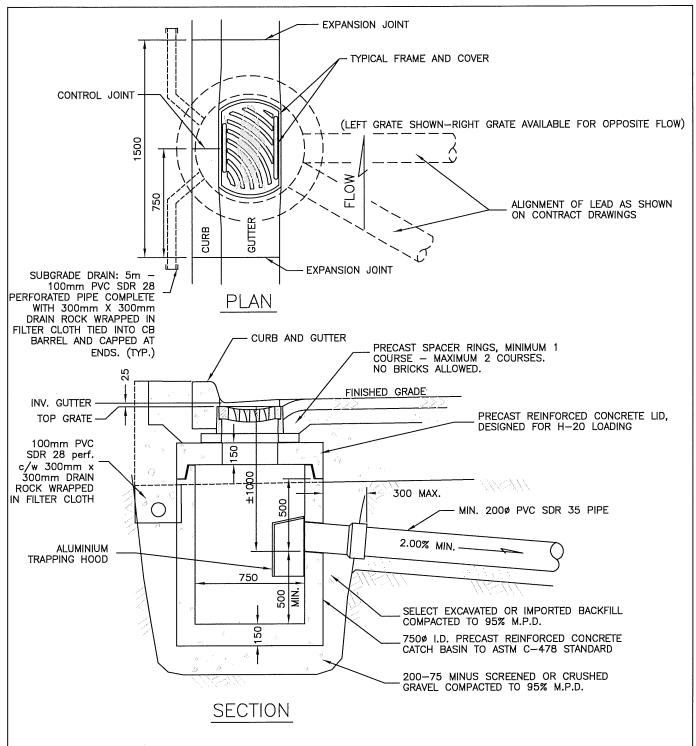


BASE TYPE	APPLICATION	APPROXIMATE MASS	VOLUME OF CONCRETE	Α
1	SINGLE POST SIGNS IN PAVED ISLANDS OR CONCRETE SIDEWALKS (SIGNS <= 0.36m ²)	100kg	0.04m ³	600
2	SINGLE OR TWO POST SIGNS IN GRAVEL SHOULDER (SIGNS > 0.36m ²)	147kg	0.06m ³	800

- 1) Parking signs to be placed at a 45° angle to the Curb & Gutter.
- & Gutter. 3) Sign post to be 58mm 12 guage steel.

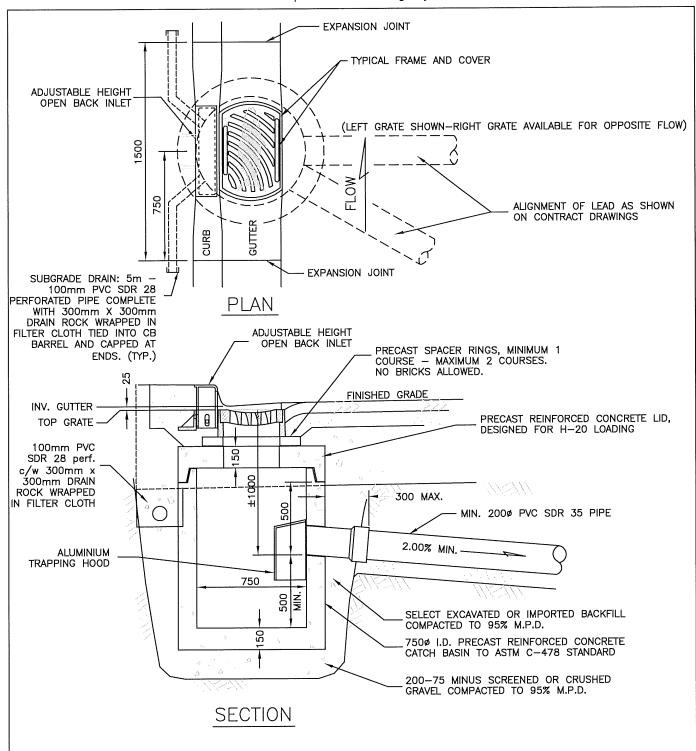
 Sleeve to be 65mm 10 guage steel.
- 2) Base shall be installed 25mm above finished grade except where installed in sidewalk it shall be flush with the top of sidewalk with no chamfered edge.

Salmon	CITY OF SALMON	ARM	-	Typical Sign Post	t Base
No.	Revision	Date	Date	Approved	SPECIFICATION DRAWING No.
Α	ISSUED FOR APPROVAL	07/14/16	10-11-2016	11/2/	DRAWING NO.
		-	10-11-2010	/ City Engineer	SP-1



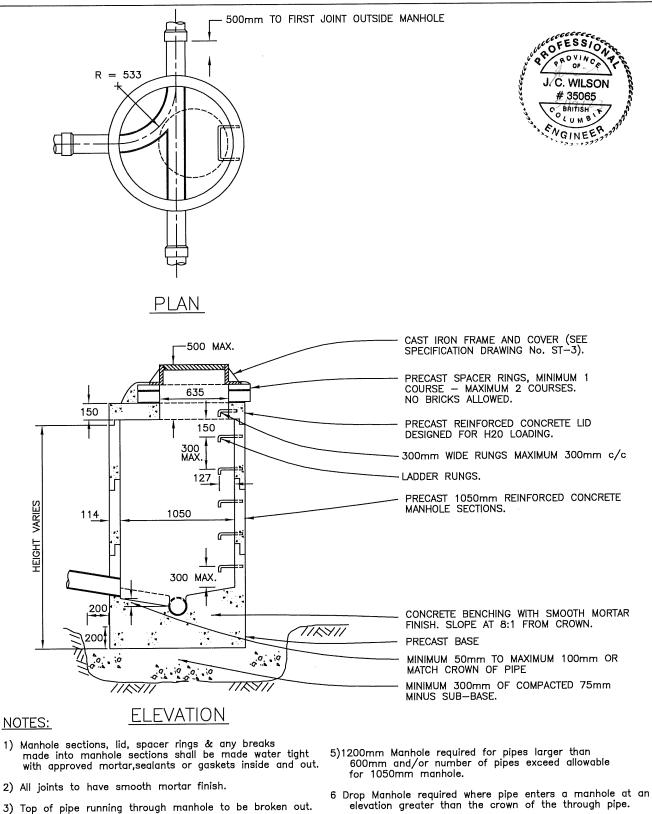
- Catch basin lid, precast spacer rings & any breaks made into catch basin sections shall be made water tight with approved mortar, sealants or gaskets inside and out.
- 2) All joints and spacer rings to have smooth mortar finish.
- 3) Outlet entry to be precored by supplier.
- Frame & grate to be set at 25mm below finished gutter invert design grade.
- 5) Where CB falls at low point, install Subgrade Drain as detailed.

	SALMONARM		Catch	Basin — Under	5% Grade
No.	Revision	Date	Date	Approved	SPECIFICATION
Α	ISSUED FOR APPROVAL	01/06/23		Cabriel Be	DRAWING No.
			01-06/23	uway 15	ST-1A
				City Engineer	5



- Catch basin lid, precast spacer rings & any breaks made into catch basin sections shall be made water tight with approved mortar, sealants or gaskets inside and out.
- 2) All joints and spacer rings to have smooth mortar finish.
- 3) Outlet entry to be precored by supplier.
- 4) Frame & grate to be set at 25mm below finished gutter invert design grade.
- 5) Where CB falls at low point, install Subgrade Drain as detailed.

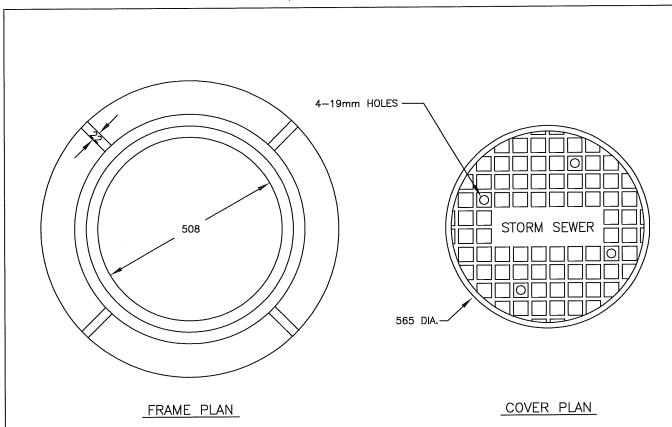
	SALMONARM		Catch	Basin — Over	5% Grade
No.	Revision	Date	Date	Approved	SPECIFICATION
Α	ISSUED FOR APPROVAL	01/06/23		Calviel Be	DRAWING No.
			01-26-2023	000000	ST-1B
				City Engineer	01 10

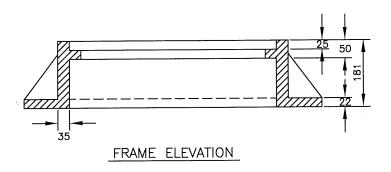


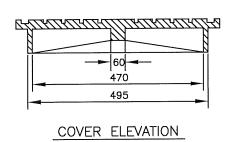
- with approved mortar, sealants or gaskets inside and out.

- 4) Frame & cover to be set at 5mm below finished asphalt design grade and cross-fall.
- 7) No low profile cast iron frame allowed, unless approved by the City Engineer.

5ali	CITY OF SALMON	ARM	Typical	1050mm Stor	m Manhole
No.	Revision	Date	Date	Approved	SPECIFICATION DRAWING No.
Α	ISSUED FOR APPROVAL	07/14/16		N11-1 -	DRAWING No.
			10-11-2016	ywv -	ST-2
			-	/ City Engineer	01 2



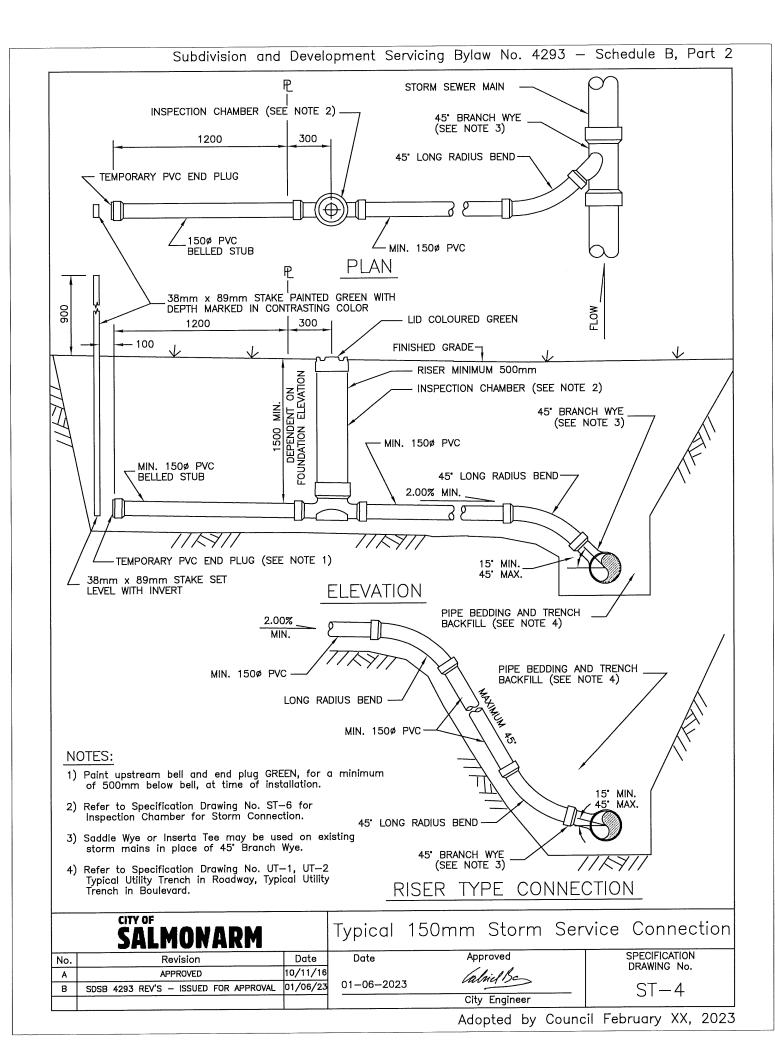




- 1) Frames and covers are to be designed to withstand H-20 loading.
- 2) Storm Sewer manhole covers shall be labelled: "STORM SEWER"
- 3) No low profile cast iron frame allowed, unless approved by the City Engineer.



Salmon	CITY OF SALMON	AKM	H=20 Mu	illole ridille d	c cover (Storin)
No.	Revision	Date	Date	Approved	SPECIFICATION DRAWING No.
Α	ISSUED FOR APPROVAL	07/14/16	10-11-2016	11/1/	DICAMING NO.
		_	10-11-2010	City Engineer	. SI-3



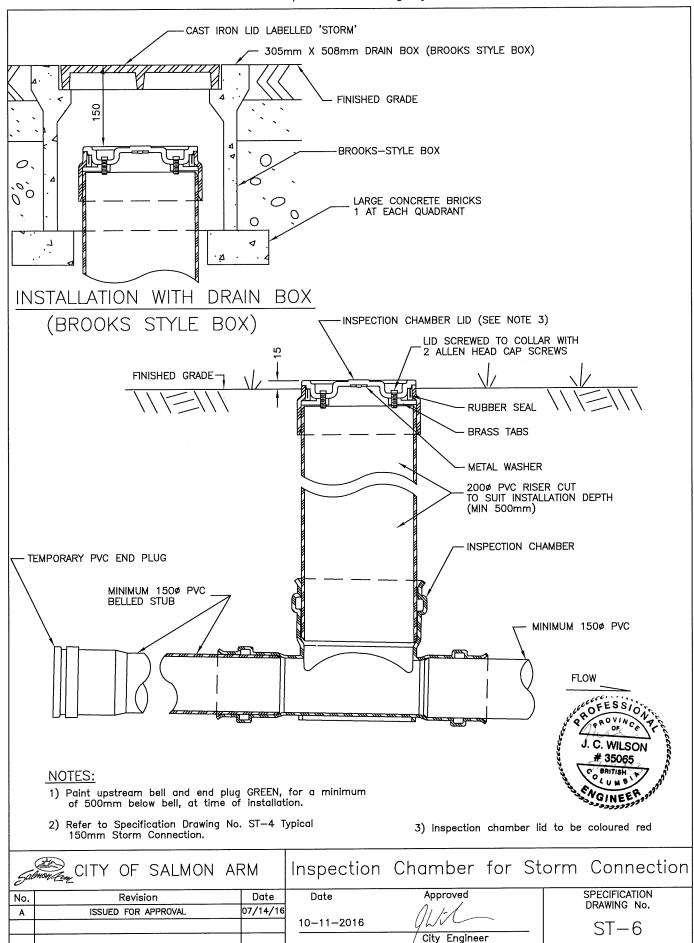
SIZE OF SERVICE

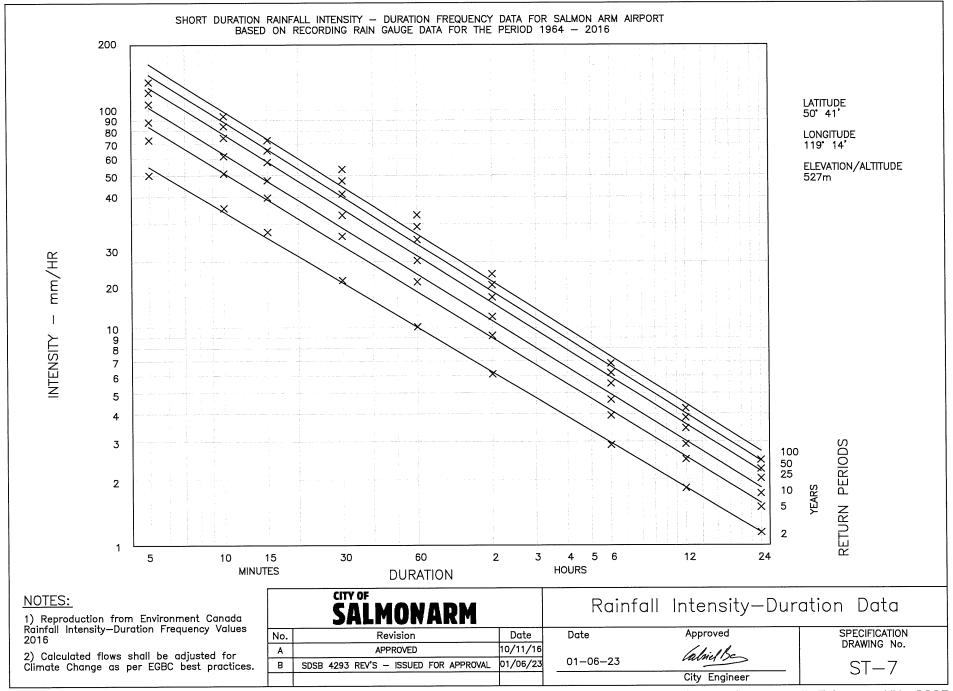
8" 10" 12" 15" 200mm 250mm 300mm 375mm 8" 200mm 10" 250mm 12" 300mm 15" MANNYOLE PEQUIPED -ON MAIN 375mm 18" 450mm 21" MAIN 525mm 24" OF 600mm SIZE 27" 675mm 30" 750mm 33" 825mm 36" 900mm 42" 1050mm 48" 1200mm 54" 1350mm

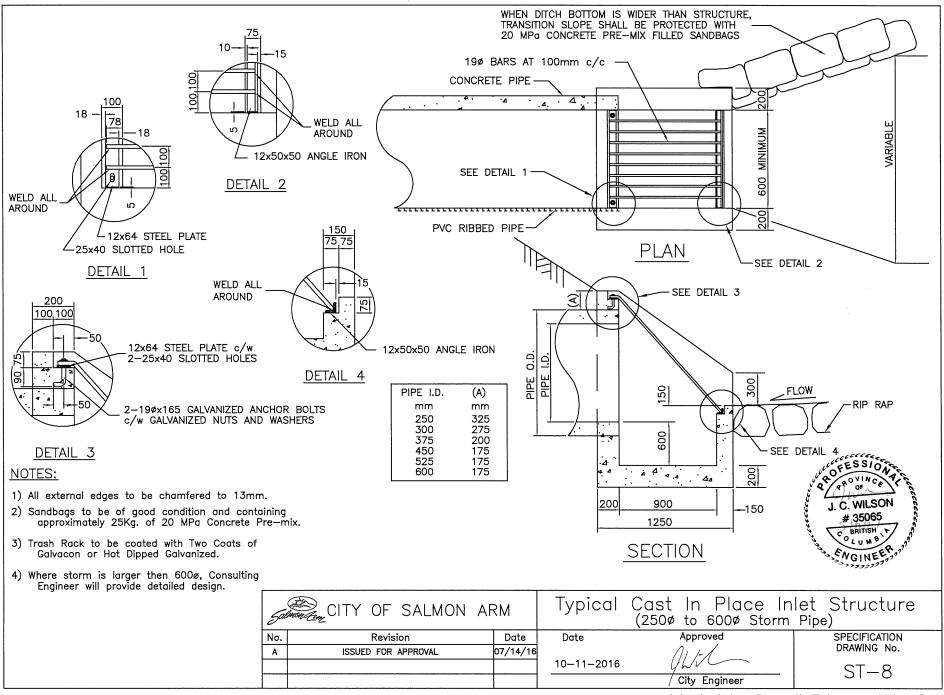
- Where Catch Basins are located within road right—of—way the Catch Basin leads do not require manholes at the storm main.
- 2) Inspection Chamber required at property for 150mm(6") services.
- 3) Services 450mm(18") and larger require approval by the City Engineer.
- 4) Manhole Frame and Cover required for 250mm(10") & 300mm(12") services in Driveways.

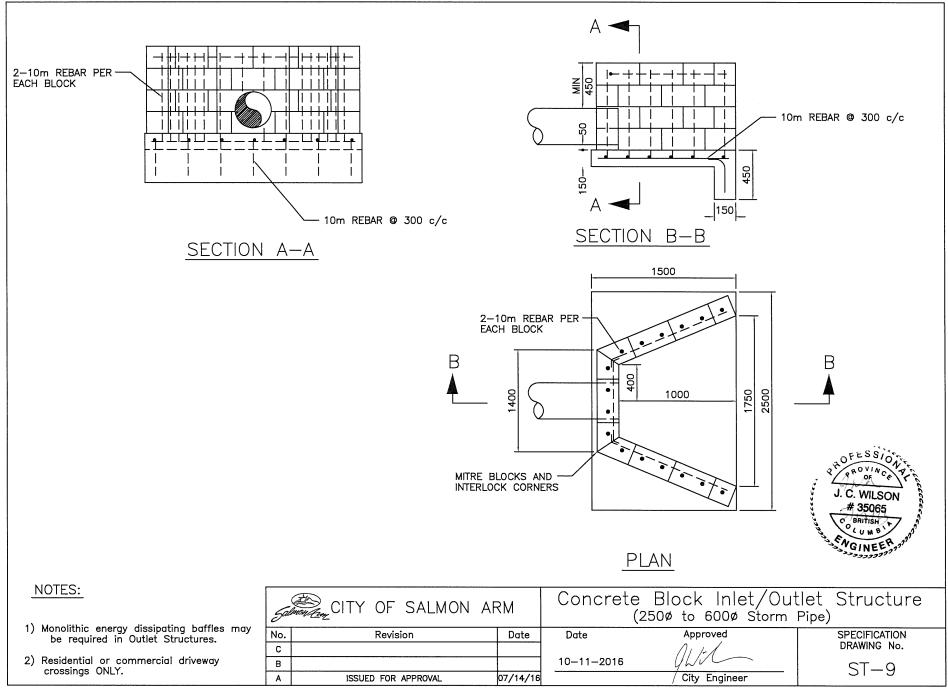


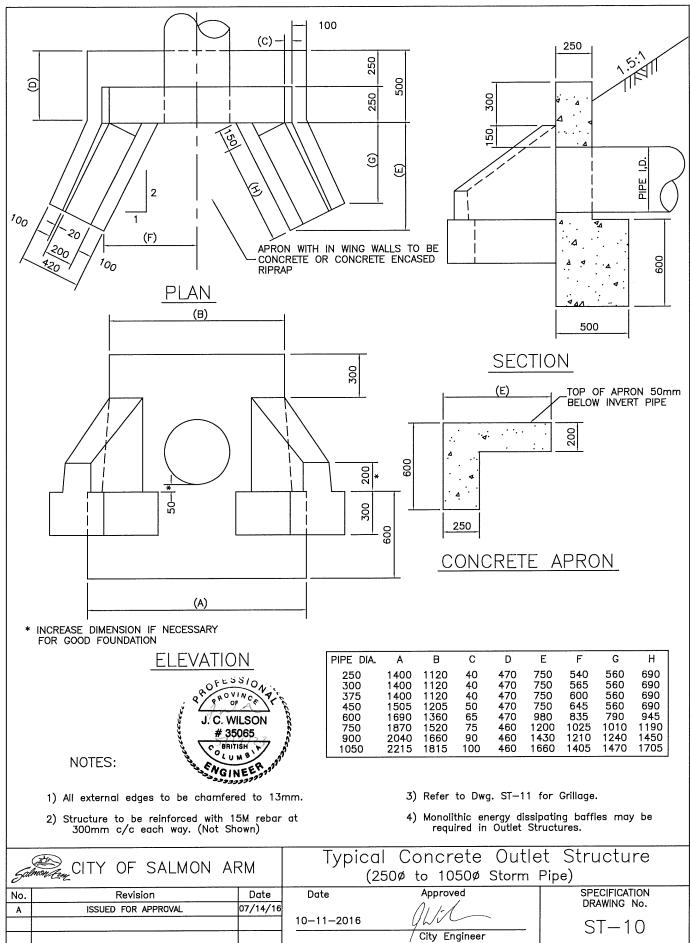
5ai	CITY OF SALMON	ARM	Manhole	Requirements for St	torm Sewer Services
No.	Revision	Date	Date	Approved	SPECIFICATION DRAWING No.
Α	ISSUED FOR APPROVAL	07/14/16		111-1	DRAWING No.
			10-11-201	6 420	_ ST—5
				/ City Engineer	01 0

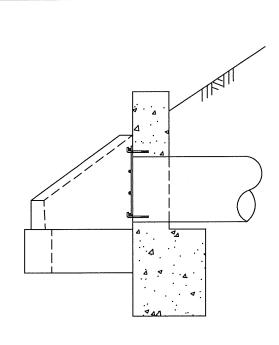


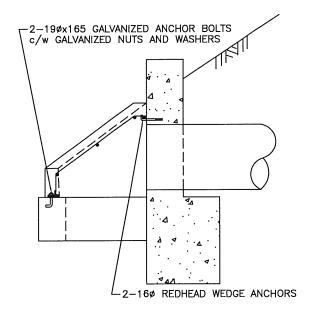




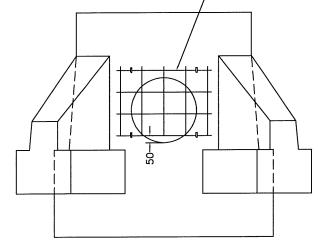


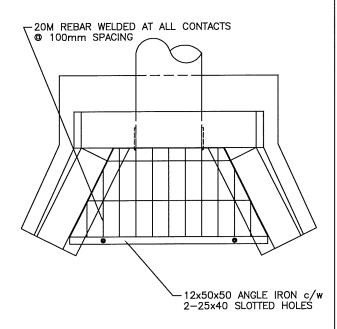






TRASH SCREEN FROM 15M REBAR WELDED TAT ALL CONTACTS ON 150mm c/c AND FASTENED TO STRUCTURE WITH 4-16Ø REDHEAD WEDGE ANCHORS





OUTLET GRILLAGE

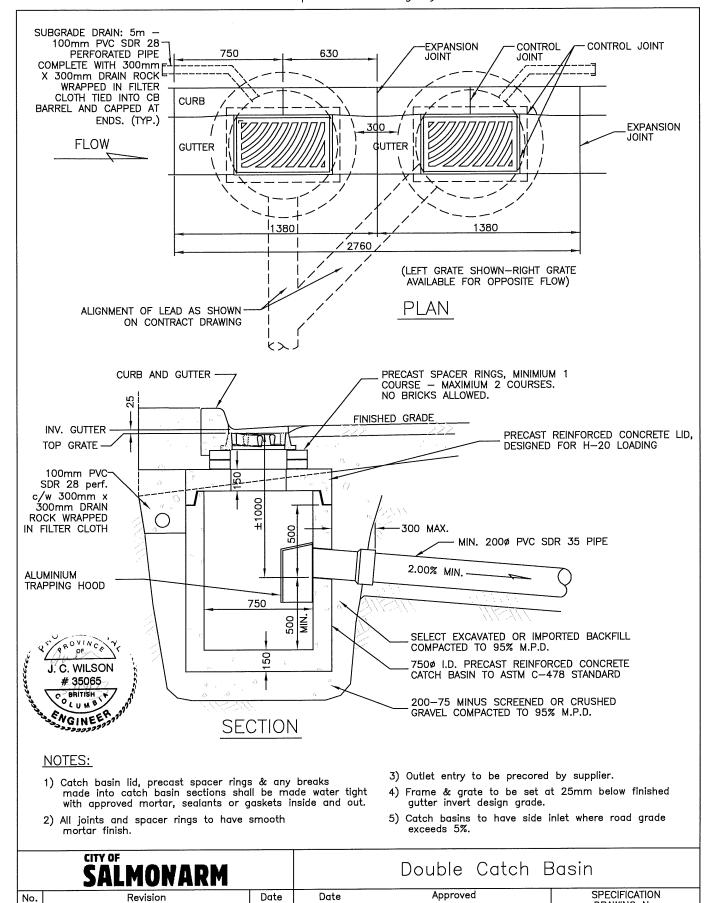
INLET GRILLAGE

NOTES:

1) Grillage to be coated with Two Coats of Galvacon or Hot Dipped Galvanized.



5ali	CITY OF SALMON	ARM	Safety	Grillage for Inlet/C	Outlet Structure
No.	Revision	Date	Date	Approved	SPECIFICATION
Α	ISSUED FOR APPROVAL	07/14/16		N1 1-1	DRAWING No.
			10-11-201	6	ST_11
				/ City Engineer	



10/11/16

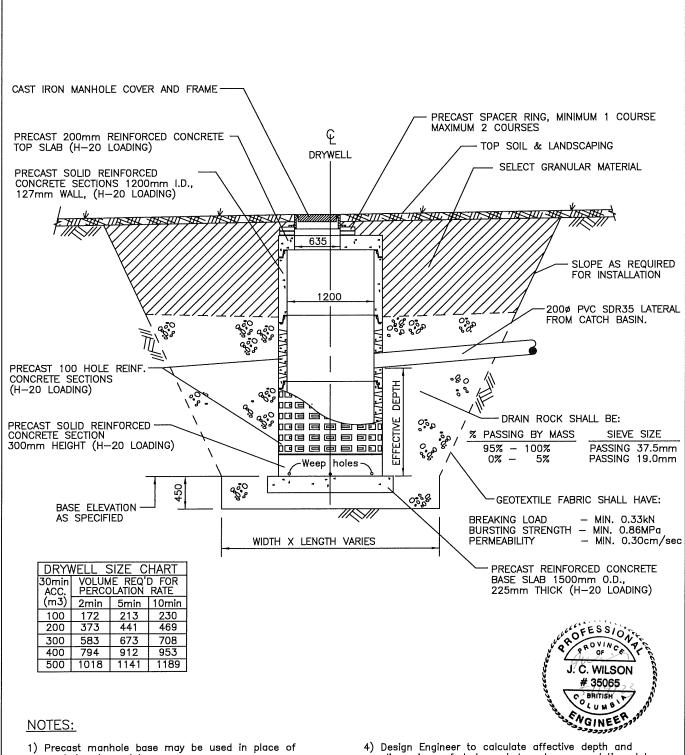
01/06/23

APPROVED

SDSB 4293 REV'S - ISSUED FOR APPROVAL

В

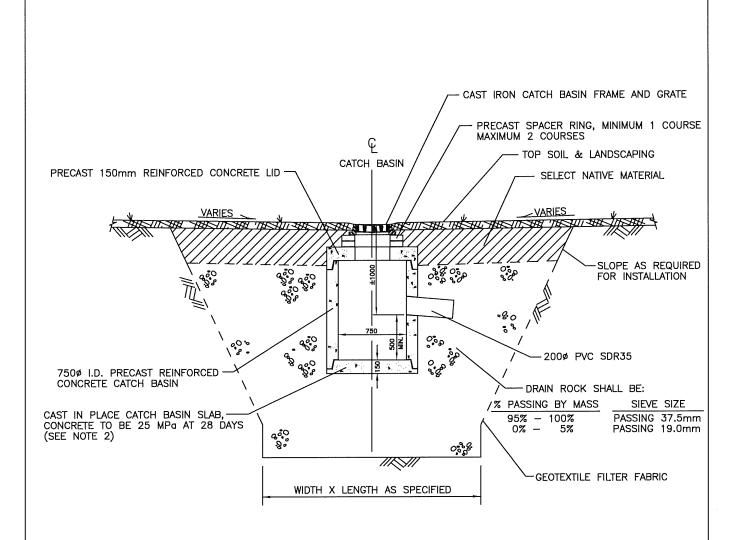
	Calviel Be	DRAWING No.	
01-06-2023	viewnes 195	ST_12	
	City Engineer	51 12	
	Adopted by Counci	L Fobruary XX 2023	



- cast-in-place slab.
- 2) Frame & cover to be set at 5mm below finished
- 3) Size to be confirmed by a Consulting Engineer.

dimensions of drain rock based on percolation data.

