



## CORPORATION OF THE TOWNSHIP OF ESQUIMALT

### DESIGN REVIEW COMMITTEE AGENDA

**SPECIAL MEETING**  
**THURSDAY, FEBRUARY 16, 2017 3:00 P.M.**  
**ESQUIMALT COUNCIL CHAMBERS**

**MEMBERS:** Roger Wheelock (Chair) Wendy Kay  
Ally Dewji Richard Iredale  
Paul De Greeff Jill Singleton  
Robert Schindelka

**RESOURCE MEMBER:** Cst. Franco Bruschetta [Non-Voting]

**COUNCIL LIAISON:** Councillor Beth Burton-Krahn  
Councillor Olga Liberchuk

**STAFF LIAISON:** Bill Brown, Director of Development Services

**SECRETARY:** Pearl Barnard

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- I. CALL TO ORDER
- II. LATE ITEMS
- III. ADOPTION OF AGENDA
- IV. STAFF REPORT

**DEVELOPMENT PERMIT APPLICATION**  
**“REVIEW OF DESIGN REVISIONS FOR THE CORE AREA**  
**WASTEWATER TREATMENT PLANT AT MCLOUGHLIN POINT”**  
337 Victoria View Road  
Lot 1; Section 11; Plan EPP36468

**PURPOSE OF APPLICATION:**

The purpose of this application is to ensure that the applicant's intentions are consistent with the Zoning Bylaw and the design guidelines for Development Permit Area No. 3 “Industrial” including the May 2013 Guidelines (Schedule “A” of this report) that specifically apply to this project. The comments of the Design Review Committee are invaluable in helping staff in reviewing the application and Council in their decision making process vis a vis the application.

**RECOMMENDATION:**

The Esquimalt Design Review Committee recommends that the development permit application for the Core Area Waste Water Treatment Plant be forwarded to Council with a recommendation for either:

1. **Approval including reasons for the recommendation.**
2. **Approval subject to specific conditions and including reasons for the recommendation.**
3. **That it be returned to the Design Review Committee for further review.**

**V. STAFF LIAISON STATUS REPORT**

**VI. NEW BUSINESS**

**VII. NEXT REGULAR MEETING**  
March 8, 2017

**VIII. ADJOURNMENT**



# CORPORATION OF THE TOWNSHIP OF ESQUIMALT

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Municipal Hall, 1229 Esquimalt Road, Esquimalt, B.C. V9A 3P1  
Telephone (250) 414-7100 Fax (250) 414-7111

**DRC Meeting: February 16, 2017**

## STAFF REPORT

**DATE:** February 16, 2017

**TO:** Chair and Members of the Design Review Committee

**FROM:** Bill Brown, Director of Development Services

**SUBJECT: DEVELOPMENT PERMIT APPLICATION**  
**“REVIEW OF DESIGN REVISIONS FOR THE CORE AREA**  
**WASTEWATER TREATMENT PLANT AT MCLOUGHLIN POINT”**  
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**Lot 1; Section 11; Plan EPP36468**

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## RECOMMENDATION:

The Esquimalt Design Review Committee recommends that the development permit application for the Core Area Waste Water Treatment Plant be forwarded to Council with a recommendation for either:

1. **Approval including reasons for the recommendation.**
2. **Approval subject to specific conditions and including reasons for the recommendation.**
3. **That it be returned to the Design Review Committee for further review.**

## BACKGROUND:

### **Purpose of the Application**

The purpose of this application is to ensure that the applicant’s intentions are consistent with the Zoning Bylaw and the design guidelines for Development Permit Area No. 3 “Industrial” including the May 2013 Guidelines (Schedule “A” of this report) that specifically apply to this project. The comments of the Design Review Committee are invaluable in helping staff in reviewing the application and Council in their decision making process vis a vis the application.

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## Context

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The McLoughlin Point site is a 14,213 m<sup>2</sup> parcel situated on the west side of the entrance to Victoria Harbour. Because of its prominent location, it is imperative that the plant exhibit exemplary design. The Design Guidelines state that the development, “Respect the site as a gateway location.” Approximately 240 cruise ships carrying over 500,000 passengers are scheduled pass by the plant on their way to dock at Ogden Point in 2017. It is crucial that these visitors get a good first impression of Esquimalt. Also, the plant will lie in one of the float plane flight paths to the harbor. In addition to the need to ensure that the design of the plant reflects its prominent location, the design also needs to respond to the fact that it is located near one of the most seismically active areas in Canada and, given its proximity to the shore, subject to potential Tsunamis.

**Applicant/Owner:** Capital Regional District

**Architect:** HDR|CEI Architecture

**Property Size:** Metric: 14,213 m<sup>2</sup>

**Existing Land Uses:** Vacant

**Surrounding Land Uses:**

North: CFB Esquimalt.

South: Strait of Juan de Fuca.

West: CFB Esquimalt (low density residential)

East: Entrance to Victoria Harbour

**Existing Zoning:** McLoughlin Point Special Use [I-3] and Marine Navigation [M-4].

**Existing OCP Designation:** Industrial

**Existing Development Permit Area:** No. 3 Industrial

## Design Overview

The Design Review Committee first reviewed the Development Permit application for the proposed Core Area Wastewater Treatment Plant at their January 11, 2017 meeting. At that time a number of issues were identified and the applicant was asked to consider the concerns of the Committee and return with a design that addressed the Committee’s concerns. The Design Review Committee met again on February 9, 2017 to review the revised design. At that time the Design Review Committee identified three main areas of concern:

<b>DRC Concern</b>	<b>Applicant's Response</b>
Use board form concrete on the façade of the tertiary treatment portion of the building so that it blends into the rocky coast environment better;	The drawings still indicate the use of precast concrete panels, however, they are less "angular" than the ones previously proposed. The stained concrete has also been removed from the staircase enclosure on top of this portion of the building.
Explore architectural elements such as shape to help harmonize the operations and maintenance part of the building with the plant part of the building;	From the east elevation, the southern ends of the upper portions of the building have been set at an angle that reflects the angles on the lower portions of the maintenance and operations direction of the building. This is in response to the suggestion by the Design Review Committee that "shape" be considered as a possible architectural element to introduce harmony between different portions of the building.
Explore the option of adding green roof over the plant portion of the building.	It appears as though the area of green roof has been reduced.

Staff have reviewed the latest design and wish to have the Design Review Committee comment specifically on the following:

- 1) South elevation: The south end of the maintenance and operations portion of the building has been changed so that the building and fenestration has become rectilinear in order to match the rectilinear ends of the upper portions of the treatment plant portion of the building. Staff are concerned that, compared to the previous design, this is treatment may be less attractive. The Design Guidelines state that any development must, "Respect the site as a gateway location."
- 2) Staff note that extensive areas of "metal panel cladding" are used. Section 5 (a) of the May 2013 Design Guidelines states, "Incorporate designs that, while respecting the site, ensure the highest standards of materials and workmanship, and are aesthetically pleasing". In addition, the Guidelines state, "Design aesthetics should be optimized with the use of appropriate, high quality materials." Does the Design Review Committee believe that "metal panel cladding" meets the intent of the design guidelines?

## Alternatives

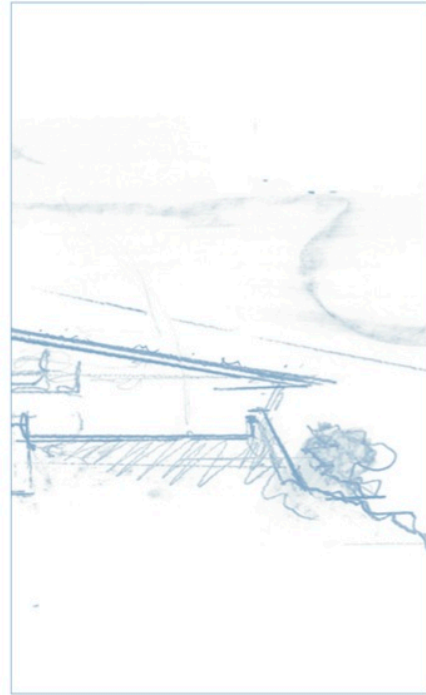
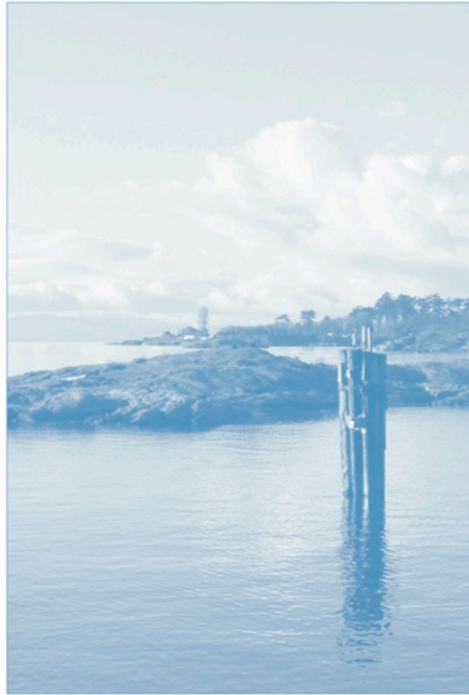
1. Forward the development permit application to Council with a **recommendation of approval including reasons for the recommendation.**
2. Forward the development permit application Council with a **recommendation of approval including specific conditions and including reasons for the recommendation.**
3. Forward the development permit application to Council with a **recommendation that it be returned to the Design Review Committee** for further review.

