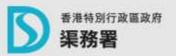


Agenda

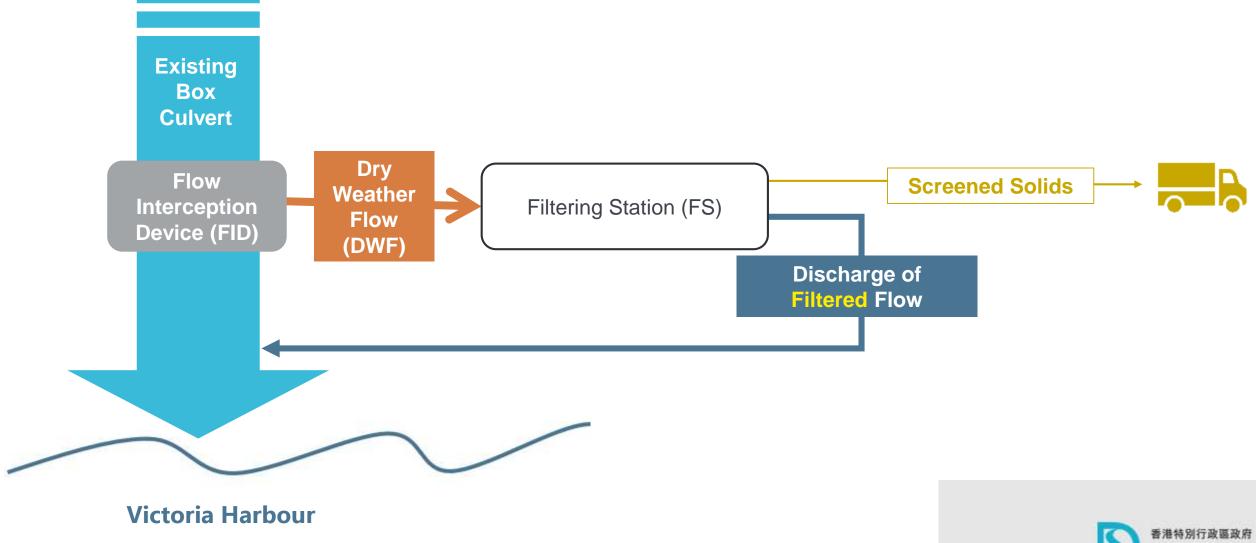
- 1. Project Background
- 2. Wan Chai East DWFI
- 3. Causeway Bay DWFI
- 4. Shau Kei Wan DWFI

Project Background

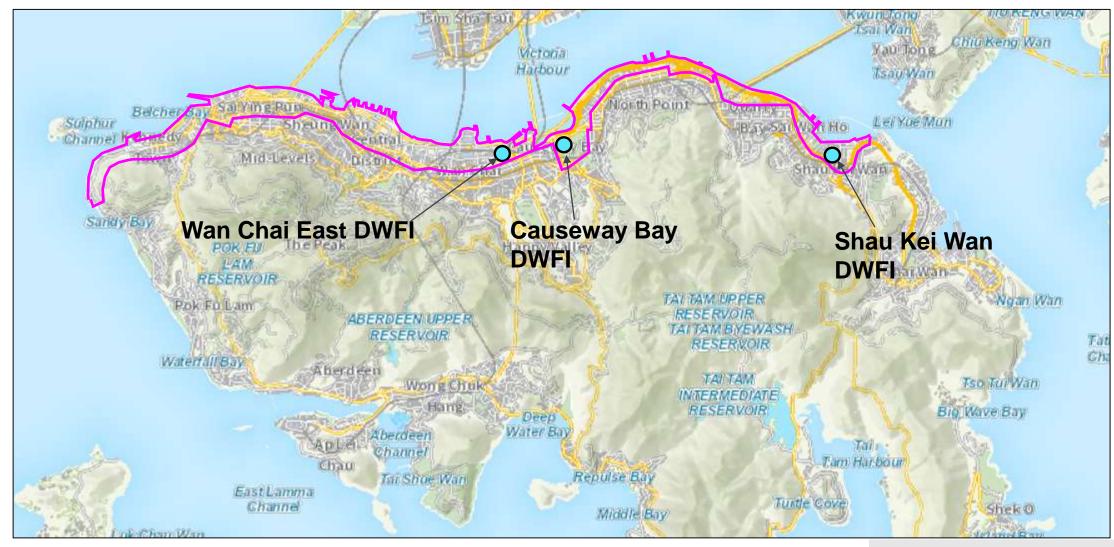
- Dry Weather Flow
 - Polluted water and matters from some buildings and streets together with the stormwater base flow and groundwater infiltration have been discharged into the stormwater drains.
 - The organic materials which were accumulated inside the storm water box culverts will decay and generate odour, affecting the waterfront.
- To address the pollution and odour nuisance at urban coastal waters, the Government is planning to construct DWFI each at Wan Chai East, Causeway Bay and Shau Kei Wan.
- Upon completion of the DWFIs, the near-shore water quality and the general environment at Wan Chai East, Causeway Bay and Shau Kei Wan waterfront will be improved.

