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(Formerly BESHARAT FRIARS ARCHITECTS)

06 October 2023

## **DESIGN RATIONALE AND PROPOSED MINOR VARIANCES 2023**

## **ZEN Group Automated Carwash Building,**

3180 North Island highway, Nanaimo, BC

## **Proposed Statistics**

CC3 Commercial Central Zone Zoning

• Site Area 15,539 sf (1,443.61 sm) Building Area 3,899 sf (362.22 sm)

# of storey

 Lot Coverage 28% (Maximum 50%)

2 stalls Parking

## **DESIGN RATIONALE / FORM & CHARACTER**

The 15,539 square feet site is located at the northwest corner of Norwell Drive and Island Highway North and will accommodate a 2-storey automated carwash as per existing CC3 Commercial Centre use zoning. East of Norwell Drive is zoned Corridor and south of Island highway North is zoned Industrial. To the west of the site is an existing Dairy Queen building and to the north and west of the proposed carwash is the Country Club Centre Mall.

The property's previous use was a gas station structure from approximately 1956 to 2014. Soil contamination was monitored and is documented in the environmental report. Existing contamination would allow a building with shallow excavation that is suitable for an automated carwash building making the best use on this visible corner site. Previously a development and building permit was issued for this site in 2022, Zen Group the owner/ operator decided to have the building redesigned



following their new operation, access and internal maneuvering new requirements including removal of the residential unit.

The proposed development is compatible with the existing surrounding commercial and industrial uses with most of the car dealerships in the immediate neighborhood.

In consultation with Ministry of Highway the corner land outside of the property will be heavily landscaped and pedestrian connections improved to enhance the corner experience.

City Planning and transportation asked for a 2.5-meter road widening dedication alongside Norwell Drive. Both two-way vehicular access points off Norwell Drive and Island Highway North are currently used by the existing Dairy Queen building and future carwash.

The two-storey proposed automated carwash building is designed based on Zen Group experience in developing similar projects in the region.

After initial and careful analysis of program and exploration of several site design options including initial consultation with the City Planning Department, the proposed massing is arranged with long transparent elevation of the building facing Norwell Drive and the southeast animating the corner intersection.

Car line up at entry, use of the sheltered pay stations, monitored entry to the carwash tunnel and exiting are important aspects of design for a smooth operation and customer experience.

The project design priorities are summarized below:

- Design for maximum visibility and transparency with strong connectivity to the existing neighborhood and access roads
- Make major contribution to conservation and re-use of water resource.
- Contribute to the existing and future streetscape and public realm.



Proposed massing is juxtaposition of two side by side massing, a dynamic carwash volume and a two-storey utilitarian volume facing the internal portion of the site.

The building structure is exposed on the eastern side holding the sloped roof and exterior glass with stainless steel clamps. The pay station roof is deliberately attached to the building mass and fully articulated with the upper and lower massing.

The carwash building, with an expansive all-glass facade, is fully transparent and energized by the visible active carwash process inside. The transparency and massing of the carwash presents an engaging face of the project to pedestrians, bikers and vehicles passing the site.

The carwash environmental sustainability is summarized below:

- The express carwash has significant water-saving features and is a high volume, automated business that can operate on a near self-serve basis.
- The state-of-the-art car wash provides a more sustainable car washing option in a dedicated facility that uses recycled water, rather than wasting untreated water at individual homes or businesses.
- The carwash building employs state of the art car washing technology that significantly reduces the amount of water used and the levels of contaminates produced, ultimately increasing the environmental sustainability of the project:
- Hand washing of cars uses an average of 150 gallons of water per car, whereas the proposed facility features a recycling system that processes and recycles the wastewater and uses a lot less water per car. The system reduces water consumption and increases environmental sustainability.
- All the water used is recycled through a water reclaim system.
- Most of the water used in the car wash is reclaimed water with only fresh water used during the last rinse to avoid any drying spots. The fresh water then runs into an underground tank and is recycled as reclaimed water, which is used for other washes.
- Computer controlled metering delivers the precise volume of water to ensure optimal cleaning with no waste.



• Engine and brake residue, antifreeze, grease, oil, and other harmful pollutants cling to the surface of the car, particularly its tires, wheels, and fenders. Washing cars at home results in these contaminants and soap chemicals running directly into storm sewers, without treatment, and thus flowing into local streams, rivers and eventually the ocean. In the proposed car-wash facility, oil separators are installed to separate the oil, grease, and other contaminants, which are washed off the vehicles, before they enter the storm drains.

## LANDSCAPE DESIGN RATIONALE & CEPTED: Landscape Architect / ETA

The landscape design of the Zen Group Carwash intends to create a lush and natural landscaped area to balance the utility function of the carwash. In particular, it aims to meet the goals of creating a warm and welcoming site for users and an attractive space at this corner intersection location. The landscape design aims to create an attractive streetscape with planting and trees lining the property edges. The site is layered with planting to provide a dynamic view from the street and intersection of Notre Dame Drive and Laval Crescent, creating a space for the building to sit grounded to the landscape surrounding it.

The plant palette has been selected to emphasize native, low maintenance species, ones that are adapted to Kamloops climate. Rain gardens have been introduced around the site to guide onsite surface drainage, so water tolerant plants such as *Cornus sericea, Yucca filamentosa*, and lower sedums will fill out these areas to thrive both in wet and dry seasons. Roses, grasses, and junipers make up large areas of planting required to fill out the site.

# STORM WATER MANAGEMENT: Civil/Aplin Martin

Stormwater management has been designed using the City of Nanaimo Manual of Engineering Standards and Specification for stormwater detention and stormwater retention requirements. Retention of the first 31mm of rainfall is captured in the



softscape landscaping areas, gravel areas, and a supplemental underground rock pit to meet the required volumes. Detention volumes are calculated per the standards using the modified rationale method and underground storage is implemented by up-sizing pipes and adding a flow control structure. Water quality treatment is obtained by adding a trapping tee in all catch basins and implementing a treatment unit before stormwater exits the private property.

## PROPOSED VARIANCES

We have identified and propose two minor variances for consideration:

## 1 Carwash southeast roof overhang:

The carwash building roof overhang projects in a triangular form on the southeast corner and at its deepest distance is approximately 9.25 feet (2.85 meter) beyond the building setback at the flanking corner.

We request consideration of flanking roof overhang minor variance projection due to the operational requirement of having kiosk staff to be under roof protection during rainy season and southern sun protection during summer sunny period. In addition, assistance of drivers will happen under roof protection.

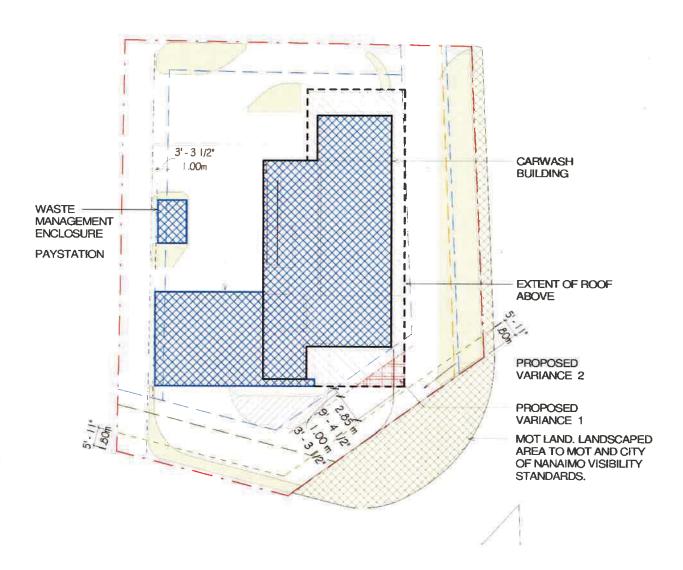
Please note additional corner landscape area beyond the property line on Ministry of Transportation corner property as a result the proposed additional overhang will not have any negative impact.

Note: A projection into yards under 6.5 1 section of the general regulations of City of Nanaimo is limited to 1 meter.



# 2 Southeast corner landscape 1.8-meter landscape buffer:

The southeast and southwest corner at street intersection provides less than 1.8 meter required landscape setback due to required maneuvering surface. The Ministry of Transportation granted approval of a heavy landscape that mitigates this minor variance with major addition of green space.

