

CITY OF KELOWNA

MEMORANDUM

Date:

May 28, 2018

File No.:

Z18-0061

To:

Planning & Development Services Department (LK)

From:

Development Engineer Manager (JK)

Subject:

2960 Sexsmith Rd.,

Lots 33, Plan KAP18861

A1 - 16

Development Engineering has the following comments and requirements associated with this application rezone the subject property from A-1 to I6 are as follows:

1. General

a) Access to the subject lots must ultimately be achieved off of Palomino Road or north half of Arab Rd.as Sexsmith Road is designated as a 4 lane arterial and access will be restricted. Until such time that Palomino Road is built, the subject property is granted access onto Sexsmith Road under the condition

2. Sanitary Sewer System

- a) The developer's consulting mechanical engineer will determine the development requirements of the proposed development and establish the service needs. Only one service per lot will be permitted for this development. There is an existing 100mm PVC sanitary service to lot.
- a) The Connection Area #35 charge is currently set by Bylaw at \$13,300 per Single Family Equivalent (SFE). This Bylaw was reviewed for and accepted by Council in 2018.

determined by the following formula: the first 0.36 acres of developed land or portion thereof equals 1 SFE. Thereafter 2.8 SFE's per acre of developed land.

The assessed value is 5.144 Acres is \$68,415.20

3. Water Servicing Requirements

This development is within the service area of the Glenmore Ellison Irrigation District (GEID). The developer is required to make satisfactory arrangements with the GEID for these items. All charges for service connection and upgrading costs are to be paid directly to the GEID. The developer is required to provide a confirmation that the district is capable of supplying fire flow in accordance with the City of Kelowna current Bylaws and Policies.

4. Storm Drainage

A comprehensive site drainage management plan and design to comply with the City's drainage design and policy manual By-Law 7900 is required.

5. Road Improvements

- a.) The frontage of Sexsmith Road will be upgraded to a full 4 lane arterial urban standard (SS-R9) in accordance with Bylaw 7900, complete with curb and gutter, storm works, sidewalk, fillet paving, landscaped and irrigated boulevard, lane markings, street lighting, removal and/or relocation existing utilities as may be required, etc. This construction will be deferred until Sexsmith Road is upgraded to a 4 lane standard and a cash in lieu of construction payment of \$73,209.38 is required for the combined frontage of the subject property.
- b.) Palomino Road must be upgraded to an urban standard (SS-R5) along the full frontage of this proposed development, including curb and gutter, street lights, 1.5m sidewalk, drainage system including catch basins, manholes and pavement removal and replacement and relocation or adjustment of utility appurtenances if required to accommodate the upgrading construction.
- c.) Arab Road must be upgraded to an urban standard (SS-R5) along the full frontage of this proposed development, including curb and gutter, 1.5m sidewalk, drainage system including catch basins, manholes and pavement removal and replacement and re-location or adjustment of utility appurtenances if required to accommodate the upgrading construction.

6. Road Dedication and Subdivision Requirements

- (a) The developer is required dedicate 5m of roadway fronting Sexsmith Road to achieve the 4 lane arterial urban standard width in accordance with Bylaw 7900
- (b) Provide 6m corner rounding at intersection of Sexsmith Road and Arab Road.
- (c) Grant Statutory Rights Of Way if required for utility services.
- (d) If any road dedication or closure affects lands encumbered by a Utility right-of-way (such as Hydro, Telus, Gas, etc.) please obtain the approval of the utility. Any works required by the utility as a consequence of the road dedication or closure must be incorporated in the construction drawings submitted to the City's Development Manager.

7. Power and Telecommunication Services

The services to this development are to be installed underground. It is the developer's responsibility to make a servicing application to the respective utility companies. The utility companies are then required to obtain the city's approval before commencing their works.

