# **ATTACHMENT F** LANDSCAPE PLAN AND DETAILS

# **DESIGN PRECEDENTS**

### **PLANTINGS**



















SITE FURNISHINGS









## DESIGN RATIONAL F

### SITE CONTEXT

Located at 821 Haliburton Street, the project site is situated between the Island Highway and Sunueymuxw IR#1, in the southeast guarter of Nanaimo's South End Neighbourhood Plan area. The site drops 10m from the Island Highway to Haliburton Street. resulting in a north-east aspect that offers expansive views of the Nanaimo River estuary and Saysutshun, Protection and Gabriola Islands. Rocky soils predominate the site, and the remnant forest is comprised primarily of Bigleaf maple, with a lesser component of Douglas fir and Red alder.

#### **DESIGN RATIONALE**

The landscape design takes cues from the City of Nanaimo's South End Neighbourhood Plan, Zoning Bylaw 4500 and City Plan: Reimagine Nanaimo. The South End Neighbourhood Plan states that ecosystem complexity and habitat enhancement are basic concepts of neighbourhood sustainability, that landscaping should consider native plant diversity, and that the protection and preservation of views to the ocean are of great importance. Principle 5 of the Plan is to "Preserve, enhance and restore the natural environment," and Principle 8 is to "Maintain key views and unique vistas."

Bylaw 4500 provides additional guidance, recommending an informal design approach to the landscape, including maintaining an equal balance of coniferous and deciduous trees in the south end of Nanaimo.

Section C.1.3 of City Plan: Reimagine Nanaimo outlines desired outcomes and policies relating to the Urban Tree Canopy, Natural Areas and Greenways. The plan targets enhanced ecosystem biodiversity and resilience, as well as consideration of climate change when replacing or replanting new trees; and promotion of pollinator friendly plants on public and private lands.

The intent of these policies and regulations is achieved at 821 Haliburton by going above and beyond the 49 required replacement trees, providing an additional 52 landscape trees that contribute to habitat diversity, watershed health, climate resilience and visual interest. To preserve views to the ocean considered so important in the South End Neighbourhood Plan, while creating buffers to adjacent uses including the Highway, trees are generally kept to the periphery of the parcel. Some smaller deciduous trees drift toward the front of the building to moderate the architecture along Haliburton. Overall, the planting scheme is inspired the Coastal Douglas fir ecosystem, including forest edges and meadow gardens that will result in a thriving, diverse and climate resilient urban ecosystem.

### **KEY DESIGN FEATURES AND ELEMENTS**

- · Forest Edge: A Coastal Douglas Fir inspired forest that includes a mix of evergreen & deciduous trees, shrubs, and groundcovers embraces the rear and sides of the proposed building. Lower, deciduous trees closer to the front of the building frame important views, increase species diversity and ensure solar access to the primary building façade.
- Stroll Garden: A meandering path through a garden that incorporates indigenous understory species, pollinator plants and ornamental perennials offers a contemplative stroll for residents to enjoy fresh air and beautiful vistas.
- Meadow Garden: A meadow landscape that includes a mix of evergreen & deciduous shrubs, perennial grasses & flowers, and groundcovers to add diversity, provide habitat to pollinators, offer visual interest, and to preserve views to the Nanaimo River estuary and beyond.
- Terraced Gardens: Due to the sloping nature of the site, sunken patios at the rear of the building nestle private patios into the landscape and provide refuges that immerse residents into the natural environment.
- Site Accessibility: An accessible entrance is provided that connects the main entry of the building to Haliburton Street through a refined walkway through the parking area at the front of the building.

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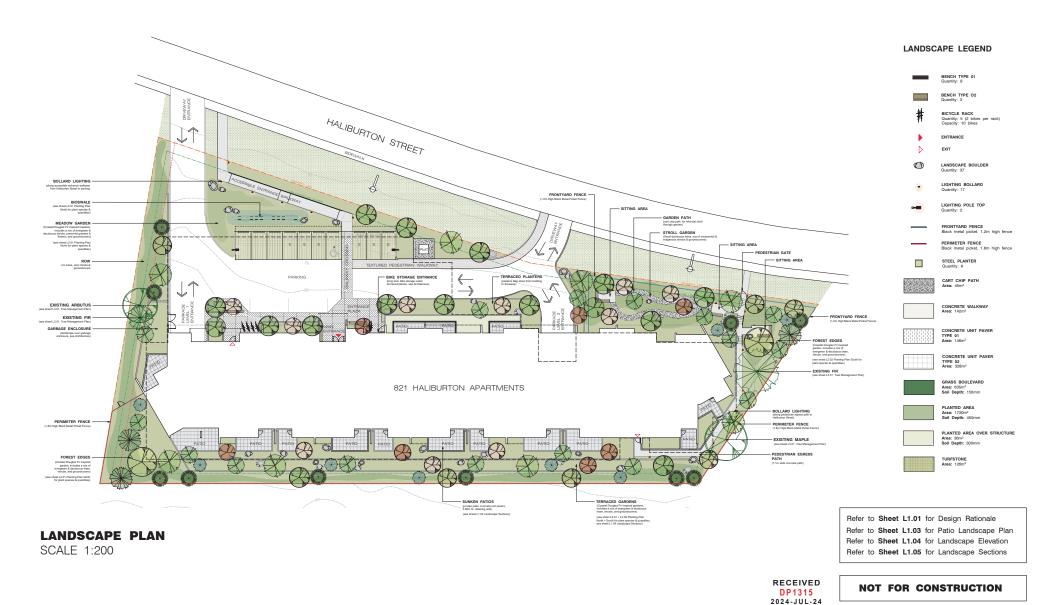
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PROJECT HALIBURTON APARTMENTS 821 Haliburton Street Nanaimo, BC, V9R 4V9

