

Contract No. DC/2020/02

Construction of San Shek Wan Sewage Treatment Works,  
Associated Submarine Outfall and Pui O Sewerage Works



Submission No.: KLCWJV/1027/1763-2022  
Submission Title: **Silt Curtain Deployment Plan (SCDP) (Rev.11)**  
Submission Date: 28 April 2022

| Item No. | Ref.                                                         | Comments                                                                                                                                                                                                                                                                 | Contractor's Response                                                                                                                                                                                                   |
|----------|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2.a.     | Comment from EPD (Ref.: ( ) in Ax (13) to EP 2/N9/F/50 Pt.7) | S.2 –<br>The Contractor had clarified that no dredging work would be carried out for the construction and installation of precast emergency outfall (Stage 4). Please supplement the purpose of deployment of silt curtain for the works at Stage 4 in relevant section. | For stage 4, levelling stone will be laid on the seabed and the precast outfall structure will be constructed on top of the levelling stone. Silt curtain should be deployed to prevent stirring-up of seabed material. |
| b.       |                                                              | S.2 and Appendix A –<br>Please update the tentative commencement date of marine works. Please also amend the title of construction programme chart as “Tentative Construction Programme of DC/2020/02”.                                                                  | Updated and amended.                                                                                                                                                                                                    |

Contract No:  
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# Silt Curtain Deployment Plan

Document No: KLCWJV/1027/1763-2022  
Revision: 11  
Date: 28 Apr 2022



## Revision History

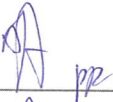
| Revision No.            | Reason for Amendment                                                                              | Amendment                     | Prepared By  | Date       |
|-------------------------|---------------------------------------------------------------------------------------------------|-------------------------------|--------------|------------|
| 00<br>First Submission  | N/A                                                                                               | N/A                           | Shirley Kong | 26/10/2021 |
| 01<br>Second Submission | Comments from Binnies, dated 5 November 2021 (Ref.: 178711/DC/2020/02/C80/300-B00433)             | Refer to previous submission. | Shirley Kong | 10/11/2021 |
| 02<br>Third Submission  | Comments from IEC & ET, dated 10 & 11 November 2021 (via email)                                   | Refer to previous email.      | Shirley Kong | 12/11/2021 |
| 03<br>Forth Submission  | Comments from IEC, dated 16 November 2021 (via email and meeting)                                 | Refer to previous email.      | Shirley Kong | 18/11/2021 |
| 04<br>Fifth Submission  | Comments from ET, dated 31 December 2021 (via email) & Comments from EPD, dated 29 December 2021. | Refer to R-t-C table.         | Shirley Kong | 13/1/2022  |
| 05<br>Sixth Submission  | Comments from ET, dated 21 January 2022 (via email)                                               | Refer to R-t-C table.         | Shirley Kong | 24/1/2022  |

|                           |                                                                                       |                       |              |           |
|---------------------------|---------------------------------------------------------------------------------------|-----------------------|--------------|-----------|
| 06<br>Seventh Submission  | Comments from ET, dated 28 January 2022 (via email)                                   | Refer to R-t-C table. | Shirley Kong | 31/1/2022 |
| 07<br>Eighth Submission   | Comments from EPD, dated 11 March 2022<br>(Ref.: ( ) in Ax (13) to EP 2/N9/F/50 Pt.7) | Refer to R-t-C table. | Shirley Kong | 22/3/2022 |
| 08<br>Ninth Submission    | Comments from IEC, dated 31 March 2022                                                | Refer to R-t-C table. | Shirley Kong | 1/4/2022  |
| 09<br>Tenth Submission    | Comments from IEC, dated 1 April 2022                                                 | Refer to R-t-C table. | Shirley Kong | 2/4/2022  |
| 10<br>Eleventh Submission | Comments from ET, dated 5 April 2022                                                  | Refer to R-t-C table. | Shirley Kong | 6/4/2022  |
| 11<br>Twelfth Submission  | Comments from EPD, dated 20 Apr 2022<br>(Ref.: ( ) in Ax (13) to EP 2/N9/F/50 Pt.8)   | Refer to R-t-C table. | Shirley Kong | 28/4/2022 |

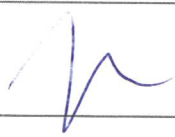
# Silt Curtain Deployment Plan

Document No: KLCWJV/1027/1763-2021  
Revision: 11  
Date: 28 Apr 2022

Checked by :

| Position   | Signature                                                                           | Name         | Date      |
|------------|-------------------------------------------------------------------------------------|--------------|-----------|
| Site Agent |  | Charles Tse  | 28/4/2022 |
| Sub Agent  |  | Sak Wai Ming | 28/4/2022 |
|            |                                                                                     |              |           |

Prepared by:

|                       |                                                                                     |              |           |
|-----------------------|-------------------------------------------------------------------------------------|--------------|-----------|
| Environmental Officer |  | Shirley Kong | 28/4/2022 |
|-----------------------|-------------------------------------------------------------------------------------|--------------|-----------|

## Table of Content

|            |                                                       |          |
|------------|-------------------------------------------------------|----------|
| <b>1.0</b> | <b>General .....</b>                                  | <b>1</b> |
| <b>2.0</b> | <b>Scope of Works and Construction Programme.....</b> | <b>1</b> |
| <b>3.0</b> | <b>Silt Curtain Design .....</b>                      | <b>2</b> |
| <b>4.0</b> | <b>Silt Curtain Installation .....</b>                | <b>4</b> |
| <b>5.0</b> | <b>Silt Curtain Maintenance.....</b>                  | <b>5</b> |
| <b>6.0</b> | <b>Silt Curtain Removal/ Repositioning.....</b>       | <b>6</b> |

## Appendices

|               |                                                                                                |
|---------------|------------------------------------------------------------------------------------------------|
| Appendix A –  | Tentative Construction Programme of DC/2020/02                                                 |
| Appendix B –  | Typical Details of Proposed Silt Curtain                                                       |
| Appendix C1 – | Specification of Geotextile for Silt Curtain                                                   |
| Appendix C2 – | Typical Detail of Hanging Type Silt Curtain                                                    |
| Appendix C3 – | Installation for Silt Curtain                                                                  |
| Appendix D –  | Silt Curtain Inspection Checklist                                                              |
| Appendix E1 – | South Lantau Sewerage Works - Master Layout Plan & Site Layout for<br>Overview of Marine Works |
| Appendix E2 – | Site Layout for Marine Works and Silt Curtain                                                  |
| Appendix F –  | Implementation Schedule of the Major Environmental Mitigation<br>Measures                      |

# 1. General

## 1.1 Objective

This Silt Curtain Deployment Plan (SCDP) prepared by the Kwan Lee – Chun Wo Joint Venture (JV). Pursuant to Environmental Permit EP-538/2017 Part C Clause 2.13, the SCDP shall be deposited to the Environmental Protection Department no later than 3 months before commencement of marine works involving deployment of silt curtain.

Therefore, prior to the commencement of marine works as well as the whole construction period with marine works in the sea under Contract No. DC/2020/02 - Construction of San Shek Wan Sewage Treatment Works, Associated Submarine Outfall and Pui O Sewerage Works (the Project). JV will be responsible for the installation, operation, maintenance and removal of the silt curtain throughout the whole construction period with marine works. The silt curtain act as a measure to maintain the water quality in the vicinity of the marine works.

This deployment plan describes in detail the design, method of installation, operation and maintenance of the proposed silt curtain.

## 1.2 Construction Plants

Plant and equipment to be used for the proposed silt curtain deployment include, but not limited to, the followings:

- |                   |       |
|-------------------|-------|
| - Derrick Lighter | 1 no. |
| - Derrick barge   | 1 no. |
| - Split Hopper    | 1 no. |
| - Grab Dredger    | 1 no. |

Adequate resources shall be deployed to suit the construction programme.

# 2. Scope of Works and Construction Programme

The works to be executed under this contract involves:

- Construction of a secondary sewage treatment works (STW) at San Shek Wan in South Lantau;
- Construction of a sewage pumping station (SPS) at Pui O;
- Construction of about 1.4 kilometres (km) of submarine outfall with a diameter of 350 millimetres (mm) for the disposal of treated effluent from the STW at San Shek Wan;
- Construction of about 4.1 km of gravity sewers with diameters ranging from 150 mm to 375 mm along South Lantau Road and Chi Ma Wan Road and at Pui O Lo Uk;
- Construction of about 1.2 km of twin rising mains with a diameter of 200 mm along South Lantau Road and Chi Ma Wan Road; and
- Ancillary works

To construction the submarine outfall, marine works are inevitable.

There are total 4 stage of works in the overall project, **Appendix E1** provided the overview showing the works area of different stage of marine works.

1. Marine supporting platform (Stage 1)
2. Horizontal Directional Drilling (HDD) for construction of submarine outfall (Stage 2)
3. Dredging for construction of diffuser (Stage 3)
4. Construction and installation of precast emergency outfall (Stage 4)

The tentative commencement date of marine works is 19 April 2022. During the erection of supporting platform and HDD submarine outfall construction works, no dredging work / dumping of marine sediment for stage 1, 2 and 4. The mud and slurry will be circulated in the drilling procedure and will not be discharged drilling fluid to the sea. There are very few amount of mud and slurry will be dried by mixing the cement and disposed to public fill facilities according to Waste Management Plan. For stage 4, levelling stone will laid on the seabed and the precast outfall structure will be constructed on top of the levelling stone.

The dredging will only be conducted in stage 3. Seabed materials shall dispose from stage 3, dredging work is scheduled to commence in June 2023. The licence of dumping at sea will be apply later.

In general, silt curtain will be deployed during whole period of marine works. A brief programme showing the tentative commencement and completion dates of the major marine works are enclosed in **Appendix A**.

### 3. Silt Curtain Design

General type silt curtain consists of a layer of geotextile (made by Woven Polyester PET) mounted on the High density Polystyrene float in the water surface and extended to the seabed level secured by steel chain ballast. The silt curtain will surround the relevant working area and location of silt curtain as shown in **Appendix B** and **Appendix E2**. The panels can be assembled and connected by rope through a series of grommet and shackles. In between overlap sits the winching rope to adjust curtain depth whenever necessary. Typical details of proposed silt curtain is illustrated in Figure 1.

As shown in **Appendix B**, the erection of supporting platform are constructed at the sea side for stage 1. The six steel pipe piling will be erected and platform will be constructed. Silt curtain will be deployed four meters away from the platform for 3 sides and approximated thirty-six meters away from the platform in 1 side of supporting platform and HDD. The silt curtain in stage 1 will be keep and will surround the pilot hole exit area to prevent the suspension of sediment during the HDD works for stage 2. Silt curtains will also be deployed during dredging by surrounding for ten meters offset to reduce the elevation of suspended solids to nearby sensitive receivers for stage 3. The current speeds around the dredging location (near outfall) are less than 0.5 m/s. Closed grab dredgers will be used to reduce the potential for leakage of sediments. Moreover, the silt curtain will be deployed by surrounding for five meters away from the construction area of emergency outfall.

Sufficient length of geotextile shall be allowed such that the silt curtain can be extended from the water surface to the seabed during high tide condition. The typical section of the proposed silt curtain is attached in **Appendix B** and the location of silt curtain is indicated in site layout attached in **Appendix E2**.

Product catalogue with specification and job reference of the proposed geotextile for the silt curtain is attached in **Appendix C1**.

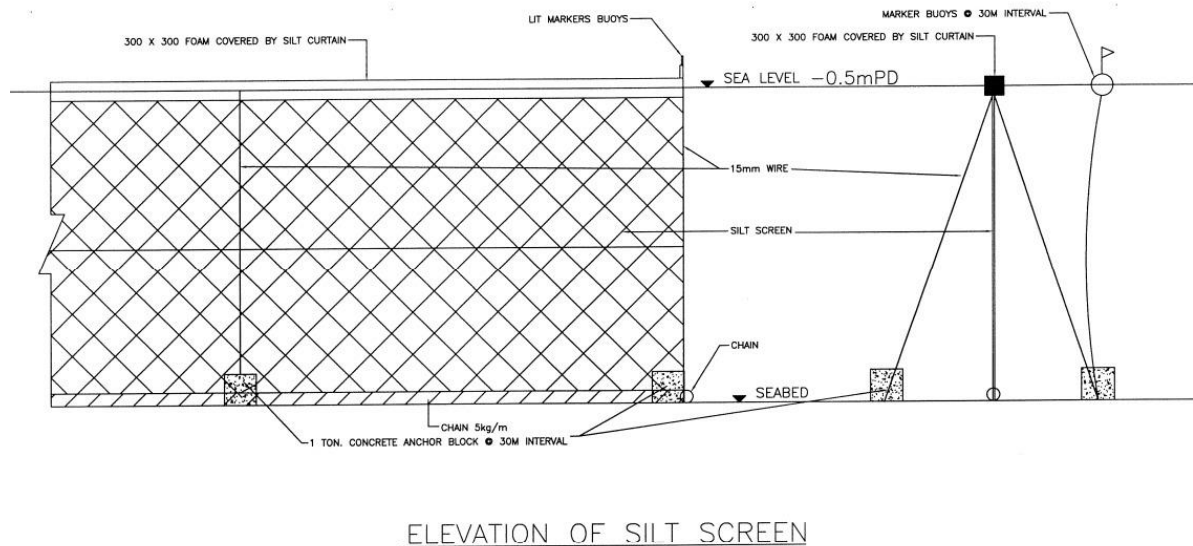


Figure 1 Typical details of proposed silt curtain

## 4. Silt Curtain Installation

JV will install the silt curtain as stated below:

1. Prepare the geotextile with size suitable for the specific size on the Derrick Lighter or Barge, height of slit curtain is depending on the seabed level measured by hydrographic survey. JV will conduct regular checking and adjustment on the depth of slit curtain toe extension with respect to tidal effect to minimize disturbance of seabed due to sweeping of silt curtain toe bottom on the seabed and maintain its integrity from damage by seabed rocky surface which could induce adverse water quality impact.
2. Tie the top end of the geotextile and connected to the float, the bottom end with the steel chain ballast.
3. Row up the top part of the silt curtain to the specific length suitable for the lift up distance of the Derrick Lighter.
4. Lift down the silt curtain with steel chain ballast into sea and sit on seabed, make sure the bottom part of the silt curtain is surrounding the working area. Fix the silt curtain location by using one tonne tonbag or concrete block anchor.
5. Workers with life jacket then tie the geotextile.

Refer to **Appendix C2** and **Appendix C3** for installation detail of silt curtain.

JV will responsible for re-positioning of the silt curtains to suit the actual site conditions and fit for purpose.

## 5. Silt Curtain Maintenance

In order to maintain the position of the silt curtain especially at location with strong current, spot check by JV's on board supervisor will be carried out for each silt curtain before the works every day.

JV will also conduct and submit weekly inspection with the *Supervisor* of client representative throughout the period of marine works to the *Project Manager* or *Supervisor* to demonstrate that the silt curtains are in good working conditions.

Diver will dive and go under water to inspect the condition of silt curtain. And diver inspection would be carried out once per every three months or if necessary such as after the adverse weather and any unforeseeable condition which might damage the silt curtain physical condition to ensure the bottom of the silt curtain is well placed on the seabed level and no damage of silt curtain under water. At area with low water level that diver is not able to dive, visual inspection will be carried out to inspect physical condition of the silt curtain.

All checklists will be kept on site for record purpose. Refer **Appendix D** for the sample of Silt Curtain Inspection Checklist.

For the tentative arrangement of silt curtain under adverse weather, the silt curtain will be removed temporarily during adverse weather and related works will be suspended immediately until the silt curtain is installed again.

The works cause no visible foam, oil, grease, litter or other objectionable matter to be present in the water within and adjacent to the works area. Refuse around the silt curtains will be collected at regular intervals on a daily basis so that water behind the silt curtains will be kept free from floating debris.

Sufficient spare geotextile will be kept on site for replacing of damaged silt curtains. The spare geotextile shall be kept in place to avoid direct contact with water and sunlight.

The works will be suspended once damaged geotextile is observed. Spare geotextile will be installed and replace the damaged geotextile. Refer to Section 4 for installation procedure.



## **6. Silt Curtain Removal/ Repositioning**

Removal of silt curtain shall be carried out by derrick lighter after completion of marine works in order to reduce negative impact on water quality during the working period of whole period of marine works.

Actions upon repositioning of silt curtain will be same as deployment of a new silt curtain. The condition of the silt curtain will be jointly inspected with the Supervisor before relocation to the new position. The JV will responsible to revise the Silt Curtain Deployment Plan if there is any amendments or changes from the original design in separate application.

DC/2020/02

Construction of San Shek Wan Sewage Treatment Works,  
Associated Submarine Outfall and Pui O Sewerage Works  
Silt Curtain Deployment Plan

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Appendix A – Tentative Construction Programme of DC/2020/02

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Please see Page 11-13  
for the marine works.



Contract No. DC/2020/02  
Construction of San Shek Wan Sewage Treatment Works,  
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| Activity ID                                                                                | Activity Name                                                                                                           | Original Duration | Start       | Finish      | Late Start | Late Finish | Baseline Start | Baseline Finish | Total Float | Time Risk Allowance | 2021 |    |    | 2022 |    |    | 2023 |   |    | 2024 |    |    | 2025 |    |    | 2026 |    |    |    |    |   |    |  |  |
|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|-------------|------------|-------------|----------------|-----------------|-------------|---------------------|------|----|----|------|----|----|------|---|----|------|----|----|------|----|----|------|----|----|----|----|---|----|--|--|
|                                                                                            |                                                                                                                         |                   |             |             |            |             |                |                 |             |                     | Q2   | Q3 | Q4 | Q1   | Q2 | Q3 | Q4   | Q | Q2 | Q3   | Q4 | Q1 | Q2   | Q3 | Q4 | Q    | Q2 | Q3 | Q4 | Q1 | Q | Q3 |  |  |
| Monthly Programme for Mar 2022 (for EPD)                                                   |                                                                                                                         | 1556              | 19-Mar-21 A | 29-Aug-26   | 19-Mar-21  | 29-Aug-26   | 01-Jun-21      | 29-Aug-26       | 0           |                     |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| Project Contractual Dates                                                                  |                                                                                                                         | 1556              | 19-Mar-21 A | 29-Aug-26   | 27-Jun-21  | 28-Mar-26   | 01-Jun-21      | 29-Aug-26       | -124        |                     |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| Contractual Dates                                                                          |                                                                                                                         | 11                | 19-Mar-21 A | 30-Mar-21 A | 27-Jun-21  | 27-Jun-21   | 01-Jun-21      | 12-Jun-21       |             |                     |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| CD-1000                                                                                    | Contract Date                                                                                                           | 0                 | 19-Mar-21 A |             | 27-Jun-21  |             | 01-Jun-21      |                 |             | 0                   |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| CD-1010                                                                                    | Starting Date                                                                                                           | 0                 | 30-Mar-21 A |             | 27-Jun-21  |             | 12-Jun-21      |                 |             | 0                   |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| Access Date of Each Portion                                                                |                                                                                                                         | 278               | 30-Apr-21 A | 01-Apr-22   | 27-Jun-21  | 28-Mar-26   | 27-Jun-21      | 01-Apr-22       | 1458        |                     |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| CD-2000                                                                                    | Contract Access date of Portion A, B1, C1, D1, D3,E1, E2, E3 and W1 (90 days)                                           | 0                 | 01-Apr-22*  |             | 27-Jun-21  |             | 01-Apr-22      |                 | -278        | 0                   |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| CD-2010                                                                                    | Contract Access date of Portion B2, C2, D2 and D4 (210 days)                                                            | 0                 | 04-Oct-21 A |             | 07-Feb-22  |             | 01-Nov-21      |                 |             | 0                   |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| CD-2020                                                                                    | Access date of Portion A and B1 (90 days)                                                                               | 0                 | 30-Apr-21 A |             | 22-Nov-21  |             | 27-Jun-21      |                 |             | 0                   |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| CD-2030                                                                                    | Access date of Works Area W1 (90 days)                                                                                  | 0                 | 17-May-21 A |             | 28-Mar-26  |             | 27-Jun-21      |                 |             | 0                   |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| CD-2040                                                                                    | Access date of Works Area C1 & D3 (90days) and B2, C2, & D2 (210 days)                                                  | 0                 | 30-Jul-21 A |             | 28-Mar-26  |             | 27-Jun-21      |                 |             | 0                   |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| CD-2050                                                                                    | Simplified Temporary Land Allocation (STLA) access date of Works Area D1 & E1 (90days)                                  | 0                 | 10-Aug-21 A |             | 28-Mar-26  |             | 27-Jun-21      |                 |             | 0                   |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| Sectional Completion                                                                       |                                                                                                                         | 1055              | 08-May-23   | 28-Mar-26   | 08-May-23  | 28-Mar-26   | 08-May-23      | 28-Mar-26       | 0           |                     |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| SC-1000                                                                                    | Section 1 The Trunk Sewers and Rising Mains in Portion A and B1 & B2 in Lo Uk Tsuen (770 days)                          | 0                 |             | 08-May-23*  |            | 08-May-23   |                | 08-May-23       | 0           | 0                   |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| SC-1010                                                                                    | Section 2 Foundation, Substructure and Superstructure of POSPS, Trunk Sewers and Rising Mains in D1& D2 (770 days)      | 0                 |             | 08-May-23*  |            | 08-May-23   |                | 08-May-23       | 0           | 0                   |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| SC-1020                                                                                    | Section 3 Whole of the works excluding the works in sections 1 and 2(1825 days)                                         | 0                 |             | 28-Mar-26*  |            | 28-Mar-26   |                | 28-Mar-26       | 0           | 0                   |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| Planned Sectional Completion Date                                                          |                                                                                                                         | 1091              | 03-Sep-23   | 29-Aug-26   | 08-May-23  | 28-Mar-26   | 03-Sep-23      | 29-Aug-26       | -154        |                     |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| Sectional Completion Dates                                                                 |                                                                                                                         | 1091              | 03-Sep-23   | 29-Aug-26   | 08-May-23  | 28-Mar-26   | 03-Sep-23      | 29-Aug-26       | -154        |                     |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| PC-1000                                                                                    | Planned Section 1 completion date                                                                                       | 0                 |             | 11-Oct-23   |            | 08-May-23   |                | 11-Oct-23       | -156        | 0                   |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| PC-1010                                                                                    | Planned Section 2 completion date                                                                                       | 0                 |             | 03-Sep-23   |            | 08-May-23   |                | 03-Sep-23       | -118        | 0                   |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| PC-1020                                                                                    | Planned Section 3 completion date                                                                                       | 0                 |             | 29-Aug-26   |            | 28-Mar-26   |                | 29-Aug-26       | -154        | 0                   |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| NCE                                                                                        |                                                                                                                         | 255               | 27-Jun-21 A | 30-Apr-22   | 27-Oct-21  | 02-Mar-22   | 01-Jul-21      | 12-May-22       | -48         |                     |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| NCE-001                                                                                    | No fully access to Portion D1 (90 days) [PGLA on 4 Oct 2021]                                                            | 99                | 27-Jun-21 A | 03-Oct-21 A | 03-Dec-21  | 03-Dec-21   | 01-Jul-21      | 07-Oct-21       |             | 0                   |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| NCE-002                                                                                    | No fully access to Portion E1 on access date (90 days) [PGLA on 12 Jan 2022]                                            | 199               | 27-Jun-21 A | 11-Jan-22 A | 01-Nov-21  | 01-Nov-21   | 01-Jul-21      | 15-Jan-22       |             | 0                   |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| NCE-003                                                                                    | No fully access to Portion E2 and E3 on access date (90 days)                                                           | 219               | 27-Jun-21 A | 01-Apr-22   | 31-Oct-21  | 31-Oct-21   | 01-Jul-21      | 04-Feb-22       | -151        | 0                   |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| NCE-008a                                                                                   | Delay and Disruption of Works due to Inclement Weather for Oct 2021 (8-9 Oct 2021)                                      | 2                 | 08-Oct-21 A | 09-Oct-21 A | 01-Nov-21  | 01-Nov-21   | 01-Jul-21      | 02-Jul-21       |             | 0                   |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| NCE-008b                                                                                   | Delay and Disruption of Works due to Inclement Weather for Oct 2021 (12-13 Oct 2021)                                    | 2                 | 12-Oct-21 A | 13-Oct-21 A | 01-Nov-21  | 01-Nov-21   | 01-Jul-21      | 02-Jul-21       |             | 0                   |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| NCE-010                                                                                    | Extra time for GI works for BH-5 (50m dep. on 13/11 and 100m dep. on 22/11) due to unforeseen deep rockhead in POSPS    | 9                 | 14-Nov-21 A | 22-Nov-21 A | 20-Dec-21  | 20-Dec-21   | 01-Jul-21      | 09-Jul-21       |             | 0                   |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| NCE-011                                                                                    | Delay and Disruption of Works due to Inclement Weather for Feb 2022 (21-23 Feb 2022)                                    | 3                 | 21-Feb-22 A | 23-Feb-22 A | 01-Nov-21  | 01-Nov-21   | 01-Jul-21      | 03-Jul-21       |             | 0                   |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| NCE-012a                                                                                   | Delay and Disruption of Works due to Inclement Weather for Mar 2022 (23-26 Mar 2022)                                    | 3                 | 23-Mar-22 A | 26-Mar-22 A | 01-Nov-21  | 01-Nov-21   | 01-Jul-21      | 03-Jul-21       |             | 0                   |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| NCE-012a10                                                                                 | Delay and Disruption of Works due to Inclement Weather for Mar 2022 (28 Mar 2022)                                       | 3                 | 28-Mar-22 A | 28-Mar-22 A | 01-Nov-21  | 01-Nov-21   | 01-Jul-21      | 03-Jul-21       |             | 0                   |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| NCE for PM of 12 nos inspection pits at South Lantau Road, Lo Uk Tsuen and Chi Ma Wan Road |                                                                                                                         | 203               | 29-Jun-21 A | 30-Apr-22   | 27-Oct-21  | 02-Mar-22   | 01-Sep-21      | 12-May-22       | -48         |                     |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| NCE-006a                                                                                   | Preparation and Issurance of PMI for 12 nos Inspection pits at South Lantau Road, Lo Uk Tsuen and Chi Ma Wan Road by PM | 7                 | 29-Jun-21 A | 11-Aug-21 A | 27-Oct-21  | 27-Oct-21   | 01-Sep-21      | 07-Sep-21       |             | 0                   |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| NCE-006b                                                                                   | Received PMI for 12 nos Inspection pits at South Lantau Road, Lo Uk Tsuen and Chi Ma                                    | 0                 | 11-Aug-21 A | 11-Aug-21 A | 27-Oct-21  | 27-Oct-21   | 08-Sep-21      | 08-Sep-21       |             | 0                   |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| NCE-006c                                                                                   | JV prepared XP plans                                                                                                    | 7                 | 11-Aug-21 A | 18-Aug-21 A | 27-Oct-21  | 27-Oct-21   | 08-Sep-21      | 14-Sep-21       |             | 0                   |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| NCE-006d                                                                                   | JV revised XP plans as per PMs comment                                                                                  | 7                 | 18-Aug-21 A | 25-Aug-21 A | 27-Oct-21  | 27-Oct-21   | 15-Sep-21      | 21-Sep-21       |             | 0                   |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| NCE-006e                                                                                   | Confirmation and circulation by PM for XP and TTA application                                                           | 7                 | 25-Aug-21 A | 03-Sep-21 A | 27-Oct-21  | 27-Oct-21   | 22-Sep-21      | 28-Sep-21       |             | 0                   |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| NCE-006f                                                                                   | Revision & accept XP ID 1300556 application and TTA for South Lantau Road                                               | 90                | 04-Sep-21 A | 17-Jan-22 A | 27-Oct-21  | 27-Oct-21   | 07-Oct-21      | 04-Jan-22       |             | 0                   |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| NCE-006f10                                                                                 | Revision & accept XP ID 1300565 application and TTA for Chi Ma Wan Road                                                 | 90                | 04-Sep-21 A | 19-Jan-22 A | 22-Nov-21  | 22-Nov-21   | 07-Oct-21      | 04-Jan-22       |             | 0                   |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| NCE-006g                                                                                   | Trai run and Inspection pits works at South Lantau Road                                                                 | 58                | 18-Feb-22 A | 30-Apr-22   | 27-Oct-21  | 20-Nov-21   | 01-Mar-22      | 12-May-22       | -129        | 0                   |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| NCE-006h                                                                                   | Trial run and Inspection pits works at Chi Ma Wan Road                                                                  | 38                | 16-Feb-22 A | 21-Mar-22 A | 22-Nov-21  | 22-Nov-21   | 01-Mar-22      | 14-Apr-22       |             | 0                   |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| NCE-006i                                                                                   | Inspection pits works at Lo Uk Tsuen ( VTP1 & VTP2)                                                                     | 12                | 29-Sep-21 A | 05-Oct-21 A | 02-Mar-22  | 02-Mar-22   | 02-Oct-21      | 16-Oct-21       |             | 0                   |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| Preliminary Works                                                                          |                                                                                                                         | 675               | 19-Mar-21 A | 31-Mar-24   | 19-Mar-21  | 29-Aug-26   | 01-Jun-21      | 07-Sep-23       | 716         |                     |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| PW-1000                                                                                    | Preliminary works                                                                                                       | 0                 | 19-Mar-21 A | 02-Jul-23   | 19-Mar-21  | 25-Oct-23   | 01-Jun-21      | 01-Jun-21       | 115         | 0                   |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| Subletting of Major Subcontract Package                                                    |                                                                                                                         | 724               | 19-Mar-21 A | 25-May-23   | 01-Nov-21  | 28-Mar-26   | 01-Jun-21      | 25-May-23       | 1038        |                     |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| SUB-1000                                                                                   | Prepare, submit & accept subletting procedure                                                                           | 28                | 30-Mar-21 A | 15-Apr-21 A | 01-Nov-21  | 01-Nov-21   | 01-Jun-21      | 28-Jun-21       |             | 0                   |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| SUB-1020                                                                                   | Sublet early start works (site clearance, formation, tree felling and trial pit)                                        | 30                | 17-May-21 A | 08-Jul-21 A | 01-Nov-21  | 01-Nov-21   | 01-Jun-21      | 30-Jun-21       |             | 0                   |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| SUB-1025                                                                                   | Sublet GI works                                                                                                         | 35                | 17-May-21 A | 13-Aug-21 A | 03-Dec-21  | 03-Dec-21   | 01-Jun-21      | 05-Jul-21       |             | 0                   |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |
| SUB-1028                                                                                   | Sublet village sewerage                                                                                                 | 40                | 24-May-21 A | 13-Aug-21 A | 22-Nov-21  | 22-Nov-21   | 01-Jun-21      | 10-Jul-21       |             | 0                   |      |    |    |      |    |    |      |   |    |      |    |    |      |    |    |      |    |    |    |    |   |    |  |  |

|                                                                                     |                |                                                                                     |                         |                                                                                     |                   |
|-------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------|-------------------------|-------------------------------------------------------------------------------------|-------------------|
|  | Summary        |  | Critical Remaining Work |  | Finish Constraint |
|  | Actual LOE     |  | Milestone               |  | No Predecessors   |
|  | Remaining LOE  |  | Crit Milestone          |  | No Successors     |
|  | Actual Work    |  | Actual Milestone        |                                                                                     |                   |
|  | Remaining Work |  | Start Constraint        |                                                                                     |                   |

