

Report to Development Permit Panel

To: Development Permit Panel

Date: April 20, 2023

From: Wayne Craig

Re:

File: DP 22-019430

Director, Development

Director, Development

Application by Talvinder Jagde for a Development Permit at

10151 Ainsworth Crescent

Staff Recommendation

That a Development Permit be issued which would:

- 1. Permit the construction of a coach house at 10151 Ainsworth Crescent on a site zoned "Single Detached with Granny Flat or Coach House Edgemere (REI)";
- 2. Vary the provisions of Richmond Zoning Bylaw 8500 to:
 - a) increase the maximum setback that a coach house is permitted to be located from the south property line from 2.0 m to 5.95 m: and,
 - b) decrease the minimum setback that a coach house is permitted to be located from the north property line from 2.0 m to 0.90 m.

Wayne Craig

Director, Development

(604-247-4625)

WC:le

Att. 5

Staff Report

Origin

Talvinder Jagde, authorized agent for the property owners (Jim Kirk, Prabherjot Saini, and Robyn Kirk), has applied to the City of Richmond for permission to develop a 58.3 m² (627.5 ft²) coach house at 10151 Ainsworth Crescent on a site zoned "Single Detached with Granny Flat or Coach House – Edgemere (RE1)". A copy of a location map is attached (Attachment 1). The site currently contains one single detached house, which is proposed to be demolished (Attachment 2).

Development Information

Please refer to the attached Development Application Data Sheet (Attachment 3) for a comparison of the proposed development data with the relevant Bylaw requirements.

Background

Development surrounding the subject site is as follows:

To the north: A single detached house on a lot zoned "Single Detached with Granny Flat or

Coach House - Edgemere (REI)".

To the south: A single detached house on a lot zoned "Single Detached with Granny Flat or

Coach House - Edgemere (REI)".

To the east: Across Ainsworth Crescent, a single detached house on a lot zoned "Single

Detached with Granny Flat or Coach House - Edgemere (RE1)".

To the west: Across the rear lane, a single detached house on a lot zoned "Single Detached

with Granny Flat or Coach House - Edgemere (RE1)".

Staff Comments

The proposed scheme attached to this report has satisfactorily addressed the significant urban design issues and other staff comments identified as part of the review of the subject Development Permit application. In addition, it complies with the intent of the design guidelines for coach houses in the Edgemere neighbourhood contained in the City's Official Community Plan (OCP), and complies with the "Single Detached with Granny Flat or Coach House Edgemere (RE1)" zone except the below noted variances.

Zoning Compliance/Variances

The applicant has requested to vary the provisions of Richmond Zoning Bylaw 8500 to:

- 1. Increase the maximum setback that a coach house is permitted to be located from the south property line from 2.0 m to 5.95 m.
- 2. Decrease the minimum setback that a coach house is permitted to be located from the north property line from 2.0 m to 0.90 m.

The applicant has requested the above variances in order to locate the coach house safely outside of the tree protection zone of a significant tree (Tree ID# os3 - Douglas Fir, DBH 110 cm) located on the neighbouring property to the south (see Tree Retention and Replacement Plan, Attachment 4). In order to ensure that the entirety of the proposed coach house and garage are located outside of the Tree Protection Zone, while also maintaining consistency with Coach House design guidelines, the applicant proposes to shift the coach house and garage to the north side of the property.

Staff supports the proposed variances as they provide for the retention of a significant tree (a 15 m tall Douglas fir with a diameter of 110 cm) which is in good condition. The City Arborist has reviewed the submitted Arborist Report and supports the efforts taken to shift the proposed coach house and garage as far to the north as possible, such that the development is located entirely outside of the Tree Protection Zone.

The proposed variances do not interfere with the overall design of the coach house which is generally consistent with the Development Permit guidelines. The applicant has also provided a shadow analysis (Attachment 5) that demonstrate that the variances to the setback requirements in the zone will not result in undue shadowing of the adjacent property to the north.

Analysis

Conditions of Adjacency

- The proposed coach house design relates to the proposed single detached housing form, character and scale of the surrounding neighbourhood.
- The proposed location of the coach house, which is set back between 1.5 m and 3.0 m from the rear lane, provides an adequate buffer to the adjacent lot to the west.
- The majority of the floor space in the coach house building is proposed on the ground floor (60 per cent, i.e., entry, powder room, living, kitchen/dining), and the portion of the floor space located in the upper half-storey of the coach house is located in the middle of the overall building.
- There are no windows proposed on the north or south side elevations to address concerns of
 overlook into the neighbouring properties. There are windows proposed on the west and east
 elevations of the coach house to provide passive surveillance of the lane and maximize light
 penetration.

Urban Design and Site Planning

- Consistent with the OCP guidelines for coach houses in the Edgemere neighbourhood, the proposed primary pedestrian entry to the coach house is from the rear lane, and secondary pedestrian access to the coach house is proposed via a pathway from Ainsworth Crescent along the south side of the property.
- The west elevation of the coach house that faces the lane has been designed as the primary facade, with a main window off the living area at grade, wood posts with stone bases on either side of the covered front porch, as well as exterior wall and landscape lighting to enhance visibility and appearance of the lane as a public space.

- Consistent with zoning, private outdoor space for the exclusive benefit of the coach house is proposed in the form of a screened and landscaped yard off the south side of the coach house. Access to the private outdoor space is from the front door of the coach house.
- A single shared garbage and recycling enclosure is proposed for the site for use by the residents of the property. The enclosure, which is adequately sized to contain the required number of containers for the single detached house and coach house, is set back 1.5 m from the rear property line and is screened by wood fencing, gates, and a variety of soft landscaping.
- The proposed site plan provides on-site parking in compliance with the Zoning Bylaw, including: two parking spaces for the principal dwelling in the garage off the lane and one unenclosed and permeable parking space for the coach house with access from the lane.
- Prior to development permit issuance, the applicant shall provide a letter of undertaking or contract with a certified arborist for the supervision of all works to be completed within the Tree Protection zone of trees #os3 and os4, including landscaping and footing preparation and installation.

Architectural Form and Character

- The proposed exterior building materials and colours of the coach house are consistent with the building styles in the neighbourhood, and include horizontal white Hardie-plank siding with black trim and grey stone accents.
- The primary facade of the coach house facing the lane is proposed to be visually broken into smaller components through the inclusion of a covered front porch, and an upper covered deck.

Landscape Design and Open Space Design

- Tree retention and removal was assessed as part of this application. One significant 110 cm Douglas fir tree (Tree ID # os3) and a 23 cm magnolia tree (Tree ID# os4) which are in proximity to the proposed coach house and located on the neighbouring property to the south are required to be retained and protected. Tree protection fencing must be installed and inspected prior to issuance of a Demolition Permit for the existing single detached house or the Building Permit for the coach house. The proposed Tree Retention and Removal Plan is included in Attachment 4.
- There are no on-site trees in the area of the proposed coach house and garage. Future assessment of on-site tree retention and removal associated with any new single-family dwelling to be constructed on the property will be assessed and reviewed at the time of the building permit application for the single-family dwelling.
- The applicant proposes to plant three new trees on-site adjacent to the proposed coach house and garage.
- The area surrounding the coach house main entrance, adjacent to the rear lane, is proposed to be treated with a combination of shrubs and flowering plants to enhance the appearance of the lane.
- The private open space for the coach house is proposed at grade, in the rear yard to the south of the coach house, and is defined through the planting of shrubs.

- The proposed open space is adequately sized and shaped to comply with the "Single Detached with Granny Flat or Coach House Edgemere (RE1)" zone.
- Prior to DP issuance, the applicant is required to submit a Landscaping Security for the proposed works, based on 100 per cent of the cost estimate provided by the Landscape Architect (including a 10 per cent contingency, soft and hard landscaping, fencing and installation).

Crime Prevention Through Environmental Design

- Consistent with the design guidelines for coach houses in the OCP, the proposed coach house design enables natural surveillance by locating windows and living areas overlooking the lane.
- Similarly, the applicant proposes exterior lighting on the eaves facing the lane, as well as porch lighting at the coach house's main entry to maintain visibility and safety. The lighting will be designed to limit spillover onto adjacent lots.

Energy Efficiency

The applicant has indicated that they intend to achieve Step 3 of the BC Energy Step Code, and will provide a Low Carbon Energy System, consistent with the City's requirements.

Conclusions

The applicant is seeking permission to build a coach house in the rear yard of the subject property at 10151 Ainsworth Crescent in the Edgemere neighbourhood.

The proposal aims to respect the existing character of the immediate surrounding neighbourhood which consists of single detached housing, by conforming to the design guidelines for coach houses in the OCP. The proposed construction of the coach house complies with the requirements of the "Single Detached with Granny Flat or Coach House - Edgemere (REI)" zone, with the exception of the two variances requested to allow for the retention of a significant tree.

On this basis, staff recommends support for this Development Permit application.

Laurel Eyton Planning Technician

(604-276-4262)

LE:js

Att.

1: Location Map 2: Survey Plan

3: Development Application Data Sheet

4: Tree Retention and Replacement Plan

5: Shadow Study

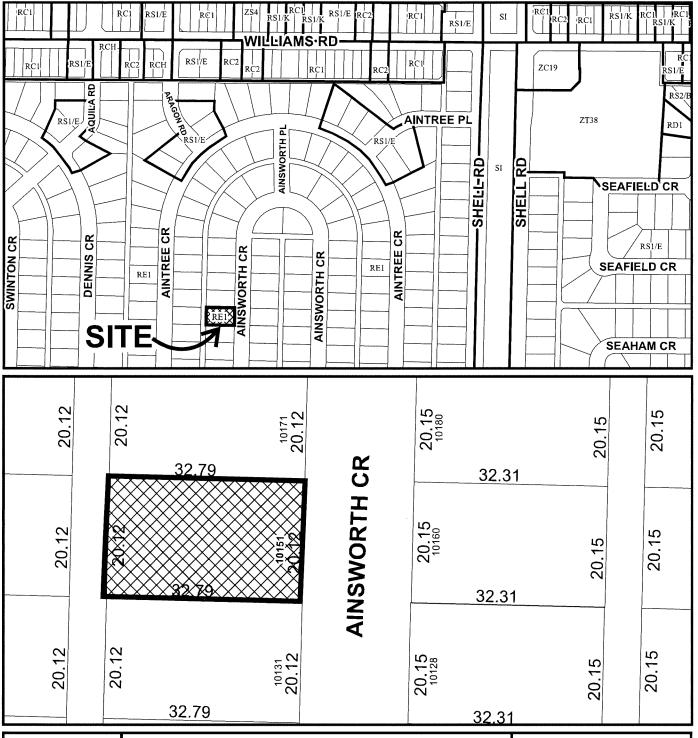
The following are to be met prior to forwarding this application to Council for approval:

- Registration of a flood indemnity covenant on Title.
- Receipt of a Letter-of-Credit for landscaping in the amount of 100 per cent of the costs of soft and hard landscaping, installation, and a 10 per cent contingency.
- Receipt of a Letter of Undertaking from Arborist indicating that they will be on site to supervise all works within the Tree Protection Zone, and within 1.0 m of the Tree Protection Zone. The contract/letter of undertaking must include the scope of work to be supervised, any protection measures required to ensure tree protection, as well as a provision for the Arborist to submit a post-construction impact assessment report to the City for review.