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Bill Brown  
Director of Development Services

# Design

# Guidelines



## REVISED

# McLoughlin Point Wastewater Treatment Plant

Prepared for the  
Capital Regional District

May 2013





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## Purpose

Because the Township of Esquimalt’s *Official Community Plan* designates the site of the McLoughlin Point wastewater treatment facility as a *Development Permit Area* (in order to address *building form and character* in future development of the land), the purpose of these Design Guidelines is to provide the owner (the CRD), the Township of Esquimalt, and the successful project construction proponent with key design parameters for the facility and the site.

Since the procurement method for this project is *design-build*, the final building design will be prepared by the project proponent. The guidelines introduce a degree of certainty, and understanding over design objectives and expectations regarding the completed design. Recognizing the necessary functional workings of the facility, these guidelines are intended to inform and to guide, but not restrain imagination or appropriate design solutions.

At a later date, the project proponent will submit plans for a Development Permit to the Township of Esquimalt once a specific design solution has been reached.

### VISION STATEMENT

*A design that reflects enduring and sustainable practices, and meets functional needs while being respectful of the prominent setting.*

## Guiding Principles

The process for developing the guiding design principles considered input from a workshop and open house attended by architects, landscape architects, Core Area Liquid Waste Management Committee representatives, and the public. These principles, or perhaps more appropriately *design values*, provide *qualitative performance statements* that shape both the intentions of the core area wastewater treatment system, and the specific guidelines for the McLoughlin Point wastewater treatment facility.

### 1. SUSTAINABILITY

- a) The treatment system will support environmental, social and economic sustainability, and be considered part of CRD climate action initiatives.
- b) Wastewater should be treated as a resource and, wherever possible and practical, provide opportunities for resource recovery and reuse.
- c) The McLoughlin Point facility should meet, or exceed the CRD’s and the Township of Esquimalt’s policies on sustainability and building excellence.

### 2. RESPECT FOR THE SITE

- a) Respect the site as a gateway location.
- b) Respect the natural shoreline.
- c) Respect the site context, and respond to the site and its surroundings.



### 3. PLAN FOR THE FUTURE

- a) Acknowledge and plan for major tsunami events, climate warming effects, and post-disaster resiliency.
- b) Incorporate durable, long-lasting, and timeless materials and design strategies.

### 4. LIVABILITY

- a) Provide a design solution that meets, or exceeds, Township of Esquimalt and City of Victoria noise by-law requirements.
- b) Provide a design solution that restricts odours to a maximum of five (5) odour units, or less (not detectable by humans).
- c) Respect view impacts from all sides, and from above.

### 5. SENSE OF PRIDE

- a) Incorporate designs that, while respecting the site, ensure the highest standards of materials and workmanship, and are aesthetically pleasing.
- b) Incorporate public art into the design.



*View from Ogden Point*

## Design Guidelines

### SUSTAINABILITY STANDARDS

Treating its wastewater should be viewed as an element of the region’s long-term sustainability objectives. Design considerations to support environmental, social, and economic sustainability include:

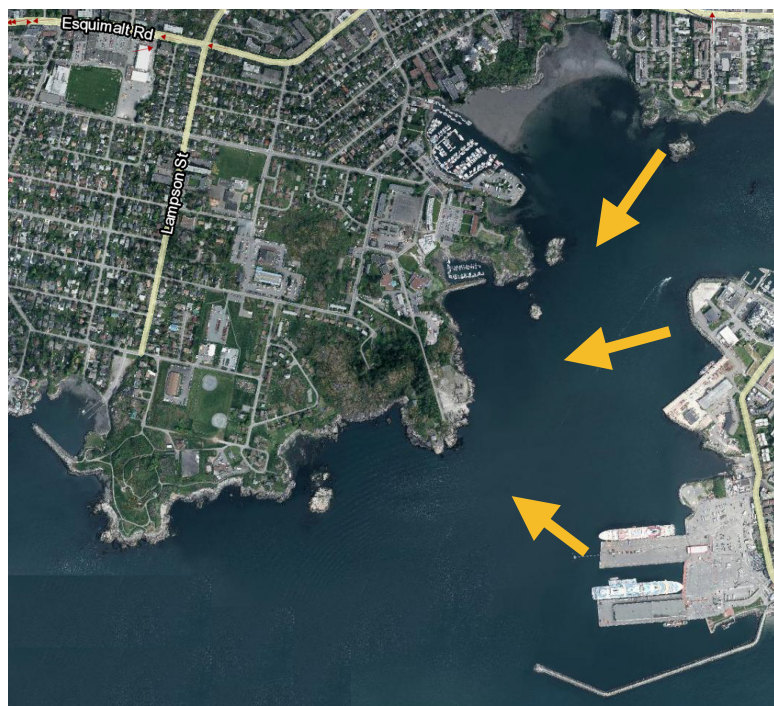
- Design the *Operations and Controls* building to a LEED® Gold standard.
- Where feasible, design for on-site heat recovery, and plan for future, long-term, neighbourhood, heat-resource opportunities.
- Incorporate a green roof system into the *Operations and Controls* building and other buildings, where appropriate.
- While much of the site is impervious rocky shoreline, where possible, introduce methods to clean and reduce stormwater runoff, incorporate rain gardens, and consider practical ways to re-use water.
- Restrict impact on the shoreline, except for those areas where wastewater lines enter or exit the treatment plant.

### VIEW CONSIDERATIONS

View impacts are an important design consideration given that the site is a waterfront property. The impact on views from all sides (including from east and south perspectives, from across the harbour, and from above) need to be considered in the design process.

Building and design view impacts will be evaluated from the following locations:

- Shoal Point and Ogden Point;
- Songhees Walkway to West Bay; and
- From above.

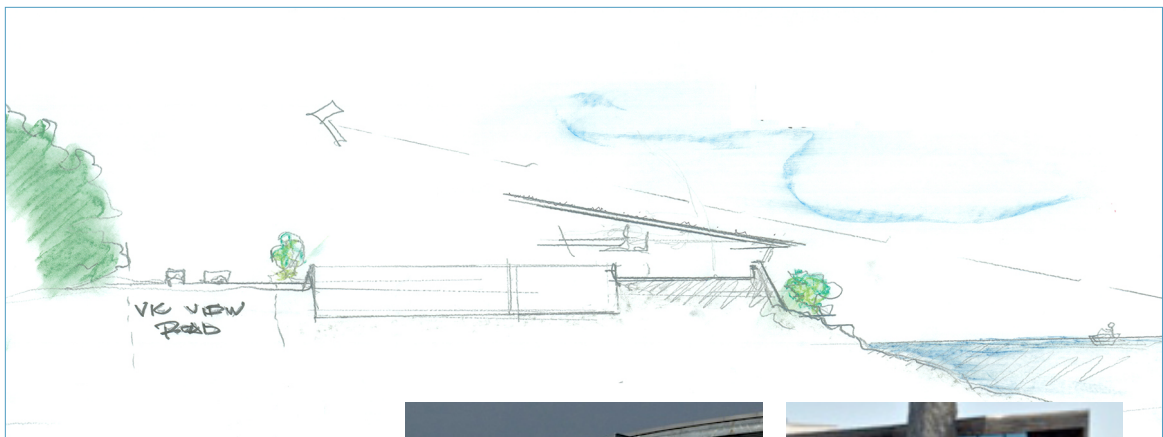


## MARINE SHORELINE CHARACTER DESIGN CONSIDERATIONS

- Building forms should respect the site.
- Wall elements, relating to tsunami and associated catastrophic event protection, such as stepped walls that incorporate angled features, projections, wall terraces, and textures, should reflect the character of the rocky shoreline,.

## MASSING, SITING & EXTERIOR ARCHITECTURAL ELEMENTS

- The design must demonstrate how the buildings and structures will fit into the site, responding to the shoreline in the forefront, and the evergreen treeline and rocky knoll backdrop.
- Building heights should vary, but not exceed 15 metres, from the finished grade.
- Design aesthetics should be optimized with the use of appropriate, high quality materials.
- Exterior building materials, including exterior details, must be selected to withstand intense weather and sea conditions, and must be of a high standard to ensure low maintenance.
- Doors, overhead doors, and other closures (including hatches, grilles, and louvres) should be durable, thermally resistant, and suitably finished for the marine environment.
- Windows should have high performance glazing, and be capable of providing natural ventilation, where appropriate.
- Roof areas must consider views from above.
- Clarifiers and aerated filters must be covered to meet noise and odour principles.