**Project ID: MP202203**  
Tentative Construction Programme of DC/2020/02

**Data Date:** 31-Mar-22  
**Printed:** 27-Apr-22 16:33  
**Layout:** SSW- 3MRP202203  
**TASK filter:** All Activities

| Date      | Revision | Checked | Approved |
|-----------|----------|---------|----------|
| 31-Mar-22 | r0       | JW      | CT       |
|           |          |         |          |
|           |          |         |          |
|           |          |         |          |



Contract No. DC/2020/02  
Construction of San Shek Wan Sewage Treatment Works,  
Associated Submarine Outfall and Pui O Sewerage Works



| Activity ID | Activity Name | Original Duration                 | Start | Finish      | Late Start  | Late Finish | Baseline Start | Baseline Finish | Total Float | Time Risk Allowance | 2021 |    |    |    | 2022 |    |    |    | 2023 |    |    |    | 2024 |    |    |    | 2025 |    |    |    | 2026 |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|             |               |                                   |       |             |             |             |                |                 |             |                     | Q2   | Q3 | Q4 | Q1 | Q2   | Q3 | Q4 | Q1 | Q2   | Q3 | Q4 | Q1 | Q2   | Q3 | Q4 | Q1 | Q2   | Q3 | Q4 | Q1 | Q2   | Q3 | Q4 | Q1 | Q2 | Q3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|             | SUB-1030      | Sublet drainage and duct for road | 35    | 06-Sep-21 A | 17-Dec-21 A | 22-Nov-21   | 22-Nov-21      | 01-Oct-21       | 04-Nov-21   |                     | 0    |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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|  | Summary        |  | Critical Remaining Work |  | Finish Constraint |
|  | Actual LOE     |  | Milestone               |  | No Predecessors   |
|  | Remaining LOE  |  | Crit Milestone          |  | No Successors     |
|  | Actual Work    |  | Actual Milestone        |  |                   |
|  | Remaining Work |  | Start Constraint        |  |                   |

Project ID: MP20220





Contract No. DC/2020/02  
Construction of San Shek Wan Sewage Treatment Works,  
Associated Submarine Outfall and Pui O Sewerage Works



| Activity ID | Activity Name                                                                            | Original Duration | Start       | Finish      | Late Start | Late Finish | Baseline Start | Baseline Finish | Total Float | Time Risk Allowance | 2021      |           |             | 2022                                                                            |    |    |    | 2023 |    |    |    | 2024 |    |    |    | 2025 |    |    |    | 2026 |    |    |
|-------------|------------------------------------------------------------------------------------------|-------------------|-------------|-------------|------------|-------------|----------------|-----------------|-------------|---------------------|-----------|-----------|-------------|---------------------------------------------------------------------------------|----|----|----|------|----|----|----|------|----|----|----|------|----|----|----|------|----|----|
|             |                                                                                          |                   |             |             |            |             |                |                 |             |                     | Q2        | Q3        | Q4          | Q1                                                                              | Q2 | Q3 | Q4 | Q    | Q2 | Q3 | Q4 | Q    | Q2 | Q3 | Q4 | Q    | Q2 | Q3 | Q4 | Q    | Q2 | Q3 |
|             | ELS temporary works designs for village and road sewage                                  | 128               | 19-Jul-21 A | 21-Jan-22 A | 22-Nov-21  | 22-Nov-21   | 01-Aug-21      | 06-Dec-21       |             |                     | 21-Aug-21 | 21-Sep-21 | 21-Oct-21   | 21-Jan-22 A, ELS temporary works designs for village and road sewage            |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| SU-1090     | Prepare and submit of ELS temporary works designs for village and road sewage            | 36                | 19-Jul-21 A | 07-Oct-21 A | 22-Nov-21  | 22-Nov-21   | 01-Aug-21      | 05-Sep-21       |             | 0                   | 21-Aug-21 | 21-Sep-21 | 21-Oct-21   | Prepare and submit of ELS temporary works designs for village and road sewage   |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| SU-2220     | Approval of ELS temporary works designs for village and road sewage                      | 21                | 08-Oct-21 A | 21-Jan-22 A | 22-Nov-21  | 22-Nov-21   | 16-Nov-21      | 06-Dec-21       |             | 0                   | 21-Aug-21 | 21-Sep-21 | 21-Oct-21   | age                                                                             |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
|             | Marine Temp. platform for HDD1                                                           | 52                | 11-Oct-21 A | 14-Jan-22 A | 22-Dec-21  | 22-Dec-21   | 01-Nov-21      | 31-Dec-21       |             |                     | 21-Aug-21 | 21-Sep-21 | 21-Oct-21 A | 14-Jan-22 A, Marine Temp. platform for HDD1                                     |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| SU-1095     | Prepare and submit Marine Temp. support frame for casing                                 | 10                | 11-Oct-21 A | 15-Nov-21 A | 22-Dec-21  | 22-Dec-21   | 01-Nov-21      | 11-Nov-21       |             | 0                   | 21-Aug-21 | 21-Sep-21 | 21-Oct-21   | Prepare and submit Marine Temp. support frame for casing                        |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| SU-2230     | Approve Marine Temp. support frame for casing                                            | 21                | 16-Nov-21 A | 14-Jan-22 A | 22-Dec-21  | 22-Dec-21   | 07-Dec-21      | 31-Dec-21       |             | 0                   | 21-Aug-21 | 21-Sep-21 | 21-Oct-21   | casing                                                                          |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
|             | POSPS                                                                                    | 514               | 20-May-21 A | 27-Oct-22   | 03-Dec-21  | 19-Dec-22   | 01-Jun-21      | 27-Oct-22       | 53          |                     | 21-Aug-21 | 21-Sep-21 | 21-Oct-21   | 27-Oct-22, POSPS                                                                |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| SU-2110     | Obtain revised POSPS GA, piling schedule , loading plan from PM                          | 0                 | 17-Aug-21 A |             | 04-Dec-21  |             | 01-Oct-21      |                 |             | 0                   | 21-Aug-21 | 21-Sep-21 | 21-Oct-21   | Obtain revised POSPS GA, piling schedule , loading plan from PM                 |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| SU-2330     | Obtain ABWF details from PM                                                              | 0                 | 13-Jun-22   |             | 05-Aug-22  |             | 13-Jun-22      |                 | 53          | 0                   | 21-Aug-21 | 21-Sep-21 | 21-Oct-21   | details from PM                                                                 |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
|             | Civil                                                                                    | 163               | 04-Oct-21 A | 22-May-22   | 03-Dec-21  | 04-Oct-22   | 14-Jan-22      | 25-Jun-22       | 135         |                     | 21-Aug-21 | 21-Sep-21 | 21-Oct-21 A | 22-May-22, Civil                                                                |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
|             | ELS works - Pump Station                                                                 | 79                | 01-Dec-21 A | 01-Apr-22   | 24-Jun-22  | 24-Jun-22   | 08-Apr-22      | 25-Jun-22       | 85          |                     | 21-Aug-21 | 21-Sep-21 | 21-Oct-21 A | 01-Apr-22, ELS works:- Pump Station                                             |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| SU-2080     | Prepare and submit ELS works - Pump Station                                              | 56                | 01-Dec-21 A | 04-Mar-22 A | 24-Jun-22  | 24-Jun-22   | 01-May-22      | 25-Jun-22       |             | 0                   | 21-Aug-21 | 21-Sep-21 | 21-Oct-21   | Station                                                                         |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| SU-2250     | Approve ELS works - Pump Station                                                         | 21                | 05-Mar-22 A | 01-Apr-22   | 24-Jun-22  | 24-Jun-22   | 08-Apr-22      | 28-Apr-22       | 85          | 0                   | 21-Aug-21 | 21-Sep-21 | 21-Oct-21   | ump Station                                                                     |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
|             | Foundation Checking and revised foundation Plan - Pump Station                           | 122               | 04-Oct-21 A | 15-May-22   | 03-Dec-21  | 17-Jan-22   | 14-Jan-22      | 15-May-22       | -118        |                     | 21-Aug-21 | 21-Sep-21 | 21-Oct-21 A | 15-May-22, Foundation Checking and revised foundation Plan - Pump               |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| SU-2085     | Foundation design review by PM after Management meenting on 1 Dec 2021                   | 35                | 01-Dec-21 A | 01-Apr-22   | 03-Dec-21  | 03-Dec-21   | 14-Jan-22      | 17-Feb-22       | -118        | 0                   | 21-Aug-21 | 21-Sep-21 | 21-Oct-21   | c-2021                                                                          |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| SU-2090     | Prepare and submit Foundation Checking and revised foundation Plan - Pump Station        | 35                | 04-Oct-21 A | 24-Apr-22   | 04-Dec-21  | 27-Dec-21   | 14-Jan-22      | 17-Feb-22       | -118        | 0                   | 21-Aug-21 | 21-Sep-21 | 21-Oct-21   | tion                                                                            |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| SU-2260     | Approve Foundation Checking and revised foundation Plan - Pump Station                   | 21                | 25-Apr-22   | 15-May-22   | 28-Dec-21  | 17-Jan-22   | 25-Apr-22      | 15-May-22       | -118        | 0                   | 21-Aug-21 | 21-Sep-21 | 21-Oct-21   | Pump Station                                                                    |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
|             | Structure - Pump Station                                                                 | 56                | 04-Oct-21 A | 22-May-22   | 14-Aug-22  | 04-Oct-22   | 15-Apr-22      | 09-Jun-22       | 135         |                     | 21-Aug-21 | 21-Sep-21 | 21-Oct-21 A | 22-May-22, Structure - Pump Station                                             |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| SU-2100     | Prepare and submit Structure - Pump Station                                              | 56                | 04-Oct-21 A | 01-May-22   | 14-Aug-22  | 13-Sep-22   | 15-Apr-22      | 09-Jun-22       | 135         | 0                   | 21-Aug-21 | 21-Sep-21 | 21-Oct-21   | ation                                                                           |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| SU-2270     | Approve Structure - Pump Station                                                         | 21                | 02-May-22   | 22-May-22   | 14-Sep-22  | 04-Oct-22   | 02-May-22      | 22-May-22       | 135         | 0                   | 21-Aug-21 | 21-Sep-21 | 21-Oct-21   | - Pump Station                                                                  |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
|             | ABWF                                                                                     | 77                | 12-Aug-22   | 27-Oct-22   | 04-Oct-22  | 19-Dec-22   | 12-Aug-22      | 27-Oct-22       | 53          |                     | 21-Aug-21 | 21-Sep-21 | 21-Oct-21   | 12-Aug-22, 27-Oct-22, ABWF                                                      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| SU-2340     | Prepare and submit ABWF shop drawing - Pump Station                                      | 56                | 12-Aug-22   | 06-Oct-22   | 04-Oct-22  | 28-Nov-22   | 12-Aug-22      | 06-Oct-22       | 53          | 0                   | 21-Aug-21 | 21-Sep-21 | 21-Oct-21   | ng - Pump Station                                                               |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| SU-2350     | Approve ABWF shop drawing - Pump Station                                                 | 21                | 07-Oct-22   | 27-Oct-22   | 29-Nov-22  | 19-Dec-22   | 07-Oct-22      | 27-Oct-22       | 53          | 0                   | 21-Aug-21 | 21-Sep-21 | 21-Oct-21   | awing - Pump Station                                                            |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
|             | E&M                                                                                      | 507               | 20-May-21 A | 21-Oct-22   | 04-Dec-21  | 05-Oct-22   | 01-Jun-21      | 21-Oct-22       | -16         |                     | 21-Aug-21 | 21-Sep-21 | 21-Oct-21 A | 21-Oct-22, E&M                                                                  |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
|             | Approval in principal                                                                    | 209               | 20-May-21 A | 13-Jan-22 A | 04-Dec-21  | 16-Jun-22   | 01-Jun-21      | 26-Dec-21       |             |                     | 21-Aug-21 | 21-Sep-21 | 21-Oct-21 A | 13-Jan-22 A, Approval in principal                                              |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
|             | AIP Submission                                                                           | 209               | 20-May-21 A | 13-Jan-22 A | 04-Dec-21  | 04-Dec-21   | 01-Jun-21      | 26-Dec-21       |             |                     | 21-Aug-21 | 21-Sep-21 | 21-Oct-21 A | 13-Jan-22 A, AIP Submission                                                     |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| EM-1010     | AIP for E&M works for Pui O Pump Station 1st submission                                  | 60                | 20-May-21 A | 20-Jul-21 A | 04-Dec-21  | 04-Dec-21   | 01-Jun-21      | 30-Jul-21       |             | 30                  | 21-Aug-21 | 21-Sep-21 | 21-Oct-21   | AIP for E&M works for Pui O Pump Station 1st submission                         |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| EM-1015     | AIP for E&M works for Pui O Pump Station comment from PM                                 | 21                | 21-Jul-21 A | 06-Aug-21 A | 04-Dec-21  | 04-Dec-21   | 30-Sep-21      | 20-Oct-21       |             | 30                  | 21-Aug-21 | 21-Sep-21 | 21-Oct-21   | AIP for E&M works for Pui O Pump Station comment from PM                        |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| EM-3145     | AIP for E&M works for Pui O Pump Station submission after obtain revised POSPS GA        | 60                | 18-Aug-21 A | 05-Nov-21 A | 04-Dec-21  | 04-Dec-21   | 01-Oct-21      | 29-Nov-21       |             | 30                  | 21-Aug-21 | 21-Sep-21 | 21-Oct-21   | AIP for E&M works for Pui O Pump Station submission after obtain revised PO     |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| EM-3150     | AIP for E&M works for Pui O Pump Station approval                                        | 21                | 06-Nov-21 A | 13-Jan-22 A | 04-Dec-21  | 04-Dec-21   | 06-Dec-21      | 26-Dec-21       |             | 30                  | 21-Aug-21 | 21-Sep-21 | 21-Oct-21   | roval                                                                           |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
|             | Treatment Process (Mechanical, Deodorization)                                            | 148               | 20-May-21 A | 05-Jan-22 A | 16-Jun-22  | 16-Jun-22   | 01-Aug-21      | 26-Dec-21       |             |                     | 21-Aug-21 | 21-Sep-21 | 21-Oct-21 A | 05-Jan-22 A, Treatment Process (Mechanical, Deodorization)                      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| EM-1011     | AIP for Treatment Process (Mechanical, Deodorization) 1st submission                     | 60                | 20-May-21 A | 02-Jul-21 A | 16-Jun-22  | 16-Jun-22   | 01-Aug-21      | 29-Sep-21       |             | 0                   | 21-Aug-21 | 21-Sep-21 | 21-Oct-21   | AIP for Treatment Process (Mechanical, Deodorization) 1st submission            |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| EM-3160     | AIP for Treatment Process (Mechanical, Deodorization) comment from PM                    | 21                | 03-Jul-21 A | 12-Jul-21 A | 16-Jun-22  | 16-Jun-22   | 30-Sep-21      | 20-Oct-21       |             | 0                   | 21-Aug-21 | 21-Sep-21 | 21-Oct-21   | AIP for Treatment Process (Mechanical, Deodorization) comment from PM           |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| EM-3190     | AIP for Treatment Process (Mechanical, Deodorization) submission                         | 60                | 18-Aug-21 A | 05-Nov-21 A | 16-Jun-22  | 16-Jun-22   | 01-Oct-21      | 29-Nov-21       |             | 0                   | 21-Aug-21 | 21-Sep-21 | 21-Oct-21   | AIP for Treatment Process (Mechanical, Deodorization) submission                |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| EM-3200     | AIP for Treatment Process (Mechanical, Deodorization) approval                           | 21                | 06-Nov-21 A | 05-Jan-22 A | 16-Jun-22  | 16-Jun-22   | 06-Dec-21      | 26-Dec-21       |             | 0                   | 21-Aug-21 | 21-Sep-21 | 21-Oct-21   | roval                                                                           |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
|             | Electrical, Control & Monitoring System                                                  | 148               | 20-May-21 A | 13-Jan-22 A | 16-Mar-22  | 16-Mar-22   | 01-Aug-21      | 26-Dec-21       |             |                     | 21-Aug-21 | 21-Sep-21 | 21-Oct-21 A | 13-Jan-22 A, Electrical, Control & Monitoring System                            |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| EM-1012     | AIP for Electrical, Control & Monitoring System 1st submission                           | 60                | 20-May-21 A | 06-Jul-21 A | 16-Mar-22  | 16-Mar-22   | 01-Aug-21      | 29-Sep-21       |             | 0                   | 21-Aug-21 | 21-Sep-21 | 21-Oct-21   | AIP for Electrical, Control & Monitoring System 1st submission                  |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| EM-3170     | AIP for Electrical, Control & Monitoring System comment from PM                          | 21                | 07-Jul-21 A | 12-Jul-21 A | 16-Mar-22  | 16-Mar-22   | 30-Sep-21      | 20-Oct-21       |             | 0                   | 21-Aug-21 | 21-Sep-21 | 21-Oct-21   | AIP for Electrical, Control & Monitoring System comment from PM                 |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| EM-3210     | AIP for Electrical, Control & Monitoring System submission after obtain revised POSPS GA | 60                | 18-Aug-21 A | 05-Nov-21 A | 16-Mar-22  | 16-Mar-22   | 01-Oct-21      | 29-Nov-21       |             | 0                   | 21-Aug-21 | 21-Sep-21 | 21-Oct-21   | AIP for Electrical, Control & Monitoring System submission after obtain revised |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| EM-3220     | AIP for Electrical, Control & Monitoring System approval                                 | 21                | 06-Nov-21 A | 13-Jan-22 A | 16-Mar-22  | 16-Mar-22   | 06-Dec-21      | 26-Dec-21       |             | 0                   | 21-Aug-21 | 21-Sep-21 | 21-Oct-21   | roval                                                                           |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
|             | Building Service (MV, EL, FS, PD & ELV)                                                  | 148               | 20-May-21 A | 13-Jan-22 A | 16-Mar-22  | 16-Mar-22   | 01-Aug-21      | 26-Dec-21       |             |                     | 21-Aug-21 | 21-Sep-21 | 21-Oct-21 A | 13-Jan-22 A, Building Service (MV, EL, FS, PD & ELV)                            |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| EM-1013     | AIP for Building Service (MV, EL, FS, PD & ELV) 1st submission                           | 60                | 20-May-21 A | 20-Jul-21 A | 16-Mar-22  | 16-Mar-22   | 01-Aug-21      | 29-Sep-21       |             | 0                   | 21-Aug-21 | 21-Sep-21 | 21-Oct-21   | AIP for Building Service (MV, EL, FS, PD & ELV) 1st submission                  |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| EM-3180     | AIP for Building Service (MV, EL, FS, PD & ELV) comment from PM                          | 21                | 21-Jul-21 A | 04-Aug-21 A | 16-Mar-22  | 16-Mar-22   | 30-Sep-21      | 20-Oct-21       |             | 0                   | 21-Aug-21 | 21-Sep-21 | 21-Oct-21   | AIP for Building Service (MV, EL, FS, PD & ELV) comment from PM                 |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| EM-3230     | AIP for Building Service (MV, EL, FS, PD & ELV) submission after obtain revised POSPS GA | 60                | 18-Aug-21 A | 05-Nov-21 A | 16-Mar-22  | 16-Mar-22   | 01-Oct-21      | 29-Nov-21       |             | 0                   | 21-Aug-21 | 21-Sep-21 | 21-Oct-21   | AIP for Building Service (MV, EL, FS, PD & ELV) submission after obtain revise  |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| EM-3240     | AIP for Building Service (MV, EL, FS, PD & ELV) approval                                 | 21                | 06-Nov-21 A | 13-Jan-22 A | 16-Mar-22  | 16-Mar-22   | 06-Dec-21      | 26-Dec-21       |             | 0                   | 21-Aug-21 | 21-Sep-21 | 21-Oct-21   | roval                                                                           |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
|             | DDA                                                                                      | 204               | 07-Feb-22 A | 20-Sep-22   | 16-Mar-22  | 04-Sep-22   | 01-Mar-22      | 20-Sep-22       | -16         |                     | 21-Aug-21 | 21-Sep-21 | 21-Oct-21 A | 07-Feb-22 A, 20-Sep-22, DDA                                                     |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
|             | DDA Submission                                                                           | 173               | 01-Apr-22   | 20-Sep-22   | 16-Mar-22  | 04-Sep-22   | 01-Apr-22      | 20-Sep-22       | -16         |                     | 21-Aug-21 | 21-Sep-21 | 21-Oct-21   | 01-Apr-22, 20-Sep-22, DDA Submission                                            |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| EM-1020     | Detailed Design Approval (DDA) for E&M works for Pui O Pump Station submission           | 152               | 01-Apr-22   | 30-Aug-22   | 16-Mar-22  | 14-Aug-22   | 01-Apr-22      | 30-Aug-22       |             |                     |           |           |             |                                                                                 |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |



Contract No. DC/2020/02  
Construction of San Shek Wan Sewage Treatment Works,  
Associated Submarine Outfall and Pui O Sewerage Works



| Activity ID | Activity Name                                                                                                         | Original Duration | Start       | Finish      | Late Start | Late Finish | Baseline Start | Baseline Finish | Total Float | Time Risk Allowance | 2021 |    |                                                                                    | 2022 |    |    |             | 2023                                                              |    |    |    | 2024 |    |    |    | 2025 |    |    |    | 2026 |   |    |  |  |  |  |
|-------------|-----------------------------------------------------------------------------------------------------------------------|-------------------|-------------|-------------|------------|-------------|----------------|-----------------|-------------|---------------------|------|----|------------------------------------------------------------------------------------|------|----|----|-------------|-------------------------------------------------------------------|----|----|----|------|----|----|----|------|----|----|----|------|---|----|--|--|--|--|
|             |                                                                                                                       |                   |             |             |            |             |                |                 |             |                     | Q2   | Q3 | Q4                                                                                 | Q1   | Q2 | Q3 | Q4          | Q                                                                 | Q2 | Q3 | Q4 | Q    | Q2 | Q3 | Q4 | Q    | Q2 | Q3 | Q4 | Q1   | Q | Q3 |  |  |  |  |
|             | Electrical Power Supply System                                                                                        | 112               | 01-Apr-22   | 21-Jul-22   | 16-May-22  | 04-Sep-22   | 01-Apr-22      | 21-Jul-22       | 45          |                     |      |    | 01-Apr-22                                                                          |      |    |    | 21-Jul-22   | Electrical Power Supply System                                    |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
| EM-1022     | DDA for Electrical Power Supply System Submission                                                                     | 91                | 01-Apr-22   | 30-Jun-22   | 16-May-22  | 14-Aug-22   | 01-Apr-22      | 30-Jun-22       | 45          | 0                   |      |    | Submission                                                                         |      |    |    |             |                                                                   |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
| EM-3270     | DDA for Electrical Power Supply System approval                                                                       | 21                | 01-Jul-22   | 21-Jul-22   | 15-Aug-22  | 04-Sep-22   | 01-Jul-22      | 21-Jul-22       | 45          | 0                   |      |    | System approval                                                                    |      |    |    |             |                                                                   |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
|             | UPS System                                                                                                            | 173               | 01-Apr-22   | 20-Sep-22   | 16-Mar-22  | 04-Sep-22   | 01-Apr-22      | 20-Sep-22       | -16         |                     |      |    | 01-Apr-22                                                                          |      |    |    | 20-Sep-22   | UPS System                                                        |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
| EM-1023     | DDA for UPS System Submission                                                                                         | 152               | 01-Apr-22   | 30-Aug-22   | 16-Mar-22  | 14-Aug-22   | 01-Apr-22      | 30-Aug-22       | -16         | 0                   |      |    | Submission                                                                         |      |    |    |             |                                                                   |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
| EM-3280     | DDA for UPS System approval                                                                                           | 21                | 31-Aug-22   | 20-Sep-22   | 15-Aug-22  | 04-Sep-22   | 31-Aug-22      | 20-Sep-22       | -16         | 0                   |      |    | System approval                                                                    |      |    |    |             |                                                                   |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
|             | Earthing and Lightning                                                                                                | 36                | 01-Apr-22   | 06-May-22   | 31-Jul-22  | 04-Sep-22   | 01-Apr-22      | 06-May-22       | 121         |                     |      |    | 01-Apr-22                                                                          |      |    |    | 06-May-22   | Earthing and Lightning                                            |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
| EM-1024     | DDA for Earthing and Lightning Submission                                                                             | 15                | 01-Apr-22   | 15-Apr-22   | 31-Jul-22  | 14-Aug-22   | 01-Apr-22      | 15-Apr-22       | 121         | 0                   |      |    | Submission                                                                         |      |    |    |             |                                                                   |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
| EM-3290     | DDA for Earthing and Lightning approval                                                                               | 21                | 16-Apr-22   | 06-May-22   | 15-Aug-22  | 04-Sep-22   | 16-Apr-22      | 06-May-22       | 121         | 0                   |      |    | ing approval                                                                       |      |    |    |             |                                                                   |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
|             | System Control Philosophy                                                                                             | 112               | 01-Apr-22   | 21-Jul-22   | 16-May-22  | 04-Sep-22   | 01-Apr-22      | 21-Jul-22       | 45          |                     |      |    | 01-Apr-22                                                                          |      |    |    | 21-Jul-22   | System Control Philosophy                                         |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
| EM-1025     | DDA for System Control Philosophy Submission                                                                          | 91                | 01-Apr-22   | 30-Jun-22   | 16-May-22  | 14-Aug-22   | 01-Apr-22      | 30-Jun-22       | 45          | 0                   |      |    | Submission                                                                         |      |    |    |             |                                                                   |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
| EM-3300     | DDA for System Control Philosophy approval                                                                            | 21                | 01-Jul-22   | 21-Jul-22   | 15-Aug-22  | 04-Sep-22   | 01-Jul-22      | 21-Jul-22       | 45          | 0                   |      |    | sophy approval                                                                     |      |    |    |             |                                                                   |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
|             | PLC & SCADA System                                                                                                    | 82                | 01-Apr-22   | 21-Jun-22   | 15-Jun-22  | 04-Sep-22   | 01-Apr-22      | 21-Jun-22       | 75          |                     |      |    | 01-Apr-22                                                                          |      |    |    | 21-Jun-22   | PLC & SCADA System                                                |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
| EM-1026     | DDA for PLC & SCADA System Submission                                                                                 | 61                | 01-Apr-22   | 31-May-22   | 15-Jun-22  | 14-Aug-22   | 01-Apr-22      | 31-May-22       | 75          | 0                   |      |    | Submission                                                                         |      |    |    |             |                                                                   |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
| EM-3310     | DDA for PLC & SCADA System Submission                                                                                 | 21                | 01-Jun-22   | 21-Jun-22   | 15-Aug-22  | 04-Sep-22   | 01-Jun-22      | 21-Jun-22       | 75          | 0                   |      |    | em Submission                                                                      |      |    |    |             |                                                                   |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
|             | Building Service (MV, EL, FS, PD, ELV)                                                                                | 112               | 01-Apr-22   | 21-Jul-22   | 16-May-22  | 04-Sep-22   | 01-Apr-22      | 21-Jul-22       | 45          |                     |      |    | 01-Apr-22                                                                          |      |    |    | 21-Jul-22   | Building Service (MV, EL, FS, PD, ELV)                            |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
| EM-1027     | DDA for Building Service (MV, EL, FS, PD, ELV) Submission                                                             | 91                | 01-Apr-22   | 30-Jun-22   | 16-May-22  | 14-Aug-22   | 01-Apr-22      | 30-Jun-22       | 45          | 0                   |      |    | Submission                                                                         |      |    |    |             |                                                                   |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
| EM-3320     | DDA for Building Service (MV, EL, FS, PD, ELV) approval                                                               | 21                | 01-Jul-22   | 21-Jul-22   | 15-Aug-22  | 04-Sep-22   | 01-Jul-22      | 21-Jul-22       | 45          | 0                   |      |    | ELV) approval                                                                      |      |    |    |             |                                                                   |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
|             | Civil Requirement                                                                                                     | 319               | 04-Oct-21 A | 21-Oct-22   | 04-Dec-21  | 05-Oct-22   | 06-Dec-21      | 21-Oct-22       | -16         |                     |      |    | Oct-21 A                                                                           |      |    |    | 21-Oct-22   | Civil Requirement                                                 |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
| EM-1030     | Civil Requirement for POSPS foundation design (loading distribution, opening for plant mobilization) provided by ATAL | 0                 | 04-Oct-21 A |             | 04-Dec-21  |             | 06-Dec-21      |                 |             | 0                   |      |    | ◆ Civil Requirement for POSPS foundation design (loading distribution, opening for |      |    |    |             |                                                                   |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
| EM-1040     | Civil Requirement for POSPS structure construction (CBWD,CSD) provided by ATAL                                        | 0                 | 21-Oct-22   |             | 05-Oct-22  |             | 21-Oct-22      |                 | -16         | 0                   |      |    | provided by ATAL                                                                   |      |    |    | ◆           |                                                                   |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
|             | SSWTW                                                                                                                 | 768               | 23-Jul-21 A | 07-Sep-23   | 01-Nov-21  | 29-Aug-26   | 01-Aug-21      | 07-Sep-23       | 1087        |                     |      |    | 21 A                                                                               |      |    |    | 07-Sep-23   | SSWTW                                                             |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
| SU-2170     | Obtain revised SSWTW GA, piling schedule , loading plan from PM                                                       | 0                 | 01-Apr-22   |             | 12-Mar-22  |             | 01-Apr-22      |                 | -20         | 0                   |      |    | an from PM                                                                         |      |    |    | ◆           |                                                                   |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
| SU-2380     | Obtain ABWF details from PM                                                                                           | 0                 | 27-Mar-23   |             | 24-Mar-24  |             | 27-Mar-23      |                 | 363         | 0                   |      |    | Obtain ABWF details from PM                                                        |      |    |    | ◆           |                                                                   |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
|             | Civil                                                                                                                 | 490               | 23-Jul-21 A | 03-Dec-22   | 01-Nov-21  | 29-Aug-26   | 01-Aug-21      | 03-Dec-22       | 1365        |                     |      |    | 21 A                                                                               |      |    |    | 03-Dec-22   | Civil                                                             |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
|             | Stage 1 ELS for HDD construction                                                                                      | 102               | 23-Jul-21 A | 11-Oct-21 A | 01-Nov-21  | 01-Nov-21   | 01-Aug-21      | 10-Nov-21       |             |                     |      |    | 21 A                                                                               |      |    |    | 11-Oct-21 A | Stage 1 ELS for HDD construction                                  |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
| SU-2130     | Prepare and submit Stage 1 ELS for HDD construction                                                                   | 28                | 23-Jul-21 A | 27-Sep-21 A | 01-Nov-21  | 01-Nov-21   | 01-Aug-21      | 28-Aug-21       |             | 0                   |      |    | Prepare and submit Stage 1 ELS for HDD construction                                |      |    |    |             |                                                                   |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
| SU-2290     | Approve Stage 1 ELS for HDD construction                                                                              | 21                | 27-Sep-21 A | 11-Oct-21 A | 01-Nov-21  | 01-Nov-21   | 21-Oct-21      | 10-Nov-21       |             | 0                   |      |    | Approve Stage 1 ELS for HDD construction                                           |      |    |    |             |                                                                   |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
|             | ELS works - Treatment Plant                                                                                           | 119               | 01-May-22   | 27-Aug-22   | 03-May-26  | 29-Aug-26   | 01-May-22      | 27-Aug-22       | 1463        |                     |      |    | 01-May-22                                                                          |      |    |    | 27-Aug-22   | ELS works - Treatment Plant                                       |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
| SU-2135     | Prepare and submit ELS works - Treatment Plant                                                                        | 98                | 01-May-22   | 06-Aug-22   | 03-May-26  | 08-Aug-26   | 01-May-22      | 06-Aug-22       | 1463        | 30                  |      |    | Treatment Plant                                                                    |      |    |    |             |                                                                   |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
| SU-2300     | Approve ELS works - Treatment Plant                                                                                   | 21                | 07-Aug-22   | 27-Aug-22   | 09-Aug-26  | 29-Aug-26   | 07-Aug-22      | 27-Aug-22       | 1463        | 30                  |      |    | - Treatment Plant                                                                  |      |    |    | ◆           |                                                                   |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
|             | Foundation Checking and Revised foundation Plan - Treatment Plant                                                     | 119               | 01-May-22   | 27-Aug-22   | 12-Mar-22  | 08-Jul-22   | 01-May-22      | 27-Aug-22       | -50         |                     |      |    | 01-May-22                                                                          |      |    |    | 27-Aug-22   | Foundation Checking and Revised foundation Plan - Treatment Plant |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
| SU-2140     | Prepare and submit Foundation Checking and Revised foundation Plan - Treatment Plant                                  | 98                | 01-May-22   | 06-Aug-22   | 12-Mar-22  | 17-Jun-22   | 01-May-22      | 06-Aug-22       | -50         | 30                  |      |    | atment Plant                                                                       |      |    |    |             |                                                                   |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
| SU-2310     | Approve Foundation Checking and Revised foundation Plan - Treatment Plant                                             | 21                | 07-Aug-22   | 27-Aug-22   | 18-Jun-22  | 08-Jul-22   | 07-Aug-22      | 27-Aug-22       | -50         | 30                  |      |    | -Treatment Plant                                                                   |      |    |    | ◆           |                                                                   |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
|             | Structure - Treatment Plant                                                                                           | 119               | 07-Aug-22   | 03-Dec-22   | 29-Jun-23  | 25-Oct-23   | 07-Aug-22      | 03-Dec-22       | 326         |                     |      |    | 07-Aug-22                                                                          |      |    |    | 03-Dec-22   | Structure - Treatment Plant                                       |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
| SU-2150     | Prepare and submit Structure - Treatment Plant                                                                        | 98                | 07-Aug-22   | 12-Nov-22   | 29-Jun-23  | 04-Oct-23   | 07-Aug-22      | 12-Nov-22       | 326         | 30                  |      |    | - Treatment Plant                                                                  |      |    |    |             |                                                                   |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
| SU-2320     | Approve Structure - Treatment Plant                                                                                   | 21                | 13-Nov-22   | 03-Dec-22   | 05-Oct-23  | 25-Oct-23   | 13-Nov-22      | 03-Dec-22       | 326         | 30                  |      |    | cture- Treatment Plant                                                             |      |    |    | ◆           |                                                                   |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
|             | ABWF                                                                                                                  | 105               | 26-May-23   | 07-Sep-23   | 23-May-24  | 04-Sep-24   | 26-May-23      | 07-Sep-23       | 363         |                     |      |    |                                                                                    |      |    |    | 26-May-23   | 07-Sep-23, ABWF                                                   |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
| SU-2360     | Prepare and submit ABWF shop drawing - Treatment Plant                                                                | 84                | 26-May-23   | 17-Aug-23   | 23-May-24  | 14-Aug-24   | 26-May-23      | 17-Aug-23       | 363         | 0                   |      |    | shop drawing - Treatment Plant                                                     |      |    |    |             |                                                                   |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
| SU-2370     | Approve ABWF shop drawing - Treatment Plant                                                                           | 21                | 18-Aug-23   | 07-Sep-23   | 15-Aug-24  | 04-Sep-24   | 18-Aug-23      | 07-Sep-23       | 363         | 0                   |      |    | WF shop drawing - Treatment Plant                                                  |      |    |    | ◆           |                                                                   |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
|             | E&M                                                                                                                   | 640               | 01-Sep-21 A | 03-Jul-23   | 12-Mar-22  | 26-Oct-23   | 01-Oct-21      | 03-Jul-23       | 115         |                     |      |    | ep-21 A                                                                            |      |    |    | 03-Jul-23   | E&M                                                               |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
|             | AIP                                                                                                                   | 206               | 01-Sep-21 A | 13-Jan-22 A | 12-Mar-22  | 19-Apr-23   | 01-Oct-21      | 24-Apr-22       |             |                     |      |    | ep-21 A                                                                            |      |    |    | 13-Jan-22 A | AIP                                                               |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
|             | AIP Submission                                                                                                        | 206               | 01-Sep-21 A | 13-Jan-22 A | 12-Mar-22  | 25-Jul-22   | 01-Oct-21      | 24-Apr-22       |             |                     |      |    | ep-21 A                                                                            |      |    |    | 13-Jan-22 A | AIP Submission                                                    |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
| EM-2010     | AIP for E&M works for Treatment Plant submission after obtain revised SSWTW GA                                        | 206               | 01-Sep-21 A | 05-Nov-21 A | 12-Mar-22  | 12-Mar-22   | 01-Oct-21      | 24-Apr-22       |             | 30                  |      |    | ■ AIP for E&M works for Treatment Plant submission after obtain revised SSWTW      |      |    |    |             |                                                                   |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
| EM-3330     | AIP for E&M works for Treatment Plant approval                                                                        | 21                | 06-Nov-21 A | 13-Jan-22 A | 25-Jul-22  | 25-Jul-22   | 01-Dec-21      | 21-Dec-21       |             | 30                  |      |    | roval                                                                              |      |    |    | ■           |                                                                   |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
|             | Preliminary Treatment (Mechanical)                                                                                    | 206               | 01-Sep-21 A | 28-Dec-21 A | 18-Nov-22  | 18-Nov-22   | 01-Oct-21      | 24-Apr-22       |             |                     |      |    | ep-21 A                                                                            |      |    |    | 28-Dec-21 A | Preliminary Treatment (Mechanical)                                |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
| EM-2012     | AIP for Preliminary Treatment (Mechanical) submission                                                                 | 206               | 01-Sep-21 A | 05-Nov-21 A | 18-Nov-22  | 18-Nov-22   | 01-Oct-21      | 24-Apr-22       |             | 0                   |      |    | ■ AIP for Preliminary Treatment (Mechanical) submission                            |      |    |    |             |                                                                   |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
| EM-3340     | AIP for Preliminary Treatment (Mechanical) approval                                                                   | 21                | 06-Nov-21 A | 28-Dec-21 A | 18-Nov-22  | 18-Nov-22   | 01-Dec-21      | 21-Dec-21       |             | 0                   |      |    | ■ AIP for Preliminary Treatment (Mechanical) approval                              |      |    |    |             |                                                                   |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
|             | Secondary Treatment & Membrane Filtration                                                                             | 206               | 01-Sep-21 A | 28-Dec-21 A | 19-Apr-23  | 19-Apr-23   | 01-Oct-21      | 24-Apr-22       |             |                     |      |    | ep-21 A                                                                            |      |    |    | 28-Dec-21 A | Secondary Treatment & Membrane Filtration                         |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
| EM-2014     | AIP for Secondary Treatment & Membrane Filtration submission                                                          | 206               | 01-Sep-21 A | 05-Nov-21 A | 19-Apr-23  | 19-Apr-23   | 01-Oct-21      | 24-Apr-22       |             | 0                   |      |    | ■ AIP for Secondary Treatment & Membrane Filtration submission                     |      |    |    |             |                                                                   |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |
| EM-3350     | AIP for Secondary Treatment & Membrane Filtration approval                                                            | 21                | 06-Nov-21 A | 28-Dec-21 A | 19-Apr-23  | 19-Apr-23   | 01-Dec-21      | 21-Dec-21       |             | 0                   |      |    | ■ AIP for Secondary Treatment & Membrane Filtration approval                       |      |    |    |             |                                                                   |    |    |    |      |    |    |    |      |    |    |    |      |   |    |  |  |  |  |





