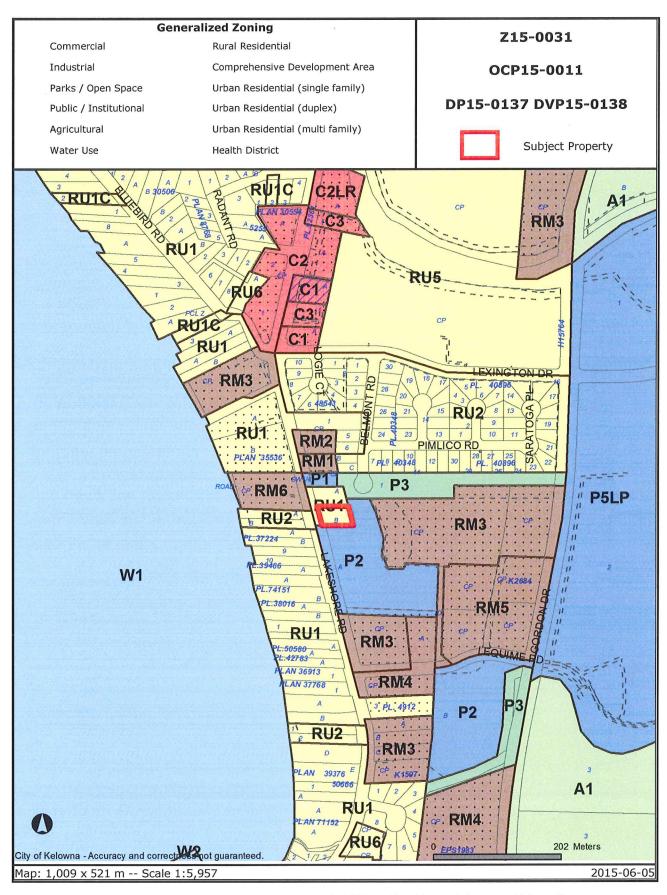


Certain layers such as lots, zoning and dp areas are updated bi-weekly. This map is for general information only.

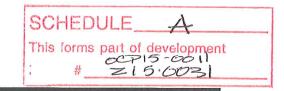
The City of Kelowna does not guarantee its accuracy. All information should be verified.

Map Output Page 1 of 1



Certain layers such as lots, zoning and dp areas are updated bi-weekly. This map is for general information only.

The City of Kelowna does not guarantee its accuracy. All information should be verified.



CITY OF KELOWNA

MEMORANDUM

Date:

June 23, 2015

File No.:

Z15-0031

To:

Urban Planning (TY)

From:

Development Engineering Manager

Subject:

4077 Lakeshore Rd

RU1 to RM3

Development Engineering Department have the following comments and requirements associated with this application. The road and utility upgrading requirements outlined in this report will be a requirement of this development.

The Development Engineering Technologist for this project is Sergio Sartori

1. Domestic Water and Fire Protection

- (a) The existing lot is serviced with 19mm diameter water service. The developer's consulting mechanical engineer will determine the domestic and fire protection requirements of this proposed development and establish hydrant requirements and service needs. The estimated cost of this construction for bonding purposes is \$10,000.00
- (b) The developer must obtain the necessary permits and have all existing utility services disconnected prior to removing or demolishing the existing structures. The City of Kelowna water meter contractor must salvage existing water meters, prior to building demolition. If water meters are not salvaged, the developer will be invoiced for the meters.

2. Sanitary Sewer

(a) The existing lot is serviced with a 100mm diameter sanitary service. The developer's consulting mechanical engineer will determine the requirements of this proposed development and establish the required size and preferred location of the new service. Only one service will be permitted for this development. The applicant, at his cost, will arrange for the removal of the existing small diameter service and the installation of a new larger service. The estimated cost of this construction for bonding purposes is \$10,000.00

3. Storm Drainage

(a) The developer must engage a consulting civil engineer to provide a storm water management plan for these sites which meets the requirements of the City Storm Water Management Policy and Design Manual. The storm water management plan must also include provision of lot grading plans, minimum basement elevations (MBE), if applicable, and provision of a storm drainage service and recommendations for onsite drainage containment and disposal systems.