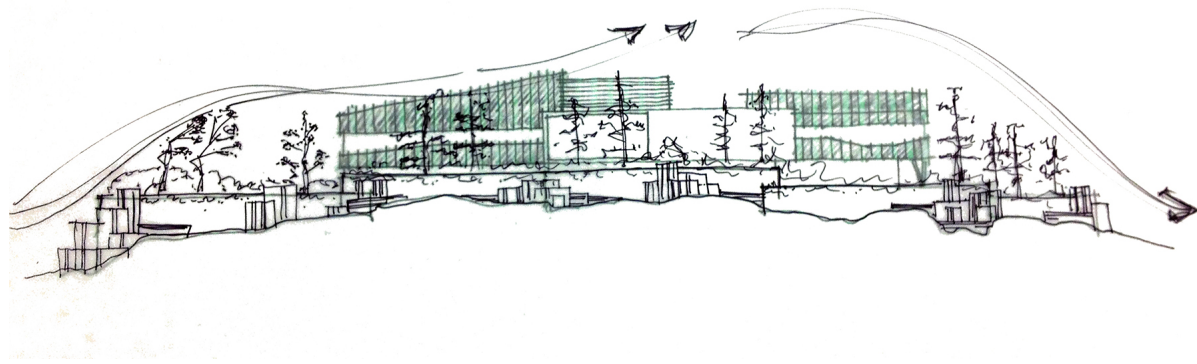
## LIGHTING

- Light fixtures should provide no more than the minimum lighting needed for their intended purposes, and not exceed levels recommended by the *Illuminating Engineering Society for North America Recommended Practice Manual: Lighting for Exterior Environments*.
- Light fixture shields should be specified to reduce impacts on other properties, and when seen from the designated viewpoints.
- All lighting should be directed downward, and not into the night sky.
- Energy efficient fixtures should be specified, with consistent colour for all lighting.

## LANDSCAPE ELEMENTS

The design concept is based on site conditions, views from the harbour, and a windswept rocky shoreline. With this in mind, landscape elements should include:

- Use of plant species that are designated hardy to harsh, and for salt spray environments; situate plants such that the force of the wind shapes their future forms;
- A retaining wall system designed to reflect the rugged and rough-textured surface of boulders and exposed-rock shorelines;
- Outdoor storage and parking areas screened through the use of berms, fences, landscaping and/or solid noise-absorbing barriers;



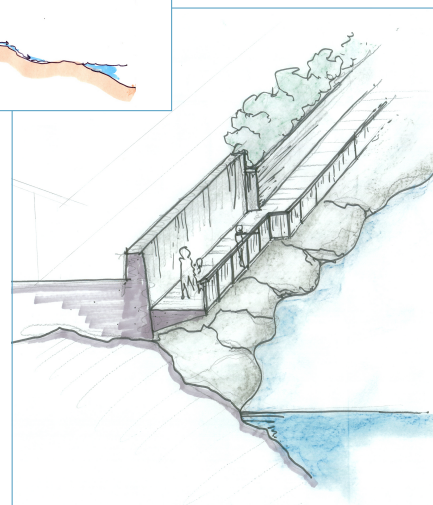
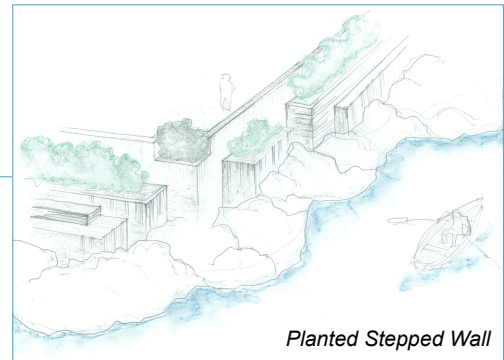
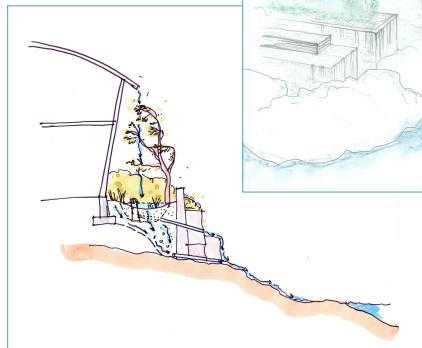
## GUIDELINES FOR SEAWALL AND WALLS

The retaining wall system should be designed to reflect the rugged and textured surface of the exposed-rock shorelines. To reduce view impacts for neighbouring communities and water/air traffic, the mass of the wall (combined height and width) will be broken up visually with features such as board form relief, wall projections, vertical elements, and wall protrusions. It should feature both rounded, smooth, and angular surfaces to reflect the natural shoreline.



Walls are divided into two types: 1) primary walls, which are prominent perimeter retaining walls, and feature walls within the plant; and 2) secondary walls, which serve as infill between the primary walls.

- Walls must not protrude beyond the High Water Mark (HWM 1.804m geodetic).
- The site must be protected by a continuous tsunami protection wall that has a top elevation of not less than 6.5 metres above the High Water Mark.
- The appearance of wall heights greater than 4.0 metres must be minimized by placing step walls in the tsunami protection wall.
- Planted stepped walls should be a minimum depth of 1.0 metre horizontally to allow for landscape elements to be introduced. Where this is not possible, shallower multiple steps may be used.
- All surfaces of the primary perimeter retaining walls must be finished with random board-formed recesses or other suitable architectural treatment. Vertical recesses should be spaced randomly. A smooth finish should be considered for secondary walls.
- The design should plan for development of a pedestrian pathway along the waterfront side of the site.





## GUIDELINES FOR PLANTING – GENERAL

- Distribution of plants will be limited due to salt spray and wind exposure, particularly on the south side of the site
- Planting will exclude lawns.
- Mature plant heights must be at least 60 cm tall for all planted areas to shade undesirable weed species.
- Planting densities must ensure that vegetated areas will have 100% plant coverage after two full growing seasons.
- Planted areas will be irrigated with a high efficiency irrigation system.
- Plants should be drought tolerant and require minimal water after the two-year establishment period.
- Green roofs must be installed fully established to minimize wind erosion and maintenance.
- All planting will be to BCNLA/BCSLA Landscape Standards.

## GUIDELINES FOR PLANTING ALONG SEAWALLS

- Distribution of plants will be limited due to salt spray and wind exposure.
- Trees must be situated more than 10 metres from the south facing wall, as this will be a high wind velocity area.
- The following species are considered appropriate for use along the waterfront:
  - *Pinus contorta* var. *Contorta* (Shore Pine)
  - *Arbutus menzesii* (Pacific Madrone)
  - *Rosa nutkana* (Nootka Rose)
  - *Symphoricarpus albus* (Snowberry)
  - *Arbutus unedo* (Strawberry Tree)
  - *Myrica californica* (Sweet Gale)
  - *Lonicera pileata*  
(Privet Honeysuckle)
  - *Mahonia aquifolium*  
(Oregon Grape)

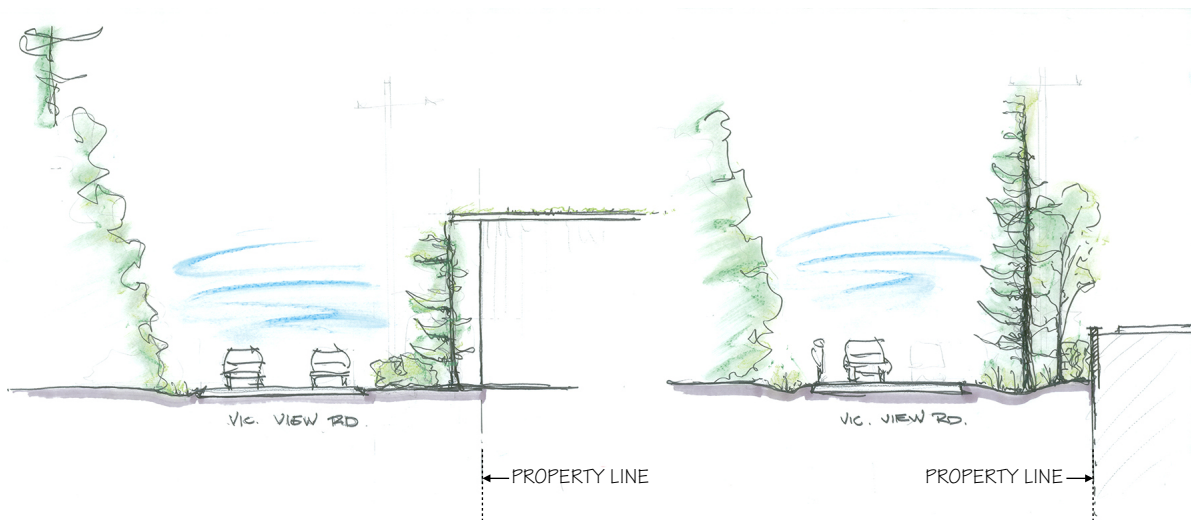


## GUIDELINES FOR PLANTING ADJACENT TO BUILDING ENTRANCES

Planting around the building entrances can be more design driven, and specific hard and soft landscaping should complement the building architecture.