8. Design and Construction

- a) Design, construction supervision and inspection of all off-site civil works and site servicing must be performed by a Consulting Civil Engineer and all such work is subject to the approval of the City Engineer. Drawings must conform to City standards and requirements.
- b) Engineering drawing submissions are to be in accordance with the City's "Engineering Drawing Submission Requirements" Policy. Please note the number of sets and drawings required for submissions.
- c) Quality Control and Assurance Plans must be provided in accordance with the Subdivision, Development & Servicing Bylaw No. 7900 (refer to Part 5 and Schedule 3).

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- d) A "Consulting Engineering Confirmation Letter" (City document 'C') must be completed prior to submission of any designs.
- e) Before any construction related to the requirements of this subdivision application commences, design drawings prepared by a professional engineer must be submitted to the City's Works & Utilities Department. The design drawings must first be "Issued for Construction" by the City Engineer. On examination of design drawings, it may be determined that rights-of-way are required for current or future needs.

9. Servicing Agreements for Works and Services

- a) A Servicing Agreement is required for all works and services on City lands in accordance with the Subdivision, Development & Servicing Bylaw No. 7900. The applicant's Engineer, prior to preparation of Servicing Agreements, must provide adequate drawings and estimates for the required works. The Servicing Agreement must be in the form as described in Schedule 2 of the bylaw.
- b) Part 3, "Security for Works and Services", of the Bylaw, describes the Bonding and Insurance requirements of the Owner. The liability limit is not to be less than \$5,000,000 and the City is to be named on the insurance policy as an additional insured.

10. DCC Credits

None of the required improvements qualify for DCC credit consideration,

11. Bonding and Levies Summary

Levies

Sexsmith Road upgrades \$73,209.38 Connection Area #35 charge \$68,415.20

Total levies \$141,624.58

12. Administration Charge

a. An administration charge will be assessed for processing of this application, review and approval of engineering designs and construction inspection. The administration charge is calculated as (3.5% of Total Off-Site Construction Cost plus GST).

13. Survey, Monument and Iron Pins

If any legal survey monuments or property iron pins are removed or disturbed during construction, the developer will be invoiced a flat sum of \$1,200.00 per incident to cover the cost of replacement and legal registration. Security bonding will not be released until restitution is made.

14. Geotechnical Report

- a. As a requirement of this application the owner must provide a geotechnical report prepared by a Professional Engineer qualified in the field of hydro-geotechnical survey to address the following:
- b. Area ground water characteristics.
- c. Site suitability for development, unstable soils, etc.

- d. Drill and / or excavate test holes on the site and install pisometers if necessary. Log test hole data to identify soil characteristics, identify areas of fill if any. Identify unacceptable fill material, analyse soil sulphate content, identify unsuitable underlying soils such as peat, etc. and make recommendations for remediation if necessary.
- e. List extraordinary requirements that may be required to accommodate construction of roads and underground utilities as well as building foundation designs.

f. Additional geotechnical survey may be necessary for building foundations, etc.

James Kay, P. Eng.