(b) Only one service will be permitted for this development. The applicant, at his cost, will arrange for the installation of one new overflow service. The estimated cost of this construction for bonding purposes is \$5,000.00

4. Road Improvements

(a) Lakeshore Rd must be upgraded to an urban standard along the full frontage of this proposed development, including curb and gutter, sidewalk, landscaped boulevard complete with street trees drainage system including catch basins, manholes and pavement removal and replacement, street lighting and re-location or adjustment of utility appurtenances if required to accommodate the upgrading construction. The estimated cost of this construction for bonding purposes is \$20,000.00

Subdivision

- (a) Grant Statutory Rights Of Way if required for utility services.
- (b) Dedicate ~5.16m width along the full frontage of Lakeshore Rd.
- (c) 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. Electric Power and Telecommunication Services

- a) All proposed distribution and service connections are to be installed underground. Existing distribution and service connections, on that portion of a road immediately adjacent to the site, are to be relocated and installed underground.
- b) Streetlights must be installed on Lakeshore Rd if needed.
- c) Make servicing applications to the respective Power and Telecommunication utility companies. The utility companies are required to obtain the City's approval before commencing construction.
- d) Re-locate existing poles and utilities, where necessary. Remove aerial trespass (es).

8. Engineering

Road and utility construction design, construction supervision, and quality control supervision of all off-site and site services including on-site ground recharge drainage collection and disposal systems, must be performed by an approved consulting civil engineer. Designs must be submitted to the city engineering department for review and marked "issued for construction" by the city engineer before construction may begin.

12. Bonding and Levy Summary

(a) <u>Bonding</u>

Water service upgrades	\$ 10,000
Sanitary sewer service upgrades	\$ 10,000
Storm overflow services	\$ 5,000
Lakeshore Rd frontage improvements	\$ 20,000

Total Bonding

\$45,000.00

NOTE: The bonding amount shown above are comprised of estimated construction costs escalated by 140% to include engineering design and contingency protection and are provided for information purposes only. The owner should engage a consulting civil engineer to provide detailed designs and obtain actual tendered construction costs if he wishes to do so. Bonding for required off-site construction must be provided and may be in the form of cash or an irrevocable letter of credit, in an approved format.

The owner must also enter into a servicing agreement in a form provided by the City.

13. <u>Development Permit and Site Related Issues</u>

Access and Manoeuvrability

- (i) Furthermore, it is advised that in the future, access and egress to and from the site may be restricted to right-in and right-out due to a future median.
- (ii) Indicate on the site, the locations of loading bays as well as the garbage and recycle bins.

Steve Muenz, P. Eng.

Development Engineering Manager

SS

9. 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).
- (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.

10. 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.

11. Geotechnical Report

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:

(a) Area ground water characteristics.

(b) Site suitability for development, unstable soils, etc.

- (c) 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.
- (d) List extraordinary requirements that may be required to accommodate construction of roads and underground utilities as well as building foundation designs.
- (e) Additional geotechnical survey may be necessary for building foundations, etc.

CITY OF KELOWNA

MEMORANDUM

Date:

June 23, 2015

File No.:

OCP15-0011

To:

Urban Planning (TY)

From:

Development Engineer Manager (SM)

Subject:

4077 Lakeshore Rd

The Development Engineering comments and requirements regarding this OCP amendment application are as follows:

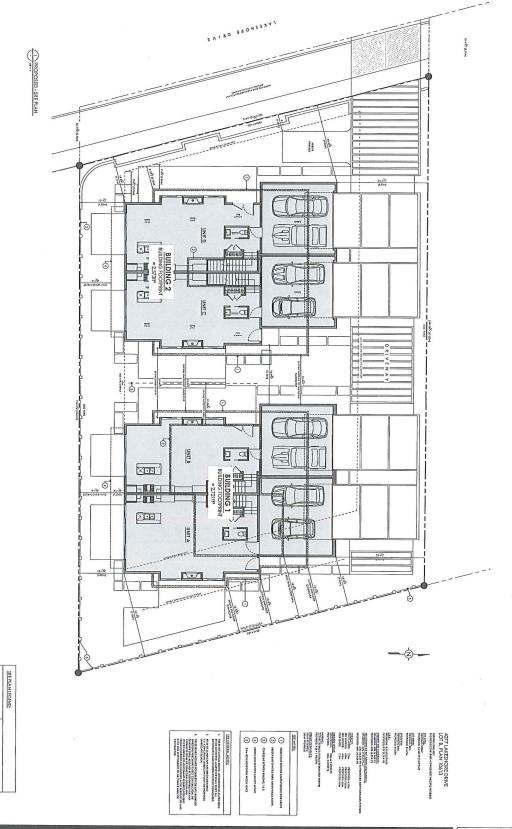
1. General.

a) All the offsite infrastructure and services upgrades are addressed in the Rezoning Engineering Report under file Z15-0031.