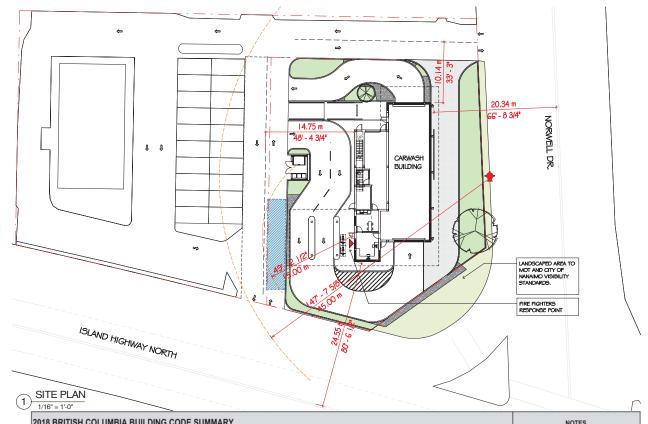


# **SUBJECT PROPERTY MAP**





3180 Island Highway North



2018 BRITISH COLUMBIA BUILD	ING CODE SUMMARY	NOTES
Construction Article	3.2.2.85. Group F, Division 3, up to 2 Storeys	
Building Construction	Combustible construction or noncombustible construction used singly or in combination (Noncombustible proposed)	
Maximum Building Height	Max. 2 storey	
Maximum Building Area	3072 SF/ 285.39 SM	REQUIRES ONGOING CONFIRMATION
Floor Assemblies above Grade	Constructed as fire separations and 45 min fire-resistance rating if of combustible construction	
Floors below Ground	N/A	
Loadbearing Supports above Ground	45 min fire-resistance rating or be of noncombustible construction	
Loadbearing Support below Ground	N/A	
Roof Assemblies	No fire-resistance rating requirement	
Roof Covering	Class A, B, or C roof covering classification	
Sprinkler System	Not required and will not be provided	
Standpipe System	Not required and will not be provided	
Fire Alarm System	Not required and will not be provided	
Emergency Power	30 min duration as per 3.2.7.4. and 3.2.7.8.	
Street Facing	2 Street	

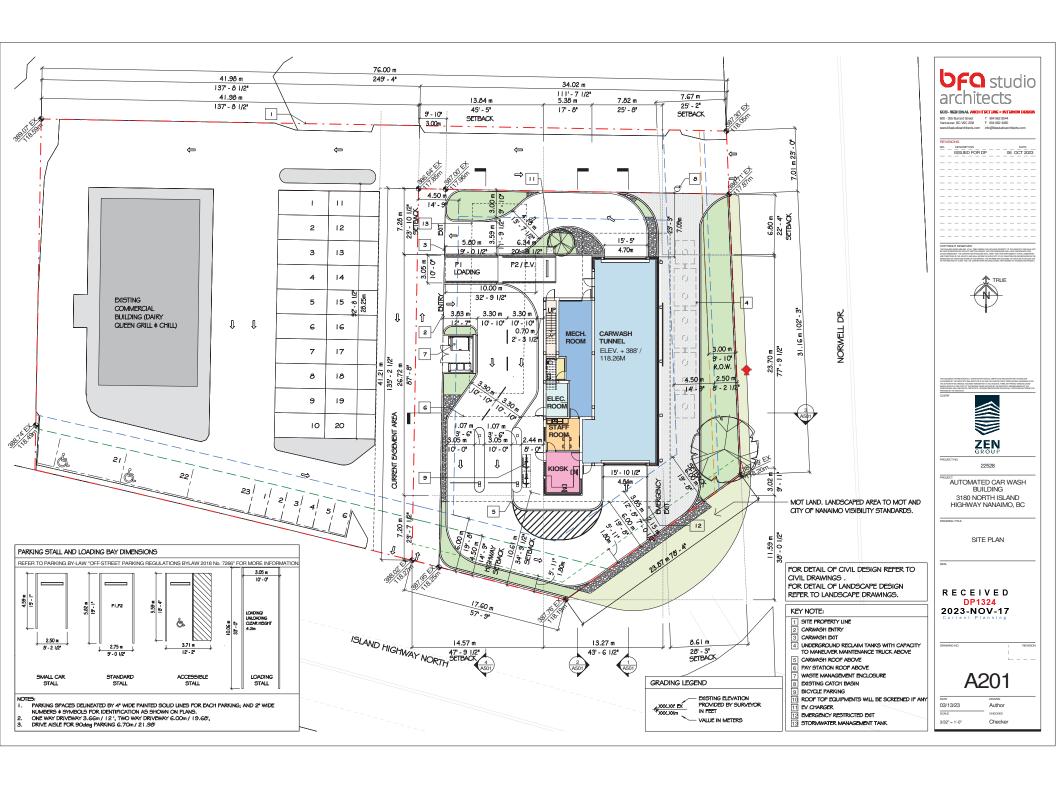
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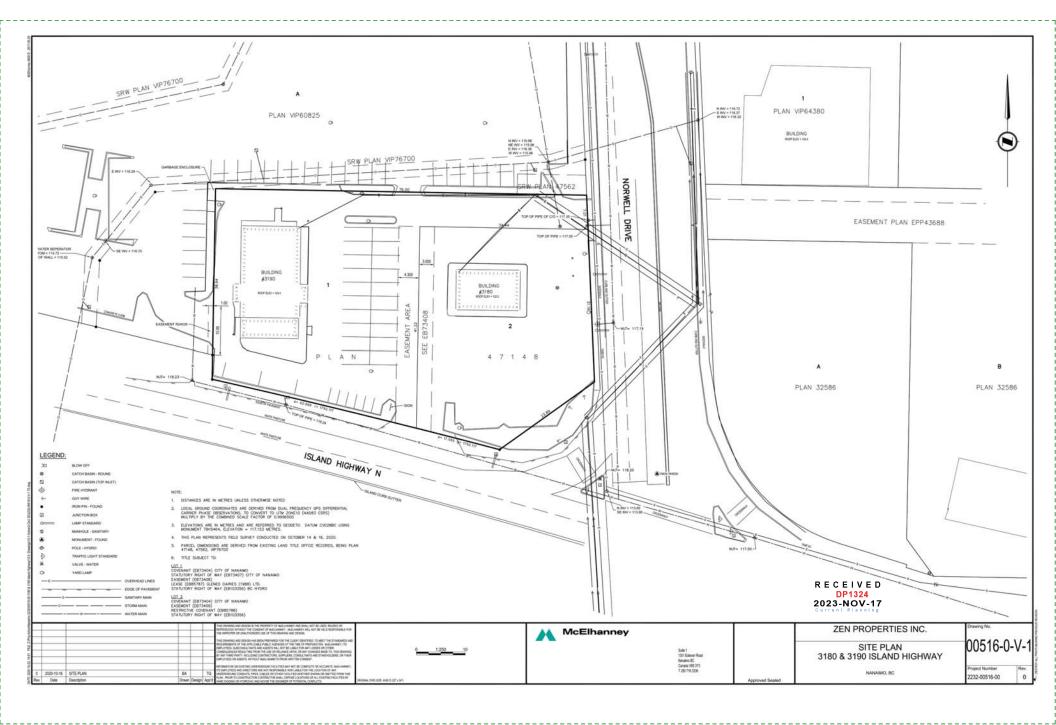
Water Closet Summary (BCBC Section 3.7 I	Health Requirement)						
Occupancy Type Occupant Load		Number of Each	Number of Water	Closets Required	Number of Water	Closets Provided	
Occupancy Type	Occupant Load	Sex	M	F	M	F	
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(a) Occupants in the Carwash building is perr	mitted to be served by a s	single water closet since	e the occupant load i	s not expected to be	more than 10 [Sentend	ce 3.7.2.2.(4)]. One u	niversal washroom is provided.