|                                                                                    |                |                                                                                     |                         |                                                                                     |                   |
|------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------|-------------------------|-------------------------------------------------------------------------------------|-------------------|
|  | Summary        |  | Critical Remaining Work |  | Finish Constraint |
|  | Actual LOE     |  | Milestone               |  | No Predecessors   |
|  | Remaining LOE  |  | Crit Milestone          |  | No Successors     |
|  | Actual Work    |  | Actual Milestone        |                                                                                     |                   |
|  | Remaining Work |  | Start Constraint        |                                                                                     |                   |

Page 5 of 14

| Date      | Revision | Checked | Approved |
|-----------|----------|---------|----------|
| 31-Mar-22 | r0       | JW      | CT       |
|           |          |         |          |
|           |          |         |          |
|           |          |         |          |



Contract No. DC/2020/02  
Construction of San Shek Wan Sewage Treatment Works,  
Associated Submarine Outfall and Pui O Sewerage Works



| Activity ID | Activity Name         | Original Duration | Start     | Finish    | Late Start | Late Finish | Baseline Start | Baseline Finish | Total Float | Time Risk Allowance | 2021 |    |    | 2022 |    |    |           | 2023 |    |    |    | 2024 |    |    |    | 2025 |    |    |    | 2026 |    |    |    |    |   |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|             |                       |                   |           |           |            |             |                |                 |             |                     | Q2   | Q3 | Q4 | Q1   | Q2 | Q3 | Q4        | Q    | Q2 | Q3 | Q4 | Q    | Q2 | Q3 | Q4 | Q    | Q2 | Q3 | Q4 | Q    | Q2 | Q3 | Q4 | Q1 | Q | Q3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|             | Building Service (FS) | 250               | 01-Apr-22 | 06-Dec-22 | 17-Jan-23  | 23-Sep-23   | 01-Apr-22      | 06-Dec-22       | 291         |                     |      |    |    |      |    |    | 01-Apr-22 |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |   |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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|  | Summary        |  | Critical Remaining Work |  | Finish Constraint |
|  | Actual LOE     |  | Milestone               |  | No Predecessors   |
|  | Remaining LOE  |  | Crit Milestone          |  | No Successors     |
|  | Actual Work    |  | Actual Milestone        |  |                   |
|  | Remaining Work |  | Start Constraint        |  |                   |

Project ID: MP202203  
Tentative Construction Programme of DC/2020/02  
Page 6 of 14

Data Date: 31-Mar-22  
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| Activity ID | Activity Name                                                                     | Original Duration                                                                                                      | Start       | Finish      | Late Start  | Late Finish | Baseline Start | Baseline Finish | Total Float | Time Risk Allowance | 2021      |                                                                                             |                                                                                                                        |    | 2022 |    |    |   | 2023 |    |    |   | 2024 |    |    |   | 2025 |    |    |   | 2026 |    |    |   |    |    |
|-------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-------------|-------------|----------------|-----------------|-------------|---------------------|-----------|---------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|----|------|----|----|---|------|----|----|---|------|----|----|---|------|----|----|---|------|----|----|---|----|----|
|             |                                                                                   |                                                                                                                        |             |             |             |             |                |                 |             |                     | Q2        | Q3                                                                                          | Q4                                                                                                                     | Q1 | Q2   | Q3 | Q4 | Q | Q2   | Q3 | Q4 | Q | Q2   | Q3 | Q4 | Q | Q2   | Q3 | Q4 | Q | Q2   | Q3 | Q4 | Q | Q2 | Q3 |
| KLEW 37     | Portion B2                                                                        | 456                                                                                                                    | 05-Jul-21 A | 08-May-23   | 02-Mar-22   | 08-May-23   | 25-Oct-21      | 08-May-23       | 0           |                     | 21 A      | 08-May-23, Portion B2                                                                       |                                                                                                                        |    |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |    |    |
|             | B2-1010                                                                           | Tree survey and site condition survey (upon site access) for Portion B2 (after access date)                            | 42          | 05-Jul-21 A | 05-Oct-21 A | 02-Mar-22   | 02-Mar-22      | 25-Oct-21       | 11-Dec-21   | 0                   |           | Tree survey and site condition survey (upon site access) for Portion B2 (after access date) |                                                                                                                        |    |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |    |    |
|             | B2-1020                                                                           | Trial pits, mobilization and water barrier/ fencing/ all necessary signage                                             | 17          | 01-Apr-22   | 25-Apr-22   | 02-Mar-22   | 21-Mar-22      | 01-Apr-22       | 25-Apr-22   | -26                 | 0         |                                                                                             | Trial pits, mobilization and water barrier/ fencing/ all necessary signage                                             |    |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |    |    |
|             | B2-1040                                                                           | Excavation, sewer laying, construction of manhole together with backfill and testing (approx.300m, 30mh, 1wf)          | 278         | 26-Apr-22   | 28-Mar-23   | 22-Mar-22   | 25-Feb-23      | 26-Apr-22       | 28-Mar-23   | -26                 | 0         |                                                                                             | Excavation, sewer laying, construction of manhole together with backfill and testing (approx.300m, 30mh, 1wf)          |    |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |    |    |
|             | B2-1050                                                                           | Testing for sewer and manhole                                                                                          | 30          | 29-Mar-23   | 08-May-23   | 29-Mar-23   | 08-May-23      | 29-Mar-23       | 08-May-23   | 0                   | 0         |                                                                                             | Testing for sewer and manhole                                                                                          |    |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |    |    |
|             | Portion B1/ Area B11 (near Galaxy Garden)                                         | 114                                                                                                                    | 17-Jan-23   | 08-Jun-23   | 15-Dec-22   | 08-May-23   | 17-Jan-23      | 08-Jun-23       | -26         |                     |           | 17-Jan-23                                                                                   | 08-Jun-23, Portion B1/ Area B11 (near Galaxy Garden)                                                                   |    |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |    |    |
|             | B11-1020                                                                          | Excavation, sewer laying, construction of manhole together with backfill and testing (approx.101m, 8mh, 1wf)           | 114         | 17-Jan-23   | 08-Jun-23   | 15-Dec-22   | 08-May-23      | 17-Jan-23       | 08-Jun-23   | -26                 | 0         |                                                                                             | Excavation, sewer laying, construction of manhole together with backfill and testing (approx.101m, 8mh, 1wf)           |    |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |    |    |
|             | Portion B2/ Area B21 (near San Shek Wan 3?Milestone)                              | 87                                                                                                                     | 13-Feb-23   | 31-May-23   | 18-Jan-23   | 08-May-23   | 13-Feb-23      | 31-May-23       | -19         |                     |           | 13-Feb-23                                                                                   | 31-May-23, Portion B2/ Area B21 (near San Shek Wan 3?Milestone)                                                        |    |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |    |    |
|             | B21-1010                                                                          | Excavation, sewer laying, construction of manhole together with backfill and testing (approx.87m, 6mh, 1wf)            | 87          | 13-Feb-23   | 31-May-23   | 18-Jan-23   | 08-May-23      | 13-Feb-23       | 31-May-23   | -19                 | 0         |                                                                                             | Excavation, sewer laying, construction of manhole together with backfill and testing (approx.87m, 6mh, 1wf)            |    |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |    |    |
|             | Portion B2 / Area B22 (Chi Ma Wan Beach)                                          | 409                                                                                                                    | 07-Dec-21 A | 23-May-23   | 17-Mar-22   | 08-May-23   | 03-Jan-22      | 23-May-23       | -13         |                     |           | 07-Dec-21 A                                                                                 | 23-May-23, Portion B2 / Area B22 (Chi Ma Wan Beach)                                                                    |    |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |    |    |
|             | B22-1005                                                                          | Obtain LCSD/RC consent                                                                                                 | 16          | 01-Mar-22 A | 15-Mar-22 A | 01-Feb-23   | 01-Feb-23      | 01-Apr-22       | 23-Apr-22   |                     |           |                                                                                             | Obtain LCSD/RC consent                                                                                                 |    |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |    |    |
|             | B22-1010                                                                          | Trial pit before long trench (3 manholes x 12 days)                                                                    | 36          | 25-Mar-22 A | 23-May-22   | 01-Feb-23   | 18-Mar-23      | 01-Apr-22       | 18-May-22   | 247                 | 0         |                                                                                             | Trial pit before long trench (3 manholes x 12 days)                                                                    |    |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |    |    |
|             | B22-1020                                                                          | Excavation, sewer laying, construction of manhole together with backfill and testing (approx.100m, 4mh, 1wf)           | 60          | 27-Apr-22   | 08-Jul-22   | 22-Feb-23   | 08-May-23      | 27-Apr-22       | 08-Jul-22   | 247                 | 0         |                                                                                             | Excavation, sewer laying, construction of manhole together with backfill and testing (approx.100m, 4mh, 1wf)           |    |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |    |    |
|             | B22-1040                                                                          | Obtain PMI for additional GI on Pui O beach road                                                                       | 16          | 07-Dec-21 A | 18-Mar-22 A | 17-Mar-22   | 17-Mar-22      | 03-Jan-22       | 20-Jan-22   |                     |           |                                                                                             | Obtain PMI for additional GI on Pui O beach road                                                                       |    |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |    |    |
|             | B22-1050                                                                          | Mobilization and addiional GI (2 nos)                                                                                  | 21          | 22-Mar-22 A | 11-Apr-22   | 17-Mar-22   | 25-Mar-22      | 20-Apr-22       | 14-May-22   | -13                 | 0         |                                                                                             | Mobilization and addiional GI (2 nos)                                                                                  |    |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |    |    |
|             | B22-1060                                                                          | GI review, design confirmation, subleting and plants delivery                                                          | 210         | 12-Apr-22   | 22-Dec-22   | 26-Mar-22   | 07-Dec-22      | 12-Apr-22       | 22-Dec-22   | -13                 | 0         |                                                                                             | GI review, design confirmation, subleting and plants delivery                                                          |    |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |    |    |
|             | B22-1070                                                                          | Excavation, sewer laying, construction of manhole together with backfill and testing (approx.150m, 6mh, 1wf)           | 120         | 23-Dec-22   | 23-May-23   | 08-Dec-22   | 08-May-23      | 23-Dec-22       | 23-May-23   | -13                 | 0         |                                                                                             | Excavation, sewer laying, construction of manhole together with backfill and testing (approx.150m, 6mh, 1wf)           |    |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |    |    |
|             | Section 2 Pui O Sewage Pumping Station and nearby Sewage works                    | 711                                                                                                                    | 05-Jul-21 A | 20-Dec-23   | 05-Jul-21   | 14-Jan-26   | 31-Jul-21      | 20-Dec-23       | 611         |                     |           | 21 A                                                                                        | 20-Dec-23, Section 2 Pui O Sewage Pumping Station and nearby Sewage works                                              |    |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |    |    |
|             | S2-1000                                                                           | Pui O sewage Pumping Station and nearby Sewage works (Sectional Completion date 2)                                     | 554         | 05-Jul-21 A | 02-Sep-23   | 05-Jul-21   | 08-May-23      | 31-Jul-21       | 10-Jun-23   | -98                 | 0         |                                                                                             | Pui O sewage Pumping Station and nearby Sewage works (Sectional Completion date 2)                                     |    |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |    |    |
|             | Construction of Pui O Sewage Pumping Station (Area D, section 2)                  | 711                                                                                                                    | 05-Jul-21 A | 20-Dec-23   | 03-Dec-21   | 14-Jan-26   | 31-Jul-21      | 20-Dec-23       | 611         |                     |           | 21 A                                                                                        | 20-Dec-23, Construction of Pui O Sewage Pumping Station (Area D, section 2)                                            |    |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |    |    |
|             | Stage 1                                                                           | 460                                                                                                                    | 05-Jul-21 A | 14-Feb-23   | 03-Dec-21   | 08-May-23   | 31-Jul-21      | 14-Feb-23       | 66          |                     |           | 21 A                                                                                        | 14-Feb-23, Stage 1                                                                                                     |    |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |    |    |
|             | Pump Station                                                                      | 376                                                                                                                    | 05-Jul-21 A | 02-Nov-22   | 03-Dec-21   | 13-Jul-22   | 31-Jul-21      | 02-Nov-22       | -93         |                     |           | 21 A                                                                                        | 02-Nov-22, Pump Station                                                                                                |    |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |    |    |
|             | SPS-1000                                                                          | Initial site survey, tree survey, condition survey and corresponding consent for reports                               | 30          | 05-Jul-21 A | 05-Oct-21 A | 03-Dec-21   | 03-Dec-21      | 31-Jul-21       | 03-Sep-21   |                     | 0         |                                                                                             | Initial site survey, tree survey, condition survey and corresponding consent for reports                               |    |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |    |    |
|             | SPS-1010                                                                          | Mobilization, Site clearance and tree felling (approx.1728m2 & 36nr. 200m2/day and 4 nr./day)                          | 60          | 04-Oct-21 A | 30-Oct-21 A | 03-Dec-21   | 03-Dec-21      | 01-Nov-21       | 11-Jan-22   |                     | 0         |                                                                                             | Mobilization, Site clearance and tree felling (approx.1728m2 & 36nr. 200m2/day)                                        |    |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |    |    |
|             | SPS-1020                                                                          | Tree pruning, digging Recipient site preparation and transplanting works for T113 & T114                               | 42          | 05-Jan-22 A | 02-Mar-22 A | 18-Jan-22   | 18-Jan-22      | 04-Feb-22       | 24-Mar-22   |                     | 0         |                                                                                             | Tree pruning, digging Recipient site preparation and transplanting works for T113 & T114                               |    |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |    |    |
|             | SPS-1023                                                                          | Erection of water barrier and site formation earth works                                                               | 30          | 14-Mar-22 A | 08-Apr-22   | 07-Feb-22   | 12-Feb-22      | 01-Apr-22       | 11-May-22   | -46                 | 0         |                                                                                             | Erection of water barrier and site formation earth works                                                               |    |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |    |    |
|             | SPS-1025                                                                          | Provision of access road to pump station                                                                               | 14          | 14-Oct-21 A | 30-Oct-21 A | 03-Dec-21   | 03-Dec-21      | 01-Nov-21       | 16-Nov-21   |                     | 0         |                                                                                             | Provision of access road to pump station                                                                               |    |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |    |    |
|             | SPS-1030                                                                          | GI works (5 nos, 2wf, 7 days per drill, 3 cycles)                                                                      | 21          | 01-Nov-21 A | 24-Dec-21 A | 03-Dec-21   | 03-Dec-21      | 01-Dec-21       | 24-Dec-21   |                     | 0         |                                                                                             | GI works (5 nos, 2wf, 7 days per drill, 3 cycles)                                                                      |    |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |    |    |
|             | SPS-1035                                                                          | Obtain Gi information to verify foundation design (Log and Testing in Lab)                                             | 30          | 25-Dec-21 A | 08-Apr-22   | 20-Dec-21   | 25-Dec-21      | 03-Jan-22       | 09-Feb-22   | -83                 | 0         |                                                                                             | Obtain Gi information to verify foundation design (Log and Testing in Lab)                                             |    |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |    |    |
|             | SPS-1037                                                                          | Predrilling works (7 nos, 1wf, 5 days per drill)                                                                       | 35          | 16-May-22   | 25-Jun-22   | 18-Jan-22   | 02-Mar-22      | 16-May-22       | 25-Jun-22   | -93                 | 0         |                                                                                             | Predrilling works (7 nos, 1wf, 5 days per drill)                                                                       |    |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |    |    |
|             | SPS-1040                                                                          | Piling works (26 nos socket-H piles, 4 days/pile, 1 wf)                                                                | 104         | 09-Jun-22   | 12-Oct-22   | 14-Feb-22   | 21-Jun-22      | 09-Jun-22       | 12-Oct-22   | -93                 | 0         |                                                                                             | Piling works (26 nos socket-H piles, 4 days/pile, 1 wf)                                                                |    |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |    |    |
|             | SPS-1050                                                                          | Piling testing                                                                                                         | 21          | 10-Oct-22   | 02-Nov-22   | 18-Jun-22   | 13-Jul-22      | 10-Oct-22       | 02-Nov-22   | -93                 | 0         |                                                                                             | Piling testing                                                                                                         |    |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |    |    |
|             | SPS-1055                                                                          | Proof drill (2 nos, 1wf, 5 days per drill) and report                                                                  | 17          | 13-Oct-22   | 01-Nov-22   | 23-Jun-22   | 13-Jul-22      | 13-Oct-22       | 01-Nov-22   | -92                 | 0         |                                                                                             | Proof drill (2 nos, 1wf, 5 days per drill) and report                                                                  |    |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |    |    |
|             | SPS-1060                                                                          | Sheetpiling (approx.1110 m2, sheetpile installation 50 m2/day)                                                         | 23          | 09-Apr-22   | 10-May-22   | 21-Mar-22   | 20-Apr-22      | 09-Apr-22       | 10-May-22   | -16                 | 0         |                                                                                             | Sheetpiling (approx.1110 m2, sheetpile installation 50 m2/day)                                                         |    |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |    |    |
|             | SPS-1065                                                                          | OW and DW installation and pumping test                                                                                | 54          | 11-May-22   | 14-Jul-22   | 21-Apr-22   | 24-Jun-22      | 11-May-22       | 14-Jul-22   | -16                 | 0         |                                                                                             | OW and DW installation and pumping test                                                                                |    |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |    |    |
|             | Sewers and Rising Mains                                                           | 253                                                                                                                    | 09-Apr-22   | 14-Feb-23   | 23-Mar-22   | 08-May-23   | 09-Apr-22      | 14-Feb-23       | 66          |                     |           | 09-Apr-22                                                                                   | 14-Feb-23, Sewers and Rising Mains                                                                                     |    |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |    |    |
|             | SPS-1070                                                                          | Excavation, sewer laying, construction of manhole and outfall structure, backfill and testing (approx.147m, 11mh, 1wf) | 223         | 09-Apr-22   | 06-Jan-23   | 23-Mar-22   | 19-Dec-22      | 09-Apr-22       | 06-Jan-23   | -14                 | 0         |                                                                                             | Excavation, sewer laying, construction of manhole and outfall structure, backfill and testing (approx.147m, 11mh, 1wf) |    |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |    |    |
|             | SPS-1080                                                                          | Excavation, construction of rising main and optical fibre together with backfill and testing (approx.140m, 1wf)        | 125         | 09-Apr-22   | 08-Sep-22   | 23-Jul-22   | 19-Dec-22      | 09-Apr-22       | 08-Sep-22   | 84                  | 0         |                                                                                             | Excavation, construction of rising main and optical fibre together with backfill and testing (approx.140m, 1wf)        |    |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |    |    |
|             | SPS-1090                                                                          | Testing for sewer                                                                                                      | 30          | 07-Jan-23   | 14-Feb-23   | 29-Mar-23   | 08-May-23      | 07-Jan-23       | 14-Feb-23   | 66                  | 0         |                                                                                             | Testing for sewer                                                                                                      |    |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |    |    |
|             | SPS-1100                                                                          | Testing for rising main and optical fibre                                                                              | 31          | 09-Sep-22   | 18-Oct-22   | 21-Feb-23   | 28-Mar-23      | 09-Sep-22       | 18-Oct-22   | 133                 | 0         |                                                                                             | Testing for rising main and optical fibre                                                                              |    |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |    |    |
| Stage 2     | 83                                                                                | 17-Oct-22                                                                                                              | 26-Jan-23   | 25-Jun-22   | 03-Oct-22   | 17-Oct-22   | 26-Jan-23      | -93             |             |                     | 17-Oct-22 | 26-Jan-23, Stage 2                                                                          |                                                                                                                        |    |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |    |    |
| SPS-2000    | ELS works ( approx. 4000m3, 115m3/day, structing 12day/ layer approx. only)       | 83                                                                                                                     | 17-Oct-22   | 26-Jan-23   | 25-Jun-22   | 03-Oct-22   | 17-Oct-22      | 26-Jan-23       | -93         | 0                   |           | ELS works ( approx. 4000m3, 115m3/day, structing 12day/ layer approx. only)                 |                                                                                                                        |    |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |    |    |
| Stage 3-4   | 270                                                                               | 27-Jan-23                                                                                                              | 20-Dec-23   | 05-Oct-22   | 14-Jan-26   | 27-Jan-23   | 20-Dec-23      | 611             |             |                     | 27-Jan-23 | 20-Dec-23, Stage 3-4                                                                        |                                                                                                                        |    |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |    |    |
| SPS-3000    | Retaining wall (RW 1&2) and substructure construction (850m3, 100m3/wk)           | 60                                                                                                                     | 27-Jan-23   | 11-Apr-23   | 05-Oct-22   | 13-Dec-22   | 27-Jan-23      | 11-Apr-23       | -93         | 0                   |           | Retaining wall (RW 1&2) and substructure construction (850m3, 100m3/wk)                     |                                                                                                                        |    |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |    |    |
| SPS-3010    | Superstructure construction (approx.300m3, 30m3/wk for the whole POSPS structure) | 70                                                                                                                     | 12-Apr-23   | 06-Jul-23   | 20-Dec-22   | 16-Mar-23   | 12-Apr-23      | 06-Jul-23       | -88         | 0                   |           | Superstructure construction (approx.300m3, 30m3/wk for the whole POSPS structure)           |                                                                                                                        |    |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |    |    |
| SPS-3020    | Retaining wall (RW3) construction (approx.100m3, 10m3/wk)                         | 75                                                                                                                     | 12-Apr-23   | 12-Jul-23   | 14-Dec-22   | 16-Mar-23   | 12-Apr-23      | 12-Jul-23       | -93         | 0                   |           | Retaining wall (RW3) construction (approx.100m3, 10m3/wk)                                   |                                                                                                                        |    |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |    |    |
| SPS-3030    | Transformer Room construction (approx.100m3, 15m3/wk)                             | 53                                                                                                                     | 13-Jul-23   | 03-Sep-23   | 17-Mar-23   | 08-May-23   | 13-Jul-23      | 03-Sep-23       | -118        | 0                   |           | Transformer Room construction (approx.100m3, 15m3/wk)                                       |                                                                                                                        |    |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |      |    |    |   |    |    |

|                                                                                    |                |                                                                                     |                         |                                                                                     |                   |
|------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------|-------------------------|-------------------------------------------------------------------------------------|-------------------|
|  | Summary        |  | Critical Remaining Work |  | Finish Constraint |
|  | Actual LOE     |  | Milestone               |  | No Predecessors   |
|  | Remaining LOE  |  | Crit Milestone          |  | No Successors     |
|  | Actual Work    |  | Actual Milestone        |                                                                                     |                   |
|  | Remaining Work |  | Start Constraint        |                                                                                     |                   |