## GUIDELINES FOR SCREENING ON VICTORIA VIEW ROAD

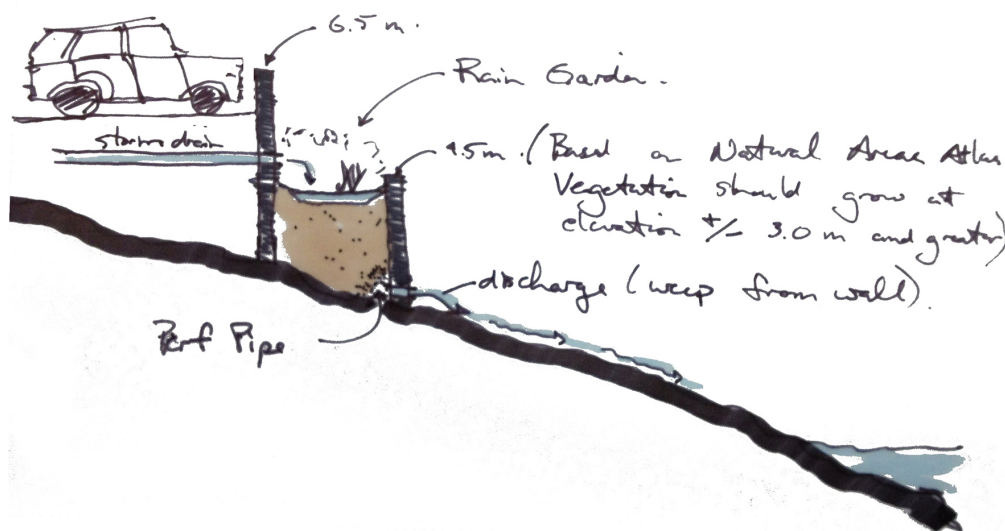
- To break up the mass of concrete walls, introduce screening (mostly of coniferous tree plantings) along the road frontage and adjacent property lines. The CRD should work with the Department of National Defence to allow for landscaping along the road frontage adjacent to the site. Cluster trees to provide clear 8-metre wide gaps to allow for future maintenance access (from a crane).
- A continuous shrub border will be required at the base of the wall to screen the lower retaining wall, and reduce the risk of vandalism. Shrubs in this area are to be native species only, with the exception of those adjacent to the two entrances, where lower evergreen screening is desirable.
- In situations with larger retaining walls, vines can be considered, but must be supported by cable systems.
- The following species are considered appropriate for use in screening applications:
  - *Pseudotsuga menziesii* (Douglas Fir);
  - *Rosa nutkana* (Nootka Rose);
  - *Symphoricarpus albus* (Snowberry); and
  - *Parthenocissus tricuspidata* (Boston Ivy).



## STORMWATER MANAGEMENT

The following stormwater management measures should be considered for the site:

- Stormwater from the internal roadways and parking areas will be treated to remove 80% of TSS from a 6-month rain event prior to discharge.
- Treatment of roadway and parking run-off can come in the form of:
  - A combination of rain gardens and bioswales adjacent to the parking and roadways, complete with raised overflow basins, and under drains connected to the storm drain system;
  - Aqua-pave permeable paving, complete with an under drain system in discrete areas where direction of run-off to a bioswale is not feasible; or
  - A combination of these.
- A conventional storm drain will be installed with an outfall to the ocean. All drainage from the site will eventually be discharged through this pipe.
- The buildings will connect directly to the piped storm drain system. Building drainage will bypass the treatment system. However, a rain garden, stormceptor, or similar end-of-pipe treatment device could be installed if treatment of roof drainage is required.



## **PARKING AND SERVICES**

- Parking for visitors, plant and system operation staff, and CRD maintenance vehicles should be suitably screened through the use of berms, fences, landscaping, and/or solid noise-absorbing barriers to minimize visual impact.

## **SIGNAGE**

- Limit signage to directional and identification as required for wayfinding.

## **PUBLIC ART AND EDUCATION**

- Public art shall be provided. The CRD and Township of Esquimalt will work together to confirm the process and requirements.
- Plans should include capacity for organized, educational site visits to learn about the functioning of the treatment system, the regional liquid waste management program, resource recovery, etc.





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5th Floor, 844 Courtney Street, Victoria BC V8W 1C4 | 250.383.0304  
Suite 300, 160 Quarry Park Boulevard SE, Calgary AB T2C 3G3 | 403.336.2468

[www.cityspaces.ca](http://www.cityspaces.ca)



# McLoughlin Point Wastewater Treatment Plant

## HARBOUR RESOURCE PARTNERS PROJECT TEAM

AECOM – Engineering 3292 Production Way Burnaby BC V5Z 4R4 - Ernie Maschner

Graham Construction 10840 27 Street SE Calgary AB T2Z 3R6 – Mark Livingston

HDR|CEI 203-655 Tyee Road Victoria BC V2A 6P6- Jim Mann

LADR Landscape Design 495 Dupplin Rd #2b, Victoria, BC V8z 1B8– Bev Windjack



Google

Imagery ©2016 Google, Map data ©2016 Google 200 ft

### DRAWING LIST - ARCHITECTURAL

SHEET NUMBER	SHEET NAME
A-0	COVER SHEET
A-1	ARCHITECTURAL ROOF PLAN
A-2	RETAINING WALL PLAN
A-3	LEVEL 1
A-4	LEVEL 2
A-5	BUILDING AND SITE SECTIONS
A-6	BUILDING ELEVATIONS
A-7	BUILDING ELEVATIONS 2
A-8	RENDERED VIEWS 1
A-9	RENDERED VIEWS 2
A-10	RENDERED VIEWS 3
A-11	RENDERED VIEWS 4

### DRAWING LIST - CONSULTANTS

SHEET NUMBER	SHEET NAME
010057954-CNSK01-R03	PROPOSED BUILDING AVERAGE GRADES
L1	LANDSCAPE PLAN
L2	PLANT IMAGES
ML-B0-C-004	TRUCK TURNING AND PARKING PLAN
ML-B0-C-201	EARLY WORK AREA PLAN
ML-B0-E-002	ELECTRICAL SITE LIGHTING PLAN

### PROJECT DATA

SITE	LEGAL DESCRIPTION	CIVIC ADDRESS	NOTES
PROJECT LOT	LOT 1, SECTION 11, AND PART OF THE BED OF VICTORIA HARBOUR, ESQUIMALT DISTRICT, PLAN 36468		SECTION 11 ESQUIMALT DISTRICT
LOT AREA	14,213 m2		

### ZONING ANALYSIS - McLOUGHLIN POINT SPECIAL USE [I-3]

BONUS DENSITY LEVEL 3	PERMITTED	PROPOSED
FLOOR AREA	4500 m2	2157 m2
DENSITY (FAR)	0.35	0.15
LOT COVERAGE	65%	61%
MAX HEIGHT	15m	15m

### PARKING

Parking requirements include

SPACES AS DETERMINED BY ZONING BYLAW

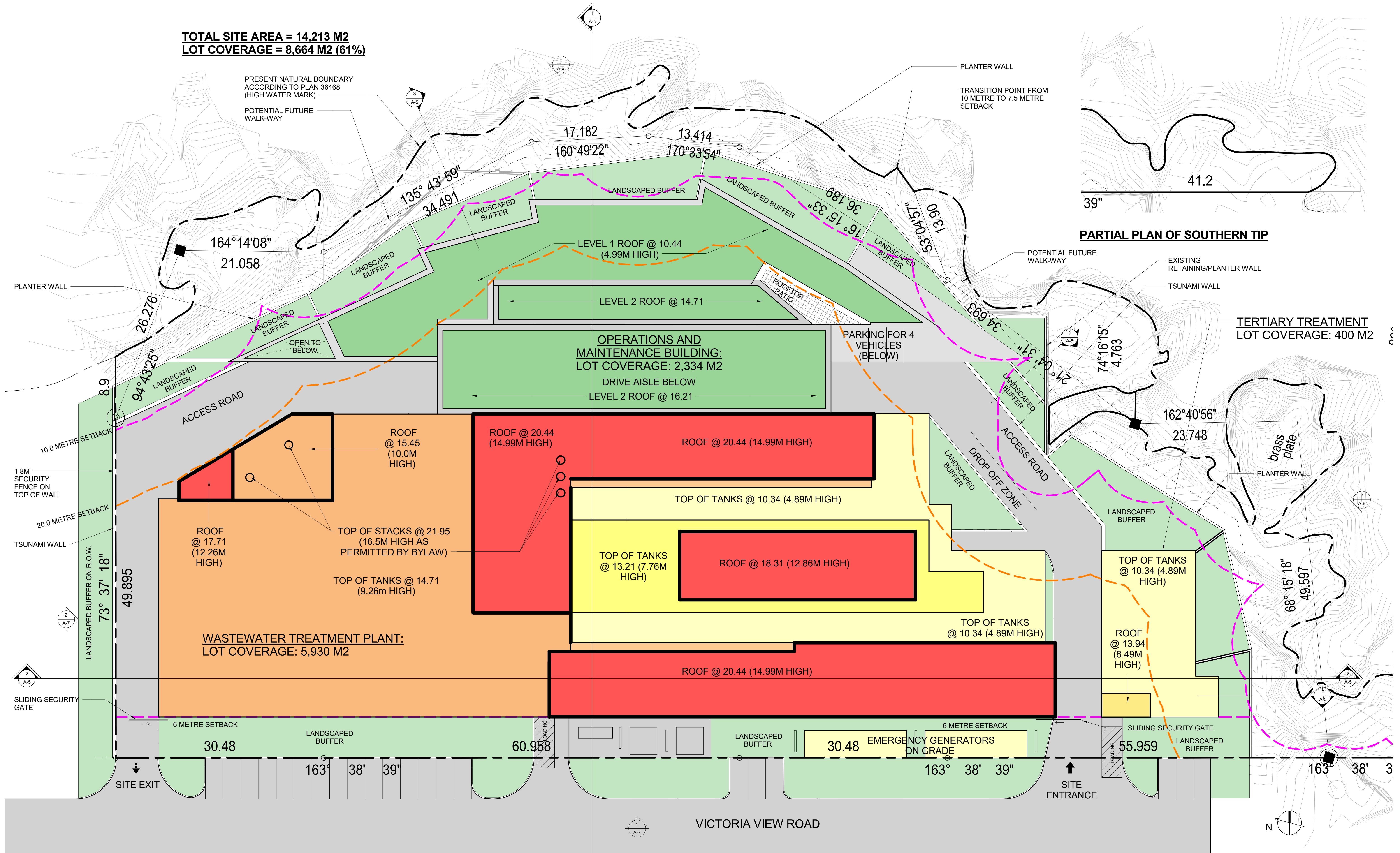
	TOTAL SPACES PROVIDED	REQUIRED SPACES	
STANDARD SPACE MIN. SIZE: 2.6 X 5.5	2	1	
DISABLED SPACE MIN. SIZE: 3.7x 5.5	1	1	
ELECTRIC CAR CHARGING STATION STALLS MIN. SIZE:	1	0	
<b>SUBTOTAL</b>	4	2	
LOADING SPACE MIN. SIZE:	3m X 7.5m X 4.25h	2	2