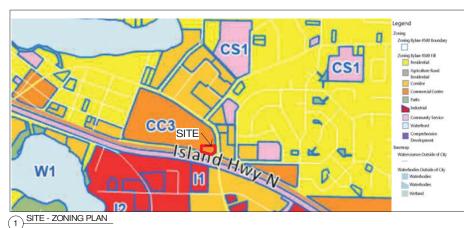


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SITE ZONING PLAN AND CONTEXT

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2 SITE - CONTEXT

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	SOUTHWEST/ISLAND HIGHWAY		57.75	17.60	1					
	WEST		135.25	41.22	1					
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SOUTHWEST -ISLAND HIGHWAY CORNER-FLANKING	19.69	6.00			34.81	10.61				
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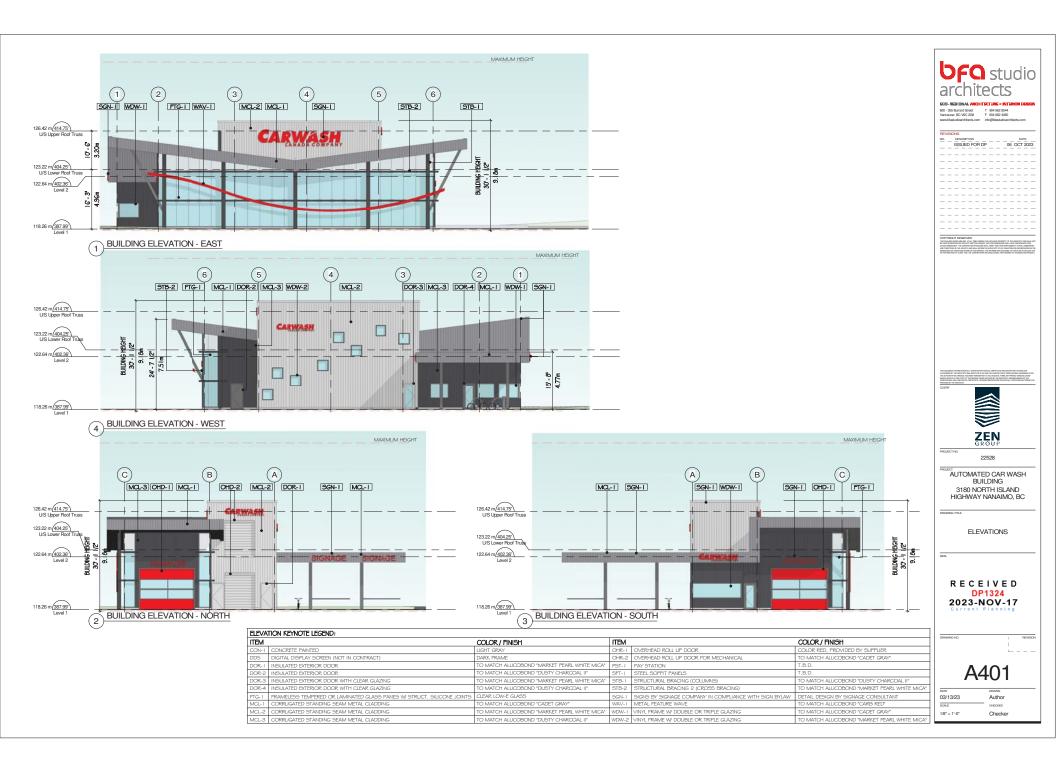
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2 3D VIEW - NORTH-EAST





3 3D VIEW - NORTH-WEST

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PROJECTIVE  22528  PROJECT AUTOMATED CAR V BUILDING 3180 NORTH ISLA HIGHWAY NANAIMO  PROMPING THE  STREET VIEWS  DOWNING NO.  AOOS  AOOS  COMMITTER  COMMI	ND, BC



1. WOOLRIDGE CARWASH AND MINI STORAGE FACILITY, VANCOUVER



3. KING GEORGE CAR WASH & SELF STORAGE FACILITY, SURREY



5. AUTOMATED CARWASH FACILITY, KAMLOOPS



2. BOUNDARY CARWASH & NET ZERO SELF STORAGE FACILITY, VANCOUVER



4. AUTOMATED CARWASH FACILITY, ABBOTSFORD



6. AUTOMATED CARWASH FACILITY, COQUITLAM

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	ZEN	
PROJECT NO.		
	22528	

22528 ROJECT

AUTOMATED CAR WASH BUILDING 3180 NORTH ISLAND HIGHWAY NANAIMO, BC

PRAWING TITLE

PRECEDENT SHEET

WNG NO.

A009

04/03/23 SGALE

Author

		T			I	T	T
ITEM	COLOUR FINISH / IMAGE	SYSTEM	DETAILS	ITEM	COLOUR FINISH / IMAGE	SYSTEM	DETAILS
CON-1			CONCRETE PAINTED COL: LIGHT GRAY	SBT-1			STRUCTURAL BRACING (COLUMNS) COL: PAINTED FINISH TOO MATCH ALUCOBOND "DUSTY CHARCOAL II"
FTG-1	GLASS FRAME		FRAMELESS TEMPERED OR LAMINATED GLASS PLANELS FRAME: CLEAR ANODIZED ALUMINUM GLAZING: CLEAR	SBT-1			STRUCTURAL BRACING (HORIZONTAL)  COL:PAINTED FINISH TO MATCH ALUCOBOND "MARKET PEARL WHITE MICA"
MCL-1			CORRUGATED STANDING SEAM METAL CLADDING COL: TO MATCH ALUCOBOND "CADET GRAY"	WAV-1		T.B.D.	FEATURE WAVE METAL CLADDING PANEL COL: TO MATCH ALUCOBOND "CARB REB"
MCL-2			METAL CLADDING PANEL COL: TO MATCH ALUCOBOND "MARKET PEARL WHITE MICA"	DOR-1		40	INSULATED EXTERIOR DOOR VINYL FRAME: TO MATCH ALUCOBOND "CADET GRAY"
MCL-3			METAL CLADDING PANEL COL: TO MATCH ALUCOBOND "DUSTY CHARCOAL II"	OHR-1		· · · · · · · · · · · · · · · · · · ·	OVERHEAD ROLL UP DOOR AIRLIFT DOORS , INC, XRS OVERHEAD DOOR COL:RED
WDW-1	GLASS FRAME		VINYL FRAME W DOUBLE OR TRIPLE GLAZING FRAME: TO MATCH ALUCOBOND "CADET GRAY" GLASS: CLEAR	OHR-2			OVERHEAD ROLL UP DOOR COL: TO MATCH ALUCOBOND "CADET GRAY"

**bfo** studio architects BCO-REALIDNAL ARCHITECTURE + BITTLE
600 - 355 Burnard Street
Vancouver, BC V6C 208
www.bfastudioarchitects.com info@bfastudioarchi 22528 AUTOMATED CAR WASH BUILDING 3180 NORTH ISLAND HIGHWAY NANAIMO, BC ELEVATIONS - MATERIALS