**Project ID:** MP202203  
Tentative Construction Programme of DC/2020/02

Page 7 of 14

**Data Date:** 31-Mar-22  
**Printed:** 27-Apr-22 16:33  
**Layout:** SSW- 3MRP202203  
**TASK filter:** All Activities

| Date      | Revision | Checked | Approved |
|-----------|----------|---------|----------|
| 31-Mar-22 | r0       | JW      | CT       |
|           |          |         |          |
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**Project ID: MP202203**  
Tentative Construction Programme of DC/2020/02  
Page 8 of 14





|                                                                                     |                |                                                                                     |                         |                                                                                     |                   |
|-------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------|-------------------------|-------------------------------------------------------------------------------------|-------------------|
|  | Summary        |  | Critical Remaining Work |  | Finish Constraint |
|  | Actual LOE     |  | Milestone               |  | No Predecessors   |
|  | Remaining LOE  |  | Crit Milestone          |  | No Successors     |
|  | Actual Work    |  | Actual Milestone        |                                                                                     |                   |
|  | Remaining Work |  | Start Constraint        |                                                                                     |                   |

**Data Date:** 31-Mar-22  
**Printed:** 27-Apr-22 16:33  
**Layout:** SSW- 3MRP202203  
**TASK filter:** All Activities

| Date      | Revision | Checked | Approved |
|-----------|----------|---------|----------|
| 31-Mar-22 | r0       | JW      | CT       |
|           |          |         |          |
|           |          |         |          |
|           |          |         |          |



Contract No. DC/2020/02  
Construction of San Shek Wan Sewage Treatment Works,  
Associated Submarine Outfall and Pui O Sewerage Works



| Activity ID | Activity Name                                           | Original Duration                                                      | Start     | Finish     | Late Start | Late Finish | Baseline Start | Baseline Finish | Total Float | Time Risk Allowance | 2021 |    |    | 2022 |    |    |    | 2023 |    |    |    | 2024 |    |    |    | 2025 |    |    |    | 2026 |   |   |
|-------------|---------------------------------------------------------|------------------------------------------------------------------------|-----------|------------|------------|-------------|----------------|-----------------|-------------|---------------------|------|----|----|------|----|----|----|------|----|----|----|------|----|----|----|------|----|----|----|------|---|---|
|             |                                                         |                                                                        |           |            |            |             |                |                 |             |                     | Q2   | Q3 | Q4 | Q1   | Q2 | Q3 | Q4 | Q    | Q2 | Q3 | Q4 | Q1   | Q2 | Q3 | Q4 | Q    | Q2 | Q3 | Q4 | Q1   | Q | Q |
| STW-7100    | STW-7100                                                | Handover of Ground Floor                                               | 0         |            | 06-Jun-25  |             | 07-Apr-25      |                 | 06-Jun-25   | -45                 | 0    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
|             | STW-7110                                                | Handover of First Floor( DO room, Air Blower Room, Stair room& Bridge) | 0         |            | 06-Jun-25  |             | 02-May-25      |                 | 06-Jun-25   | -27                 | 0    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
|             | STW-7120                                                | Handover of First Floor( Sludge Dewatering Room & Chemical room)       | 0         |            | 17-Jul-25  |             | 11-Feb-25      |                 | 17-Jul-25   | -125                | 0    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
|             | STW-7130                                                | LV switchboard & LV switchroomelectrical installation                  | 57        | 14-May-25  | 21-Jul-25  | 27-Feb-25   | 10-May-25      | 14-May-25       | 21-Jul-25   | -59                 | 0    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
|             | STW-7140                                                | BS Installation of CLP Transformer Room                                | 38        | 14-May-25  | 27-Jun-25  | 28-May-25   | 12-Jul-25      | 14-May-25       | 27-Jun-25   | 12                  | 0    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
|             | STW-7600                                                | E&M installation for lifting appliances                                | 42        | 26-Mar-25  | 20-May-25  | 11-Aug-25   | 27-Sep-25      | 26-Mar-25       | 20-May-25   | 110                 | 0    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
|             | Secondary Treatment Area (B/F)                          |                                                                        | 123       | 06-Feb-25  | 08-Jul-25  | 06-May-25   | 27-Sep-25      | 06-Feb-25       | 08-Jul-25   | 70                  |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
|             | STW-7150                                                | MBR Tank No. 1 & No.2                                                  | 123       | 06-Feb-25  | 08-Jul-25  | 06-May-25   | 27-Sep-25      | 06-Feb-25       | 08-Jul-25   | 70                  | 0    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
|             | STW-7160                                                | Anoxic Tank No. 1 & No. 2                                              | 123       | 06-Feb-25  | 08-Jul-25  | 06-May-25   | 27-Sep-25      | 06-Feb-25       | 08-Jul-25   | 70                  | 0    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
|             | STW-7170                                                | Anoxic Tank No. 1 & No. 2                                              | 123       | 06-Feb-25  | 08-Jul-25  | 06-May-25   | 27-Sep-25      | 06-Feb-25       | 08-Jul-25   | 70                  | 0    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
|             | STW-7180                                                | RAS Tank                                                               | 123       | 06-Feb-25  | 08-Jul-25  | 06-May-25   | 27-Sep-25      | 06-Feb-25       | 08-Jul-25   | 70                  | 0    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
|             | STW-7190                                                | Distribution channel                                                   | 123       | 06-Feb-25  | 08-Jul-25  | 06-May-25   | 27-Sep-25      | 06-Feb-25       | 08-Jul-25   | 70                  | 0    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
|             | STW-7200                                                | RAS Channel                                                            | 123       | 06-Feb-25  | 08-Jul-25  | 06-May-25   | 27-Sep-25      | 06-Feb-25       | 08-Jul-25   | 70                  | 0    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
|             | STW-7210                                                | Scum Tank                                                              | 123       | 06-Feb-25  | 08-Jul-25  | 06-May-25   | 27-Sep-25      | 06-Feb-25       | 08-Jul-25   | 70                  | 0    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
|             | STW-7220                                                | Permeate Pump Area                                                     | 123       | 06-Feb-25  | 08-Jul-25  | 06-May-25   | 27-Sep-25      | 06-Feb-25       | 08-Jul-25   | 70                  | 0    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
|             | Sludge Treatment Area (B/F)                             |                                                                        | 74        | 10-Mar-25  | 11-Jun-25  | 04-Jul-25   | 27-Sep-25      | 10-Mar-25       | 11-Jun-25   | 92                  |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
|             | STW-7230                                                | Sludge Holding Tank                                                    | 74        | 10-Mar-25  | 11-Jun-25  | 04-Jul-25   | 27-Sep-25      | 10-Mar-25       | 11-Jun-25   | 92                  | 0    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
|             | STW-7240                                                | Permeate Pump Area                                                     | 74        | 10-Mar-25  | 11-Jun-25  | 04-Jul-25   | 27-Sep-25      | 10-Mar-25       | 11-Jun-25   | 92                  | 0    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
|             | Preliminary Treatment Area (B/F)                        |                                                                        | 74        | 08-Apr-25  | 10-Jul-25  | 04-Jul-25   | 27-Sep-25      | 08-Apr-25       | 10-Jul-25   | 68                  |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
|             | STW-7250                                                | Equalization Tank No. 1 - 3                                            | 74        | 08-Apr-25  | 10-Jul-25  | 04-Jul-25   | 27-Sep-25      | 08-Apr-25       | 10-Jul-25   | 68                  | 0    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
|             | STW-7260                                                | Pump Sump                                                              | 74        | 08-Apr-25  | 10-Jul-25  | 04-Jul-25   | 27-Sep-25      | 08-Apr-25       | 10-Jul-25   | 68                  | 0    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
|             | STW-7270                                                | Pump Sump Inlet Channel                                                | 74        | 08-Apr-25  | 10-Jul-25  | 04-Jul-25   | 27-Sep-25      | 08-Apr-25       | 10-Jul-25   | 68                  | 0    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
|             | STW-7280                                                | Inlet Chamber                                                          | 74        | 08-Apr-25  | 10-Jul-25  | 04-Jul-25   | 27-Sep-25      | 08-Apr-25       | 10-Jul-25   | 68                  | 0    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
|             | STW-7290                                                | Emergency Tank No. 1-4                                                 | 74        | 08-Apr-25  | 10-Jul-25  | 04-Jul-25   | 27-Sep-25      | 08-Apr-25       | 10-Jul-25   | 68                  | 0    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
|             | Ground Floor                                            |                                                                        | 142       | 06-Jun-25  | 22-Nov-25  | 08-Apr-25   | 27-Sep-25      | 06-Jun-25       | 22-Nov-25   | -45                 |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
|             | STW-7300                                                | Preliminary Treatment Area (G/F)                                       | 142       | 06-Jun-25  | 22-Nov-25  | 08-Apr-25   | 27-Sep-25      | 06-Jun-25       | 22-Nov-25   | -45                 | 0    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
|             | STW-7310                                                | Carbon Dosing Room                                                     | 142       | 06-Jun-25  | 22-Nov-25  | 08-Apr-25   | 27-Sep-25      | 06-Jun-25       | 22-Nov-25   | -45                 | 0    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
|             | STW-7320                                                | Sludge Thickening Room                                                 | 142       | 06-Jun-25  | 22-Nov-25  | 08-Apr-25   | 27-Sep-25      | 06-Jun-25       | 22-Nov-25   | -45                 | 0    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
|             | STW-7330                                                | Sludge Transfer Area                                                   | 142       | 06-Jun-25  | 22-Nov-25  | 08-Apr-25   | 27-Sep-25      | 06-Jun-25       | 22-Nov-25   | -45                 | 0    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
|             | STW-7340                                                | Membrane Maintenance Room                                              | 142       | 06-Jun-25  | 22-Nov-25  | 08-Apr-25   | 27-Sep-25      | 06-Jun-25       | 22-Nov-25   | -45                 | 0    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
|             | STW-7350                                                | Workshop                                                               | 125       | 06-Jun-25  | 03-Nov-25  | 02-May-25   | 27-Sep-25      | 06-Jun-25       | 03-Nov-25   | -28                 | 0    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
|             | STW-7360                                                | General Office Stair Room                                              | 125       | 06-Jun-25  | 03-Nov-25  | 02-May-25   | 27-Sep-25      | 06-Jun-25       | 03-Nov-25   | -28                 | 0    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
|             | STW-7370                                                | Lab                                                                    | 125       | 06-Jun-25* | 03-Nov-25  | 02-May-25   | 27-Sep-25      | 06-Jun-25       | 03-Nov-25   | -28                 | 0    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
|             | STW-7380                                                | Generator Room                                                         | 125       | 06-Jun-25  | 03-Nov-25  | 02-May-25   | 27-Sep-25      | 06-Jun-25       | 03-Nov-25   | -28                 | 0    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
|             | First Floor                                             |                                                                        | 222       | 06-Jun-25  | 02-Mar-26  | 12-Feb-25   | 27-Sep-25      | 06-Jun-25       | 02-Mar-26   | -125                |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
|             | STW-7390                                                | Sludge Dewatering Room                                                 | 188       | 17-Jul-25  | 02-Mar-26  | 12-Feb-25   | 27-Sep-25      | 17-Jul-25       | 02-Mar-26   | -125                | 0    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
|             | STW-7400                                                | Air Blower Area                                                        | 119       | 06-Jun-25  | 25-Oct-25  | 10-May-25   | 27-Sep-25      | 06-Jun-25       | 25-Oct-25   | -22                 | 0    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
|             | STW-7410                                                | Deodorization Room                                                     | 119       | 06-Jun-25  | 25-Oct-25  | 10-May-25   | 27-Sep-25      | 06-Jun-25       | 25-Oct-25   | -22                 | 0    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
|             | STW-7420                                                | Chemical Dosing Room 1                                                 | 94        | 17-Jul-25  | 06-Nov-25  | 10-Jun-25   | 27-Sep-25      | 17-Jul-25       | 06-Nov-25   | -31                 | 0    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
|             | STW-7430                                                | Chemical Dosing Room 2                                                 | 94        | 17-Jul-25  | 06-Nov-25  | 10-Jun-25   | 27-Sep-25      | 17-Jul-25       | 06-Nov-25   | -31                 | 0    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
| STW-7440    | Central Control Room                                    | 118                                                                    | 22-Jul-25 | 09-Dec-25  | 12-May-25  | 27-Sep-25   | 22-Jul-25      | 09-Dec-25       | -59         | 0                   |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
| STW-7450    | Female & make toilet                                    | 124                                                                    | 06-Jun-25 | 01-Nov-25  | 03-May-25  | 27-Sep-25   | 06-Jun-25      | 01-Nov-25       | -27         | 0                   |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
| STW-7460    | Stair Room                                              | 188                                                                    | 17-Jul-25 | 02-Mar-26  | 12-Feb-25  | 27-Sep-25   | 17-Jul-25      | 02-Mar-26       | -125        | 0                   |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
| STW-7470    | Energization of CLP                                     | 0                                                                      |           | 13-Sep-25  |            | 27-Sep-25   |                | 13-Sep-25       | 12          | 0                   |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
| E&M T&C     |                                                         | 327                                                                    | 25-Jul-25 | 29-Aug-26  | 17-Sep-25  | 29-Aug-26   | 25-Jul-25      | 29-Aug-26       | 0           |                     |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
| STW-9155    | E&M BS & ABWF installation for miscellaneous items, SAT | 60                                                                     | 03-Mar-26 | 15-May-26  | 29-Sep-25  | 10-Dec-25   | 03-Mar-26      | 15-May-26       | -125        | 0                   |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
| STW-9157    | System commissioning                                    | 50                                                                     | 16-Apr-26 | 15-Jun-26  | 12-Nov-25  | 10-Jan-26   | 16-Apr-26      | 15-Jun-26       | -125        | 0                   |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
| STW-9160    | MBR system process start up                             | 30                                                                     | 17-May-26 | 15-Jun-26  | 29-Dec-25  | 27-Jan-26   | 17-May-26      | 15-Jun-26       | -139        | 0                   |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |
| STW-9170    | Plant commissioning, T&C                                | 60                                                                     | 16-Jun-26 | 14-Aug-26  | 28-Jan-26  |             |                |                 |             |                     |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |   |   |

|  |                |  |                         |  |                   |
|--|----------------|--|-------------------------|--|-------------------|
|  | Summary        |  | Critical Remaining Work |  | Finish Constraint |
|  | Actual LOE     |  | Milestone               |  | No Predecessors   |
|  | Remaining LOE  |  | Crit Milestone          |  | No Successors     |
|  | Actual Work    |  | Actual Milestone        |  |                   |
|  | Remaining Work |  | Start Constraint        |  |                   |

Project ID: MP202203  
Tentative Construction Programme of DC/2020/02  
Page 10 of 14

Data Date: 31-Mar-22  
Printed: 27-Apr-22 16:33  
Layout: SSW- 3MRP202203  
TASK filter: All Activities

| Date      | Revision | Checked | Approved |
|-----------|----------|---------|----------|
| 31-Mar-22 | r0       | JW      | CT       |
|           |          |         |          |
|           |          |         |          |



| Activity ID           | Activity Name                                                                                                        | Original Duration | Start       | Finish      | Late Start | Late Finish | Baseline Start | Baseline Finish | Total Float | Time Risk Allowance | Risk Overlay                               |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
|-----------------------|----------------------------------------------------------------------------------------------------------------------|-------------------|-------------|-------------|------------|-------------|----------------|-----------------|-------------|---------------------|--------------------------------------------|------|----|----|------|----|----|------|----|----|------|----|----|------|----|---|----|----|----|----|---|----|--|--|
|                       |                                                                                                                      |                   |             |             |            |             |                |                 |             |                     | 2021                                       | 2022 |    |    | 2023 |    |    | 2024 |    |    | 2025 |    |    | 2026 |    |   |    |    |    |    |   |    |  |  |
|                       |                                                                                                                      |                   |             |             |            |             |                |                 |             |                     | Q2                                         | Q3   | Q4 | Q1 | Q2   | Q3 | Q4 | Q    | Q2 | Q3 | Q4   | Q1 | Q2 | Q3   | Q4 | Q | Q2 | Q3 | Q4 | Q1 | Q | Q3 |  |  |
| Submarine Outfall     |                                                                                                                      | 606               | 01-Sep-21 A | 18-Oct-23   | 01-Nov-21  | 02-Sep-24   | 01-Oct-21      | 18-Oct-23       | 259         |                     | ep-21 A 18-Oct-23, Submarine Outfall       |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| HDD2-1010             | Liaise with existing Shek Pik Supply Tunnel                                                                          | 60                | 01-Sep-21 A | 01-May-22   | 21-Nov-21  | 21-Dec-21   | 01-Oct-21      | 29-Nov-21       | -131        | 0                   | nel                                        |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| HDD                   |                                                                                                                      | 424               | 18-Nov-21 A | 08-Jun-23   | 01-Nov-21  | 23-Apr-24   | 03-Jan-22      | 08-Jun-23       | 260         |                     | 8-Nov-21 A 08-Jun-23, HDD                  |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| Preparation           |                                                                                                                      | 118               | 23-Dec-21 A | 27-May-22   | 01-Nov-21  | 05-Feb-22   | 03-Jan-22      | 28-May-22       | -90         |                     | 23-Dec-21 A 27-May-22, Preparation         |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| On Shore [Land]       |                                                                                                                      | 71                | 14-Feb-22 A | 27-May-22   | 01-Nov-21  | 05-Feb-22   | 01-Mar-22      | 27-May-22       | -90         |                     | 14-Feb-22 A 27-May-22, On Shore [Land]     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| HDD-1240              | Funiture and paving removal                                                                                          | 6                 | 14-Feb-22 A | 25-Feb-22 A | 01-Nov-21  | 01-Nov-21   | 01-Mar-22      | 07-Mar-22       |             | 0                   | ing removal                                |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| HDD-1330              | Fomation earth works from +50.4mPD to +48mPD (~6000m3), (23 trips x 6m3 24Ttrucks = 134m3 per day x 45 working days) | 45                | 15-Feb-22 A | 30-Mar-22 A | 01-Nov-21  | 01-Nov-21   | 08-Mar-22      | 04-May-22       |             | 0                   | days)                                      |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| HDD-1340              | Erection of temporary platform and footing construction for HDD                                                      | 30                | 31-Mar-22 A | 10-May-22   | 01-Nov-21  | 03-Dec-21   | 01-Apr-22      | 11-May-22       | -125        | 0                   | ion for HDD                                |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| HDD-1350              | Mud pits excavation                                                                                                  | 15                | 11-May-22   | 27-May-22   | 04-Dec-21  | 21-Dec-21   | 11-May-22      | 27-May-22       | -125        | 0                   | pits excavation                            |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| HDD-1780              | Installation of monitoring instrumentation                                                                           | 30                | 01-Apr-22   | 11-May-22   | 29-Dec-21  | 05-Feb-22   | 01-Apr-22      | 11-May-22       | -76         | 0                   | trumentation                               |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| Off Shore [Sea]       |                                                                                                                      | 118               | 23-Dec-21 A | 20-May-22   | 30-Nov-21  | 14-Jan-22   | 03-Jan-22      | 28-May-22       | -100        |                     | 23-Dec-21 A 20-May-22, Off Shore [Sea]     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| HDD-1000              | Initial Site survey on sea (after SQE plan, SU-2070)                                                                 | 30                | 23-Dec-21 A | 06-Jan-22 A | 30-Nov-21  | 30-Nov-21   | 03-Jan-22      | 09-Feb-22       |             | 0                   | J-2070)                                    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| HDD-1010              | Procurement, Prefabrication and delivery of temporary support frame for casing                                       | 45                | 01-Mar-22 A | 06-Apr-22   | 22-Dec-21  | 25-Dec-21   | 01-Apr-22      | 28-May-22       | -81         | 0                   | for casing                                 |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| HDD-1020              | Mobilization and install silt curtain for temporary marine platform                                                  | 12                | 19-Apr-22 A | 03-May-22   | 30-Nov-21  | 25-Dec-21   | 19-Apr-22      | 03-May-22       | -100        | 0                   | ne platform                                |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| HDD-1030              | Construction of temporary support frame (after MDN)                                                                  | 15                | 04-May-22   | 20-May-22   | 28-Dec-21  | 14-Jan-22   | 04-May-22      | 20-May-22       | -100        | 0                   | e (after MDN)                              |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| Procurement           |                                                                                                                      | 234               | 06-Dec-21 A | 24-Sep-22   | 23-Nov-21  | 23-May-22   | 03-Jan-22      | 17-Oct-22       | -104        |                     | 06-Dec-21 A 24-Sep-22, Procurement         |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| HDD-1360              | HDD plant design, fabrication and modification                                                                       | 40                | 06-Dec-21 A | 08-Apr-22   | 25-Nov-21  | 01-Dec-21   | 03-Jan-22      | 21-Feb-22       | -104        | 0                   | fication                                   |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| HDD-1370              | HDD material procurement such as casing and betonite, etc                                                            | 28                | 06-Dec-21 A | 14-Apr-22   | 23-Nov-21  | 04-Dec-21   | 03-Jan-22      | 07-Feb-22       | -106        | 0                   | ite, etc                                   |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| HDD-1380              | PE pipe manufacturing and delivery to HK                                                                             | 150               | 21-Mar-22 A | 24-Sep-22   | 02-Dec-21  | 23-May-22   | 19-Apr-22      | 17-Oct-22       | -104        | 0                   | elivery to HK                              |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| Delivery to HK        |                                                                                                                      | 98                | 18-Nov-21 A | 05-May-22   | 29-Nov-21  | 21-Dec-21   | 03-Jan-22      | 05-May-22       | -106        |                     | 8-Nov-21 A 05-May-22, Delivery to HK       |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| HDD-1390              | Submission to the Ministry of Commerce for HDD equipment                                                             | 58                | 18-Nov-21 A | 08-Apr-22   | 29-Nov-21  | 04-Dec-21   | 03-Jan-22      | 14-Mar-22       | -101        | 0                   | ment                                       |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| HDD-1400              | Customs clearance and plant delivery to HK, such as HDD rig, mud tank, drilling fluid processing system, etc         | 11                | 19-Apr-22   | 30-Apr-22   | 06-Dec-21  | 17-Dec-21   | 19-Apr-22      | 30-Apr-22       | -106        | 0                   | ystem, etc                                 |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| HDD-1410              | Customs clearance and plant delivery to HK, such as casing, driller, drill Pipe, reamer, etc                         | 11                | 22-Apr-22   | 05-May-22   | 09-Dec-21  | 21-Dec-21   | 22-Apr-22      | 05-May-22       | -106        | 0                   | eamer, etc                                 |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| Construction          |                                                                                                                      | 351               | 01-Apr-22   | 08-Jun-23   | 15-Dec-21  | 23-Apr-24   | 01-Apr-22      | 08-Jun-23       | 260         |                     | 01-Apr-22 08-Jun-23, Construction          |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| 1st tunnel            |                                                                                                                      | 213               | 01-Apr-22   | 16-Dec-22   | 15-Dec-21  | 13-Apr-24   | 01-Apr-22      | 16-Dec-22       | 390         |                     | 01-Apr-22 16-Dec-22, 1st tunnel            |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| Land side (HDD Rig 1) |                                                                                                                      | 126               | 28-May-22   | 27-Oct-22   | 22-Dec-21  | 28-May-22   | 28-May-22      | 27-Oct-22       | -125        |                     | 28-May-22 27-Oct-22, Land side (HDD Rig 1) |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| HDD-1250              | Mobilization & Setup of HDD equipments                                                                               | 35                | 28-May-22   | 09-Jul-22   | 22-Dec-21  | 05-Feb-22   | 28-May-22      | 09-Jul-22       | -125        | 0                   | DD equipments                              |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| HDD-1260              | Casing installation (by HDD rig)                                                                                     | 13                | 11-Jul-22   | 25-Jul-22   | 07-Feb-22  | 21-Feb-22   | 11-Jul-22      | 25-Jul-22       | -125        | 0                   | ation (by HDD rig)                         |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| HDD-1270              | Pilot hole drilling to 200m (from land to sea)(estimate drill length for per drill bit is 200m)                      | 6                 | 26-Jul-22   | 01-Aug-22   | 22-Feb-22  | 28-Feb-22   | 26-Jul-22      | 01-Aug-22       | -125        | 0                   | drill bit is 200m)                         |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| HDD-1271              | Tripping out drill pipe and change the drill bit                                                                     | 1                 | 02-Aug-22   | 02-Aug-22   | 01-Mar-22  | 01-Mar-22   | 02-Aug-22      | 02-Aug-22       | -125        | 0                   | change the drill bit                       |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| HDD-1272              | Tripping in the drill pipe and pilot hole drilling to 400m (from land to sea)                                        | 6                 | 03-Aug-22   | 09-Aug-22   | 02-Mar-22  | 08-Mar-22   | 03-Aug-22      | 09-Aug-22       | -125        | 0                   | (from land to sea)                         |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| HDD-1273              | Tripping out drill pipe and change the drill bit                                                                     | 2                 | 10-Aug-22   | 11-Aug-22   | 09-Mar-22  | 10-Mar-22   | 10-Aug-22      | 11-Aug-22       | -125        | 0                   | change the drill bit                       |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| HDD-1274              | Tripping in the drill pipe and pilot hole drilling to 600m (from land to sea)                                        | 6                 | 12-Aug-22   | 18-Aug-22   | 11-Mar-22  | 17-Mar-22   | 12-Aug-22      | 18-Aug-22       | -125        | 0                   | (from land to sea)                         |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| HDD-1275              | Tripping out drill pipe and change the drill bit                                                                     | 3                 | 19-Aug-22   | 22-Aug-22   | 18-Mar-22  | 21-Mar-22   | 19-Aug-22      | 22-Aug-22       | -125        | 0                   | change the drill bit                       |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| HDD-1276              | Tripping in the drill pipe and pilot hole drilling to 800m (from land to sea)                                        | 6                 | 23-Aug-22   | 29-Aug-22   | 22-Mar-22  | 28-Mar-22   | 23-Aug-22      | 29-Aug-22       | -125        | 0                   | (from land to sea)                         |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| HDD-1277              | Tripping out drill pipe and change the drill bit                                                                     | 4                 | 30-Aug-22   | 02-Sep-22   | 29-Mar-22  | 01-Apr-22   | 30-Aug-22      | 02-Sep-22       | -125        | 0                   | change the drill bit                       |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| HDD-1278              | Tripping in the drill pipe and pilot hole drilling to 1000m (from land to sea)                                       | 6                 | 03-Sep-22   | 09-Sep-22   | 02-Apr-22  | 09-Apr-22   | 03-Sep-22      | 09-Sep-22       | -125        | 0                   | h (from land to sea)                       |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| HDD-1279              | Tripping out drill pipe                                                                                              | 2                 | 21-Sep-22   | 22-Sep-22   | 23-Apr-22  | 25-Apr-22   | 21-Sep-22      | 22-Sep-22       | -125        | 0                   | Tripping out drill pipe                    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| HDD-1280              | Reaming (from land to sea)                                                                                           | 24                | 23-Sep-22   | 22-Oct-22   | 26-Apr-22  | 24-May-22   | 23-Sep-22      | 22-Oct-22       | -125        | 0                   | ing (from land to sea)                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| HDD-1420              | Cleaning the drill hole during reaming process                                                                       | 4                 | 24-Oct-22   | 27-Oct-22   | 25-May-22  | 28-May-22   | 24-Oct-22      | 27-Oct-22       | -125        | 0                   | uring reaming process                      |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| Sea side (HDD Rig 2)  |                                                                                                                      | 170               | 01-Apr-22   | 27-Oct-22   | 15-Dec-21  | 28-May-22   | 01-Apr-22      | 27-Oct-22       | -125        |                     | 01-Apr-22 27-Oct-22, Sea side (HDD Rig 2)  |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| HDD-1040              | Working barge maintainance & arrival in place                                                                        | 25                | 01-Apr-22*  | 05-May-22   | 15-Dec-21  | 14-Jan-22   | 01-Apr-22      | 05-May-22       | -87         | 0                   | rival in place                             |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| HDD-1045              | Barge HDD preparation work                                                                                           | 5                 | 21-May-22   | 26-May-22   | 15-Jan-22  | 20-Jan-22   | 21-May-22      | 26-May-22       | -100        | 0                   | eparation work                             |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| HDD-1046              | Mobilization and install silt curtain for casing for HDD works                                                       | 12                | 27-May-22   | 10-Jun-22   | 21-Jan-22  | 07-Feb-22   | 27-May-22      | 10-Jun-22       | -100        | 0                   | or HDD works                               |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| HDD-1050              | Casing installation (by HDD rig)                                                                                     | 39                | 11-Jun-22   | 27-Jul-22   | 08-Feb-22  | 24-Mar-22   | 11-Jun-22      | 27-Jul-22       | -100        | 0                   | ion (by HDD rig)                           |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| HDD-1060              | Pilot hole drilling to 200m (from sea to land)                                                                       | 6                 | 28-Jul-22   | 03-Aug-22   | 25-Mar-22  | 31-Mar-22   | 28-Jul-22      | 03-Aug-22       | -100        | 0                   | (from sea to land)                         |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| HDD-1070              | Tripping out drill pipe and change the drill bit                                                                     | 1                 | 04-Aug-22   | 04-Aug-22   | 01-Apr-22  | 01-Apr-22   | 04-Aug-22      | 04-Aug-22       | -100        | 0                   | change the drill bit                       |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| HDD-1430              | Pilot hole drilling to 400m (from sea to land)                                                                       | 6                 | 05-Aug-22   | 11-Aug-22   | 02-Apr-22  | 09-Apr-22   | 05-Aug-22      | 11-Aug-22       | -100        | 0                   | (from sea to land)                         |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| HDD-1440              | Tripping out drill pipe                                                                                              | 2                 | 21-Sep-22   | 22-Sep-22   | 23-Apr-22  | 25-Apr-22   | 21-Sep-22      | 22-Sep-22       | -125        | 0                   | Tripping out drill pipe                    |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| HDD-1450              | Reaming (from sea to land)                                                                                           | 24                | 23-Sep-22   | 22-Oct-22   | 26-Apr-22  | 24-May-22   | 23-Sep-22      | 22-Oct-22       | -125        | 0                   | ing (from sea to land)                     |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |
| HDD-1460              | Cleaning the drill hole during reaming process                                                                       | 4                 | 24-Oct-22   | 27-Oct-22   | 25-May-22  | 28-May-22   | 24-Oct-22      | 27-Oct-22       | -125        | 0                   | uring reaming process                      |      |    |    |      |    |    |      |    |    |      |    |    |      |    |   |    |    |    |    |   |    |  |  |

|                                                                                    |                |                                                                                     |                         |                                                                                     |                   |
|------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------|-------------------------|-------------------------------------------------------------------------------------|-------------------|
|  | Summary        |  | Critical Remaining Work |  | Finish Constraint |
|  | Actual LOE     |  | Milestone               |  | No Predecessors   |
|  | Remaining LOE  |  | Crit Milestone          |  | No Successors     |
|  | Actual Work    |  | Actual Milestone        |                                                                                     |                   |
|  | Remaining Work |  | Start Constraint        |                                                                                     |                   |