Steve Muenz, P. Eng. Development Engineering Manager

SS



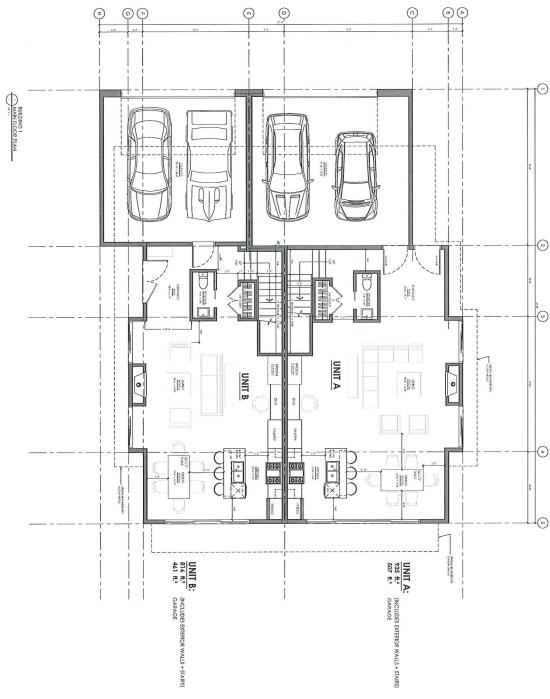


OJECT: LAKESHORE SEMI-DETACHED RESIDENCES

4077 LAKESHORE DRIVE, KELOWNA, BC LOT: B , PLAN:

ISSUED FOR: RE-ISSUED FOR DP - R15 (JULY-23-2015

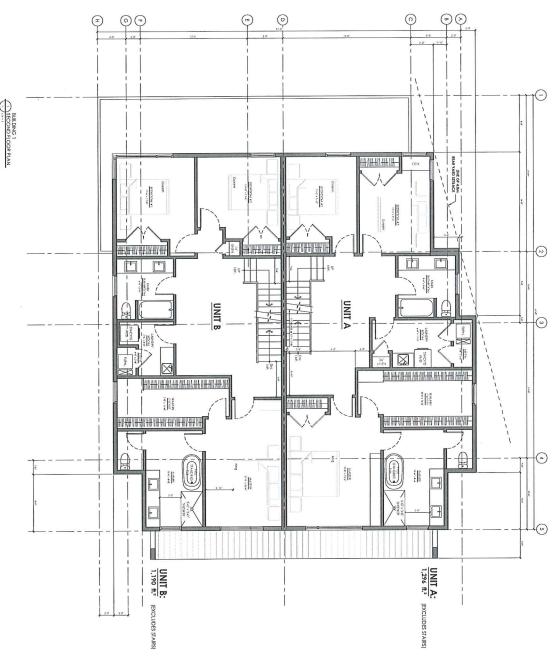


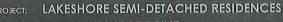


LAKESHORE SEMI-DETACHED RESIDENCES

4077 LAKESHORE DRIVE, KELOWNA, BC