LANDSCAPE DESIGN **RATIONALE** 

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DATE	July, 2022	(





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PROJECT
HALIBURTON APARTMENTS
821 Haliburton Street
Nanaimo, 8C, V9R 4V9

LANDSCAPE PLAN

PROJECT ID 220009

DB CM CB KS

SCALE 1200

DATE July, 2022

L1.02

LANDSCAPE LEGEND

EXIT

LANDSCAPE BOULDER

Quantity: 37

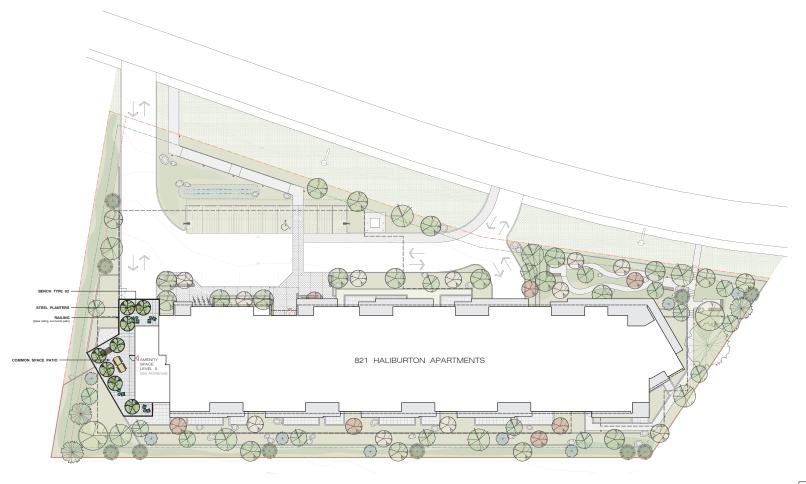
BENCH TYPE 02 Quantity: 3 BICYCLE RACK Quantity: 5 (2 bikes per rack Capacity: 10 bikes

LIGHTING POLE TOP

PERIMETER FENCE Black metal picket, 1.8m

CONCRETE WALKWAY Area: 142m<sup>2</sup> CONCRETE UNIT PAVER TYPE 01 Area: 148m<sup>2</sup>

PLANTED AREA OVER STRUCTURE Area: 36m² Soil Depth: 300mm



# ROOFTOP LANDSCAPE PLAN

SCALE 1:200

Refer to Sheet L1.01 for Design Rationale
Refer to Sheet L1.02 for Landscape Plan
Refer to Sheet L1.04 for Landscape Elevation
Refer to Sheet L1.05 for Landscape Sections

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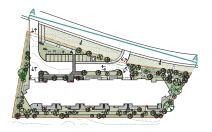
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	HALIBURTON APARTMENTS
	821 Haliburton Street Nanaimo, BC, V9R 4V9
	PATIO LANDSCAPE PLAN

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		14	<b>03</b>



# A HALIBURTON STREET ELEVATION

SCALE 1:125



Refer to **Sheet L1.01** for Design Rationale Refer to **Sheet L1.02** for Landscape Plan Refer to **Sheet L1.03** for Patio Landscape Plan

Refer to Sheet L1.05 for Landscape Sections

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				HALIBURTON APARTMENTS
				821 Haliburton Street Nanaimo, BC, V9R 4V9
				LANDSCAPE ELEVATION





Refer to Sheet L1.01 for Design Rationale
Refer to Sheet L1.02 for Landscape Plan
Refer to Sheet L1.03 for Patio Landscape Plan
Refer to Sheet L1.04 for Landscape Elevation

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HALIBURTON AP	ARTMENTS
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Nanaimo, BC, V9R 4V9	