**Project ID: MP202203**  
Tentative Construction Programme of DC/2020/02  
Page 11 of 14

**Data Date:** 31-Mar-22  
**Printed:** 27-Apr-22 16:33  
**Layout:** SSW- 3MRP202203  
**TASK filter:** All Activities

| Date      | Revision | Checked | Approved |
|-----------|----------|---------|----------|
| 31-Mar-22 | r0       | JW      | CT       |
|           |          |         |          |
|           |          |         |          |
|           |          |         |          |



Contract No. DC/2020/02  
Construction of San Shek Wan Sewage Treatment Works,  
Associated Submarine Outfall and Pui O Sewerage Works



| Activity ID | Activity Name                                                                                   | Original Duration | Start     | Finish    | Late Start | Late Finish | Baseline Start | Baseline Finish | Total Float | Time Risk Allowance | 2021 |    |    |    | 2022                                |    |           |           | 2023 |           |    |    | 2024 |    |    |   | 2025 |    |    |    | 2026 |   |   |
|-------------|-------------------------------------------------------------------------------------------------|-------------------|-----------|-----------|------------|-------------|----------------|-----------------|-------------|---------------------|------|----|----|----|-------------------------------------|----|-----------|-----------|------|-----------|----|----|------|----|----|---|------|----|----|----|------|---|---|
|             |                                                                                                 |                   |           |           |            |             |                |                 |             |                     | Q2   | Q3 | Q4 | Q1 | Q2                                  | Q3 | Q4        | Q         | Q2   | Q3        | Q4 | Q1 | Q2   | Q3 | Q4 | Q | Q2   | Q3 | Q4 | Q1 | Q    | Q | Q |
|             | Intersection (HDD Rig 1&2)                                                                      | 63                | 12-Sep-22 | 25-Nov-22 | 11-Apr-22  | 28-Jun-22   | 12-Sep-22      | 25-Nov-22       | -125        |                     |      |    |    |    | 12-Sep-22                           |    |           | 25-Nov-22 |      |           |    |    |      |    |    |   |      |    |    |    |      |   |   |
| HDD-1080    | Punch Out (i.e. Pilot hole intersecting)                                                        | 8                 | 12-Sep-22 | 20-Sep-22 | 11-Apr-22  | 22-Apr-22   | 12-Sep-22      | 20-Sep-22       | -125        | 0                   |      |    |    |    | Pilot hole intersecting)            |    |           |           |      |           |    |    |      |    |    |   |      |    |    |    |      |   |   |
| HDD-1090    | Hole gauging and smoothing (from sea to land)                                                   | 25                | 28-Oct-22 | 25-Nov-22 | 30-May-22  | 28-Jun-22   | 28-Oct-22      | 25-Nov-22       | -125        | 0                   |      |    |    |    | ing (from sea to land)              |    |           |           |      |           |    |    |      |    |    |   |      |    |    |    |      |   |   |
|             | PE pipe instalation (HDD Rig 1)                                                                 | 69                | 26-Sep-22 | 16-Dec-22 | 24-May-22  | 13-Apr-24   | 26-Sep-22      | 16-Dec-22       | 390         |                     |      |    |    |    |                                     |    | 26-Sep-22 |           |      | 16-Dec-22 |    |    |      |    |    |   |      |    |    |    |      |   |   |
| HDD-1100    | PE pipe laboratory testing and submit the testing report to JV                                  | 28                | 26-Sep-22 | 29-Oct-22 | 26-May-22  | 28-Jun-22   | 26-Sep-22      | 29-Oct-22       | -102        | 0                   |      |    |    |    | e testing report to JV              |    |           |           |      |           |    |    |      |    |    |   |      |    |    |    |      |   |   |
| HDD-1105    | PE pipe pre-fabricated to 36m                                                                   | 30                | 26-Sep-22 | 01-Nov-22 | 24-May-22  | 28-Jun-22   | 26-Sep-22      | 01-Nov-22       | -104        | 0                   |      |    |    |    | pre-fabricated to 36m               |    |           |           |      |           |    |    |      |    |    |   |      |    |    |    |      |   |   |
| HDD-1110    | PE pipe pulling (from sea to land)                                                              | 11                | 26-Nov-22 | 08-Dec-22 | 29-Jun-22  | 12-Jul-22   | 26-Nov-22      | 08-Dec-22       | -125        | 0                   |      |    |    |    | pulling (from sea to land)          |    |           |           |      |           |    |    |      |    |    |   |      |    |    |    |      |   |   |
| HDD-1120    | 1st PE Pipe testing                                                                             | 7                 | 09-Dec-22 | 16-Dec-22 | 06-Apr-24  | 13-Apr-24   | 09-Dec-22      | 16-Dec-22       | 390         | 0                   |      |    |    |    | 1st PE Pipe testing                 |    |           |           |      |           |    |    |      |    |    |   |      |    |    |    |      |   |   |
|             | 2nd tunnel                                                                                      | 137               | 09-Dec-22 | 30-May-23 | 13-Jul-22  | 22-Dec-22   | 09-Dec-22      | 30-May-23       | -125        |                     |      |    |    |    |                                     |    | 09-Dec-22 |           |      | 30-May-23 |    |    |      |    |    |   |      |    |    |    |      |   |   |
|             | Land side (HDD Rig 1)                                                                           | 101               | 09-Dec-22 | 15-Apr-23 | 13-Jul-22  | 10-Nov-22   | 09-Dec-22      | 15-Apr-23       | -125        |                     |      |    |    |    |                                     |    | 09-Dec-22 |           |      | 15-Apr-23 |    |    |      |    |    |   |      |    |    |    |      |   |   |
| HDD-1480    | HDD rig moved to the 2nd HDD                                                                    | 10                | 09-Dec-22 | 20-Dec-22 | 13-Jul-22  | 23-Jul-22   | 09-Dec-22      | 20-Dec-22       | -125        | 0                   |      |    |    |    | g moved to the 2nd HDD              |    |           |           |      |           |    |    |      |    |    |   |      |    |    |    |      |   |   |
| HDD-1500    | Casing installation (by HDD rig)                                                                | 13                | 21-Dec-22 | 06-Jan-23 | 25-Jul-22  | 08-Aug-22   | 21-Dec-22      | 06-Jan-23       | -125        | 0                   |      |    |    |    | g installation (by HDD rig)         |    |           |           |      |           |    |    |      |    |    |   |      |    |    |    |      |   |   |
| HDD-1520    | Pilot hole drilling to 200m (from land to sea)(estimate drill length for per drill bit is 200m) | 6                 | 07-Jan-23 | 13-Jan-23 | 09-Aug-22  | 15-Aug-22   | 07-Jan-23      | 13-Jan-23       | -125        | 0                   |      |    |    |    | for per drill bit is 200m)          |    |           |           |      |           |    |    |      |    |    |   |      |    |    |    |      |   |   |
| HDD-1610    | Tripping out drill pipe and change the drill bit                                                | 1                 | 14-Jan-23 | 14-Jan-23 | 16-Aug-22  | 16-Aug-22   | 14-Jan-23      | 14-Jan-23       | -125        | 0                   |      |    |    |    | pe and change the drill bit         |    |           |           |      |           |    |    |      |    |    |   |      |    |    |    |      |   |   |
| HDD-1620    | Tripping in the drill pipe and pilot hole drilling to 400m (from land to sea)                   | 6                 | 16-Jan-23 | 21-Jan-23 | 17-Aug-22  | 23-Aug-22   | 16-Jan-23      | 21-Jan-23       | -125        | 0                   |      |    |    |    | 400m (from land to sea)             |    |           |           |      |           |    |    |      |    |    |   |      |    |    |    |      |   |   |
| HDD-1630    | Tripping out drill pipe and change the drill bit                                                | 2                 | 26-Jan-23 | 27-Jan-23 | 24-Aug-22  | 25-Aug-22   | 26-Jan-23      | 27-Jan-23       | -125        | 0                   |      |    |    |    | pe and change the drill bit         |    |           |           |      |           |    |    |      |    |    |   |      |    |    |    |      |   |   |
| HDD-1640    | Tripping in the drill pipe and pilot hole drilling to 600m (from land to sea)                   | 6                 | 28-Jan-23 | 03-Feb-23 | 26-Aug-22  | 01-Sep-22   | 28-Jan-23      | 03-Feb-23       | -125        | 0                   |      |    |    |    | o 600m (from land to sea)           |    |           |           |      |           |    |    |      |    |    |   |      |    |    |    |      |   |   |
| HDD-1650    | Tripping out drill pipe and change the drill bit                                                | 3                 | 04-Feb-23 | 07-Feb-23 | 02-Sep-22  | 05-Sep-22   | 04-Feb-23      | 07-Feb-23       | -125        | 0                   |      |    |    |    | ipe and change the drill bit        |    |           |           |      |           |    |    |      |    |    |   |      |    |    |    |      |   |   |
| HDD-1660    | Tripping in the drill pipe and pilot hole drilling to 800m (from land to sea)                   | 6                 | 08-Feb-23 | 14-Feb-23 | 06-Sep-22  | 13-Sep-22   | 08-Feb-23      | 14-Feb-23       | -125        | 0                   |      |    |    |    | o 800m (from land to sea)           |    |           |           |      |           |    |    |      |    |    |   |      |    |    |    |      |   |   |
| HDD-1670    | Tripping out drill pipe and change the drill bit                                                | 4                 | 15-Feb-23 | 18-Feb-23 | 14-Sep-22  | 17-Sep-22   | 15-Feb-23      | 18-Feb-23       | -125        | 0                   |      |    |    |    | pipe and change the drill bit       |    |           |           |      |           |    |    |      |    |    |   |      |    |    |    |      |   |   |
| HDD-1675    | Tripping in the drill pipe and pilot hole drilling to 1000m (from land to sea)                  | 6                 | 20-Feb-23 | 25-Feb-23 | 19-Sep-22  | 24-Sep-22   | 20-Feb-23      | 25-Feb-23       | -125        | 0                   |      |    |    |    | o 1000m (from land to sea)          |    |           |           |      |           |    |    |      |    |    |   |      |    |    |    |      |   |   |
| HDD-1680    | Tripping out drill pipe                                                                         | 2                 | 08-Mar-23 | 09-Mar-23 | 07-Oct-22  | 08-Oct-22   | 08-Mar-23      | 09-Mar-23       | -125        | 0                   |      |    |    |    | Tripping out drill pipe             |    |           |           |      |           |    |    |      |    |    |   |      |    |    |    |      |   |   |
| HDD-1695    | Reaming (from land to sea)                                                                      | 24                | 10-Mar-23 | 11-Apr-23 | 10-Oct-22  | 05-Nov-22   | 10-Mar-23      | 11-Apr-23       | -125        | 0                   |      |    |    |    | Reaming (from land to sea)          |    |           |           |      |           |    |    |      |    |    |   |      |    |    |    |      |   |   |
| HDD-1700    | Cleaning the drill hole during reaming process                                                  | 4                 | 12-Apr-23 | 15-Apr-23 | 07-Nov-22  | 10-Nov-22   | 12-Apr-23      | 15-Apr-23       | -125        | 0                   |      |    |    |    | l hole during reaming process       |    |           |           |      |           |    |    |      |    |    |   |      |    |    |    |      |   |   |
|             | Sea side (HDD Rig 2)                                                                            | 101               | 09-Dec-22 | 15-Apr-23 | 20-Jul-22  | 10-Nov-22   | 09-Dec-22      | 15-Apr-23       | -125        |                     |      |    |    |    |                                     |    | 09-Dec-22 |           |      | 15-Apr-23 |    |    |      |    |    |   |      |    |    |    |      |   |   |
| HDD-1467    | Barge relocation to the 2nd HDD                                                                 | 5                 | 09-Dec-22 | 14-Dec-22 | 20-Jul-22  | 25-Jul-22   | 09-Dec-22      | 14-Dec-22       | -119        | 0                   |      |    |    |    | elocation to the 2nd HDD            |    |           |           |      |           |    |    |      |    |    |   |      |    |    |    |      |   |   |
| HDD-1470    | Casing installation (by HDD rig)                                                                | 39                | 15-Dec-22 | 03-Feb-23 | 26-Jul-22  | 08-Sep-22   | 15-Dec-22      | 03-Feb-23       | -119        | 0                   |      |    |    |    | g installation (by HDD rig)         |    |           |           |      |           |    |    |      |    |    |   |      |    |    |    |      |   |   |
| HDD-1490    | Pilot hole drilling to 200m (from sea to land)                                                  | 6                 | 04-Feb-23 | 10-Feb-23 | 09-Sep-22  | 16-Sep-22   | 04-Feb-23      | 10-Feb-23       | -119        | 0                   |      |    |    |    | to 200m (from sea to land)          |    |           |           |      |           |    |    |      |    |    |   |      |    |    |    |      |   |   |
| HDD-1510    | Tripping out drill pipe and change the drill bit                                                | 1                 | 11-Feb-23 | 11-Feb-23 | 17-Sep-22  | 17-Sep-22   | 11-Feb-23      | 11-Feb-23       | -119        | 0                   |      |    |    |    | pipe and change the drill bit       |    |           |           |      |           |    |    |      |    |    |   |      |    |    |    |      |   |   |
| HDD-1710    | Pilot hole drilling to 400m (from sea to land)                                                  | 6                 | 13-Feb-23 | 18-Feb-23 | 19-Sep-22  | 24-Sep-22   | 13-Feb-23      | 18-Feb-23       | -119        | 0                   |      |    |    |    | to 400m (from sea to land)          |    |           |           |      |           |    |    |      |    |    |   |      |    |    |    |      |   |   |
| HDD-1720    | Tripping out drill pipe                                                                         | 2                 | 08-Mar-23 | 09-Mar-23 | 07-Oct-22  | 08-Oct-22   | 08-Mar-23      | 09-Mar-23       | -125        | 0                   |      |    |    |    | Tripping out drill pipe             |    |           |           |      |           |    |    |      |    |    |   |      |    |    |    |      |   |   |
| HDD-1730    | Reaming (from sea to land)                                                                      | 24                | 10-Mar-23 | 11-Apr-23 | 10-Oct-22  | 05-Nov-22   | 10-Mar-23      | 11-Apr-23       | -125        | 0                   |      |    |    |    | Reaming (from sea to land)          |    |           |           |      |           |    |    |      |    |    |   |      |    |    |    |      |   |   |
| HDD-1740    | Cleaning the drill hole during reaming process                                                  | 4                 | 12-Apr-23 | 15-Apr-23 | 07-Nov-22  | 10-Nov-22   | 12-Apr-23      | 15-Apr-23       | -125        | 0                   |      |    |    |    | l hole during reaming process       |    |           |           |      |           |    |    |      |    |    |   |      |    |    |    |      |   |   |
|             | Intersection (HDD Rig 1&2)                                                                      | 63                | 27-Feb-23 | 16-May-23 | 26-Sep-22  | 09-Dec-22   | 27-Feb-23      | 16-May-23       | -125        |                     |      |    |    |    |                                     |    | 27-Feb-23 |           |      | 16-May-23 |    |    |      |    |    |   |      |    |    |    |      |   |   |
| HDD-1550    | Punch Out (i.e. Pilot hole intersecting)                                                        | 8                 | 27-Feb-23 | 07-Mar-23 | 26-Sep-22  | 06-Oct-22   | 27-Feb-23      | 07-Mar-23       | -125        | 0                   |      |    |    |    | t (i.e. Pilot hole intersecting)    |    |           |           |      |           |    |    |      |    |    |   |      |    |    |    |      |   |   |
| HDD-1560    | Hole gauging and smoothing (from sea to land)                                                   | 25                | 17-Apr-23 | 16-May-23 | 11-Nov-22  | 09-Dec-22   | 17-Apr-23      | 16-May-23       | -125        | 0                   |      |    |    |    | d smoothing (from sea to land)      |    |           |           |      |           |    |    |      |    |    |   |      |    |    |    |      |   |   |
|             | PE pipe instalation (HDD Rig 1)                                                                 | 36                | 17-Apr-23 | 30-May-23 | 11-Nov-22  | 22-Dec-22   | 17-Apr-23      | 30-May-23       | -125        |                     |      |    |    |    |                                     |    | 17-Apr-23 |           |      | 30-May-23 |    |    |      |    |    |   |      |    |    |    |      |   |   |
| HDD-1580    | PE pipe connection                                                                              | 25                | 17-Apr-23 | 16-May-23 | 11-Nov-22  | 09-Dec-22   | 17-Apr-23      | 16-May-23       | -125        | 0                   |      |    |    |    | PE pipe connection                  |    |           |           |      |           |    |    |      |    |    |   |      |    |    |    |      |   |   |
| HDD-1590    | PE pipe pulling (from sea to land)                                                              | 11                | 17-May-23 | 30-May-23 | 10-Dec-22  | 22-Dec-22   | 17-May-23      | 30-May-23       | -125        | 0                   |      |    |    |    | PE pipe pulling (from sea to land)  |    |           |           |      |           |    |    |      |    |    |   |      |    |    |    |      |   |   |
|             | Testing and demolization                                                                        | 8                 | 31-May-23 | 08-Jun-23 | 23-Dec-22  | 23-Apr-24   | 31-May-23      | 08-Jun-23       | 260         |                     |      |    |    |    |                                     |    | 31-May-23 |           |      | 08-Jun-23 |    |    |      |    |    |   |      |    |    |    |      |   |   |
| HDD-1750    | 2nd PE Pipe testing after pulling works                                                         | 6                 | 31-May-23 | 06-Jun-23 | 15-Apr-24  | 20-Apr-24   | 31-May-23      | 06-Jun-23       | 260         | 0                   |      |    |    |    | PE Pipe testing after pulling works |    |           |           |      |           |    |    |      |    |    |   |      |    |    |    |      |   |   |
| HDD-1760    | Demobilization of HDD equipments and plants (land side)                                         | 8                 | 31-May-23 | 08-Jun-23 | 23-Dec-22  | 03-Jan-24   | 31-May-23      | 08-Jun-23       | -125        | 0                   |      |    |    |    | equipments and plants (land side)   |    |           |           |      |           |    |    |      |    |    |   |      |    |    |    |      |   |   |
| HDD-1770    | Pack up anchor and working barge left                                                           | 2                 | 07-Jun-23 | 08-Jun-23 | 22-Apr-24  | 23-Apr-24   | 07-Jun-23      | 08-Jun-23       | 260         | 0                   |      |    |    |    | up anchor and working barge left    |    |           |           |      |           |    |    |      |    |    |   |      |    |    |    |      |   |   |

|  |                |  |                         |  |                   |
|--|----------------|--|-------------------------|--|-------------------|
|  | Summary        |  | Critical Remaining Work |  | Finish Constraint |
|  | Actual LOE     |  | Milestone               |  | No Predecessors   |
|  | Remaining LOE  |  | Crit Milestone          |  | No Successors     |
|  | Actual Work    |  | Actual Milestone        |  |                   |
|  | Remaining Work |  | Start Constraint        |  |                   |

Project ID: MP202203  
Tentative Construction Programme of DC/2020/02  
Page 12 of 14

Data Date: 31-Mar-22  
Printed: 27-Apr-22 16:33  
Layout: SSW- 3MRP202203  
TASK filter: All Activities

| Date      | Revision | Checked | Approved |
|-----------|----------|---------|----------|
| 31-Mar-22 | r0       | JW      | CT       |
|           |          |         |          |
|           |          |         |          |





Contract No. DC/2020/02  
Construction of San Shek Wan Sewage Treatment Works,  
Associated Submarine Outfall and Pui O Sewerage Works



| Activity ID | Activity Name                                                   | Original Duration                                                                                                 | Start | Finish      | Late Start  | Late Finish | Baseline Start | Baseline Finish | Total Float | Time Risk Allowance | 2021 |                                                                                       |    |    | 2022 |    |    |    | 2023 |    |    |    | 2024 |    |    |    | 2025 |    |    |    | 2026 |    |    |    |    |    |    |  |  |
|-------------|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-------|-------------|-------------|-------------|----------------|-----------------|-------------|---------------------|------|---------------------------------------------------------------------------------------|----|----|------|----|----|----|------|----|----|----|------|----|----|----|------|----|----|----|------|----|----|----|----|----|----|--|--|
|             |                                                                 |                                                                                                                   |       |             |             |             |                |                 |             |                     | Q2   | Q3                                                                                    | Q4 | Q1 | Q2   | Q3 | Q4 | Q1 | Q2   | Q3 | Q4 | Q1 | Q2   | Q3 | Q4 | Q1 | Q2   | Q3 | Q4 | Q1 | Q2   | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 |  |  |
|             | DIFF-2060                                                       | Install concrete anchor block, class 1 marker buoy and removal of silt curtain together with demobilization works | 12    | 05-Oct-23   | 18-Oct-23   | 20-Aug-24   | 02-Sep-24      | 05-Oct-23       | 18-Oct-23   | 260                 | 0    | together with demobilization works.                                                   |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |    |    |  |  |
|             | Remaining Trunk Sewers, Rising Mains & Emergency Discharge Pipe |                                                                                                                   | 1288  | 02-Nov-21 A | 01-Apr-26   | 01-Aug-23   | 29-Aug-26      | 01-Dec-21       | 01-Apr-26   | 122                 |      | 01-Apr-26                                                                             |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |    |    |  |  |
|             | R-1000                                                          | Remaining Trunk Sewers, Rising Mains & Emergency Discharge Pipe                                                   | 920   | 01-Apr-22   | 10-May-25   | 21-Mar-26   | 21-Mar-26      | 01-Apr-22       | 10-May-25   | 260                 | 0    | Large Pipe                                                                            |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |    |    |  |  |
|             | Portion C1 / SSWTW Section                                      |                                                                                                                   | 609   | 02-Nov-21 A | 16-Dec-23   | 04-Dec-23   | 29-Aug-26      | 01-Dec-21       | 16-Dec-23   | 801                 |      | 16-Dec-23; Portion C1 / SSWTW Section                                                 |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |    |    |  |  |
|             | C1-1000                                                         | TTA application for Portion C1/ SSWTW Section (Plan ID 1303703) (TTA with 24hrs permit)                           | 240   | 02-Nov-21 A | 17-Aug-22   | 04-Dec-23   | 22-Apr-24      | 01-Dec-21       | 21-Sep-22   | 498                 | 0    | it)                                                                                   |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |    |    |  |  |
|             | C1-1010                                                         | Excavation, construction of rising main together with backfill and testing (approx.173m,1wf)                      | 110   | 18-Aug-22   | 28-Dec-22   | 23-Apr-24   | 02-Sep-24      | 18-Aug-22       | 28-Dec-22   | 498                 | 0    | approx.173m,1wf)                                                                      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |    |    |  |  |
|             | C1-1020                                                         | Excavation, sewer laying, construction of manhole together with backfill and testing (approx.343m, 8mh, 1wf)      | 288   | 29-Dec-22   | 16-Dec-23   | 11-Sep-25   | 29-Aug-26      | 29-Dec-22       | 16-Dec-23   | 801                 | 0    | approx.343m, 8mh, 1wf)                                                                |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |    |    |  |  |
|             | Portion C1 / Lo Wai Tsuen Section                               |                                                                                                                   | 891   | 02-Nov-21 A | 28-Nov-24   | 01-Aug-23   | 28-Mar-26      | 01-Dec-21       | 28-Nov-24   | 394                 |      | 28-Nov-24; Portion C1 / Lo Wai Tsuen Section                                          |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |    |    |  |  |
|             | C3-1000                                                         | TTA application for Portion C1/ Lo Wai Tsuen Section (Plan ID 1303702) (TTA with 24hrs permit)                    | 240   | 02-Nov-21 A | 17-Aug-22   | 01-Aug-23   | 12-Dec-23      | 01-Dec-21       | 21-Sep-22   | 394                 | 0    | it)                                                                                   |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |    |    |  |  |
|             | C3-1010                                                         | Excavation, sewer laying, construction of manhole together with backfill and testing (approx.751m, 28mh, 1wf)     | 680   | 18-Aug-22   | 28-Nov-24   | 13-Dec-23   | 28-Mar-26      | 18-Aug-22       | 28-Nov-24   | 394                 | 0    | 51m, 28mh, 1wf)                                                                       |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |    |    |  |  |
|             | Portion C1,C2 / Remain Section                                  |                                                                                                                   | 647   | 24-Nov-23   | 27-Jan-26   | 24-Jan-24   | 28-Mar-26      | 24-Nov-23       | 27-Jan-26   | 49                  |      | 24-Nov-23                                                                             |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |    |    |  |  |
|             | C2-1000                                                         | TTA application for Portion C1,C2 Remain Section (Plan ID 1307099, 1307120, 1307306) (TTA with 24hrs permit)      | 30    | 24-Nov-23   | 30-Dec-23   | 24-Jan-24   | 29-Feb-24      | 24-Nov-23       | 30-Dec-23   | 49                  | 0    | 0, 1307306) (TTA with 24hrs permit)                                                   |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |    |    |  |  |
|             | C2-1010                                                         | Excavation, construction of rising main together with backfill and testing (approx.353m, 3wf)                     | 321   | 02-Jan-24   | 28-Jan-25   | 01-Mar-24   | 29-Mar-25      | 02-Jan-24       | 28-Jan-25   | 49                  | 0    | backfill and testing (approx.353m, 3wf)                                               |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |    |    |  |  |
|             | C2-1020                                                         | Excavation, sewer laying, construction of manhole together with backfill and testing (approx.223m, 8mh, 3wf)      | 296   | 01-Feb-25   | 27-Jan-26   | 31-Mar-25   | 28-Mar-26      | 01-Feb-25       | 27-Jan-26   | 49                  | 0    | together with backfill and testing (approx.223m, 8mh, 3wf)                            |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |    |    |  |  |
|             | Portion C2 / Plan ID 1303704                                    |                                                                                                                   | 596   | 02-Apr-24   | 01-Apr-26   | 26-Mar-24   | 28-Mar-26      | 02-Apr-24       | 01-Apr-26   | -3                  |      | 02-Apr-24                                                                             |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |    |    |  |  |
|             | C2-1060                                                         | TTA application for Portion C2 btw SSWSTW and Lo Uk (Plan ID 1303704) (TTA with 24hrs permit)                     | 30    | 02-Apr-24   | 08-May-24   | 26-Mar-24   | 04-May-24      | 02-Apr-24       | 08-May-24   | -3                  | 0    | (Plan ID 1303704) (TTA with 24hrs permit)                                             |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |    |    |  |  |
|             | C2-1062                                                         | Excavation, sewer laying, construction of manhole together with backfill and testing (approx.100m, 4mh, 1wf)      | 566   | 09-May-24   | 01-Apr-26   | 06-May-24   | 28-Mar-26      | 09-May-24       | 01-Apr-26   | -3                  | 0    | backfill and testing (approx.100m, 4mh, 1wf)                                          |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |    |    |  |  |
|             | Area E & Emergency Discharge Pipe                               |                                                                                                                   | 466   | 19-Oct-23   | 17-May-25   | 03-Sep-24   | 28-Mar-26      | 19-Oct-23       | 17-May-25   | 260                 |      | 19-Oct-23                                                                             |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |    |    |  |  |
|             | E-1000                                                          | Excavation, sewer laying, construction of manhole, backfill and testing (approx.600m 11mh, 1wf) (After C1)        | 400   | 19-Oct-23   | 22-Feb-25   | 03-Sep-24   | 07-Jan-26      | 19-Oct-23       | 22-Feb-25   | 260                 | 0    | approx.600m 11mh, 1wf) (After C1)                                                     |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |    |    |  |  |
|             | E-1010                                                          | Excavation, construction of rising main together with backfill and testing                                        | 51    | 19-Oct-23   | 18-Dec-23   | 07-Nov-25   | 07-Jan-26      | 19-Oct-23       | 18-Dec-23   | 609                 | 0    | rain together with backfill and testing                                               |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |    |    |  |  |
|             | E-1015                                                          | Mobilization and install silt curtain for emergency discharge pipe                                                | 12    | 10-Feb-25   | 22-Feb-25   | 23-Dec-25   | 07-Jan-26      | 10-Feb-25       | 22-Feb-25   | 260                 | 0    | lization and install silt curtain for emergency discharge pipe                        |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |    |    |  |  |
|             | E-1020                                                          | Construction of outfall structure - Excavation & preparation of formation                                         | 24    | 24-Feb-25   | 22-Mar-25   | 08-Jan-26   | 04-Feb-26      | 24-Feb-25       | 22-Mar-25   | 260                 | 0    | onstruction of outfall structure - Excavation & preparation of formation              |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |    |    |  |  |
|             | E-1030                                                          | Construction of outfall structure - Levelling layer & installation of precast outfall                             | 12    | 24-Mar-25   | 07-Apr-25   | 05-Feb-26   | 21-Feb-26      | 24-Mar-25       | 07-Apr-25   | 260                 | 0    | tfall structure - Levelling layer & installation of precast outfall                   |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |    |    |  |  |
|             | E-1040                                                          | Construction of outfall structure - Construction of pipe insert with concrete surround                            | 12    | 08-Apr-25   | 24-Apr-25   | 23-Feb-26   | 07-Mar-26      | 08-Apr-25       | 24-Apr-25   | 260                 | 0    | tructure - Construction of pipe insert with concrete surround                         |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |    |    |  |  |
|             | E-1050                                                          | Construction of outfall structure - Backfilling & reinstatement of existing ground profile                        | 12    | 25-Apr-25   | 10-May-25   | 09-Mar-26   | 21-Mar-26      | 25-Apr-25       | 10-May-25   | 260                 | 0    | tructure - Backfilling & reinstatement of existing ground profile                     |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |    |    |  |  |
|             | E-1060                                                          | Construction of outfall structure - Demobilization                                                                | 6     | 12-May-25   | 17-May-25   | 23-Mar-26   | 28-Mar-26      | 12-May-25       | 17-May-25   | 260                 | 0    | onstruction of outfall structure - Demobilization                                     |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |    |    |  |  |
|             | Section 4 MIC site office                                       |                                                                                                                   | 158   | 01-Apr-21 A | 11-Dec-21 A | 28-Mar-26   | 28-Mar-26      | 01-Jun-21       | 07-Dec-21   |                     |      | 11-Dec-21 A, Section 4 MIC site office                                                |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |    |    |  |  |
|             | Site Accommodation                                              |                                                                                                                   | 158   | 01-Apr-21 A | 11-Dec-21 A | 28-Mar-26   | 28-Mar-26      | 01-Jun-21       | 07-Dec-21   |                     |      | 11-Dec-21 A, Site Accommodation                                                       |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |    |    |  |  |
|             | MIC-1000                                                        | Access date for site accommodation (Location subject to PM's instruction)                                         | 0     | 01-Apr-21 A |             | 28-Mar-26   |                | 01-Jun-21       |             | 0                   |      | ◆ Access date for site accommodation (Location subject to PM's instruction)           |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |    |    |  |  |
|             | MIC-3130                                                        | Site survey, leveling and setting out works                                                                       | 1     | 05-Jul-21 A | 09-Jul-21 A | 28-Mar-26   | 28-Mar-26      | 31-Jul-21       | 31-Jul-21   | 0                   |      | Site survey, leveling and setting out works                                           |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |    |    |  |  |
|             | MIC-3260                                                        | Substantial completion for MIC accommodation                                                                      | 0     |             | 29-Sep-21 A |             | 28-Mar-26      |                 | 30-Sep-21   | 0                   |      | ◆ Substantial completion for MIC accommodation                                        |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |    |    |  |  |
|             | MIC-3270                                                        | Completion for MIC accommodation                                                                                  | 0     |             | 29-Sep-21 A |             | 28-Mar-26      |                 | 06-Nov-21   | 0                   |      | ◆ Completion for MIC accommodation                                                    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |    |    |  |  |
|             | MIC Site Accommodation by Techoy                                |                                                                                                                   | 128   | 19-Jun-21 A | 30-Nov-21 A | 28-Mar-26   | 28-Mar-26      | 02-Jul-21       | 01-Dec-21   |                     |      | 21 A 30-Nov-21 A, MIC Site Accommodation by Techoy                                    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |    |    |  |  |
|             | MIC-3010                                                        | Manufacture MIC unit in Yard Including Factory Inspection [Insufficient mains electricity supply in China]        | 30    | 19-Jun-21 A | 27-Aug-21 A | 28-Mar-26   | 28-Mar-26      | 02-Jul-21       | 05-Aug-21   |                     | 0    | ■ Manufacture MIC unit in Yard Including Factory Inspection [Insufficient mains elect |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |    |    |  |  |
|             | MIC-3020                                                        | Delivery of MIC Unit to Site (1st Batch) 12 out of 52 modules                                                     | 3     | 24-Jul-21 A | 31-Jul-21 A | 28-Mar-26   | 28-Mar-26      | 10-Aug-21       | 12-Aug-21   |                     | 0    | Delivery of MIC Unit to Site (1st Batch) 12 out of 52 modules                         |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |    |    |  |  |
|             | MIC-3030                                                        | Delivery of MIC Unit to Site (2nd Batch) 20 out of 52 modules                                                     | 3     | 02-Aug-21 A | 10-Aug-21 A | 28-Mar-26   | 28-Mar-26      | 02-Oct-21       | 05-Oct-21   |                     | 0    | Delivery of MIC Unit to Site (2nd Batch) 20 out of 52 modules                         |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |    |    |  |  |
|             | MIC-3040                                                        | Delivery of MIC Unit to Site (3rd Batch) 20 out of 52 modules                                                     | 3     | 23-Aug-21 A | 31-Aug-21 A | 28-Mar-26   | 28-Mar-26      | 02-Oct-21       | 05-Oct-21   |                     | 0    | Delivery of MIC Unit to Site (3rd Batch) 20 out of 52 modules                         |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |    |    |  |  |
|             | MIC-3050                                                        | Concreting of Footing & On-grade (150m3, 0.3m thk.)                                                               | 6     | 12-Jul-21 A | 21-Jul-21 A | 28-Mar-26   | 28-Mar-26      | 05-Aug-21       | 11-Aug-21   |                     | 0    | Concreting of Footing & On-grade (150m3, 0.3m thk.)                                   |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |    |    |  |  |
|             | MIC-3055                                                        | Installation of MIC Office on Site (Including Touch up of Partion, Door, Window, Glass Panes & Finishing)         | 26    | 24-Jul-21 A | 20-Sep-21 A | 28-Mar-26   | 28-Mar-26      | 04-Aug-21       | 02-Sep-21   |                     | 0    | ■ Installation of MIC Office on Site (Including Touch up of Partion, Door, Window, G  |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |    |    |  |  |
|             | MIC-3060                                                        | Installation of E&M, Dranlage & Fitting Works and other Necessary Works for Construction of MIC Office            | 24    | 16-Aug-21 A | 28-Sep-21 A | 28-Mar-26   | 28-Mar-26      | 02-Oct-21       | 30-Oct-21   |                     | 0    | ■ Installation of E&M, Dranlage & Fitting Works and other Necessary Works for Co      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |    |    |  |  |
|             | MIC-3070                                                        | Installation of Cat Ladder                                                                                        | 5     | 01-Sep-21 A | 06-Sep-21 A | 28-Mar-26   | 28-Mar-26      | 02-Oct-21       | 07-Oct-21   |                     | 0    | Installation of Cat Ladder                                                            |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |    |    |  |  |
|             | MIC-3080                                                        | Testing and Commissioning (T&C)                                                                                   | 3     | 21-Sep-21 A | 28-Sep-21 A | 28-Mar-26   | 28-Mar-26      | 02-Oct-21       | 05-Oct-21   |                     | 0    | Testing and Commissioning (T&C)                                                       |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |    |    |  |  |
|             | MIC-3090                                                        | Pratical Completion                                                                                               | 0     | 29-Sep-21 A | 29-Sep-21 A | 28-Mar-26   | 28-Mar-26      | 06-Oct-21       | 06-Oct-21   |                     | 0    | Pratical Completion                                                                   |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |    |    |  |  |
|             | MIC-3100                                                        | Defect Rectification                                                                                              | 6     | 30-Sep-21 A | 30-Nov-21 A | 28-Mar-26   | 28-Mar-26      | 01-Nov-21       | 06-Nov-21   |                     | 0    | ■ Defect Rectification                                                                |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |    |    |    |  |  |