NOTES:

### BUILDING DATA

FLOOR	O & M (FLOOR AREA m²)	PROCESSING PLANT (GROSS m²)
LEVEL 1	1273 m2	PLANT NOT INCLUDED IN FLOOR AREA
LEVEL 2	868 m2	
<b>TOTAL</b>	2141 m2	
LOT COVERAGE	2334 m2	6330 m2 (INCLUDED IN LOT COVERAGE)

**TOTAL SITE AREA = 14,213 M<sup>2</sup>**  
**LOT COVERAGE = 8,664 M<sup>2</sup> (61%)**



**PARTIAL PLAN OF SOUTHERN TIP**

**TERTIARY TREATMENT LOT COVERAGE: 400 M<sup>2</sup>**

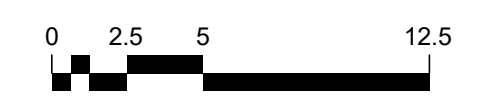
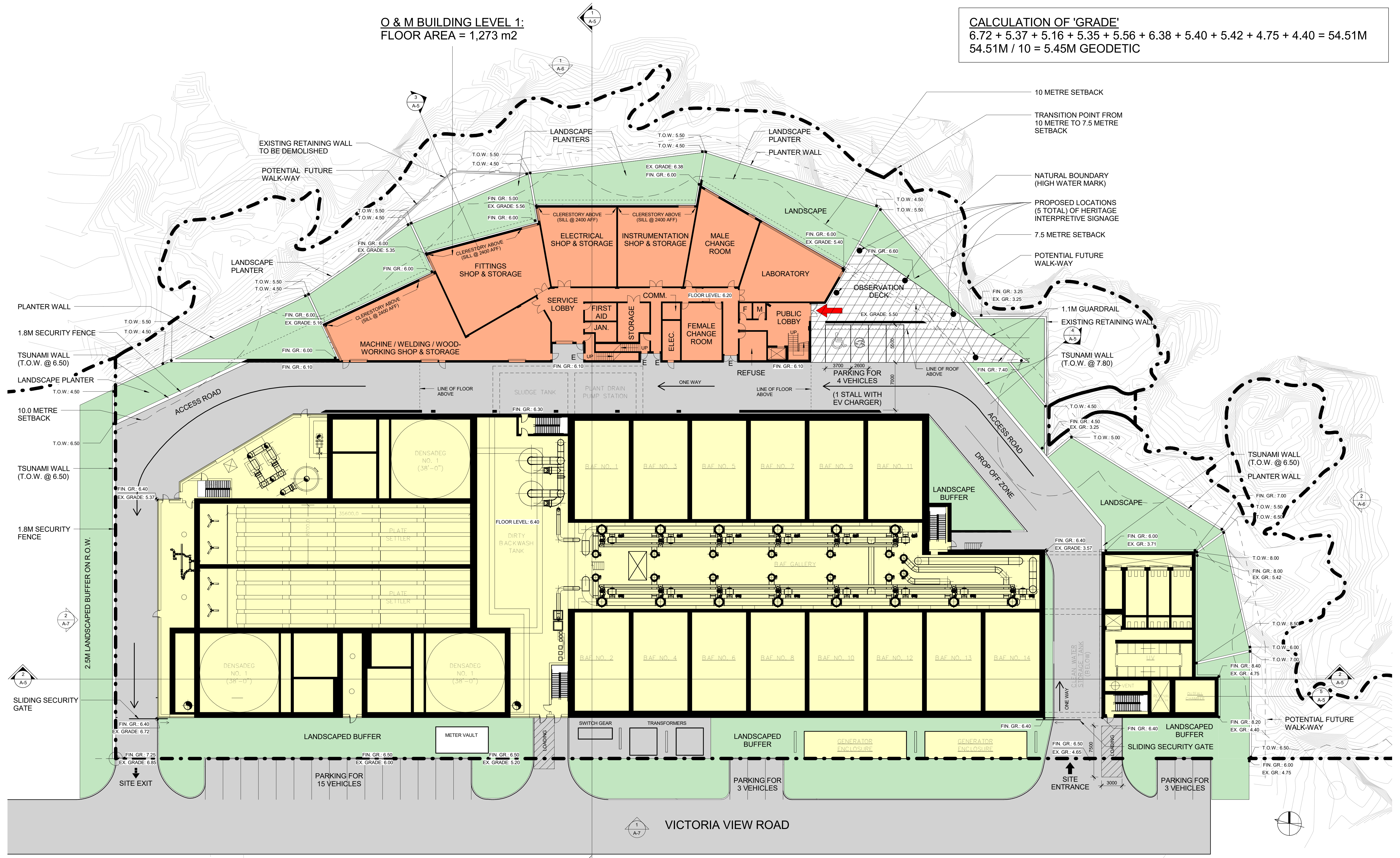




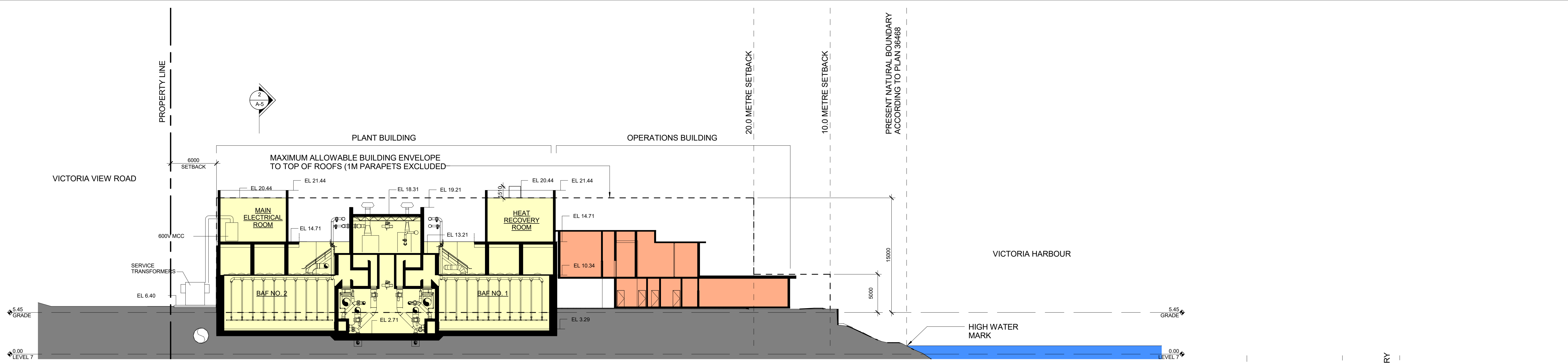


O & M BUILDING LEVEL 1:  
FLOOR AREA = 1,273 m<sup>2</sup>

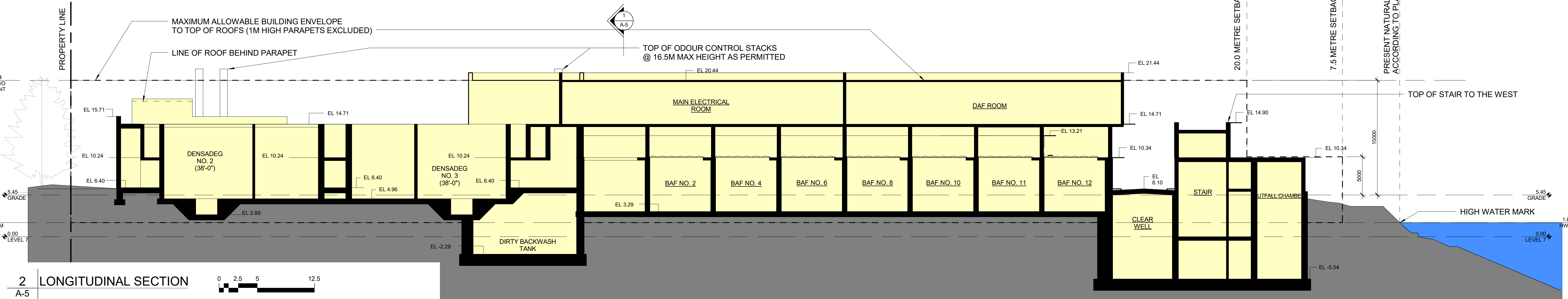
**CALCULATION OF 'GRADE'**  
 $6.72 + 5.37 + 5.16 + 5.35 + 5.56 + 6.38 + 5.40 + 5.42 + 4.75 + 4.40 = 54.51\text{M}$   
 $54.51\text{M} / 10 = 5.45\text{M GEODETIC}$