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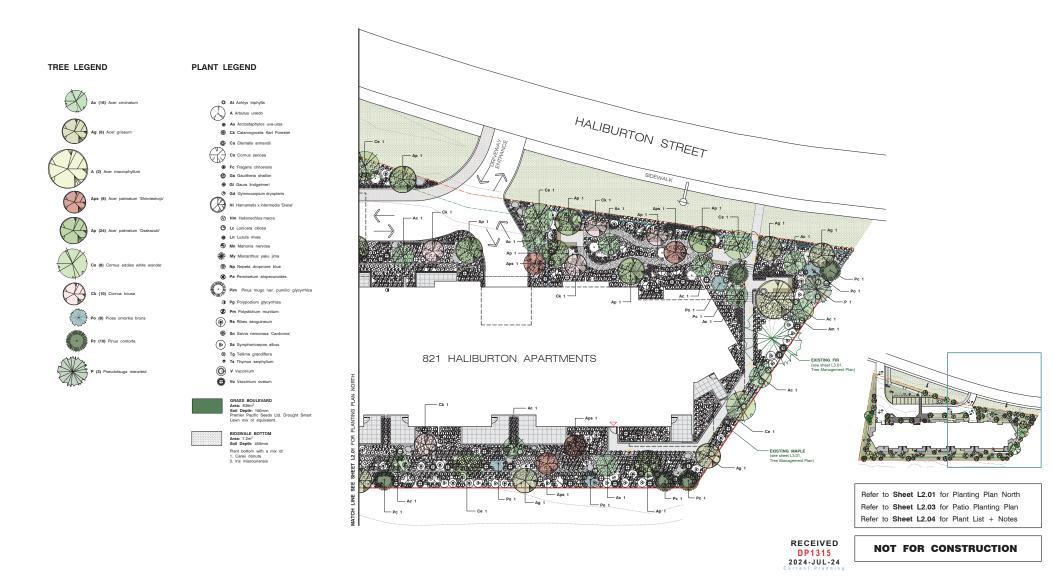
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**PLANTING PLAN NORTH** 









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IALIBURTON APAR1	MENTS	
21 Haliburton Street lanaimo, BC, V9R 4V9		
PLANTING	PLAN	SOUTH

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	12	02

### TREE LEGEND













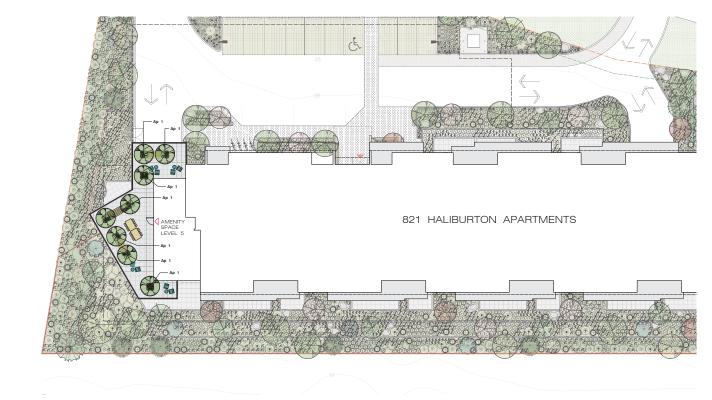






### PLANT LEGEND





Refer to Sheet L2.01 for Planting Plan North Refer to Sheet L2.02 for Planting Plan South Refer to Sheet L2.04 for Plant List + Notes

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BIOSWALE BOTTOM Area: 7.2m<sup>2</sup> Soil Depth: 450mm

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				HALIBURTON APARTMENTS
				821 Haliburton Street Nanaimo, BC, V9R 4V9
				PATIO PLANTING PLAN