5all	CITY OF SALMON A	RM	Typical Drainage Drywell				
No.	Revision	Date	Date	Approved	SPECIFICATION DRAWING No.		
A	ISSUED FOR APPROVAL	07/14/16	10-11-2016	JUI L	ST_13		
				/ City Engineer	31 13		

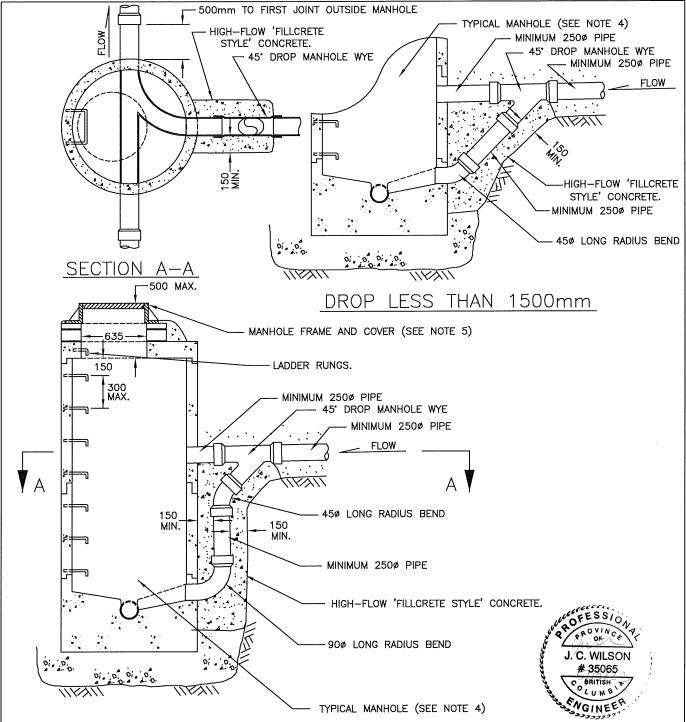


- Catch basin sections, lid & any breaks made into catch basin sections shall be made water tight with approved mortar, sealants or gaskets inside and out.
- Precast catch basin base may be used in place of cast—in—place slab.
- 3) Requires approval from the City Engineer.



5ali	CITY OF SALMON A	ARM	Тур	ical Catch Basir	n Drywell
No.	Revision	Date	Date	Approved	SPECIFICATION DRAWING No.
Α	ISSUED FOR APPROVAL	07/14/16		11/1	DRAWING No.
			10-11-2016	ywv C	ST-14
				/ City Engineer	01 11

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											IONAL F										SHEE	.T	(OF	
PRC	JECT_									İ	DESIGNE CHECKE	D BY								JO	B NC).:			
STO	RM RI	ETUF	КN	PEF	RIOD			YE	ARS	1	CHECKE	D BY:									DAT	E:			
DWG	STREET	FROM	то	AREA	%AREA	RUNOFF	EFFE	CTIVE	TIMI	E OF NTRATION	RAINFALL INTENSITY (minutes) mm/h	DESIGN FLOW	CAP.	n	SLOPE	SIZE	VELOCITY	PIPE	SLOPE	OTHER	TOTAL	UPSTRE	AM	DOWNSTR	REAM
NO.	OR LINE					COEF.	%ARE	À * R	MIN	UTES	(minutes)	Q m³/s	m³/s			mm	m³/s	LENGTH m			DROP	CDOLIND	INIX	CBOLIND	INIV
							INCK.	TOTAL	INCK.	TOTAL	11111711		,									GROUND	IIV.	GROOND	IIV.
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				زوورورد	J. C. V # 3	VILSON 5065	Ceest	5ai	inon Azn	CITY	OF SA	LMON	ARN	M			Stori	n S	iewe	r De	esig	n Sh	eet	-	
				ا دون	COBRI	M B		No.			Revision			Date		ate		A	pproved	j		SF	ECIF	ICATION	
				يود	SNGI	NEEP		Α		ISSUE	D FOR APPRO	DVAL	07	7/14/1	6 10-	-11-2	016	A	//L					NG No.	
															1 -			/ C	ty Engi	neer			5 -	-15	

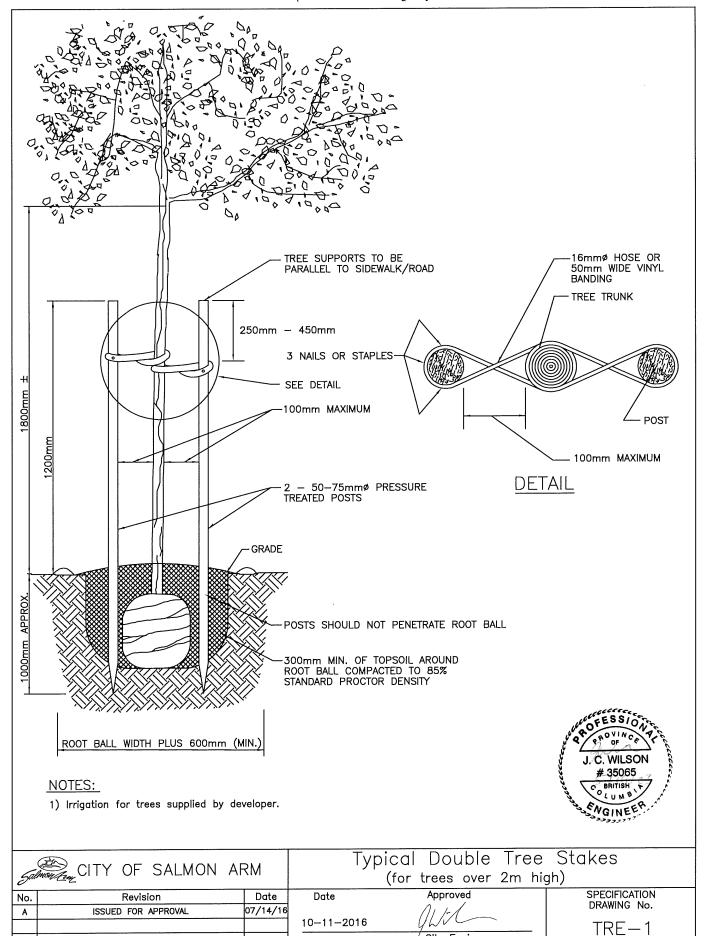


DROP GREATER THAN 1500mm

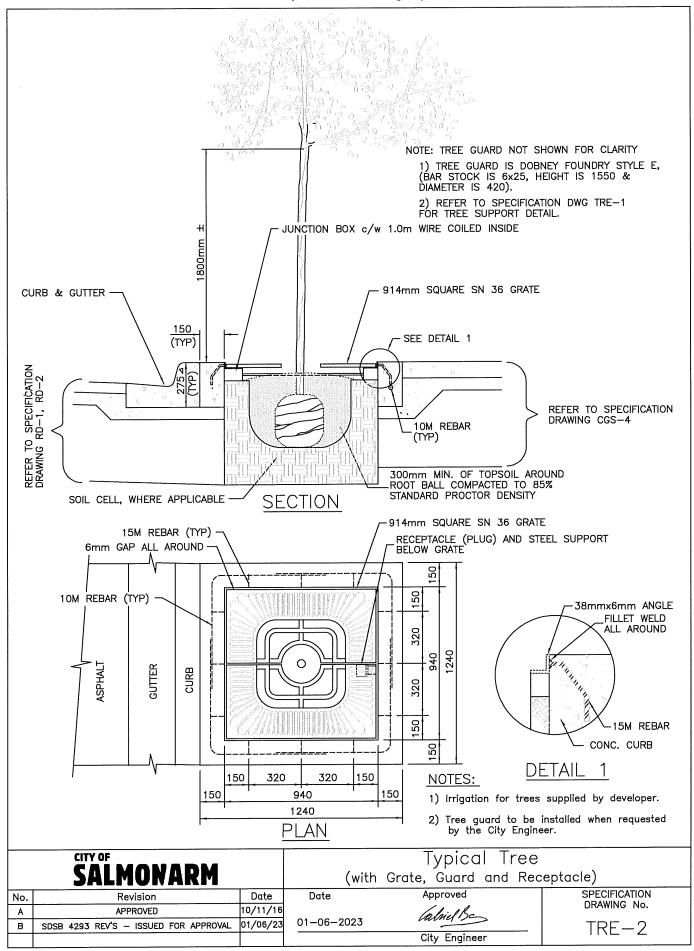
- Inside ramps shall be utilized where the elevation of the invert is the same or below the crown of the through pipe (Refer to Specification Drawing ST-2).
- 2) All joints to have smooth mortar finish.

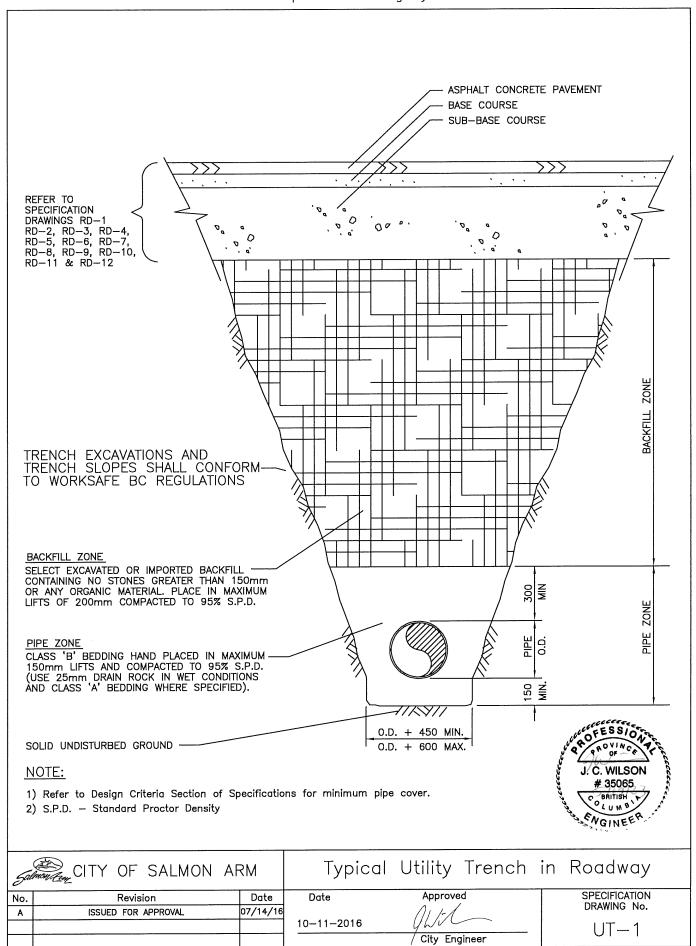
- Encasement Concrete strength to be high-flow 'fillcrete style' concrete.
- 4) Refer to Specification Drawing No. ST-2, Typical 1050mm Storm Manhole.
- 5) Refer to Specification Drawing No. ST-3, H-20 Manhole Frame & Cover.
- 6) Inside drop to be approved by the City Engineer.

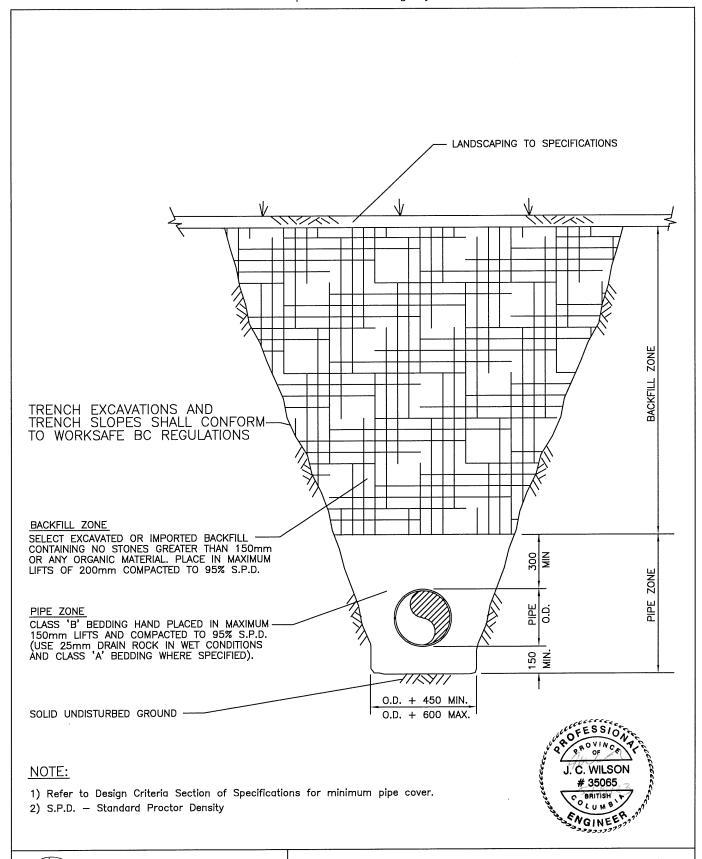
Jalmon J	CITY OF SALMON A	RM	Typica	l 1050mm Storm D	rop Manhole
No.	Revision ISSUED FOR APPROVAL	Date 07/14/16	Date	Approved	SPECIFICATION DRAWING No.
A	ISSUED FOR APPROVAL	07/14/10	10-11-2016	W.A.	ST-16
	7.000			/ City Engineer	



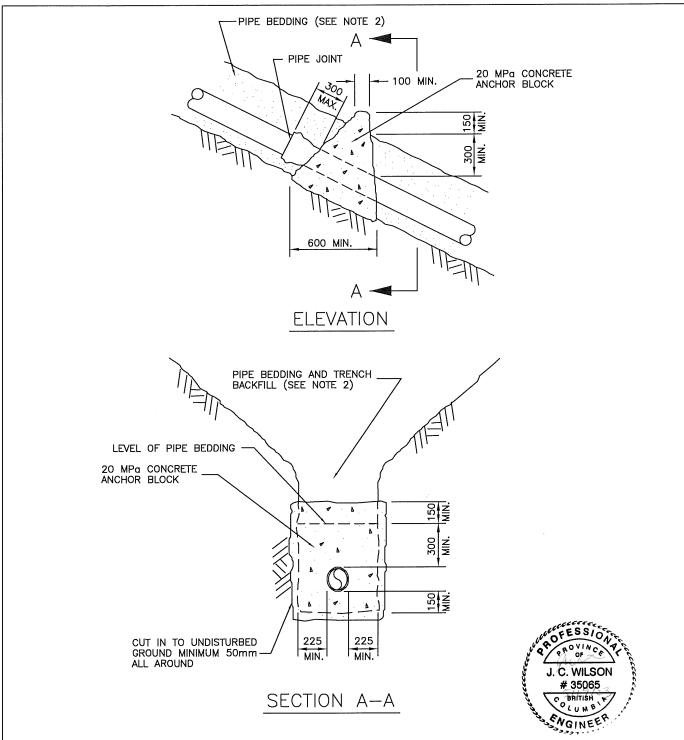
City Engineer







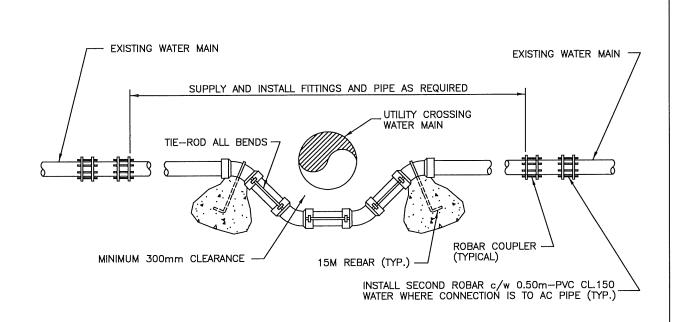
5all	CITY OF SALMON A	RM	Typical	Utility Trench i	n Boulevard
No.	Revision	Date	Date	Approved	SPECIFICATION DRAWING No.
A	ISSUED FOR APPROVAL	07/14/16		11/-1 -	DRAWING NO.
			10-11-2016	ywv -	IIT-2
				/ City Engineer	01 2



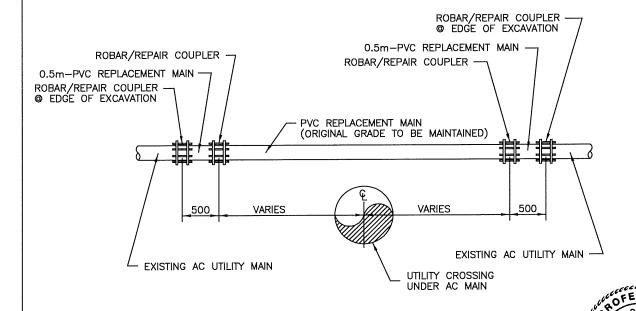
NOTE:

- The requirement for, location of, and number of, Anchor Blocks and/or Mechanical Pipe Restraints shall be site specific.
- Refer to Specification Drawing No. UT-1, UT-2 Typical Utility Trench in Roadway, Typical Utility Trench in Boulevard.
- 3) Concrete shall be kept clear of bells.
- 4) Concrete strength to be 20 MPa at 28 days.

Jalmon A	CITY OF SALMON	ARM		Anchor Block	KS
No.	Revision ISSUED FOR APPROVAL	Date 07/14/16	Date	Approved	SPECIFICATION DRAWING No.
	ISSUED FOR A TROVAL	07,11,10	10-11-2016	City Engineer	UT-3



TYPICAL UTILITY CROSSING WATER MAIN SCALE N.T.S.



TYPICAL UTILITY CROSSING UNDER AC MAIN SCALE N.T.S.

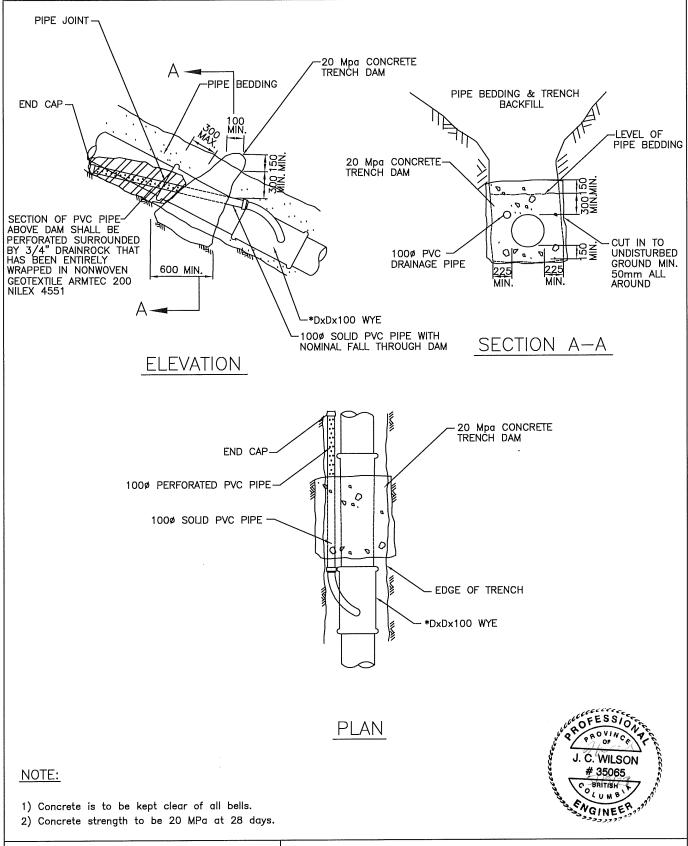
NOTE:

1) 3 Robars may be used when approved my the City Engineer.

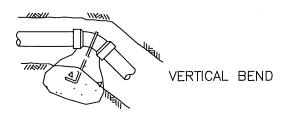
5 alm	CITY OF SALMON A	\RM	Utility	Main Relocation	on Details
No.	Revision	Date	Date	Approved	SPECIFICATION DRAWING No.
Α	ISSUED FOR APPROVAL	07/14/16		11/-1	DRAWING No.
			10-11-2016	9WV -	UT-4
				/ City Engineer	

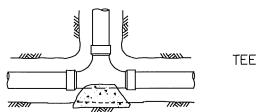
C. WILSON

35065



Jalmon A	CITY OF SALMON	ARM		Trench Dam D	etail
No.	Revision	Date 07/14/16	Date	Approved	SPECIFICATION DRAWING No.
A	ISSUED FOR APPROVAL	0//14/10	10-11-2016	(IV)	UT-5
1 1				/ City Engineer	





FITTING	TEES &	BENDS							
SIZE	DEAD ENDS	90°	45°	22.5	11.25				
100mm ø	20.58	28.93	15.80	7.90	3.95				
150mm ø	42.25	60.05	32.25	16.13	8.08				
200mm ø	72.28	103.43	55.60	27.80	13.90				
250mm ø	120.65	154.58	83.95	41.98	21.00				
300mm ø	154.58	219.08	120.10	60.05	30.03				

TABLE | - Approx. thrust in kN at 1725 kPa water pressure

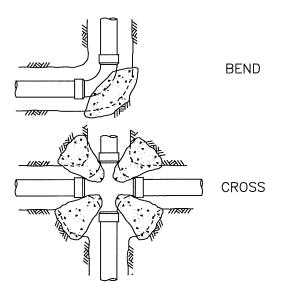


TABLE | — Approximate bearing loads for typical soils*

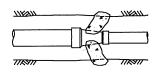
LOAD kPa(kN/m²)
0.00
47.88
95.76
143.64
191.52
478.80

*Approximate bearing loads for typical soils are presented in Table II, however, the Owner's Consulting Engineer is responsible for determining the safe bearing load for the soil and the design for each thrust block.

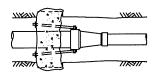
C. WILSON # 35065

THRUST BLOCK CALCULATION

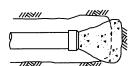
 $\frac{\text{Thrust (Table I)}}{\text{Bearing Load (Table II)}} = \text{Thrust Area (m}^2)$



REDUCER



REDUCER

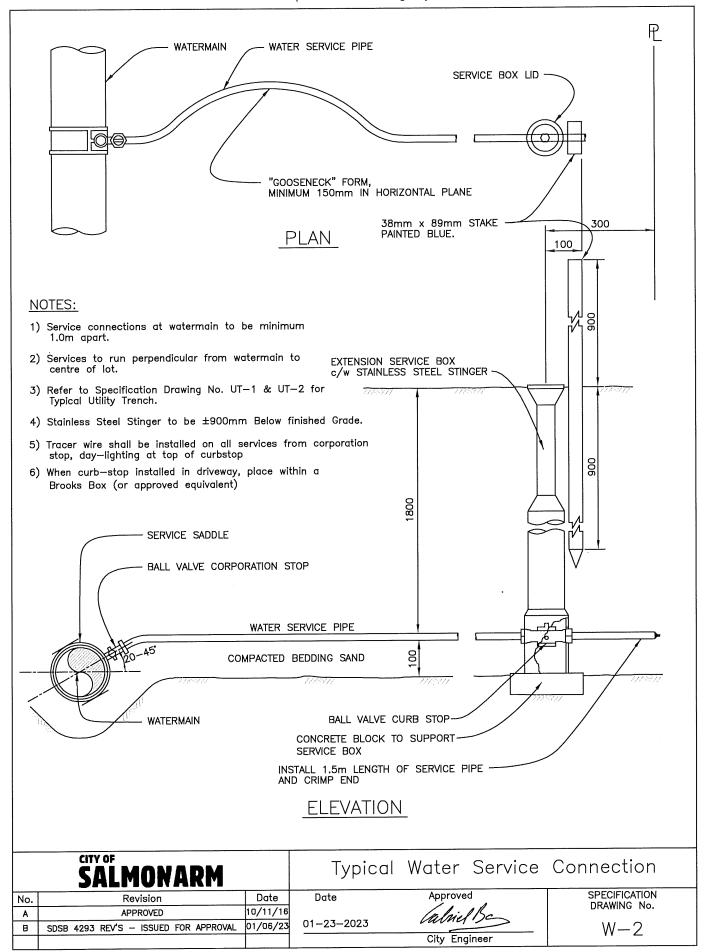


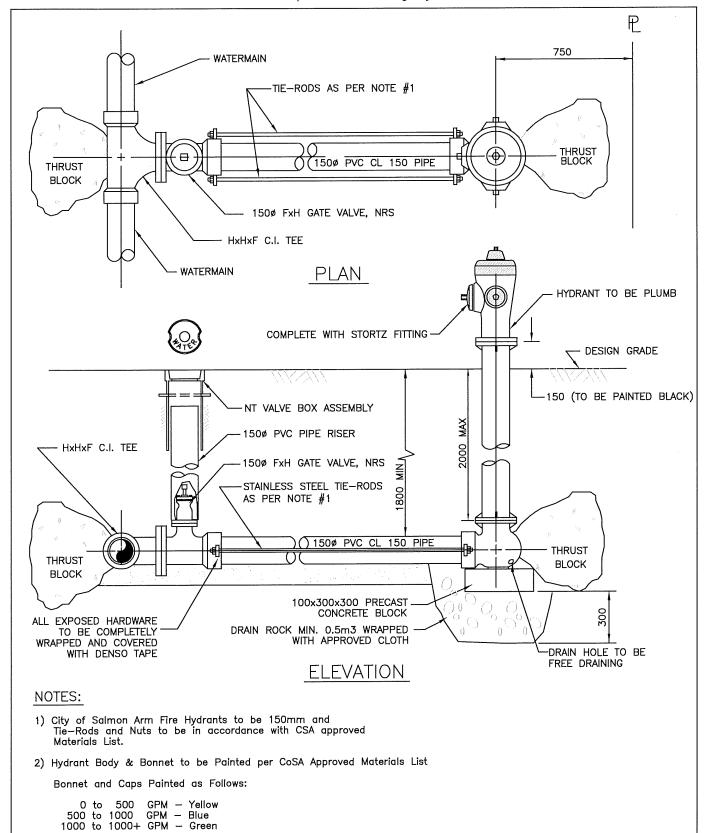
END CAP

NOTES:

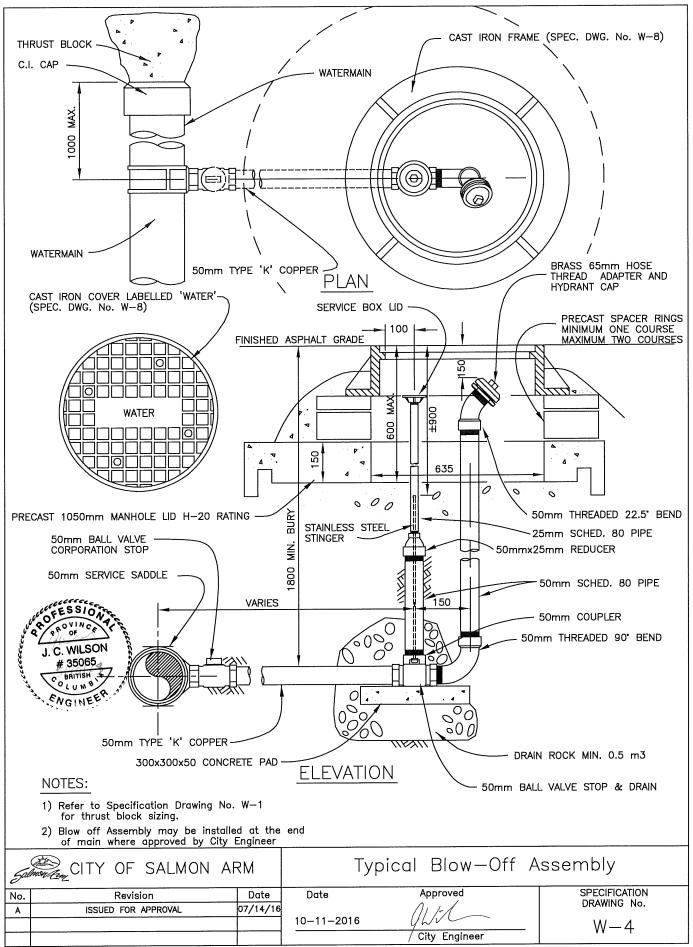
- Thrust blocks shall be designed for minimum 1725 kPa water pressure.
- 2) Thrust Blocks to extend into undisturbed soil.
- 3) 6 mil Poly to be placed over fittings to prevent bonding with concrete.
- 4) Concrete shall be kept clear of bells.
- 5) Concrete strength to be 20 MPa at 28 days.
- 6) Engineered joint restraint system will be an acceptable alternative to thrust blocks.
- 7) Vertical bends require individual design.
- 8) Thrust Block on 5° Bends in accordance to the manufacturers specifications.
- 9) Precast thrust blocks acceptable with approvals from City Engineer

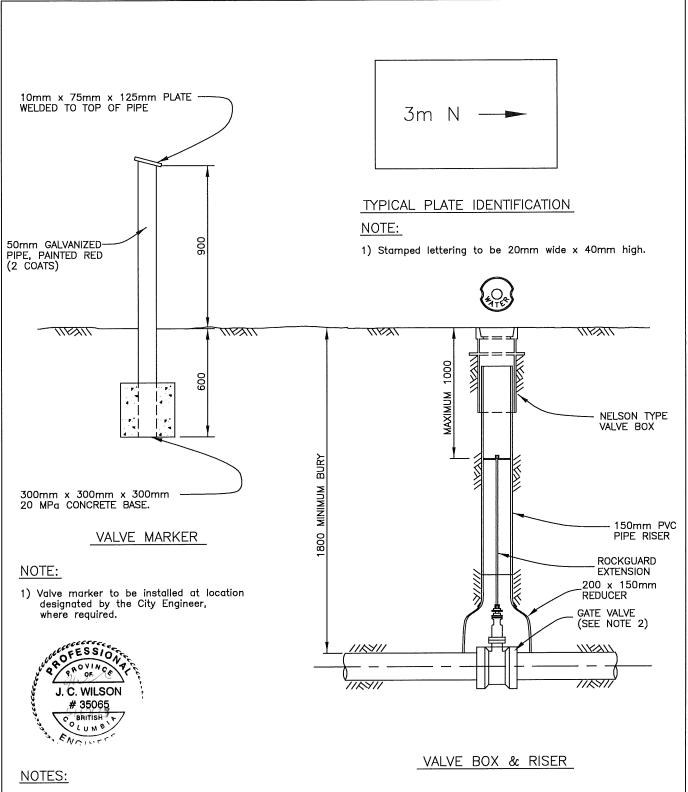
Jalmon A	CITY OF SALMON	ARM		Thrust Block De	etails
No.	Revision	Date	Date	Approved	SPECIFICATION
Α	ISSUED FOR APPROVAL	07/14/16		11/-/ -	DRAWING No.
			10-11-2016	4200	\/\/ 1
				/ City Engineer	Y Y 1





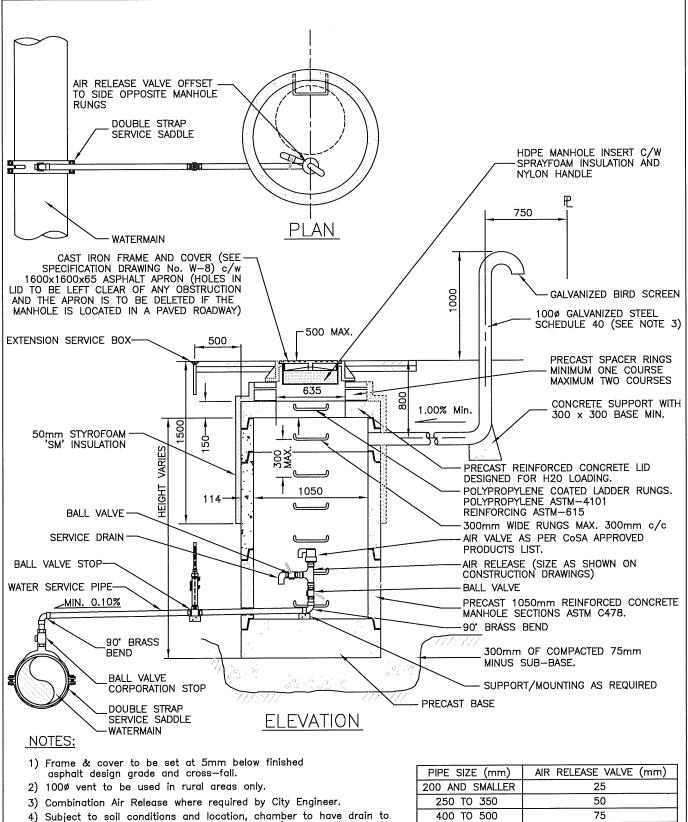
SALMONARM			Fire Hydrant Assembly		
No.	Revision	Date	Date	Approved	SPECIFICATION
Α	APPROVED	10/11/16		Calviel Be	DRAWING No.
В	SDSB 4293 REV'S - ISSUED FOR APPROVAL	01/06/23	01-06-2023	uung 5	W-3
				City Engineer	, , , , , , , , , , , , , , , , , , ,





- 1) Valve box not to bear on pvc pipe riser.
- 2) Refer to Specification Drawing No. UT-1 & UT-2, Typical Utility Trench.