Contract No. DC/2020/02  
Construction of San Shek Wan Sewage Treatment Works,  
Associated Submarine Outfall and Pui O Sewerage Works



| Activity ID                       | Activity Name                                                                                                           | Original Duration | Start       | Finish      | Late Start | Late Finish | Baseline Start | Baseline Finish | Total Float | Time Risk Allowance | 2021 |    |    | 2022 |    |    |    | 2023 |    |    |    | 2024 |    |    |    | 2025 |    |    |    | 2026 |    |    |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|-------------|------------|-------------|----------------|-----------------|-------------|---------------------|------|----|----|------|----|----|----|------|----|----|----|------|----|----|----|------|----|----|----|------|----|----|
|                                   |                                                                                                                         |                   |             |             |            |             |                |                 |             |                     | Q2   | Q3 | Q4 | Q1   | Q2 | Q3 | Q4 | Q1   | Q2 | Q3 | Q4 | Q1   | Q2 | Q3 | Q4 | Q1   | Q2 | Q3 | Q4 | Q1   | Q2 | Q3 |
| MIC-3105                          | Furniture, Fixtures, and Equipment                                                                                      | 5                 | 20-Sep-21 A | 28-Sep-21 A | 28-Mar-26  | 28-Mar-26   | 06-Oct-21      | 11-Oct-21       |             | 0                   |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| MIC-3110                          | Cleaning & Handover                                                                                                     | 1                 | 30-Nov-21 A | 30-Nov-21 A | 28-Mar-26  | 28-Mar-26   | 01-Dec-21      | 01-Dec-21       |             | 0                   |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| Civil Works at Site Office        |                                                                                                                         | 158               | 17-May-21 A | 11-Dec-21 A | 28-Mar-26  | 28-Mar-26   | 01-Jun-21      | 07-Dec-21       |             |                     |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| MIC-3160                          | Sublet civil works at site office package                                                                               | 12                | 17-May-21 A | 01-Jun-21 A | 28-Mar-26  | 28-Mar-26   | 01-Jun-21      | 15-Jun-21       |             | 0                   |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| MIC-3250                          | Procurement and delivery of project sign board                                                                          | 35                | 27-Sep-21 A | 30-Nov-21 A | 28-Mar-26  | 28-Mar-26   | 02-Oct-21      | 12-Nov-21       |             | 0                   |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| Stage 1 - For site office footing |                                                                                                                         | 11                | 09-Jun-21 A | 10-Jul-21 A | 28-Mar-26  | 28-Mar-26   | 03-Jul-21      | 15-Jul-21       |             |                     |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| MIC-3120                          | Site clearance, remove existing chain link fence (90m) and 500mm high dwarf wall (20m)                                  | 11                | 09-Jun-21 A | 19-Jun-21 A | 28-Mar-26  | 28-Mar-26   | 03-Jul-21      | 15-Jul-21       |             | 0                   |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| MIC-3140                          | Remove existing paving (500m2) & soil (100m3); and fill soil for ground leveling (30m3) [Incement Weather 22-29 Jun 21] | 10                | 21-Jun-21 A | 10-Jul-21 A | 28-Mar-26  | 28-Mar-26   | 03-Jul-21      | 14-Jul-21       |             | 0                   |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| Stage 2 - Remaining works         |                                                                                                                         | 108               | 21-Jun-21 A | 11-Dec-21 A | 28-Mar-26  | 28-Mar-26   | 31-Jul-21      | 07-Dec-21       |             |                     |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| MIC-3170                          | Site clearance, remove 500mm high dwarf wall (60m)                                                                      | 9                 | 21-Jun-21 A | 20-Aug-21 A | 28-Mar-26  | 28-Mar-26   | 31-Jul-21      | 10-Aug-21       |             | 0                   |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| MIC-3182                          | Installation of vehicle access gate & pedestrain gate and erection of guard house                                       | 5                 | 11-Oct-21 A | 11-Dec-21 A | 28-Mar-26  | 28-Mar-26   | 01-Nov-21      | 05-Nov-21       |             | 0                   |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| MIC-3183                          | Erection of fence/hoarding (120m)                                                                                       | 12                | 16-Aug-21 A | 07-Sep-21 A | 28-Mar-26  | 28-Mar-26   | 21-Oct-21      | 03-Nov-21       |             | 0                   |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| MIC-3184                          | Remove remaining existing paving (1500m2) & soil (300m3); and fill soil for ground leveling (70m3)                      | 16                | 12-Jul-21 A | 13-Aug-21 A | 28-Mar-26  | 28-Mar-26   | 31-Jul-21      | 18-Aug-21       |             | 0                   |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| MIC-3185                          | Cast concrete slab 150mm thk with A393 steel mesh approx. 1000m2 - Stage 1                                              | 12                | 16-Aug-21 A | 08-Sep-21 A | 28-Mar-26  | 28-Mar-26   | 28-Oct-21      | 10-Nov-21       |             | 0                   |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| MIC-3188                          | Install sewage storage tank (2x3x1.5)                                                                                   | 3                 | 23-Aug-21 A | 26-Aug-21 A | 28-Mar-26  | 28-Mar-26   | 28-Oct-21      | 30-Oct-21       |             | 0                   |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| MIC-3190                          | Install cross road duct 5 x 150mm dia approx. 16m long for water, power supply and telecom connect to office            | 12                | 27-Aug-21 A | 10-Sep-21 A | 28-Mar-26  | 28-Mar-26   | 28-Oct-21      | 10-Nov-21       |             | 0                   |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| MIC-3213                          | Construction of 300mm U channel with A252, 200m long and accociated 5 nos of catchpit                                   | 12                | 12-Jul-21 A | 31-Aug-21 A | 28-Mar-26  | 28-Mar-26   | 19-Aug-21      | 01-Sep-21       |             | 0                   |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| MIC-3220                          | Cast remaining concrete slab 150mm thk with A393 steel mesh approx. 500m2 - Stage 2                                     | 6                 | 06-Sep-21 A | 18-Sep-21 A | 28-Mar-26  | 28-Mar-26   | 18-Oct-21      | 23-Oct-21       |             | 0                   |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |
| MIC-3240                          | Erection of Project Sign Board with support                                                                             | 6                 | 01-Dec-21 A | 04-Dec-21 A | 28-Mar-26  | 28-Mar-26   | 01-Dec-21      | 07-Dec-21       |             | 0                   |      |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |    |      |    |    |

|  |                |  |                         |  |                   |
|--|----------------|--|-------------------------|--|-------------------|
|  | Summary        |  | Critical Remaining Work |  | Finish Constraint |
|  | Actual LOE     |  | Milestone               |  | No Predecessors   |
|  | Remaining LOE  |  | Crit Milestone          |  | No Successors     |
|  | Actual Work    |  | Actual Milestone        |  |                   |
|  | Remaining Work |  | Start Constraint        |  |                   |

Project ID: MP202203  
Tentative Construction Programme of DC/2020/02  
Page 14 of 14

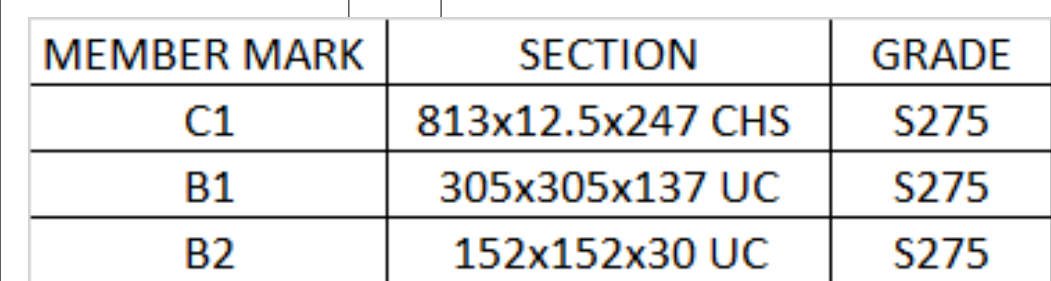
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Layout: SSW- 3MRP202203  
TASK filter: All Activities

| Date      | Revision | Checked | Approved |
|-----------|----------|---------|----------|
| 31-Mar-22 | r0       | JW      | CT       |
|           |          |         |          |
|           |          |         |          |

Appendix B – Typical Details of Proposed Silt Curtain

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Silt  
curtain  
extent



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## Marine supporting platform & HDD works



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### Stage 3

#### Dredging

Silt curtain extent

## TREATMENT WORKS BOUNDARY

10m

10m

MD

C1

C1

ALL

GENERAL NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METRES REFER TO MPD UNLESS OTHERWISE STATED.
  2. ALL WORKS TO BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING CODE OF PRACTICES:
    - (a) CODE OF PRACTICE FOR THE STRUCTURAL USE OF STEEL 2011
    - (b) CODE OF PRACTICE ON WIND EFFECTS IN HONG KONG 2019
    - (c) PORTWORKS DESIGN MANUAL PART 1
    - (d) GEO PUBLICATION NO. 1/2006
    - (e) GEO PUBLICATION NO. 1/1996
    - (f) BUILDING (CONSTRUCTION) REGULATIONS
  3. THE CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR THE ERECTION, MAINTENANCE AND REMOVAL OF ALL TEMPORARY WORKS DURING CONSTRUCTION.
  4. NO VESSEL MOORING IS ALLOWED, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
  5. SUBJECT TO LIMITED GROUND INVESTIGATION INFORMATION, DESIGN REVIEW SHALL BE CARRIED OUT TO CONFIRM THE TENTATIVE FOUNDING LEVEL AND TENTATIVE MEMBER SECTION IS ADEQUATE FOR STRUCTURAL STABILITY.
- NOTES FOR STRUCTURAL STEELWORKS:**
1. ALL STRUCTURAL STEELWORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE CODE OF PRACTICE FOR THE STRUCTURAL USE OF STEEL 2011.
  2. ALL STRUCTURAL STEEL SECTION SHALL BE WELDABLE STRUCTURAL STEEL OF GRADE S275 TO BS EN 10025 AND BS EN 10210 UNLESS OTHERWISE SPECIFIED
  3. ALL CONNECTION BOLT SHALL BE GRADE 8.8 TO BS 3692 UNLESS OTHERWISE SPECIFIED.
  4. RED LEAD ANTI-CORROSIVE PAINT SHALL BE APPLIED FOR METAL WORKS ABOVE SEAWATER LEVEL.

NOTES ON WELDING:

1. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER HIS PROPOSED PROCEDURE FOR WELDING. THE PROCEDURE WILL BE TESTED TO MEET THE REQUIREMENTS AS GIVEN IN ANNEX A1.4.2 OF STRUCTURAL USE OF STEEL (HK 2011).
2. THE CONTRACTOR SHALL ONLY USE QUALIFIED WELDERS WHO HAVE DEMONSTRATED THEIR COMPETENCE IN WELDING TO THE AGREED PROCEDURE. EACH WELDER WILL BE TESTED TO MEET THE REQUIREMENTS AS GIVEN IN ANNEX A1.4.3 OF STRUCTURAL USE OF STEEL (HK 2011).
3. ALL WELDS SHALL BE SUBJECT TO VISUAL INSPECTION BY COMPETENT PERSON TO ENSURE THAT THE WORKS ARE CARRIED OUT IN ACCORDANCE WITH THE CERTIFIED DRAWINGS AND THAT THE REQUIRED STANDARDS ARE MET. INSPECTION OF WELDS SHALL BE IN ACCORDANCE WITH BS EN 970: 1997. NON-DESTRUCTIVE TEST FOR BUTT WELD SHALL BE IN ACCORDANCE WITH BS3298: PART 1 OR PART 2 BS2600 : PART 1 OR PART 2 OR BS5210. NON-DESTRUCTIVE TEST FOR FILLET WELD SHALL BE IN ACCORDANCE WITH BS6443 OR BS6072. UPON REQUESTED BY THE ENGINEER, WELDS WILL BE TESTED BY ULTRASONIC EXAMINATION TO BS EN 1714-1998.
4. UNLESS OTHERWISE APPROVED, ALL SPLICES TO BE CONTINUOUS FULL PENETRATION BUTT WELD. DESIGN STRENGTH SHALL BE TREATED AS PARENT METAL.
5. ALL IMPROPER MATERIALS (e.g. SLAG, DIRT, IRREGULARITIES, OIL ETC) TO BE REMOVED FROM JOINTS PRIOR TO WELDING.
6. UNLESS OTHERWISE STATED, ALL FILLET WELDS SHALL BE 6MM ALL ROUND. DESIGN STRENGTH SHALL BE 220MPa FOR GRADE S275

## FOUNDING CRITERIA

THE FOUNDING LEVEL OF STEEL PILE SHALL MEET EITHER OF THE FOLLOWING REQUIREMENTS:

1. PILE SHALL BE DRIVEN TO ~22 MPD AND THE CRITERIA OF "MINIMUM PENETRATION RATE" AS DESCRIBED IN THE "NOTES ON PILE INSTALLATION".
2. DRIVEN TO REFUSAL SUCH THAT THE PENETRATION RATE IS MINIMAL. THE PILE IS THEN DEEMED TO BE FOUNDED ON HARD STRATUM SUCH AS BEDROCK. IN CASE PILE IS DRIVEN TO REFUSAL WITH EMBEDDED PILE LENGTH SHORTER THAN 4T (13.5m). LATERAL AND VERTICAL STABILITY OF PILE SHALL BE REVIEWED TO ENSURE THAT THE CAPACITY OF THE PILE IS ADEQUATE. FOR PILES NOT REACHING THE SPECIFIED TOE LEVEL, PILE VERTICAL CAPACITY SHALL BE REVIEWED SPECIFICALLY.

### NOTES ON PILE INSTALLATION

(BY VIBRATION HAMMER)

1. THE PILE FOUNDING CRITERIA IS BASED ON:
  - (a) LATERAL STABILITY OF THE PILE UNDER "LONG PILE CONDITION".
  - (b) THE PILE IS DRIVEN TO "REFUSAL" BY THE PROPOSED VIBRATION HAMMER WITH SPECIFIED PENETRATION RATE (SEE NOTE 3 BELOW AND NOTE 2 IN FOUNDING CRITERIA).
  - (c) FOUNDING LEVEL BASED ON STATIC FORMULA WITH F.O.S. OF 1.2 FOR INDIVIDUAL PLATFORM (SEE NOTE 4 (b)).
2. THE FOLLOWING INFORMATION SHALL BE RECORDED FOR EACH PILE INSTALLED:
  - (a) SEALED / GROUND LEVEL
  - (b) AS-BUILT FOUNDING LEVEL
  - (c) AS-BUILT CUT-OFF LEVEL
  - (d) PLOT IN GRAPHICAL FORMAT OF PENETRATION RATE VS DEPTH  
(WHICH DEMONSTRATES THAT THE MINIMUM PENETRATION RATE HAS BEEN ACHIEVED)
  - (e) THE PLOT AS DEFINED IN ITEM (d) ABOVE SHALL ALSO INCLUDE AN OVERLAY OF THE INFERRED GEOLOGICAL PROFILE AT THE PILE LOCATION
3. THE "MINIMUM PENETRATION RATE" IS 0.15 METRES PER MINUTE.
4. AS SUBSOL / BEDROCK PROFILE VARIES, PILE SHALL BE DRIVEN BY VIBRATION HAMMER MODEL 50H4 (6.5 TON WITHOUT CLAMPING HEAD) OR EQUIVALENT TO MEET FOUNDING CRITERIA.

SECTION OF DIFFUSER INSTALLTION  
SCALE 1 : 75

A diagram showing a semi-circle with its center labeled 'A' and a radius labeled 'r'.

-22mPD

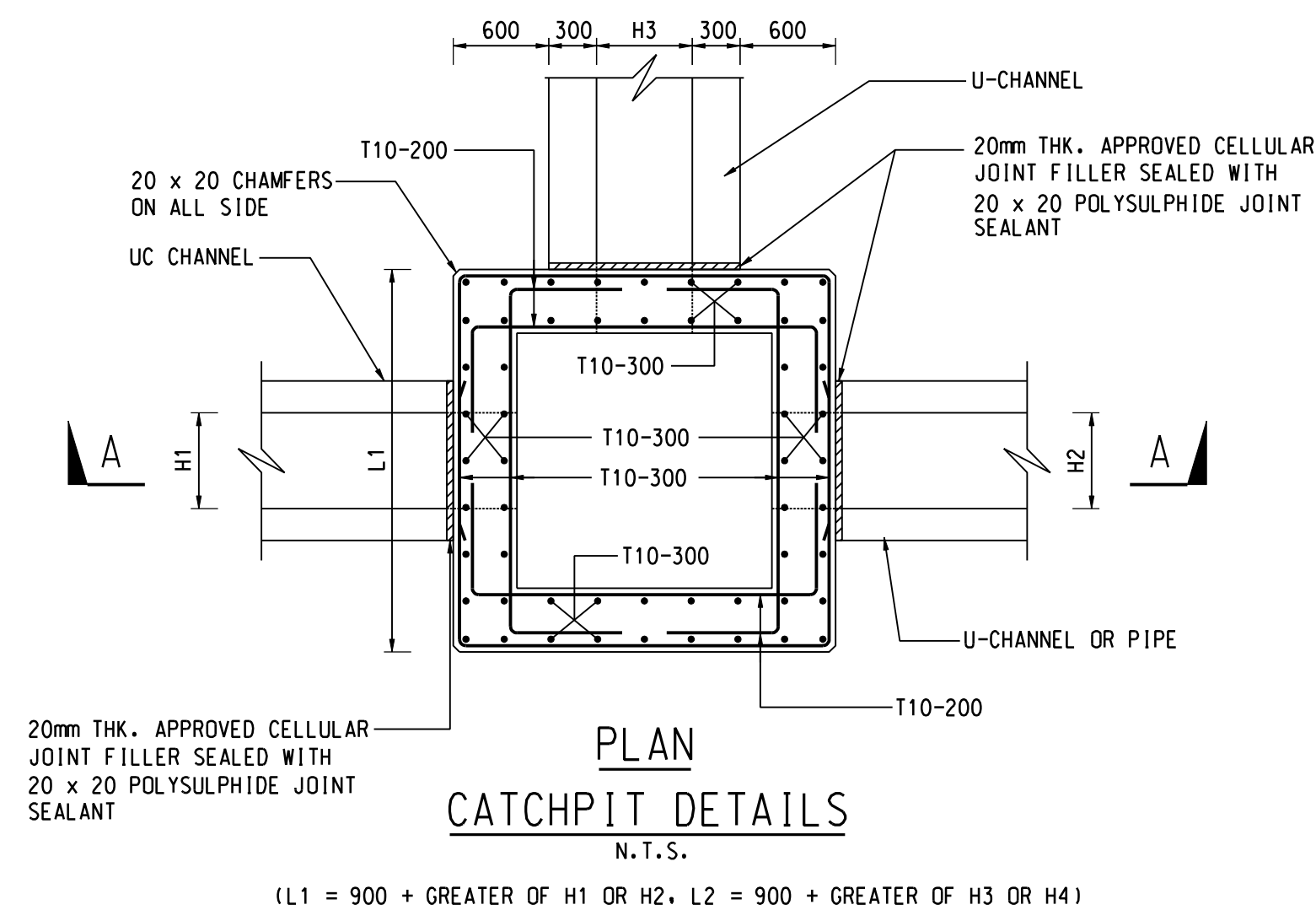
|                                                                                                                                                                                                                                               |                     |    |  |                  |  |              |            |                    |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----|--|------------------|--|--------------|------------|--------------------|--|
|                                                                                                                                                                                                                                               |                     |    |  |                  |  |              |            |                    |  |
|                                                                                                                                                                                                                                               |                     |    |  |                  |  |              |            |                    |  |
|                                                                                                                                                                                                                                               |                     |    |  |                  |  |              |            |                    |  |
|                                                                                                                                                                                                                                               |                     |    |  |                  |  |              |            |                    |  |
| Rev.<br>修訂                                                                                                                                                                                                                                    | Description<br>內容摘要 |    |  |                  |  |              | By<br>設計   | Date<br>日期         |  |
| <div><div></div><div>香港特別行政區政府渠務署<br/>THE GOVERNMENT OF THE<br/>HONG KONG<br/>SPECIAL ADMINISTRATIVE REGION<br/>DRAINAGE SERVICES DEPARTMENT</div></div> |                     |    |  |                  |  |              |            |                    |  |
| Project Manager's Representative                                                                                                                                                                                                              |                     |    |  |                  |  |              |            |                    |  |
| <div></div>                                                                                                                                              |                     |    |  |                  |  |              |            |                    |  |
| Contractor                                                                                                                                                                                                                                    |                     |    |  |                  |  |              |            |                    |  |
| <div></div>                                                                                                                                              |                     |    |  |                  |  |              |            |                    |  |
| Supported by                                                                                                                                                                                                                                  |                     |    |  |                  |  |              |            |                    |  |
| <div><br/>Member of the SNC-Lavalin Group</div>                                                                                                          |                     |    |  |                  |  |              |            |                    |  |
| Project title<br>工程名稱                                                                                                                                                                                                                         |                     |    |  |                  |  |              |            |                    |  |
| Contract No. DC/2020/02<br>CONSTRUCTION OF SAN SHEK<br>WAN SEWAGE TREATMENT<br>WORKS, ASSOCIATED<br>SUBMARINE OUTFALL AND PUI O<br>SEWERAGE WORKS                                                                                             |                     |    |  |                  |  |              |            |                    |  |
| Drawing title<br>圖紙名稱                                                                                                                                                                                                                         |                     |    |  |                  |  |              |            |                    |  |
| TEMPORARY CONNECTION AT<br>TIE-IN POINT OF SUBMARINE<br>OUTFALL                                                                                                                                                                               |                     |    |  |                  |  |              |            |                    |  |
| Drawing no.<br>圖紙編號                                                                                                                                                                                                                           |                     |    |  |                  |  |              | Rev.<br>修訂 |                    |  |
| CJ2103DC1-SK-002                                                                                                                                                                                                                              |                     |    |  |                  |  |              | -          |                    |  |
| Drawn By<br>繪圖                                                                                                                                                                                                                                |                     | JC |  | Checked By<br>覆核 |  | FT           |            | Approved By<br>批准人 |  |
| JC                                                                                                                                                                                                                                            |                     |    |  |                  |  |              |            | JC                 |  |
| Scale<br>比例                                                                                                                                                                                                                                   |                     |    |  | 1 : 75           |  | Status<br>階段 |            | -                  |  |

