
CITY OF KELOWNA
MEMORANDUM

ATTACHMENT A

This forms part of application

Z18-0125

Planner
Initials

AJ



Date: January 11, 2019
File No.: Z18-0125
To: Urban Planning Management (AJ)
From: Development Engineering Manager (JK)
Subject: 540 Froelich RU1 to RM3

The Development Engineering Department has the following comments and requirements associated with this rezoning application to rezone the subject properties from RU1 – Large Lot Housing to RM3 – Low Density Multiple Housing. The road and utility upgrading requirements outlined in this report will be a requirement of this development and are subject to the review and requirements from the Ministry of Transportation (MOTI).

The Development Engineering Technologist for this project is Andy Marshall.

1. Domestic Water and Fire Protection

- a) This development is within the service area of the Rutland Water District (RWD). The developer is required to make satisfactory arrangements with the RWD for these items. All charges for service connection and upgrading costs, as well as any costs to decommission existing services are to be paid directly to RWD.
- b) The developer must obtain the necessary permits and have all existing utility services disconnected prior to removing or demolishing the existing structures.

2. Sanitary Sewer

- a) 540 Froelich Rd. is currently serviced with 100mm sanitary services. The developer's consulting mechanical engineer will determine the development requirements of this proposed development and establish the service needs. Only one service will be permitted for this development. The applicant, at his cost, will arrange for the removal and disconnection of the existing service and the installation of one new larger service if necessary. Any service improvement and decommissioning works may be included in an offsite servicing design package submission including an estimate for bonding purposes.
- b) 540 Froelich Rd. is currently within Sanitary Sewer Specified Area # 21A. The developer will be responsible to cash commute, pay in full, the specified area charges for this development. The charge is currently set at \$1,045.17 per Single Family Equivalent (SFE). The original property is currently paying its Spec area fees on their taxes and will require a payout of **\$1,045.17**. The fee calculation for this development is as follows: (4 unit's x 0.7 SFE/unit) – 1 SFE (credit for original property) X \$1,045.17 = **\$1881.31**

3. Storm Drainage

The developer must engage a consulting civil engineer to provide a storm water management plan for the site, which meets the requirements of the Subdivision, Development and Servicing Bylaw No. 7900. The storm water management plan must also include provision of lot grading plan, minimum basement elevation (MBE), if applicable, and provision of a storm drainage service for the development and / or recommendations for onsite drainage containment and disposal systems. Only one service will be permitted for this development. The applicant, at his cost, will arrange the installation of one overflow service if required.

4. Road Improvements

- a) Leathead Road sidewalk to tie-in to new Froelich sidewalk. Boulevard to be completed to bylaw standard.
- b) The applicant must have a civil engineering consultant submit a design for roadway improvements along the entire frontages of the subject property. Froelich is to be designed to a modified SS-R5 This will include curb and gutter, sidewalk, street lighting, landscaped boulevard including trees, storm drainage system, pavement removal and replacement and re-location or adjustment of utility appurtenances if required to accommodate the upgrading construction. An estimate for public side works will be required, for bonding purposes, to be submitted by the applicants civil engineering consultant.

5. Road Dedication and Subdivision Requirements

- a) Provide 3.0m of road dedication along Froelich Road.
- b) Provide 1.9m of road dedication along Leathead Road.
- c) Provide a 6.0m radius rounding at the NE corner.
- d) Grant statutory rights-of-way if required for utility services.

6. Electric Power and Telecommunication Services

All proposed service connections are to be installed underground. It is the developer's responsibility to make a servicing application with the respective electric power, telephone and cable transmission companies to arrange for these services, which would be at the applicant's cost.

7. 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 (Part 5 and Schedule 3).

- 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 Development Engineering 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.

8. Servicing Agreements for Works and Services

- a) A Servicing Agreement is required for all offsite 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.

9. Other Engineering Comments

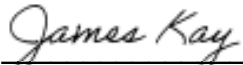
- a) Provide all necessary Statutory Rights-of-Way for any utility corridors as required.
- b) If any road dedication affects lands encumbered by a Utility right-of-way (such as Fortis, etc.) please obtain the approval of the utility prior to application for final subdivision approval. Any works required by the utility as a consequence of the road dedication must be incorporated in the construction drawings submitted to the City’s Development Manager.

10. Geotechnical Report

- a) Provide a comprehensive geotechnical report prepared by a Professional Engineer competent in the field of hydro-geotechnical engineering to address the items below: **NOTE: The City is relying on the Geotechnical Engineer’s report to prevent any damage to property and/or injury to persons from occurring as a result of problems with soil slippage or soil instability related to this proposed development.**
 - Overall site suitability for development.
 - Presence of ground water and/or springs.
 - Presence of fill areas.
 - Presence of swelling clays.
 - Presence of sulphates.
 - Potential site erosion.
 - Provide specific requirements for footings and foundation construction.
 - Provide specific construction design sections for roads and utilities over and above the City’s current construction standards

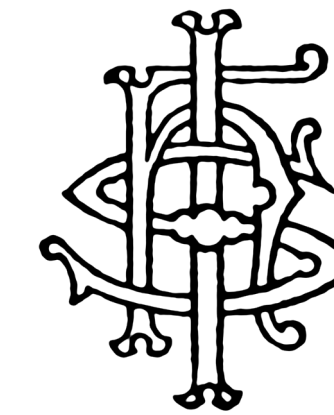
11. Charges and Fees

- a) Development Cost Charges (DCC's) are payable.
- b) Fees per the "Development Application Fees Bylaw" include:
 - i) Engineering and Inspection Fee: 3.5% of construction value (plus GST).
- c) Spec Area fees: **\$2,926.48**