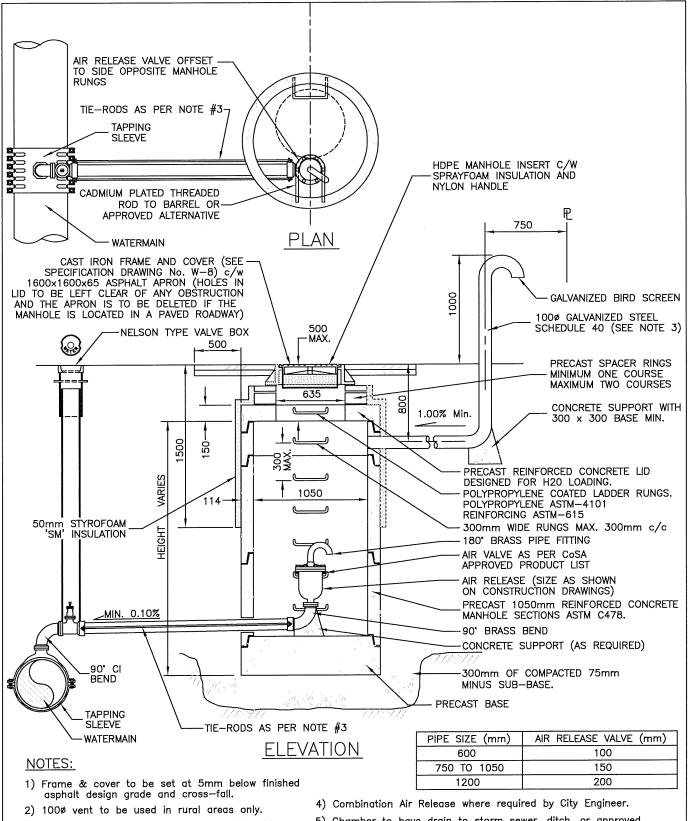
5ali	CITY OF SALMON A	RM		Standard Valve	Box
No.	Revision ISSUED FOR APPROVAL	Date 07/14/16	Date	Approved	SPECIFICATION DRAWING No.
A	ISSUED FOR AFFROVAL	07/14/10	10-11-2016	JUI -	W-5
				/ City Engineer	,, 0



storm sewer, ditch, or approved alternative c/w back-flow prevention.

PIPE SIZE (mm)	AIR RELEASE VALVE (mm)
200 AND SMALLER	25
250 TO 350	50
400 TO 500	75

	SALMONARM		Air Release	Valve (100 to 50	00mm dia. watermain)
No.	Revision	Date	Date	Approved	SPECIFICATION
Α	APPROVED	10/11/16		Calviel Be	DRAWING No.
В	SDSB 4293 REV'S - ISSUED FOR APPROVAL	01/06/23	01-06-2023	uung 35	_ W-6
				City Engineer	

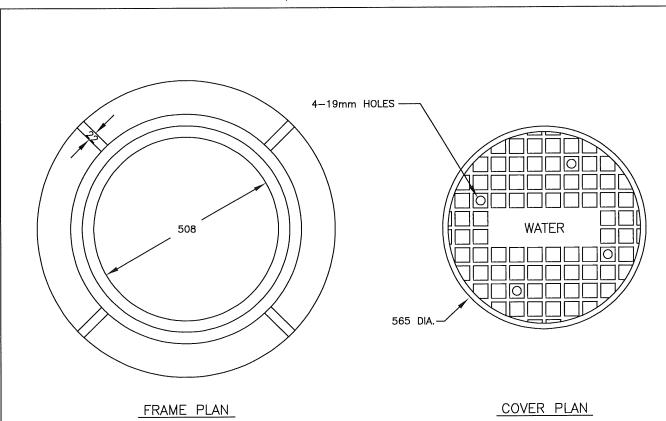


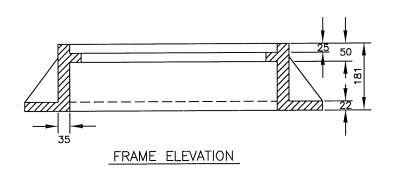
- 3) Tie—Rods and Nuts to be as per Section 2B Water Distribution Works, Clause 4.2.7 and 4.2.8.
- 5) Chamber to have drain to storm sewer, ditch, or approved alternative c/w back-flow prevention.

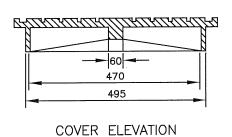
SALMONARM

10NARM Air Release Valve (600 to 1200mm dia. watermain)

No.	Revision	Date	Date	Approved	SPECIFICATION
Α	APPROVED	10/11/16		Calviel Be	DRAWING No.
В	SDSB 4293 REV'S - ISSUED FOR APPROVAL	01/06/23	01-06-2023		W_7
				City Engineer	, ,







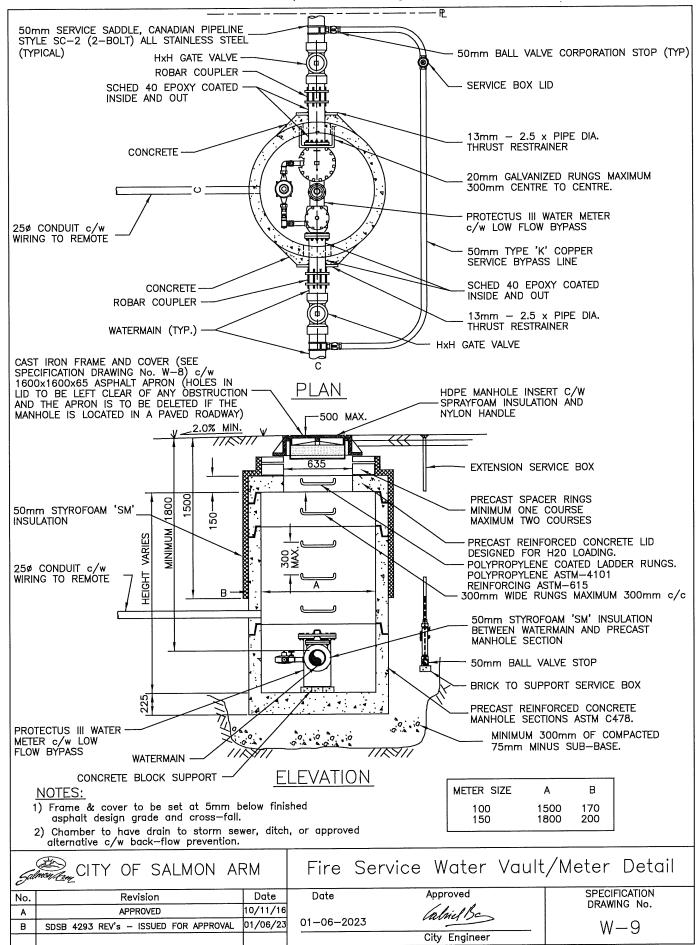
NOTES:

- 1) Frames and covers are to be designed to withstand H—20 loading.
- 2) Air Valve manhole covers shall be labelled: "WATER" labelled:
- 3) Blow-off Assembly manhole covers shall be labelled: "WATER" labelled:
- 4) Water meter manhole covers shall be labelled: "WATER"

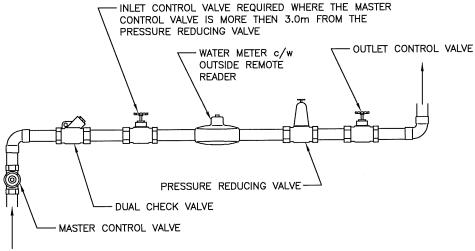
5) No low profile cast iron frame allowed, unless approved by the City Engineer.

5 almon	CITY OF SALMON A	RM	H-20	Manhole Frame	e & Cover
No.	Revision ISSUED FOR APPROVAL	Date 07/14/16	Date	Approved	SPECIFICATION DRAWING No.
	1550ED FOR AFFROVAL	07714710	10-11-2016	City Frances	W-8
				/ City Engineer	

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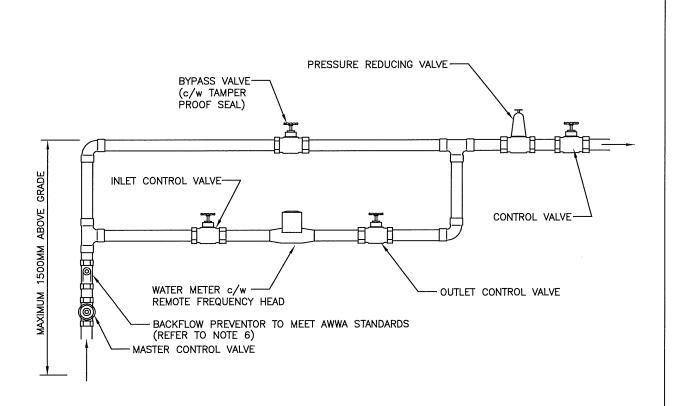


NOTES:

- Water meter c/w outside remote reader supplied by City of Salmon Arm.
- Meter to be installed as the first fixture on the service connection. All other fixtures to be installed down stream of the outlet control valve, such that all water consumption is metered.
- Remote reader to be mounted on outside wall near front of building, adjacent to the BC Hydro meter.
- 4) Wire to remote reader to be encased in 13mm schedule 40 PVC or approved equivalent, (optional).
- 5) Where the water meter is installed in the crawl space the water meter must be located within 1.20m of the access hatch.
- 6) City Engineer (or Building Inspector) may require higher level of backflow protection than a dual check valve depending on the proposed use.
- Piping on each side of meter must be adequately supported to the satisfaction of the Building department.
- 8) Meter must be on horizontal plane and upright.

- 9) Where a standard water meter setter is not used then there should be a minimum distance of 225mm between any wall and a meter or meter tree. The meter assembly should be appropriately secured to the wall or floor.
- Valves are required adjacent to meters (inlet & outlet side). Additional valve may be installed in individual units if required.
- 11) The area for 600mm in front of the meter shall be free of obstruction to allow for convenient reading and servicing of the meter, also 1.20m headroom must be provided in this area.
- In no case shall a meter be installed in a bathroom or bedroom.
- 13) The master control valve must be easily accessible and located immediately after the water service enters the building and immediately ahead of the meter.
- 14) 19ø and 25ø services ONLY. Can be used for a 38ø and 50ø upon City Engineer's approval.

Salm	CITY OF SALMON	ARM		Residential Water N	Meter
No.	Revision	Date	Date	Approved	SPECIFICATION DRAWING No.
A	ISSUED FOR APPROVAL	07/14/16	10-11-2016	JUI C	W_10
				/ City Engineer	VV — 1 O

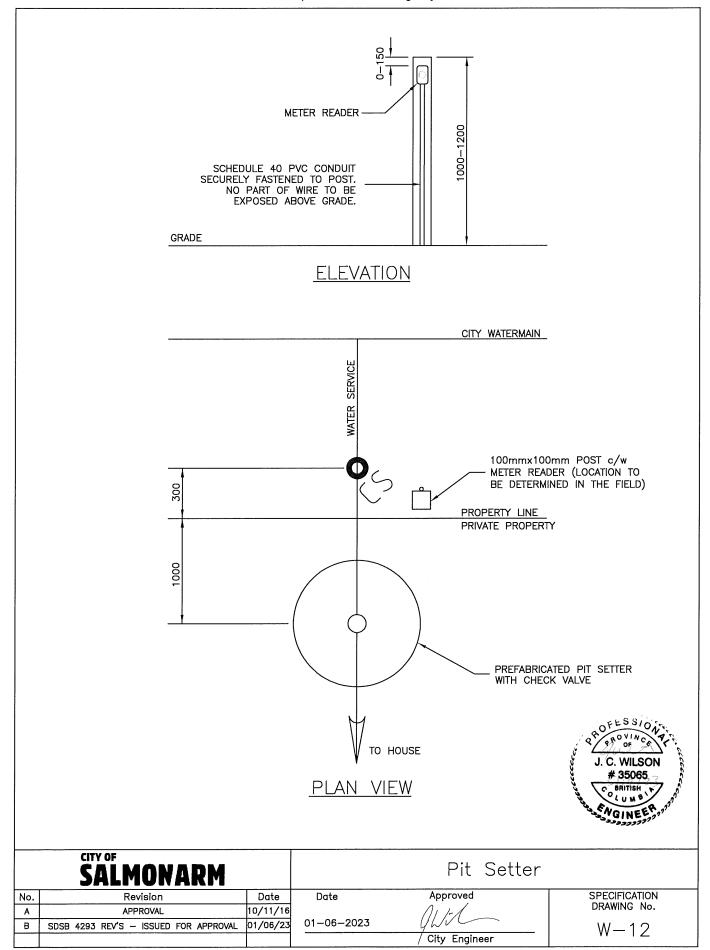


NOTES:

- Water meter c/w remote frequency head reader supplied by City of Salmon Arm.
- 2) Meter and Bypass to be installed as the first fixture on the service connection. All other fixtures shall be installed downstream of the bypass assembly. Bypass is only mandatory on services exceeding 38mm (1.5")
- 3) The bypass valve to be wired closed and sealed.
- 4) Type of backflow preventor to commensurate to the degree of hazard as establisheed by CAN/CSA B64.10 (most current) and approved by the City of Salmon Arm.
- Piping on each side of meter must be adequately supported to the satisfaction of the Building department.
- 6) Meter must be on horizontal plane and upright.
- 7) Where a standard water meter setter is not used then there should be a minimum distance of 225mm between any wall and a meter or meter tree. The meter assembly should be appropriately secured to the wall or floor.

- Valves are required adjacent to meters (inlet & outlet side). Additional valve may be installed in individual units if required.
- Alternate arrangement of piping and valving must have the approval of the Building department or Project Engineer prior to installation.
- 10) The area for 600mm in front of the meter shall be free of obstruction to allow for convenient servicing of the meter. This area also requires a minimum of 2.0m headroom.
- 11) In no case shall a meter be installed in a bathroom or bedroom.
- 12) The master control valve must be easily accessible and located immediately after the water service enters the building and immediately ahead of the meter.

SALMONARM		Commercial Water Meter			
No.	Revision	Date	Date	Approved	SPECIFICATION
Α	APPROVED	10/11/16		Cabriel Be	DRAWING No.
В	SDSB 4293 REV'S - ISSUED FOR APPROVAL	01/06/23	01-06-2023	uung 195	W-11
				City Engineer	¥¥



Subdivision and Development Servicing Bylaw No. 4293 Schedule "B" – Part 3



CITY OF SALMON ARM CONSTRUCTION SPECIFICATIONS

The City of Salmon Arm Construction Specifications shall be the Master Municipal Specifications and Standard Detail Drawings contained in the Master Municipal Construction Documents (MMCD) Platinum Edition Volume II (The Master Municipal Construction Documents Association 2009) as amended from time to time, and as modified by this document.

Where this document is in conflict with the Master Municipal Specifications, this document takes precedence.

CoSA Supplemental Master	Concrete Walks,	03 30 20\$
Municipal Specifications	Curbs and Gutters	Page 1 of 1

1.1 Related Work

Add: .8 Concrete Reinforcement Section 03 20 01

3.5 Concrete Placement

Add: .12

When concrete forms are removed all debris shall be immediately removed to the contractor's disposal site. During the interval when the forms are stripped and the concrete works are backfilled any grade separations shall be marked to provide for pedestrian safety.

3.19 Sign Post Bases

Add:

.1 Sign post bases shall be installed in accordance with Specifications Drawings No. SP-1. Where a sign post base protrudes above a sidewalk it shall be marked to advise pedestrians until such time as the sign post is installed.

CoSA Supplemental Master		26 56 018
Municipal Specifications	Roadway Lighting	Page 1 of 1

1.6 Permits and Tests

Add: .2 A copy of all necessary permits shall be provided to the Contract Administrator and City of Salmon Arm.

2.14 Luminaires

Add: .6 Luminaires installed in residential areas shall be completed with house side shield.

2.19 Power Base

Add: .1 Davit power base shall be completed with padlock hasp access door, 280mm top bolt circle pattern for 4-25mm bolts and 380mm bottom bolt circle pattern for 4-25mm x 920mm anchor bolts.

Add: .2 Ornamental power base shall be completed with padlock hasp access door, 250mm top bolt circle pattern for 4-19mm bolts and 380mm bottom bolt circle pattern for 4-19mm x 600mm anchor bolts.

2.20 Service Panel

Add: .1 Davit service panel shall be minimum 30 amp service panel complete with TEC bypass switch.

Add: .2 Ornamental service panel shall be minimum 20 amp service panel complete with TEC bypass switch.

CoSA Supplemental Master	Aggregates and Materials	Section 31 05 17S
Municipal Specifications		Page 1 of 3

1.5 Inspection and Testing

Add: .2 Sieve analysis of sub-base and base course aggregate required prior to placement.

2.6 Drain Rock

Replace:

.1 Drain rock shall be clean round stone or crushed rock conforming to the following grading limits:

Sieve Size	% Passing by Mass	
37.5 mm	95-100	
19 mm	0-8	
0.075 mm	0-3	

2.7 Granular Pipe Bedding and Surround Material

Replace:

- .1 Granular pipe bedding and surrounding aggregate in the pipe zone shall conform to the following specifications:
 - .1 Class 'A' Bedding is where the pipe is bedded in a continuous monolithic cradle of concrete as indicated in the CoSA approved drawings.
 - .2 Class 'B' bedding shall be imported aggregate meeting the following gradation:

Sieve Size	% Passing by Mass	
12.5 mm	100	
4.75 mm	35-100	
2.36 mm	20-70	
1.18 mm	13-50	
0.850 mm	8-35	
0.300 mm	5-25	
0.150 mm	2-15	
0.075 mm	0-6	

^{.3} Class 'C' pipe bedding shall be native material in the trench which meets the gradation for Class "B" pipe bedding aggregate.

CoSA Supplemental Master Aggregates and Materials Section 31 05 17S Municipal Specifications Page 2 of 3

2.8 Select Granular Sub-base

Replace:

.1 Sub base course aggregate shall be a 75 mm well graded sub-base course aggregate, composed of inert, clean, tough, durable particles uniform in quality and free from an excess of flat or elongated pieces, supplied conforming to the following grading limits:

Sieve Size	% Passing by Mass
75 mm	100
37.5 mm	60 – 100
19 mm	35-80
9.5 mm	25-60
4.75 mm	20-43
2.36 mm	15-35
1.18 mm	10-25
0.30 mm	3-13
0.075 mm	2-8

2.9 Crushed Granular Sub-base

.1

Replace:

Sub base course aggregate shall be a 75 mm crushed well graded subbase course aggregate, composed of inert, clean, tough, durable particles uniform in quality and free from an excess of flat or elongated pieces, supplied conforming to the following grading limits:

Sieve Size	% Passing by Mass
75 mm	100
37.5 mm	60 – 100
19 mm	35-80
9.5 mm	25-60
4.75 mm	20-43
2.36 mm	15-35
1.18 mm	10-25
0.30 mm	3-13
0.075 mm	2-8

CoSA Supplemental Master	Aggregates and Materials	Section 31 05 17S
Municipal Specifications		Page 3 of 3

2.10 Granular Base

.1

Replace:

Base course aggregate and shouldering aggregate shall be a crushed 25 mm 'well graded base course aggregate', composed of inert, clean, tough, durable particles uniform in quality and free from an excess of flat or elongated pieces, supplied conforming to the flowing grading limits:

Sieve Size	% Passing by Mass	
25 mm	100	
19 mm	80–100	
9.5 mm	50-100	
4.75 mm	35-70	
2.36 mm	25-50	
1.18 mm	15-35	
0.30 mm	5-20	
0.075 mm	2-8	

CoSA Supplemental Master	Excavation, Trenching	Section 31 23 01S
Municipal Specifications	and Backfilling	Page 1 of 1

3.6 Surface Restoration

.7 Permanent pavement restoration

Replace:	.5	Resto	re pavement as per City Supplemental Standard Drawing UT-1B.
Add:		.1	All asphalt shall be saw cut 500 mm wider and longer than the surface dimensions of the actual trench excavation. This saw cut must extend cleanly through the existing asphalt to the base material prior to asphalt removal.
Add:		.2	If the thickness of the existing asphalt is greater than 75 mm, grind it to a depth of 40 mm and a width of 200mm along the saw cut edge. This can be done just prior to the final asphalt restoration.
Add:		.3	Where the edge of the saw cut or milled asphalt, whichever is wider, extends into the travel lane, it should be extended to the mid point of that lane. Where the edge extends past the mid point of the travel lane, it should be extended to the far edge of that travel lane.
Add:		.4	Where the edge of the saw cut or milled asphalt, whichever is wider, is less than 1.5m from the lip of gutter or edge of paved shoulder, it should be extended to the lip of gutter or edge of paved shoulder.
Add:		.5	When an area of existing asphalt between two transverse trenches is less than one third (1/3) of the total area of the proposed paving of the two trenches plus the area between them (based on the shortest trench), the existing asphalt shall be removed and the area paved in conjunction with the paving of the two trenches.
Add:		.6	Regardless of 7.5.5, if the longitudinal distance between two trenches is less than three (3) meters it shall be removed and the area paved in conjunction with the paving of the two trenches.
Add:		.7	Longitudinal trenches must be paved with a paving machine.
Add:		.8	Hot-mix paving shall meet the thickness of the existing pavement or that shown on the design drawings, whichever is greater.
Add:		.9	Vertical faces and the surface of the bottom lift of asphalt must be painted with bituminous material prior to hot mix paving.
Add:		10	Where applicable, asphalt shall be keyed in as per the requirements of Section 32 12 16S 3.7.3 Longitudinal Joints.

CoSA Supplemental Master	Roadway Excavation,	Section 31 24 13S
Municipal Specifications	Embankment and Compaction	Page 1 of 1

3.4 Placing

Replace: .4 Place material to full width in uniform layers not exceeding 200mm in loose

thickness except that the top 500mm shall be constructed in layers not exceeding 100mm in loose thickness and compact to specified densities.

CoSA Supplemental Master	Hot Mix Asphalt	Section 32 12 16S
Municipal Specifications	Concrete Paving	Page 1 of 26

1.0 GENERAL

Add:

.2 Contract Administrator - As referenced to in this specification applies the designated project representative, approved by the City of Salmon Arm. The Contract Administrator must be designated prior to the onset of the project.

1.5 Measurement and Payment

Add: .9 Leveling coursing shall be included in the paving unit price.

Add: .10 Patching and tie-ins done in conjunction with projects over 100 tonnes shall be included in the paving unit price.

2.0 PRODUCTS

2.1 Materials

Add:

Replace: .1 Asphalt cement: to CGSB-16.3-M90, Grade 80-100, Class A; or with equivalent PG asphalt cement.

.1.2 The asphalt cement shall be homogenous, free from water, and shall not foam when heated to 175 °C.

Replace: .3.2 Gradations to be with the limits specified when tested to ASTM 136 and ASTM C117.

Table 2.1.3.2 - Hot Mix Asphalt Aggregate Gradation Specification

Sieve Designation	Percent Passing	
	Upper Course #1 (1)	Upper Course #2 (2)
25 mm	-	-
19 mm	100	-
12.5 mm	84-99	100
9.5 mm	73-88	-
4.75 mm	50-75	55-75
2.36 mm	35-55	38-58
1.18 mm	27-46	28-47
0.600 mm	18-36	20-36
0.300 mm	10-26	10-26
0.150 mm	4-17	4-17
0.075 mm	3-8	3-8

CoSA Supplemental Master	Hot Mix Asphalt	Section 32 12 16S
Municipal Specifications	Concrete Paving	Page 2 of 26

Note (1) Upper Course #1 to be used for Arterial, Industrial, Commercial, Residential and Lane Road Classifications.

(2) Upper Course #2 to be used on multi-use pathways and sidewalks

Replace: .3.6 Sand Equivalent: to ASTM D2419. Min:50 (New Arterial), Min:40 (All other street classifications).

.3.10 Lightweight particles: to ASTM C123. Maximum % by mass less than 1.95 relative density:

.1 Surface course: 1.0

.2 Lower course: 1.5

Replace: .3.11 Flat and elongated particles: (with length to thickness ratio greater than 5): Maximum % by mass:

.1 Coarse aggregate, surface course: 10

.2 Coarse aggregate, lower course: 10

Replace: .3.12 Crushed Particles (fraction retained on 4.75 mm sieve), 2 faces, % minimum:

.1 New arterial streets: 85

.2 All other street classifications: 75

2.2 Mix Design

Replace:

Replace: .1 The contractor shall supply the Contract Administrator with a current 5 point mix design, under the signature of a Professional Materials Engineer. The mix design shall follow the Marshall method of mix design as outlined in the latest edition of the Asphalt Institute Manual Series No. 2 (MS-2), and shall include five separate trial values of asphalt content, using the compactive effort specified in this document.

Replace: .2 Mixes for construction of asphalt base course should not include Recycled Asphalt Pavement (RAP).

Replace: .3 Design of Mix: Include the following content with the trial mix design submission:

.1 Summary statement (usually in the form of a letter to the testing agency's client) which contains, as a minimum, the following information:

CoSA Supplemental Master		Hot Mix Asphalt	Section 32 12 165
Municipal Specifications	.1	Concrete Paving Product for which the design app agency.	Page 3 of 26 plies and the specifying
	.2	Method of sample preparation (eg. plant mix samples), date performed procedure utilized (eg. ASTM D692	l, and definitions of the
	.3	Reference to design aggregate grade aggregate stockpile (or bin numbers utilized to achieve the design grade	s), blending rates
	.4	Grade and refinery source of asphamix design procedure, including recomixing and mixture compaction temapplied during production and compared to the compaction and compaction and compaction and compaction and compaction and compaction are compaction.	commended plant operature ranges to be
	.5	A statement identifying the recommon content with an accompanying tabular Marshall properties at that target vashould include an accompanying conspecified Marshall property requires	llation of anticipated alue. The tabulation olumn showing the
	.6	A concluding statement that identificagency's client, that job mix formula the submission represent a starting mix production, and that Marshall p mix should be verified.	a details contained in point for actual plant
.2	at ea that t the b	oulation and graphical representation of the trial asphalt content in the mix desi the mix design is meaningless unless that asis of asphalt content reporting (either weight of aggregate).	ign. It should be noted the report clearly states
	Data	to be shown shall include (but not lim	ited to):
	.1	Number of Marshall blow.	
	.2	Marshall relative density of specime	ens.
	.3	Marshall stability (ASTM D6927).	
	.4	Marshall flow (ASTM D6927).	
	.5	Voids in Mineral Aggregate (V.M.A.).

Air Voids (ASTM D3203).

.6

CoSA Supplemental Master		Hot Mix Asphalt	Section 32 12 16S
Municipal Specifications		Concrete Paving	Page 4 of 26
	.7	% Voids filled with asphalt.	
	.8	Maximum relative density (ASTM [02041).
	.9	Asphalt absorption (ASTM D4469)	
	.10	Index of retained stability (optional	- depends on agency)
	.11	Film thickness (optional - depends	on agency)
	In ac	ddition, the following materials proper	ties must be shown:
	Relat Relat	ive density of coarse aggregate (AST ive density of fine aggregate (ASTM ive density of combined aggregate. ive density of asphalt cement.	,

- .3 Current temperature viscosity curve from the asphalt supplier (testing agency to super-impose mixing and compaction temperature ranges based on viscosity requirements shown in ASTM D6926).
- .4 Tabulated graphical presentation of aggregate(s) used in trail mix designs. The specified gradation "envelope" should be shown on both forms of presentation, as should production tolerance limits if contained in the Specifications.
- .5 Mix Physical Requirements to meet Table 2.2.3.5 below.

Table 2.2.3.5 – Specified Physical Requirements of Hot Mix Asphalt

Property	Mix Type		
r roperty _	Upper Course #1	Upper Course #2	
Blows per face	75	50	
Stability @ 60°C, kN (min)	8.0	5.5	
Flow Index, 0.25 mm units	8 - 14	8 - 15	
Voids in Mineral Aggregate %	14 - 17	14 - 17.5	
Air Voids in mixture			
- at design A.C.	4.0% ± 0.2%	4.0% ± 0.2%	
- allowable production range	3 - 5	3 - 5	
Index of Retained Stability after immersion in water for 24 hrs @ 60°C (min)	85	85	

CoSA Supplemental Master	Hot Mix Asphalt	Section 32 12 16S
Municipal Specifications	Concrete Paving	Page 5 of 26

- .1 The asphalt content of hot mix asphalt which is produced in accordance with the approved Marshall design shall be maintained within plus or minus 0.3 % of the approved design asphalt content.
- .6 If anti-strip additives are not included in the mix design submission then the following test results must be submitted:
 - .1 Index of Retained Stability minimum 85%
 - .2 Tensile Strength Ratio minimum 80%
- .7 Upper course #2 mix design requirements for multi-use pathways and sidewalks is to be used as a guideline for asphalt suppliers. If a cost effective, alternative mix design is submitted, the Contract Administrator may consider it for use and is subject to the approval of the City of Salmon Arm.

Add: .4 Job Mix Formula.

- .1 Subject to approval by the Contract Administrator, the aggregate proportioning, target gradation, asphalt content and air void content from the Mix Design will become the Job Mix Formula for the supply of hot mix asphalt.
- .2 Once established, no alterations to the Job Mix Formula will be permitted unless the Contractor submits a new Job Mix Formula and approved by the Contract Administrator.
- .3 If the sum of any alterations to the Job Mix Formula is in excess of any one of the following limits, a New Mix Design is required.
 - ± 5.0 % passing the 4.75 mm sieve size
 - ± 1.5 % passing the 0.075 mm sieve size
 - ± 0.30 % asphalt content

3.0 EXECUTION

3.1 Plant and Mixing Requirements.

.1 Batch and continuous mixing plants:

Replace:

.3 Before mixing, dry aggregates to a moisture content not greater that 1% by mass or to a lesser moisture content if required to meet mix design requirements.

CoSA Supplemental Master	Hot Mix Asphalt	Section 32 12 16S
Municipal Specifications	Concrete Paving	Page 6 of 26

Replace: .9 RAP should not be incorporated into the mix.