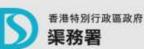


Dry Weather Flow Interceptor (DWFI)



Project Location



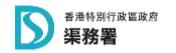


Wan Chai East DWFI

Location







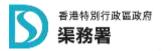


Layout



The proposed DWFI comprises:

- 1. Filtering Station (Co-use with Coach Parking Area)
- 2. Flow Interception Device (FID)
- 3. DWF Pumping Station
- 4. Connection pipe
- 5. Bypass Culvert





Neighbourhood

Factors Affecting the Design of DWF Filtering Station

- Transition from the adjacent <u>Wan Chai Green Community Centre</u> with its organic vertical roof and wall fins
- Façade exposure of DWF filtering station primarily from Hung Hing Road and Wan Shing Street
- The façade of filtering station facing east which is exposed to the Wan Chai East Preliminary Treatment including Hung Hing Road
- Facade exposure from the newly developed Wan Chai Promenade area

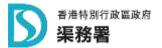












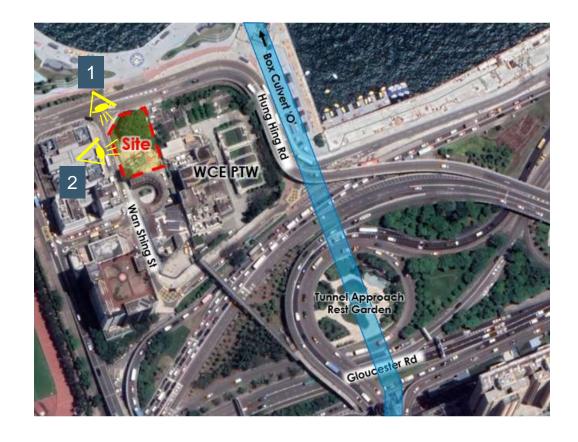


Filtering Station

Existing Site View



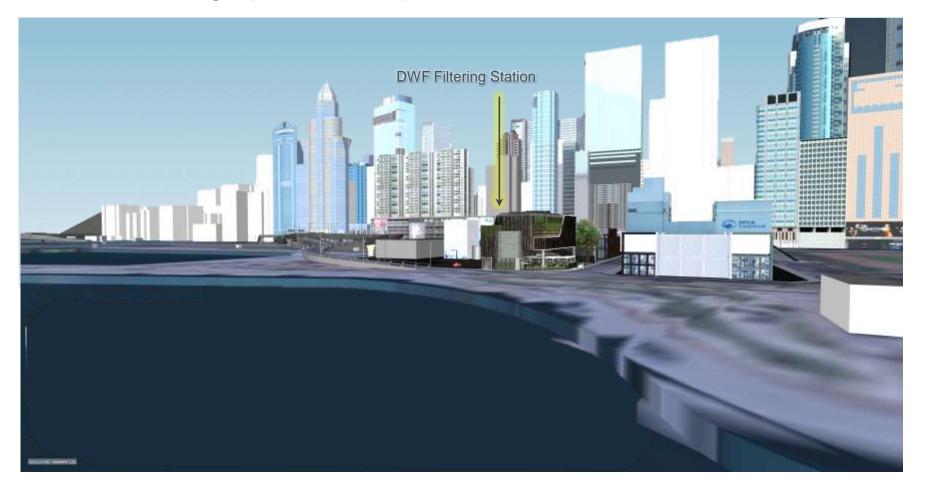








Revised Design (Overall View)





Revised Design (View from Hung Hing Road)





Revised Design (View from Wan Shing Street)