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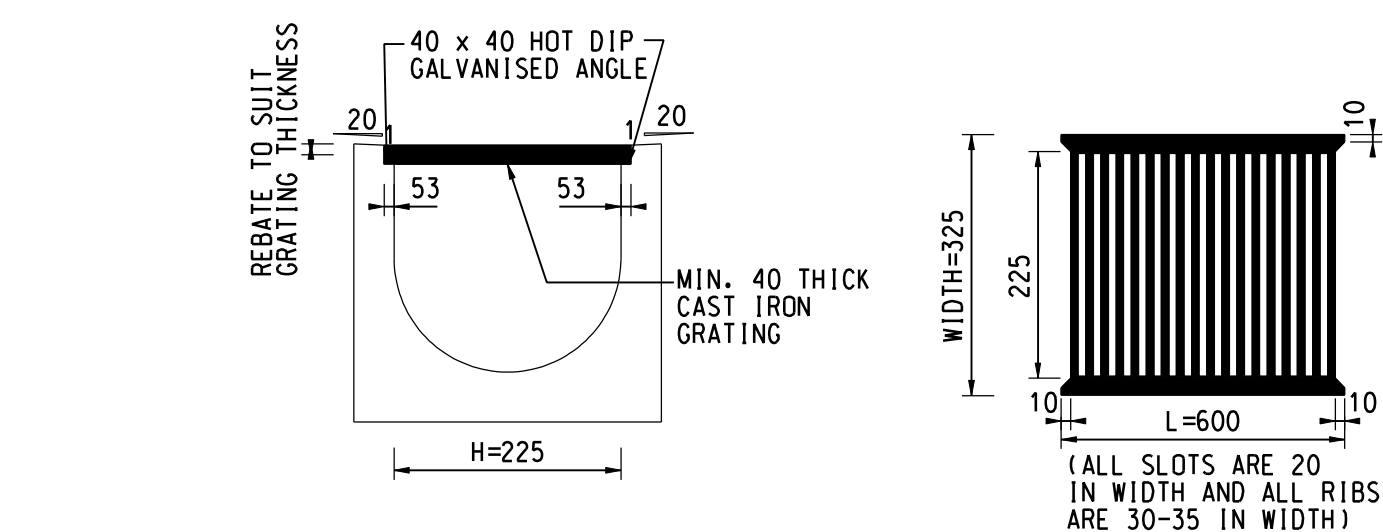
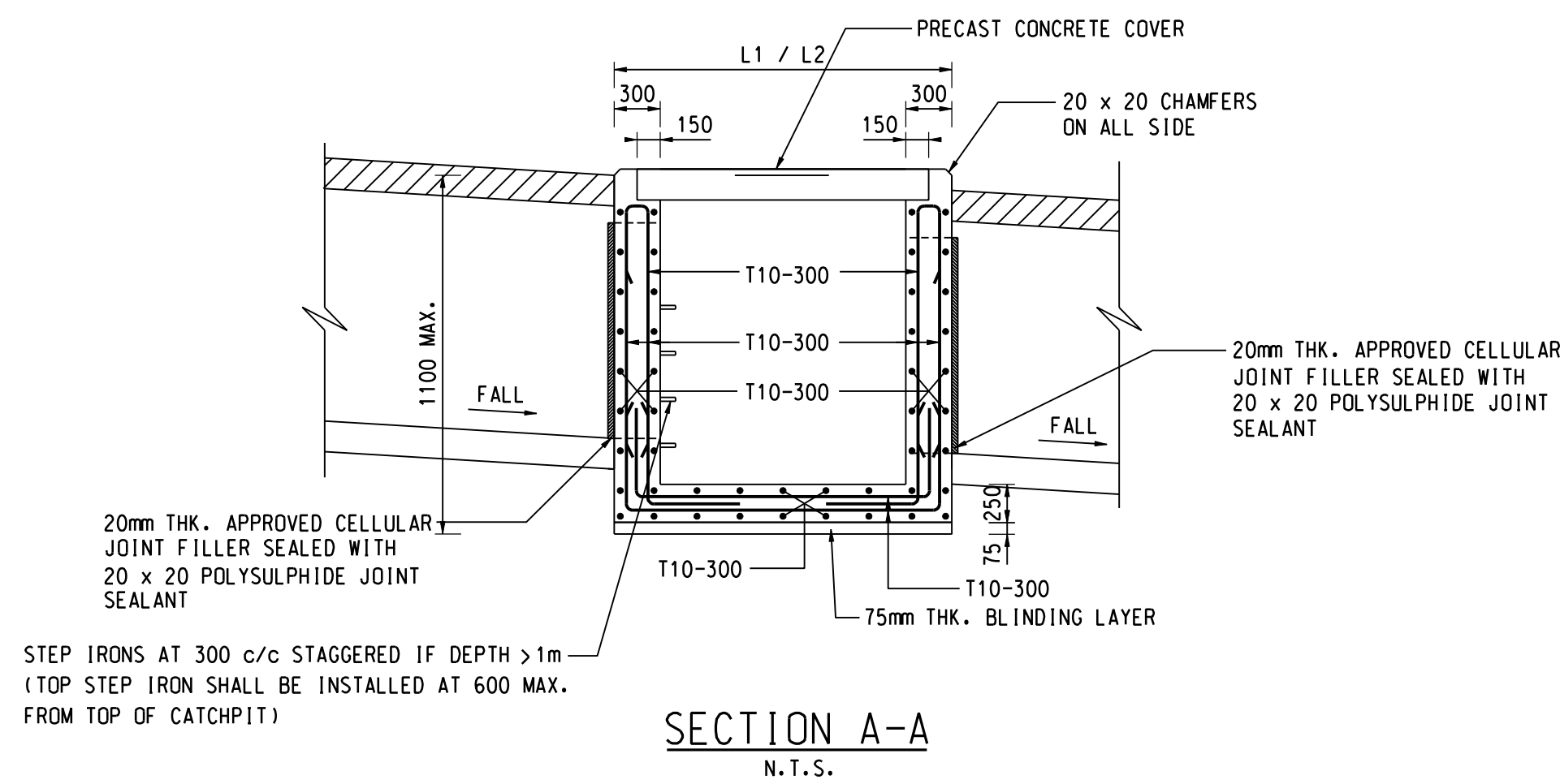


# Stage 4

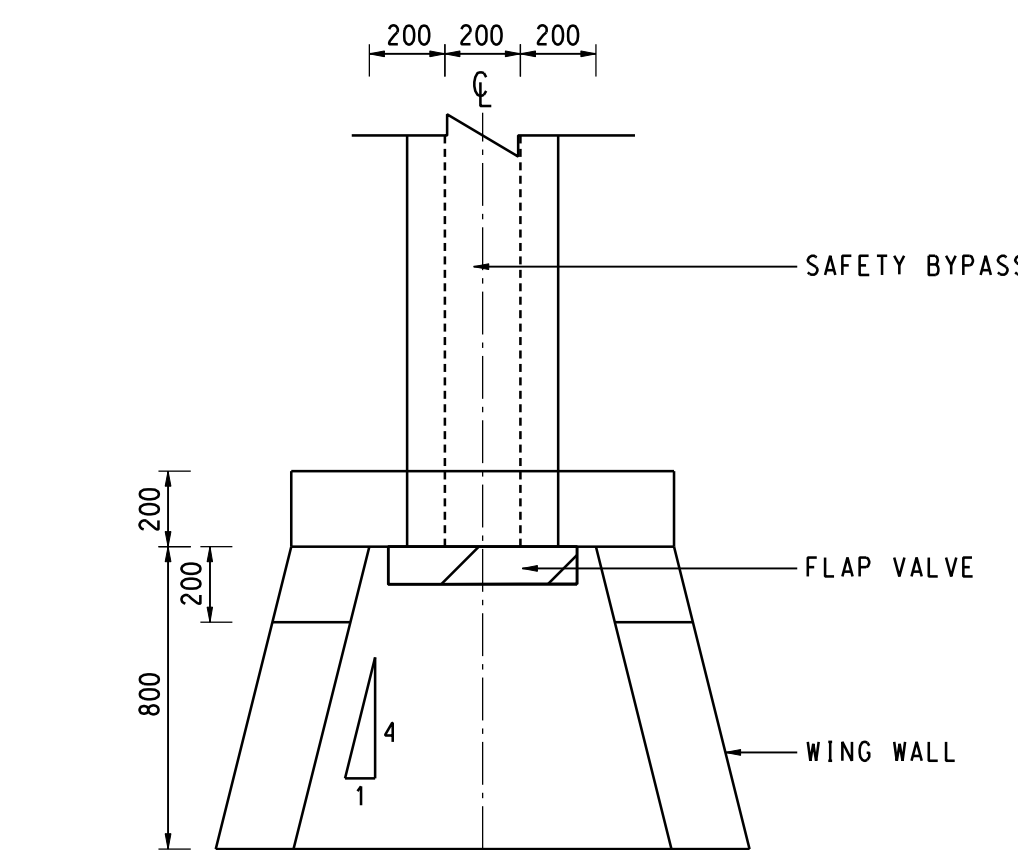
## Construction and installation of pre-cast emergency outfall



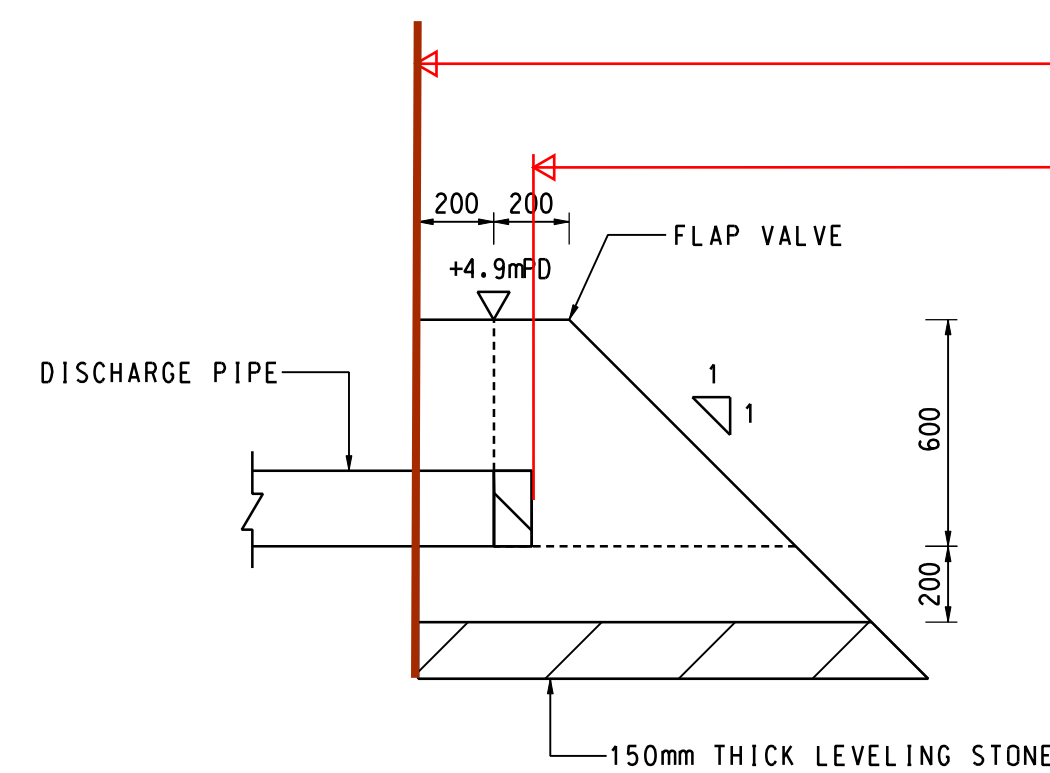
(L1 = 900 + GREATER OF H1 OR H2, L2 = 900 + GREATER OF H3 OR H4)



TYPICAL SECTION OF U-CHANNEL WITH CAST IRON GRATING  
N.T.S.



PLAN VIEW OF OUTFALL STRUCTURE  
N.T.S.  
(FLAP VALVE DETAILS NOT SHOWN FOR CLARITY)

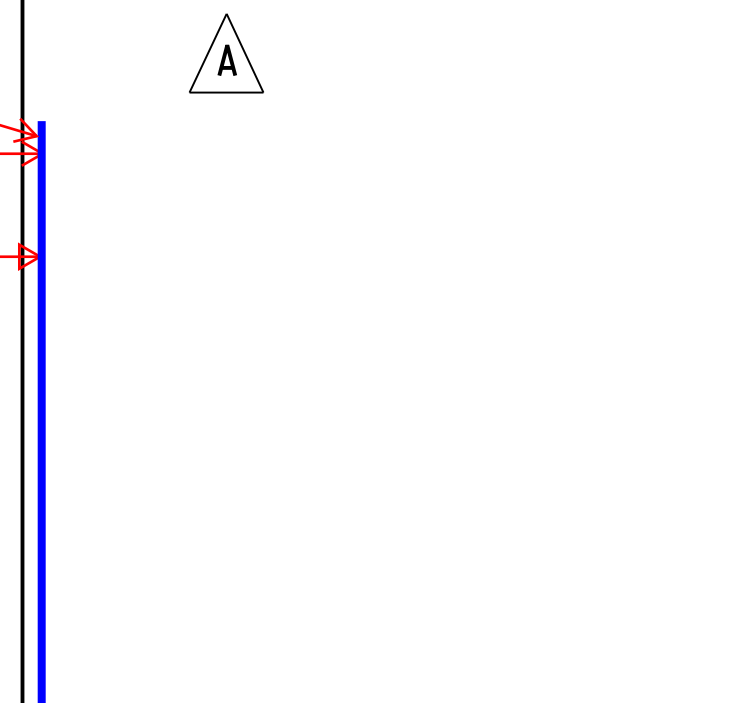


SIDE VIEW OF OUTFALL STRUCTURE  
N.T.S.  
(FLAP VALVE DETAILS NOT SHOWN FOR CLARITY)

Silt curtain  
extent

5m

- FOR LOCATION OF OUTFALL, REFERS TO DRAWING NO.178711/B&V/SSWSTW/SR/001.
- CONCRETE FOR OUTFALL STRUCTURE SHALL BE GRADE 50/20 WITH DESIGN MIX PREPARED IN ACCORDANCE WITH CEDD'S PUBLICATIONS "RECOMMENDED SPECIFICATION FOR REINFORCED CONCRETE IN MARINE ENVIRONMENT" AND CONCRETE COVER TO MAIN REINFORCEMENT SHALL BE 75mm. THE CLASS OF EXTERNAL FINISH SHALL BE F2 FOR FORMED FINISH AND U3 FOR UNFORMED FINISH, AND INTERNAL FINISH SHALL BE F4 FOR FORMED FINISH AND U5 FOR UNFORMED FINISH.
- FLAP VALVE SHALL BE OF A PROPRIETY BRAND PRODUCT. THE CONTRACTOR SHALL SUBMIT THE PARTICULARS OF THE FLAP VALVE, PREPARE NECESSARY SHOP DRAWINGS AND PROPOSE THE EXACT LOCATION OF THE FLAP VALVE FOR APPROVAL BY THE ENGINEER.
- REINFORCEMENT FOR THE OUTFALL SHALL BE A252 MESH PLACED CENTRALLY.
- ALIGNMENT OF THE DRAINAGE OUTLET SHOULD BE DETERMINED ON SITE BY PROJECT MANAGER TO SUIT ACTUAL SITE CONDITIONS.



| Revision | Date     | Description | Initial |
|----------|----------|-------------|---------|
|          | Designed | Checked     | Drawn   |
| Initial  | TFL      | BL          | SZ      |
| Date     | 04/20    | 04/20       | 04/20   |

Approved  
*Christina*

Contract no.  
DC/2020/02

Contract title  
CONSTRUCTION OF SAN SHEK WAN SEWAGE TREATMENT WORKS, ASSOCIATED SUBMARINE OUTFALL AND PU/O SEWERAGE WORKS

Drawing title  
TYPICAL DRAINAGE DETAILS

Drawing no.  
178711/B&V/CS/001

Revision  
A

Scale  
N.T.S.

香港特別行政區政府渠務署  
THE GOVERNMENT OF THE HONG KONG  
SPECIAL ADMINISTRATIVE REGION  
DRAINAGE SERVICES DEPARTMENT

BLACK & VEATCH HONG KONG LIMITED  
博威工程顧問有限公司

DC/2020/02

Construction of San Shek Wan Sewage Treatment Works,  
Associated Submarine Outfall and Pui O Sewerage Works  
Silt Curtain Deployment Plan

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Appendix C1 – Specification of Geotextile for Silt Curtain

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# Material Submission

## G and E Silt Curtain



### **G AND E COMPANY LIMITED**

14th Floor, Kiu Yin Commercial Building

361-363 Lockhart Road, Wanchai, HK

Tel: 2570 0103 Fax: 2570 0089 website: [www.g-and-e.com](http://www.g-and-e.com)

November 2021



## Table of Contents

### 1) **Manufacturing Company Profile**

---

- An Introduction to G and E Company Limited

### 2) **Product Profile**

---

- Typical Silt Curtain Drawing

### 3) **Product Specification**

---

- Geotextile Specification
- Component Material and Coating

### 4) **Certification**

---

- ISO 9001:2015 Certificate

### 5) **Project Reference**

---

- Project List
- Photo References



## An Introduction of G and E Company Limited

### **G and E – A Perspective**

G and E, a geosynthetics specialist, distributes a full range of geosynthetics from renowned global manufacturers. The Company also manages a competent installation contracting service. To better serve our clients, design and engineering service have also been established in our portfolio. We aspire to provide our client comprehensive engineering solutions, from application and design, supply of materials and their installation, to conformance testing and project commissioning.

G and E takes a strong vision in geosynthetics application and development by working closely with contractors, consultants, academics, professional organizations, research institutions, testing laboratories and manufacturers, a mission to broaden the versatility of geosynthetics and its innovation.

We offer our clients extensive product knowledge and their installation expertise, with comprehensive service to application, design, contracting and commissioning. We aim for superior professional attentiveness with superb quality products and services at competitive price.



G and E is ISO 9001:2015 quality management certified and a VSRS registered contractor, with a remarkably successful working relationship with a long list of clients, the Government, project owners, contractors, designers, consultant engineers, overseas distributors and trading partners. The clientele extends to Macau, Southeast Asia and Southern China.

Talk to us today and see how our proposal can be appropriate, cost-effective and time saving solutions. We are into our 37<sup>th</sup> year in the industry, we have a library of experience to share and to support your project.

ISO9001:2015



IGAI



International Geosynthetics Society



Product Endorsement



Registered Subcontractor





G and E runs a distribution network and sourcing agent of geosynthetics, as well as a provider of professional design and installation services.



Kai Tak Development - Reconstruction and Upgrading of Kai Tak Nullah

The company handles a comprehensive range of geosynthetic materials:

- GEOTEXTILE:** Woven, non-woven, thermal bonded, needle punched, spun bond, special weave & composite
- GEOMEMBRANE:** HDPE, LLDPE and PVC membrane, keyed preformed, conductive & concrete protection liner, gas barrier, waterproofing liner, leakage collection & effluent containment
- GEODRAIN:** Geonet, geocomposite, band drain, sheet drain, relief drain
- GEOGRID:** Uni-axial, bi-axial & tri-axial geogrid and composite geogrid
- EROSION CONTROL:** Erosion mat, concrete mat, coir mat, geocell, gabion, wire & cable mesh, flexible rockfall barrier
- MARINE:** Silt curtain, turbidity control, block mat, geotextile tube, oil & trash boom, geobag, geotextile container, concrete mattress
- CLAY LINERS:** Geosynthetic bentonite liner GCL and composite
- TUNNEL:** Waterproofing membrane, invert drainage void former, GFRP, strip drain, geodrain
- LANDSCAPE:** Geotextile filter, root barrier, drainage mat, roof drain, tree anchor, rigid drainage cell
- SPECIAL SERVICE:** Geomembrane leak location survey, HDPE pipe, geosynthetics fabrication, repair & testing, crib wall, reinforced fill slope and wall, ground stabilization, land decontamination



## Silt Curtain Leaflet

# G and E - Silt Curtain



G and E has established silt curtain fabrication facility in Korea, making full use of professional factory set up, trained and skill workers, availability of quality geotextile and components, efficient operation and fast delivery from Busan to Hong Kong. G and E Silt Curtain (GESC series) has standard unit and customized model.

## We can supply silt curtain systems with:

- Customize design & drawing based on requirements
- Engineer to site condition constraint
- Fabricate to specific depth and length
- Supplement with accessories and installation components



*Typical proto-type*



*Handling of the silt curtain*



*Fabrication of silt curtain*



*Factory in Ansung, Korea*

The silt curtain will be delivered in pre-assembled package, including the float, geotextile curtain, ballast chain, other accessories, readied for immediate deployment , anchor system is optional.

## Silt Curtain Types

G and E Silt Curtain system comes in various types to suit all environments. There are:

- **Hanging type** - typical floating system to enclosed work area
- **Standing type** - suspended in mid water to allow marine traffic
- **Barge type** – for attachment to vessel or marine structure
- **Cover head type** - for coastal calm area
- **Frame type** - for enclosure of grab bucket
- **Double chain type** – a waving skirt to accommodate tidal change



*Silt curtain at Lung Mei Beach,  
May 2018*



*Tung Chung New Town Extension -  
Reclamation and Advance Works,  
December 2018 (NL/2017/03)*



*TKO - Lam Tin Tunnel - Main  
Tunnel and Associated Works, April  
2019 (NE/2015/01)*



*Central Kowloon Route - Kai Tak  
West, January 2019 (HY/2014/07)*





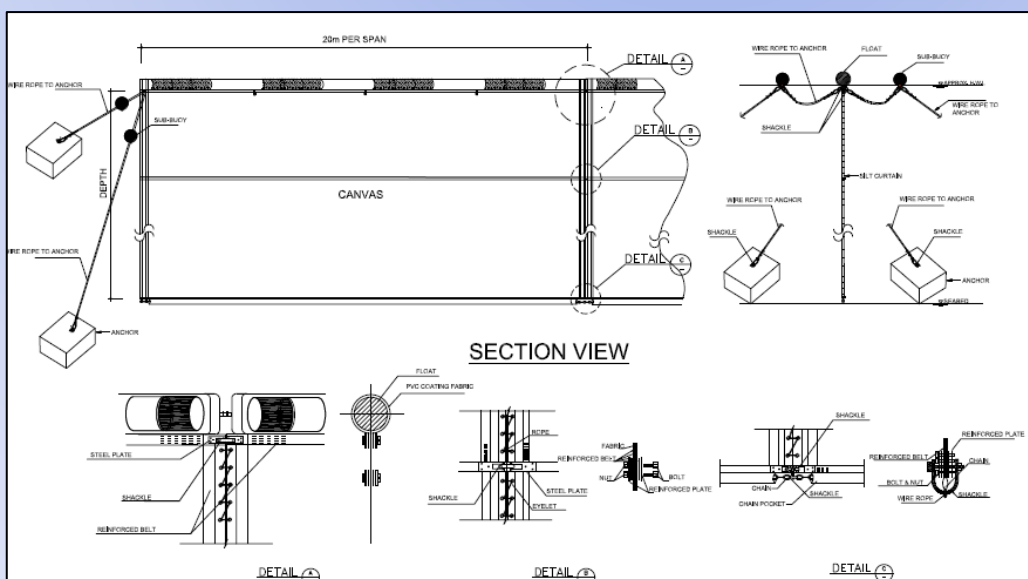
There are various sizes of float (buoyancy necessity), different grades of geotextile (strength requirement), a variety of steel plates (connection integrity), reinforcement belt (stiffening the curtain body) and several bottom chain (adequate ballast weight) to configure the most appropriate system.

## Silt Curtain Accessory

Optional accessories include sub-float to counter balance wave action, market buoy to identify anchor position, market light to signal alignment, fluke & ton bag anchor to replace anchor block as well as PP rope, shackle and anchor wire.

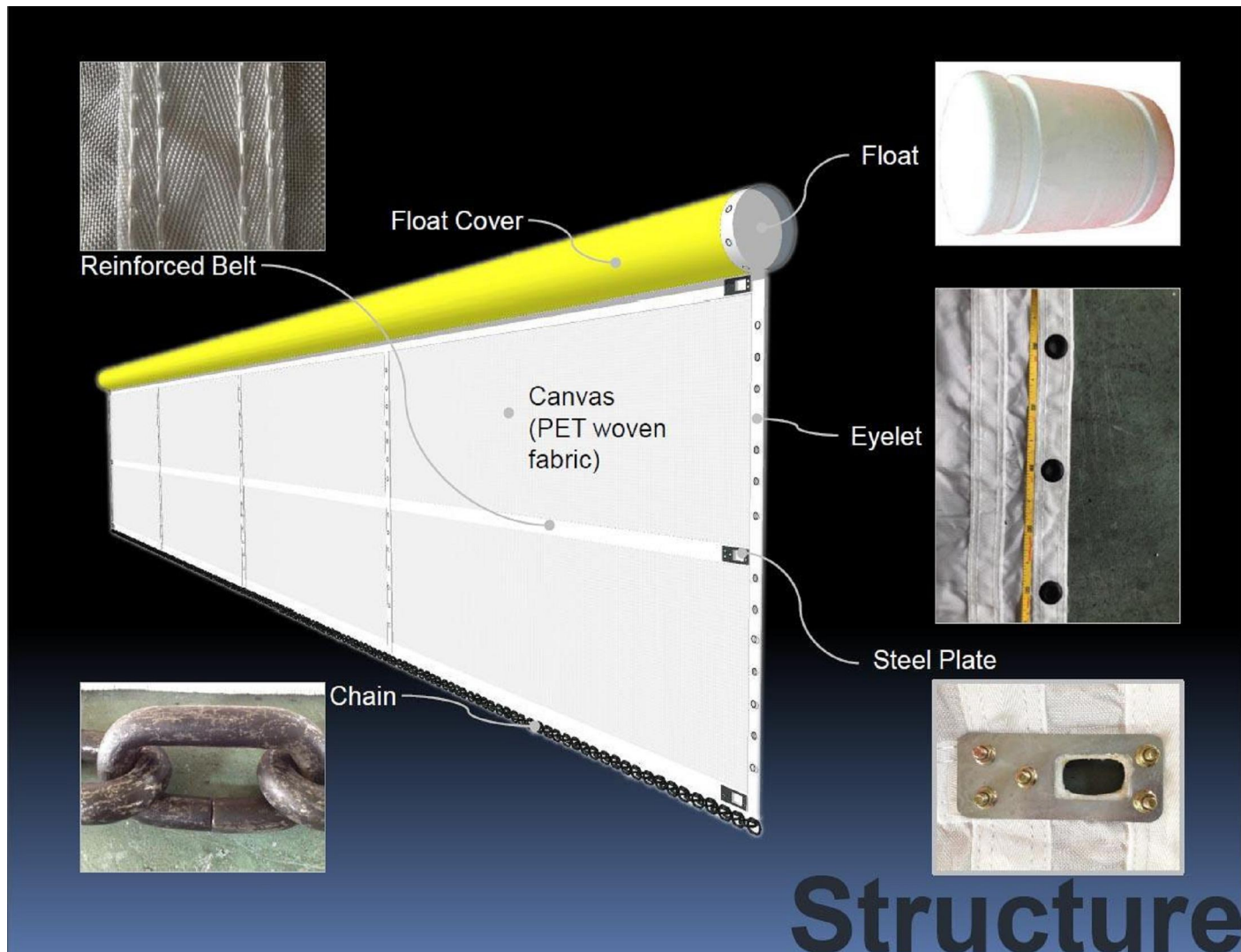


## Typical Design Drawing of Silt Curtain





## Silt Curtain Components





## Geotextile Specification



## **G AND E COMPANY LIMITED**

14/F Kiu Yin Commercial Building  
361 - 363 Lockhart Road,  
Wanchai, Hong Kong  
Tel: 852-2570 0103 Fax: 852-2570 0089  
website: www.g-and-e.com

### **GESC Silt Curtain Specification**

| Silt curtain system | Material                                     | GESC-15               | GESC-20 | GESC-30 |
|---------------------|----------------------------------------------|-----------------------|---------|---------|
| Curtain Geotextile  | Woven Polyester PET                          | 15T                   | 20T     | 30T     |
| Float element       | High density Polystyrene                     | 300 - 600 mm diameter |         |         |
| Steel Plate         | 50-80 $\mu$ m Galvanized mild steel          | Plate or Ring         |         |         |
| Ballast Chain       | 0.2% carbon mild steel<br>coal tar coating   | 2 - 5 kg/m            |         |         |
| Eyelet              | 0.2% carbon mild steel<br>oil based painting | 25 mm                 |         |         |
| Shackle             | 50-80 $\mu$ m Galvanized mild steel          | 14, 19 & 25 mm        |         |         |
| PP rope             | Polypylene                                   | 16 & 18 mm            |         |         |

| Geotextile       | Unit             | Test Method | 150kN   | 200kN   | 300kN   |
|------------------|------------------|-------------|---------|---------|---------|
| Tensile Strength | kN/m             | ISO 10319   | 150/150 | 200/200 | 300/300 |
| Elongation       | %                | ISO 10319   | 10-30   |         |         |
| Permeability     | cm/sec           | ISO 11058   | > 0.001 |         |         |
| Weight           | g/m <sup>2</sup> | ISO 9864    | 400     | 600     | 1000    |



## Silt Curtain Component Material and Coating



## **Silt Curtain**

### **Component Material and Coating**

| Item                   | Material                   | Coating                       |
|------------------------|----------------------------|-------------------------------|
| Eyelet                 | 0.2% Low Carbon Mild Steel | Painting (oil-based paint)    |
| Steel Plate            |                            | Galvanized (50 - 80µm)        |
| Reinforced Steel Plate |                            | Hot Dip Galvanize (over 80µm) |
| Bolt & Nut             |                            | Galvanized (50 - 80µm)        |
| Ballast Chain          |                            | Coal Tar Painting             |
| Shackle                |                            | Galvanized (50 – 80µm)        |



ISO 9001:2015 Certificate

# REGISTRATION CERTIFICATE

this is to certify that the management system of

**G and E Company Limited.**

have been assessed by AJA EUROPE and registered against the requirements of

**ISO 9001:2015**

**s c o p e   o f   r e g i s t r a t i o n**

**General Construction installation work Service and sales of Construction material such as Geosynthetics**

14/F Kiu Yin Commerical Building 361-363 Lockhart Road, Wan Chai, Hong Kong

Sites Registered

28

EAC

22nd January 2014

Date Original Registration

27th January 2024

Next Re-Audit Due Date

8th May 2021

Date Of Re-registration

N/A

Revision Date

AJAEU/21/16729

Certificate Number

27th March 2024

Expiry Date

N/A

Previous Expiry Date

**Alfonso Pagliuca, President & Founder, AJA Europe Ltd**



0273





## Job Reference List



## G and E Silt Curtain

| Date   | Project                                                                                      | Client                               | Consultant                                       | Model                | Size (W x Lm) | No. of Span |
|--------|----------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------|----------------------|---------------|-------------|
| Mar-15 | P552<br>Deep Cement Mixing Trial Works                                                       | Penta Ocean Construction Co Ltd      | Atkins China Ltd &<br>Mott MacDonald             | DSP30                | 8 x 20        | 2           |
|        |                                                                                              |                                      |                                                  | DSP30                | 8 x 25        | 6           |
| Dec-15 | HK/2012/08<br>Wan Chai Development Phase II -<br>Central Wan Chai Bypass at Wan Chai<br>West | China State - Leader JV              | AECOM Asia Co.<br>Ltd                            | DSP30                | 10 x 20       | 6           |
|        |                                                                                              |                                      |                                                  | DSP30                | 5 x 10        | 6           |
|        |                                                                                              |                                      |                                                  | DSP15                | 10 x 20       | 5           |
|        |                                                                                              |                                      |                                                  | DSP15                | 9 x 20        | 5           |
|        |                                                                                              |                                      |                                                  | DSP15                | 8 x 20        | 5           |
| Dec-16 | C3203<br>3rd Runway System Project<br>DCM Ground Improvement Works<br>(Package 3)            | Sambo E & C Co Ltd                   | Atkins China Ltd &<br>Mott MacDonald             | DSP 30<br>Barge Type | 4 x 10        | 46          |
|        |                                                                                              |                                      |                                                  |                      | 2 x 10        | 2           |
|        |                                                                                              |                                      |                                                  |                      | 4 x 9         | 246         |
|        |                                                                                              |                                      |                                                  |                      | 1.6 x 9       | 4           |
|        |                                                                                              |                                      |                                                  |                      | 2.8 x 9       | 2           |
|        |                                                                                              |                                      |                                                  |                      | 1.8 x 9       | 2           |
| Dec-16 | C3204<br>3rd Runway System Project<br>DCM Ground Improvement Works<br>(Package 4)            | CRBC-Sambo JV                        | Atkins China Ltd &<br>Mott MacDonald             | DSP30                | 2 x 9         | 2           |
|        |                                                                                              |                                      |                                                  |                      | 6 x 5.3       | 2           |
|        |                                                                                              |                                      |                                                  |                      | 6 x 11.3      | 2           |
|        |                                                                                              |                                      |                                                  |                      | 6 x 12.3      | 20          |
|        |                                                                                              |                                      |                                                  |                      | 6 x 12.8      | 4           |
|        |                                                                                              |                                      |                                                  |                      | 6 x 13.8      | 4           |
| Jan-17 | C3201<br>3rd Runway System Project<br>DCM Ground Improvement Works<br>(Package 1)            | Penta Ocean-China State- Dong Ah JV  | Atkins China Ltd &<br>Mott MacDonald             | DSP 30               | 6 x 6         | 100         |
|        |                                                                                              |                                      |                                                  |                      | 3 x 20        | 10          |
|        |                                                                                              |                                      |                                                  |                      | 6 x 8         | 154         |
|        |                                                                                              |                                      |                                                  |                      |               |             |
|        |                                                                                              |                                      |                                                  |                      |               |             |
| Feb-17 | P560<br>Aviation Fuel Pipeline Diversion Works                                               | Kat Yue Construction Engineering Ltd | Mott MacDonald<br>HK Ltd                         | DSP15                | 1.5 x 20      | 8           |
| Jul-17 | Refuse Boom at Tai O by World Wide Fund                                                      | G and E Co. Ltd                      | World Wide Fund                                  | DSP15                | 0.5 x 20      | 3           |
| Aug-17 | Lyric Theater Complex and Extended Basement Project for the WKCD Authority                   | Gammon Construction Ltd              | AECOM Asia Co.<br>Ltd / Mott<br>Macdonald HK Ltd | DSP15                | 8 x 20        | 6           |
| Mar-18 | HK/2009/02<br>Wan Chai Development Phase II<br>Central - Wanchai Bypass at Wanchai East      | Chun Wo - CRGL JV                    | AECOM Asia Co<br>Ltd                             | DSP15                | 7 x 20        | 13          |