Prior to future Building Permit issuance, the developer is required to complete the following:

- Demonstrate compliance with the Development Permit plans.
- Demonstrate compliance with the applicable level of the BC Energy Step Code.
- Install tree protection fencing to City standard around the driplines of any protected trees in accordance with the City's Tree Protection Information Bulletin (TREE-03), which must remain in place until construction and landscaping is completed.
- The applicant is required to obtain a Building Permit for any construction hoarding associated with the proposed development. If construction hoarding is required to temporarily occupy a street, or any part thereof, or occupy the air space above a street or any part thereof, additional City approvals and associated fees may be required as part of the Building Permit. For further information on the Building Permit, please contact Building Approvals Department at 604-276-4285.
- Submission of a construction traffic and parking management plan to the satisfaction of the City's Transportation Department (http://www.richmond.ca/services/ttp/special.htm).







DP 22-019430

Original Date: 08/23/22

Revision Date:

Note: Dimensions are in METRES



Development Permit

No. DP 22-019430

To the Holder:

Talvinder Jagde

Property Address:

10151 Ainsworth Crescent

Address:

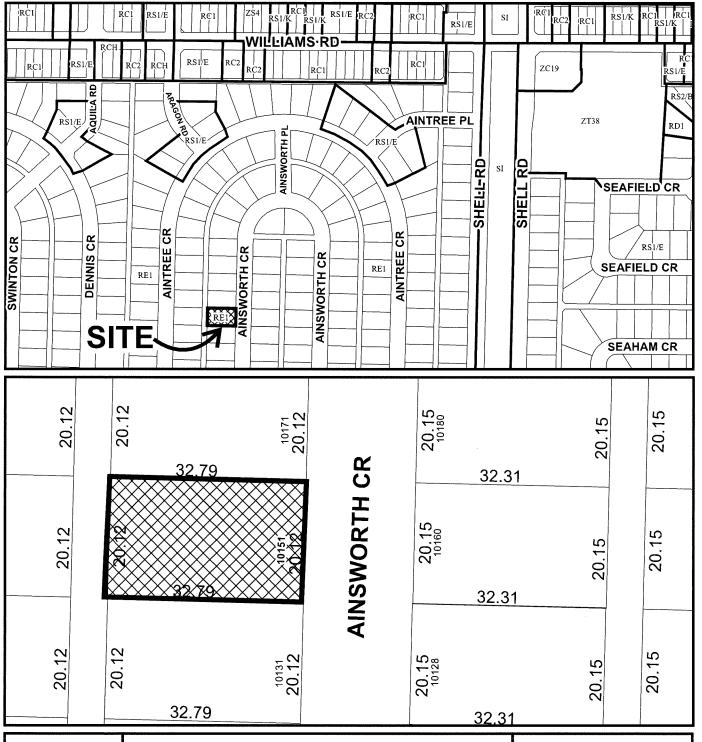
6391 No. 5 Road, Richmond BC

- 1. This Development Permit is issued subject to compliance with all of the Bylaws of the City applicable thereto, except as specifically varied or supplemented by this Permit.
- 2. This Development Permit applies to and only to those lands shown cross-hatched on the attached Schedule "A" and any and all buildings, structures and other development thereon.
- 3. The "Richmond Zoning Bylaw 8500" is hereby varied to:
 - a) increase the maximum setback that a coach house is permitted to be located from the south property line from 2.0 m to 5.95 m; and,
 - b) decrease the minimum setback that a coach house is permitted to be located from the north property line from 2.0 m to 0.90 m.
- 4. Subject to Section 692 of the Local Government Act, R.S.B.C.: buildings and structures; off-street parking and loading facilities; roads and parking areas; and landscaping and screening shall be constructed generally in accordance with Plans #1 to #8 attached hereto.
- 5. Sanitary sewers, water, drainage, highways, street lighting, underground wiring, and sidewalks, shall be provided as required.
- 6. As a condition of the issuance of this Permit, the City is holding the security based on 100% of the cost estimate for the proposed works around the coach house (including 10% contingency, soft and hard landscaping, fencing and installation) to ensure that development is carried out in accordance with the terms and conditions of this Permit. Should any interest be earned upon the security, it shall accrue to the Holder if the security is returned. The condition of the posting of the security is that should the Holder fail to carry out the development hereby authorized, according to the terms and conditions of this Permit within the time provided, the City may use the security to carry out the work by its servants, agents or contractors, and any surplus shall be paid over to the Holder. Should the Holder carry out the development permitted by this permit within the time set out herein, the security shall be returned to the Holder. The City may retain the security for up to one year after inspection of the completed landscaping in order to ensure that plant material has survived.
- 7. If the Holder does not commence the construction permitted by this Permit within 24 months of the date of this Permit, this Permit shall lapse and the security shall be returned in full.

Development Permit No. DP 22-019430

To the H	older:	Talvinder Jagde	
Property	Address:	10151 Ainsworth Cres	cent
Address:		6391 No. 5 Road, Ric	hmond BC
cond	itions and provisions	of this Permit and any	nerally in accordance with the terms and plans and specifications attached to this
	it which shall form a	•	
TIIIS	Permit is not a Build	ing Permit.	
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DELIVE	RED THIS D	AY OF ,	•
MAYOR			





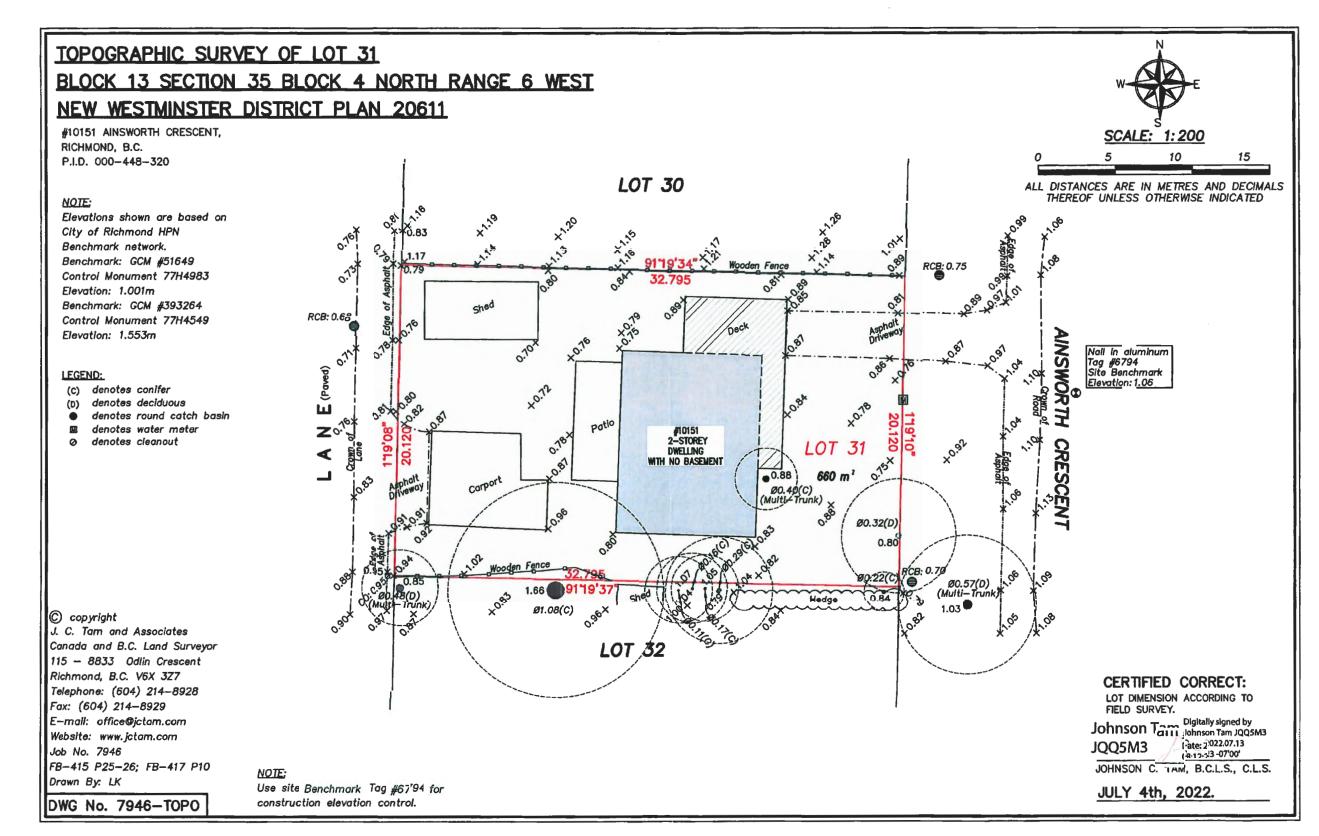


DP 22-019430 SCHEDULE "A"

Original Date: 08/23/22

Revision Date:

Note: Dimensions are in METRES





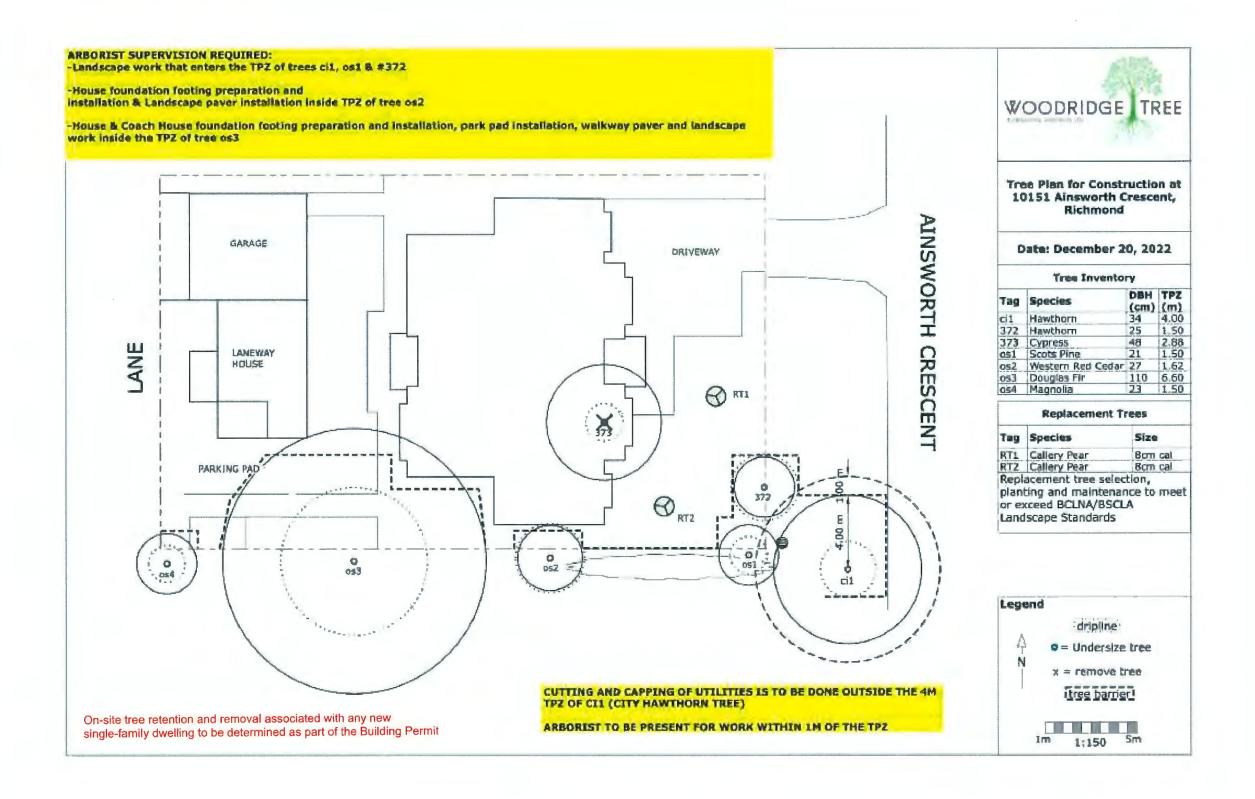
Development Application Data Sheet Development Applications Department

DP 22-019430 Attac			
Address:	10151 Ainsworth Crescent		
			Jim Kirk, Prabherjot Saini, and
Applicant:	Talvinder Jagde	Owners:	Robyn Kirk
Planning A	rea(s): Shellmont		

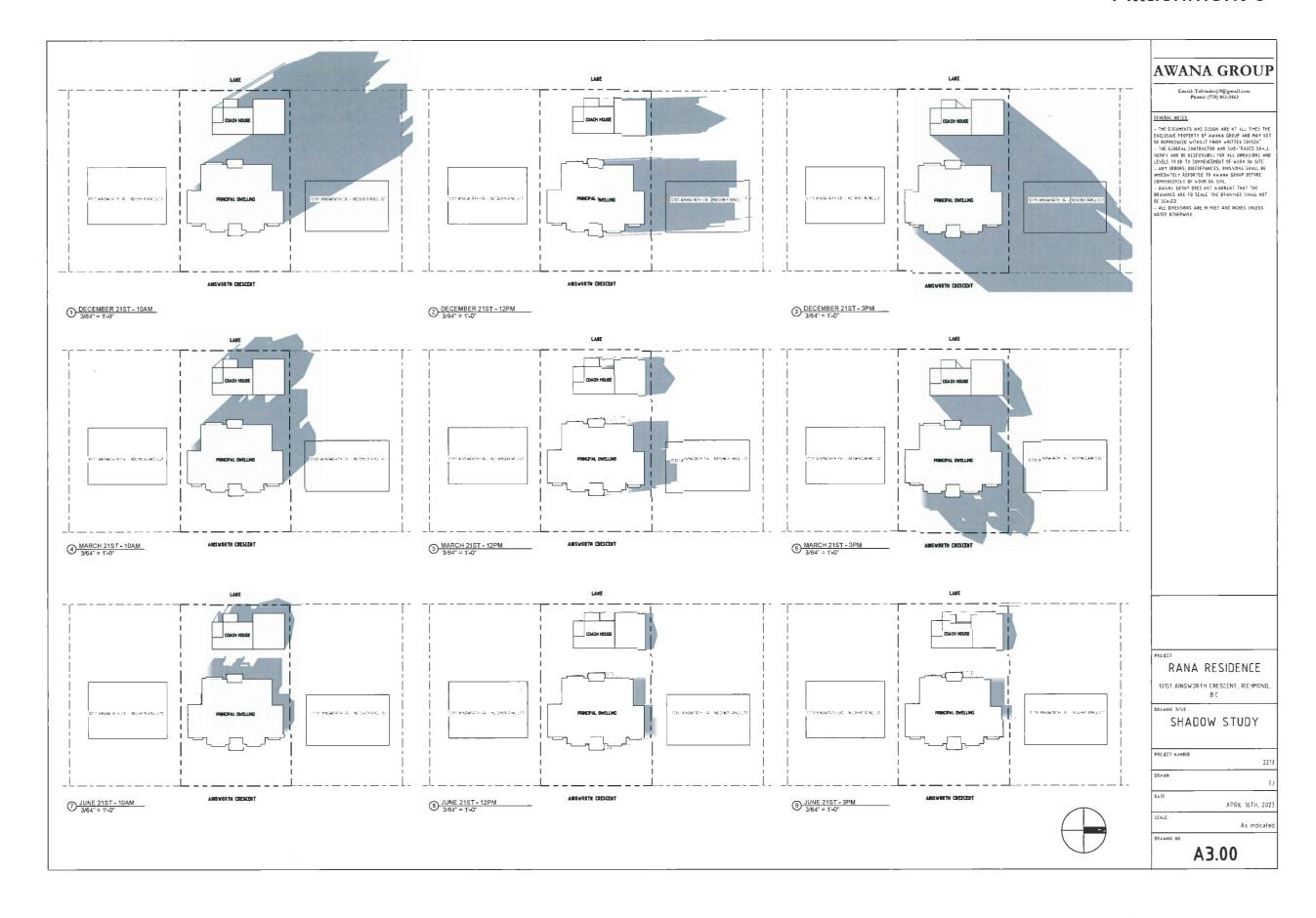
	Existing	Proposed
Site Area:	659 m²	659 m²
Land Uses:	Single detached residential	Single detached residential with detached coach house
OCP Designation:	NRES	NRES
Zoning:	RE1	RE1
Number of Units:	1	1 Single Detached House 1 Coach House

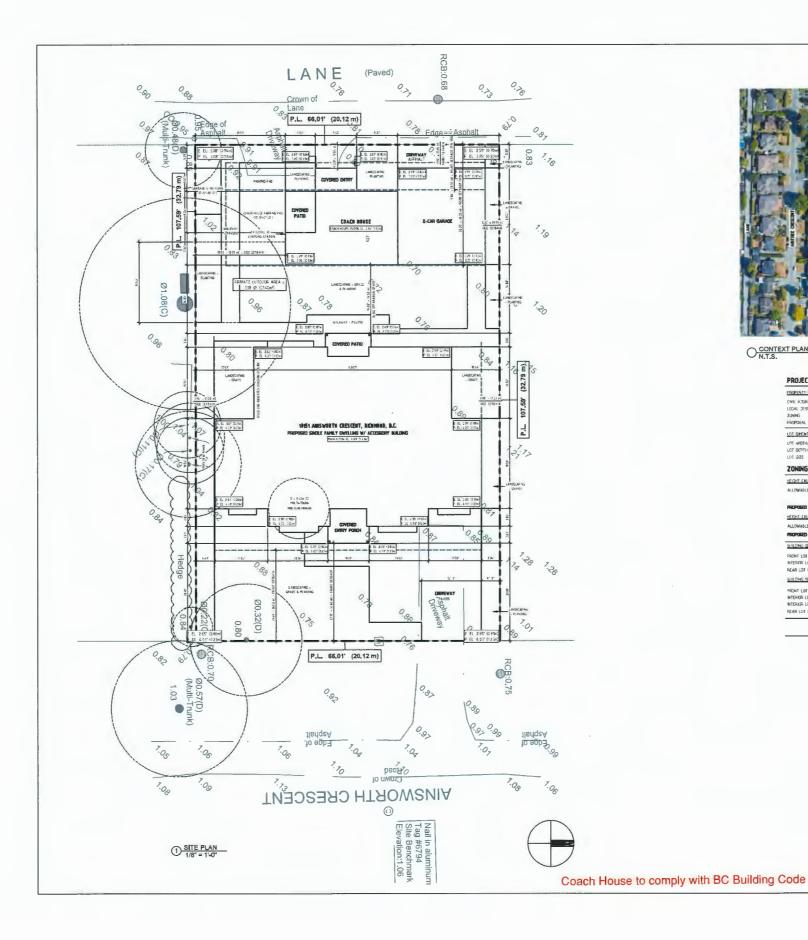
	Bylaw Requirement	Proposed	Variance
Floor Area Ratio:	Max. $0.6 \times 464.5 \text{ m}^2 + 0.3 \times \text{remainder} = 337 \text{ m}^2 (3,627 \text{ ft}^2)$	$0.6 \times 464.5 \text{ m}^2 + 0.3 \times \text{remainder}$ = 337 m ² (3,267 ft ²)	none permitted
Coach House Size	Min. 33 m ² and Max. 60 m ²	58.3 m ² (627.5 ft ²)	no
Lot Coverage:	Building: Max. 45% Non-porous surfaces: Max. 70% Live Landscaping: Min. 20%	Building: Max. 45% Non-porous surfaces: Max. 70% Live Landscaping: Min. 20%	no
Setback – Side Yard, north (coach house):	Min. 2.0 m	0.9 m	Variance Requested
Setback – Side Yard, south (coach house):	Max. 2.0 m	5.95 m	Variance Requested
Setback – Rear Yard (coach house):	Min. 1.2 m for max. 65% of rear façade; 3.0 m for min. 35% of rear façade; min. 1.5 m to entry	Min. 1.2 m for max. 65% of rear façade; 3.0 m for min. 35% of rear façade; min. 1.5 m to entry	no
Separation between single detached house and coach house:	Min. 4.5 m	5.4 m	no
Height (m) (coach house):	Max 1 ½ storeys or 6.0 m	Max 1 ½ storeys or 6.0 m	no
Lot Size:	Min. 550 m ²	660 m ²	none permitted
Off-street Parking Spaces – (coach house):	Min. 1	1	no
Amenity Space – Outdoor (coach house):	Min. 30 m ²	31.4 m ²	no

Attachment 4



Attachment 5







O CONTEXT PLAN

GENERAL NOTES:

GENERAL NOTES:

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PROJECT SUMMARY

PROPERTY DESCRIPTION			
CIVIL AZORESS.	ICIST AINSW	ORTH CRESCENT, RICHMOND, 3 C	
LEGAL DESCRIPTION	LOT 31, SEC	TION 25, BLK 4M, RG 6W, PLAN NWF23611, PIO 300-448-320	
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LOT DCPTII	127.59	:32 79 m2	
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ZONING ANALYSIS HEIGHT CALCULATION DENGRAL BUILDING.