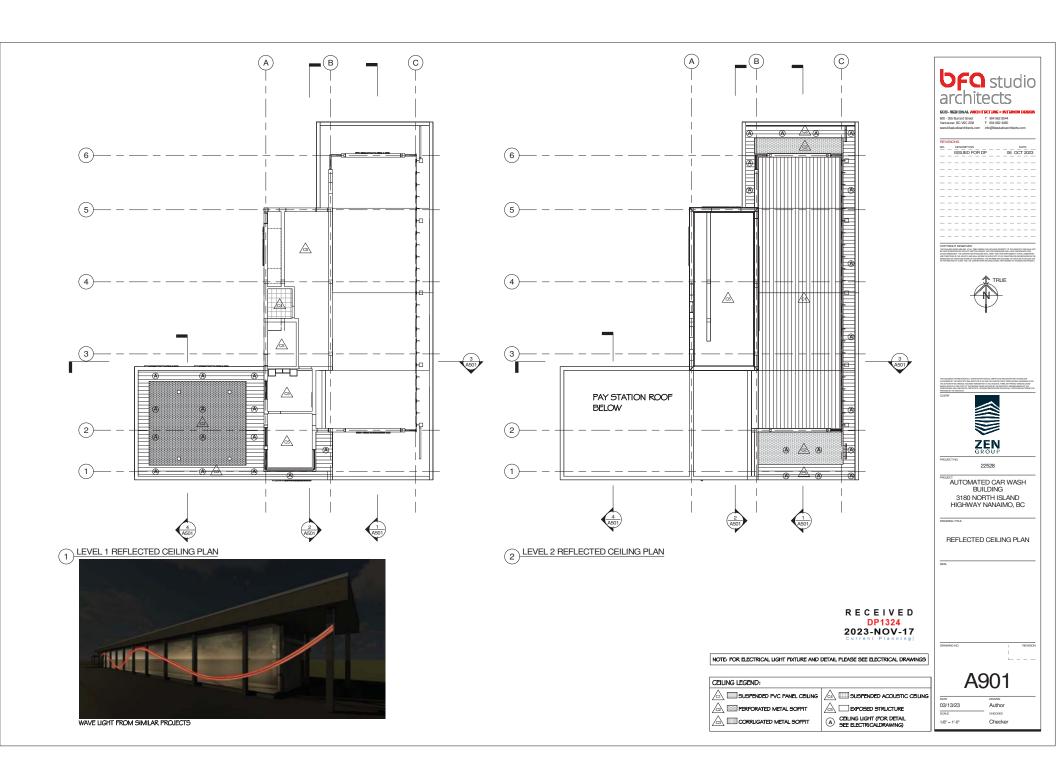
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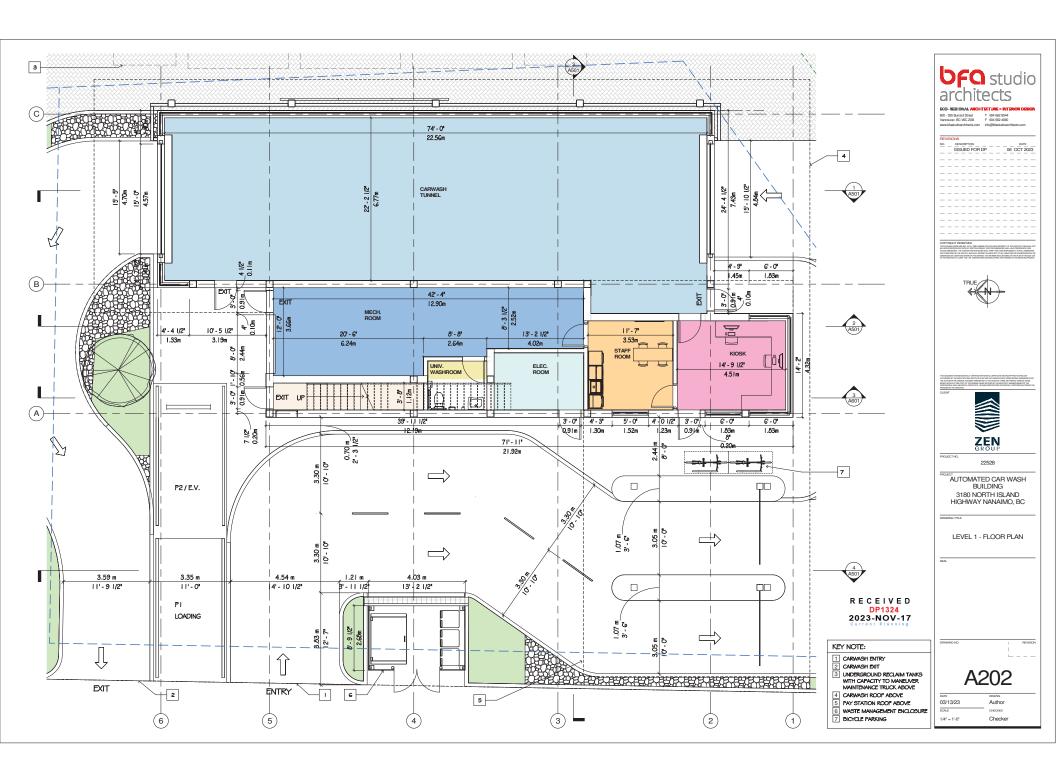
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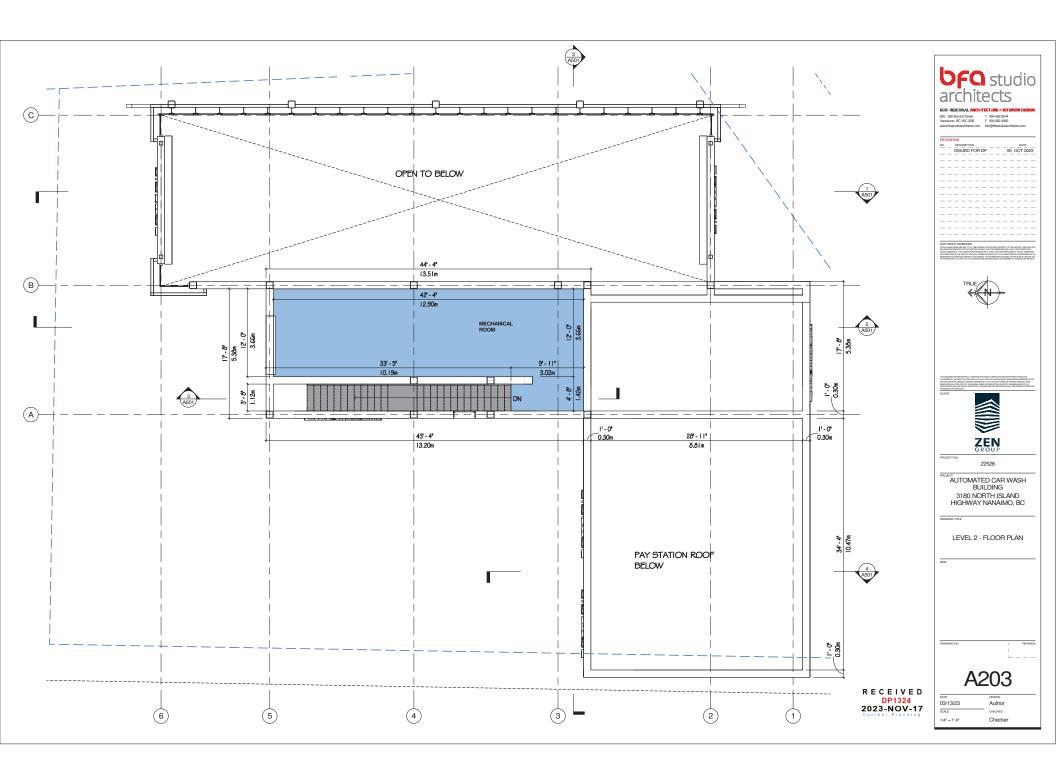
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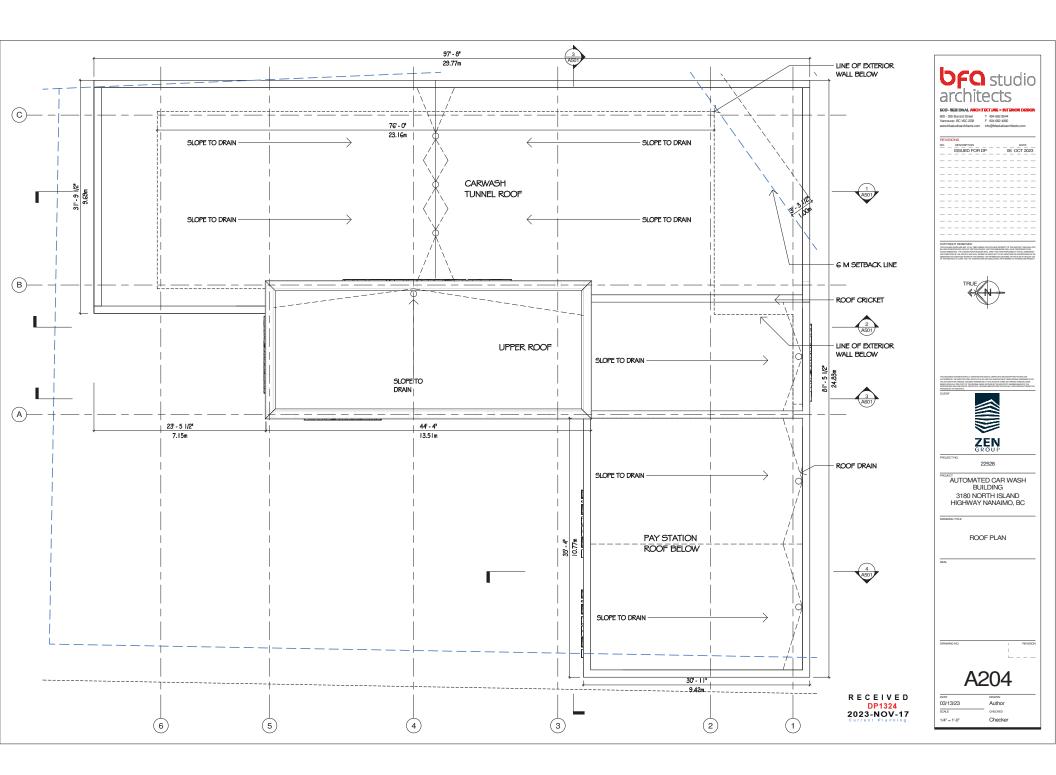
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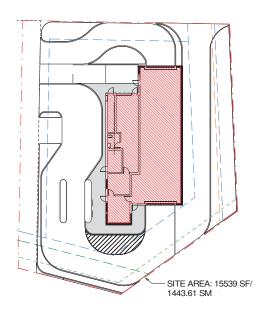
ELEVA	ITION KEYNOTE LEGEND:					DEMAND NO
ITEM		COLOR / FINISH	ITEM		COLOR / FINISH	DRAWING NO.
CON-I	CONCRETE PAINTED	LIGHT GRAY	OHR- I	OVERHEAD ROLL UP DOOR	COLOR RED, PROVIDED BY SUPPLIER	
DD5	DIGITAL DISPLAY SCREEN (NOT IN CONTRACT)	DARK FRAME	OHR-2	OVERHEAD ROLL UP DOOR FOR MECHANICAL	TO MATCH ALUCOBOND "CADET GRAY"	ı
DOR-1	INSULATED EXTERIOR DOOR	TO MATCH ALUCOBOND "MARKET PEARL WHITE MICA"	PST-1	PAY STATION	T.B.D.	ı İ
DOR-2	INSULATED EXTERIOR DOOR	TO MATCH ALUCOBOND "DUSTY CHARCOAL II"	SFT-I	STEEL SOFFIT PANELS	T.B.D.	د ان
DOR-3	INSULATED EXTERIOR DOOR WITH CLEAR GLAZING	TO MATCH ALUCOBOND "MARKET PEARL WHITE MICA"	STB-1	STRUCTURAL BRACING (COLUMNS)	TO MATCH ALUCOBOND "DUSTY CHARCOAL II"	ıl <b>"</b>
DOR-4	INSULATED EXTERIOR DOOR WITH CLEAR GLAZING	TO MATCH ALUCOBOND "DUSTY CHARCOAL II"	STB-2	STRUCTURAL BRACING 2 (CROSS BRACING)	TO MATCH ALUCOBOND "MARKET PEARL WHITE MICA"	DATE
PTG-I	FRAMELESS TEMPERED OR LAMINATED GLASS PANES W/ STRUCT. SILICONE JOINTS	CLEAR LOW-E GLASS	5GN-1	SIGNS BY SIGNAGE COMPANY IN COMPLIANCE WITH SIGN BYLAW	DETAIL DESIGN BY SIGNAGE CONSULTANT	03/13/23
MCL- I	CORRUGATED STANDING SEAM METAL CLADDING	TO MATCH ALUCOBOND "CADET GRAY"	WAV-I	METAL FEATURE WAVE	TO MATCH ALUCOBOND "CARB RED"	SCALE
MCL-2	CORRUGATED STANDING SEAM METAL CLADDING	TO MATCH ALUCOBOND "MARKET PEARL WHITE MICA"	WDW-1	VINYL FRAME W/ DOUBLE OR TRIPLE GLAZING	TO MATCH ALUCOBOND "CADET GRAY"	ıl -
MCL-3	CORRUGATED STANDING SEAM METAL CLADDING	TO MATCH ALUCOBOND "DUSTY CHARGOAL II"	WDW-2	VINYL FRAME W/ DOUBLE OR TRIPLE GLAZING	TO MATCH ALUCOBOND "MARKET PEARL WHITE MICA"	