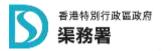


Filtering Station

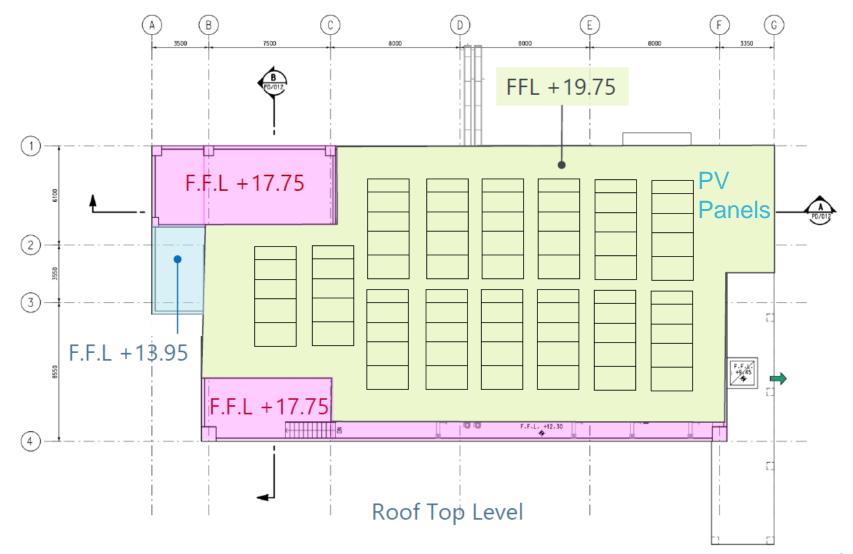
Conceptual Design (Revised Design)



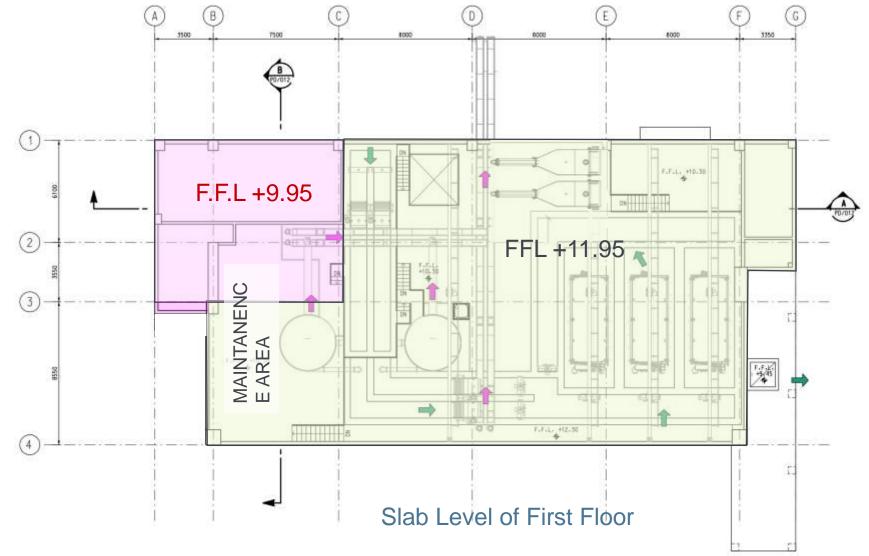
The building façade takes the design language of surrounding architecture and implements organic curves to smoothen the transition of materials.