INTERIOR LOT LINE SETBACK DIGITING INTERIOR LOT LINE SETBACK (SCUTH) REAR LOT LINE SETBACK.

2 1/2 STOREYS BUT SHALL NOT EXCEED RESCENTIAL VERTICAL LOT DEPTH & WOTH ENVELOPE

PROPOSED BUILDING HEIGHT: 2854" BLTOM TREFER TO SHEET AZIZO & AZIZO HEIGHT CALCULATION SATCESSORY BUILDING PROPORED BLILDING HEIGHT: BULDING SETBACKS (PRINCIPAL BURLDING) FRONT LOT LINE SETBACK REAR LOT LINE SETBACK 19 59" 16 Cm 40 90" +12,4 3ml SHILDING SETBACKS PACCESSORA BITTENED FRONT LOT LINE SETBACK: 509' (505m) 100' (03m) 1951' (585m) 25'25' (80m)

ALLOWABLE GF A (500) SF (454 Sm²) x 0.60) + (204 SF (455 5m²) x 0.30) = 3631.20 SF (331 35m²) GROSS FLOOR AREA CALCULATION FRANCEAL BUILDING

MAIN FLOOR 188750 SF (175.75m²)

124342 SF (115.52m²) GROSS PLOOP, AS TOURS SE (DUSm2) 285.61 SF 136.54x21 TUTAL = 6275: SF (58.00m²)

GRAND TOTAL . 3240 SF (337.17w²) ALLOWABLE GROSS FLOOR AREA VERED FORCHEST 363126 SF -33735m⁻⁾ x 0.10 x 363 f2 SF (33.73m⁻⁾

TOTAL =

ON COVERAGE CALCULATION: 45% 40.896 37% ALLOWABLE LOT CEVERAGE FOR BUILDINGS, STRUCTURES AND NON-DOROUS SURFACES PROPOSED LOVERAGE

196.80 SF 1971.33 SP 65.7% 4670 57 M33.85m²) ANTSCAFING CAPTULATION TOTAL LIVE LANDSCAPING REGURED PROPOSED TOTAL LANDSCAPING TOTAL PRONT YARD AREA TOTAL FRONT YARD LANDSCAPING RECLIRED PROPOSED FRONT TARD LANSCAPING

59 SF (N.The')

DRAWING LIST		
No.	SHEET NAME	
AC 50	COVER SHEET	
Als:	PLITTIN PLANS	
A121	AREA FLANS	
A2 25	ELEVATIONS & SECTIONS	
43.55	SHADOW STUDY	

AWANA GROUP

Email: Talvinderj19@gmail.com Phone: (778) 862-5563

- THE DOCUMENTS AND DESIGN ARE AT ALL TIMES THE EXCLUSIVE PADRETTY OF AWANA GROUP AND MAY NOT BE REPRODUCED WITHOUT PROR WRITTEN CONSENT.

- THE GENERAL CONTRACTOR AND SUG-INABLES SMALL VEREY AND BE RESPONSIBLE FOR ALL DIMESSINES AND LEVELE PROBE TO COMMENCEMENT OF WORK ON STICL.

- ANY ERRORS, DISCREPANCES, ONISSIONES SMALL BE INTELLETLY REPORTED TO AWANA GROUP BEFORE COMPRECIENT OF WORK ON STIC.

- AWANA BROUP DOES NOT WARRANT THAT THE DRAWNISS ARE TO SCALE. THE DRAWNINGS SHALL BUT BE SCALED.

- ALL DIPHENSIONS ARE IN FEET AND INCIDES UNIVESS NOTED OTHERWISE.