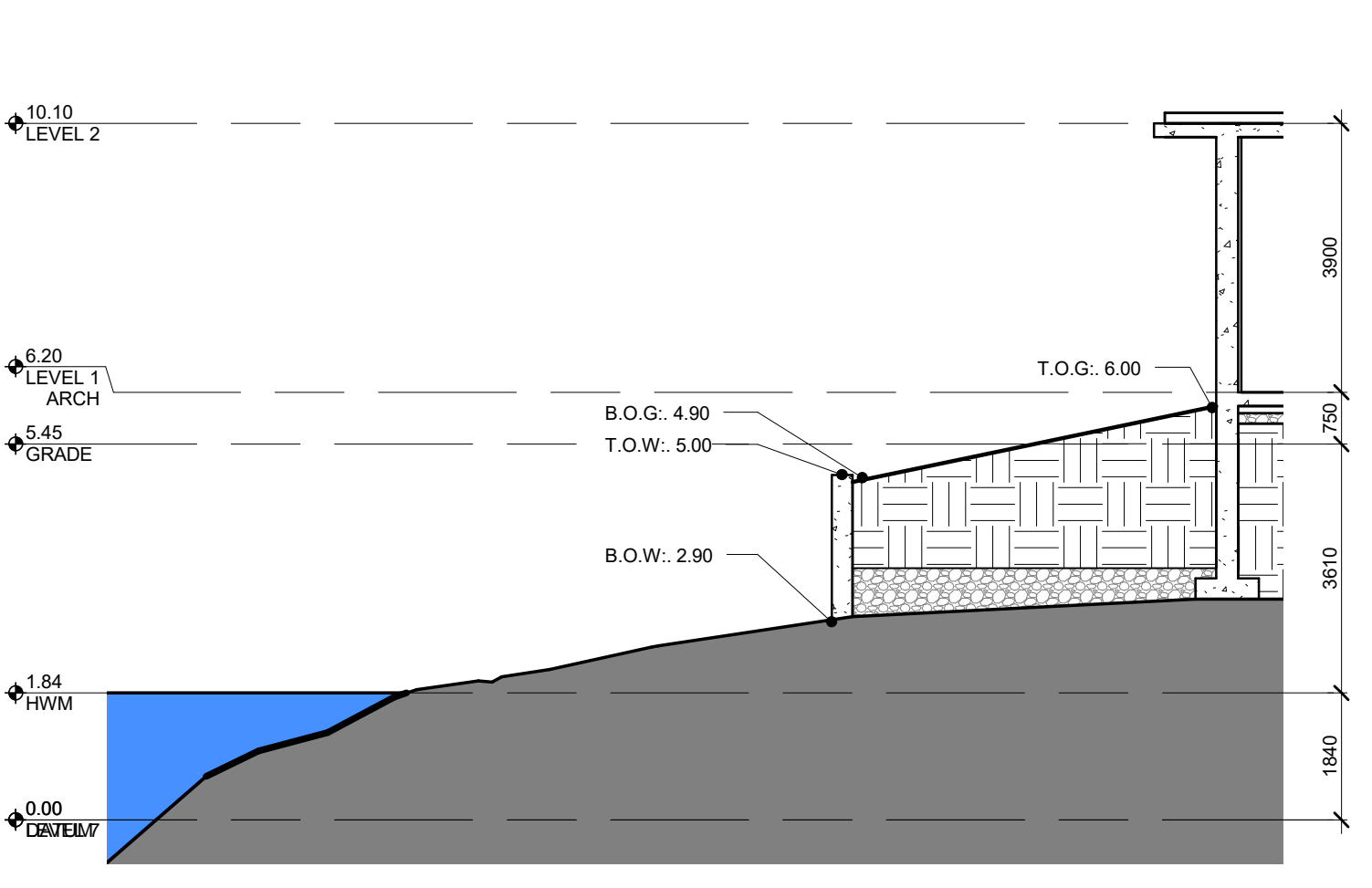




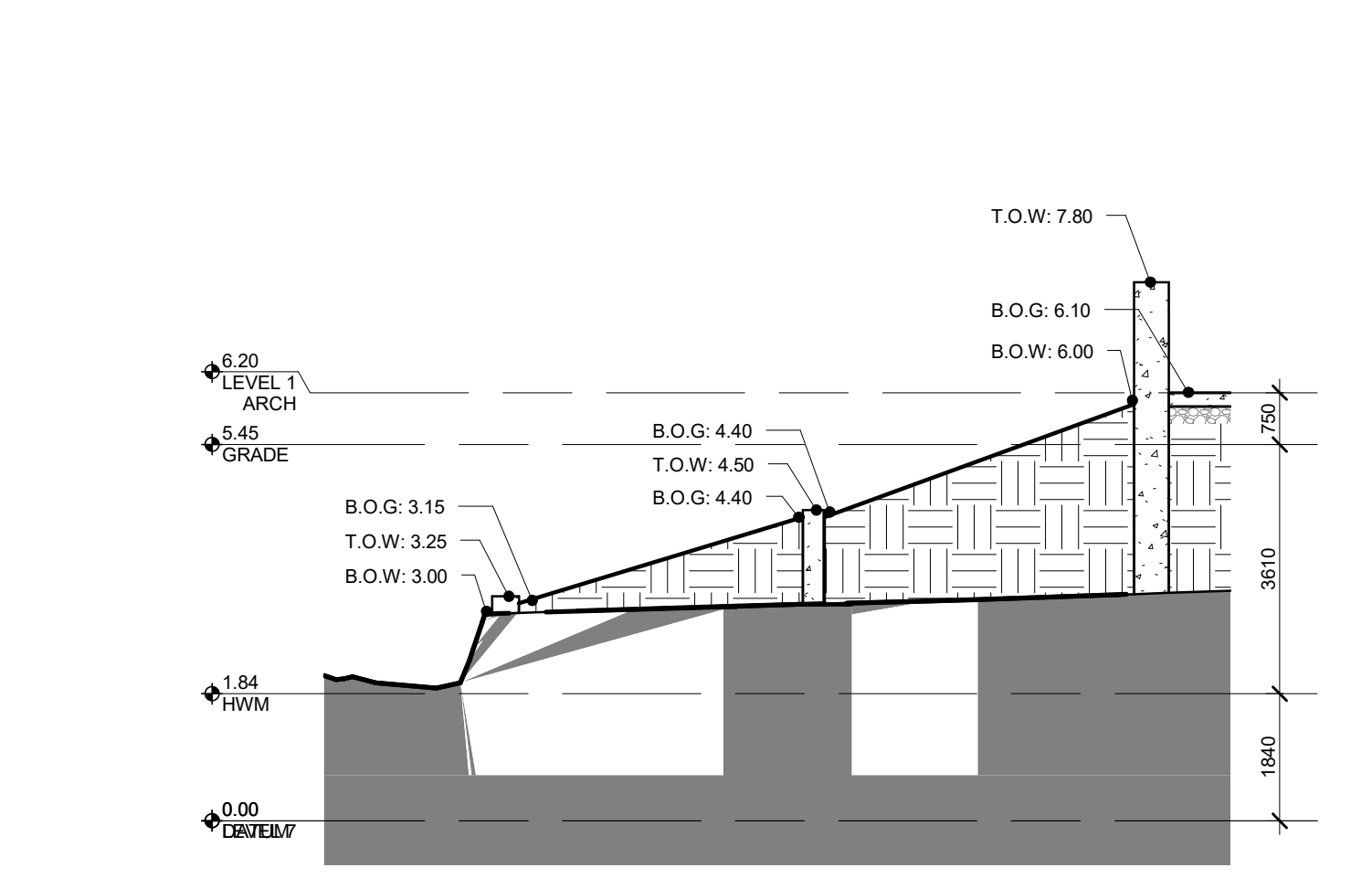
1 TRANSVERSE SECTION  
A-5



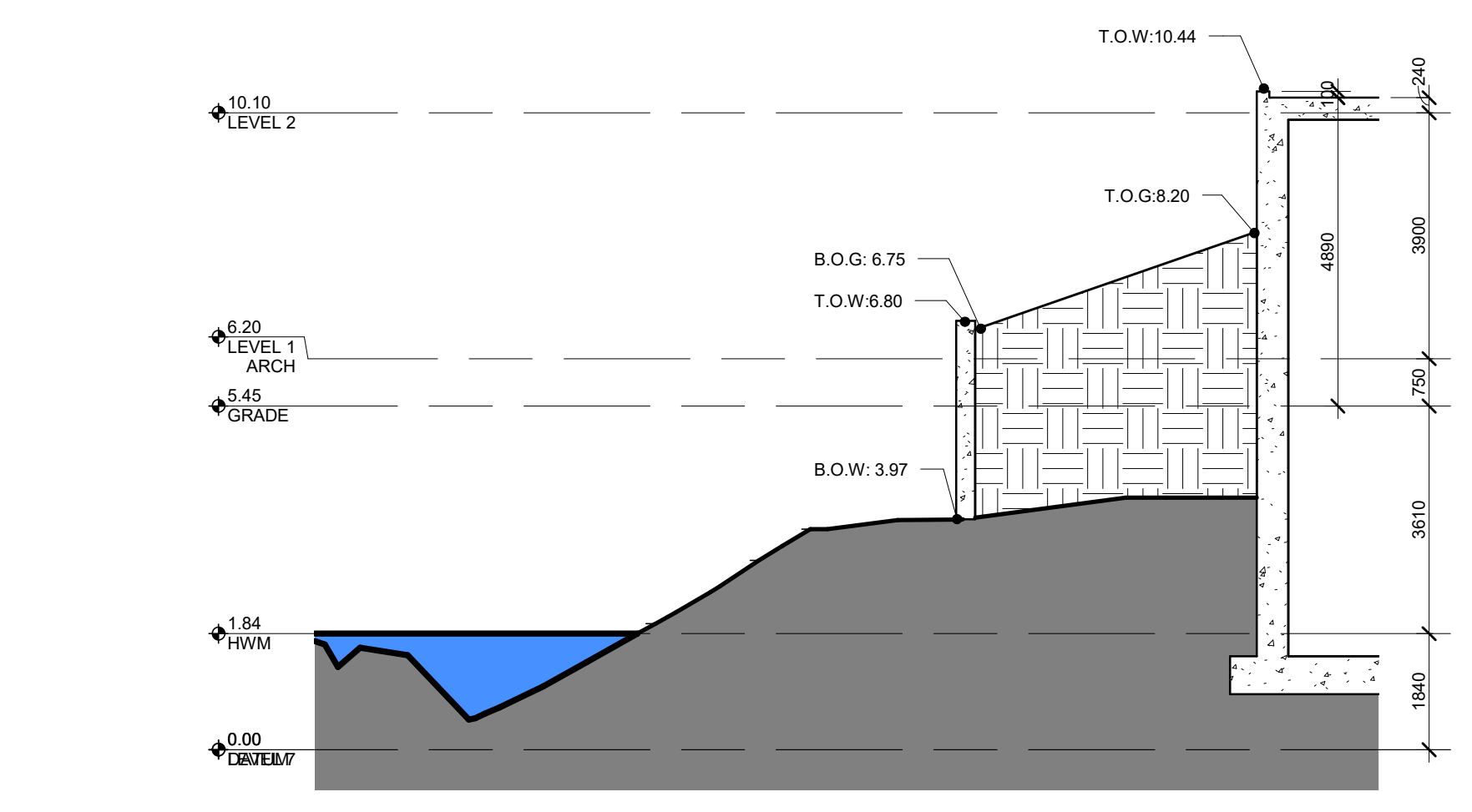
2 LONGITUDINAL SECTION  
A-5



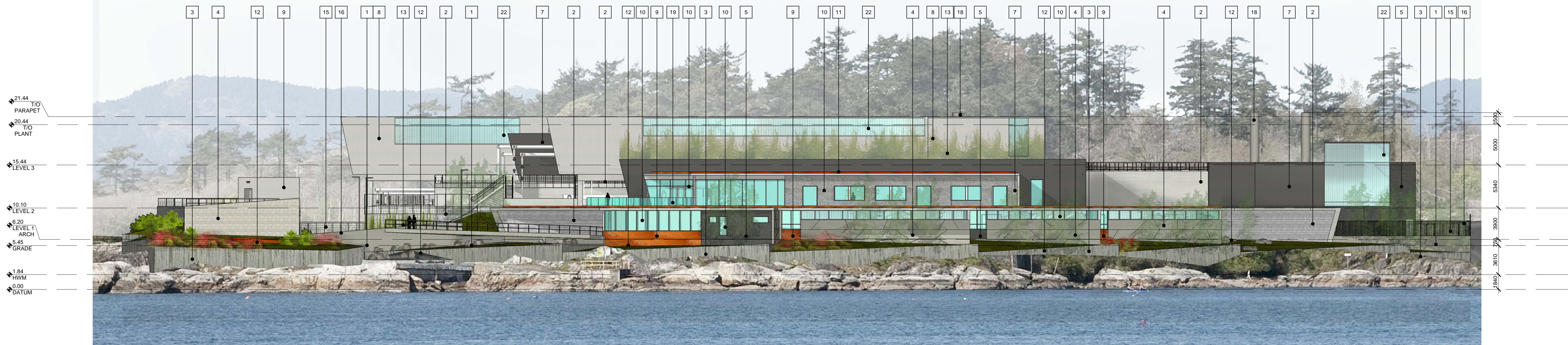
3 RETAINING WALL SECTION 1  
A-5



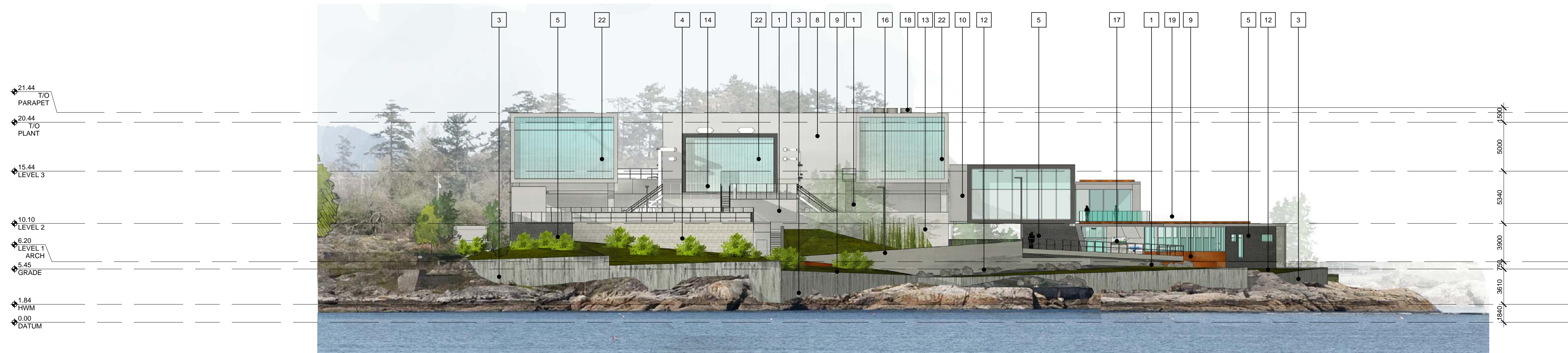
4 RETAINING WALL SECTION 2  
A-5



5 RETAINING WALL SECTION 3  
A-5



1 BUILDING ELEVATION - EAST  
A-6



2 BUILDING ELEVATION - SOUTH  
A-6



### EXTERIOR ELEVATION KEY NOTES

#### GENERAL NOTES

1. ALL RETAINING WALLS TO RECEIVE A LIGHT SANDBLAST FINISH

1	CONCRETE - ARCHITECTURAL FINISH (SMOOTH)	6	MASONRY CLADDING - LIGHT	11	SEDUM MAT GREEN ROOF	16	SECURITY FENCE	21	PRE-PAINTED GENERATOR ENCLOSURE
2	CONCRETE - BOARDFORM (MEDIUM TEXTURE)	7	METAL PANEL CLADDING - DARK	12	LANDSCAPE ELEMENTS	17	INTERPRETIVE SIGNAGE	22	TRANSLUCENT POLYCARBONATE PANEL
3	CONCRETE - BOARDFORM (ROUGH TEXTURE)	8	METAL PANEL CLADDING - LIGHT	13	CLIMBING VEGETATION ON SCREEN ELEMENT	18	ODOUR CONTROL STACKS - GREY METAL		