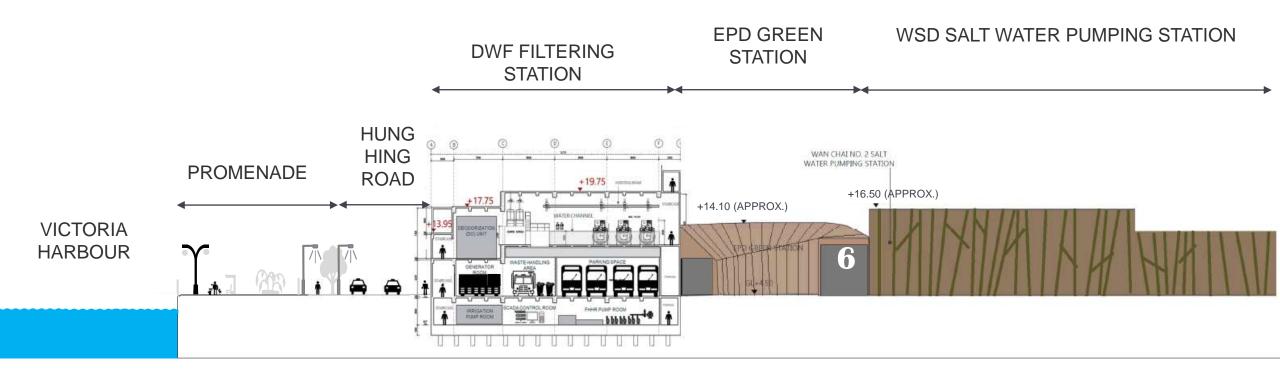




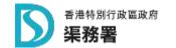




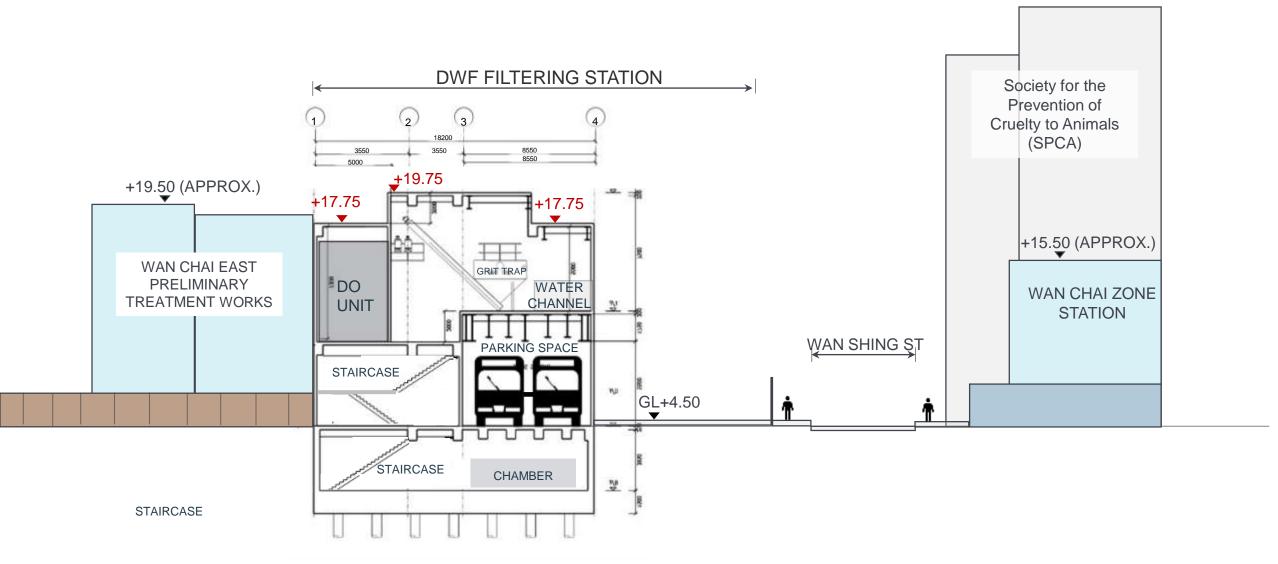


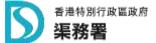


Sectional view from Wan Shing Street



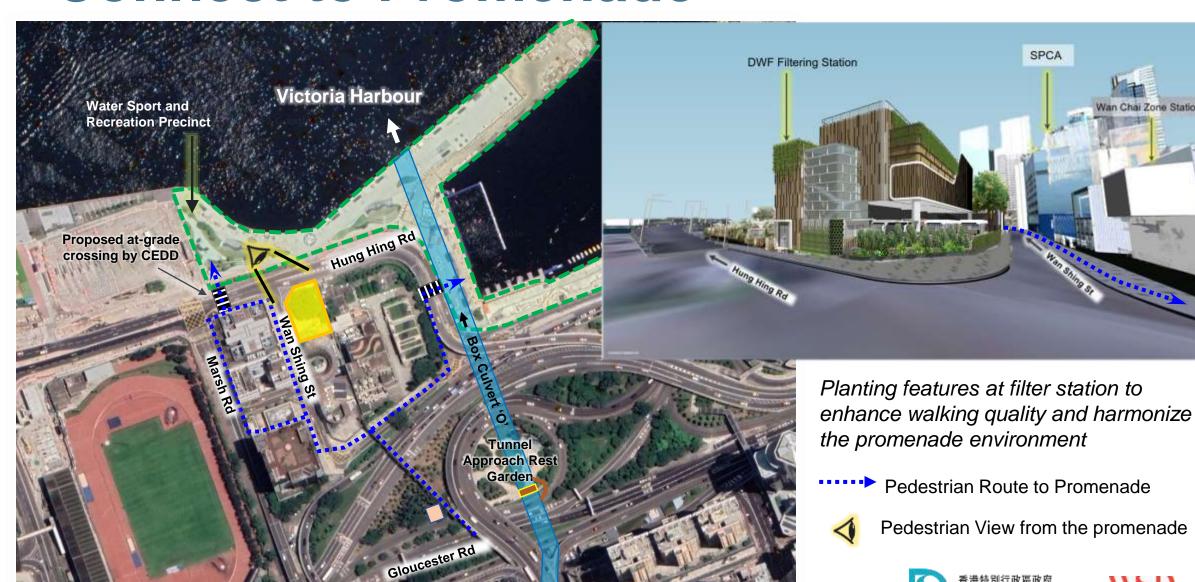


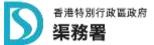






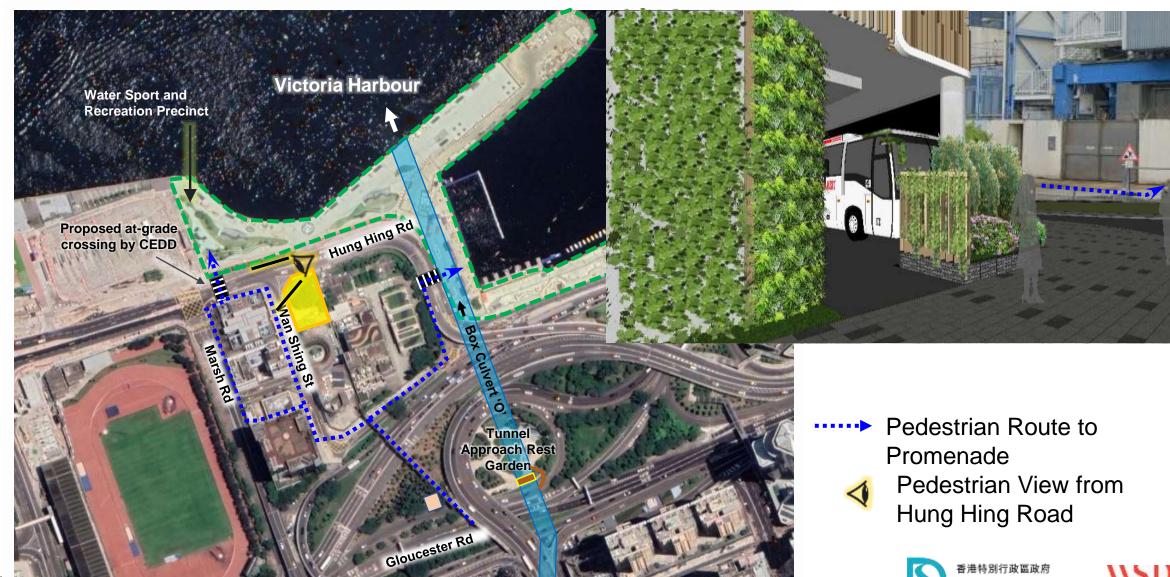
Connect to Promenade







Connect to Promenade



Connect to Promenade



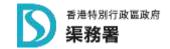
Flow Interception Device at Tunnel Approach Rest Garden

Landscape Treatment











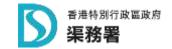
Flow Interception Device at Tunnel Approach Rest Garden



Limit the works space to minimize disturbance to pubic as much as possible during construction









Flow Interception Device at **Tunnel Approach Rest Garden**

Landscape Treatment

Solar PV Panel to support lighting and charging mobile devices



Ref. Photo: Jordan Valley

Ref. Photo

Soft Landscape to screen out the hardcore installations and **Blend with Surrounding**

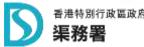






Selfie Stand, Table, Cup Holder



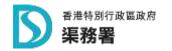




Public Consultation & Implementation Programme

- Development, Planning and Transport Committee of WCDC consultation on 22 Nov 2022
- Local Area Committee consultation in 2023 Q1
- Works to be commenced in 2024
- Estimated Construction Duration: 4 years

	Tentative Schedule
Commencement of Agreement	Dec 2020
DC Consultation	22 Nov 2022
Harbourfront Commission	1 December 2022
Local Area Committee Consultation	2023 Q1
Contract commencement	2024
Commissioning	2028