.11 Mixing time:

Add:

.3 Mixing period and temperature to produce a uniform mixture in which particulates are thoroughly coated.

.2 Dryer drum mixing plant:

Replace: .1 RAP should not be incorporated into the mix.

.4 Mixing tolerances:

Replace: .1 Permissible variation in aggregate gradation from job mix (percent of total

mass):

.1	4.75 mm and larger	±5.0
.2	2.36 and 1.18 mm	±4.0
.3	0.600 mm and 0.300 mm	±3.0
.4	0.150 mm	±2.0
.5	0.075 mm	±1.5

Replace:

Mixing temperature requirements should be within \pm 15°C of the design mix temperature designated in the accepted mix design. Plant mix outside this range at the point of discharge may be rejected at the discretion of the contract administrator.

3.2 Equipment

.3

- Add to .1 .1 Pavers must be capable of placing a standard mat width not less than 3.0 m and must be capable of paving wider widths in 150 mm and 300 mm increments by means of equipment supplied by the manufacturer of the equipment. The screed must include a tamping bar or strike-off device
 - .2 Control of the screed must be by automatic sensing devices. Longitudinal control must be by a sensor that follows a string-line, ski or other reference. The grade sensor must be moveable and mounts provided so that grade control can be established on either side of the paver. A slope control sensor must be provided to maintain the proper transverse slope of the screed.

CoSA Supplemental Master	Hot Mix Asphalt	Section 32 12 16S
Municipal Specifications	Concrete Paving	Page 7 of 26

3.3 Preparation

- Add to .1 .1 All preparation work, including final compaction with vibratory roller immediately prior to paving shall be the responsibility of the paving contractor.
 - .2 Upon completion of the sub-grade preparation, the subgrade may be proof rolled in the presence of the Contractor with a loaded single axle truck with a rear axle load of 8165 kg where requested.

Any areas found to be soft or wet shall be excavated and backfilled with select granular subbase and compacted to 100% Standard Proctor density (ASTM D-698) by the contractor prior to paving.

- Add to .5 .1 Prime coat application to granular base course surfaces will not be required.
 - .2 Tack coat shall be applied using an asphalt distribution truck at a distribution rate agreed upon with the City of Salmon Arm.

3.5 Placing

- Add to .1

 Late season public paving operations and all private development paving operations must be completed by October 15th. The City of Salmon Arm can waive the placement conditions in public traffic zones after this time. If a waiver is issued, it does not relieve the asphalt supplier and/or paving contractor of providing materials and workmanship that meets the standards set out in this specification to the best of their ability. The waiver is only valid if the placing conditions in Section 3.5.3 are not satisfied during paving. The waiver should be included in the contract documents once the project completion date is determined. The following asphalt properties and paving conditions should be considered individually in the waiver agreement:
 - .1 Asphalt compaction
 - .2 Asphalt thickness
 - .3 Asphalt mixing temperature
 - .4 Marshall mix properties
 - .5 Workmanship (includes smoothness and segregation)
 - .6 Base course temperature and surface condition
 - .7 Ambient air temperature and weather conditions

CoSA Supplemental Master	Hot Mix Asphalt	Section 32 12 16S
Municipal Specifications	Concrete Paving	Page 8 of 26

- .2 Minimum 48 hours notice shall be given to the City of Salmon Arm by the Contractor prior to the commencement of paving works. All costs incurred by the City by contractor initiated scheduling changes with less than 48 hours notice shall be borne by the contractor.
- The Contractor should schedule works such that disruption of normal traffic, and inconvenience to residents, in the working area is kept to a minimum. The Contractor shall provide all certified flagpersons, cones, barricades, lights, signs, etc., required to maintain safe and adequate traffic flow at each construction site. Every effort shall be made to maintain the movement of traffic at all times, with minimum delays, and provision shall at all times be made for emergency vehicles. All traffic control signs and barricades must be at least to the standard set out in the Traffic Control Manual for Work on Roadways published by the B.C. Ministry of Transportation. Where specified on the drawings, construction advisory signs, to the City of Salmon Arm requirements, shall be posted at each end of the construction site.
- .4 Traffic shall not be permitted on the finished pavement surface until the asphalt surface has cooled to atmospheric temperature. It shall be the responsibility of the Contractor, to supply all traffic control for direction and safe movement, until such time as the asphalt has cooled.
- .3 Placing Conditions:

-

Add to

- .2 .1 Surfaces onto which bituminous concrete pavement is placed shall be above 5°C.
- .4 Place asphalt concrete in compacted lifts of thickness as shown on Contract Drawings:

Replace: .3 Maximum lift thickness not to exceed 75 mm.

Add:

.4 Minimum lift thickness should be at least 3 times the nominal maximum aggregate size to ensure aggregate can align themselves during compaction to achieve required density and also to ensure mix is impermeable. For example if the nominal maximum aggregate size as shown on the mix design is 16.0 mm the minimum lift thickness would be 48 mm.

CoSA Supplemental Master	Hot Mix Asphalt	Section 32 12 16S
Municipal Specifications	Concrete Paving	Page 9 of 26

Add:

The thickness of the asphalt concrete pavement shall be substantially uniform and the minimum compacted thickness shall not be less than specified in the Contract Documents and this specification. The completed asphalt surface shall conform to the required line, grade and cross-section, to an accuracy of \pm 6 mm. The finished asphalt grade shall be 6 mm higher than the elevation of the top of water valves, manhole frames and covers, catch basins, and lip of the gutter."

Add:

.9 Paving must commence within five (5) business days of milling or pulverizing. Exemptions may be granted by the City of Salmon Arm due to inclement weather.

3.6 Compaction

Replace:

Roll asphalt continuously to average density not less than 97% of the laboratory compacted Marshall relative density in accordance with ASTM D6926 with no individual test less than 95%.

3.7 Joints

.1 General

.1

8.

Add:

.4 Tie-ins to existing pavement shall be made by cutting back the existing pavement to sound material as necessary to produce a neat, vertical face with a straight edge. Prior to placing asphaltic concrete, exposed faces and other abutting structures shall be painted with liquid asphalt and heated to 66°C by the Contractor.

Add:

.5 When placing final pavement layer against concrete curbing, compacted pavement must meet the gutter at a minimum of 3mm above to a maximum of 10mm above and along the entire lip of the gutter.

.3 Longitudinal joints

Add:

- .8 Longitudinal joints shall be constructed hot whenever feasible. Cold longitudinal joints shall be constructed only under unavoidable conditions and with the consent of the City of Salmon Arm. Cold joints that have cooled to ambient temperature shall be saw cut or milled a width of at least 75 mm.
- .9 Longitudinal joints shall be keyed in where depth of asphalt is 100mm or more. Key in depth of existing asphalt and new asphalt lift to both be a minimum 50mm and width to be minimum 100mm.

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Add: .7 Where base remediation work has occurred, joints shall be offset a minimum of 300mm from edge of undisturbed base.

3.9 Sidewalks, Driveways and Curbs

Add: .6 Driveway and roadway tie ins to be completed daily. Saw cuts for tie ins to be prepared at start of paving day.

3.11 Defective Work

Replace:

.2 Flaws in the pavement shall be corrected by removal of the complete area and the full lift involved. Pavement which is unsatisfactory in the opinion of the City Engineer by reason of faulty materials or methods of placement shall be repaired, removed, replaced or otherwise corrected.

3.12 Clean-Up

Add: .2 The Contractor shall remove to a City of Salmon Arm approved dumping site all surplus materials, waste asphalt, waste concrete, surplus aggregate, and any other debris, from the site, immediately upon completion of each phase of the works which generated the surplus materials or debris.

Add: .3 Driveways, retaining walls, vegetation and other private or municipal improvements on private or municipal property or highways damaged by the Contractor shall be restored at minimum to the condition existing prior to construction and to the satisfaction of the City Engineer.

Add the following subsections:

4.0 SAMPLING AND TESTING

4.1 General

- .1 The Contract Administrator shall have access to all production processes and materials used for the work to monitor material quality as often as deemed necessary. Such inspection and testing shall not in any way relieve the Contractor of the responsibility for meeting the requirements of this specification.
- .2 At least three weeks prior to commencing work, inform the Contract Administrator of the proposed source of aggregates and provide access for sampling, and provide samples of asphalt cement in accordance with Section 2.1.1.

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- .3 A lot shall be defined as A portion of the work being considered for acceptance as follows:
 - 1500 m² of continuous paving production. When less than 1500 m² is produced in a construction period the actual production for that period may, at the discretion of the Contract Administrator, be added to the previously completed pavement construction; or,
 - At the Contract Administrators discretion, any portion of the work may be deemed a lot.

4.2 Quality Control

- .1 Quality Control is the responsibility of the Contractor throughout every stage for the Work from aggregate processing to the final accepted product. Tests performed by the Contract Administrator will not be considered as quality control tests.
- .2 The Contractor shall be totally responsible for production of materials and construction that meet all specified requirements.
- .3 All quality control shall be conducted by qualified personnel. The Contractor shall bear the cost of all quality control testing and consulting services.
- .4 Pre-Production testing and sampling and minimum frequencies are described in Table 4.2.4, Pre-Production Quality Control Requirements.
- .5 Post-Production testing and sampling and minimum frequencies are described in Table 4.2.5, Recommended Post-Production Quality Control Requirements.
- .6 Pre-Production Quality Control test data as specified in Table 4.2.4 shall be reported to the Contract Administrator one week prior to commencing the project, or as requested.
- .7 Post-Production Quality Control test data as specified in Table 4.2.5 shall be reported to the Contract Administrator daily as the Work proceeds.

4.3 Quality Control Compliance with Specified Tolerances

- .1 Asphalt Content, Aggregate Gradation and Mixture Properties.
 - .1 The test data derived by Post-Production Quality Control mix testing, described in Section 4.2 shall be compared to the tolerances set forth in Section 2.0 of this specification. The Contractor shall document, and make

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available to the Contract Administrator, any adjustments made to correct noncompliance with the specified tolerances.

.2 The Contractor shall suspend mix production when the 2 test running average for any property is outside of the specified tolerance limits for two consecutive tests. In the event that the Contract Administrator can provide a Quality Assurance test result that confirms a Quality Control test that is outside the specified production limits the contractor shall suspend mix production. Supply shall not commence again until it is demonstrated that corrective action has been taken.

4.4 Quality Assurance Sampling and Testing

- .1 Within this specification, certain requirements, limits and tolerances are specified regarding supplied materials and workmanship. Compliance with these requirements shall be determined from Quality Assurance testing as described in this section.
- .2 Quality Assurance is the responsibility of the Contract Administrator.
- .3 Initial Quality Assurance testing will be undertaken free of cost to the Contractor.
- .4 Quality Assurance sampling and testing is described in Table 4.4.4, Quality Assurance Minimum Testing Requirements.
- .5 Quality Assurance Sampling Procedures:
 - .1 Loose mix samples shall be acquired from the work site in accordance with ASTM D979, specifically Section 5.2.3 Sampling from the Roadway Prior to Compaction.
 - .2 The timing of mix sampling shall be stratified, with each sample representing a similar production quantity.
 - .3 Core locations will be selected using representative random sampling procedures. The lot will be divided into segments meeting or exceeding the minimum frequency in Table 4.4.4 and of approximately equal area. The longitudinal coordinates will have similar spacing on roadway and transverse coordinates will be located using random numbers. Locations will determined in the office prior to sampling, approved by the contract administrator. Core sampling requires written approval by the City of Salmon Arm.
 - .4 Areas within 5.0 m of transverse joints or 0.5 m of a mat edge are excluded from compaction acceptance sampling and testing.

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.6 Reporting Protocols

- .1 Test reporting accuracy shall be as stipulated in the referenced test procedures, including:
 - Gradation to the nearest 0.1%.
 - Binder content to the nearest 0.01%.
 - Air voids and compaction to the nearest 0.1%
 - Thickness to the nearest 1 millimeter (mm)
- .2 Lot averages shall be reported to the same accuracy as test results.
- .7 The Contract Administrator must be able to provide the opportunity for the City of Salmon Arm or their representative to sample paving materials when the City of Salmon Arm deems it necessary.

4.5 Appeal of Quality Assurance Testing Results

.1 General

- .1 The Contractor may appeal the results of acceptance testing for Compaction Standard, Asphalt Content or Air Voids for any lot subject to rejection or unit price reduction. The notice of appeal shall be in writing and submitted to the Contract Administrator within 7 days of receipt of the acceptance testing results.
- .2 Appeals will only be considered if cause can be shown and requirements of Table 4.2.5 have been satisfied.
- .3 Quality Control tests initiated after the Contractor's receipt of the Quality Assurance test results will not be considered when evaluating cause for appeal. Heating and remolding pavement cores for the purpose of determining asphalt content, gradation or Marshall volumetric properties is not acceptable.
- .4 Only Quality Control testing during production for the subject project will be considered when evaluating cause for appeal provided test results are submitted to the Contract Administrator prior to the receipt of the acceptance testing results.
- .5 Laboratories conducting acceptance testing for appeals must be CCIL certified for the subject test procedures.

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- .2 Asphalt Content, Compaction Standard or Air Void Appeals
 - .1 The testing laboratory conducting the project acceptance sampling and testing will routinely retain companion samples sufficient for the determination of asphalt content, maximum relative density and/or Marshall relative density. Minimum companion sample size should be 10 kg for this purpose.
 - .2 For asphalt content, compaction standard or air void (Marshall relative density) appeal testing, the Contractor will have the option for the testing to be done by the testing laboratory undertaking the Quality Assurance testing, or an independent testing laboratory selected by the Contract Administrator. In the event that the independent testing laboratory does not have a valid asphalt correction factor as per <u>ASTM D6307 Asphalt Content of Hot Mix Asphalt by Ignition Oven</u> the lab should have the capability to perform <u>ASTM D2172 Quantitative Extraction of Bitumen From Bituminous Paving Mixtures.</u>
 - .3 The appeal test results will be used for acceptance and unit price adjustment, and shall be binding on both the Owner and the Contractor.
 - .4 If the new asphalt content verifies that any unit price reduction or rejection applies for that Lot, the costs of the appeal sampling and testing will be borne by the Contractor. If the results show that a penalty or rejection no longer applies, the sampling and appeal costs will be the responsibility of the Owner.
 - .5 If the new compaction standard verifies that any unit price reduction or rejection applies for that Lot, the costs of the appeal sampling and testing will be borne by the Contractor. If the results show that a penalty or rejection no longer applies, the sampling and appeal costs will be the responsibility of the Owner.
 - .6 If the new average air void content result verifies that any unit price reduction applies for that Lot, the costs of the appeal testing will be borne by the Contractor. If the results show that a penalty or rejection no longer applies, the sampling and appeal costs will be the responsibility of the Owner.
- .3 Core Density and Thickness Appeals
 - .1 Core density and thickness appeals will only be considered if a case can be made that the stratified random sampling plan was biased or testing was in error.

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5.0 END PRODUCT ACCEPTANCE OR REJECTION

5.1 General

- .1 The Contractor shall provide an end product conforming to the quality and tolerance requirements of this specification. Where no tolerances are specified, the standard of workmanship shall be in accordance with the accepted industry standards and this bylaw.
- .2 It is the paving contractor's responsibility to supply the appropriate materials and workmanship that will furnish a pavement that will last for the intended life span of the roadway. Satisfying the standards in this specification does not absolve the paving contractor's responsibility for a pavement that is prematurely aging or deteriorating as a result of substandard materials or poor workmanship
- .3 Acceptance of any Lot at full payment will occur if there are no obvious defects and the Lot mean results for asphalt content, pavement density, air voids and thickness meet or exceed the specified tolerances.
- .4 Unit price reductions will only be applied on the basis on full Quality Assurance testing in accordance with Table 4.4.4. Consecutive lot averages during a production period may be used to determine payment adjustments at the discretion of the Contract Administrator.
- .5 Any developer or representative who provides a letter of professional assurance for asphalt paving must satisfy the requirements in this specification. Quality control and quality assurance documentation must be available upon request. Companion samples taken as part of quality assurance testing must be available upon request by the City Representative. Any material or workmanship deficiencies are subject to either a payment adjustment to be paid to the City of Salmon Arm or removal and replacement. Payment adjustments will be determined by the guidelines in this specification. Removal and replacement will be at the discretion of the City of Salmon Arm. Assurances by the developer's engineer of record will be considered but not definitive in the acceptance of the final asphalt product.

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5.2 Asphalt Content

- .1 For full payment, the Lot Mean Asphalt Content Must be within ± 0.3% of the approved Job Mix Formula value, as specified in Section 2.2.
- .2 Payment adjustment for asphalt content is as follows:

Asphalt Content Variation from JMF Value (%)	Payment Adjustment Factor
± 0.30 or less	1.00
± 0.31 to ± 0.50	As per Chart A
Greater than ±0.50	Reject (Note 1)

Note 1: Subject to removal and replacement at the discretion of the Contract Administrator.

5.3 Pavement Compaction

- .1 For full payment, the Lot Mean Pavement Compaction must be equal to or greater than 97 % of the Lot Mean Marshall relative density.
- .2 Where an individual core has a core density less than 95 percent of the Marshall relative density then additional cores can be taken in the proximity of the defective core to determine the extent of the affected area. Additional coring shall be at the discretion of the Contract Administrator and the costs shall be borne by the Contractor. Possible scenarios where and individual core density is less than 95% of Marshall relative density are as follows:
 - .1 No additional coring is done and the core is included in the calculation of average core density for that lot.
 - .2 Additional coring in the proximity of the subject core that shows that the core is an anomaly. The core can then be removed from the payment adjustment calculation for that lot.
 - .3 Additional coring shows the extent of the affected paved area and is subsequently rejected.

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.3 Payment adjustment for pavement compaction is as follows:

Pavement Compaction % of Marshall Relative Density	Payment Adjustment Factor
97.0 or more	1.00
95.0 to 97.0	As per Chart B
Less than 95.0	Reject (Note 1)

Note 1: Subject to removal and replacement at the discretion of the Contract Administrator.

5.4 Air Void Content

- .1 For full payment, the Lot Mean Air Voids must be within ±1.0 % of the Job Mix Formula value as specified in Section 2.2.
- .2 Payment adjustment for air void content is as follows:

Air Void Content % Variation from JMF Value	Payment Adjustment Factor
Less than 1.0	1.00
1.0 to 2.0	As per Chart C
Greater than 2.0 (Lower Lifts)	0.8 (Note 1)
Greater than 2.0 (Upper Lifts)	0.6 (Note 1)

Note 1: Subject to removal and replacement at the discretion of the Contract Administrator.

5.5 Thickness (New Construction and Top Lift Only)

- .1 Pavement of any type found to be deficient in thickness by more than 13.0 mm shall be removed and replaced by pavement of specified thickness, at the Contractor's expense.
- .2 The Lot Mean Thickness for any Lot will be determined on the basis of the acceptance cores described in Table 4.4.4. Core thickness shall be determined in accordance with ASTM D3549.
- .3 If the deficiency of any individual core exceeds 13 mm, additional cores may be extracted in the proximity to the location of the core of excessive deficiency, to identify the extremities of the pavement area subject to be removed and replaced. The Contractor shall pay for such additional coring.

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- .4 For full payment, the Lot Mean Thickness must be equal to, or greater than, the specified thickness.
- .5 Payment adjustment for thickness is as follows:

	Payment Adjustment Factor (Note 1)		
Average Thickness Compared to Specified Thickness	Total Thickness (Single or Multiple Lifts)	Top Lift Thickness (Multiple Lifts)	
Compliant or Greater	1.00	1.00	
1mm to 13mm Deficient	As per Chart D	As per Chart D	
More than 13mm Deficient	Reject (Note 2)	Reject (Note 2)	

Note 1: A single Thickness Payment Adjustment Factor shall be applied, Total Thickness or Top Lift Thickness, whichever results in the greatest adjustment.

Note 2: Subject to removal and replacement at the discretion of the Contract Administrator.

5.6 Smoothness

- .1 The completed asphalt concrete surface shall be true to the dimensional and tolerance requirements of the specifications and drawings. Unless detailed otherwise in the contract documents, the tolerances in both profile and crown are:
 - .1 Base Course 10 mm in 3.0 m
 - .2 Surface Course 5 mm in 3.0 m
- .2 When deviations in excess of the above tolerances are found, the pavement surface shall be corrected by methods satisfactory to the Contract Administrator. Correction of defects shall be carried out until there are no deviations anywhere greater than the allowable tolerances.

5.7 Segregation

- .1 The finished surface shall have a uniform texture and be free of segregated areas.

 A segregated area is defined as an area of the pavement where the texture differs visually from the texture of the surrounding pavement.
- .2 All segregation will be evaluated by the Contract Administrator to determine repair requirements.

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- .3 The severity of segregation will be rated as follows:
 - .1 Slight The matrix of asphalt cement and fine aggregate is in place between the coarse aggregate particles, however there is more stone in comparison to the surrounding acceptable mix.
 - .2 Moderate Significantly more stone than the surrounding mix, and exhibit a lack of surrounding matrix.
 - .3 Severe Appears as an area of very stony mix, stone against stone, with very little or no matrix.
- .4 Segregated areas shall be repaired by the Contractor as directed by the Contract Administrator. The following methods of repair are identified.
 - .1 Slight Squeegee asphalt to completely fill the surface voids.
 - .2 Moderate slurry seal for full mat width.
 - .3 Severe removal and replacement or overlay.
- .5 All repairs shall be regular in shape and finished using good workmanship practices to provide an appearance suitable to the Contract Administrator.
- Any other methods of repair proposed by the Contractor will be subject to the approval of the Contract Administrator.
- .7 Repairs will be carried out by the Contractor at their expense.

6.0 MEASUREMENT AND PAYMENT

6.1 Measurement

- .1 Asphalt Concrete supplied will be measured in square metres or tonnes of material placed, as detailed in the Tender Form.
- .2 The Unit Price for Asphalt Concrete shall be full compensation for all materials, labour, tools, equipment and incidentals necessary to complete the work in accordance with these specifications.
- .3 The material shall be scaled and recorded by the Contractor on duplicate weight slips. Weight slips must be supplied at the time of delivery and a copy supplied to the Contract Administrator.
- .4 The weight scale shall be inspected and certified by Weights and Measures Inspection Services of the Federal Department of Consumer and Corporate Affairs, at the Contractors' expense and as often as the Contract Administrator may direct.

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6.2 Payment Adjustment

.1 The Unit Price applicable to each Lot quantity of asphalt concrete will be calculated as follows:

LOT UNIT PRICE = CONTRACT UNIT PRICE x PA_{AC} x PA_{COM} x PA_{AV} x PA_T

Where:

 PA_{AC} = Asphalt Content Payment Adjustment PA_{COM} = Compaction Payment Adjustment PA_{AV} = Air Void Payment Adjustment PA_{T} = Thickness Payment Adjustment

Table 4.2.4 – Pre-production Quality Control Minimum Requirements

Asphalt Cement Certification	-	Once per year or for change in supplier.
Aggregate Physical Properties	-	Once per year, or for change in source.
Crushed Coarse Aggregate Gradation Analysis and Fracture Content	ASTM C136 ASTM D5821	One for every 1000 tonne of each class
Manufactured Sand Aggregate Gradation	ASTM C136 ASTM C117	of material processed into stockpile, or one analysis for each material every
Natural Fine Aggregate Gradation	ASTM C136 ASTM C117	production day when production rate is less than 1000 tonne.
Blend Sand Aggregate Gradation	ASTM C136 ASTM C117	_
Reclaimed Asphalt Pavement (RAP) Asphalt Content and Extracted Aggregate Gradation	ASTM D2172 ASTM C136 ASTM C117	One for each 1000 tonne delivered to stockpile or one for each location when delivery rate is less than 1000 tonne.
Trial Mix Design by Marshall Method	Asphalt Institute MS-2	One per mix type every production year, or as required for a change in asphalt cement supply, aggregate gradation or aggregate source. See Note 1.
Plant Calibration	-	As required

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Table 4.2.5 – Post Production Quality Control Minimum Requirements

Hot Mix Asphalt Analysis (including Asphalt Content, Aggregate Gradation, Marshall Bulk Relative Density and Void Properties)	ASTM D6307 ASTM C117 ASTM C136 ASTM D3203	One for every 500 tonne of each mix type supplied under this specification. See Note 1.
Quality Control Charts (including 2 test running average for Binder Content, Aggregate Gradation, Marshall Bulk Relative Density and Void Properties).	-	For each hot mix analysis. Test results and updated 2 test running average to be submitted to the Contract Administrator as they become available. See Note 2.
Hot Mix Asphalt Temperature	-	Minimum frequency not specified.
Cold Feed Aggregate Analysis	ASTM C136 ASTM C117	Minimum frequency not specified.
Maximum Relative Density of Hot Mix Asphalt	ASTM D2041	Minimum frequency not specified.
Compaction Monitoring (Core or Nuclear Density)	ASTM D2726 ASTM D2950	Minimum frequency not specified. See Note 3.

Note 1: Where an individual test indicates non-compliance, another test shall be initiated immediately.

Note 2: In instances where the contractor is paving on consecutive days, asphalt content and air voids shall be submitted to the Contract Administrator within 24hrs of sampling.

Note 3: Coring is subject to approval by the Contract Administrator.

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Table 4.4.4 – Quality Assurance Minimum Requirements

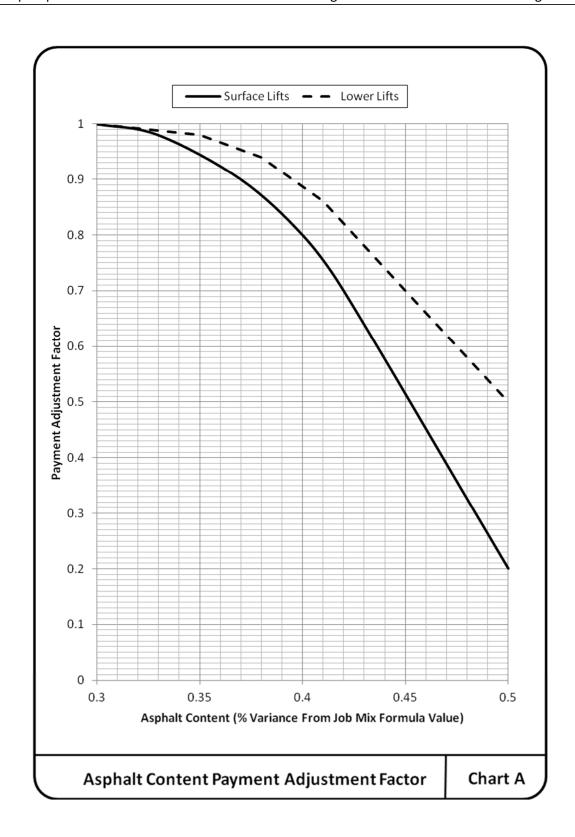
Hot Mix Asphalt Analysis (including Binder Content, Aggregate Gradation, Marshall Bulk Relative Density, Maximum Relative Density, Marshall Stability and Flow and Void Properties)	ASTM D6307 ASTM C117 ASTM C136 ASTM D3203, ASTM D6927, ASTM D2041	For each mix type one test per lot or one test per 4.0 hrs of continuous paving, whichever is greater. See Note 1.
Compaction Testing (Core Density) and Thickness Determination	ASTM D2726 ASTM D3549	For each mix type three tests per complete lot. See Note 2.
Hot Mix Asphalt Temperature	-	No minimum frequency.

Note 1: The Contract Administrator may, at their discretion, acquire the minimum number of mix samples, but reduce the number of tests to a minimum of one per lot. Should non-compliance be indicated by the sample(s) tested, the Contract Administrator reserves the option to test the remaining samples. The lot boundaries should be adjusted so the consecutive test can be a part of the same lot.

Note 2: For partial lots where total paving is greater than 1500 m² one test per 500 m² should be completed. When total paving area is less than 1500 m² a minimum of 3 tests should be completed. The number of tests required for small paving areas less than 500 m² will be at the discretion of the contract administrator, it is anticipated that at least 2 cores would be taken for payment adjustment purposes.

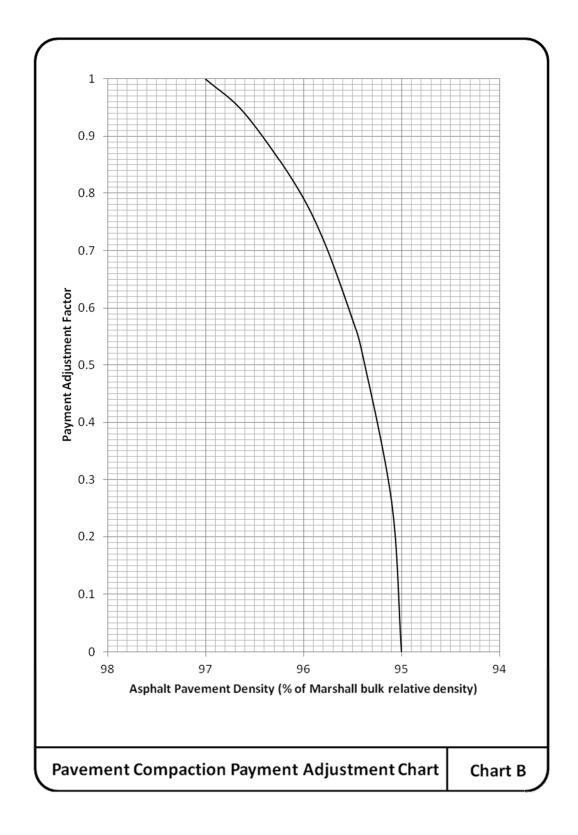
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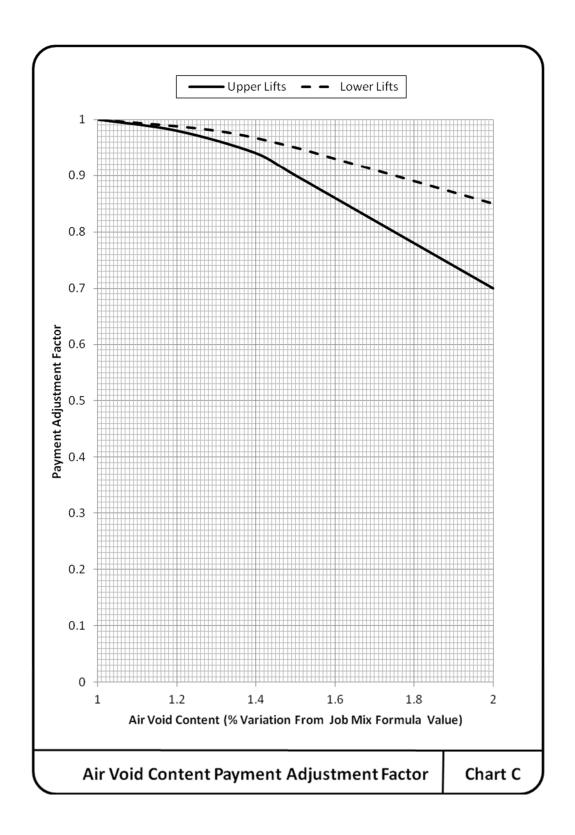
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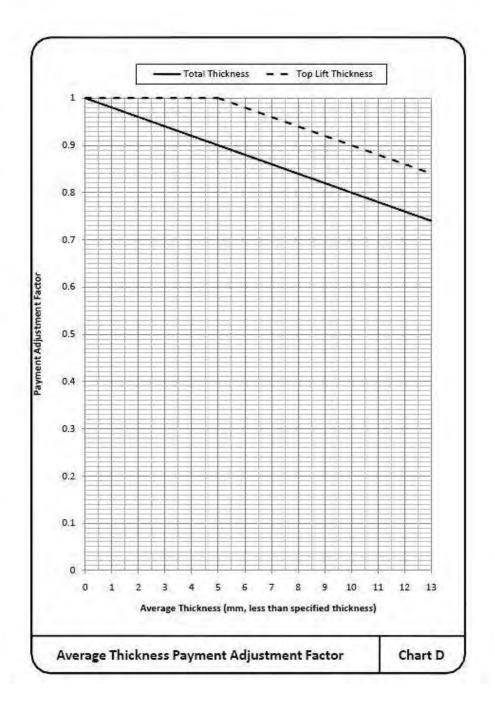


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1.7 Inspection and Testing

.2

Add:

Visual Inspection: Prior to installation, all pavers shall be sound and free from defects that can interfere with proper placing of the pavers or impair the serviceability of the pavement. Minor cracks incidental to the usual methods of manufacture or minor chipping resulting from customary methods of handling in shipment and delivery, shall not be deemed grounds for rejection.