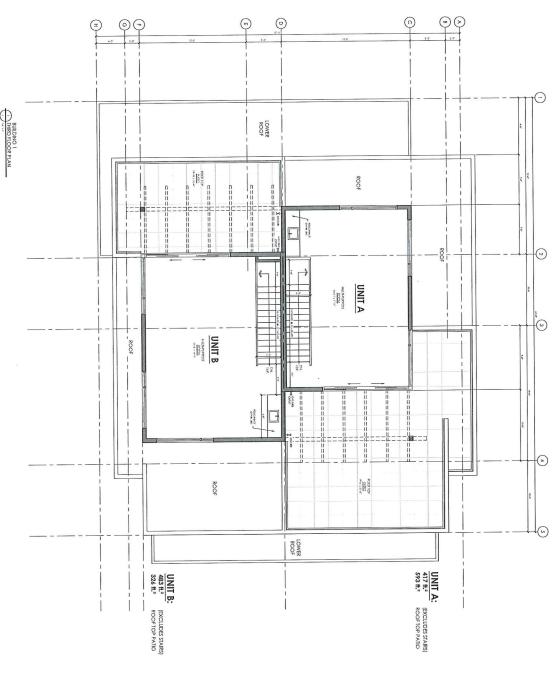






4077 LAKESHORE DRIVE, KELOWNA, BC LOT: B , PLAN: 1

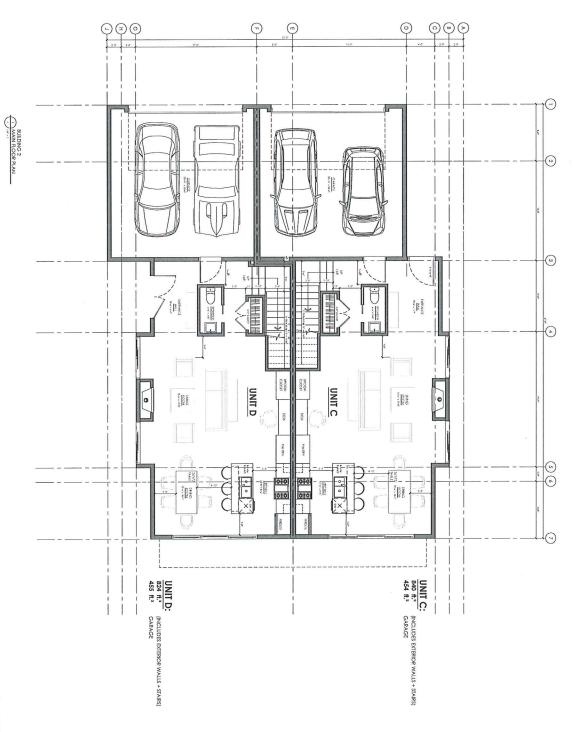




LAKESHORE SEMI-DETACHED RESIDENCES

4077 LAKESHORE DRIVE, KELOWNA, BC





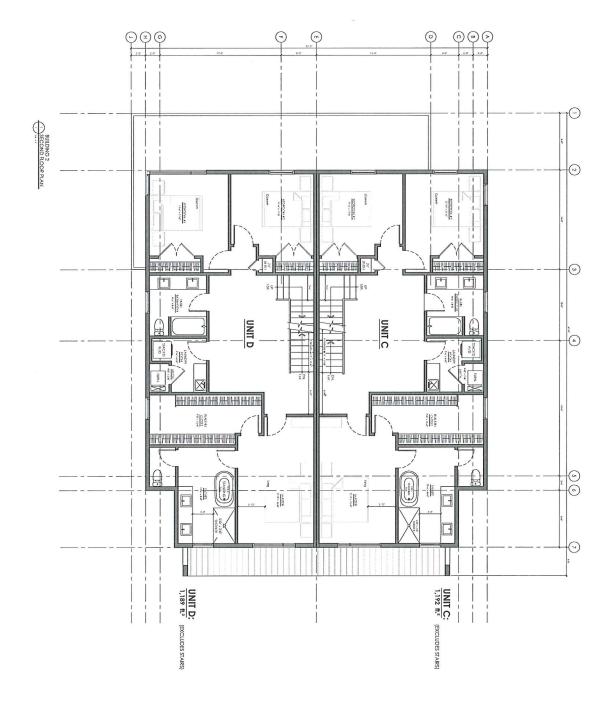
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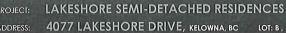
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E)