Development Engineering Manager

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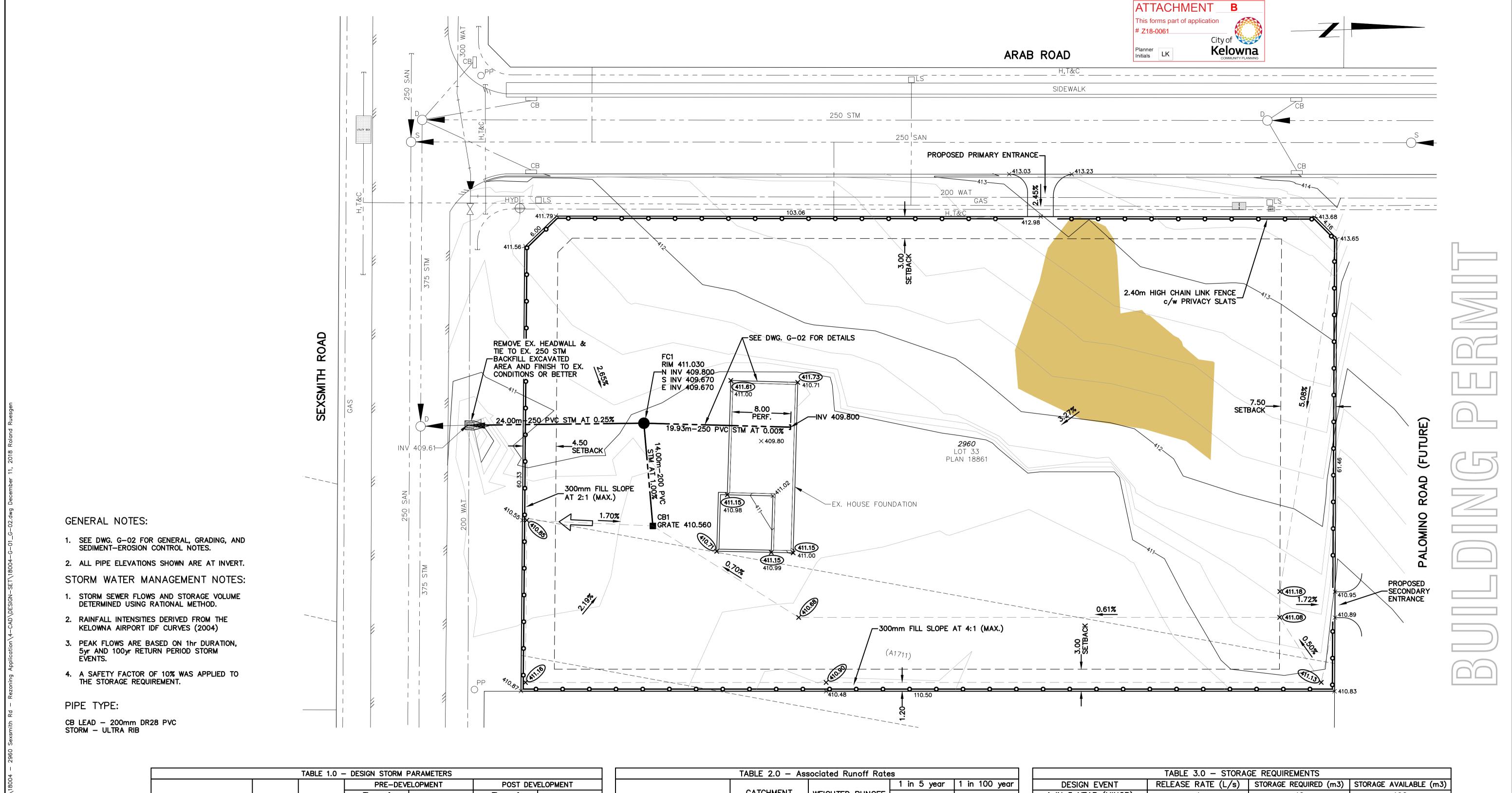


		TABLE 1.0 -	- DESIGN STORM I	PARAMETERS			
			PRE-DEVI	ELOPMENT	POST DEVELOPMENT		
DESIGN EVENT	"a" Value	"b" value	Time of Concentration (min)	Storm Intensity (mm/hr)	Time of Concentration (min)	Storm Intensity (mm/hr)	
1 IN 5 YEAR (MINOR)	12.2	-0.723	10	44.6	10	44.6	
1 IN 100 YEAR (MAJOR)	21.3	-0.767	8	99.9	8	99.9	
* Storm intensity values e	stimated usin	a the IDE cu	rves provied in th	ne City of Kelowna	Bylaw		

^{&#}x27;Storm intensity values estimated using the IDF curves provied in the City of Kelowna Bylaw