2.1 Materials

Replace: .4 Granular laying course:

.1 Bedding Sand shall consist of hard, durable crushed stone particles, free from clay lumps, cementation, organic material, frozen material and other deleterious materials and shall comply with ASTM C33 or CSA CAN/CSA A23.1.1-M90 with the following grading limits:

CAN/CSA	CAN/CSA-A23.1-M90		ASTM C33		
Sieve Size	% Passing	Sieve Size	% Passing		
100 mm	100	3/8 in.	100		
5 mm	95 – 100	4	95 – 100		
2.5 mm	80 – 100	8	80 – 100		
1.25 mm	50 – 90	16	50 – 85		
630 ųm	25 – 65	30	25 – 60		
315 ųm	10 – 35	50	10 – 30		
160 ųm	2 – 10	100	2 – 10		

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.2 Jointing sand shall be free of soluble salts or contaminants that can contribute to efflorescence and shall comply with ASTM C144, CSA A82.56M-1976 – Aggregate for Masonry Mortar with the following grading limits.

CAN/CSA-A23.1-M90		ASTM C144	
Sieve Size	% Passing	Sieve Size	% Passing
5 mm	100	4	100
2.5 mm	95 – 100	8	95 – 100
1.25 mm	60 – 100	16	70 – 100
600 ųm	35 – 80	30	40 – 75
315 ųm	15 – 50	50	10 – 35
160 ųm	2 – 15	100	2 – 15

Replace: .5 Unit Pavers:

.1 Concrete Pavers shall be 225 mm x 112.5 (8-7/8"x 4-7/16") face dimension x 60 mm (2-3/8") thickness, complete with spacer ribs. Minimum cement content of 325 kg./m³. Coloured pavers with min. 10 kg./m³ of pigment. Allow 3 colours, 40% red; 30% salmon; 30% grey. Final selection by architect from manufacturer's full range of colours.

.2 Physical Requirements

.1 Comprehensive Strength: At the time of delivery to the work site, the average compressive strength of the test samples of pavers shall not be less than 60 Mpa (8500 psi) with no individual unit less than 55 Mpa (8,000 psi) and the average compressive strength of Normal pavers shall not be less than 55 Mpa (8,000 psi) with no individual unit less than 50 Mpa (7,200). Sample and test units in accordance with ATM Method C140.

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- .2 Absorption: The average water absorption with ATM Method C140, of the test samples shall not be greater than 4.5% with no individual pave greater than 6% for DURA-FINISH pavers and not greater than 5% with no individual paver greater than 7% for Normal pavers.
- .3 Resistance to Freezing and Thawing: Pavers shall have a dry mass loss not more than 0.5% and Normal pavers not more than 1% dry mass loss for any individual paver when subjected to 50 cycles of freezing and thawing in accordance with Section 8 of ASTM Method C67.
- .4 Abrasion Resistance: Pavers shall have a volume loss of less than 6 cm3 per 50m2 (4 cu.in. per 8 sq. in.) and the average thickness loss shall not be more than 2 mm (5/64"), when tested in accordance with ASTM Method C418. Normal pavers shall have a volume loss of less than 15 cm3 per 50 m2 (1 cu. In per 8 sq. in.) and the thickness loss shall not be more than 3 mm (1/8") when tested in accordance with ASTM Method C418.
- .5 Tolerance in Dimensions: Length or widths of units shall not differ by more than $\pm 1,5$ nn ($\pm 1/16$ ") from Westcon's stated manufacturing dimension. Thickness of pavers shall not vary by more than ± 3 mm ($\pm 1/8$ ") from Westcon's stated dimension.

3.4 Granular Laying Course

Add:

- .2 The bedding sand shall be spread in a uniform layer. Under no circumstances shall the bedding sand layer exceed 40 mm (1-1/2") following compaction.
- .3 The sand shall be maintained at a uniform density. Screeded sand left overnight subjected to rain shall be rechecked for level and raked and re-screeded where necessary.
- .4 Do not allow any traffic on the bedding sand prior to paver installation.
- .5 Bedding sand shall not be used for correcting out of tolerance base.

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3.5 Unit Paving

Replace: .2 Install unit paving true to grade, in location, layout and pattern as

shown on Contract Drawings. Surface levels of the completed

pavement at drainage outlets and curbs shall be left 10mm (3/8") high

to ensure positive drainage.

Replace: .3 Where required, cut units accurately without damaging edges. No

pieces shall be smaller than 1/4 of a full paver.

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1 GENERAL

Section 32 91 22S refers to those portions of the work that are unique to the use of soil cells for the planting of trees and landscaping in pedestrian and vehicular areas. This section must be referenced to and interpreted simultaneously with all other sections pertinent to the works described herein.

1.1 Related Work

.1	Concrete Walks, Curbs and Gutters	Section 03 30 20
.2	Cast-in-Place Concrete	Section 03 30 53
.3	Aggregates and Granular Materials	Section 31 05 17
.4	Excavation, Trenching and Backfilling	Section 31 23 01
.5	Roadway Excavation, Embankment and Compaction	on Section 31 24 13
.6	Geosynthetics	Section 31 32 19
.7	Granular Base	Section 32 11 23
.8	Irrigation System	Section 32 94 01S
.9	Topsoil and Finish Grading	Section 32 91 21

1.2 Site Conditions

.1 Inspect all areas to receive soil cells prior to placement.

.10 Planting of Trees, Shrubs and Ground Covers

- .2 Before proceeding with work check and verify dimensions, quantities, grade elevations, drainage, compaction and contamination.
- .3 Report defects in dimensions, quantities, grade elevations, drainage, compaction and contamination to Contract Administrator immediately and make good to satisfaction of Contract Administrator prior to construction of soil cell system.

1.3 Delivery, Storage and Handling

- .1 Deliver packaged materials in original, unopened containers showing weight, certified analysis and name and address of manufacturer.
- .2 Do not handle, deliver or place bulk materials in frozen, wet or muddy conditions.
- .3 Deliver materials to site at or near optimum compaction moisture content.
- .4 Protect excavation from freezing conditions, accumulation of water and contamination until placement of soil cells, growing medium, geotextile and root barrier. Maintain protection of excavation and placed material until installation of hard surfaced roadway or pedestrian surface above.
- .5 Growing medium, granular base and backfill that is excessively wet, segregated or contaminated will be rejected. Remove rejected material from site and replace with approved material at Contractor's expense.

1.4 Layout and Elevation Control

1 Provide layout and elevation control during installation of soil cells. Utilize grade stakes, benchmarks, surveying equipment and other

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<u>Vlunici</u>	pal Specifications		Soil Cells means and methods to ensure that layout a layout and elevations shown on Contract Dra	
1.5	Scheduling	.1	Schedule installation of soil cells after all affect and utility work in the area have been installed	•
		.2	Coordinate schedule with scheduling of other	trades on site.
1.6	Measurement and Payment	.1	Payment for soil cells will be made separately of soil cell assembly, and includes all soil of medium, site preparation, placement, geogrid of work and incidentals. Payment will be assemblies comprised of one, two or three la	cell components, growi and geotextile, protection on made separately
		.2	Payment for excavation, backfilling and embarmade under Section 31 23 01 - Excavating, or Section 31 24 13 - Roadway Excava Compaction, as provided in the Schedule of Compaction.	Trenching and Backfilli ation, Embankment a
		.3	Payment for placement and compaction of grunder Section 32 11 23 - Granular Base, as of Quantities and Unit Prices.	
		.4	Payment for pedestrian or vehicle surfaces abunder separate sections as appropriate.	oove soil cells will be ma
		.5	Payment for tree planting, associated non-stroot barrier, tree grates and concrete surrous separate sections as appropriate.	•
1.7	Inspection and Testing	.1	Refer to General Conditions, Clause 4.12, Ins	spections and Testing.
		.2	Refer to Section 32 91 21 - Topsoil and Finis	h Grading - 1.3 and 1.5
2.0	PRODUCTS			
2.1	Soil Cell	.1	Soil cell to be fiberglass-reinforced polyprop materials, designed to support sidewalk loads growing medium for the purpose of growing tre filtration, detention and retention.	s, designed to be filled w
		.2	Acceptable soil cell systems are listed in the	approved materials list.
2.2	Anchor Spike	.1	Galvanized steel spike with spiral twist, 8m length.	nm diameter and 250m
2.3	Drainage Pipe	.1	Drainage pipe to be perforated drain pipe per Sewers - 2.7, as specified on Drawings.	Section 33 40 01 - Sto
		.2	Fittings to be compatible with specified pipe at	nd by same manufacture
		.3	PVC pipe solvent and primer combinations s by manufacturer and suitable for use with application.	

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2.4	Geogrid	.1	Geogrid to be high molecular weight high tenacity polyester multifilament yarns woven in tension and polymer-coated, with the following ASTM D 6637 mechanical properties: .1 Tensile strength: 29.2 kN/m .2 Creep reduced strength: 18.5 kN/m .3 Long term allowable design load: 18.5 kN/m .4 Grid aperture size (machine direction): 22.2mm .5 Grid aperture size: 25.4mm .6 Mass /unit area (ASTM D 5261): 254.3 g/m2
2.5	Geotextile	.1	Geotextile to be non woven polypropylene fabric, with the following properties: .1 Grab tensile strength: 167.8 kg .2 Grab tensile elongation: 50% .3 Mullen burst strength: 2,620 kPa .4 Puncture strength: 58.97 kg .5 Apparent opening size: US sieve 80 (0.180mm) .6 Water flow rate: 3,870.8 l/min/m2 .7 Minimum roll width: 3600 mm
2.6	Granular Base	.1	Granular base and subbase to be as shown on Contract Drawings and to conform to Section 32 11 23 - Granular Base.
2.7	Backfill	.1	Backfill material adjacent to soil cells to be as shown on Contract Drawings.
2.8	Growing Medium	.1	Growing medium to be as shown on Contract Drawings and to conform to Section 32 91 21– Topsoil and Finish Grading.
3.0	EXECUTION		
3.1	Soil Cell Frame	.1	Confirm that granular base meets compaction requirements of 95% of maximum dry density in accordance with ASTM D698 Standard Proctor method prior to placement of soil cell frame units. Grade sub-base surface on a plane parallel to the proposed finish grade above.
		.2	Identify tree openings, utility routes and edges of hard surfaces above soil cells on granular base using spiked string and/or spray paint.
		.3	Confirm that width and length of excavation are a minimum of 150mm beyond the edges of the Soil Cells. Layout location of all drain lines. Do not locate drain lines within 150mm of any Soil Cell post. Provide field engineering when drain lines are being installed to assure that the slope on all drains is 1% minimum towards intended outfalls. Place frame units by hand.
		.4	Place first layer of frame units on prepared and approved granular base and geotextile. Work away from tree and utility openings. Place frame units no less than 25mm apart and no more than 75mm apart.

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- .5 Verify that horizontal and vertical position of frame units are consistent with required locations and dimensions of tree and utility openings, paving edges, surfaces and other structures to be constructed above soil cells. Report conflicts to Contract Administrator and make adjustments as necessary.
- .6 Ensure that each frame unit sits firmly on granular base. Ensure frames do not rock or bend over any stone or other obstruction and do not bend into dips in base.
- .7 Check each frame unit for damage prior to placing in excavation. Do not use frame units that are cracked or chipped
- .8 Secure soil cell to granular base with four anchor spikes driven through moulded holes in base of frame unit
- .9 For applications where soil cells are installed over waterproofed structures, develop a spacing system consistent with requirements of waterproofing system and do not use anchor spikes that will come within 150mm of any waterproofing material. Submit shop drawing of spacing and anchoring system for approval by Contract Administrator.
- .10 Do not walk on frame units.
- .11 Install next layer of frame units on top of previous layer. Build layers as stacks of frame units set one directly over the other. Do not set frame unit half on one unit below and half on another unit.
- .12 Register each upper frame unit on top of lower frame unit post. Ensure contact points are free of dirt, mud and debris prior to placement. Ensure each upper unit is solidly seated on unit below. Rotate each frame registration arrow in the opposite direction from frame unit below to ensure connector tabs firmly connect.
- .13 Install no more than two layers of frame units before installation of growing medium and backfill.

3.2 Modified Soil Cell Frame

- .1 Install modified frame unit on top of frame unit prior to installation of growing medium and backfill.
- .2 Modified frame unit is required only during installation and compaction of growing medium and backfill.
- .3 Do not walk on modified frame units.
- .4 Remove modified frame unit prior to installation of deck unit and as installation of growing medium and backfill progresses across soil cell framework.
- .5 Remove modified frame unit prior to installation of deck unit and as installation of growing medium and backfill progresses across soil cell framework.
- .6 Place and remove modified frame units by hand.

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3.3 Geogrid

- .1 Install geogrid curtain prior to installation of growing medium and backfill.
- .2 Geogrid curtain is required between edge of soil cell and any backfill or granular base beyond extent of soil cell framework that will support pedestrian or vehicular paving.
- .3 Install geogrid curtain where required. Do not install geogrid curtain between edge of soil cell and any planting area or tree opening adjacent to soil cell.
- .4 Pre-cut geogrid to allow for 150mm minimum underlap below backfill, and 300mm minimum overlap above soil cell deck.
- .5 Where soil cell layout causes a change of direction in plane of geogrid, slice top and bottom flaps of geogrid and fold so it lies flat on top of soil cell deck and granular base course along both planes.
- .6 Provide 300mm minimum overlap between different sheets of geogrid.
- .7 Secure geogrid to frame units and deck units with 4.5mm x 300mm plastic zip ties in locations recommended by manufacturer.
- .8 After deck unit is secured in place fold 300mm overlap of geogrid over top of unit.

3.4 Growing Medium and Backfill

- .1 Install root barrier as shown on Contract Drawings. Protect root barrier from damage and displacement during installation of growing medium and backfill.
- .2 Install growing medium and backfill as indicated on Contract Drawings. The process of installation requires that these two materials be installed and compacted together in alternating lifts to achieve correct compaction relationships between the materials.
- .3 Place growing medium in soil cell framework and spread by hand or hand tool through each soil cell in a maximum 200mm lift. Work soil under horizontal beams of soil cell frame and utility conduit to eliminate air pockets there. Ensure equipment bucket does not contact soil cell framework. Hold plywood sheet against geogrid during placement and compaction of growing medium to protect geogrid and maintain consistent separation of materials.
- .4 Finalize installation of utility conduit, drainage pipes and irrigation where shown on Contract Drawings.
- .5 Compact growing medium lift by stepping on entire exposed surface of growing medium. Do not step on frame units. Ensure there is a minimum of 250mm of growing medium over horizontal beams of frame units before beginning compaction. Leave top 50mm of frame unit exposed above growing medium to allow placement of next layer of frame units.
- .6 Compact growing medium to 85% of standard proctor density. Remove growing medium that is over compacted and reinstall.

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- .7 Place backfill to 95% of maximum dry density in space between geogrid and sides of excavation and spread by hand adjacent to soil cell framework to provide maximum 200nn lift. Ensure geogrid under lap lays flat under backfill. Ensure equipment bucket does not contact soil cell framework. Hold plywood sheet against geogrid during placement and compaction of backfill to protect geogrid and maintain consistent separation of materials. Do not place backfill material in tree or planting bed opening.
- .8 Compact backfill per Contract Documents. Ensure compaction equipment does not contact soil cell frame or deck.
- .9 Repeat placement and compaction of growing medium and backfill in lifts to top of topmost frame unit. Finish grade of growing medium to be 25mm below bottom of deck unit, except as indicated otherwise on Contract Drawings.
- .10 Do not place final lift of backfill until adjacent deck unit is secured in place. Then install and compact backfill flush with soil cell deck. Ensure compaction equipment does not contact deck unit.
- .11 Maintain modified frame unit in place until installation of deck unit.

3.5 Geotextile

- .1 Supply and install geotextile under soil cell system as shown on Contract Drawings and per Section –31 32 19 Geosynthetics.
- .2 Supply and install geotextile on soil cell deck as shown on Contract Drawings and per Section 31 32 19 Geosynthetics
- .3 Place geotextile over top of soil cell deck and where indicated on Drawings.
- .4 Extend geotextile minimum 450mm beyond outside edge of excavation. Overlap geotextile joints minimum 450mm. Cut geotextile to provide minimum 200mm overlap of tree, planting and utility openings.
- .5 Repair cut or damaged geotextile with a second piece of geotextile prior to placement of granular base. Overlap edges of cut or damaged area with second piece by a minimum of 300mm.

3.6 Granular Base

- .1 Supply and install granular sub-base course under soil cell system as shown on Contract Drawings and as specified in Section 32 11 23 Granular Base.
- .2 Supply and install aggregate base course above soil cell system as shown on Contract Drawings and as specified in Section 32 11 23 -Granular Base.
- .3 Maximum tolerance for deviations in finished surface of granular base for soil cell system is 6mm over a 1200mm distance. Adjust granular base under each frame unit to provide a continuous solid base of support to required grade elevation.
- .4 Install granular base course on geotextile immediately after installation of geotextile.

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- .5 Place granular base on soil cell system from one side of soil cell deck to other, to ensure geotextile and granular base conforms to cell deck contours.
- .6 Do not place or spread granular base in several positions at same time.
- .7 Load granular base onto soil cell system from equipment located outside limits of soil cell excavated area. Do not drive vehicles or operate equipment directly on top of soil cell deck, geotextile or granular base. Do not drive vehicles or operate equipment greater than 450kg directly on granular base over soil cell deck.
- .8 Spread granular base on soil cell system using hand tools or by light use of equipment bucket.
- .9 Compact granular base in lifts not to exceed 150mm, to 95% of maximum dry density. Compact granular base on top of soil cell system using walk behind type vibratory plate tamper, vibratory roller or jumping compacter having a maximum weight of 450kg.
- .10 For alternate method of placing and compacting granular base on top of soil cell system (e.g. for large area, small area, area of difficult access) submit shop drawing of proposed equipment and procedure to Contract Administration for approval.

3.7 Protection of Work

- .1 Protect soil cell system, geotextile and granular base from vehicles, equipment, other materials and excessive moisture.
- .2 Use temporary fencing or hoarding to keep vehicles and equipment away off soil cell area until final surface materials are placed.

3.8 Clean Up

.1 Dispose of surplus materials and all construction debris off site.

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1.0	GENERAL	.1	Section 32 94 01S refers to those portion unique to the complete installation underground irrigation system, inclupreparatory work and all electrical, connections, and maintenance work period. This section must be referer simultaneously with all other sections processing the section of the sections of the section of the sections of the section of the sections of the section of the sections of the section of	of a fully automatic uding all necessary wiring and plumbing during the guarantee need and interpreted
1.1	Related Work	.1	Project Record Documents 01	Section 01 33
		.2	Cast-in-Place Concrete	Section 03 30 53
		.3	Precast Concrete 01	Section 03 40
		.4	Aggregates and Granular Materials 17	Section 31 05
		.5	Topsoil and Finish Grading 21	Section 32 91
		.6	Hydraulic Seeding	Section 32 92 19
		.7	Seeding	Section 32 92 20
		.8	Sodding	Section 32 92 23
		.9	Planting of Trees, Shrubs and Ground Covers	Section 32 93 01
1.2	References	.1	The abbreviated standard specifications fabrication and supply, referred herein, References – Section 01 42 00.	
1.3	Codes and Permits	.1	Perform all work of this section in strice municipal, provincial, or federal guidelicodes. Requirements of these specific therewith, exceeding code requirements	nes, regulations, and cations not conflicting
		.2	Be responsible for obtaining all neo approvals required to undertake and include costs for required permits and prices.	complete the work.
1.4	Quality Assurance	.1	Be a member in good standing of organizations: .1 Irrigation Industry Association of Briti.2 The Irrigation Association (IA) Provide documented proof of 5 years of good standing membership in one of the within 5 days of receipt of Notice to Proceed.	sh Columbia (IIABC) of industry experience, he above associations

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- .2 Be certified, or hire subcontractor who is certified, as a Field Safety Representative – Class LO, Low Energy Systems and registered with the British Columbia Safety Authority as an Electrical Contractor. Provide documented proof of same within 5 days of receipt of Notice to Proceed.
- .3 If the design involves HPDE, be certified in Plastic Pipe Fusion by the British Columbia Institute of Technology or an approved equivalent to fuse and install High Density Polyethylene Pipe. Provide documented proof of same within 5 days of receipt of Notice to Proceed.
- .4 All electrical components or products specified or used in construction of the proposed irrigation system must be CSA approved and installed in accordance with all local, provincial, and national electrical codes.
- .5 Install all irrigation components per manufacturer's recommendations, instructions and specifications. If unsure on how to install or use a specific product consult manufacturer to ensure proper installation and operation.
- .6 All materials to be new and without flaws.
- .7 All equipment specified and installed from various manufacturers to be compatible with existing equipment and other products specified for the irrigation system.
- .8 The completed system to efficiently and uniformly irrigate all areas and perform as required by these specifications.

1.5 Scheduling and Shop Drawings

- .1 Ensure that sequencing of irrigation work is carried out in coordination with work of other trades and that sleeves, wire, pipes, valves and other equipment are installed when appropriate.
- .2 Plan, schedule and execute work to ensure a supply of water is available for landscape establishment and maintenance purposes at the appropriate time, in adequate amounts, and operating at design pressures to ensure satisfactory irrigation of all landscaped areas.

1.6 Substitutions

- .1 Where materials are specified by brand name and model number, such specifications will be deemed to facilitate a description of the materials and material quality and establish a standard for performance and quality.
- .2 Purchase or installation of materials that are not specified will not be paid for unless:
 - .1 The materials have been reviewed and approved by Contract Administrator and City of Salmon Arm as an Approved Equal as per Section 7.0, Instructions to Tenderers, or

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- .2 The materials have been reviewed and approved by Contract Administrator and City of Salmon Arm as a Change Order, per Section 7.3 of the General Conditions
- .3 Installation of materials that are not specified or are not an Approved Equal to be removed and replaced with the specified material at Contractor's expense.
- .4 Shop Drawings of irrigation system are required for any and all aspects of irrigation system not included in the Drawings. This includes but is not limited to:
 - .1 Revisions to irrigation system design not previously addressed in Contract Documents, including revisions to irrigation system design which markedly alter the original design, as determined by the City Engineer.
 - .2 Tasks identified in project specifications as requiring a Shop Drawing
- .5 A revised Irrigation Design Report shall be required in tandem with Shop Drawings for revisions that markedly alter the original design, as determined by the City Engineer
- .6 Submit Shop Drawing and revised Irrigation Design Report to Contract Administrator and City of Salmon Arm, for review, comment and approval or rejection.

1.7 Irrigation Record .1 Drawings

- 1 Further to Schedule 3, maintain accurate scaled records of installed irrigation system and its components on a marked-up set of Contract Drawings on a daily basis during construction. Show all deviations from Contract Drawings. Make marked-up Contract Drawings available to Contract Administrator upon request.
- .2 Retain a qualified survey instrument operator to record exact location of all irrigation components as installed, including but not limited to:
 - .1 All irrigation surface components: e.g. sprinklers, valve locations, grounding point, controller components, wire splice boxes, valve boxes, vaults
 - .2 All irrigation sub-surface components: e..g mainlines, laterals, pipe tees, ells, thrust blocks, pipe size changes, grounding components, sleeve ends
- .3 Prepare surveyed Record Drawings. Clearly and legibly show all components of the irrigation system as installed. Identify each zone numerically, complete with precipitation rate and USgpm per zone. Prepare Record Drawings in digital (AutoCAD 2008 *.dwg and Adobe *.pdf) and hard copy formats

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1.8 Operating Manual

- .1 Prepare a complete Operating Manual for installed irrigation system. Content of Operating Manual to include:
 - .1 Irrigation Design Report
 - .2 Equipment operating instructions
 - .3 Maintenance instructions including winterization and spring start up procedures
 - .4 Product literature
 - .5 Parts lists
 - .6 Irrigation watering schedule
 - .7 Two (2) sets of all keys and specialized tools or equipment required for commissioning, operation or maintenance of irrigation system
 - .8 Signed copies of irrigation inspection reports and test results
 - .9 Copies of plumbing permit, electrical permit and low voltage certification
 - .10 Product warranty documentation for all controllers, meters, backflow prevention devices, valves, filters, sensors, electronic components and related irrigation components. Date the warranties with the date of Substantial Performance
 - .11 Written guarantee

1.9 Submittals

- .1 Submit complete set of Record Drawings to Contract Administrator prior to issuance of Certificate of Substantial Performance. Submit digital and hard copy Record Drawings in full size (22x34") and reduced (11x17") sizes, including one (1) laminated, 11"x17" copy of Record Drawings in controller cabinet.
- .2 Submit complete Operating Manual to Contract Administrator prior to issuance of Certificate of Substantial Performance.

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1.10 Measurement for .1 Payment

- Supply and installation of water service will be measured as a lump sum. The work includes:
 - .1 Permits and fees
 - .2 Supply, installation, testing and adjustment of the connection to water source and booster pump if required
 - .3 Master valve
 - .4 Water meter
 - .5 Flow sensor
 - .6 Backflow prevention device
 - .7 Blowout assembly
 - .8 Pressure reducing valve
 - .9 Filters
 - .10 Vaults, valve boxes & lids
 - .11 Fittings
 - .12 Excavation, trenching, sleeves, backfill and restoration
 - .13 All incidentals necessary for the proper installation and operation of a complete water service to the irrigation system
- .2 Supply and installation of irrigation control system will be measured as a lump sum. The work includes
 - .1 Permits & fees
 - .2 Supply, installation, testing, programming, and adjustment of irrigation system controller
 - .3 Electrical conduits
 - .4 Controller cabinets
 - .5 Vaults, valve boxes & lids
 - .6 Fittings
 - .7 Excavation, trenching, backfill, and restoration
 - .8 All incidentals necessary for the proper installation and operation of a complete irrigation control system

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- .3 Supply and installation of pipes, valves, sprinklers and dripline will be measured as a lump sum. The work includes but is not limited to:
 - .1 Supply, installation, testing and adjustment of irrigation pipe
 - .2 Sleeves and conduit,
 - .3 Zone control valves
 - .4 Micro-irrigation control zone kits
 - .5 Electric control wire, common wire, flow sensor wire, and spare wires
 - .6 Drain valves
 - .7 Isolation valves
 - .8 Pressure regulators
 - .9 Swing joint assemblies
 - .10 Sprinklers
 - .11 Emitters, bubblers, dripline, and root watering systems
 - .12 Air / vacuum relief valves
 - .13 Fittings
 - .14 Vaults, valve boxes & lids
 - .15 Excavation, trenching, backfill and restoration
 - .16 All incidentals necessary for the proper installation and operation of a complete irrigation system
- .4 Payment for Record Drawings and Operating Manual will be measured as a lump sum.
- .5 Payment for irrigation system tests, inspections, maintenance, winterization and spring start-up during the warranty period will be incidental to the work under this section.

1.11 Tests and Inspections

- .1 Refer to General Conditions, Clause 4.12, Tests and Inspections.
- .2 At various milestones during construction inspection and testing of components will be required to ensure performance of irrigation system meets expected standards.
- .3 Provide equipment and personnel necessary for performance of inspections and tests.

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- .4 As a condition of issuance of Certificate of Substantial Performance confirm in writing to the City of Salmon Arm, at least one week prior to application for Substantial Performance, the following inspections and successful tests:
 - .1 Certified backflow prevention device test per BCWWA.
 - .2 Mainline pressure test
 - .3 System coverage and operation test
 - .4 Dripline/emitter inspection and test, if applicable
- .5 Conduct all inspections and tests in presence of Contract Administrator and request Contract Administrator issue signed report to Contractor within three days regarding each test result. Request attendance of Contract Administrator for proposed inspection or test at least 3 days prior to proposed inspection or test.
- .6 Keep work uncovered and accessible until successful completion of inspection or test.

1.12 Backflow Prevention Test

.1 Conduct backflow prevention device test per American Water Works Association standard using qualified personnel.

1.13 Mainline Pressure Test

- .1 Perform mainline pressure test to identify potential leaks and ensure mainline is able to operate at design pressure and maintain system pressure. These tests to include longest run of pipe 3/4" or larger within a distribution branch.
- .2 Conduct mainline pressure test prior to backfilling of mainline.
- .3 Fill mainline with water and expel all air from pipe. Maintain water in pipe as follows:
 - .1 24 hours for PVC mainline
 - .2 3 hours for HDPE mainline
- .4 Subject mainline to hydrostatic pressure of 150psi or twice the optimum design operating pressure of the mainline and not to exceed 200psi.
- .5 Stop supply of make-up water to mainline and record hydrostatic pressure in mainline.
- .6 Visually inspect mainline and fittings for leaks.
- .7 Record hydrostatic pressure in mainline 3 hours after supply of make-up water stopped.
- .8 Determine test result based on difference in recorded pressures at beginning and end of test as follows:
 - .1 Passed test: Less than 5% difference
 - .2 Failed test: Difference of 5% or greater

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- .9 Identify source of leak and replace any and all defective materials and workmanship as necessary to eliminate leak.
- .10 Repeat mainline pressure test and make replacements as necessary until a passed result is achieved.

1.15 System Coverage and Operation Test

- .1 Conduct system coverage and operation test after installation and operation of complete irrigation system and prior to issuance of Certificate of Substantial Performance.
- .2 Conduct visual inspection to confirm that:
 - .1 Head spacing does not exceed that shown on Contract Drawings
 - .2 Where applicable, irrigation piping should be designed to follow the contours of the land in an effort to minimize low head drainage situations.
 - .3 Heads, boxes, vaults and trenches are at specified elevation relevant to finished grade and not subject to settlement or lifting
- .3 Conduct operational tests to verify that:
 - .1 Controller can be programmed manually on site and remotely via Owner's central irrigation control system
 - .2 Controller can send and receive communication with Owner's central irrigation control system 10 consecutive times without a missed communication
 - .3 Controller responds to flow sensor
- .4 Operating pressure is within design parameters
- .5 Each zone can be operated automatically and in succession via programmed controller
- .6 Performance provides head to head coverage

1.16 Dripline/Emitter Inspection

- .1 Perform inspection and testing of dripline/emitter manifold and lines to identify potential leaks and confirm manifold, driplines and emitters are able to operate at design pressure. Conduct inspection and testing prior to backfilling of manifold, driplines or emitters.
- .2 Fill manifold and lines with water at operating pressure and maintain pressure for 1 hour. Visually inspect manifold, driplines and fittings for leaks. Confirm that emitters are functioning correctly. Identify sources of leaks and replace any

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	and all defective materials and	workmanship as necessary to

eliminate leak.