4	CONCRETE - PRECAST CONCRETE PANEL	9	STAINED CONCRETE PANEL	14	METAL BAR GRATE SCREEN	19	GLASS GUARD		
5	MASONRY CLADDING - DARK	10	GLAZING IN ALUMINUM FRAME	15	METAL BAR GRATE - SECURITY GATE	20	PIPE RAIL GUARD		

As indicated



1 BUILDING ELEVATION - WEST  
A-7



2 BUILDING ELEVATION - NORTH  
A-7



**EXTERIOR ELEVATION KEY NOTES**

GENERAL NOTES  
1. ALL RETAINING WALLS TO RECEIVE A LIGHT SANDBLAST FINISH

1	CONCRETE - ARCHITECTURAL FINISH (SMOOTH)	6	MASONRY CLADDING - LIGHT	11	SEDUM MAT GREEN ROOF	16	SECURITY FENCE	21	PRE-PAINTED GENERATOR ENCLOSURE
2	CONCRETE - BOARDFORM (MEDIUM TEXTURE)	7	METAL PANEL CLADDING - DARK	12	LANDSCAPE ELEMENTS	17	INTERPRETIVE SIGNAGE	22	TRANSLUCENT POLYCARBONATE PANEL
3	CONCRETE - BOARDFORM (ROUGH TEXTURE)	8	METAL PANEL CLADDING - LIGHT	13	CLIMBING VEGETATION ON SCREEN ELEMENT	18	ODOUR CONTROL STACKS - GREY METAL		
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5	MASONRY CLADDING - DARK	10	GLAZING IN ALUMINUM FRAME	15	METAL BAR GRATE - SECURITY GATE	20	PIPE RAIL GUARD		