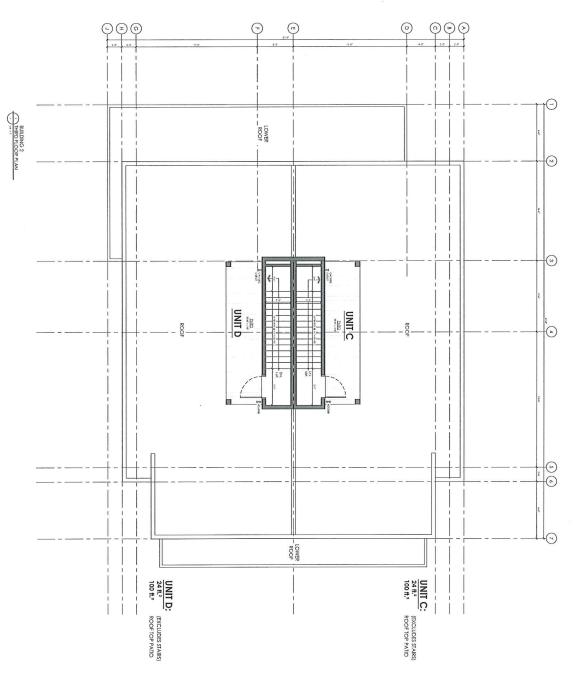
LOT: B , PLAN: 10613









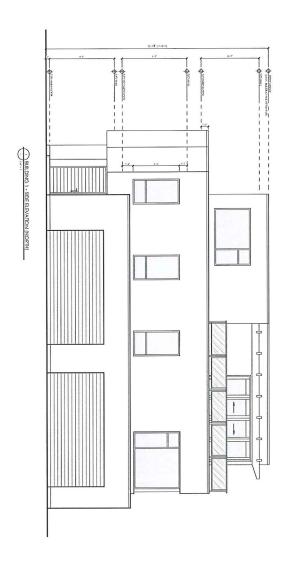


DIECT: LAKESHORE SEMI-DETACHED RESIDENCES

4077 LAKESHORE DRIVE, KELOWNA, BC LOT: B , PLAN: 10613



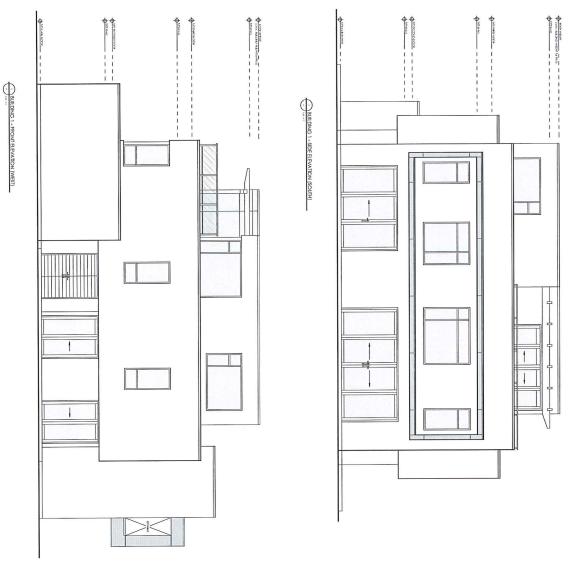
BUILDING 1 - REAR ELEVATION (EAST)