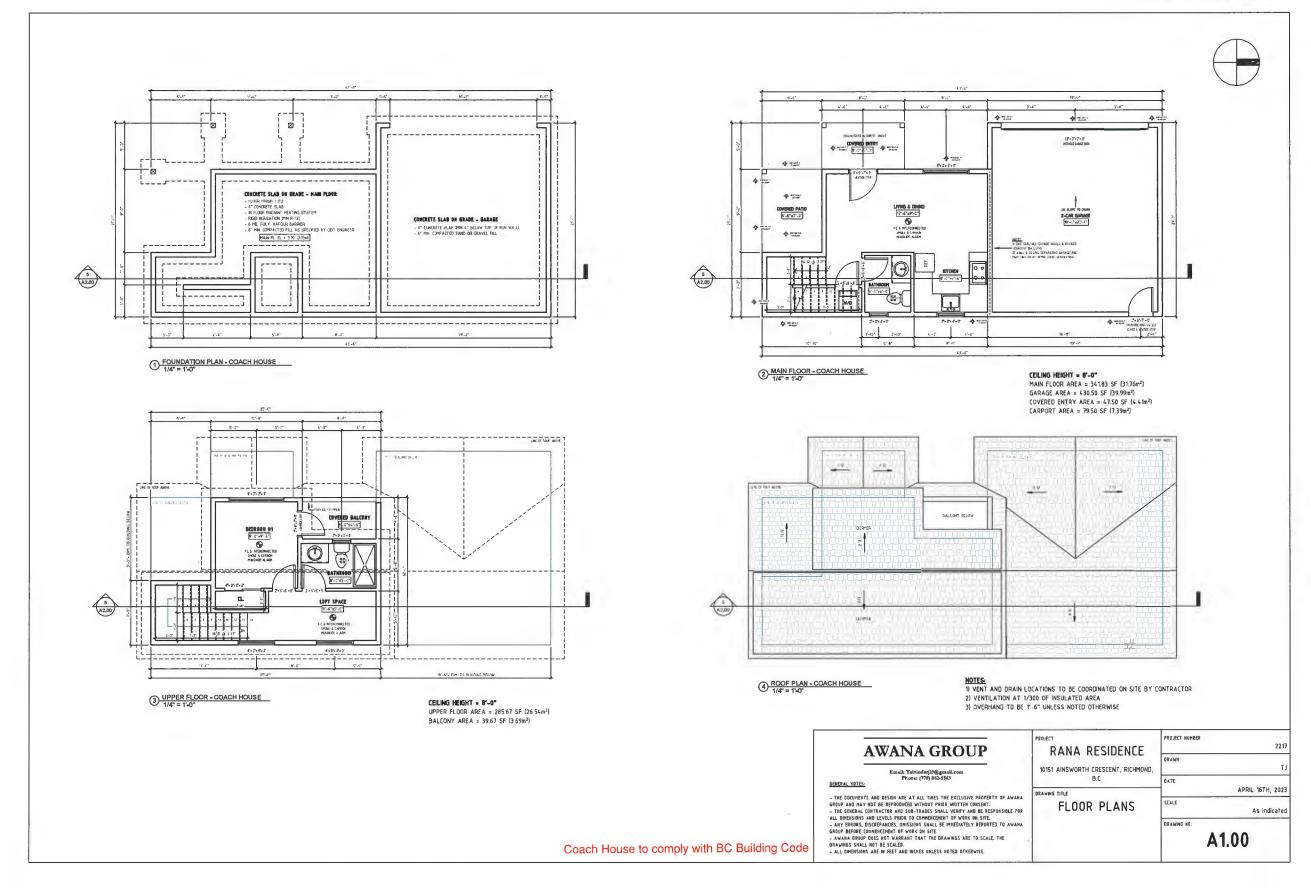
RANA RESIDENCE

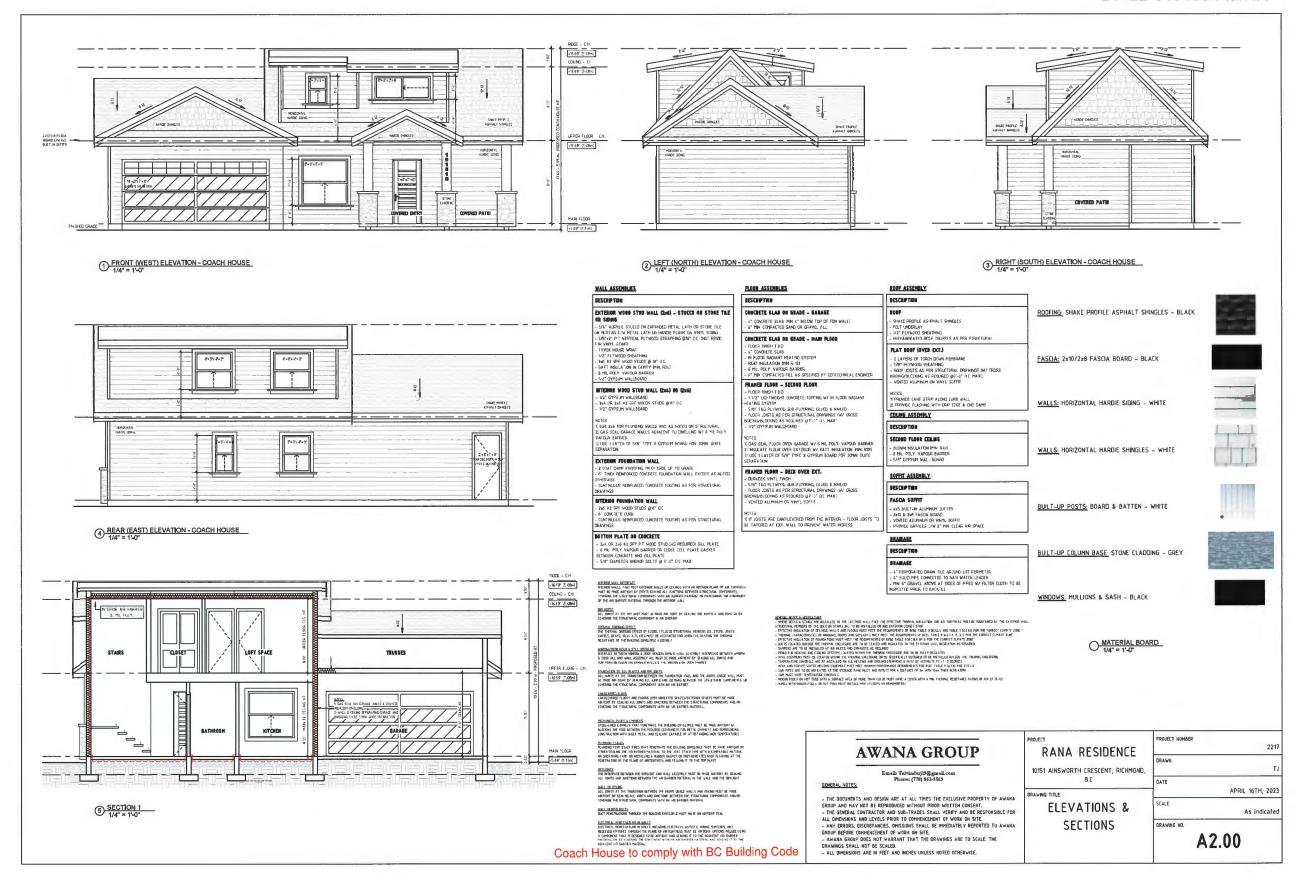
10151 AINSWORTH CRESCENT, RICHMOND, B.C

APRIL 16TH, 2023 COVER SHEET As indicated

PROJECT NUMBER

A0.00





LANDSCAPE CONTRACT DOCUMENTS

PROJECT: LANDSCAPE FOR COACH HOUSE

LOCATION: 10151 AINSWORHT CRESCENT, RICHMOND BUILDING DESIGNER: TALVINDER JAGDE LANDSCAPE ARCHITECT CONSULTANT: SW LANDSCAPE ARCHITECT ATTN: STEVE WONG 778 834-8959 stevewong234@gmail.com

SUMMARY OF LANDSCAPE SCOPE OF WORK

SUMMARY: THE LANDSCAPE PORTION OF THE PROJECT INCLUDES ALL LANDSCAPE WORKS ASSOCIATED WITH THE CONSTRUCTION OF A NEW COACH HOUSE DEVELOPMENT, THIS INCLUDES BUT NOT LIMITED TO, REMOVAL AND DISPOSAL OF DEVELOPMENT, INIS INCLUDES BUT NOT LIMITED TO, REMIDVAL AND DISPOSAL C EXISITING MATERIAL, SITE PREPARATION, GRADIING AND DRAINAGE, THE SUPPLY AND INSTALLATION OF GROWING MEDIUM, LANDSCAPE PLANTS, MULCH, IRRIGATION SYSTEM, CIP CONCRETE WALKWALLS/STAIRS, ASPHALT, FENCING, GATES, TIMBER CURB, ONE YEAR WARRANTY AND ONE YEAR LANDSCAPE MAINTENANCE, CONTRACTOR IS RESPONSIBLE FOR PROVIDING WATER FEED IN ORDER TO ALLOW FOR THE INSTALLATION OF A COMPLETE, FUNCTIONING LANDSCAPE IRRIGATION SYSTEM, LANDSCAPE DESIGN/WORKS IS TO BE COORDINATED WITH ALL OTHER WORK ON THIS SITE.

LANDSCAPE LIST OF DRAWINGS

- L0 COVER SHEET
- LAYOUT PLANTING PLAN
- TREE MANAGEMENT PLAN
- L4 DETAILS

GENERAL CONDITIONS OF THE CONTRACT

-REFER TO GENERAL CONDITIONS OF CONTRACT, BY PRIME CONSULTANT -REFER TO, AND COORDINATE THESE CONTRACT DOCUMENTS WITH THE CONTRACT DOCUMENTS WITH THE CONTRACT DOCUMENTS OF THE OTHER CONSULTANTS AND THE MAIN CONTRACT

LANDSCAPE SPECIFICATIONS

CANADIAN LANDSCAPE STANDARD (CLS), SECOND EDITION PYRIGHT, 2020, ISBN: 978-0-9950714-1-4

-PUBLISHED JOINTLY BY: CANADIAN SOCIETY OF LANDSCAPE ARCHITECTS
12 FORILLON CRESCENT, OTTAWA ON K2M 2W5

1-613-668-4775 csla-aapc.ca CANADIAN NURSERY LANDSCAPE ASSOCIATION 7856 FIFTH LINE SOUTH MILTON ON L9T 2X8

SUPPLEMENTARY SPECIFICATIONS- PROJECT SPECIFIC:

9. LANDSCAPE MAINTENANCE: ADD: PER SECTION 9.1.5. ESTABLISHMENT AND WARRANTY MAINTENANCE, THE MAINTENANCE PERIOD WILL BE FOR 1 CALENDAR YEAR FROM DATE OF ACCEPTANCE. PER SECTION 9.1.7, MAINTENANCE LEVEL FOR THIS PROJECT WILL BE AT LEVEL

CLS SPECIFICATIONS

- SCOPE OF THE STANDARD
- SCOPE OF THE STANDARD CONTRACT ADMINISTRATION SITE PREPARATION AND PROTECTION GRADING AND DRAINAGE
- GROWING MEDIUM
 PLANTS AND PLANTING
- MULCHING SEEDING AND SODDING
- LANDSCAPE MAINTENANCE **IRRIGATION SYSTEMS**
- INTEGRATED PEST AND VEGETATION MANAGEMENT
- LANDSCAPE OVER STRUCTURES 14. INTERIOR PLANTSCAPE N/A

APPENDIX A: LIST OF TABLES AND FIGURES
APPENDIX B: BASIC CONTENTS OF A LANDSCAPE COMMISSIONING PLAN
APPENDIX C: CANADIAN NURSERY STOCK STANDARD, NINTH EDITION
APPENDIX D: NATIONAL VOLUNTARY CODE OF CONDUCT FOR THE ORNAMENTAL
HORTICULTURE INDUSTRY
GLOSSARY OF TERMS AND DEFINITIONS

2. MMCD (LATEST EDITION) SPECIFICATIONS AND DRAWINGS, WITH MUNICIPAL SUPPLEMENTARY SPECIFICATIONS AND ALL APPLICABLE MUNICIPAL BY-LAWS.

3. CAN/CSA-Z614-14 CHIDREN'S PLAY SPACES AND EQUIPMENT AND IPEMA (INTERNATIONA PLAY EQUIPMENT MANUFACTURERS ASSOCIATION) STANDARD, SPECIFICATIONS FOR PLAY SURFACES TO INCLUDE ASTM F292/1951/2075/2223/355

IN CASE OF CONFLICTING SPECIFICATIONS THE MOST STRINGENT SPECIFICATION PREVAILS CONTRACTOR TO PROVIDE DIGITAL PHOTOS TO THE LANDSCAPE ARCHITECT FOR ALL WORK THAT WILL BE BURIED OR CONCEALED IN ORDER TO CONFIRM THAT THE WORK MEETS

SPECIFICATIONS AND APPLICABLE STANDARDS

3. CONTRACTOR TO PROVIDE GIGITAL PHOTOS OF ALL PLANT MATERIAL AT THE NURSERY FOR LANDSCAPE ARCHITECT APPROVAL PRIOR TO SHIPPING, PHOTOS ARE TO BE REPRESENTATIVE OF T PLANTS TO BE SHIPPED AND CLEARLY SHOW THE QUALITY AND SIZE OF THE PLANTS, A MEASURING STICK SHOULD BE USED WHERE NECESSARY TO SHOW THE HEIGHT OF A PLANT.

GENERAL PROJECT AND CONTRACTOR NOTES

- Contractor shall review these plans thoroughly, make a detailed site visit, and shall immediately bring any inconsistency, site layout problem, or any other request for clarification to the Landscape Architect for resolution prior to the delivery of any bid. Failure to do so shall cause the Contractor to be ineligible for extras relating to such matters.

 Contractor shall submit reproducible shop drawings to Landscape Architect for Owner's approval.
- Contractor shall co-ordinate with all trades to provide complete working systems.
- Drawings of existing facilities are, in general, diagrammatic. Exact locations shall be determined by the Contractor from field measurements taken by Contractor's personnel. Actual arrangement of the work shall follow locations shown on the drawings within the constraints of existing equipment and construction. Dimensions shall govern these drawings and they are not to be scaled. Any scales on drawings are only for the Contractor's convenience. Drawing and notes to drawings are correlative and have equal authority and priority. Should there be discrepancies in themselves or between them, Contractor shall base bid pricing on the most expensive combination of quality and/or quantity of the work indicated. In the event of discrepancies, the appropriate method of performing the work and/or items to be incorporated into the scope of the ork shall be determined by the appropriate design professional (eg Landscape Archite Architect, Engineer)
- 5. Contractor is responsible for the safety, actions and conduct of his employees and his subcontractors' employees while in the project area, adjacent areas and in the building and its
- 6. All work described by these documents shall be performed in full accordance with all applicable
- codes and standards,
 7. 7 All materials, finishes, manufactured items, and equipment shall be installed in full accordance with the supplier's or manufacturer's written recommendations or these documents, whichever is
- 8. Requests to substitute any product, technique, or material shall be submitted in writing to Landscape Architect for approval. Samples, product information, and drawings shall be required prior to substitution approval. Proposed substitution shall be of equal quality and performance specification to that originally specified.
- All workmanship, material, and equipment shall be guaranteed for one year from date of Owner acceptance. Any failure or deterioration within this period shall be corrected by the contractor at the contractor's expense.
- 10, Coordinate landscape drawings with architect/engineer and all other consultant drawings.