<b>Key</b>	Qty	Botanical Name	Common Name	Pot Size	Spacing
	erous	Trees			
Po	8	Picea omorika bruns	Serbian Spruce	1.5m ht	
Pc P	10	Pinus contorta var.contorta Pseudotsuga menziesii	Shore Pine Douglas Fir	1.5m ht #15	
Р	3	Pseudotsuga menziesii	Douglas Fir	#15	
Decid	luous 1				
Ac	16	Acer circinatum	Vine Maple	#7	Multistem
Ag A	6	Acer griseum	Paper Bark Maple	1.5m ht	
A Ap	2 24	Acer macrophyllum Acer palmatum 'Osakazuki'	Big Leaf Maple Japanese Maple	#20 1.5m ht	
Ap Aps	24 8	Acer palmatum 'Osakazuki' Acer palmatum 'Shindeshojo'	Japanese Maple Japanese Maple	1.5m ht 1.5m ht	
Ce	8	Cornus 'Eddies White Wonder'	White Flowering Dogwood	#20	
Ck	10	Cornus kousa	Red Flowering Dogwood	1.5m ht	
Conit	erous	Shruhs			
P	6	Pinus mugo 'var. pumilio'	Dwarf Mountain Pine	#5	2m o.c.
Decic Cs	luous \$	Shrubs Cornus serices	Red Twig Dogwood	#1	2m o c
US Hi	4	Hamamelis x intermedia	Witch Hazel	#5	2m o.c. 2m o.c.
Rs	107	Ribes sanguineum	Red Flowering Currant	#1	1.2m o.c.
Sa	129	Symphoricarpos albus	Common Snowberry	#1	1.2m o.c.
V	16	Vaccinium	Blueberries	#1	1.2m o.c.
Ever	reen S	hrubs			
Α .	6	Arbutus unedo 'Compacta'	Compact Strawberry Tree	#7	2m o.c.
Vo	167	Vaccinium ovatum	Evergreen Huckleberry	#1	1m o.c.
Grou	ndcove	ers & Ferns			
Au	582	Arctostaphylos uva-ursi	Kinnikinnick	10cm	45cm o.c.
Fc	277	Fragaria chiloensis	Coastal Strawberry	10cm	45cm o.c.
Gs	575	Gaultheria shallon	Salal	#1	60cm o.c.
Gd	78	Gymnocarpium dryopteris	Oak Fern	10 cm	30cm o.c.
Mn	1006	Mahonia nervosa	Dull Oregon Grape	#1	60cm o.c.
Pg	290	Polypodium glycyrrhiza	Licorice Fern	10cm #1	45cm o.c.
Pm Te	1170 29	Polystichum munitum Thymus serphyllum	Sword fern Creeping Thyme	#1 10cm	60cm o.c.
15	29	mymus serpnylium	Greeping I nyme	iucm	aucm é.c.
		Grasses			
Ck	34	Calamagrostis Karl Forester	Feather Reed Grass	#1	60cm o.c.
Hm	357	Hakonechica macra	Japanese Forest Grass	#1	60cm o.c.
Ln	69	Luzula nivea	Snowy Woodrush	#1	45cm o.c.
My	16 73	Miscanthus yaku jima	Maiden Grass Dwarf Fountain grass	#1	1m o.c.
Pa	/3	Pennisetum alopecuroides 'Hameln'	uwarr Fountain grass	#1	60cm o.c
Perer	nials				
At	103	Achlys triphylla	Vanilla Leaf	10cm	45cm o.c.
GI	125	Gaura lindheimeri 'Bantam White Improved'	Bee blossom	#1	45cm o.c.
Np	28	Nepeta x faassenii 'Dropmore'	Catmint	#1	60cm o.c.
Sn	37	Salvia x sylvestris 'Caradonna'	Purple Wood Sage	#1	60cm o.c.
Tg	93	Tellima grandiflora	Fringecup	10cm	45cm o.c.
Biosw					
Co	15	Carex obnupta	Slough Sedge	10cm	45cm o.c
lm	15	Iris missouriensis	Western Blue Flag Iris	10 cm	45cm o.c

### PLANTING NOTES

- All landscape installation and maintenance to meet or exceed the current edition of the Canadian Landscape Standards as a minimal acceptable standard.
- Growing medium to meet or exceed the properties outlined in the Canadian Landscape Standard per Section 6 Growing Medium, Table T-6.3.5.3. Properties of Growing Media Level 2 "Groomed" - 2P.
- Growing Medium Depths:
   Tree Planting Areas: 1 cu. m. per tree
   Shrub & Ground Cover Areas: 450mm (18") depth
   Seeded Areas: 150mm (6") depth
- Mulch to be Compost per Section 10 Mulching of the Canadian Landscape Standard. Mulch depth to be 75mm minimum depth pver all tree, shrub, and groundcover planting areas.
- Plant material quality, transport and handling shall comply with the CNLA standards for Nursery Stock.
- All plant material shall match type and species as indicated on the planting plan. Contact the Landscape Architect for approval of substitutions. No substitutions will be accepted without prior written approval of the Landscape Architect.
- Check for loactions of water lines and other underground services prior to digging tree pits. Excavated plant pits shall have positive drainage. Plant pits when fully flooded with water shall drain within one hour after filling.
- No plants requiring pruning or major branches due to disease, damage or poor form will be accepted.
- All tree, shrub, groundcover and lawn areas shall be watered via an underground automatic irrigation system utilizing "Smart" (ET/Weather-based) irrigation control. Irrigation emission devices to be high efficiency low volume rotary nozzles or drip irrigation equipment.

Refer to Sheet L2.01 for Planting Plan North Refer to Sheet L2.02 for Planting Plan South Refer to Sheet L2.03 for Rooftop Planting Plan

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**PLANT LIST & NOTES** 

PROJECT ID 220009

DB CM CB KS

SCALE 1:150

DATE July, 2022

L2.04