.3 Repeat inspection and testing and make replacements as necessary until no further leaks are identified.

2.0 PRODUCTS

2.1 Water Service and Meter

- .1 Unless already installed or otherwise required by the water utility having jurisdiction over the site provide a metered water service, including but not limited to:
 - .1 Plumbing permit
 - .2 Backflow prevention device; with permit as required
 - .3 Establishment and verification of water account with appropriate utility provider
- .2 Supply and install water meter in accordance with requirements of water utility.
- .3 Conform size of water meter to mainline diameter and allow for minimal pressure losses.

2.2 Isolation Valve

- .1 Acceptable isolation valves include the following:
 - .1 Up to 2" see Approved Products List
 - .2 Greater than 2" per Contract Drawings

2.3 Flow Sensor

- .1 Flow sensors impellors to be brass or stainless steel for up to 1" size, and glass filled nylon over 1" size, sized to match system low and high flows.
- .2 Acceptable wire for flow sensor to be shielded, direct burial instrument cable and includes the following:
 - .1 Beldan
 - .2 Approved Equal

2.4 Master Valve

- .1 Acceptable master valves are specified on the Approved Products List.
- .2 Ensure master valve is sized to maximum and minimum flow parameters shown on Contract Drawings.

2.5 Pressure Reducing Valve

.1 Acceptable water pressure reducing valves are specified on the Approved Products List.

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2.6	Backflow Prevention	.1	Acceptable double check valve assemblies (DCVA) are specified on the Approved Products List.
		.2	Acceptable Reduced Pressure Backflow Assemblies (RPBA) are specified on the Approved Products List.
		.3	Refer to section 1.12.1 for backflow prevention test requirements.
2.7	Blowout Assembly	.1	Blowout assembly to be 50mm brass gate valve with brass hydrant adapter and threaded cap on swing joint assembly.
2.8	Vault and Lid	.1	Acceptable vaults and matching lids for point of connection equipment and components are dependent on service size, and are specified on the Approved Products List.
		.2	Lids to have recessed hinges and locking hardware.
2.9	Irrigation Controller	.1	Irrigation controller and associated components per Drawings.
2.10	Controller Cabinet	.1	Acceptable controller cabinets include the following: .1 Double post # KSH-21
		.2	Irrigation cabinet to be finished using: .1 One coat of Zinc Chromate Primer (General Paint or Tremclad)
		0	.2 Two coats of General Paint Exterior Alkyd #CW033W
0.44	0 - 1 - 1 147	.3	Cabinet hinges to allow for grease application.
2.11	Control Wire	.1	Control wire from irrigation controller to electric control valve to be CSA approved, minimum #14 gauge, direct burial, type TWU-40 wire. Control wire to be any colour other than white, blue, purple, red or green.
		.2	Common wire from irrigation controller to electric control valve to be minimum #12 gauge direct burial, type TWU-40 wire. Common wire to be white in colour.
		.3	Master valve wire from the controller to valve to be minimum #14 gauge direct burial, type TWU-40 wire. Wire to be red in colour.
		.4	Spare control wire to be blue in colour.
		.5	Spare common wire to be white in colour.
		.6	All connectors to be new, two-step, CSA approved for water tight applications and assembled according to the manufacturer's recommendations.

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2.12	Irrigation Sleeve	.1	Schedule 40 PVC for irrigation sleeve in bard surface.	
		.2	Irrigation sleeve diameter to be minimu diameter of main or lateral line running th is greater.	
		.3	Control wire conduit to be a minimum 2" conduit, per code.	diameter electrical
2.13	Polyvinyl	.1	Conform to CSA B137.3-93.	
	Chloride (PVC) Pipe	.2	New condition, extruded form virgin, high solvent weldable with belled ends, permanently marked showing manufacture size, pressure rating, and CSA approval.	continually and
		.3	PVC pipe to be as follows: .1 Class 200 PVC pipe for pipe sizes ¾" to .2 Bell & Spigot gasket joint pipe c/w conc for pipe sizes 2½" in diameter and greater	rete thrust blocking
2.14	Polyethylene (PE) Pipe	.1	New condition CSA Series 100, MDPE extruded from virgin materials, continually marked showing manufacturers name, repressure rating.	y and permanently
2.15	High Density Polyethylene (HDPE) Pipe	.1	New condition CSA Approved, extruded from continually and permanently marked shown name, material, size, and pressure rating.	•
		.2	Material to be listed by the Canadian Sta (CSA) and Plastic Pipe Institute (PPI) as a a hydrostatic design basis (HDB) of 1600ps Material to comply with ASTM D-1248 as Category 5, Grade P34 material and with 345434C cell material.	PE-3408 resin with si for water at 23°C. a Type III Class C,
		.3	Acceptable HDPE pipe is dependent on and to have Standard Density Ratios (SDF .1 Max. pressure up to 100psi: SDR-17.0 .2 Max. pressure exceeding 100psi: SDR-	R) as follows:

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2.16 Fittings		.1	New condition Schedule 40 PVC conforming to ASTM D-2466-97 (and F438-97 for CPVC) standards and of the same material as pipe. Fittings to be designed for solvent welding to PVC pipe except where valves and risers require threaded joints.
		.2	Nipples to be threaded Schedule 80 PVC and manufactured from same material as the pipe.
		.3	At the point where the supply source changes from metal to PVC pipe, the metal end of the pipe must be an FIPT (female) adapter and the PVC fitting a MIPT (male) adapter.
		.4	Flange couplers may be used upon approval of Contract Administrator.
		.5	Fittings for HDPE pipe to be Schedule 80 PVC insert fittings complete with stainless steel gear clamps.
		.6	Fittings for HDPE pipe to be butt fusion type for end-to-end joints.
		.7	SDR rating of HDPE fittings must match the SDR rating of the HDPE pipe specified.
		.8	HDPE pipe fittings to be molded or fabricated by the pipe manufacturer. HDPE pipe fittings and flange adapters made by contractors or distributors are prohibited.
		.9	Fittings for dripline and drip emitters to be compatible with specified dripline or emitter and as recommended by manufacturer.
2.17	Sprinklers - general	.1	Make, model, nozzle size, and features of sprinklers as specified on Contract Drawings.
		.2	All sprinklers installed in sport field turf areas to be equipped with the manufacturer-supplied rubber covers.
2.18	Sprayhead Sprinkler	.1	Acceptable sprayhead sprinklers are specified on the Approved Products List.
		.2	Required pop-up height for sprayhead sprinklers to be as shown on Contract Drawings.
2.19	Rotor Sprinkler	.1	Acceptable rotor sprinklers are specified on the Approved Products List.
2.20	Dripline	.1	Dripline shall incorporate root intrusion technology and be as shown on Contract Drawings.
		.2	Pressure compensating driplines are specified on the Approved Products List.

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2.21	Drip Emitter/Bubbler	.1	Drip emitters/bubblers shall be as shown on Contract Drawings.
		.2	Drip emitters/bubblers are specified on the Approved Products List.
2.22	Sand	.1	Sand to be pit run sand, per Section 31 05 17
2.23	Drain Rock	.1	Drain rock to be drain rock, per Section 31 05 17.
3.0	EXECUTION		
3.1	Existing Conditions	.1	Report existing conditions at variance with Contract Drawings to Contract Administrator.
		.2	Verify locations of underground utilities prior to commencing excavation and conduct work so to prevent interruption and damage to services and utilities. Make good all damages to same at Contractor's cost.
		.3	Verify location of all services in building walls before boring or drilling holes. Make good all damages to same at Contractor's cost.
		.4	Protect existing conditions and completed work from disturbance during Work. Make good all damages to same at Contractor's cost.
		.5	Adjustments to installation of irrigation system to avoid existing conditions, completed work and utilities will be permitted subject to prior approval by Contract Administrator.
3.2	Layout	.1	Locations of irrigation components shown on plans is schematic in nature. Coordinate actual location of irrigation components with landscaping, building and physical features of site. Confirm proposed changes to location of irrigation components in writing with Contract Administrator prior to installation. Changes that markedly alter the irrigation design in the opinion of the City Engineers require submission of Shop Drawings and updated Irrigation Design Report to City of Salmon Arm for their permission to proceed. Record all approved revisions on a marked-up set of Contract Drawings

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		.2	Layout and stake irrigation system per Contract Drawings to confirm:
			.1 Layout is within project boundary and property lines
			.2 Site grades are consistent with Contract Drawings
			.3 Damage to root system of existing trees is minimized
			.4 Installation of irrigation components to be a minimum of 1 meter outside the dripline of existing trees
			.5 Minimum horizontal and vertical clearances from electrical and other utilities are met
			.6 Location of all sleeving, main lines, cabinets, vaults, valve boxes, splice boxes and ground grid assembly
		.3	Have layout inspected and approved by the Contract Administrator before commencement of work. Adjust layout as instructed by Contract Administrator.
		.4	During construction it may be necessary to adjust the layout of the irrigation system. Request layout changes to Contract Administrator prior to execution of work.
		.5	Do not modify irrigation layout without written approval of Contract Administrator.
3.3	Excavation	.1	Excavate to ensure depth and bedding requirements are met.
		.2	All excavation is unclassified. Report any material or site condition that cannot be excavated by normal mechanical or manual means or that may affect excavation to required depth to Contract Administrator prior to excavation.
		.3	Identify and recycle all suitable materials recovered during construction.
		.4	Remove and dispose of buried debris exposed during excavation, including decommissioned irrigation materials and underground utilities, which may impede the proper installation and operation of irrigation system.
3.4	Water Meter	.1	Install water meter per Drawings and requirements of water utility.
3.5	Isolation Valve	.1	Install isolation valve per Drawings.
3.6	Flow Sensor	.1	Install flow sensor in location specified on Drawings.
		.2	Flow sensor wire to run continuously, with no splices, between flow sensor and irrigation controller.
		.3	Follow manufacturer's recommendations for installation and wiring of flow sensor.
3.7	Master Valve	.1	Install master valve per Drawings.
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3.8	3.8 Pressure Reducing Valve		Install pressure reducing valve (PRV) precommendations in location shown on and as required to maintain operating manufacturer's recommended range.	Contract Drawings
		.2	Adjust PRV to provide water at design sprinkler furthest from control valve.	pressure for the
3.9	Backflow Prevention	.1	Install Double Check Valve Assembly (Econcrete vault or a locked mechanical room	,
	Device	.2	Install Reduced Pressure Backflow Assiminimum of 300mm above finished grade recommendations and Drawings. Install R concrete pad with pipe restraints bolted to f support assembly.	per manufacturer's PBA on reinforced
		.3	Construct reinforced concrete pad for RP than the proposed enclosure in all direction reinforced concrete pad on a 150mm thicknesse compacted to 95% S.P.D. Provide below discharge valve and connect to comanhole or catch basin.	ections. Construct ckness of granular vault drain directly
		.4	Install acceptable lockable enclosure ove enough to secure the assembly and components attached to this point.	
		.5	Install backflow prevention device in acapplicable codes and bylaws and in accurrent Cross Connection Control Medical Procedure and Practice (American Water	cordance with the Manual Accepted
		.6	Install backflow prevention devices with postorom for maintenance and servicing.	sitive drainage and
		.7	Support backflow prevention device with per manufacturer's recommendations for support points.	
3.10	Blowout Assembly	.1	Install blowout assembly per Drawings.	

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3.11 Vault and Lid

- .1 Install vault in location shown on Contract Drawings or in alternate location approved or directed by Contract Administrator.
- .2 Support and brace point of connection components, piping and valves within vault using adjustable aluminum pipe stands complete with riser, pipe clamps, base plate and galvanized or stainless steel fittings in the quantity per service size indicated as follows:
 - .1 3/4" 2 supports
 - .2 1" to 2" 3 supports
 - .3 2 ½" to 3" 3 supports per vault
 - .4 Larger than 3" per Contract Drawings
- .3 Lids to have recessed hinges and locking hardware.
- .4 Use brass pipe for all piping inside vault and extend brass piping outside the vault a minimum of 300mm beyond vault. Make union of brass pipe with other pipe in valve box or vault using specified fitting.
- .5 Make connections of PVC pipe and metal pipe using male threads on PVC pipe and female threads on metal pipe.
- .6 Install vault drain and connect to drain pit, dry well, manhole or catch basin.

3.12 Irrigation Controller

- .1 Install irrigation controller in controller cabinet.
- .2 Coordinate controller installation with that of other electrical components.
- .3 Install controller and wiring in accordance with local, provincial and national electrical codes.
- .4 Install and test the ground assembly using a "Megger" to ensure earth resistance to ground does not exceed controller manufacturer's recommendations.
- .5 Install communication components per manufacturer's recommendations and establish communication between controller and Owner's central irrigation control system, including relays or boosters as necessary.
- .6 Prior to issuance of Certificate of Substantial Performance request irrigation program from Contract Administrator and set controller program accordingly.

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	Controller Cabinet	.1	Install controller cabinet in location shown on Contract Drawings or in alternate location approved or directed by Contract Administrator.
		.2	Orient alignment of controller cabinet as approved by Contract Administrator to provide optimal observation of irrigation system in operation.
		.3	Install controller cabinet using a poured in place concrete pad mount.
		.4	Provide electrical service to controller cabinet as shown on Contract Drawings.
		.5	Install electric meter in the irrigation cabinet per electrical utility's requirement.
		.6	Install only GFI breakers in controller cabinet electrical panel.
		.7	Install 1 duplex 120v AC GFI receptacle, on dedicated breaker, in controller cabinet.
3.14	Electric Control Valve	.1	Install in valve box per manufacturer's recommendations and Drawings.
		.2	Identify electric control valve with permanent label or tag indicating zone number of valve.
3.15	3.15 Manual Control Valve		Install in valve box per manufacturer's recommendations and Drawings.
		.2	Identify manual control valve with permanent label or tag indicating zone number of valve
3.16	Valve Box	.1	Install all manual and electric control valves, control zone kits and quick coupler valves in valve boxes or concrete vault as shown on Drawings.
		.2	Except as shown otherwise on Contract Drawings or approved otherwise by Contract Administrator, locate valve boxes in planting beds and locate for ease of access, maintenance, and testing.
		.3	Install valve box flush with finish grade and arrange in a neat and orderly manner.
		.4	Provide minimum 150mm clearance between valve box and all components within.
		.5	Valve box must not contact irrigation pipe. Use 150mm height matching valve box extensions as required.
		.6	Up to three 1" control valves or two 1½" control valves may be contained within a single valve box provided there is 100mm of clearance between valves. Install valve 2" and larger in their own valve box.

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3.17 Control Wire	.1	Install control wire per code and by employed by the company holding the ele	•
	.2	Bury control wire per applicable code and the bottom side of parallel pipe.	d in no case above
	.3	Bed control wire in sand with minimum scontrol wire. Where control wire is in sa place wire beside pipe with horizontal clear of 50mm and in accordance with BC Electrons.	me trench as pipe, rance of a minimum
	.4	Bundle multiple lengths of wire in same treaties at maximum 3.0m intervals.	ench or conduit with
	.5	Install wire with minimum 600mm length changes of direction, in wire splice boxes to controlled components.	
	.6	Identify all control wires entering control permanent label or tag indicating zone operated by each control wire.	
	.7	Maintain consistent wire colour through w	ire splice box.
	.8	Minimize wire splices. Where wire splice make splice only in wire splice box using s	
	.9	Identify spliced wire with permanent lab zone number of spliced control wire.	el or tag indicating
	.10	Where specified on Contract Drawings, wire to wire splice box. Provide 600mm le of each wire end in wire splice box. Identi as 'extra' wire with permanent label or tag	ength of coiled slack fy extra control wire
3.18 Wire Splice Box	.1	Locate wire splice box in planting bed	where possible and

- ıd locate for ease of access, maintenance, and testing.
- Install wire splice box per Drawings and arrange in a neat and .2 orderly manner.
- Do not install valves in wire splice box. .3

Schedule B, Part 3 – Construction	n Specifications	
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3.19 Irrigation Sleeve	Install irrigation sleeves in locations Drawings.	shown on Contract

- .2 Install irrigation sleeve to depth as follows:
 - .1 Mainline Piping
 - .1 600mm below walkways
 - .2 750mm below driveways, roads and plazas
 - .2 Lateral Piping
 - .1 300mm below walkways
 - .2 600mm below driveways, roads and plazas
- .3 Install sleeve to extend 1.0m past edge of hard surface into soft landscape surface.
- .4 Cap sleeve with removable plug or cover. Maintain plug in sleeve until such time as pipe or wire is ready to be installed.
- .5 Bed sleeve as follows:
 - .1 Under walkways, 100mm of sand placed all around
 - .2 Under driveways, roads and plazas, compacted base aggregate all around per materials shown on Drawings.
- .6 Bury a piece of detectable metal on top of each end of sleeve to enable location of sleeve end by metal detector after burial.
- .7 Stake location of each end of sleeve prior to backfilling such that top of stake is 300mm above finished grade and maintain. Label exposed end of stake with the word "sleeve".
- .8 Record location of sleeve ends and label size of sleeve on Record Drawings.
- .9 Remove sleeve stake after submission of Record Drawings.

3.20 Pipe and Fittings

- .1 Verify that all pipe, fittings, primer and cements are compatible for proper installation.
- .2 Minimum burial depth and clearances for pipe and wire to be per Drawings.
- .3 Do not locate open side of trench any closer than 300mm from hard surface or feature.
- .4 Keep inside of pipe and outside of pipe ends clean at all times. Cap or plug open pipe ends to keep out dirt and debris.
- .5 Cut PVC pipe ends at right angle to pipe length. Clean burrs prior to joining pipe and fittings.
- .6 Do not apply cement or solvent weld pipe or fittings under wet or muddy conditions.
- .7 Follow manufacturer's recommendations for use of pipe primer and cement.

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- .8 Immediately prior to joining pipe and fittings wipe contact surfaces clean with primer on clean rag.
- .9 Apply light coat pipe of cement on inside of fitting and heavier coat on outside of pipe. Insert pipe into fitting and give a quarter turn to seat cement. Wipe excess cement from outside of pipe.
- .10 Make plastic to metal joints with plastic male adapters.
- .11 Wrap male threads of threaded fittings with minimum 3 wraps of Teflon tape immediately prior to making connection.
- .12 Flush all irrigation pipe fully to remove accumulation of dirt and debris prior to installation of heads, dripline, emitters and filters. Flush all laterals in a manner approved by the manufacturer to prevent clogging of screens, nozzles and emitters.
- .13 Follow manufacturer's recommendations to install pipe in a manner that provides for expansion and contraction of pipe in trench.
- .14 Conduct water service flow test and obtain approval of Contract Administrator prior to backfilling main line.
- .15 Conduct mainline pressure test and HDPE pipe strap test and obtain approval of Contract Administrator prior to backfilling lines.
- .16 For HDPE pipe conduct HDPE pipe strap test and obtain approval of Contract Administrator prior to backfilling HDPE pipe.
- .17 Set mainlines and laterals on sand and backfill with sand to clearance limit shown on Drawings.
- .18 For pipe in growing medium of landscaped areas backfill trench with growing medium and tamp in lifts to achieve compaction equal to the adjacent growing medium.
- .19 For pipe in native soil, sub-surface fill, rocky soils and aggregate base or subbase material backfill remainder of trench with suitable non-sand material under 25mm in diameter and free of materials that could result in settling or damage to pipe or surface improvements.
- .20 Install 14 gauge insulated trace wire (purple) on top of all mainline and lateral piping. Extend and fasten tracer wire into valve boxes, vaults and sleeves.
- .21 Install thrust blocks where required in Contract Drawings.

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3.21	Sprinkler	.1	Install per manufacturer's recommendations shown on Contract Drawings.	and in location
3.22	Dripline	.1	Install per manufacturer's recommendations i on Contract Drawings.	n location shown
3.23	Emitter/Bubbler	.1	Install per manufacturer's recommendations a Drawings.	and as shown on
3.24	Hose Bib	.1	Install as shown on Drawings	
3.25	Clean-up and Restoration	.1	Remove all waste and debris resulting installation from site.	from irrigation
		.2	Restore all disturbed surfaces to original con all trench settlement.	dition and repair
3.26	Instructions to Owner	.1	Instruct Owner in complete operating ar procedures for irrigation system, incl winterization, and programming.	nd maintenance uding start-up,
		.2	Review Record Drawings and Operating Ma on site.	nual with Owner
3.27	Maintenance General		Inspect, operate, maintain and adjust in through the Landscape Maintenance Period Certificate of Acceptance to ensure it opera including but limited to:	until issuance of
			.1 Adjust irrigation program to ensure surv growth of the plant material and respond to climate and seasons of site	
			 .2 Clean sprinkler heads and adjust covers over watering, under watering and overspr surfaces 	
			.3 Monitor and clean filtration equipment	
			.4 Restore grass areas, planting beds, ha improvements affected by trench settleme	
			.5 Respond to requests from Contract A program adjustments, servicing, adjustments	

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3.28 Maintenance Winterization

- .1 During Landscape Maintenance Period be responsible for winterization of irrigation system at end of growing season and prior to onset of air temperatures below 0° Celsius. Be liable for any damage resulting from late or improper winterization.
- .2 Request presence of Owner at winterization at least 5 days prior to proposed winterization.
- .3 Winterization includes but is not limited to:
 - .1 Saturation of soil with water to a depth of 300mm to provide deep watering of all lawn areas, planting beds and tree pits
 - .2 Deactivation of controller
 - .3 Drainage and blow-out of entire irrigation system
- .4 Contact water utility provider to determine if water meter is to be removed for winter. Remove and store water meter, or assist the water utility with removal of water meter, as directed by water utility.

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1.7 Scheduling of Work

Replace: .2 Submit schedule of interruptions to Contract Administrator for approval at

least 48 hours prior to any planned interruption and adhere to approved

schedule.

Add: .6 In the event water service has not been returned within one hour of the

anticipated time, the contractor shall re-notify all customers of the

unscheduled delay in resumption of water service.

2.2 Mainline Pipe, Joints and Fittings

Add: .1.3 Minimum pressure class for ductile iron pipe shall be 350 for 100 mm to

300 mm, 250 for 350 mm to 500 mm, 200 for 600 mm and 150 for 900 mm.

Add: .2.1.5 Colour: Blue

2.3 Valves and Valve Boxes

Add: .2.8 Gate Valves shall be epoxy coated.

Remove: .6.1.1 (Rectangular not permitted)

Add: 7.6. Colour: Curb stop valve boxes to be painted blue.

Add: 7.7. Protective pre-cast concrete valve boxes with cast iron lids as specified on

contract drawings.

2.4 Valves and Large Meter Chambers

Replace: .8 Refer to Section 33 44 01, 2.1.8 for Ladder Rung Specifications.

Add: .11 Refer to Section 33 44 01, 2.1.24 for Manhole Liner Specifications.

Add: .12 Refer to Section 33 44 01, 2.1.16 for Adjustment Ring Specifications.

2.5 Service Connections

Add: .1.2 Service pipe shall be manufactured with a co-extruded UV shield made

from UV resistance high-density polyethylene, color Sky Blue (International

Thermoplastic Color Code, RAL 1501).

Add: .6 14 Gauge Solid White Tracer wire required on all services.

2.6 Hydrants

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Municipa	l Specification	s Page 2 of	f 3
Add:	.1.12	Hydrants to be flow tested by the City or an approved consultant.	Α

completed form F-11 shall be submitted to the City.

Replace: .2 Colour: All hydrants are to be painted in accordance with the City Supplement Standard Drawing W-3.

2.10 Water Meters

Add: .1 Water Meters: Water meters shall be supplied by the City of Salmon Arm at the expense of the contractor to the specifications shown on the contract drawings.

Add: .2 Meter Vaults: As shown on the contract drawings.

3.3 Trenching

Replace: .3 Trench depth to provide cover over pipe of not less than 1.8 m from finished grade unless shown otherwise on Contract drawings.

3.6 Pipe Installation

Replace: .6 Pipe to be laid on a horizontal curve shall not be permitted unless otherwise specified by the Contract Drawings. If specified in the Contract Drawings, horizontal deflections shall not exceed one half the maximum deflection recommended by the manufacturer. For PVC pipe deflections exceeding those stated above, use:

- .1 PVC High Deflection coupling rated at 1380kPA (100mm 300mm)
- .2 PVC long radius 5 degree bend rated at 1620kPa (100mm 750mm)

3.10 Service Connection Installation

Add: .13 Where services are located in driveways, inspection chambers and curb stops shall be located within protective concrete vaults.

Add: .14 Install tracer wire from mainline corporation stop along service to finished grade on curb stop.

3.12 Hydrants

Replace: .6 Hydrants shall be covered with a black plastic bag and secured at the bottom until such time as they have been accepted by the Contract Administrator and City Engineer and the Salmon Arm Fire Department has been notified that they are fully operational.

3.24 Bacteriological Tests

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Add: .1 Bacteriological tests shall be as per the current ANSI/AWWA C651 Standard for Disinfecting Water Mains.

Add: .2

Bacteriological water samples shall be collected from new watermain installations following the satisfactory completion of main chlorination and flushing. The owners' consulting engineer shall collect water samples. Such bacteriological testing shall be done using full aseptic precautions. The sample shall be taken from a copper gooseneck assembly provided by the contractor. The contractor shall be responsible to ensure the gooseneck assembly is contaminant free. Water shall be run from the sample tap for a minimum of 2 minutes prior to sampling. The water shall run at a constant rate prior to and during the sampling procedure. A sterile water sampling bottle must be obtained from the local Health Unit, and shall be used to collect the water sample. The cap of the bottle shall be removed after the water has run for 2 minutes, taking special precautions to not touch or contaminate the underside of the lid or the bottle rim. The bottle shall be filled to the fill line and then recapped immediately. Hose pipe shall never be used as a sample source. The sample shall be labelled completely indicating time, location, project, contract number and sampler. Sample bottles shall then be immediately placed in a cooler with an ice pack. Samples shall be transported to a testing facility acceptable to the City within 8 hours of sampling. The owners' consulting engineer is responsible for delivery and obtaining and reporting the test results. In no case shall samples take more than 24 hours to reach the testing facility approved by City Engineer. At least one sample shall be collected from each new main. In the case of long mains a sample shall be collected at 250 meter intervals as well as at its ends. At least one sample shall be taken from the source of water supply to determine the status of the distribution system at the time of sampling. If, in the opinion of the City Engineer, the pipeline has been contaminated with trench water, excessive quantities of dirt or debris, bacteriological water samples shall be collected at 60 meters intervals after water has stood in the main for at least sixteen (16) hours after final flushing or recommended by the City Engineer. Re-disinfection and re-sampling shall be required for all watermains that do not satisfactorily meet Interior Health Authority bacteriological requirements as amended from time to time.

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PART 1 GENERAL

1.1 General

- .1 The work specified in this section consists of furnishing and installing underground utilities using the horizontal directional drilling (HDD) method of installation, also commonly referred to as directional boring or guided horizontal boring. This work shall include all services, equipment, materials, and labor for the complete and utilities and environmental protection and restoration.
- .2 This section must be referenced to and interpreted simultaneously with all other sections pertinent to the works described herein.

1.2 Related work

- .1 Excavating, Trenching, and Backfilling Section 31 23 01
- .2 Traffic Control, Vehicle Access, and Parking Section 01 55 00
- .3 Manholes & Catchbasins Section 33 44 01
- .4 Water Works Section 33 11 01

1.3 Definitions

- .1 Annular Space—The void created between the outside diameter of pipe being installed and extreme outer limits created by HDD bore process.
- .2 Lubricant—A substance applied between the pipe and soil to minimize friction and to fill the annular space.
- .3 Horizontal Directional Drilling (HDD)

Directional drilling is a means of installing or replacing underground utilities. Directional boring is a two-stage process. In stage one; a steerable drill head bores a pilot hole to a pre-designated point. In Stage two, the drill head is removed and, depending on the size of the product being installed, is replaced with a reamer to help open the path. A swivel is inserted between the reamer and the product to be installed to allow the reamer to rotate without twisting the product. At this point the entire assembly is pulled back through the pilot hole to the entry pit.

.1

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1.4 Quality Assurance

The requirements set forth in this document specify a wide range of procedural precautions necessary to insure that the very basic, essential aspects of a proper directional bore installation are adequately controlled. Strict adherence shall be required under specifically covered conditions outlined in this specification. Adherence to the specifications contained herein, or the Engineer's approval of any aspect of any directional bore operation covered by this specification, shall in no way relieve the Contractor of their ultimate responsibility for the satisfactory completion of the work authorized under the Contract.

1.5 Environmental Protection

.2 All horizontal directional drilling works crossing a watercourse to be done in accordance with Fisheries and Oceans Canada Pacific Region Operational Statement Directional Drilling Notification Package (Version 3 document DFO /2007 – 1283)

1.6 Codes and Standards

.1 In addition to all codes and standards referenced elsewhere in the Contract Documents, all materials and equipment supplied, and work performed herein shall conform to the latest edition of the applicable industry codes, standards, references and recommended practices.

1.7 HDD Process

- .1 The Contractor shall furnish all material, supervision and labour, including consumables and materials of a temporary nature, which are not specifically provided by the owner as per Contract Documents. The Contractor shall also furnish all other services and work documents as required for the Work and in accordance with the requirements set forth in the Contract Documents.
- .2 The Contractor shall supply Horizontal Directional Drilling equipment, tools, supplies and components in first class working order sufficient and all-encompassing to enable the project to be carried out in a continuous and uninterrupted manner. The directional drilling equipment shall consist of a directional drilling rig of sufficient capacity to perform the bore and pullback of the pipe; a drilling fluid mixing, delivery and recovery system of sufficient capacity to successfully complete the borehole; a drilling fluid recycling system to remove solids from the drilling fluid so that the fluid can be re-used; a guidance system to accurately guide boring operations; a vacuum truck of sufficient capacity to handle the drilling fluid volume; and trained and competent personnel to operate the system.
- .3 All equipment shall be in good, safe operating condition with sufficient supplies, materials and spare parts on hand to maintain the system in good working order for the duration of the project.

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Horizontal Directional Drilling

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- .4 The Contractor shall furnish all material, supervision and labour, including readout instrumentation, steering tools, etc. The instruments should provide data on pilot hole location at all times.
- .5 The Contractor shall also provide a capable and experienced mud engineer to monitor and maintain mud properties as necessary for this procedure, sufficient drilling crews experienced and competent in the operation of the above rigs, and surveyors experienced and capable of operating the above equipment.

1.8 Incidental items

The Contractor shall supply and maintain:

- .1 Temporary fences, fence repair materials, temporary gates, permanent gates, if required.
- .2 Sand bags (sack breakers) including bags, sand, earth and cement, as required.
- .3 All fusion bond, joint, patch and repair materials, and a data logger to permit continuous recording during pipe jointing, McElroy DL2001, or approved equivalent for PVS pipe fusion
- .4 All welding supplies and materials, and a data logger to permit continuous recording during pipe jointing for steel pipe welding.
- .5 All pigs, launchers, receivers, test heads and compressors necessary for cleaning, gauging, hydrostatic testing of the pipe.
- .6 All dead weight testers, hoses, fittings, pressure and temperature recorders and chart paper required for hydrostatic testing as outlined in the specifications.
- .7 All materials and equipment for hydrostatic testing.
- .8 All materials and equipment to heat, hoard and cover work area, as required, during inclement weather conditions.
- .9 All dunnage, straps, chains, padding, spreader bars etc., required for loading, hauling, stockpiling and stringing of pipe.
- .10 All welding, pipe jointing consumables.
- .11 Pipe pulling swivel and pipe pulling heads complete with connections with a design rated strength equal to that of the rig capacity plus 25%
- .12 All fuels, Oils, and greases.