GENERAL LANDSCAPE NOTES

- 1, All landscape works are to meet the specifications and standards of the latest edition of the CANADIAN LANDSCAPE STANDARD, published by the Canadian Society of Landscape rchitects and the Canadian Nursery landscape Association.
- 2. All landscape works to be carried out by a contractor with minimum 5 years' experience doing arrandscape works for the came out by a command minimum years experience doing work similar in scope and size, and on at least 3 comparable projects. The contractor needs to be a member in good standing with the appropriate trade organization: eg, B.C., Landscape and Nursery Association (BCLNA), Irrigation industry Association of B.C. (IIABC). Execution of work to be under the direct supervision of qualified industry certified technicians,

 3. All grades to meet adjacent grades at property line. All stormwater is to be contained on site and
- away from adjacent properties. All hard surfaces to be sloped a minimum of 1.5%, and all lawn areas to be sloped a minimum of 2% to avoid standing water. Contractor is ultimately responsible for ensuring there is no standing water on site over an extended period.
- No slopes to be steeper than 2.5 horizontal: 1 vertical.
- All plant material and growing medium to meet Canadian Landscape Standard #1 specifications, Plant search area is to be any plant nursery within the Lower Mainland. Plant substitutions are only allowed if approved by Landscape Architect. Suggested plant substitutions shall be of similar species and of at least equal size to those originally specified.

 6. All shrub beds to contain minimum 18" (450) mm depth of approved growing medium over
- scarified subgrade. All lawn areas to contain minimum 6" (150) mm of approved growing medium
- over scarified subgrade.

 7. All guardrails are required wherevever the fall height is over 2 ft. Guardrails to be a minimum 42" high from any climbable surface surface. Maximum openings between pickets to be under 4". Stairs to have consistent rise/run for risers and treads. Stair treads to slope 2% to front edge of
- tread for drainage and constructed with materials or finishes to prevent slip falls. All stairs over 2 risers to have handrails between 32" to 38" high from the front of stair treads, and to extend 12' past the end of top/bottom treads.

 9. Exterior ramps to adhere to BC Building code if greater than 5% slope. Ramps to be maximum of
- 8.3% and minimum 5' width. Handrails required on both sides. Construction to adhere to BC Building code.
- 10. All retaining walls and structures over 4 ft. in height or if there are issues with soil stability require signoff from the approviate engineer (eg structural, geotechnical). Contractor to provide engir stamped shop drawings for Landscape Architect.
- 11.Landscape installation to be reviewed by registered Landscape Architect.

GENERAL TREE NOTES

- Any permitted tree removal(s) must be performed by a qualified professional.
 No grade changes are to occur within the critical root zones of any retained trees. Any exposed roots from lines of excavation must be covered with burlap and then poly plastic in an effort to prevent dessication of exposed roots; this root curtain must be removed prior to backfilling. Trees must be adquately watered during the entire construction process.
- 3. The removal of existing organics within the critical root zones of relained trees must be performed manually, when installing new plant material within the critical root zones of relained trees, if large roots (1.5' diameter and larger) are encountered, then new plantings must be shifted to accommodate. No more than 3" of additional soil for new landscaping may be added within any
- 4. Any excavation work or work within the protection zone of retained trees requires the supervision of a certified arborist. This includes, but is not limited to: demolition, the installation of any permeable or impermeable surfaces (concrete, asphalt, pavers, etc.), installation of perr temporary services (gas, sewer, storm, sanitary, communication, electrical, irrigation, etc.), during the installation of patios, driveways, or any hardscape, during the installation of footings for fences, walls, decorative walls, retaining walls, decks, and deck footings.
- 5. Construction materials must not be stored within the tree protection zone (TPZ) of trees to be retained, and TPZ fencing to remain intact for the entire construction process. Signage must be clearly posted on each side of the barrier indicating Tree protection zone-Do not enter of modify'. Contact your project arborist for any TPZ barrier issues.
- 6. Refer to arborist report and drawing where applicable

MATERIALS LIST-COORDINATE WITH SPECIFICATIONS

- ASPHALT: 3" of compacted hot mix asphalt applied in 2 lifts over 4" of well compacted %" minus base course per municipal and MMCD specifications.
- 2. FENCE- POST SADDLE BRACKET: By Simpson Strong-Tie, WUB44RHDG for full dimension 4" post, galvinized with 15M rebar.

 3. FENCE-WOOD: Full dimension #2 and better cedar boards, finished with 2 coats of Sikkens
- semi-transparent cedar stain. Posts and kick board to be full dimension wood, incised and rated
- for ground contact approved per CCA/MCA PT.

 4. GATE HARDWARE: Hardware should be in black finish by Onward Hardware with 3 heavy duty 8" strap hinges (923 FBR), adjustable-tension gate spring (304 FBR), gate latch (301 FBR) gate pull (478 FBR0) and a rubber gate stopper (480 BPYR0) or pre-approved equivalent. If lockable latch is required: Lockable latch by National Hardware, V6203, N346-202 for keyed access from both sides and with polymer and stainless steel construction.
- 5. GRAVEL EDGE: Gravel edge around the building to be 3/4" clean drain rock, minimum 4" depth. 6. GROWING MEDIUM: In accordance with CLS standards, latest edition. For Turf Areas: Level 1H (High Traffic Lawn Areas), containing by weight: 70-90% sand, maximum 25% fines (max 20% clay), 3-5% organic matter, with pH between 6-7; For Planting Areas: Level 1P (Planting Areas), containing by weight: 50-70% sand, maximum 25% fines (max 20% clay), 10-20% organic matter, with pH between 4.5-6.5. Supplied by Veralec Engineered Products (www.veratecgroup.com), DENBOW (www.denbow.com), SUMAS GRO MEDIA (www.sumasgromedia.com) or equivalent; 6"min for lawn areas on grade, 18" min for planted areas on grade, over scarified base, or as otherwise specified. A current representative soil analysis is to be done by Pacific Soil Analysis, Richmond to confirm soil sample meets specifications prior to shipping, If after shipping the quality of the soil is in question, further sampling and testing by Pacific Soil Analysis will be required at contractor's expense. If it is determined that the soil does not meet CLS Specifications, the soil is to be removed at contractor's expense. Contact information for Pacific Soil Analysis is: #5-11720 Voyageur Way, Richmond, BC V6X 3G9: Phone (604) 273-8226. For growing medim on roof, see section under
- 7. IRRIGATION: Supply and installation required for a complete automatic, inground impation system to provide supplemental water efficiently and uniformly. All components to be new, and includes all pipes, sleeves, valves, in-ground irrigation boxes, sprinkler heads, solenoid wires, controller and rain sensor. Hose bibs and quick couplers to be on their separate zone. Controller to have 2 extra zones for future expansion and if installed outside, to have controller and wiring secured in a lockable, weatherproof metal box, Irrigation components to be Rainbird, Toro or Hunter, Irrigation design and installation per Canadian Landscape Standards, Iatest edition, Design to be completed by a qualified designer/contractor with IIABC. Shop drawings for the irrigation design are to be provided by contractor and to be approved by the landscape architect prior to installation. Contractor is responsible for providing a water service line and connecting irrigation system to water service line complete with backflow preventor, pressure reducing valve and isolation valves. Contractor to adjust irrigation controller, sprinkler heads and commission system in addition to providing as-built drawings and a one year warranty.

 8. LANDSCAPE EDGING: HDPE edging by Precision Edging (PE 20C) 7/16* by 4", screwed to
- plastic spikes (1,25" by 12") every 2' OC,
- MULCH: To be composted fir bark, having dark brown, fine texture and ½" minus, applied evenly
 at a 2" depth over plant beds. Available from Augustine Soil and Mulch (604 465-5193) or
- 10.PAVERS-PERMEABLE: AQUAPAVE by Abbotsford Concrete Products, Standard Series, 4-5/16" by 8 3/4" by 3 1/8" inches, Natural colour, running bond with soldier course in Charcoal color installed per manufacturer's instructions.
- 11.PLANT MATERIAL: All plant material are to meet current Canadian Landscape Standard (CLS)
 #1 and installed according to current CLS standards by qualified contractor. Plant search is generally throughout the Lower Mainland except as indicated otherwise. Any plant substitutions must be approved by Landscape Architect.

 12.RETAINING WALL-CONCRETE: Per applicable industry standards. Concrete to be reinforced
- with rebar as shown on drawings. Drawings are to be confirmed with structural engineer. For retaining walls over 4' high, or where there may be issues with glaobal stability, stamped engineered drawings are required. Provide shop drawings for consultant review prior to placing showing expansion and control joints.
- 13,SOD: All sod to be sand based sod (Perennial rye/Kentucky bluegrass) with no netting, Supplied by Bos Sod Farms or equivalent. No clay or silt soil to be allowed.
- 14.WOOD: Per industry standards. All exterior wood to be rot resistant, either western red cedar. yellow cedar, robinia, ipe or pressure treated (PT), Minimum standard to be #2 and better, Wood to be finished with minimum 2 coats of an approved exterior grade finish, All wood in contact with ground to be incised, ground contact approved per CCA/MCA PT. All cuts to be sealed prior to

NOTE: ALL MATERIALS SHOWN ON DRAWINGS ARE NOT NECECARILY INCLUDED IN THIS MATERIALS LIST CONTRACTOR IS RESPONSIBLE FOR DETERMINING ALL MATERIALS. REQUIRED TO COMPLETE LANDSCAPE WORKS PER CONTRACT DOCUMENTS.