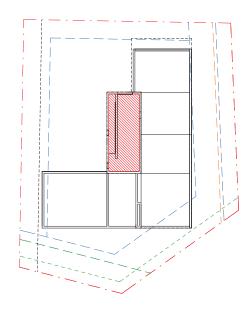


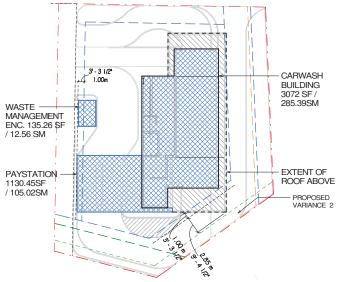












## TOTAL BUILDING COVERAGE 4,338SF / 402.97 SM

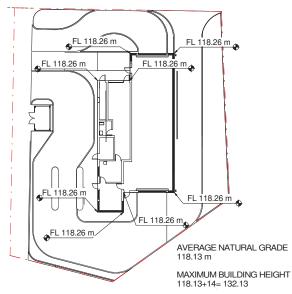
# 1 AREA PLAN LEVEL 1

# 2 AREA PLAN LEVEL 2

I EVELO	FLOOR	AREA		GFA (INT. FACE OF EXT. WALL)				
LEVELS	SF	SM	SF	SM	EXCLUSION (SF)	EXCLUSION (SM)	TOTAL (SF)	TOTAL (SM)
LEVEL 1	3,072	285.39	2,819	261.89				
LEVEL 2	827	76.83	705	65.49				
TOTAL	3,899	362.22	3,524	327.39	99.99	9.29	3424	318.1
PAYSTATION ROOF	1130	105.02						
WASTE MANAGEMENT ENCLOSURE	135.26	12.56						

$$FAR = \frac{GFA}{SITE AREA} = \frac{318.1}{1443.61} = 0.22$$

# 3 BUILDING COVERAGE



4 AVERAGE NATURAL GRADE



03/13/23

1/16" = 1'-0"

Author

Checker



1690 West 2nd Avenue Vancouver . BC . Canada . V6J 1H4

t | 604.683.1456 f | 604.683.1459 w | www.etala.ca

## **ISSUED FOR DP**

October 6, 2023

## **CAR WASH**

for Zen Group

Civic Address: 3180 Island Highway North, Nanaimo

## CONSULTANT TEAM

OWNER:

LANDSCAPE ETA Landscape Architecture ARCHITECT: BFA Studio Architects

CIVIL:

## Sheet Drawing Title Landscape Materials & Grading Plan Landscape Planting Plan Soil Depths & Irrigated Areas Plan Landscape Details & Sections

ALL PLANTS TO BE NURSERY GROWN
ALL PLANT MATERIALS AND LABOUR TO CONFORM
TO THE CURRENT EDITION OF THE CSLA LANDSCAPE STANDARDS.

## ALL PLANT MATERIAL TO BE INSPECTED PRIOR TO DELIVERY ON SITE. CONTRACTOR TO ARRANGE FOR INSPECTION AND MATERIAL TO ASSEMBLED IN ONE LOCATION FOR REVIEW

IMPORTED GROWING MEDIA SHALL BE A SANDY LOAM OR LOAMY SAND TEXTURE (NO LESS THAN 50% SAND BY WEIGHT) CONTAINING 4 AND 15% ORGANINC MATTER (DRY WEIGHT BASIS).

GROWING MEDIA SHALL VIRTUALLY FREE FROM SUBSOIL, WOOD INCLUDING WOODY PLANT PARTS, INVASIVE AND NOXIOUS PLANT AND THEIR REPRODUCTIBLE PARTS, PLANT PATHOGENIC ORGANISMS, ORGANIC OR INORGANIC MATERIALS, TOXINS, STONES OVER 30mm (1.2"), ANY DEBRIS AND FOREIGN OBJECTS.

IMPORTED GROWING MEDIA SHALL CONFORM TO AND BE TREATED AS PER SECTION 6.2.3 TO 6.2.7 INCLUSIVE OF THE CURRENT EDITION CSLA LANDSCAPE STANDARDS.