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- .13 All culverts, as required.
- .14 All cement, cement additives, mixing water, cement mixing and pumping equipment and grouting tools required to complete the Works. The Contractor shall provide, if required by conditions of lost circulation, suitable cement and grouting tools such as lightweight slurry, open hole packers, and stage tools. All above tools shall be drillable to full open inside diameter after serving their intended function.
- .15 All necessary mud pits and slurry mixing and cuttings separation equipment. The Contractor Shall immediately clean up any drilling mud, which spills or overflows from these pits or equipment. Disposal of spilt or excess drilling fluid shall be the responsibility of the Contractor.
- .16 Sufficient spares or replacement items of above equipment to maintain directional drilling capacity at all times.

1.9 Materials Supplied by the Owner

- .1 The Owner will provide the Right of Way for the work and the Work and Storage Areas.
- .2 The Owner will provide water at a source near the site. The Contractor shall provide an approved valve through which they can draw water. The hydrant valve and/or hydrant shall not be used to control water. The hydrant shall be securely closed when no work is actively being carried out. Water shall not be wasted; if it is, the Engineer may terminate the supply and Contractor shall then be responsible for obtaining water elsewhere.

1.10 Mobilization

- .1 Mobilization for the works covered by this Specification shall include the assembly and transportation to the works Site of all equipment, materials and personnel necessary to perform the Work. This shall include, but not be limited to the following items:
 - Initial site survey (several survey reference points will be provided by the Owner);
 - Drilling and downhole survey equipment;
 - Drilling materials;
 - Grouting equipment;
 - Grouting materials;
 - · Procurement of all permits and licenses for the execution of the

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Works, except for those obtained by the Owner; and Approval by the Engineer of all preconstruction submittals required by this Specification:

.2 Mobilization and site preparation shall not be considered complete until the above equipment has been completely rigged up and in position at the site and ready to commence work.

1.11 Right of Way and Work and **Storage Area**

- .1 The right-of-way configuration is shown on the Drawings forming part of the Contract Documents. The Contractor is advised that all operations must be strictly confined to the areas identified unless they obtain specific permission.
- .2 The Contractor shall familiarize themselves with the layout areas and make such allowances as may be necessary for any stops and intermediate welds. Any additional working space required by the Contractor for such uses as pipe(s) layout, Storage of spoil material, equipment turnarounds, vehicle servicing and fueling yards, access to the right-of-way and other requirements shall be obtained by the Contractor at the Contractor's expense and such agreements shall meet the Owner's requirements. The Contractor shall provide a copy of all such agreements made with the occupants to the Owner prior to the use of the additional work areas covered by those agreements.
- .3 The pipe shall be installed to the alignment and elevation shown on the drawings unless approved otherwise. The Owner shall have the right to make any changes necessary in the location of the proposed sanitary sewer or appurtenances, and if the change results in increasing or decreasing the cost of the Contractor in comparison with what its cost would have been had no change been made, the Contract Price will be equitably adjusted.

1.12 Access

- .1 Access to the site shall be through the existing Municipal Roadways and Right of ways in accordance with the Contract Documents. The Contractor shall provide cleared work areas at the entry and exit sites and shall ensure suitably dry working conditions.
- .2 Except as specifically noted herein, uninterrupted vehicle traffic movement shall be maintained at all times on all public roads and private access points. The Contractor shall identify within their work plan the proposed site preparation work, equipment, and procedures to satisfy this requirement. The Contractor shall be responsible for all

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traffic control, and obtaining traffic control permits and carrying out their requirements if necessary.

.3 When its operations are conflicting with normal traffic, the Contractor shall provide suitable detours, at the discretion of the Owner. All detours shall be clearly marked to the satisfaction of the Engineer. The Contractor shall furnish and maintain all necessary day and night warning signs, flares lanterns, barricades and flagmen when working on near roads, highways, or traffic ways, to protect all persons from injury and property from damage, and to warn the drivers of vehicles of the obstruction.

1.13 Fences

.1 Temporary fences shall be erected, and maintained, where necessary, for the protection of public safety.

1.14 Demobilization and Restoration

- .1 Demobilization shall include the following:
 - Dismantling and removal of all equipment and material mobilized by the Contractor.
 - Disbanding of the Contractor's personnel.
 - All site restoration and clean up.
 - Submission of all drilling, inspection, and test records and as-built drawings to the Engineer.
- .2 Restoration shall include cleaning, backfilling, paving and landscaping with compatible turf (where appropriate) of the entry and exit pits, mud and cutting separation pits with compacted general fill to preconstruction conditions, in a manner acceptable to the Engineer.
- .3 It is the Contractor's responsibility to remove all construction materials from work site after completion, and to ensure that the clean-up and site restoration are in accordance with the environmental requirements defined herein, and to the satisfaction of the Owner, landowner and/or occupant and the authority having jurisdiction.
- .4 Upon completion of the remaining work, the Contractor shall be responsible for removal from the site, and satisfactory disposal off site, of all deleterious materials, including materials from sediment ponds, excess excavation spoil., organic material, excess construction materials, brush, broken or cast off machinery, and any other construction debris. The Contractor shall remove from the work site all equipment, tools unused materials and accessories used in the construction.

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- .5 No rubbish or garbage may be buried or burnt on any construction site. It is the responsibility of the Contractor to make their own arrangements for the disposal of all garbage.
- .6 The Contractor shall pump and totally remove all drilling fluids and cuttings and shall transport and dispose such material at an approved disposal site in accordance with the environmental requirements defined herein.
- .7 The Contractor shall be responsible for the protection of existing road pavements during construction and shall be responsible for any damage to these pavements caused by their operations. The contractor shall repair and make good the damage at their own expense to the satisfaction of the Owner, landowner and/or occupant, or other authorities having jurisdiction over said roads or properties.
- .8 In the event that the Contractor is either unwilling or unable to obtain damage releases for damages incurred by the Contractor off the rightof-way and working space, the Owner shall have the right to settle such damages on behalf of the Contractor. The costs of such settlements shall be subtracted from monies owning to the Contractor.
- .9 The Contractor shall be responsible for the supply, placement and compaction of all materials required to carry out the site restoration activities described in the Project Documents. Subject to approval by the Engineer, it may be possible to re-use the existing site fills for the site restoration activities, providing that they have been suitably separated and stored.
- .10 Upon completion of the Work, the Contractor is responsible for providing an as-built survey of all the installations for the permanent records of the Owner.
- 1.15 Directional
 Drilling
 Supervision and
 Personnel
- .1 The Contractor shall ensure that all directional drilling and pull-back operations are performed with the operation of the equipment and drilling in subsurface materials similar to those expected to be encountered within the proposed installation.
- 1.16 Directional
 Drilling
 Surveying
- .1 The Contractor shall survey the site to accurately establish the entry points, exit points and azimuths of the pilot hole. The Contractor shall place and maintain their own benchmarks, survey monuments and

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other positioning aids as required for the duration of the Works. The Contractor shall be responsible for providing the necessary construction surveys required for the entire construction work shown on the drawings.

- .2 The Contractor shall be responsible for survey monitoring of the existing facilities, buried services, and lands as identified in the Contract Documents.
- .3 Upon completion of the Work, the Contractor is responsible for providing an as-built survey of all the installations for the permanent records of the Owner.

1.17 Drilling System

.1 DRILLING RIG: The directional drilling machine shall consist of a hydraulically powered system to rotate push and pull hollow drill pipe into the ground at a variable angle while delivering a pressurized fluid mixture to a guidable drill (bore) head. The machine shall be anchored to the ground to withstand the pulling, pushing and rotating pressure required to complete the crossing. The hydraulic power system shall be self-contained with sufficient pressure and volume to power drilling operations. Hydraulic system shall be free of leaks. Rig shall have a system to monitor and record maximum pullback pressure during pullback operations.

The rig shall be grounded during drilling and pullback operations. There shall be a system to detect electrical current from the drill string and an audible alarm, which automatically sounds when an electrical current is detected.

- .2 DRILL HEAD: The drill head shall be steerable by changing its rotation and shall provide the necessary cutting surfaces and drilling fluid jets.
- .3 MUD MOTORS (if required): Mud motors shall be of adequate power to turn the required drilling tools.
- .4 DRILL PIPE: Shall be as specified on Contact Drawings

1.18 Drilling Fluid (Mud) System

.1 MIXING SYSTEM: A self-contained, closed, drilling fluid mixing system shall be of sufficient size to mix and deliver drilling fluid. The drilling fluid reservoir tank shall have sufficient capacity to supply volume of

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drilling fluid. Mixing system shall continually agitate the drilling fluid during drilling operations.

- .2 DRILLING FLUIDS: Drilling fluid shall be composed of clean water and appropriate additives and clay. Water shall be from an authorized source with a pH of 8.5-10. Water of a lower pH or with excessive calcium shall be treated with the appropriate amount of sodium carbonate or equal. The water and additives shall be mixed thoroughly and be absent of any clumps or clods. No potentially hazardous material may be used in drilling fluid.
- .3 The use of drilling muds or drilling mud additives that contain toxic constituents is prohibited. Upon award of the Contract, the Contractor shall supply copies of Material Safety Data Sheets (MSDS) for the drilling muds and drilling mud additives, which are proposed to be used during the project for review by the Engineer. By reviewing the MSDS information to be supplied and submitted by the Contractor, the Owner and Engineer shall in no way assume responsibility or liability for the constituents of the drilling mud or drilling mud additives.
- .4 Construction and excavation wastes, overburden, soil, drill cuttings or fluid, or other substances deleterious to aquatic life must be disposed of or placed in such a manner by the Contractor to prevent their entry into watercourses.
- .5 The Contractor shall recycle and reuse, as much as practically possible, all drilling muds used in the HDD operations including, but not limited to, drilling of the pilot hole, reaming of a larger size diameter hole to facilitate pipeline placement and pulling of the pipeline through
- .6 Drilling muds shall be directed or pumped into tank(s) and/or pond(s), which must be adequately sized to prevent spillage or release of spent drilling muds from entering watercourses. Upon completion of the directional drilling activities, the spent drilling muds from entering watercourses. Upon completion of the directional drilling activities, the spent drilling mud must be removed from the site and disposed of offsite to an approved landfill, or other approved facility.
- .7 During the drilling of the pilot hole and reaming for the hole opening operations, the Contractor shall continuously monitor for the potential loss of drilling fluid by detaining the amount of fluid returned to the drill pit in front of the drill rig and the quantity of make-up drilling fluid required in the mixing tanks.

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- 8 Line inspection personnel shall be onsite at all times during drilling, reaming and pipe installation procedures to ensure all preventative and, if necessary, emergency response measures will be implemented effectively in the event of a mud release.
- .9 The Contractor shall immediately inform the Engineer of any losses in drilling fluid or losses in drilling fluid pressures and shall immediately implement emergency response actions as required.
- .10 Emergency response equipment necessary to contain drilling fluid losses shall be onsite and available for immediate use at all times to contain the movement of the drilling mud.
- .11 Once a drill fluid loss is detected, the Contractor shall immediately halt drilling operations and conduct a detailed examination of the drill path. If no fluid migration to the ground surface is identified, drilling operations may resume paying particular attention to drilling fluid consumption and pressures.
- .12 In the event of fluid migration to the surface occurring on land away from the wetted perimeter of watercourses, the Contractor shall halt drilling operations immediately, isolate the affected area using sandbags or other suitable materials, and recover the drilling fluids using vacuum trucks or mud/trash pumps. The drilling operations can proceed only after these remedial measures have been taken to the satisfaction of the Engineer.
- .13 In the event of drilling fluid release into watercourses and/or into the ditch or storm sewer which discharges into the Municipal storm sewer system, the Contractor shall halt drilling operations immediately and undertake the following remedial actions:
 - Contain the drilling muds to prevent further discharge into watercourses and/or into the ditch. In the case of an instream mud release, all reasonable efforts shall be made to prevent the downstream movement of the drilling mud. This may involve the installation of an instream containment structure.
 - Notify the Engineer of an inadvertent mud release and advise of the efforts being undertaken to seal the leaking area and of any mitigative measures implemented to address environmental concerns.
 - Obtain representative water quality samples and photographs of stations located upstream (control site), immediately downstream of the drilling mud release location and approximately 500 meters downstream (depending on creek conditions).
 - Evaluate the source of the drilling mud release and the location of

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the fracture points(s), and develop a plan for preventing further release of drilling mud into watercourses and/or the ditch or storm sewer which discharges into the Municipal storm sewer system.

- Develop and implement a cleanup and remedial plan in consultation with the Ministry of Environment and the Department of Fisheries and Oceans (DFO).
- Water for Hydrostatic Testing and Buoyancy Control: Water to be used for the hydrostatic pressure testing and to control buoyancy during pull-through of the pipeline shall be withdrawn from a municipal fresh water source. The Owner will arrange for a source of water in the vicinity of the work site.
- The Contractor shall dispose of ttest water from the hydrostatic pressure testing in a manner satisfactory to the Engineer.
- .14 DELIVERY SYSTEM: The mud pumping system shall have a sufficient capacity and be capable of delivering the drilling fluid at a constant minimum pressure. The delivery system shall have filters in-line to prevent solids from being pumped into the drill pipe. Connections between the pump and drill pipe shall be relatively leak-free. Used drilling fluid and drilling fluid spilled during drilling operations shall be contained and conveyed to the drilling fluid recycling system. A berm, minimum of 300 MM high, shall be maintained around drill rigs, drilling fluid mixing system, entry and exit pits and drilling fluid recycling system to prevent spills into the surrounding environment. Pumps and or vacuum truck(s) of sufficient size shall be in place to convey excess drilling fluid from containment areas to storage and recycling facilities.
- .15 DRILLING FLUID RECYCLING SYSTEM: The drilling fluid recycling system shall separate sand, dirt and other solids from the drilling fluid to render the drilling fluid re-usable. Spoils separated from the drilling fluid be stockpiled for later use or disposal.

1.20 Other Equipment:

- .1 PIPE ROLLERS: Pipe rollers shall be of sufficient size to fully support the wight of the pipe while being hydro-tested and during pullback operations. Sufficient number of rollers shall used to prevent excess sagging of pipe.
- .2 PIPE RAMMERS: Hydraulic or pneumatic pipe rammers may only be used if necessary and with the authorization of Engineer.
- .3 RESTRICTIONS: Other devices or utility placement systems for providing horizontal thrust other than those previously defined in the preceding sections shall not be used unless approved by the Engineer

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prior to commencement of the work. Consideration for approval will be made on an individual basis for each specified location. The proposed device or system will be evaluated prior to approval or rejection on its potential ability to complete the utility placement satisfactorily without undue stoppage and to maintain line and grade within the tolerances prescribed by the particular conditions of the project.

1.21 Submittals

- .1 The Contractor shall submit the following items for review and approval by the Engineer. Approval of the submittal by the Engineer shall be obtained prior to ordering pipe materials and/or the start of the HDD operations.
- .1 WORK PLAN: Prior to beginning work, the Contractor must submit to Engineer a work plan detailing the staging area and procedure and schedule to be used to execute the project. The work plan should include a description of all equipment to be used, down-hole tools, a list of personnel and their qualifications and experience personnel and their qualifications and experience (including back-up personnel in the event that an individual is unavailable), list of subcontractors, a schedule of work activity, a safety plan (including MSDS of any potentially hazardous substances to be used), traffic control plan (if applicable), an environmental protection plan and contingency plans for possible problems. Work plan should be comprehensive, realistic and based on actual working conditions for this particular project. Plan should document the thoughtful planning required to successfully complete the project.
- .2 EQUIPMENT: Contractor will submit specifications on directional drilling equipment. Equipment shall include but not be limited to: drilling rig, mud system, mud motors (if applicable), down-hole tools, guidance system, rig safety systems. Calibration records for guidance equipment shall be included. Specifications for any drilling fluid additives that Contractor intends to use or might use will be submitted.
- .3 MATERIAL: Specifications on material to be used shall be submitted to Engineer. Material shall include the pipe, fittings and any other item, which is to be an installed component of the project.
- .4 Descriptions of methods to control and dispose of ground water, spoil, temporary shoring, and other materials encountered in the maintenance and construction of pits and shafts.

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- .5 Shaft dimensions, location, surface construction, profile, depth, method of excavation, shoring, bracing, and thrust block design.
- .6 Pipe design data and specifications.
- .7 A description of the grade and alignment control system.
- .8 Description of lubrication and/or grouting system.
- .9 Layout plans and description of operational sequence.
- .10 Contingency plans for approval for the following potential conditions: damage to pipeline structural integrity and repair; loss and return to line and grade; and loss of ground.
- .11 Procedures to meet all applicable WorkSafeBC requirements. These procedures shall be submitted for a record purpose only and will not be subject to approval by the Engineer. At a minimum, Contractor shall provide the following:
 - a) Protection Equipment.
 - b) Protection against soil instability and ground water inflow.
 - c) Safety for shaft access and exit, including ladders, stairs, walkways, and hoists.
 - d) Protection against mechanical and hydraulic equipment operations, and for lifting and hoisting equipment and material.
 - e) Ventilation and lighting.
 - f) Monitoring for hazardous gases.
 - g) Protection against flooding and means for emergency evacuation.
 - h) Protection of shaft, including traffic barriers, accidental or unauthorized entry, and falling objects.
 - i) Emergency.
 - j) Safety supervising responsibilities.

1.22 Subsurface Conditions

- .1 All subsurface investigations deemed necessary by the Contractor to complete the work shall be included at no additional cost to the Owner. Copies of all reports and information obtained by the Contractor shall be provided to the owner.
- .2 Unless otherwise specified, all existing surface improvements damaged or removed as a result of drilling operations shall be restored to their original conditions

1.23 Measurement for Payment

.1 All units of measurements for payment will be as specified herein unless shown otherwise in Form of Tender. If not shown in Form of Tender, works are deemed to be incidental to other items of work.

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- .2 Form of Tender describes separate payment items for various sections of pipeline consistent with pipe diameters.
- .3 The unit price per lineal meter for horizontal directional drilling shall include full compensation for grouting and lubricants; providing receiving or recovery shafts including excavation, disposal, dewatering, backfill and replacement of surface or other improvements; furnishing and installing pipe, excavating, and disposal of materials encountered by installation of the pipe; and all other work appurtenant to drilling within the limits described in the Contract Documents.
- .4 Horizontal measurements will be made along the centerline of the pipe. Payment will include supply of all materials, labor and equipment required to perform the installation, mobilization, cleanup, after construction video inspection tapes with logs to Owner's standards and all other work and materials necessary to complete the installation as shown on Contract Drawings and specified herein.
- .5 No separate payment will be made for excavation or pits.
- .6 No separate payment will be made for diverting and pumping around the pipe being installed.

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PART 2 PRODUCTS

2.1 Pipe

- .1 All pipe used for horizontal directional drilling shall be:
 - 300mm IPEX FUSABLE BRUTE FUSED-JOINT DR18 PVC PIPE (CIOD). Fusible PVC pipe shall be certified to CSA B137.3 and NSF61 and conform to AWWA C900 or AWWA C905. Testing shall be in accordance with CSA B137.3 and AWWA standards for all pipe types.
- .2 All pipe shall be made of virgin material. No reworked material except that obtained from the manufacturer's own production of the same formulation shall be used
- .3 The pipe shall be homogenous throughout and shall be free of cracks, holes, foreign material, blisters or other deleterious faults.
- .4 Material color shall be blue.
- .5 Damaged pipe shall be removed. Other methods of repairing the damaged conduit may be used, as recommended by the manufacturer and approved by the Engineer.
- .6 The pipe manufacturer's design pipe loads shall not be exceeded during the installation process. The pipe shall be designed to take full account of all temporary installation loads. The pipe materials acceptable for drilling will be specified in the Contract Documents.
- .7 The maximum pulling capacity used shall not exceed the allowable pulling capacity of the pipe that has a minimum factor of safety of 2.0.

.1 Compliance

.1 Test for compliance with this specification shall be made in accordance with the applicable ASTM Specification. Upon request, a certificate shall be furnished by the manufacturer for all material furnished under this specification. The Contractor shall submit, for approval, the manufacturer's specific technical data with the complete information on resin, physical properties and pipe dimensions pertinent to this project. Polyethylene plastic pipe and fittings will be rejected if they fail to meet any requirements of this specification.

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PART 3 EXECUTION

3.1 General:

- .1 The Contractor shall implement the approved installation plan, and the approved plan submittals to monitor ground movement.
- .2 Codes and Standards. In addition to all codes and standards referenced elsewhere in the Contract Documents, all materials and equipment supplied, and work performed herein shall conform to the latest edition of the applicable industry codes, standards, references and recommended practices listed below. In case of conflict, the requirements of this specification shall prevail.
- .3 The Engineer must be notified 48 hours in advance of starting work. The Directional Bore shall not begin until the Engineer is present at the job site and agrees that proper preparations for the operation have been made.
- .4 The Engineer approval for beginning the installation shall in no way relieve the Contractor of the ultimate responsibility for the satisfactory completion of the work as authorized under the Contract. It shall be the responsibility of Engineer to provide inspection personnel at such times as appropriate without causing undue hardship by reason of delay to the Contractor.
- .5 Existing Facilities and Constraints
 - The Contractor shall be responsible for identifying the specific requirements, features, and constraints that may affect the equipment and procedures used for working around equipment and facilities at this site. The Contractor shall receive no additional compensation for extra work, equipment and expenses incurred in overcoming site constraints and location of buried facilities, including temporary and/or permanent relocation of utilities which may be required to carry out work.
 - The Contractor is responsible for identifying, locating, and confining all utilities (i.e. water lines, overhead and/or below ground power, irrigation, fiber optic and telephone, etc.), as required, along and on either side of the work areas. Unless otherwise instructed, the Contractor shall notify Owners of all the utilities, and shall comply with their requirements. All excavations within 1.5 m of buried utilities shall be performed using manual methods.
- .6 The Contractor shall be responsible for any damage to overhead and underground utilities, roadways, and rail tracks caused by their operations and shall repair and make good the damage at their own expense and in a timely manner.

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3.2 Personnel Requirements:

.1 All personnel shall be fully trained in their respective duties as part of the directional drilling crew and in safety. Each person must have at least 2 years directional drilling experience. A responsible representative who is thoroughly familiar with the equipment and type work to be performed, must be in direct charge and control of the operation at all times. In all cases the supervisor must be continually present at the job site during the actual directional Bore operation. The Contractor shall have a sufficient number of competent workers on job at all times to ensure the Directional Bore is made in a timely and satisfactory manner.

3.3 Drilling Procedure

- .1 The Contractor shall carry out clearing, grubbing and stripping, as necessary, and shall create a suitable working area of sufficient dimensions to accommodate the drill rig, mud pits and tanks, mud pumps, and other work site equipment.
- .2 The Contractor shall erect sandbag barriers, or alternative system approved by the Engineer, around the drill rig, mud pumps, mud pits and tanks, and the entry and exit pits. The sandbag barriers shall be a minimum of three (3) layers deep and shall adequately contain any anticipated fluid spillage.
- .3 DRILL PATH SURVEY: Entire drill path shall be accurately surveyed with entry and exit stakes placed in the appropriate locations. If Contractor is using a magnetic guidance system, drill path will be surveyed for any surface magnetic variations or anomalies
- .4 ENVIRONMENTAL PROTECTION: Contractor shall place silt fence between all drilling operations and any drainage, wetland, waterway or other area designated for such protection by contract documents, provincial, federal and local regulations. Additional environmental protection necessary to contain any hydraulic or drilling fluid spills shall be put in place, including berms, liners turbidity curtains and other measures. Contractor shall adhere to all applicable environmental regulations. Fuel may not be stored in bulk containers within 60 meters of any water-body or wetland.
- .5 SAFETY: Contractor shall adhere to all applicable provincial, federal and local safety regulations and all operations shall be conducted in a

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safe manner. Safety meetings shall be conducted at least weekly with a written record of attendance and topic submitted to Engineer.

.6 PIPE: Pipe shall be welded/fused together in one length, if space permits. Engineer may request that welds be X-rayed prior to being placed in bore hole. Pipe will be placed on pipe rollers before pulling into bore hole with rollers spaced close enough to prevent excessive sagging of pipe.

3.4 Surface Casing

.1 In order to facilitate the HDD installation, a steel surface casing may be required at the entry site, the exit site, or both. The requirement for casings shall be determined by the Contractor, and shall be included in the Contract Price. If required, the casings shall be of large enough diameter to permit the passage of the final hole opener and product pipe.

3.5 Directional Drill Hole Alignment and Profile

- .1 The plan and profile for the pilot hole shall be as shown on the Drawings. An alternate drill path may be designed by the Contractor. The Contractor's design shall meet the criteria for the entry and exit angles specified herein in order to match the tie-in connections at the entry and exit locations.
- .2 if an alternate drill path is proposed, it shall be submitted with supporting pulling loads and pipe stress calculations to the Engineer for approval. The Contractor's proposed drill path will be reviewed by the Engineer. The Engineer's decision on acceptability of any alternative shall be final. The Engineer's acceptance of the Contractor's proposal shall be with respect to general installation and operating considerations only, and shall not be construed in any way as relieving the Contractor of any of their obligations under the Contract.
- .3 The final plan and profile for the pilot hole shall be designed by the Contractor within the following constraints, unless prior written approval is obtained from the Engineer for variances.
- .4 The tightest compound radius of the directional drilling trajectory shall be not less 100 meters, or as otherwise shown on design drawings as governed by drill rod or pipe minimum bending radius. The drilled radius shall be calculated over any three-joint segment.

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- 5 The planned pipe alignment shall be centered within the identified right-of-ways and/or land leases.
- .6 The excavation for the drill entry and exit pits, and selection and any regarding of the pipe lay-down area, shall be developed to avoid a sudden radius change of the pipe, and consequent excessive deformation at these locations.

3.6 Joining PVC Pipe

.1 The PVC Fusion contractor must be identified in the tender documents and the Fusion Technician shall be fully qualified by IPEX to fuse fusible PVC Pipe of the type(s) and size(s) being used. Qualification shall be current as of the actual date of the tender and of fusion on the project.

3.7 Directional Drill Hole Control

- .1 The Contractor shall utilize an approved surface tracking system and a downhole steering system to monitor the position of the drill string and compute the position in the x,y, and z axes relative to ground surface a minimum of once per length of drill pipe drilled (every 10m). Deviations between the recorded position of the drill string and the specified position of the drill string shall be documented and immediately brought to the attention of the Engineer.
- .2 The Engineer shall have access to the Contractor's down hole survey and data at all times and shall be provided with an as-built copy upon completion of the pilot hole.

3.8 Directional Drill Hole Vertical and Horizontal Tolerances

- .1 The required directional tolerances are critical to facilitate the ultimate objective of installing the pipe as specified. The Contractor shall therefore maintain directional control at all times during pilot hole drilling within the following tolerances:
- .2 VERTICAL TOLERANCES: +/- 75 mm from the centerline of the planned drill path profile.
- .3 HORIZONTAL TOLERANCES: within right-of-ways, and maximum +0.5 meters or -0.5 meters from the centerline of the planned drill path plan alignment.
- .4 ENTRY POINT LOCATION: It is envisaged that the pilot hole will enter the ground from the entry point as shown on the Drawings. The Contractor may propose an alternate configuration, but this will be subject to review by the Engineer and other affected parties for changes and acceptability. And may not be accepted. The Engineer's

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decision in regard to alternate entry point locations will be final. Should the Contractor's alternate proposal not be accepted, they shall locate the entry point as shown on the Drawings, and carry out the work for the agreed Contract Price and schedule, without any additional cost to the Owner

- .5 CURVE RADIUS: The Contractor shall ensure that the maximum degree of deviation, or "dog-leg", in the pilot hole is less than 4.0 degrees or less over any 3 joint segments measured by the minimum curvature method. In the event of any deviation exceeding 2.0 degrees, the Contractor shall pullback the re-drills to meet the specifications at the Contractor's cost. If necessary, the Contractor shall plug back with cement in order to re-drills to meet the specifications at the Contractor's cost. If necessary, the Contractor shall plug back with cement in order to re-drill any portion of the hole to meet these criteria at the Contractor's cost.
- .6 At the completion of pilot hole drilling, the Contractor shall provide to the Engineer an as-built drawing drawn in AutoCAD 2010 or higher format and tabulation that defines and locates the coordinates of the drilled hole throughout its length. This shall include a copy of survey data.
- .7 All welding by Contractor or surface casing shall be in accordance with CSA Z622-96 specifications and shall likewise be x-rayed by the Contractor if desired by the Engineer.
- .8 Pilot hole shall be drilled on bore path with no deviations greater than 5% of depth over a length of 30 meters. In the event that pilot does deviate from bore path more than 5% of depth in 30 meters, contractor will notify Engineer and Engineer may require contractor to pull-back and re-drill from the location along bore path before the deviation. In the event that a drilling fluid fracture, inadvertent returns or returns loss occurs during pilot hole drilling operations, contractor shall cease drilling, wait at least 30 minutes, inject a quantity of drilling fluid with a viscosity exceeding 120 seconds as measured by a March funnel and then wait another 30 minutes.

If mud fracture or returns loss continues, contractor will cease operations and notify Engineer, Engineer and contractor will discuss additional options and work will then proceed accordingly.

.9 HOLE EXIT LOCATION. The Contractor shall obtain written confirmation from the Engineer that the actual exit location is within the specified tolerances prior to reaming. If necessary, the Contractor

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shall plug back with cement grout and re-drill pilot hole to exit within the specified tolerances.

- .10 REAMING: Upon successful completion of pilot hole, contractor will ream bore hole to 25% to 50% (depending on ground conditions) greater than outside diameter of pipe using the appropriate tools. Contractor will not attempt to ream at one time more than the drilling equipment and mud system are designed to safety handle.
- .11 DRILLING FLUID CONTROL. The Contractor shall carry out the work in such a manner as to minimize the possibility of drilling fluid loss to the environment, or break outs of drilling fluid to surface.
- .12 PIPE STRINGING, FABRICATION AND PRE-TESTING OF WATER MAIN. The Contractor shall string the fabricate the pipe in sufficient length such that any elastic strain recover in the pipe after pull back can be accommodated for and that installation is completed as shown on the drawings. Depending on the scheduling and approach to the work, it may not be possible to assemble the pipes in one continuous length for pulling. Prior to pull back, each section of pipe shall be pressure tested as specified unless specified otherwise.
- .13 PULL-BACK: Immediately upon completion of the cleaning pass(es) the Contractor shall, as soon as possible, rig up and commence the pull back operations. The pullback operation shall be continuous without interruption until completed, except for planned intermediate pipe joints. The Contractor shall have on hand sufficient labor and equipment to minimize the length of time taken for making the pipe joints.

Pipe pull back length shall be determined to ensure that tensile pull stresses of the pipe are not exceeded.

The pull section shall be supported with cranes, side booms and pipe rollers as it proceeds during pull back so that it moves freely without damaging the pipe or any coating.

Cranes or extended side booms shall be used where necessary to provide sufficient clearance over roadways, railway and access roads to allow safe uninterrupted traffic during the entire pull back operations.

The Contractor shall, at their expense, provide equipment to continuously monitor the pulling forces during the pull back operations.

Horizontal Directional Drilling

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A record indicating break out force and average pull force for each drill stem shall be kept along with the start and stop times.