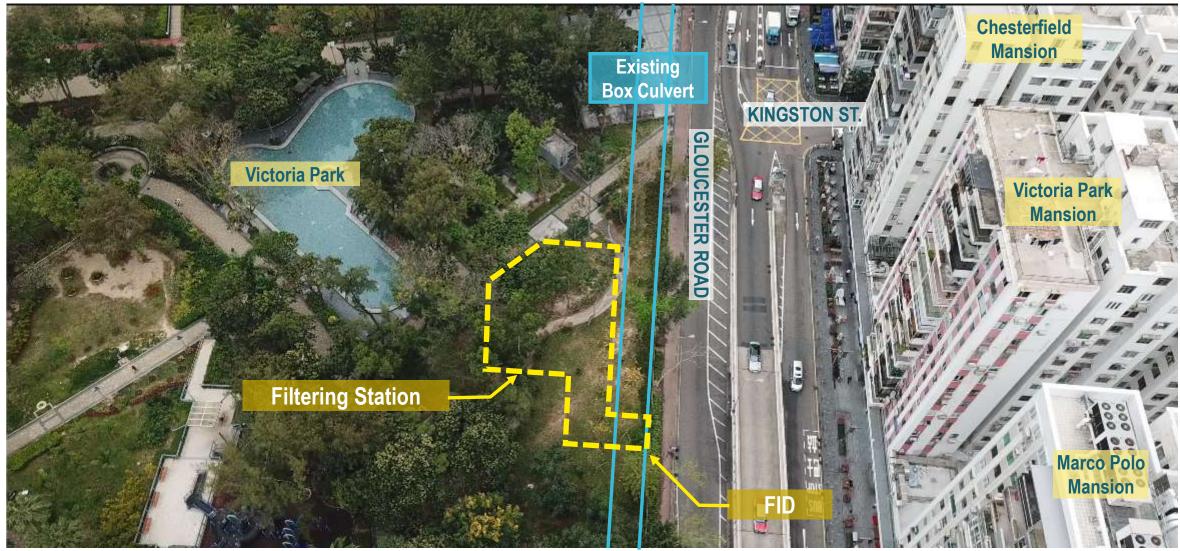
Causeway Bay DWFI

Location





Location









Existing Site View











Surroundings





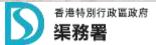












BINNIES HONG KONG LIMITED 實尼斯工程顧問有限公司

Conceptual Design

Draft

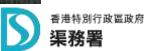




Conceptual Design

Draft



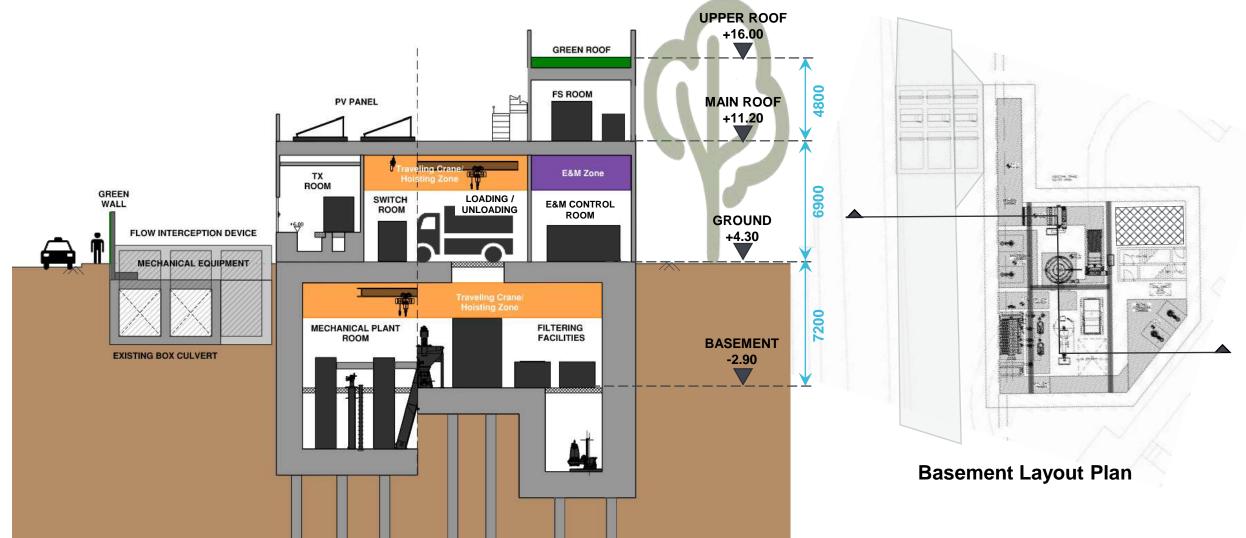


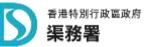


Before

Sectional View of Filtering Station

Section





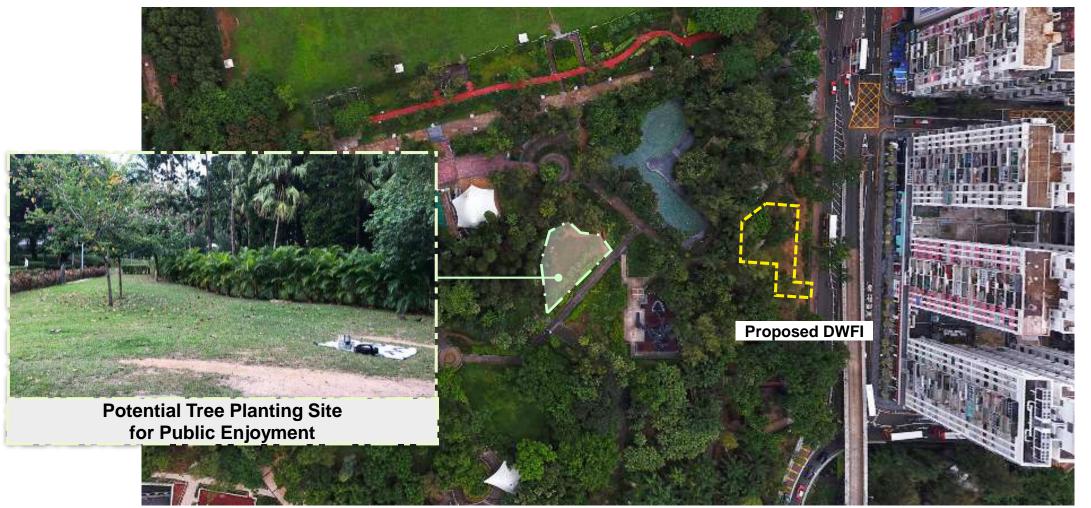


Building Layout Consideration(Tree Preservation & Future Development)