GROWING MEDIUM SHALL CONFORM TO LEVEL 1 "WELL-GROOMED" AREAS: LOW TRAFFIC LAWN AREAS, TREES AND LARGE SHRUBS (IL IN TABLE T-8.3.5.1 OF THE CURRENT EDITION OF THE CSLA LANDSCAPE STADARDS). IT SHALL POSSESS THE FOLLOWING QUALITIES:

COARSE GRAVEL (LARGER THAN 19mm AND SMALLER THAN 40mm): 0-1%
"ALL GRAVEL (LARGER THAN 2mm AND SMALER THAN 40mm): 0-5%
"SAND (LARGER THAN 0.05mm AND SMALLER

THAN 2mm): 50-70%

\*SILT (LARGER THAN 0.002mm AND SMALLER

THAN 0.05mm): 10-25%

\*CLAY (SMALLER THAN 0.002mm): 0-20%

\*CLAY AND SILT COMBINED: MAXIMUM 25%

Acidity (pH): 6.0-7.0 as per CSLA Standards

**DRAINAGE:** PERCOLATION SHALL BE SUCH THAT NO STANDING WATER IS VISIBLE 60 MINUTES AFTER AT LEAST 10 MINUTES OF MODERATE TO HEAVY RAIN OR IRRIGATION.

MINIMUM SOIL DEPTH TO BE AS PER TABLE T 6.3.5.5 OF THE CURRENT EDITION CSLA LANDSCAPE STANDARDS:

subg	rade where the oil drains rapidly	where the subsoil drai poorly
LARGE TREE	750mm(30")	900mm(35*)
TREES (10m3 PER TREE)	600mm (24")	750mm(30")
LARGE SHRUBS	600mm(24")	500-900mm(20*-36*)
SMALL SHRUBS	450mm(18")	300-500mm(12"-20")
GROUNDCOVERS	300mm(12")	225mm(9")
LAWN-IRRIGATED	150mm(6")	150mm(6*)
LAWN-NOT IRRIGATED	150mm(6")	225mm(9*)

## SOIL DEPTHS WILL BE CHECKED AT TIME OF SUBSTANTIAL COMPLETION REVIEW

SOIL FOR URBAN AGRICULTURE PLOTS IS TO BE URBAN GRO PROVIDED BY VERATEC, OR APPROVED ALTERNATIVE. SOIL FOR URBAN AGRICULTURE AREAS IS TO MEET OR EXCEED THE GUIDELINES FOR COMPOST QUALITY UNDER CANDIDIA COUNCIL OF MINISTERS OF THE ENVIRONMENT (COME).

COMPOST IS TO BE TESTED AND RESULTS SUBMITTED TO CONSULTANT PRIOR TO DELIVERY TO SITE.

BEDS TO HAVE 3" MULCH LAYER (after settling) CONSISTING OF ORGANIC COMPOSTED BARK APPLIED.

PLANTED AREAS TO HAVE PERMANENT HIGH EFFICIENCY IRRIGATION SYSTEM - SHOP DRAWINGS ARE TO BE PREPARED BY AN IABC CERTIFIED DESIGNER AND APPROVED BY LANDSCAPE ARCHITECT.

CONTRACTOR TO PROVIDE MAINTENANCE FOR 1 YEAR FOIL OWING SUBSTANTIAL COMPLETION

CONTRACTOR TO PROVIDE WRITTEN 1 YEAR WARRANTY ON PLANT MATERIAL

CONTRACTOR TO PROVIDE COPY OF SOIL TEST TO LANDSCAPE CONSULTANT 3 WEEKS PRIOR TO DELIVERY ON-SITE. TEST TO BE PERFORMED BY AN INDEPENDENT LAB AND IS TO INCLUDE RECOMMENDATIONS FOR BOTH LAWN AND PLANTING BEDS.

CONSULTANT TO APPROVE SOIL BEFORE INSTALLATION. THIS DOES NOT PRECLUDE THE CONSULTANT FROM PERFORMING AN INDEPENDENT SOIL ANALYSIS AT TIME OF SUBSTANTIAL COMPLETION. CONTRACTOR WILL BE RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF SOIL THAT DOES NOT MEET SPECIFICATIONS AT NO EXTRA COST TO CLIENT.

CONTRACTOR TO PROVIDE WRITTEN 1 YEAR WARRANTY ON SOIL SPECIFICATIONS

AN INDEPENDENT SOIL TEST TO BE PROVIDED 1 WEEK PRIOR TO END OF 1 YEAR WARRANTY PERIOD CONTRACTOR TO PROVIDE SOIL AMMENDMENTS TO BRING SOIL UP TO QUALITY RECOMMENDED IN SOILS REPORT

EXAMINE EXISTING SUBGRADE CONDITIONS AND SIGNIFY ACCEPTANCE IN WRITING TO THE CONSULTANT.

ASCERTAIN THE SIZE AND LOCATION OF ALL EXISTING SERVICES AND SUBGRADES PRIOR TO THE

IMMEDIATELY REPAIR DAMAGE RESULTING FROM FAILURE TO EXERCISE SUCH PRECAUTIONS AT NO COST TO THE OWNER.

ALL PRUNING TO BE IN ACCORDANCE WITH THE CSLA LANDSCAPE STANDARDS CURRENT EDITION.

ALL SOFTSCAPE AREAS TO INCLUDE MIN. 75MM GRAVEL DRAINAGE LAYERS IN ADDITION TO INDICATED SOIL DEPTH.

PLANT COUNTS
IN THE CASE OF ANY DISCREPANCY BETWEEN PLANT COUNTS ON PLANT LIST AND PLANT SYMBOL'S ON DRAWING. THE DRAWINGS TAKES PRECEDENT. THE CONTRACTOR IS TO VERIFY ALL PLANT COUNTS AND NOTIFY CONSULTANT OF ANY DISCREPANCY.

BIRD FRIENDLY PLANTING
PLANTS THAT ENABLE BIRD-FRIENDLY HABITAT CONSERVATION AND PROMOTION HAVE BEEN
SELECTED AND CAN BE FOUND THROUGHOUT THE LANDSCAPE. PLANTING IS GROUPED IN
SELECTED AND CAN BE FOUND THROUGHOUT THE LANDSCAPE. PLANTING IS GROUPED IN
THE LOBAL ENVIRONMENTAL CONDITIONS FOR BIRDS. THESE LAYERS WILL BE WARED WITH A
DURBISTY OF TEXTURES AND DENSITIES SHAT ATTRACTS AND PROTECTS MAY BIRD SPECIES.
ABILITY TO PROVIDE YEAR-ROUND FOOD FOR BIRDS AND/OR YEAR-ROUND NESTING.

ABILITY TO PROVIDE YEAR-ROUND FOOD FOR BIRDS AND/OR YEAR-ROUND NESTING.

GENERAL MOTES

1. DO NOT SCALE DIRECTLY FROM DRAWINGS.
2. WHERE PLANS AND SEED/FIGATIONS ARE FOUND TO BE IN CONFLICT, OR WHERE WARIOUS TIMES OF WORKER SEEN TO BE IN CONFLICT, NOTIFY THE CONSULTANT IN WRITING THE CONSULTANT IN WRITING THE CONSULTANT IN WRITING THE CONSULTANT IN WRITING THE CONTRACTOR IS REQUIRED TO INVESTIGATE AND VERIFY THE ALIGNMENT AND LOCATION OF ALL EXISTING LANDSCAPE FEATURES ON SITE PROPINT OF ALL EXISTING LANDSCAPE FEATURES ON SITE PROPINT OF ALTHOUGH THE CONTRACTOR SHOULD PROVIDE SHOP DRAWINGS FOR REVIEW PRIOR TO CAMBIENCHEM TO LANDSCAPE WORKS, MOCK UPS MAY BE REQUIRED AS NOTED REQUIRED.

COMMENCEMENT OF LANDSCAPE WORKS. MOCK UPS MAY BE REQUIRED AS NOTED/REQUESTED 5.DIMENSIONS ON THIS DRAWING ARE IN MM, UNLESS OTHERWISE STATED AS REQUIRED BY THE

T.

HESE DRAWINGS SHOULD BE READ IN CONJUNCTION WITH CORRESPONDING ARCHITECTURE

CIVIL ENGINEER'S DRAWINGS. THE TOTAL ENGINEERS DRAWNES.

TO THE TOTAL ENGINEERS CHANNES.

TO THE TOTAL TOTAL THE 
TEST IS TO BE WITHIN S WEEKS OF THE DELIVERY TO SITE.

PLANTING NOTES. REFER TO QUIRREN IN OTS LIST.

1. THE CONTRACTOR SHALL INSTALL IREE PROTECTION FENCE AS INDICATED ON THE DRAWINGS OF ARBORIST REPORT IN COMMINGE WITH ALL MUNICIPATION PROFESSIONAL REQUIREMENTS.