STREET VIEW OF PROJECT SITE

No.	Date	fssue/Revision Notes
А	1/8/2023	FOR COORDINATION
в	1/11/2023	SUBMIT FOR BP
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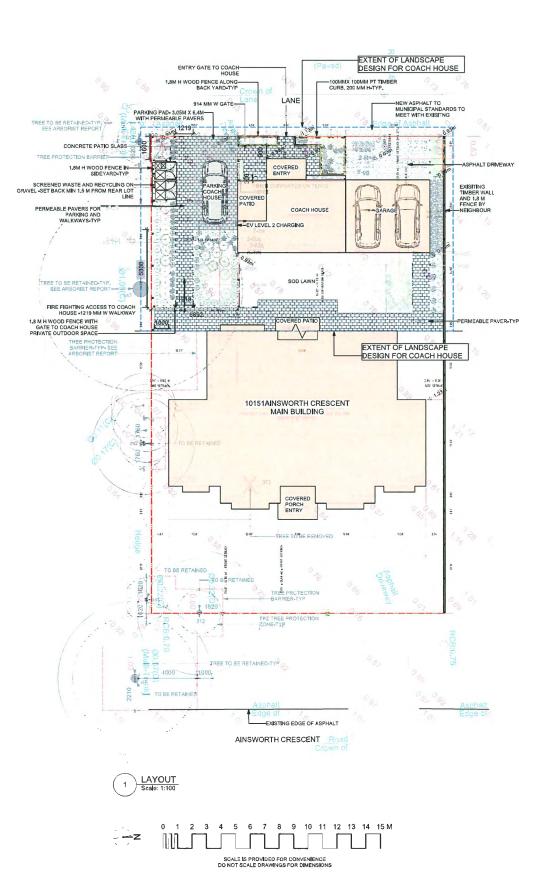
SW LANDSCAPE ARCHITECT 19 MELBOURNE AVENUE, NORTH VANCOUN

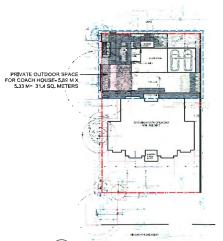
HARK RANA

RANA RESIDENCE 10151 AINSWORTH CRESCENT RICHMOND, BC

COVER SHEET

STEVE WONG	2322+36
SW	ace AS NOTED
	Street No.
Dete	L-0
DECEMBER 2022	of
AINSWORTH v1.vwx	5





COACH HOUSE PRIVATE OUTDOOR SPACE Scale: 1:300

COACH HOUSE PRIVATE OUTDOOR SPACE

TOTAL PROPOSED 31.4 SQ M AREA REQUIRED 30.0 SQ M

DP 22-019430 Plan #5

- GENERAL PROJECT AND CONTRACTOR NOTES

 1. Contractor shall review these plans thoroughly, make a detailed site visit, and shall immediately bring any inconsistency, site layout problem, or any other request for clarification to the Landscape Architect for resolution prior to the delivery of any bid, Failure to do so shall cause the Contractor to be ineligible for extras relating to such matters.

- Contractor to be ineligible for extras relating to such matters.

 Contractor shall submit reproducible shop drawings to Landscape Architect for Owner's approval.

 Contractor shall co-ordinate with all trades to provide complete working systems.

 Drawings of existing facilities are, in general, diagrammatic. Exact locations shall be determined by the Contractor from field measurements taken by Contractor's personnel. Actual arrangement of the work shall follow locations shown on the drawings within the constraints of existing equipment and construction. Dimensions shall govern these drawings and they are not to be scaled. Any scales on drawings are only for the Contractor's convenience. Drawing and notes to drawings are correlative and have equal authority and priority. Should there be discrepancies in themselves or between them, Contractor shall base bid pricing on the most expensive combination of quality and/or quantity of the work indicated. In the event of discrepancies, the appropriate method of performing the work and/or items to be incorporated into the scope of the work shall be determined by the appropriate design professional (eg Landscape Architect,
- Architect, Engineer)

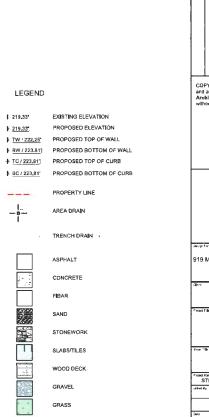
 5. Contractor is responsible for the safety, actions and conduct of his employees and his subcontractors' employees while in the project area, adjacent areas and in the building and its
- subcontractors employees while in the project area, adjacent areas and in the building and its vicinity.

 6. All work described by these documents shall be performed in full accordance with all applicable codes and standards.

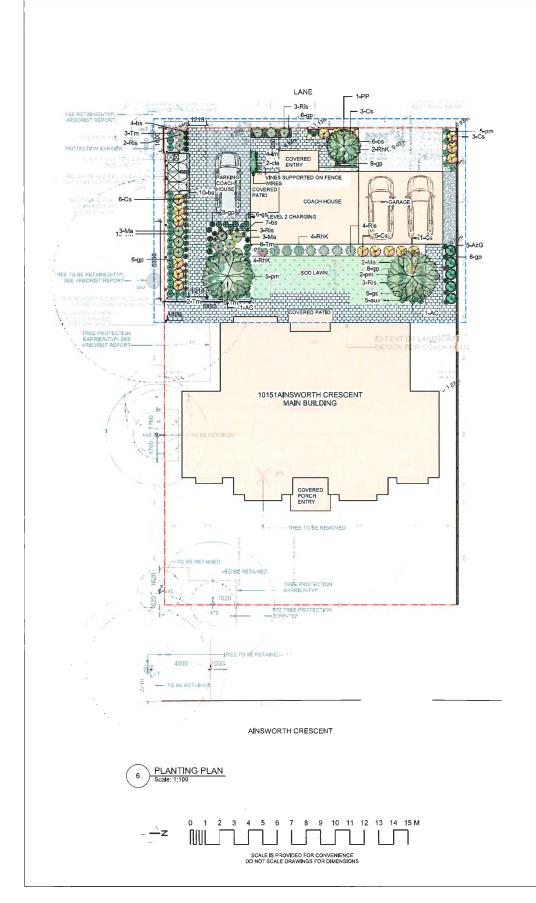
 7. All materials, finishes, manufactured items, and equipment shall be installed in full accordance with the supplier's or manufacturer's written recommendations or these documents, whichever is more stringent.
- Requests to substitute any product, technique, or material shall be submitted in writing to Landscape Architect for approval. Samples, product information, and drawings shall be required prior to substitution approval. Proposed substitution shall be of equal quality and performance
- specification to that originally specified.

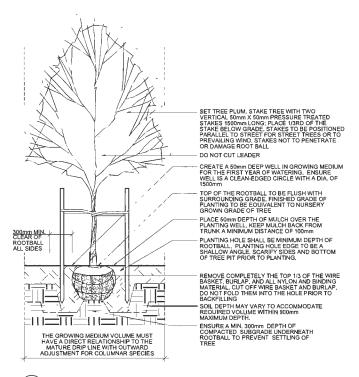
 All workmanship, material, and equipment shall be guaranteed for one year from date of Owner acceptance. Any failure or deterioration within this period shall be corrected by the contractor at
- the contractor's expense,

 10.Coordinate landscape drawings with architect/engineer and all other consultant drawings.

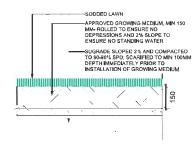


NO.	Date	Issue/Revision Notes				
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Prince III	SW LANL MEL BOURNE WWW.SW 10151 AIN RI PEVE WONG SW CENBER 2022	AVENUE, NORTH VANCOUVER andscape architect.com HARK RANA NA RESIDENCE SWORTH CRESCENT CHMOND, BC LAYOUT PORT 2022-36 SIGN AS NOTED				





1 TREE PLANTING DETAIL Scale: N/A





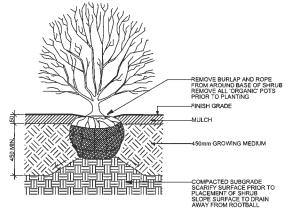
Common Name	No.	Size	Spacing	Syn
Vine maple	2	7 cm	as shown	AC
Parrotia	1	7 cm	as shown	PP
Azalea	5	#2 pot	as shown	AzG
Redtwig dogwood	18	#2 pot	as shown	Cs
Oregon grape	8	#2 pot	as shown	Ma
Rhododendron	10	#2 pot	as shown	RhK
Red flowering currant	15	#2 pot	as shown	Ris
Yew	34	1.2 m	as shown	Tm
BACEOUS PERENNIALS				
Kinnickinnick	5	#1 pot	as shown	auv
Deer fern	27	#1 pat	as shown	bs
Evergreen clematis	2	#1 pot	as shown	cla
Wintergreen	43	#1 pot	as shown	gp
Salal	12	#1 pot	as shown	gs
Lily turf	4	#1 pot	as shown	1m
Western sword fern	12	#1 pot	as shown	om
	Vine maple Parrotia Azalea Redtwig dogwood Oregon grape Rhedodendron Red flowering currant Yew SACEOUS PERENNIALS Kinnickinnick Deer fern Evergreen clematis Wintergreen Salal	Vine maple 2	Vine maple 2 7 cm	Vine maple 2 7 cm as shown

GENERAL PLANTING NOTES

- 1. GROWING MEDIUM: In accordance with CLS standards, latest edition, For Turf Areas: Level 1H (High Traffic Lawn Areas), containing by weight: 70-90% sand, maximum 25% fines (max 20% clay), 3-5% organic matter, with pH between 6-7; For Planting Areas: Level 1P (Planting Areas), containing by weight: 40-80% sand, maximum 25% fines (max 20% clay), 10-20% organic matter, with pH between 4,5-6. Supplied by Veratec Engineered Products (www.veratecgroup.com), DENBOW (www.denbow.com), SUMAS GRO MEDIA (www.sumasgromedia.com) or equivalent; 6"min for lawn areas on grade, 18" min for planted areas on grade, over scanfied base, or as otherwise specified. A current representative soil analysis is to be done by Pacific Soil Analysis, Richmond to confirm soil sample meets specifications prior to shipping. If after shipping the quality of the soil is in question, further sampling and testing by Pacific Soil Analysis will be required at contractor's expense. If it is determined that the soil does not meet CLS Specifications, the soil is to be removed at contractor's expense. Contact information for Pacific Soil Analysis is: #5-11720 Voyageur Way, Richmond, BC V6X 3G9: Phone (604) 273-8226.
- (004) 273-36220.

 MULCH: To be composted fir bark, having dark brown, fine texture and ½" minus, applied evenly at a 2" depth over plant beds. Available from Augustine Soil and Mulch (604 465-5193) or equivalent.
- PLANT MATERIAL: All plant material are to meet current Canadian Landscape Standard (CLS) #1 and installed according to current CLS standards by qualified contractor. Plant search is generally throughout the Lower Mainland except as indicated otherwise. Any plant substitutions must be approved by Landscape Architect.
- Intust be approved by Landscape Actinect.