Potential Additional Tree Planting Location (Public Enjoyment)







Public Enjoyment

 Proposed public engagement activity (flowering tree planting) in Victoria Park (under discussion with LCSD)



Public Consultation & Implementation Programme

- Development, Planning and Transport Committee of WCDC on 12 July 2022
- Consulting Local Area Committee in Nov 2022
- Works to be commenced in 2023 at earliest
- Estimated Construction Duration: 4 years

	Tentative Schedule
Commencement of Agreement	Jun 2020
DC Consultation	12 Jul 2022
Local Area Committee Consultation	Nov 2022
Harbourfront Commission	1 December 2022
Contract commencement	2023
Commissioning	2027



Shau Kei Wan DWFI

Aerial View





Location CHARRY BAY Aldrich Bay Tai On Street **Box Culvert** SHALL KET WAN (BC1) Intercepting Pipe ALDRICH BAY PROMENADE ALDRICH BAY PARK Oi Yin Street **Box Culvert** Island Eastern Corridor (BC3) Oi Tak Street **Box Culvert** (BC2)

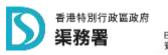
Legend:

Proposed Flow Intercepting Device

Proposed Filtering Station

Harbourfront Areas under Task
Force on Harbour Developments on
Hong Kong Island

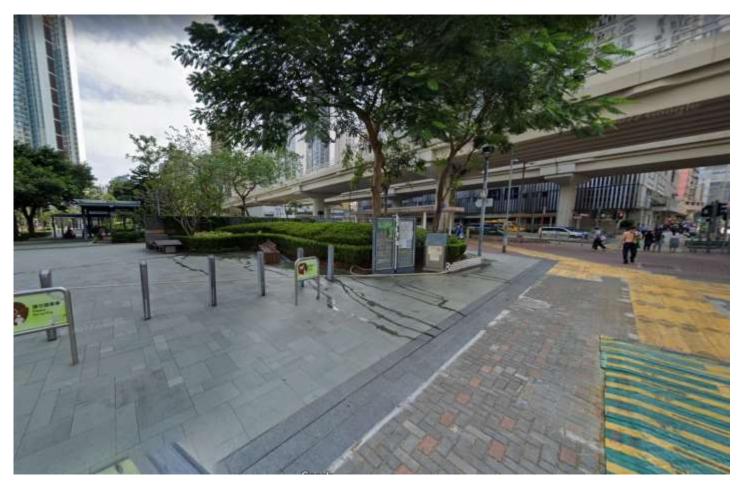
Oi Lai Street Box Culvert (BC4)



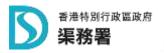


FID at Tai On Street Box Culvert (BC1)

Existing Site View





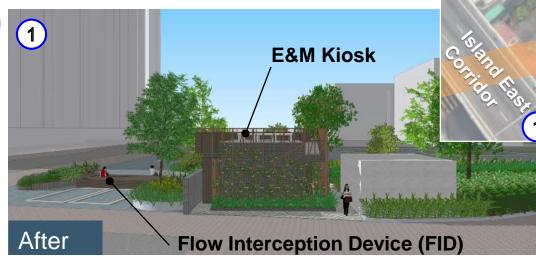




FID at Tai On Street Box Culvert (BC1)

Conceptual Design







Flow Interception Device (FID)



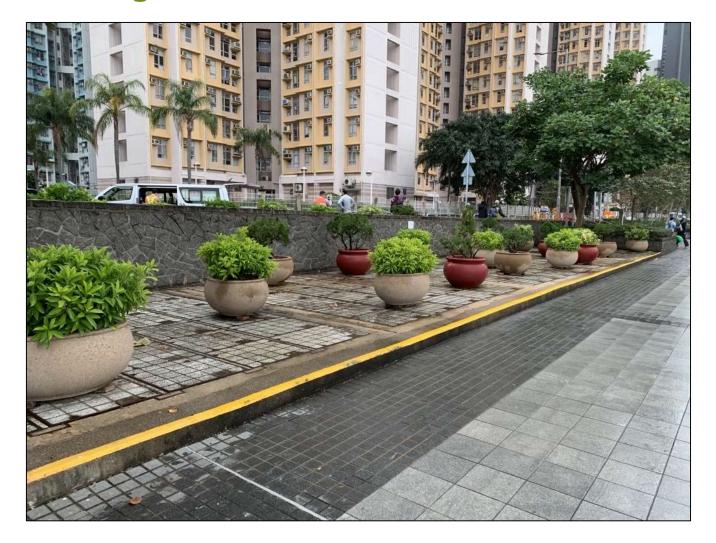


Draft

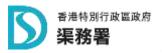
Tai On Street
Box Culvert (BC1)