3. DO NOT STORE CONSTRUCTION MATERIALS, DEBRIS, EXCANATED MATERIAL OR EQUIPMENT WITHIN THEE PROTECTION ZOOK.

3. DO NOT STORE CONSTRUCTION MATERIALS, DEBRIS, EXCANATED MATERIAL OR EQUIPMENT WITHIN THE PROTECTION ZOOK.

BEYOND THE DRIPLINE.

EXPACT LOCATIONS OF PROPOSED PLANT MATERIALS SHALL BE FLAGGED STAKED AND EXPACT LOCATIONS OF PROPOSED PLANT MATERIALS SHALL BE FLAGGED STAKED AND EXPACT LOCATIONS OF PROPOSED PLANT MATERIALS SHALL BE FLAGGED STAKED AND LIBERATION THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO ADJUST FLANTS ON SITE.

LANDSCAPE ARCHITECT RESERVES THE RIGHT TO DELECT INSUITIALE MATERIAL DELIVERED THE CONTRACTOR SHALL OBTAIN AN AGRONOMIC SOIL ANALYSIS REPORT, WHICH TESTS THE SOIL GRAVE BY AN CERTIFIED ZOOK INTRINSIC TO STATE OF THE PROPERTY OF THE

ACPP. 8. EXCESS SOIL FROM LANDSCAPE GRADING IS TO BE REMOVED AND DISPOSED OF OFFSITE BY

THE CONTRACTOR IN A LOCATION APPROVED BY THE DEPARTMENTAL REPRESENTATIVE. 9.REFER TO PLANT SCHEDULE FOR THE LIST OF SPECIES, INCLUDING SIZE AND FORM AND OTHER SPECIFIED INFO.

10.CONTRACTOR TO OBTAIN APPROVAL OF LANDSCAPE ARCHITECT FOR ANY SUBSTITUTIONS OF PLANT SPECIFED SIZES.

PLANT SPECIES OR SIZES. I1 ALL TREES MUST BE GUYED OR STAKED AS PER DETAILS AND SPECIFICATIONS. 12 THE CONTRACTOR SHALL PROVIDE ROOT BARRIERS FOR ALL TREES LOCATED WITHIN TWO

12.THE CONTRACTOR SHALL PROVIDE ROOT BARRIERS FOR ALL TREES LOCATED WITHIN TWO (2.0) METERS OF PANION GO NUDREGROUND UTLITES. 13.THE CONTRACTOR SHALL MANUALLY IRRIGATE OR ACTIVITE IRRIGATION SYSTEMS (1.5) THE CONTRACTOR SHALL MANUALLY IRRIGATE OR ACTIVITE IRRIGATION SYSTEMS (1.5) ACTIVITY OF ACTIVITY OF ACTIVITY OF THE CONTRACTOR OF ACTIVITY OF ACT

REQUIREMENTS.

16. A SHOP DRAWING IN DICATING THE SOIL DEPTH TO BE PROVIDED FOR THE LANDSCAPE REVIEW PRIOR TO INSTALLATION.

16. LIGHT-WEIGHT-BLOWN-IN SOIL WILL NOT BE ACCEPTED UNLESS IT IS REQUIRED BY STRUCTURAL ENGINEER.

17. A LANDSCAPE ARCHITECT SHALL BE ON SITE AT SOIL DELIVERY DATE.

17. ALMOSCAPE ARCHITECT SHALL BE ON SITE AT SOL DELIVERY DATE.

HARD LANDSCAPE & FURNITURE NOTES

1. PROVIDE EXPANSION JOINTS ALIGNED WITH PROPOSED PAVING PATTERN AND PAVING
MODULES THE SPRICING OF EXPANSION JOINTS OF STRUCTURAL BEGINNERS RECOMMENDATION.

APPROXIMATE AND MUST BE APPROVED ON SITE BY THE LANDSCAPE ARCHITECT BEFORE
1. PROVIDENCE AND MUST BE APPROVED ON SITE BY THE LANDSCAPE ARCHITECT BEFORE
1. PROVINCE AND MUST BE APPROVED ON SITE BY THE LANDSCAPE ARCHITECT BEFORE
1. PROVINCE AND ARCHITECT AND ARCHITECTS APPROVING FOR ALL
1. HARDSCAPE MATERIAL PRIVING. CLADDING AND CAPPING SHOWING FOR AND SITE BY
1. PROVINCE AND ARCHITECTS APPROVING AND CAPPING SHOWING AND APPROVING 
SITE LAYOUT & GRADING NOTES

1.ALL PROPOSED DIMENSIONS SHALL BE VERIFIED ON SITE BEFORE PROCEEDING WITH CONSTRUCTION.

ANS TRUCTION.
SITE LAYOUT DIMENSIONS ARE IN M. UNLESS OTHERWISE INDICATED.
ALL PROPOSED LEVELS SHALL BE VERIFIED ON SITE BEFORE PROCEEDING WITH

SALL PROCESSOR

CONSTRUCTION.

4.STAIRS NUMBERS AND RISERS HEIGHT SHOULD BE VERIFIED ON SITE AND ADJUSTED AS SEEN NFCFESARY AND AS APPROVED BY ENGINEER. NECESSARY AND AS APPROVED BY ENGINEER.
SCONTRACTOR TO CROSS CHECK ALL EXTERNAL WORKS LEVELS WITH EXISTING BUILDINGS. ANY DISCREPANCIES TO BE SUBMITTED FOR THE LANDSCAPE ARCHITECT'S FEEDBACK.
BOIMENSIONS TAKE PRECEDENCE OVER SCALE SHOWN ON DRAWINGS.
7-FOR LAYING OF ROADS AND CAR PARKING AND ASSOCIATED DRAINAGE REFER TO ENGINEER'S DRAWINGS.

DRAWINGS AND SPECIFICATIONS.

8. THE FINISH GRADING OF PLANTING AREAS SHALL BE 50MM BELOW ADJACENT CURB OR PAVIENNY.

IRRIGATION NOTES

1 IRRIGATION TO BE PROVIDED FOR ALL SOFT LANDSCAPE AREAS SHOWN ON THE DRAWING, BY IRRIGATION NOTES — BOYOUDED FOR ALL SOFT LANDSCAPE AREAS SHOWN ON THE DRAWING, BY LANDSCAPE CONTRACTORY.

2. IRRIGATED AREAS TO BE INSTALLED AS A DESIGN BUILD RIRIGATION SYSTEM FROM THE STUB AND A SHARP AND A S

LANDSCAPE LIGHTING NOTES

1 ALL LIGHTING POINTS SHOWN ON LANDSCAPE PLANS ARE FOR REFERENCE ONLY. FOR ALL
LIGHTING PIXTURES AND TYPES, REFER TO ELECTRICAL DRAWINGS AND SPECIFICATIONS.
2 CONTRACTOR TO SUBBIT SAMPLES OF ALL LIGHT FIXTURES WITH REFERENCE SPECS AND
POITOMETRICS TO THE LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION ON SITE.
3.FOR STREET LIGHTING LOCATIONS AND TYPES REFER TO CIVIL DRAWINGS AND

IFICATIONS. HTING SPECS TO BE COORDINATED AND REVIEWED WITH ELECTRICAL PRIOR TO CONSTRUCTION.

STREET TREES AND FURNISHINGS TO BE LOCATED AT ACCEPTABLE OFFSITE- REFER TO LAYOUT DRAWINGS AND MUNICIPAL STANDARDS.