 IRRICATION: Supply and installation required for a complete automatic, inground irrigation system to provide supplemental water efficiently and uniformly. All components to be new, and includes all pipes, sleeves, valves, in-ground imigation boxes, sprinkler heads, solenoid wires, controller and rain sensor. Controller to have 2 extra zones for future expansion and if installed outside, to have controller and wiring secured in a lockable, weatherproof metal box. Irrigation components to be Rainbird, Toro or Hunter. Irrigation design and installation per Canadian Landscape Standards, latest edition. Design to be completed by a qualified designer/contractor with IIABC. Shop drawings for the irrigation design are to be provided by contractor and to be approved by the landscape architect prior to installation. Contractor is responsible for providing water service and connecting irrigation system to water service complete with backflow preventor, pressure reducing valve and isolation valves. Contractor to adjust irrigation controller, sprinkler heads and commission system in addition to providing as-built drawings and a one year warranty.



NOTES:

SHRUB TO BE PLANTED WITH ELEVATION OF TOP OF ROOTBALL OR POT LEVEL WITH FINISH GRADE OF GROWING MEDIUM.
 COMPOSTED BARK MULCH AT 50mm DEPTH TO BE KEPT AT LEAST 50mm AWAY FROM STEMS OF SHRUB.
 PLANTING PIT MUST BE FREE DRAINING

3 SHRUB PLANTING DETAIL
Scale: N/A

IRRIGATION: Supply and installation required for a complete automatic, inground irrigation system to provide supplemental water efficiently and uniformly. All components to be new, and includes all pipes, sleeves, valves, in-ground irrigation boxes, sprinkler heads, solenoid wires, controller and rain sensor. Hose bibs and quick couplers to be on their separate zone. Controller to have 2 extra zones for future expansion and if installed outside, to have controller and wiring secured in a lockable, weatherproof metal box. Irrigation components to be Rainbird, Toro or Hunter. Irrigation design and installation per Canadian Landscape Standards, latest edition. Design to be completed by a qualified designer/contractor with IIABC. Shop drawings for the irrigation design are to be provided by contractor and to be approved by the landscape architect prior to installation. Contractor is responsible for providing a water service line and connecting irrigation system to water service in ecomplete with backflow preventor, pressure reducing valve and isolation valves. Contractor to adjust irrigation controller, sprinkler heads and commission system in addition to providing as-built drawings and a one year warranty.

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Α	1/8/2023	FOR COORDINATION
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SW LANDSCAPE ARCHITECT

19 MELBOURNE AVENUE, NORTH VANCOUV!

www.swlandscapearcnitect.com

HARK RANA

RANA RESIDENCE 10151 AINSWORTH CRESCENT RICHMOND, BC

PLANTING PLAN

STEVE WONG	2022+36
SW	AS NOTED
DECEMBER 2022 CNDF# Nore AINSWORTH V1.vvx	L-2 ——— of ———

DP 22-019430 Plan #7

Tree Inventory and Assessment

- . DBH Diameter at 1,4m height measured in centimeters on trees with multiplie stems the 3 largest sections measured at 1,4m are combined to make up the total.
- critical root zone (TPZ) = dbh x 6 unless otherwise specified
 LCR = live crown ratio, percentage of live crown remaining

• cf - City owned tree

• os - off site tree

• CR - Crown radius

ESINO I	CHANGE PARTY.	linderstand Magner	CENT (con)	例	CIÉ (mi)	ramako Siriji	Annua & Countin	Audies	TFIE, Sek
ci1	Hawthorn	Crataegus Isevigata	12+ 12+ 10= 34	70	1.5	3-6	2.4m, and has some amail deadwood. City requires a 4m protection zone area for the tree. Cutting and capping of services is to be carried out outside the	Retain Install a tree barrier 4,00m from the tree Antionist to supervise any work	
372	Hawthorn	Crataegus Iaevigala	25	20	2	3-5	Am TPZ. Single stem, splitting to multiple codommant leaders around 2m with bark individuals, The tree base budges. The canopy has significant deacwood, Proposed building does not conflict with the tree location, Lendscape work will enter the TPZ of the tree.	within 1m of the TPZ Retain Install a tree barrier 1.50m from the tree Arbor st supervision recommended for landscape work that enters the TPZ	1.50
373	Cypress	Chamaecyparis spp.	18+ 30= 48	90	1	3-5	Mulli-atom tree from 0.5m. The is 0.5m from the existing house. Canapy has \$\frac{1}{2}\text{if desafrood on the Interfac.} The tree location conflicts with the proposed building foolprint	Remove	2,88
os1	Scots Pine	Pinus sylvestria	21	20	1	3-5	Single stem with multiple codominant leaders beginning around 2m. The entropy is erround 3m and concentrated at the line top. Proposed building does not conflict with the line location. Landscape work will enter the TPZ of the tree	Retain Install a tree barrier 1,50m from the tree Arbor st supervision recommended for landscape work that enters the TPZ	1,50
os2	Western Red Cedar	Thuja piicate	27	70	2	3.5	Single stem, satisfing formulatile conformant leaders around 3m with that industions, Caropy has been pruned back from the subjects house. The lis aftering a hedgerow, and the canopy has light deedwood on the interfact. Landscape pure installation will enter the TPZ of the tree. House foundation preparation and installation will enter the TPZ.		1,62
os3	Douglas Fir	Pseudotauga manziesü	110	70	4	15-18	Single stem, splitting to multiple codominant leaders around 4-dm with bank industrons. The cancery begins around 5-dm with bank industrons. The cancery begins around 5-dm with the same give disclosed on the intended. The tree usins in a slightly investigated to bed, in the control of the c	Ratain bratail a free barrier 6,50m from the tree, Actionst supervision recommended for house 8, coach house body coach house body preparation and installation, value parks and fail and parks and fail parks and fail parks and fail fai	
os4	Magnolia	Magnolia sup.	9+ 7+ 7= 23		1	3.5	Multi-stem tree from the base, Tree has been previously topped with regenerated leaders. The compay has some small deadwood. Garbage and recycling area installation will enter the TPZ of the tree.	Ratialn Install a tree barrier 1,50m from the tree, Arbonst supervision recommended for garbage and recycling area installation or lendscaping that enters the TPZ	1.50

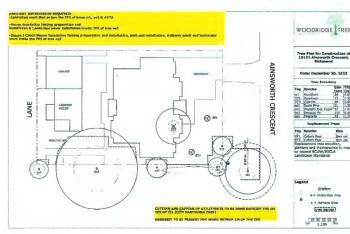


DIAGRAM FROM ARBORIST REPORT
Scale: NTS

GENERAL TREE NOTES

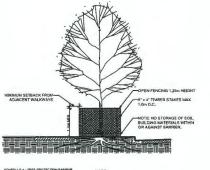
- Any permitted tree removal(s) must be performed by a qualified professional.
 No grade changes are to occur within the critical root zones of any
- retained trees. Any exposed roots from lines of excavation must be covered with burlap and then poly plastic in an effort to prevent dessication of exposed roots; this root curtain must be removed prior to backfilling.
- Trees must be adquately watered during the entire construction process.

 3. The removal of existing organics within the critical root zones of retained trees must be performed manually, when installing new plant material within the critical root zones of retained trees, if large roots (1.5' diameter and larger) are encountered, then new plantings must be shifted to accommodate, No more than 3" of additional soil for new landscaping may
- accommodate, No more than 3" or additional soil for new landscaping mabe added within any critical root zone.

 4. Any excavation work or work within the protection zone of retained trees requires the supervision of a certified arborist. This includes, but is not limited to; demolition, the installation of any permeable or impermeable surfaces (concrete, asphalt, pavers, etc.), installation of permanent or surfaces (concrele, asphalt, pavers, etc.), installation of permanent or temporary services (gas, sewer, storm, sanitary, communication, electrical, irrigation, etc.), during the installation of patios, driveways, or any hardscape, during the installation of footings for fences, walls, decorative walls, retaining walls, decks, and deck footings.

 5. Construction materials must not be stored within the tree protection zone (TPZ) of trees to be retained, and TPZ fencing to remain intact for the entire construction process. Signage must be dearly posted on each side of the barrier indicating 'Tree protection zone-Do not enter of modify'. Contact your project arborist for any TPZ barrier issues.

 6. Refer to arborist report and drawing, Prepared by Davey resource group.
- Refer to arborist report and drawing, Prepared by Davey resource group, Dated January 31, 2022. Refer to and coordinate with other project drawings.





3 TREE PROTECTION BARRIER
Scale: N/A

ONSITE TREE SUMMARY

TREES REMOVED

TREES PLANTED

REFER TO ARBORIST REPORT BY WOODBRIDGE TREE CONSULTING ARBORIST, UPDATED DEC. 20, 2022

No.	Date	Issue/Revision Notes
Α	1/8/2023	FOR COORDINATION
В	1/11/2023	SUBMIT FOR BP
		1

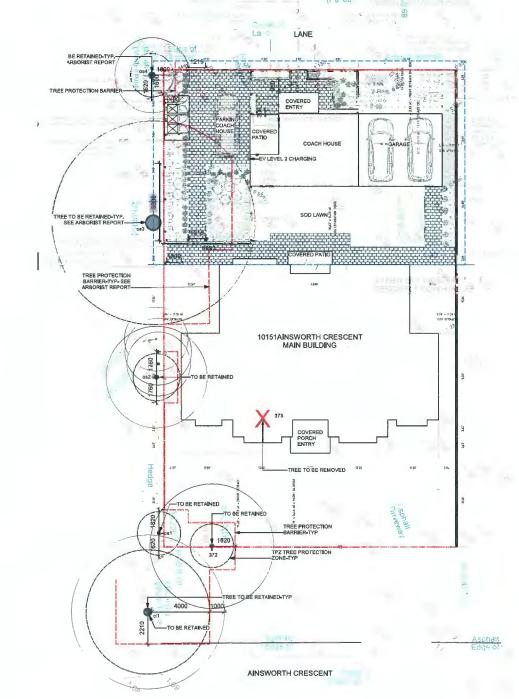
SW LANDSCAPE ARCHITECT 19 MELBOURNE AVENUE, NORTH VANCOUV

HARK RANA

RANA RESIDENCE 10151 AINSWORTH CRESCENT RICHMOND, BC

TREE MANAGEMENT

STEVE WONG	2022=36
SW	AS NOTED
DECEMBER 2022	L-3
ADFRIBER AINSWORTH v1.vwx	5



0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 M

SCALE IS PROVIDED FOR CONVENIENCE DO NOT SCALE DRAWINGS FOR DIMENSION

1 TREE MANAGEMENT Scale: 1:100