As indicated



AERIAL VIEW FROM SOUTH EAST



VIEW FROM OGDEN POINT



VIEW FROM SHOAL POINT



VIEW FROM SONGHEES WALKWAY





VIEW FROM SONGHEES WALKWAY - NIGHT



VIEW FROM OGDEN POINT - NIGHT



VIEW FROM WATER SOUTH OF SITE



First-level pre-vegetated sedum mat green roof with hydro-mat (different mixes create a banded pattern)

Second-level pre-vegetated sedum mat green roof with hydro-mat (different mixes create a banded pattern)

Douglas Fir (15) and Shore Pine (19) trees provide tall vegetative screening to site. Shoreline plantings are composed of mass plantings of hardy native shrubs and groundcovers. Large shrubs and trailing groundcovers overhang the seawall and provide leaf fall and insect drop into the intertidal area, benefitting fish and other organisms. (Red Elderberry, Oceanspray, Indian Plum, Hooker's Willow, Snowberry, Nootka Rose, Baldhip Rose, Kinnickinnick, Twinflower, Redtwig Dogwood, Oregon Grape)

Large landscape boulders and logs reflect the rocky coastline that surrounds the site

Linear raingarden collects runoff from the road and features native shrubs, ferns and grasses

5M wide vegetated border strip is composed of native and adaptive shrubs and ferns, interspersed with Douglas Fir trees (8). (Red Elderberry, Indian Plum, Redtwig Dogwood, Oceanspray, Oregon Grape, Sword Fern, Deer Fern, Blue Oat Grass)

First-level viewing platform and patio (HydraPressed concrete slabs)

Ground-level viewing platform and plaza featuring interpretive signage cantilevers over the raingarden and boulders below (Sawcut broom finish concrete)

1M wide semi-intensive green roof strip with a hydro-blanket along the building edge supports the growth of vines which grow on the adjacent building face

Large landscape boulders and logs contained within the existing retaining wall reflect the rocky coastline that surrounds the site

Trellis on corner of building supports a Honeysuckle vine

Linear raingarden bordered by a swath of large landscape boulders collects runoff from the road and cantilevered viewing platform above. Rain garden features native shrubs, ferns and grasses

Mounded planting bed with Douglas Fir trees (5) and native shrubs underneath (Redtwig Dogwood, Nootka Rose, Oregon Grape, Sword Fern, Red Elderberry, Salal, Oceanspray, Snowberry)

Rain garden supported by corten steel wall captures runoff from adjacent building roof and roadway. Plantings are composed of native shrubs and grasses

Shoreline plantings are composed of mass plantings of hardy native shrubs and groundcovers. Large shrubs and trailing groundcovers overhang the seawall and provide leaf fall and insect drop into the intertidal area, benefitting fish and other organisms. Planting beds are mounded (1:3) to building face for screening. (Red Elderberry, Oceanspray, Indian Plum, Hooker's Willow, Snowberry, Nootka Rose, Baldhip Rose, Kinnickinnick, Twinflower, Redtwig Dogwood, Oregon Grape)

Serbian Spruce trees (3) frame trellises on the adjacent building face that support honeysuckle vines. Adjacent plantings are composed of native and adaptive shrubs and grasses. (Honeysuckle, Baldhip Rose, Feather Reed Grass, Blue Oat Grass)

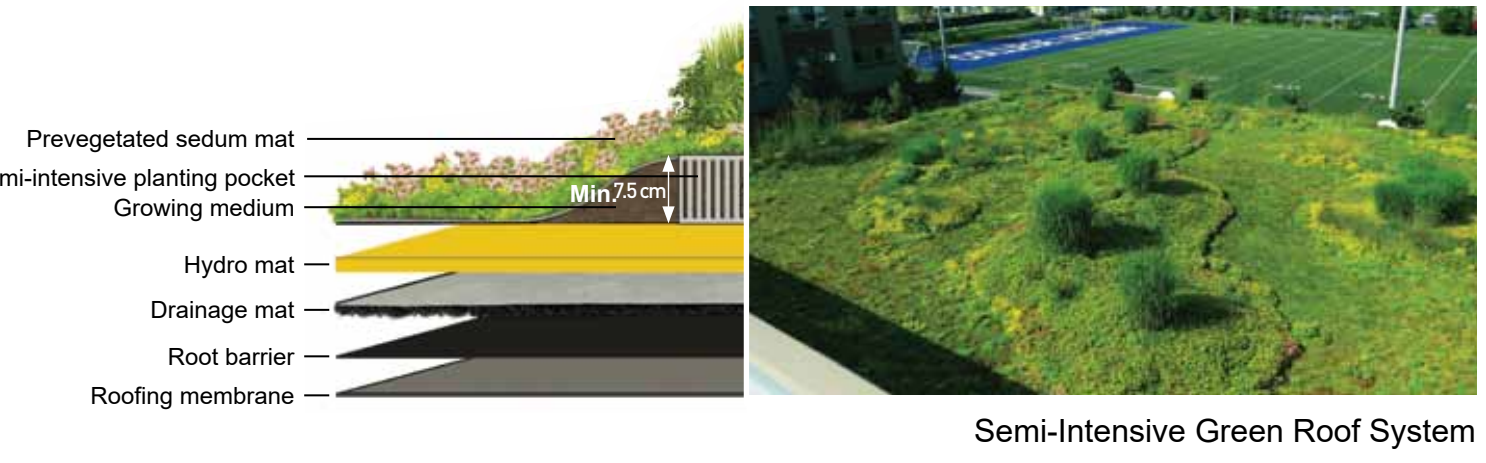
Boulder walls allow planting beds to be mounded against building faces along Victoria View Road. Planting beds are composed of native and adaptive shrubs, ferns and grasses, interspersed with Black Pine (13), Columnar Spruce (15), and Himalayan White Birch (9) trees which provide vertical screening of the site. (Oregon Grape, Strawberry Bush, Coastal Strawberry, Blue Oat Grass, Baldhip Rose, Red Currant, Snowberry)

**Recommended Nursery Stock**

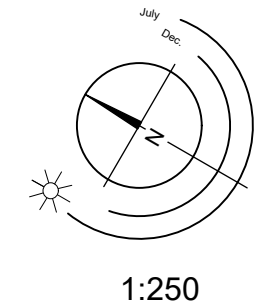
Trees	
Total: 87	
Botanical Name	Common Name
Betula jacquemontii	Himalayan White Birch
Picea omorika	Serbian Spruce
Picea pungens 'Iseli Fastigiata'	Columnar Blue Spruce
Pinus contorta	Shore Pine
Pinus nigra	Black Pine
Pseudotsuga menziesii	Douglas Fir
Pseudotsuga menziesii LG	Douglas Fir (Large)
Large Shrubs	
Total: 270	
Botanical Name	Common Name
Arbutus unedo 'Compacta'	Compact Strawberry Bush
Holodiscus discolor	Oceanspray
Oemleria cerasiformis	Indian Plum
Ribes sanguineum	Red Flowering Currant
Salix hookeriana	Hooker's Willow
Sambucus racemosa	Red Elderberry

Medium Shrubs	
Total: 1979	
Botanical Name	Common Name
Cornus stolonifera	Redtwig Dogwood
Mahonia aquifolium	Tall Oregon Grape
Rosa gymnocarpa	Baldhip Rose
Rosa nutkana	Nootka Rose
Symphoricarpos albus	Snowberry
Small Shrubs	
Total: 707	
Botanical Name	Common Name
Gaulltheria shallon	Salal
Mahonia repens	Creeping Oregon Grape
Perennials, Annuals and Ferns	
Total: 1020	
Botanical Name	Common Name
Helictotrichon sempervirens	Blue Oat Grass
Juncus effusus	Common Rush
Mahonia repens	Creeping Oregon Grape
Polystichum munifolium	Sword Fern

Groundcovers	
Total: 1562	
Botanical Name	Common Name
Arctostaphylos uva ursi 'Vancouver Jade'	Vancouver Jade Kinnickinnick
Fragaria chiloensis	Coastal Strawberry
Linnaea borealis	Twinflower
Vines	
Total: 21	
Botanical Name	Common Name
Lonicera periclymenum 'Belgica'	Early Dutch Honeysuckle
Parthenocissus tricuspidata 'Veitchii'	Veitchii Boston Ivy
Green Roof	
Prevegetated Sedum Mat	



**Notes:**  
 1. All work to be completed to current BCSLA Landscape Standards  
 2. All soft landscape to be irrigated with an automatic irrigation system



1:250

# MCLOUGHLIN POINT WASTEWATER TREATMENT PLANT | LANDSCAPE PLAN