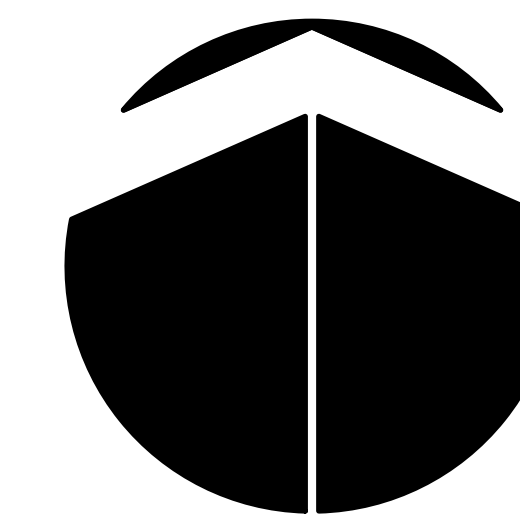
James Kay, P. Eng.
Development Engineering Manager

agm

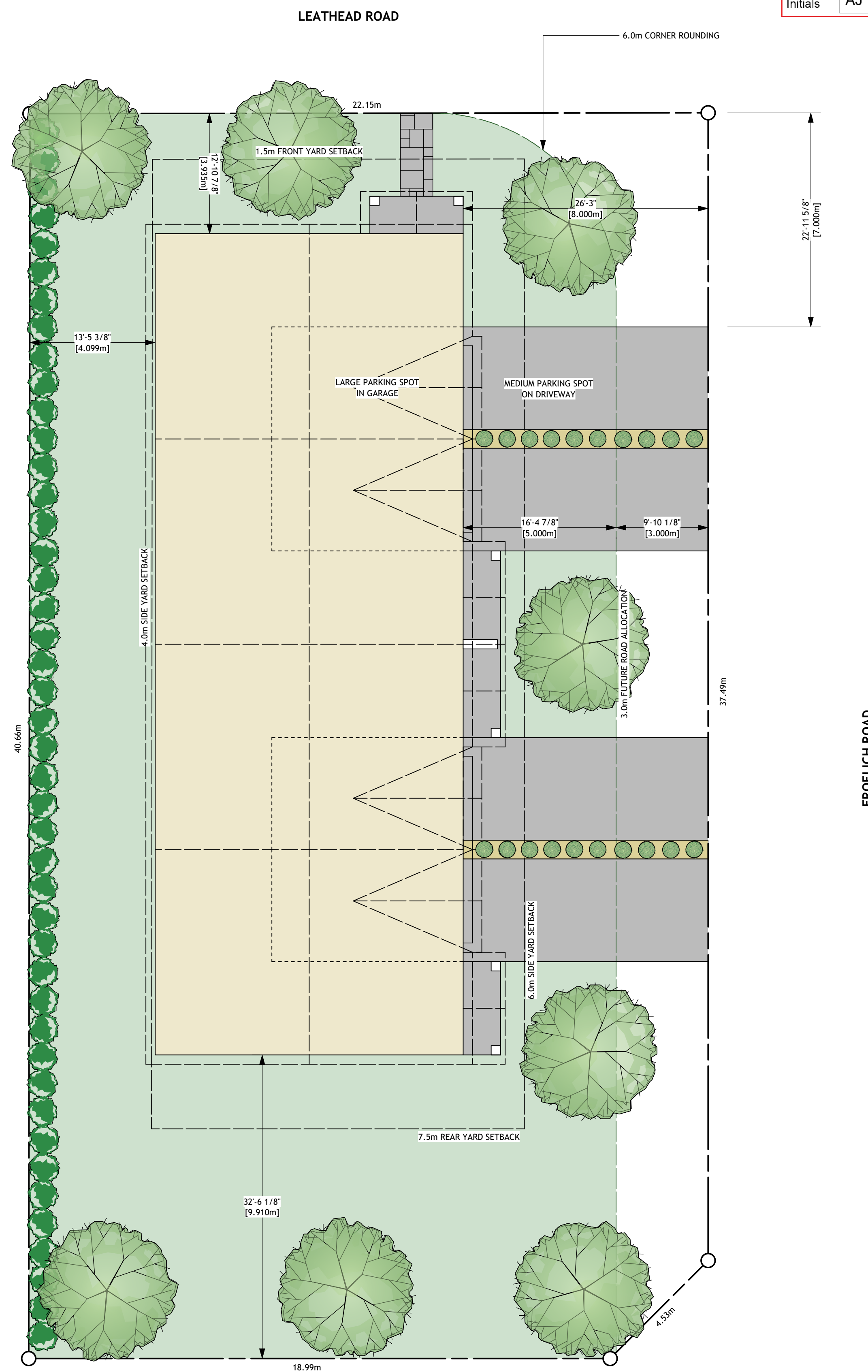


IHS DESIGN
 1392 MINE HILL DRIVE
 KELOWNA, BC V1P 1S5
 www.ihsdesign.com
 (250) 212-7938

THESE DRAWINGS ARE THE EXCLUSIVE PROPERTY OF IHS DESIGN AND MAY NOT BE REPRODUCED OR USED WITHOUT EXPRESSED WRITTEN PERMISSION FROM THE SAME.



PROJECT NORTH



REVISION	DATE	DISCRIPTION

PROJECT
MULTIFAMILY DEVELOPMENT
 450 FROELICH ROAD
 KELOWNA, BC V1X 3M8
 LOT 1 PLAN KAP17602

DRAWING TITLE
SITE PLAN

DATE
NOVEMBER 21, 2018

DRAWING NUMBER
1 of 1