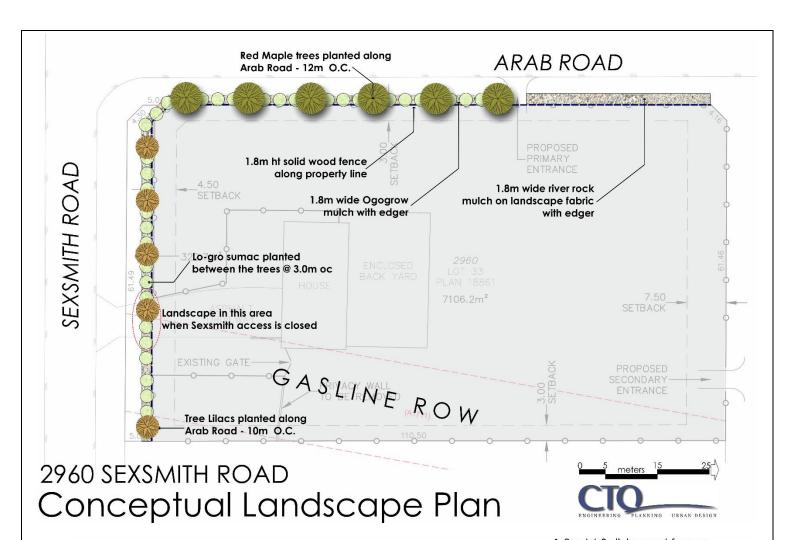
			TABLE 2.0 - ASS	sociatea Runott Rate	<u> </u>	
			1 in 5 year			
,		Develpoment Condition	CATCHMENT AREA (ha)	WEIGHTED RUNOFF COEFFICIENT	RUNOFF RATE (L/s)	RUNOFF RATE (L/s)
		PRE DEVELOPMENT	0.71	0.05	4	10
		POST DEVELOPMENT	0.71	0.60	53	97
	•	*Weighted runoff coefficent	is based on pervio	us and impervious o	areas	_

TABLE 3.0 — STORAGE REQUIREMENTS								
DESIGN EVENT RELEASE RATE (L/s) STORAGE REQUIRED (m3) STORAGE AVAILABLE								
1 IN 5 YEAR (MINOR)	4	40	190					
1 IN 100 YEAR (MAJOR)	4	74	190					

* Time of concentrated was estimated

Legend existing	Water Proposed	existing S San Manhole	_		Existing Elev.											
	Sanitary Sewer — — — — — — — — — — — — — — — — — — —	 D Storm Manho CB Catch Basin HYD Hydrant Water Valve ○ PP Power Pole 	CB HYD PP	X411.00	Overland Flow											
		□ LS Lamp Standa	ard I LS		Ared 21.011 Fill	1	18.11.21	ST FOR	BUILDING PER	ΛΙΤ	IT	1	18.12.11	RR	> 1.0m FILL AREA ADDED	ST
		—— Edge of Asph	halt 			No.	YY.MM.DD	Ву		Issued	Chkd	No.	YY.MM.DD	Ву	Revision	Chkd

				18004
Drawn	RR	1334 ST. PAUL STREET TEL 250 979–122°		
Design	ST	1334 ST. PAUL STREET KELOWNA BC VIY 2E1 TEL 250 979-1221 FAX 250 979-1232	A LINUOID A L	
Approve	ed	2960 SEXSMITH ROAD	MUNICIPAL	
Date	DECEMBER 2018	SITE GRADING AND COMPOSITE UTILITY PLAN	Drawing No.	Rev No.
Scale	DEGENIBER 2010	STORM WATER MANAGEMENT PLAN	G-01	0
	1: 250		G=01	













	Proposed Plant			
Qty	Botanical Name	Size	Spacing	
6	Acer rubrum 'Red Sunset'	Red Sunset Maple	60mm cal	
5	Syringa reticulata 'Ivory Silk'	Nory Silk Tree Lilac	50 mm cal	
33	Rhus aromatica Gro-Low	Gro-Low Fragrant Sumac	#2	3.0m OC



CTQ_15