The Contractor shall pull a sufficient length of pipe such that any elastic strain recovery in the pipe after pull-back can be accommodated for, and that the ends of the pipe are terminated at the specified elevations in preparation for the tie-in connections at the entry and exit points as per the drawings.

The Contractor is responsible for any damage to the pipe during the work. The Engineer will inspect the first 10 meters of pipe coming out of the hole on the rig side for any damage and if damage is observed, the Contractor will be required to submit a plan to the Engineer outlining proposed remedial measures and then implement the remedial measures, at the Contractors expense.

.15 BUOYANCY CONTROL: The Contractor shall make provisions for buoyancy control during the pull back operations. The weight of the pipe and contents shall be controlled as it is pulled through the hole to minimize the pulling forces, and maintain them within the specified pipe tolerances and those established by the Contractor in their design.

After successfully reaming bore hole to the required diameter, contractor will pull the pipe through the bore hole. In front of the pipe will be swivel and reamer to compact bore hole walls. Once pullback operations have commenced, operations must continue without interruption until pipe is completely pulled into the borehole. During pullback operations contractor will not apply more than the maximum safe pipe pull pressures at any time. In the event that pipe becomes stuck, contractor will cease pulling operations to allow any potential hydro-lock to subside before re-commencing pulling operations. If subside before re-commencing pulling operations. If pipe remains stuck, contractor will notify Engineer. Engineer and contractor will discuss options and then work will proceed accordingly.

Once the hole has been reamed to full diameter, the Contractor shall pull back the water main and insert into the reamed hole. The Contractor shall ensure the ends of the sanitary sewer main are terminated at the specified elevations in preparation for the tie-in connections at the entry and exit points as per drawings.

CoSA Supplemental Master	Horizontal Directional Drilling	Section 33 11 02S
Municipal Specifications		Page 23 of 23
	The Contractor shall ensure that during th	e pull back of the pipe, that
	the pipe is hydrostatically sealed so as material into the pipeline.	to prevent ingress of any
	Upon completion of installation, the Cor hydrostatic pressure tests on the fully water	
	The Contractor shall be responsible for the water from the designated source, sub-included herein, and any other applicable in	oject to the specifications
3.10 Site . Restoration	1 Following drilling operations, contractor wi and restore the work-site to original o excavations will be backfilled and compa density.	r better condition. All

CoSA Supplemental Master	Horizontal Directional Drilling	Section 33 11 02S
Municipal Specifications		Page 24 of 1

2.3 Service Connections

Add: .11 Inspection Chambers to be installed as per City Supplement Standard Drawing SAN-6 and lids shall be coloured red.

2.4 Concrete

Replace: .2 Concrete to be a minimum compressive strength of 25mPa at 28 days.

2.5 Granular Pipe Bedding and Surround Material

Add: .3 Trench dams as specified on the contract drawings.

3.6 Pipe Installation

Replace: .3 Horizontal tolerances: plus or minus 10 mm from specified alignment;

Vertical tolerances: plus or minus 5 mm from specified grade. Reverse

grade is not acceptable

Replace: .6 Joint and Pipe deflection not permitted unless otherwise approved by the

City Engineer.

CoSA Supplemental Master Sanitary Pipe Relining Section 33 30 02S Municipal Specifications Page 1 of 5

PART 1 GENERAL

1.1 General

- .1 The works specified in the section consists of furnishing and installing underground utilities using the manual relining method of installation. This work shall include all services, equipment, materials, and labor for the complete and utilities and environmental protection and restoration.
- .2 This section must be referenced to and interpreted simultaneously with all other sections pertinent to the works described herein.

1.2 Related Work

.1	Traffic Control, Vehicle Access, and Parking	Section 01 55 00
.2	Excavating, Trenching, and Backfilling	Section 31 23 01
.3	Trenchless Sewer Pipe Bursting	Section 33 05 23
.4	Cured in Place Pipe Liners	Section 33 05 24
.5	Sanitary Sewer	Section 33 30 01
.6	Manholes & Catchbasins	Section 33 44 01

1.3 Definitions

- .1 Outside Diameter— (OD) The average measured distance in a straight line from one point on the outer wall of the pipe, through its center, to an opposite point also on the outside of the pipe.
- .2 Inside Diameter— (ID) The average measured distance in a straight line from one point on the inner wall of the pipe, through its center, to an opposite point also on the inside of the pipe.

1.4 Quality Assurance

- .1 The Contractor shall, at their expense, provide equipment to continuously monitor the pulling forces during the pipe pull through pulling operations.
- .2 The Contractor shall pull a sufficient length of pipe such that any elastic strain recovery in the pipe after pull-back can be accommodated for, and that the ends of the pipe are terminated at the specified elevations in preparation for the tie-in connections at the entry and exit points as per the contract drawings.
- .3 The Contractor is responsible for any damage to the pipe during the work. All remedial works are to be at the Contractors expense.
- .4 In the event that pipe becomes stuck, the contractor will cease pulling operations to allow any potential hydro-lock to subside before re-commencing pulling operations. If pipe remains stuck, contractor will notify the Engineer. Engineer and contractor will discuss options and then work will proceed accordingly.
- .5 The Contractor shall submit for approval the following information to the Contract Administrator for each manhole-to-manhole section at least seven (7) days prior to the commencement of any work:
 - .1 Proposed sequence of construction.
 - .2 Location and dimensions of entry and exist pits including staging areas and pipe storage areas.

CoSA Supplemental Master Sanitary Pipe Relining Section 33 30 02S Municipal Specifications Page 2 of 5

- .3 Method of dewatering including disposal (if required).
- .4 Bypass pumping arrangement (in required).
- .5 Method of pulling and description equipment.
- .6 Copy of certificate for fusion equipment operator listing fusion training and training organization.
- .7 HDPE pipe manufacturer's recommended fusion procedures including point interfacial pressures and heater temperature.
- .8 Maintenance records and pressure gauge calibration for fusion machine.
- .9 Maximum permissible tensile forces on HDPE.
- .10 Details of selected lubrication product.
- .11 Traffic management plan.
- .12 Safety procedures and certificate of satisfactory first aid training.
- .13 Sediment and lubrication control details.
- .14 Schedule of expected interruptions and reconnect time.
- .15 Method of construction and restoration of existing sewer to services and manhole connections.

1.5 Codes and Standards

- .1 In addition to all codes and standards referenced elsewhere in the Contract Documents, all materials and equipment supplied and work performed herein shall conform to the latest edition of the applicable industry codes, standards, references and recommended practices listed below. In case of conflict, the requirements of this specification shall prevail.
 - ASTM F-714: Standard Specification for Polyethylene (PE) Plastic Pipe (SDR-PR). Based on outside diameter.
 - ASTM D-1248: Standard Specification for Polyethylene Plastics Molding and extrusion Materials.
 - ASTM D-3350: Standard Specification for Polyethylene Plastics Pipe and Fittings Materials. CSA B137.1: Polyethylene Pipe Tubing and Fittings for Cold Water Pressure Services.
 - ASTM D-3505: Standard Specification for Polyethylene (PE) Plastic Pipe (SDR-PR). Based on Controlled Outside Diameter.
 - ISO 9002: Model for Quality Assurance in Production and Installation.
 - ASTM D-2657: Heat Joining Polyolefin Pipe and Fittings.

1.6 Materials Supplied by the Owner

- .1 The Owner will provide the Right of Way for the work and the Work and Storage Areas.
- .2 The Owner will provide water at a source near the site. The Contractor shall provide an approved valve through which they can draw water. The hydrant valve and/or hydrant shall not be used to control water. The hydrant shall be securely closed when no work is actively being carried out. Water shall not be wasted; if it is, the Engineer may terminate the supply and the Contractor shall then be responsible for obtaining water elsewhere.

1.7 Mobilization

Sanitary Pipe Relining

Section 33 30 02S Page 3 of 5

.1 Mobilization for the works covered by this Specification shall include the assembly and transportation to the works Site of all equipment, materials and personnel necessary to perform the Work. This shall include, but not be limited to the following items:

- Relining materials
- Relining Equipment
- Grouting equipment
- Procurement of all permits and licenses for the execution of the Works, except for those obtained by the Owner; and Approval by the Engineer of all preconstruction submittals required by this Specification.
- .2 Mobilization and site preparation shall not be considered complete until the above equipment has been completely rigged up and in position at the site and ready to commence work.

1.8 Right of Way and Work and Storage Area

- .1 The contractor is responsible for abiding to both City of Salmon Arm and Ministry of Transportation and Infrastructure bylaws, regulations or as otherwise outlined in subsequent permits. The Contractor is advised that all operations must be strictly confined to the areas identified unless they obtain specific permission.
- .2 The Contractor shall familiarize themselves with the layout areas and make such allowances as may be necessary for any stops and intermediate welds. Any additional working space required by the Contractor for such uses as pipe(s) layout, Storage of spoil material, equipment turnarounds, vehicle servicing and fueling yards, access to the right-of-way and other requirements shall be obtained by the Contractor at the Contractor's expense and such agreements shall meet the Owner's requirements. The Contractor shall provide a copy of all such agreements made with the occupants to the Owner prior to the use of the additional work areas covered by those agreements.
- .3 The pipe shall be installed to the alignment and elevation shown on the drawings unless approved otherwise. The Owner shall have the right to make any changes necessary in the location of the proposed sanitary sewer or appurtenances, and if the change results in increasing or decreasing the cost of the Contractor in comparison with what its cost would have been had no change been made, the Contract Price will be equitably adjusted.

1.9 Access

- .1 Access to the site shall be through the existing Municipal Road ways and Right of ways in accordance with the Contract Documents. The Contractor shall provide cleared work areas at the entry and exit sites, and shall ensure suitably dry working conditions.
- .2 Except as specifically noted herein, uninterrupted vehicle traffic movement shall be maintained at all times on all public roads and private access points. The Contractor shall identify within their work plan the proposed site preparation work, equipment, and procedures to satisfy this requirement. The Contractor shall be responsible for all traffic control and obtaining traffic control permits and carrying out their requirements if necessary.
- .3 When its operations are conflicting with normal traffic, the Contractor shall provide suitable detours, at the discretion of the Owner. All detours shall be clearly marked

Sanitary Pipe Relining

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to the satisfaction of the Engineer. The Contractor shall furnish and maintain all necessary day and night warning signs, flares lanterns, barricades and flagmen when working on near roads, highways, or traffic ways, to protect all persons from injury and property from damage, and to warn the drivers of vehicles of the obstruction.

1.10 Measurement and Payment

- .1 All units of measurement for payment will be as specified herein unless shown otherwise in Form of Tender. If not shown in Form of Tender, works are deemed to be incidental to other items of work.
- .2 Measurement for payment for sewer relining will be made in lineal meters for each payment item described in Form of Tender.
- .3 Measurement for payment for sewer relining will be made based on center to center distances between manholes as measured in the field by Engineer's Inspector and verified by the Contractor. An amount totaling 10% of agreed length will be withheld from payment until final post lining and post sealing CCTV inspection reports have been received and reviewed for acceptance by the Engineer. CCTV inspection reports must be received by the Engineer no later than two (2) weeks after completion of works.

2.1 Pipe

- .1 All pipe used for horizontal directional drilling shall be:
 - 175mm High Density Polyethylene (HDPE) DR 32.5.
- .2 All pipe shall be made of virgin material. No reworked material except that obtained from the manufacturer's own production of the same formulation shall be used.
- .3 The pipe shall be homogenous throughout and shall be free of cracks, holes, foreign material, blisters or other deleterious faults.
- .4 Material color shall be black.
- .5 Damaged pipe shall be removed. Other methods of repairing the damaged conduit may be used, as recommended by the manufacturer and approved by the Engineer.
- .6 The pipe manufacturer's design pipe loads shall not be exceeded during the installation process. The pipe shall be designed to take full account of all temporary installation loads. The pipe materials acceptable for relining will be specified in the Contract Documents.
- .7 The maximum pulling capacity used shall not exceed the allowable pulling capacity of the pipe that has a minimum factor of safety of 2.0.

3.1 Joining Polyethylene Pipe

- .1 Polyethylene pipe shall be joined by thermal butt fusion in accordance with ASTM D2657 and as recommended by the pipe manufacturer. The temperature of the heater plate shall not exceed 210°C +/-5°C, 410°F +/10°F, and the joining pressure shall not exceed 172 kpa, 25psi of projected end area excluding an allowance for friction.
- .2 Polyethylene pipe shall be joined to other systems by means of an assembly consisting of polyethylene stub end, but fused to pipe, a backup flange of ductile iron in accordance with ANSE B16.11 B16.5 modified as recommended by pipe

Sanitary Pipe Relining

Section 33 30 02S Page 5 of 5

supplier. 316 Stainless steel bolts, and neoprene or red rubber gasket cut to fit the joint. Care shall be taken to draw up the butts uniformly.

3.2 Pipe Installation

.1 The Contractor shall be responsible for the installation of the pipe and all associated work unless specified otherwise. The method of installation will depend on the type of liner used. The handling and installation of the pipe shall be in accordance with the manufacturer's specifications.

.2 Line obstructions:

- .1 The Contractor shall be responsible for clearing any line obstructions such as solids, protruding connections, broken pipe or roots that will prevent the insertion of the liner. If inspection reveals an obstruction that cannot be removed by 'no dig' techniques, the Owner will make a point excavation to uncover, remove or repair the obstruction.
- .2 The Contractor will not be reimbursed for damages or lost time while the Owner completes the point excavation and repair.
- .3 Complete CCTV inspection before liner installation in accordance with Specification 33 01 30.1, submit pre-lining inspection recording / DVD and report to Contract Administrator with post-lining final inspection recording / DVD and reports.
- .3 The finished pipe shall be continuous over the entire length on an insertion run and shall be free from visual defects such as foreign inclusions, dry spots, pinholes and delamination.
- .4 The pipe ends in the manhole shall be tight fitting and shall require application of a watertight sealing product at the terminal points. The sealing product shall be compatible with the pipe. Any lip or obstruction created by the pipe shall be gently tapered. The liner ends shall not obstruct sewerage flow.

END OF SECTION

CoSA Supplemental Master Sanitary Pipe Relining Section 33 30 02S Municipal Specifications Page 6 of 1

2.6 Service Connections

Replace: .1 Storm sewer service connections to be 150 mm minimum diameter;

maximum diameter as specified on the Contract Drawings.

Replace: .2 Storm sewer service connections 150 mm diameter to be PVC type PSM

DR 28 sewer pipe.

Add: .11 Inspection Chambers to be installed as per City Supplement Standard

Drawing ST-6 and lids shall be coloured green.

2.8 Concrete

Replace: .2 Concrete to be a minimum compressive strength of 25mPa at 28 days.

2.9 Granular Pipe Bedding and Surround Material

Add: .3 Trench dams as specified on the contract drawings.

3.6 Pipe Installation

Replace: .3 Horizontal tolerances: plus or minus 20 mm from specified alignment;

Vertical tolerances: plus or minus 10 mm from specified grade. Reverse

grade is not acceptable

Replace: .6 Joint and Pipe deflection not permitted unless otherwise approved by the

City Engineer.

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Municipal Specifications	and Catchbasins	Page 1 of 1

2.1 Materials

Add: .7.4 Cover must be labelled with the appropriate utility: "SANITARY", "STORM", or "WATER".

Add: .24 Fiberglass Manhole Liners

- .1 Fibreglass manhole liners shall be one piece consisting of unlayered homogeneous fibreglass reinforced plastic with full flow channels with side walls to crown of pipe, watertight gasketed bells graded and aligned to comply with design to suit specified pipe, inner surface of liner benching to have anti skid surface, outer surface of liner to be sand coated and to have sufficient steel spirals bonded to the fibreglass reinforced plastic to assure a continuous physical connection to the concrete base.
- .2 Pre benched manhole fibreglass reinforced plastic liners as specified on the contract drawings and in accordance with the Manufacturer's specifications.
- Add: .25 Trapping Hoods: All catchbasin leads to be supplied with trapping hoods within the catchbasin which shall be 200mm diameter aluminum.
- Add: .26 Orifice Control Devices shall be installed as per approved engineering drawings.

Subdivision and Development Servicing Bylaw No. 4293 Schedule "C"



CITY OF SALMON ARM FORMS

CONTENTS

F-1	Permission to Construct
F-2	Certificate of Inspection
F-3	Certificate of Inspection – Strata Subdivision
F-4	Certificate of Substantial Completion
F-5	Certificate of Completion
F-6	Certificate of Final Acceptance
F-7	Private Well Certification
F-8	Professional Assurance Certificate
F-9	Form of Letter of Credit
F-10	Hydrant Flow Test Report Form (Available in Excel format from CSA)
F-11	Flushing / Testing / Disinfection Report



PERMISSION TO CONSTRUCT

Authorization to proceed with construction is hereby granted to:			
NAME OF DEVELOPER	:		
ADDRESS:			
For the works described	generally as:		
Authorized Start Date:	Estimated Completion Date:		
Check the following:			
Construction	n plans approved		
Certificates	of insurance received		
Waterworks	Waterworks Construction Permit (provided by Interior Health Authority)		
Security dep	Security deposit has been paid		
A Servicing Agreement has been completed – No			
Latecomer V	Vaiver/Agreement adopted		
Design Engineer			
Contact:			
Business Tel:			
Special Conditions:			
	CITY ENGINEER		
c.c. Contractor	File No:		



CERTIFICATE OF INSPECTION

I hereby certify that all engineering and construction services, required under Subdivision and Development Servicing Bylaw No. 4163 of the City of Salmon Arm for the subdivision of: LEGAL DESCRIPTION: PROJECT NO: Which services were designed by: NAME OF FIRM: _____ ADDRESS: ______ And approved for construction on drawing numbers: Drawing No. Date Drawing No. Date Have been inspected by or under the direction of: I further certify that the "Record Drawings" hereby submitted represent the works and services as installed for the aforementioned subdivision.

Engineer's Seal

Signature and name of the Professional Engineer responsible for Design



CERTIFICATE OF INSPECTION STRATA SUBDIVISION

I hereby certify that all engineering and construction services, required under Subdivision and Development Servicing Bylaw No. 4163 of the City of Salmon Arm and/or good engineering practice for the strata subdivision of:

LEGAL DESCRIPTION	l:			
PROJECT NO:				
Which services were de	esigned by:			
NAME OF FIRM:				
ADDRESS:				
And approved for const	truction on drawing nur	mbers:		
Drawing No.	Date		Drawing No.	Date
				-
Have been inspected b	ov or under the direction	n of		
Tiavo soon mopootoa s	y or amade and amound			
I further certify that th installed for the aforem		hereby s	ubmitted represent the	works and services as
		-	Signature and name of the Engineer responsible	
Engineer's	s Seal		J	Ŭ



CERTIFICATE OF SUBSTANTIAL COMPLETION

DEVELOPER:	
CONTRACTOR:	
PROJECT NO:	
FILE NO:	
SERVICING AGREEMENT NO:	
DATE:	
This certificate is issued pursuant to Schedule "B", Part applies to the following Works and Services:	1, of Subdivision and Development Servicing Bylaw No. 4163 and
Roads and Civil Works	Sanitary Sewer System
Drainage and Storm Sewer System	Waterworks System
The MAINTENANCE PERIOD of year(s) for the V	Vorks & Services will begin on
Maintenance Bonding in the amount of \$ has	s been received and will be returned upon Final Acceptance.
	eficiencies have been corrected. The Certificate of Final Acceptance II deficiencies that have arisen over the year have been corrected, and Servicing Agreement have been fulfilled.
acceptance of any work not in accordance with the requir	Ingineer's knowledge, information and belief. It does not constitute rements of Subdivision and Development Servicing Bylaw No. 4163, defect(s) could have been observed or discovered during construction.
The following is a LIST OF DEFICIENCIES related to	the Work:
	City Engineer



CERTIFICATE OF COMPLETION

DEVELOPER:	
CONTRACTOR:	
PROJECT:	
FILE NO:	
LOCATION:	
DATE:	
The final construction inspection was held on have been addressed to City satisfaction.	n and all deficient items
I, Consulting Er works reflect City of Salmon Arm standards a in accordance with the approved construction p	ngineer of hereby certify that all nd specifications, and that all works have been completed plans.
SEAL	Consulting Engineer
•	of this certificate does not represent acceptance of the work, in prejudice any requirements of the agreement with the r of any of his/her responsibilities thereunder.
	City of Salmon Arm



CERTIFICATE OF FINAL ACCEPTANCE

DEVELOPER:							
CONTRACTOR:							
PROJECT NO:							
FILE NO:							
SERVICING AGREEMENT NO:							
DATE:							
All deficiencies, defects or faults in the of this Certificate having been rectificate having been rectificate.							
This Certificate has been made to the does not constitute acceptance of an Agreement, whether or not such defect	y work not	in accor	dance with the	requireme	ents of t	he Servic	ing
This certificate permits the releas	se of the	project	maintenance	security	in the	amount	of
		City En	gineer				
		City En	gineer				



PRIVATE WELL CERTIFICATION

Pursuant the Subdivision and Development Servicing Bylaw No. 4163 which requires that each lot to be created and/or each existing lot forming part of the proposed development can be serviced with potable water in accordance with the requirements of the Bylaw for the development of:

LEGAL DESCRIPTION:	
PROJECT NO:	
I certify that a quantity of not less than 2,500 litres per da each existing or proposed lot in the development.	ay on a year round basis has been proven for
I certify that each well within the subdivision has been tes water at a rate of 9 litres per minute for a four hour period.	
I certify that water quality tests have been conducted and t 1996, as amended" can be met for each existing or propos	
Certified by:	
Signature and Name of Professional Engineer or Qualified Well Driller (where applicable)	
Address	
	Engineer's Seal
	(where applicable)

(on company letterhead)

"PROFESSIONAL ASSURANCE CERTIFICATE"

The City of Salmon Arm PO Box 40 Salmon Arm, BC V1E 4N2

Attention: City Engineer

Dear Sir:

RE: NAME OF SUBDIVISION OR DEVELOPMENT AND ADDRESS

I, (Owner's Name) have retained (Consultant's Name) as my/our Professional Engineer ("Consultant"), to undertake and/or co-ordinate and review all associated design criteria and "field reviews" required for this project. It is understood that my "Consultant" will take all such steps as regulated under the Provincial Statute for his/her profession and by the definition of "field reviews" herein under set forth, to ascertain that the design will comply and construction of the project will substantially conform in all material respects with the provisions of the City of Salmon Arm's Subdivision and Development Servicing Bylaw No. 4163, all other amendment thereof, and other applicable permits, Bylaws, Acts and regulations which apply to this project. My "Consultant" will also ensure that all work is completed in accordance with the construction drawings approved by the City of Salmon Arm. My consultant will ascertain that only qualified personnel are retained to carry out tests, inspect or carry out design work and detailing "field reviews".

As used herein, "field review" shall mean such reviews of the work at the project site at the fabrication locations, where applicable, as the "Consultant", in his/her professional discretion, considers necessary in order to ascertain that the work substantially conforms in all material respects to the plans and supporting documents "accepted" by the City of Salmon Arm. This will include keeping records of all site visits and any corrective actions taken as a result thereof.

The undersigned has given a contractual mandate to the "Consultant" to review reports of other testing and inspection agencies and disciplines where necessary, comment on their acceptability, determine the corrective action to take if unacceptable, and maintain a detailed record of every such report and comments thereof. The "Consultant" will automatically submit a monthly summary progress report to the City Engineer, including all field report and change orders.

Note:

The owner will notify the City Engineer in writing thirty (30) days prior to the intended termination of or by the "Consultant". It is understood that the work on the above-project will cease as of the effective date of termination, until such time as a new appointment is made.

Witness Name (Print)	Owner's Name (Print)
Witness Signature	(Owner or Owner's Appointed Agents Signature)
Address (Print)	Date
Occupation	Title of Agent (if applicable)
	Address (Print)
	The Corporate Seal of
	was hereunto affixed in the presence of:

The above must be signed by the Owner or his/her appointed Agent. The signature must be witnessed. If the Owner is a company, the corporate seal of the company must be affixed to the document in the presence of it's duly authorized officers. The officers must also sign, setting forth their positions in the company.

comply and construction of the project will subst Bylaws as set out above and will submit letter of as needed, for the approval of the subdivision of	s been retained to ascertain that the design will antially conform in all material respects with the of Professional Design Assurances from others, or development. Furthermore, the "Consultant" carries liability insurance in the amount of
·	ork provide "CERTIFICATE OF INSPECTION" upon completion all supporting documentation of the work.
Name of Professional (Print)	Signature of Professional
	Date
	Mailing Address (Print) Phone

FORM OF LETTER OF CREDIT (TO BE ON BANK LETTERHEAD)

Letter of Credit No.:	Amount \$
Initial Expiry Date:	
CITY OF SALMON ARM 500 - 2 AVENUE NE BOX 40 SALMON ARM BC V1E 4N2	
	OU TO DRAW ON THE (name and address of bank) for the account of UP TO AN AGGREGATE AMOUNT OF (dollars in writing and in
bank) hereby establish and give which may be drawn on by you made upon us by you, which de	ST OF our customer, (name of Developer/Contractor), we the (name of you an Irrevocable Letter of Credit in your favour in the above amount at any time and from time to time, upon written demand for payment mand we shall honour without enquiring whether you have the right as stomer to make such demand, and without recognizing any claim or our to payment by us.
	understand relates to those services and financial obligations set out in an r and the CITY OF SALMON ARM and referred to as (description of
THIS LETTER OF CREDIT wi condition hereinafter set forth.	ll continue in force for a period of one year, but shall be subject to the
amendment from year to year fro prior to the present or any future	ter of Credit that it shall be deemed to be automatically extended without m the present or any future expiration date hereof, unless at least 30 days expiration date, we notify you in writing by registered mail that we elect dit to be renewable for any additional period.
DATED at	_, British Columbia this,,
COUNTERSIGNED BY:	(name of bank)
	per:



CITY OF SALMON ARM ENGINEERING DEPARTMENT

HYDRANT FLOW TEST

TEST DATE: TEST TIME:		COMPLETED BY:				
GAUGE HYDRAN	<u>T:</u>		Flow Test #	1	Flow Test #	ŧ 2
HYDRANT NUMBE		_MAKE & MODEL: VALVE LOCATION	N:	MAIN S	SIZE:	
	STATIC PRES			psi psi	0	_psi _psi
FLOW HYDRANT	<u>:</u>		Flow Test #1		Flow Test # 2	2
HYDRANT NUMBE HYDRANT LOCATI		MAKE & MODEL: VALVE LOCATION	N:	MAIN S	SIZ <u>E:</u>	_
NFPA Section 2.3 :	FLOW OPENII NUMBER OF	SSURE: E READING (PRESSURE): NG DIAMETER: PORTS OPEN: :SSURE>25% FOR VALID TES	2.5 1 ST #DIV/0!	psi psi inches ports	2.5 2 #DIV/0!	psi psi inches ports
FLOW CALCULAT	IONS					
G = 24.84*D^2*C*P^.5 G = FLOW IN igpm D = NOZZLE DIAMETER IN P = PITOT GAUGE READING C = COEFFICIENT (USUALL)	G IN psi		E IN igpm. SE DURING TEST IN igp RE FROM ORIGINAL V. AT GAUGE HYDRANT L IN psi.	m. ALUE		
			Flow Test#1		Flow Test#2	2
CALCULATED FL	OW AT FLOW	V HYDRAN =	0	igpm	0	_igpm
THEORETICAL F AT A DESIRED R	_		*#DIV/0!	igpm.	#DIV/0!	_igpm.
Based on this hy	drant flow te	st, and background demar	nd at time of tl	ne test	t, the theoret	ical
flow at Hydrant	0	•	at a residual p			



FLUSHING/TESTING/ DISINFECTION REPORT

PROJECT:		DATE:
LOCATION:		FILE #:
DESCRIPTION:		
FLUSHING: Water source:	Minimum flushin	ng volume (Pipe volume x 3):
Estimated flow rate: Estima	ated flow time require	ed: Flushing completed:
PRESSURE TEST:		
Allowable leakage = $NDP^{1/2}/(65000)(2Ha)$	r)	
N = Number of pipe joints =	D = Nominal diam	neter of pipe (mm) =
Static Pressure: P = Avera	age test pressure duri Minimum 1,380 kPa (200 psi))	ng leakage test =
Allowable leakage calculated:	Start time:	End time:
Test leakage recorded: Pass	:: Fail:	
DISINFECTION:		
Chlorine source: Calculated	l dosage:	Background residual:
Start time Starting residual:	End time : _	End residual:
Chlorine flushed: 24 Hour s	stand time Start:	End:
BIOLOGICAL TEST:		
Sample: Date: Time:	Testing Lab:	
Number of samples required: S	ample(s) collected by	y:
Test results: Pass: Fail:	(Copy of lab results	attached)
Testing/flushing points removed:		



FLUSHING/TESTING/ DISINFECTION REPORT

CONSULTING ENGINEERS CERTIF I hereby certify that all flushing, disinfecti requirements of Subdivision and Develope	ion and testing has been completed in accordance with the
	Signature and name of the Consulting Engineer responsible for Design
Engineer's Seal	
CITY CONNECTION APPROVAL:	
Date	City Engineer

Subdivision and Development Servicing Bylaw No. 4293
Schedule "D"



CITY OF SALMON ARM APPROVED MATERIAL LIST



TO:

His Worship Mayor Harrison and Council

DATE:

June 09, 2023

FROM:

Maurice Roy

Manager of Permits and Licensing

SUBJECT:

Appointment of a Bylaw Officer

Staff Recommendation:

- 1. THAT Debbie Wood be appointed as Bylaw Enforcement Officer, in accordance with Section 36 of the Police Act,
- 2. AND THAT such appointment be for the term of her contractual employment as Bylaw Enforcement Officer for the City of Salmon Arm.

BACKGROUND:

A summons is the legal process to summon an alleged offender to attend provincial court to appear before a magistrate. A review of the Offence Act has revealed that in order for a Bylaw Enforcement Officer to serve a "Summons" to an alleged offender, the issuing officer must appointed as an officer of the municipality under Section 36 of the Police Act.

Respectfully submitted,

Maurice Roy, RBO/CRBO

Manager of Permits & Licensing

MR:mr

Bylaw enforcement officers

- **36** (1) Bylaw enforcement officers may be appointed,
- (a) by a municipal police board, or
- (b) if there is no municipal police board in a municipality, by the municipal council.
- (2) A bylaw enforcement officer must be paid the remuneration and is appointed for the term that the municipal police board or municipal council determines.
- (3) A bylaw enforcement officer must, under the direction of the chief constable or officer in charge of the detachment of police operating in the municipality, perform the functions and duties, and has the powers, privileges and responsibilities respecting the enforcement of municipal bylaws, that the municipal police board or municipal council specifies in the appointment.

Offence Act

Service on individual

- 28 (1) Subject to subsection (3), a summons must be served by a peace officer or enforcement officer, who must deliver it personally to the person to whom it is directed, or, if that person cannot conveniently be found, must leave it for the person at the person's last or usual residence with an occupant of it who appears to be at least 16 years of age.
- (2) For the purposes of the service of a summons in respect of an alleged offence under a bylaw of a municipality, a peace officer includes a bylaw enforcement officer appointed under section 36 of the *Police Act*.
- (3) A summons in respect of an alleged offence under a bylaw of a municipality or regional district may be served in the manner set out in subsection (1) by a person appointed for that purpose by the council of the municipality or the board of the regional district.
- (4) For the purposes of this section, a person appointed under subsection (3) has the legal status of a peace officer.