FID at Oi Yin Street Box Culvert (BC3)

Existing Site View





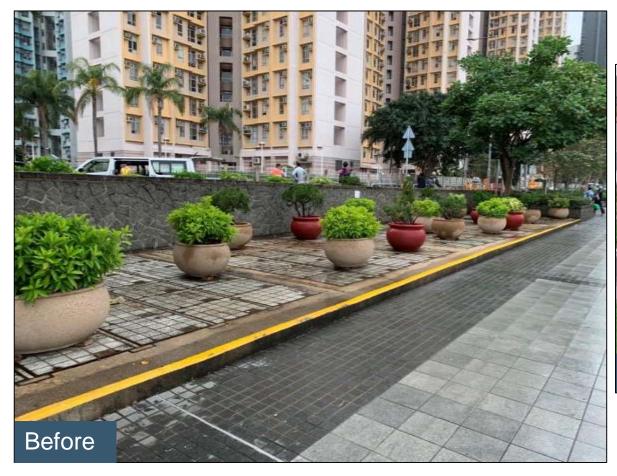


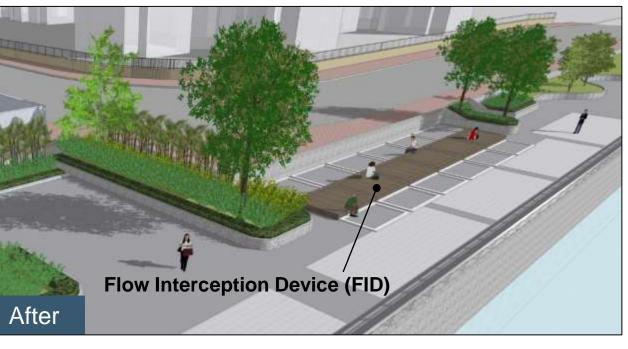


FID at Oi Yin Street Box Culvert (BC3)

Conceptual Design

Draft



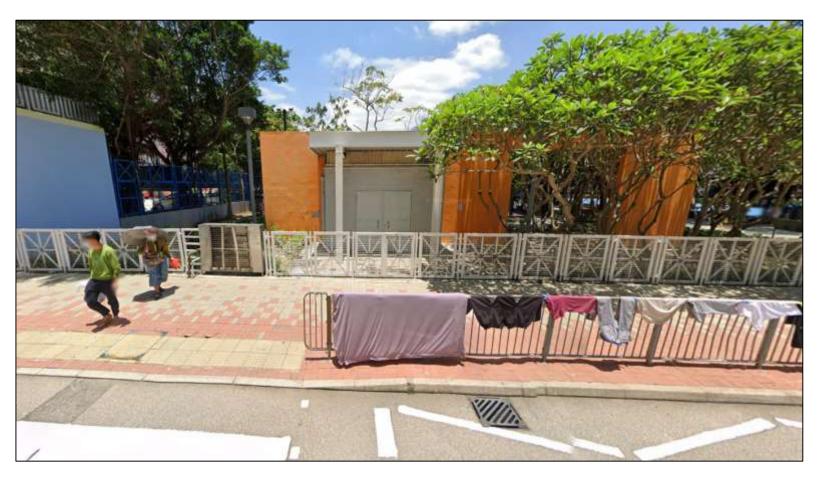


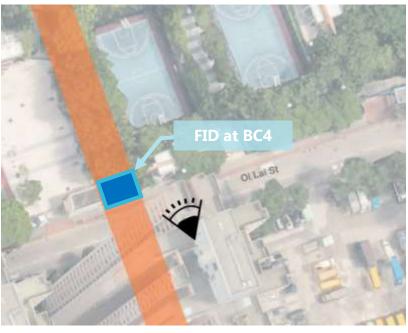




FID at Oi Lai Street Box Culvert (BC4)

Existing Site View









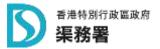
FID at Oi Lai Street Box Culvert (BC4)

Conceptual Design

Draft









Public Consultation & Implementation Programme

- Works to be commenced in 2024 at earliest
- Estimated Construction Duration: 4 years

	Tentative Schedule
Commencement of Agreement	Mar 2021
Harbourfront Commission	1 December 2022
DC Consultation	Q1 2023
Contract commencement	2024
Commissioning	2028



Thank you