Car Wash

3180 Island Highway North

Drawing Title

**Cover Sheet** RECEIVED DP1324 2023-NOV-17

DT	L0.0
Reviewed By	Drawing No.
Drawn By	Scale
KD	N/A
Project Manager	Project ID
KD	22318



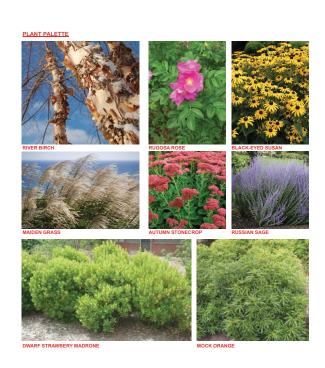
ATERIALS AND FURNISHINGS

 Detail Description
 SIZE
 COLOUR
 MATERIAL
 MODEL
 MANUFACTURER DY MOTES

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 Mean
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 SIZE
 COLOUR
 PATTERN
 MODEL
 MANUFACTURER DY MOTES

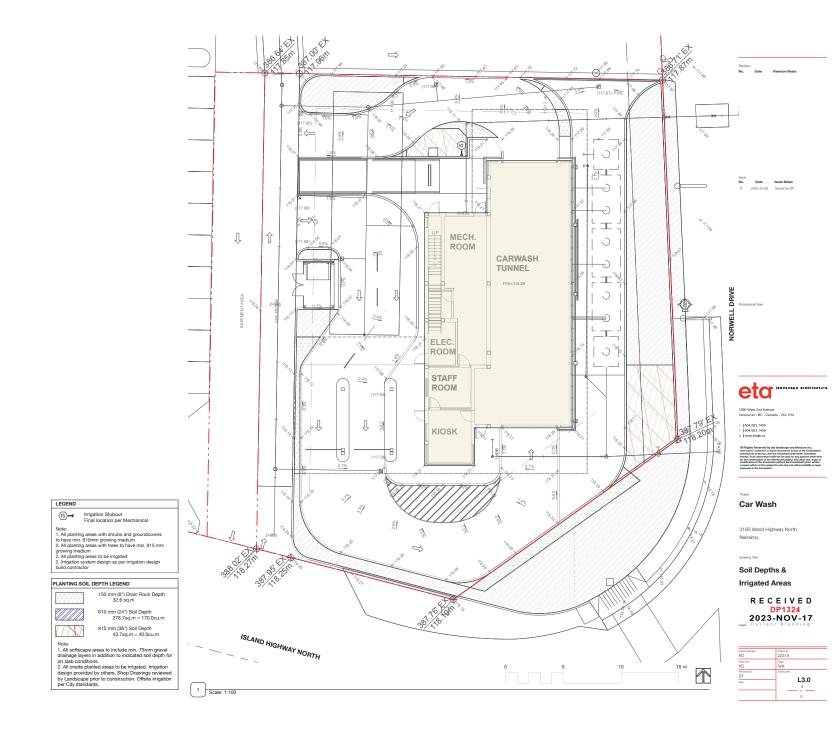
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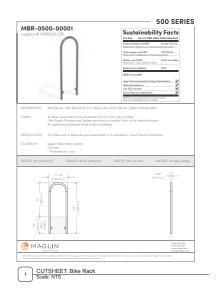


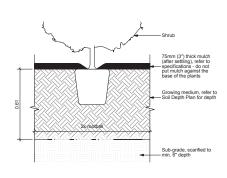
ID	QTY	LATIN NAME	COMMON NAME	SPACING	SIZE	NOTES	ATTRIBUTES
TREES							
Bnh	1	Betulus nigra 'Heritage'	heritage river birch	as shown	6cm cal/B&B	multistem	
Pte	1	Populus tremula 'Erecta'	Swedish columnar aspen	as shown	6cm cal/B&B	2m standard	N
SHRUE	SS / GR	DUNDCOVERS / PERENNIALS		_			
Auc	22	Arbutus unedo 'Compacta'	dwarf strawberry madrone	1.37	#10 cont.	full/ bushy plants	E, B, P, Ed, W
Cta	28	Choisya x dewitteana 'Aztec Pearl'	Aztec Pearl mock orange	1.07	#5 cont.	full/ bushy plants	E, P
Lo	284	Lonicera pileata	box leaf honeysuckle		#2 cont.	full/ bushy plants	E, B, P
Msq	39	Miscanthus sinensis 'Gracillimus'	maiden grass		#5 cont.	full/ bushy plants	B. W
РЫ	51	Perovskia 'Blue Spire'	Russian sage		#2 cont.	full/ bushy plants	Р
Rfg	41	Rudbeckia fulgida 'Goldsturm'	black-eyed Susan		#1 cont.	full/ bushy plants	B, P
Br	33	Rosa rugosa	rugosa rose		#3 cont.	full/ bushy plants	B, P
Saj	580	Sedum 'Autumn Joy'	autumn stonecrop	0.46	#1 cont.	full/ bushy plants	P. W
	0						
TREAT!	MENT IN PRECEI		BETWEEN THE PLANT LIST A	ND THE PLA	NTING PLAN,	THE PLANTING PL	
		EA TO INCLUDE BRITISH COLUMBI	IA WASHINGTON AND ORFI	SON			

Outline of canopy abo Û MECH. Permeable pavers - M2 ROOM CARWASH TUNNEL T. FFE=118.26 ROPedestrian concrete as per Civil 2.4% STAFF ROOM eta Bike racks x 2 (4 spaces) Û KIOSK 0.1% Car Wash Large shrubs to block headlights 3180 Island Highway North Landscape Planting Plan RECEIVED DP1324 2023-NOV-17 ISLAND HIGHWAY NORTH 15 m L2.0

 $\Rightarrow$ 

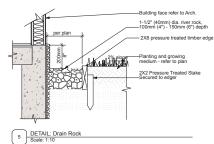


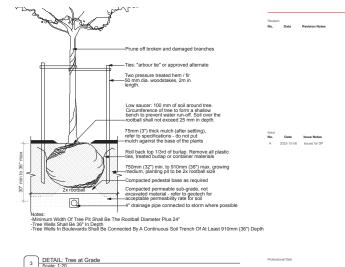


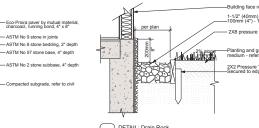




Note: Suggested build-up shown. Refer to Manufacturer & Civil for permeable paving build-up details.









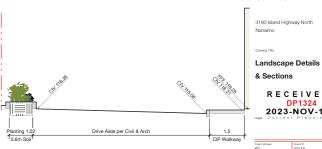
RECEIVED DP1324 2023-NOV-17

L4.0

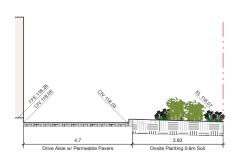
eta landsoape architecture

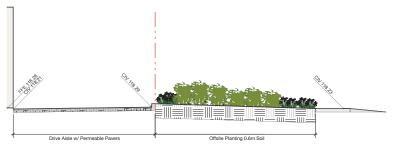


Nanaimo







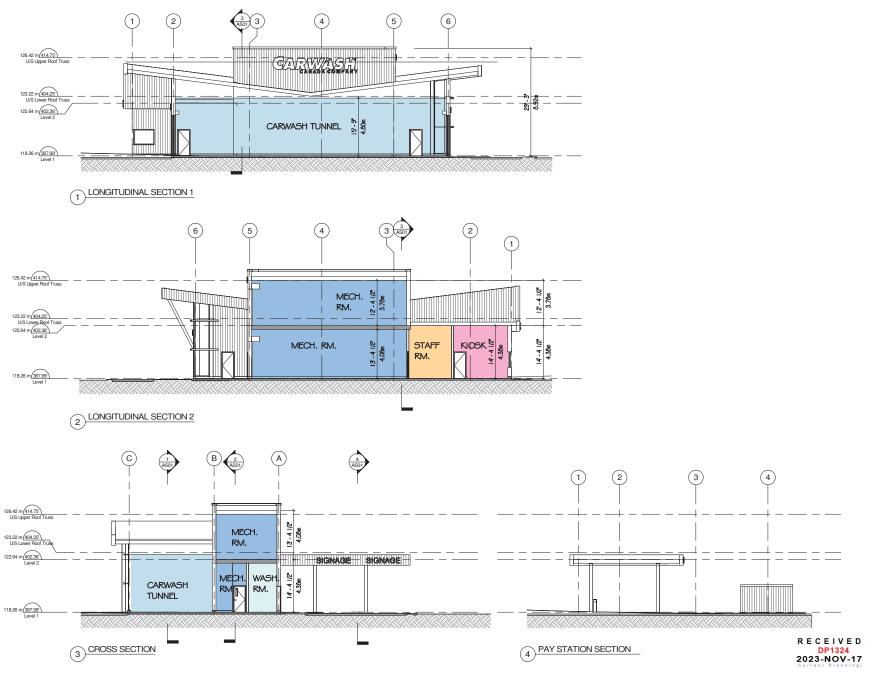


4 DETAIL: Permeable Pavers Scale: 1:10

7 SECTION: Offsite Planting

6 SECTION: East PL Scale: 1:50

8 SECTION: South PL Scale: 1:50





# **AERIAL PHOTO**