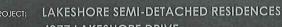


OJECT: LAKESHORE SEMI-DETACHED RESIDENCES

ADDRESS: 4077 LAKESHORE DRIVE, KELOWNA, BC LOT: B , PLAN: 10613

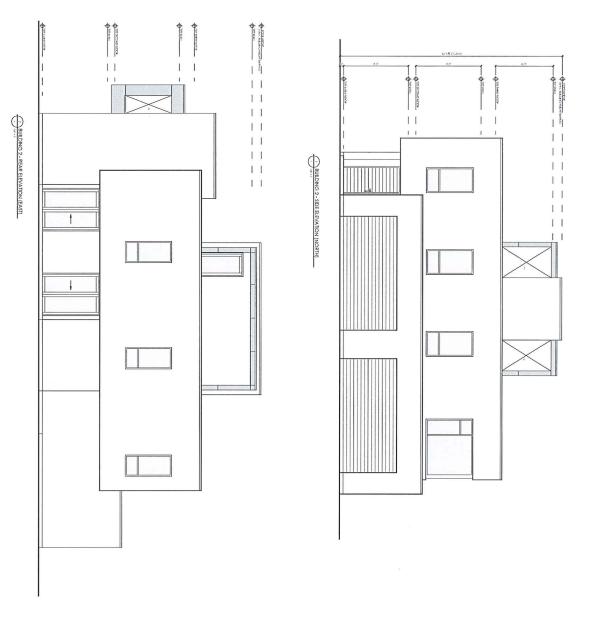


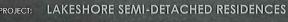




4077 LAKESHORE DRIVE, KELOWNA, BC LOT: B , PLAN: 10613

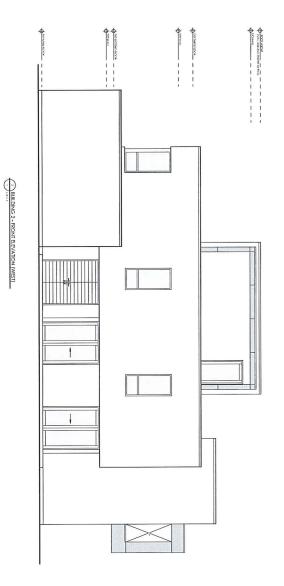


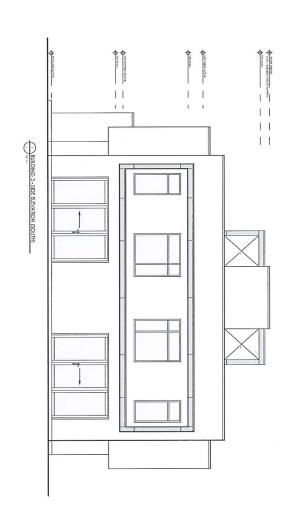




4077 LAKESHORE DRIVE, KELOWNA, BC LOT: B , PLAN: 1061



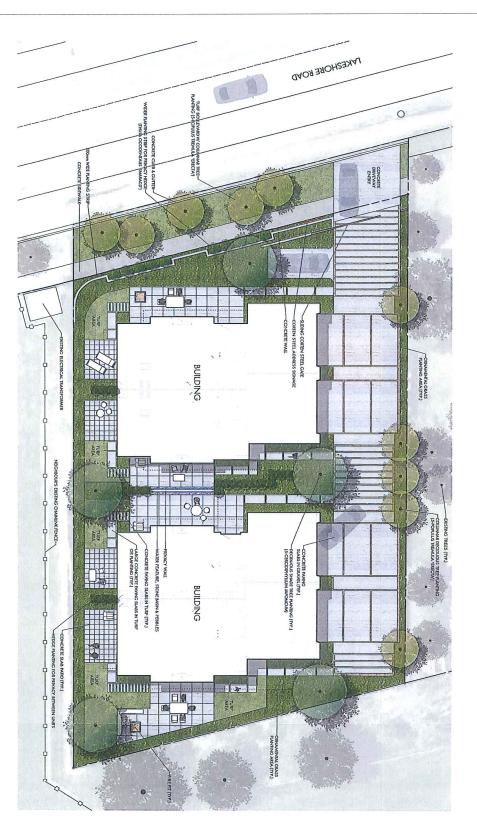




LAKESHORE SEMI-DETACHED RESIDENCES

4077 LAKESHORE DRIVE, KELOWNA, BC





206 - 1889 Spall Road Kelawna, BC V1Y 4R2 T (250) 868-9270 www.aulanddasign.ca

OUTLAND DESIGN LANDSCAPE ARCHITECTURE

dillin



SHRUBS, PERENNIALS & GRASSES
DESCHAMESIA CESPICOS À COLDIAU¹
MISCANTHUS SINGHESIS GRACILLIMAIS
MOINNA ABUNDINACEA
PANICIAN "ROCHRAIBUSCH"
PENISERIAM ACOPECINOMES "RED HEAD"
YUCKA FRAMENICOA GOLD SWODD

VICKA FRAMENICO

ADI CONT. /075M O.C. SPACING
ADI CONT. /12M O.C. SPACING
ADI CONT. /12M O.C. SPACING
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4. TREE AND SHRUB BEDS TO RECEIVE A MINIMUM 300mm DEPTH TOPSOIL PLACEMENT.

s, Tures Areas, Redn. sod shall, er dn.) 1.024.05 comma from certhred Eedd of wholved Cultum-Area Recurrence for sa, and and, ca, wo shall be Tolerana To drought Constitues, anamylana of tomm detrin or december, and was seculed de reason their acres, turit areas shall weet distrince grades and hadd surfaces flush.

3, TREE AND SHRUB BEDS TO BE DRESSED IN A MINIMUM 50mm WOOD MUICH, DO NOT PLACE WEED MAT UNDERNEATH TREE AND SHRUB BEDS. 2. ALL SOFT JANDSCAPE AREAS SHALL BE WATERED BY A FULLY AUTOMATIC TIMED UNDERGROUND IRRIGATION SYSTEM.

6cm CAL 6cm CAL 905 CONT. /12M O.C. SPACING SIZE / SPACING & REMARKS

PLANT LIST



NOTES

1, Plant material and construction methods shall meet or exceed $B.\mathsf{CLLNA}.$ Standards.

CONCEPTUAL LANDSCAPE PLAN

4077 LAKESHORE ROAD

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