## G and E Silt Curtain

| Date   | Project                                                                                           | Client                                                                                       | Consultant                                    | Model            | Size (W x Lm)                                                                                          | No. of Span                                         |
|--------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-----------------------------------------------|------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| Oct-18 | HY/2014/07<br>Central Kowloon Route - Kai Tak West                                                | Gammon Construction Ltd                                                                      | Arup - Mott MacDonald JV                      | GES-15           | 20 x 2<br>10 x 3<br>20 x 3<br>20 x 4<br>20 x 4.5<br>20 x 5<br>20 x 6<br>20 x 7<br>20 x 7.5<br>15 x 7.5 | 2<br>1<br>1<br>10<br>2<br>12<br>18<br>13<br>11<br>2 |
| Nov-18 | Proposed Residential Development at Site N TKOTL 70RP, Lohas Park Package 6                       | Hip Hing Construction Co Ltd                                                                 |                                               | GES-15           | 20 x 1.5<br>10 x 1.5                                                                                   | 1<br>2                                              |
| Nov-18 | YL/2017/03<br>Development of Lok Ma Chau Loop; Land Decontamination and Advance Engineering Works | Sang Hing - Kuly Joint Venture                                                               | Black & Veatch Hong Kong Ltd                  | GES-15           | 20 x 2                                                                                                 | 14                                                  |
| Jan-19 | C340B<br>輕軌媽閣站主體建造工程 - 臨時道路工程                                                                     | Hai Fai Construction                                                                         | AECOM Asia Co Ltd                             | DSP 15           | 20 x 3                                                                                                 | 12                                                  |
| Apr-19 | NE/2016/01<br>Site formation and infrastructure work for development of Anderson Road quarry site | Chun Wo - STE Vastream JV                                                                    | AECOM Asia Co Ltd                             | GES-15           | 10 x 4                                                                                                 | 4                                                   |
| Jun-19 | HY/2014/16<br>Hiram's Highway Improvement Stage 1 - Between Clearwater Bay Road and Marina Cove   | China State Construction Engineering (Hong Kong) Limited                                     | Meinhart Infrastructure and Environmental Ltd | GES-15           | 20 x 4                                                                                                 | 5                                                   |
| Aug-19 | 金銀島名勝世界酒店                                                                                         | 駿晟工程有限公司                                                                                     |                                               | GES-15           | 20 x 3                                                                                                 | 40                                                  |
| Sep-19 | HEC 18/8004<br>Lamma Power Station Extension - Unit 12, New LPS - LMX Cable Bridge                | Sunley Engineering & Construction Co Ltd                                                     | HK Electric Co Ltd                            | GES-15           | 4 x 1<br>10 x 2                                                                                        | 2<br>4                                              |
| Dec-19 | HY/2014/16<br>Hiram's Highway Improvement Stage 1 - Between Clearwater Bay Road and Marina Cove   | Modern Concrete Drill Cut Co. Ltd                                                            | Meinhart Infrastructure and Environmental Ltd | GES-15           | 15 x 2.5                                                                                               | 2                                                   |
| Dec-19 | NKIL 6575<br>Proposed Residential Development, Kai Tak                                            | China Overseas Building Construction Ltd                                                     | SYW & Associates Ltd                          | GES-15           | 20 x 4                                                                                                 | 3                                                   |
| Mar-20 | EP/SP/9/91<br>Development and Management of West New Territories (WENT) Landfill                  | SUEZ NWS R & R (Hong Kong) Ltd                                                               | Black & Veatch Hong Kong Ltd                  | GES-15<br>GES-15 | 20 x 4<br>15 x 2.5<br>15 x 2<br>20 x 2                                                                 | 1<br>1<br>1<br>1                                    |
| Mar-20 | 13/WSD/17<br>First Stage of Desalination Plant at TKO                                             | China State Construction Engineering (Hong Kong) Limited<br>Friendly Benefit Engineering Ltd | Black & Veatch Hong Kong Ltd                  | GES-15           | 10 x 6<br>20 x 15<br>20 x 13<br>10 x 10                                                                | 8<br>7<br>4<br>8                                    |
| Apr-20 | EP/SP/66/12<br>Integrated Waste Management Facilities Phase 1                                     | Zhen Hua Engineering Co Ltd                                                                  | AECOM Asia Co Ltd                             | GES-10           | 20 x 2<br>20 x 5                                                                                       | 40<br>15                                            |

## G and E Silt Curtain

| Date   | Project                                                                                    | Client                                                           | Consultant                                               | Model   | Size<br>(W x Lm)                     | No. of<br>Span      |
|--------|--------------------------------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------|---------|--------------------------------------|---------------------|
| Apr-20 | HEC 18_8005<br>Lamma Power Station Navigation<br>Channel Improvement                       | UDL Holding Ltd                                                  | HK Electric Co Ltd                                       | GESC-15 | 18 x 10<br>18 x 7                    | 8<br>8              |
| Apr-20 | DC/2017/01<br>Construction of dry weather flow<br>interceptor at Cherry Street Box culvert | B.C. Contractors Ltd                                             | Black & Veatch<br>Hong Kong Ltd                          | GESC-15 | 20 x 2                               | 5                   |
| Jun-20 | Development of Industrial Estate 2.0<br>Project C - Advanced Manufacturing<br>Center       | Friendly Benefit Engineering Ltd                                 | Andrew Lee King<br>Fun & Associates<br>Architects        | GESC-15 | 20 x 7<br>20 x 7                     | 5<br>8              |
| Aug-20 | CV/2016/09<br>CEDD Maintenance contract for piers<br>(2017-2022)                           | Sun Fook Kong (Civil) Limited                                    | Civil Engineering<br>and Development<br>Department, Port | GESC-15 | 15 x 3                               | 2                   |
| Oct-20 | C18W10<br>North Commercial District Footbridge                                             | Friendly Benefit Engineering Ltd                                 | Mott MacDonald                                           | DSP-15  | 20 x 8.5                             | 5                   |
| Nov-20 | C19W10<br>Intermodal Transfer Terminal - Bonded<br>Vehicular Bridge                        | Will Pak Engineering Ltd                                         | Mott MacDonald                                           | GESC-15 | 14 x 11<br>14 x 10                   | 4<br>16             |
| Jan-21 | C18W02<br>Intermodal Transfer Terminal Building                                            | Build King Construction Ltd                                      | AECOM Asia Co<br>Ltd                                     | GESC-15 | 20 x 7                               | 3                   |
| Jan-21 | 19-83014<br>Lamma Power Station Extension                                                  | Paul Y. Construction Co. Ltd                                     | Arcadis                                                  | GESC-15 | 15 x 3.5                             | 3                   |
| Feb-21 | NKIL 6574<br>Kai Tak Area 4B, Site 3                                                       | China Overseas Building Construction<br>Ltd                      |                                                          | GESC-15 | 20 x 4                               | 2                   |
| Aug-21 | Offshore LNG Terminal                                                                      | Yun Lee Marine Holdings Ltd.<br>Tapbo Civil Engineering Co. Ltd. | Arup                                                     | GESC-15 | 20 x 4<br>20 x 4<br>20 x 4<br>20 x 4 | 5<br>30<br>60<br>15 |
| Aug-21 | C3802<br>APM / BHS Tunnel                                                                  | Gammon Engineering &<br>Construction Co. Ltd.                    | Mott MacDonald                                           | GESC-15 | 20 x 4.7                             | 3                   |



## Photo References





## 防止水質污染 - 淤泥屏障 Prevention of Water Pollution – Silt Curtain

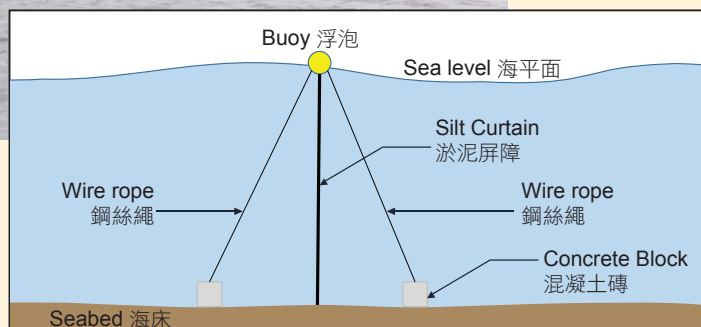
淤泥屏障是填海工程期間避免水質污染的緩解措施之一。在整個施工期間，填海區外圍以淤泥屏障隔離，以減低施工時對水質的影響。於每天施工前，工程人員須檢查淤泥屏障的狀況，包括其完整性及位置，確保淤泥屏障正確安裝及有效運作後，方可施工。另外潛水員會定期對淤泥屏障進行水底檢查。如發現任何破損，會即時維修或更換，以防止水質污染。

Provision of silt curtain is one of the mitigation measures to prevent the water pollution in reclamation works. During the course of construction, silt curtains are installed at the periphery of the reclamation area in order to minimise the impact on water quality. Our staff conduct daily check of the condition of the installed silt curtains prior to works commencement, including its integrity and location, so as to ensure the silt curtains are installed properly and function effectively. Furthermore, our diving team inspects the underwater condition of silt curtains regularly. In case of any defects found, the project team will repair or replace silt curtains immediately in order to prevent water pollution.



淤泥屏障  
Silt curtains

淤泥屏障橫切面圖  
Cross section of Silt curtain



## 資訊與聯絡 Information and Enquiries

如欲了解更多資料，請瀏覽東涌新市鎮擴展工程項目網頁：

For further information, please visit the website of Tung Chung New Town Extension project:

<http://www.tung-chung.hk>



如對東涌新市鎮擴展 - 填海及前期工程有任何意見及建議，歡迎提出。

Your views and comments on Tung Chung New Town Extension - Reclamation and Advance Works are welcome.

24 小時熱線 24-hour hotline **5976 1853**  
電郵 email **enquiry@nl201703-bsjv.com**



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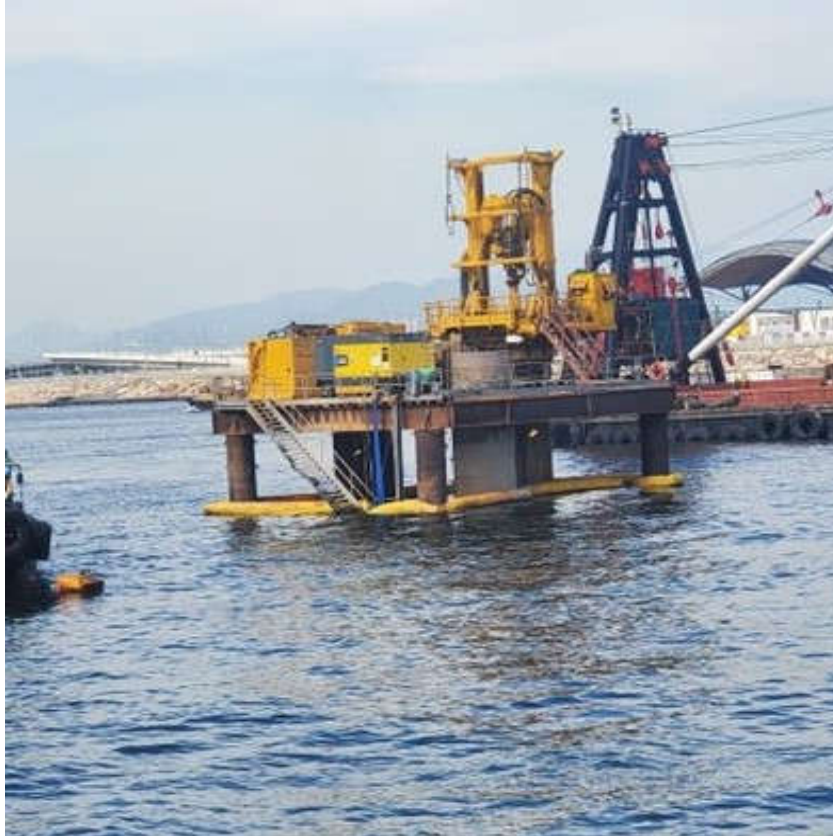


|                        |                                                                 |
|------------------------|-----------------------------------------------------------------|
| <b>Date</b>            | October 2018                                                    |
| <b>Project</b>         | Contract No. HY/2014/07<br>Central Kowloon Route - Kai Tak West |
| <b>Client</b>          | Highways Department                                             |
| <b>Consultant</b>      | Arup - Mott MacDonald JV                                        |
| <b>Main Contractor</b> | Gammon Construction Ltd                                         |
| <b>Works</b>           | Turbidity Control around Piles                                  |
| <b>Material</b>        | Silt Curtain                                                    |
| <b>Quantity</b>        | 37 spans                                                        |



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|                        |                                                                                  |
|------------------------|----------------------------------------------------------------------------------|
| <b>Date</b>            | May 2021                                                                         |
| <b>Project</b>         | Contract No. C19W10<br>Intermodal Transfer Terminal - Bonded<br>Vehicular Bridge |
| <b>Client</b>          | Hong Kong International Airport                                                  |
| <b>Consultant</b>      | Mott MacDonald                                                                   |
| <b>Main Contractor</b> | Will Pak Engineering Ltd                                                         |
| <b>Works</b>           | Turbidity Control                                                                |
| <b>Material</b>        | Silt Curtain                                                                     |
| <b>Quantity</b>        | 20 spans                                                                         |





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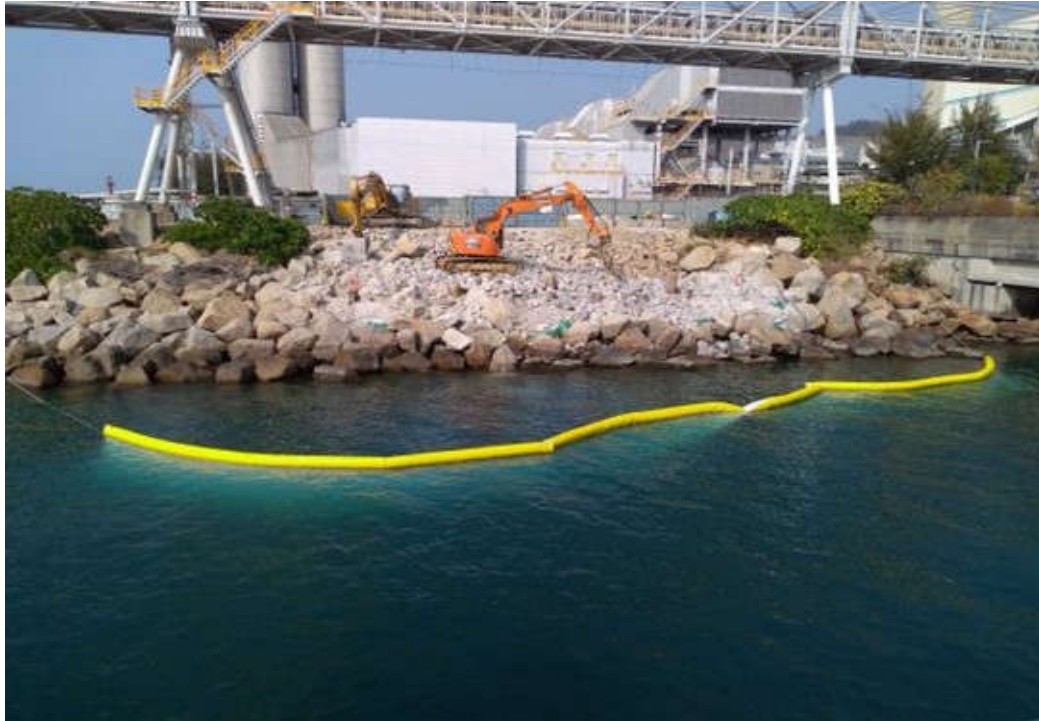


|                        |                                                                                                               |
|------------------------|---------------------------------------------------------------------------------------------------------------|
| <b>Date</b>            | December 2020                                                                                                 |
| <b>Project</b>         | Contract No. ND/2019/04<br><br>Fanling North New Development Area,<br>Phase 1: Fanling Bypass Eastern Section |
| <b>Client</b>          | Civil Engineering & Development<br>Department                                                                 |
| <b>Consultant</b>      | AECOM Asia Co. Ltd                                                                                            |
| <b>Main Contractor</b> | DCK JV                                                                                                        |
| <b>Works</b>           | Turbidity Control                                                                                             |
| <b>Material</b>        | Silt Curtain                                                                                                  |
| <b>Quantity</b>        | 14 spans                                                                                                      |



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|                        |                                                            |
|------------------------|------------------------------------------------------------|
| <b>Date</b>            | January 2021                                               |
| <b>Project</b>         | Contract No. HKE 19_38014<br>Lamma Power Station Extension |
| <b>Client</b>          | HK Electric                                                |
| <b>Consultant</b>      | Arcadis                                                    |
| <b>Main Contractor</b> | Paul Y. Construction Co. Ltd                               |
| <b>Works</b>           | Turbidity Control                                          |
| <b>Material</b>        | Silt Curtain                                               |
| <b>Quantity</b>        | 3 spans                                                    |





|                        |                                                                                                                      |
|------------------------|----------------------------------------------------------------------------------------------------------------------|
| <b>Date</b>            | December 2018                                                                                                        |
| <b>Project</b>         | Contract No. YL/2017/03<br>Development of Lok Ma Chau Loop; Land<br>Decontamination and Advance<br>Engineering Works |
| <b>Client</b>          | Civil Engineering and Development<br>Department                                                                      |
| <b>Consultant</b>      | Black & Veatch Hong Kong Ltd                                                                                         |
| <b>Main Contractor</b> | Sang Hing - Kuly Joint Venture                                                                                       |
| <b>Works</b>           | Turbidity Control                                                                                                    |
| <b>Material</b>        | Silt Curtain                                                                                                         |
| <b>Quantity</b>        | 14 spans                                                                                                             |



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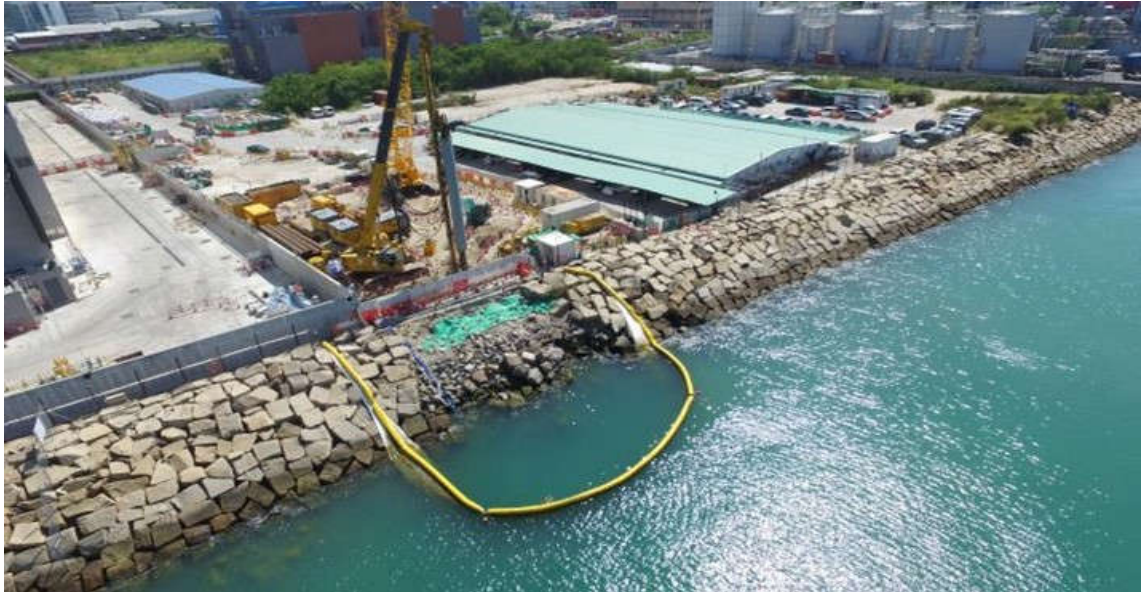


|                        |                                                                       |
|------------------------|-----------------------------------------------------------------------|
| <b>Date</b>            | June 2020                                                             |
| <b>Project</b>         | Contract No. 13/WSD/17<br>First Stage of Desalination Plant at<br>TKO |
| <b>Client</b>          | Water Supplies Department                                             |
| <b>Consultant</b>      | Black & Veatch Hong Kong Ltd                                          |
| <b>Main Contractor</b> | China State Construction Engineering<br>(Hong Kong) Limited           |
| <b>Works</b>           | Turbidity Control                                                     |
| <b>Material</b>        | Silt Curtain                                                          |
| <b>Quantity</b>        | 37 spans                                                              |



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|                        |                                                                                   |
|------------------------|-----------------------------------------------------------------------------------|
| <b>Date</b>            | October 2020                                                                      |
| <b>Project</b>         | Development of Industrial Estate 2.0 Project<br>C - Advanced Manufacturing Center |
| <b>Client</b>          | Hong Kong Science and Technology Parks<br>Corporation                             |
| <b>Consultant</b>      | Wong & Ouyang (Building Services) Ltd                                             |
| <b>Main Contractor</b> | Gammon Construction Ltd<br>Friendly Benefit Engineering Ltd                       |
| <b>Works</b>           | Turbidity Control                                                                 |
| <b>Material</b>        | Silt Curtain                                                                      |
| <b>Quantity</b>        | 9 spans                                                                           |





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|                        |                                                                  |
|------------------------|------------------------------------------------------------------|
| <b>Date</b>            | August 2020                                                      |
| <b>Project</b>         | EP/SP/66/12<br>Integrated Waste Management Facilities<br>Phase 1 |
| <b>Client</b>          | Environmental Protection Department                              |
| <b>Consultant</b>      | AECOM Asia Co. Ltd                                               |
| <b>Main Contractor</b> | Zhen Hua Engineering Co. Ltd                                     |
| <b>Works</b>           | Marine Park Protection                                           |
| <b>Material</b>        | Silt Curtain                                                     |
| <b>Quantity</b>        | 25 spans                                                         |





|                        |                                                                                                  |
|------------------------|--------------------------------------------------------------------------------------------------|
| <b>Date</b>            | March 2020                                                                                       |
| <b>Project</b>         | Contract No. EP/SP/9/91<br>Development and Management of West<br>New Territories (WENT) Landfill |
| <b>Client</b>          | Environmental Protection Department                                                              |
| <b>Consultant</b>      | Black & Veatch Hong Kong Ltd                                                                     |
| <b>Main Contractor</b> | SUEZ NWS R&R (Hong Kong) Ltd                                                                     |
| <b>Works</b>           | Site Drainage Outfall Silt Control                                                               |
| <b>Material</b>        | Silt Curtain                                                                                     |
| <b>Quantity</b>        | 1 span                                                                                           |



|                        |                                                       |
|------------------------|-------------------------------------------------------|
| <b>Date</b>            | June 2018                                             |
| <b>Project</b>         | Lago Nam Van, Macau                                   |
| <b>Client</b>          | Direcção dos Serviços De Protecção Ambiental of Macau |
| <b>Consultant</b>      | WSP                                                   |
| <b>Main Contractor</b> | Sunley Engineering & Construction (Macau) Co Ltd      |
| <b>Works</b>           | Environmental Mitigation Measure                      |
| <b>Material</b>        | Silt Curtain                                          |
| <b>Quantity</b>        | 20 spans                                              |



|                        |                                                   |
|------------------------|---------------------------------------------------|
| <b>Date</b>            | January 2019                                      |
| <b>Project</b>         | C340B<br>Main works for Barra Station, Macau      |
| <b>Client</b>          | MTR Railway Operations (Macau)<br>Company Limited |
| <b>Consultant</b>      | AECOM Asia Ltd                                    |
| <b>Main Contractor</b> | China State Construction Engineering<br>Ltd       |
| <b>Works</b>           | Tubidity Control                                  |
| <b>Material</b>        | Silt Curtain                                      |
| <b>Quantity</b>        | 12 spans                                          |



|                        |                                                                                                                  |
|------------------------|------------------------------------------------------------------------------------------------------------------|
| <b>Date</b>            | May 2019                                                                                                         |
| <b>Project</b>         | Contract No. NE/2016/01<br>Site Formation and Infrastructure Works<br>for Development of Anderson Road<br>Quarry |
| <b>Client</b>          | Civil Engineering and Development<br>Department                                                                  |
| <b>Consultant</b>      | AECOM Asia Co Ltd                                                                                                |
| <b>Main Contractor</b> | Chun Wo Development Holdings Ltd<br>Tinkle Construction Engineering Co Ltd                                       |
| <b>Works</b>           | Site Drainage Outfall Silt Control                                                                               |
| <b>Material</b>        | Silt Curtain                                                                                                     |
| <b>Quantity</b>        | 4 spans                                                                                                          |





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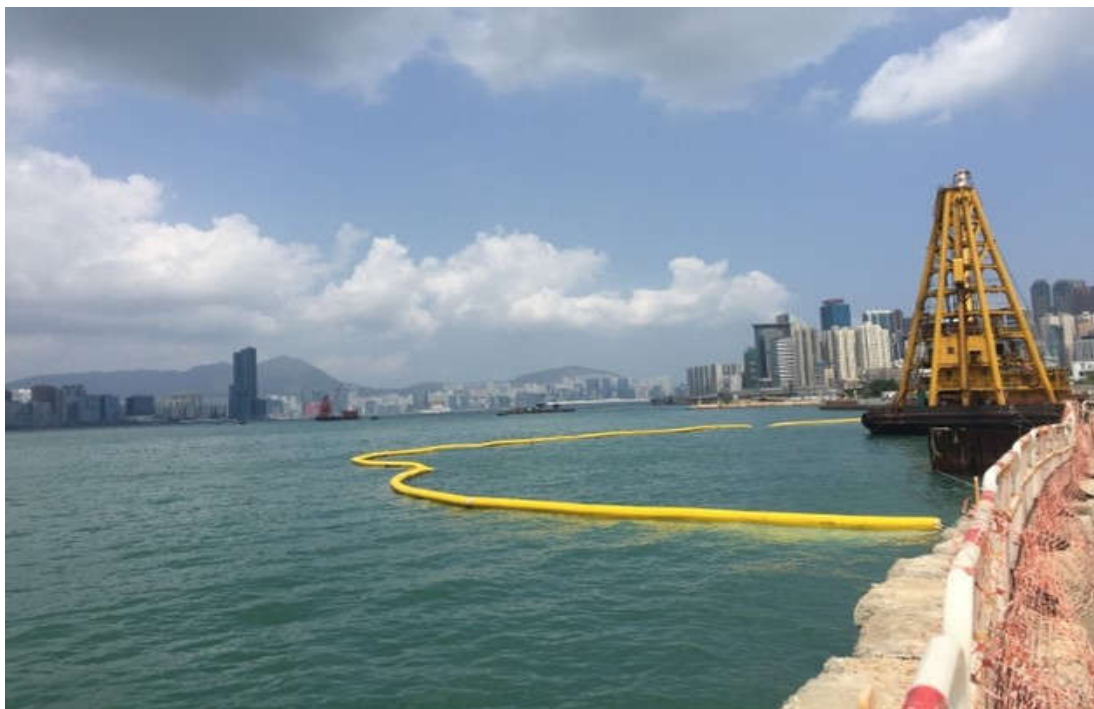
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|                        |                                                                 |
|------------------------|-----------------------------------------------------------------|
| <b>Date</b>            | October 2018                                                    |
| <b>Project</b>         | Contract No. HY/2014/07<br>Central Kowloon Route - Kai Tak West |
| <b>Client</b>          | Highways Department                                             |
| <b>Consultant</b>      | Arup - Mott MacDonald JV                                        |
| <b>Main Contractor</b> | Gammon Construction Ltd                                         |
| <b>Works</b>           | Turbidity Control                                               |
| <b>Material</b>        | Silt Curtain                                                    |
| <b>Quantity</b>        | 30 spans                                                        |



|                        |                                                    |
|------------------------|----------------------------------------------------|
| <b>Date</b>            | July 2017                                          |
| <b>Project</b>         | "ALL Hands on Deck", Reduce Ocean Gabbage Campaign |
| <b>Client</b>          | Worldwide Fund for Nature Hong Kong                |
| <b>Consultant</b>      | G and E Company Limited                            |
| <b>Main Contractor</b> | G and E Company Limited                            |
| <b>Works</b>           | Refuse Boom                                        |
| <b>Material</b>        | Silt Curtain                                       |
| <b>Quantity</b>        | 3 spans                                            |



|                        |                                                                                                     |
|------------------------|-----------------------------------------------------------------------------------------------------|
| <b>Date</b>            | March 2014                                                                                          |
| <b>Project</b>         | Contract No. HK/2009/02<br>Wan Chai Development Phase II<br>Central - Wan Chai Bypass Wan Chai East |
| <b>Client</b>          | Civil Engineering and Development<br>Department                                                     |
| <b>Consultant</b>      | AECOM (Asia) Ltd                                                                                    |
| <b>Main Contractor</b> | Chun Wo - CRGL Joint Venture                                                                        |
| <b>Works</b>           | Turbidity Control                                                                                   |
| <b>Material</b>        | Silt Curtain                                                                                        |
| <b>Quantity</b>        | 13 spans                                                                                            |



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|                        |                                                                     |
|------------------------|---------------------------------------------------------------------|
| <b>Date</b>            | April 2017                                                          |
| <b>Project</b>         | Contract No. HKHA20120023<br>Public Rental Housing, Shek Mun Estate |
| <b>Client</b>          | Housing Authority                                                   |
| <b>Consultant</b>      | Housing Authority                                                   |
| <b>Main Contractor</b> | Hin Sum Engineering Co. Ltd                                         |
| <b>Works</b>           | Turbidity Control                                                   |
| <b>Material</b>        | Silt Curtain                                                        |
| <b>Quantity</b>        | 2 spans                                                             |





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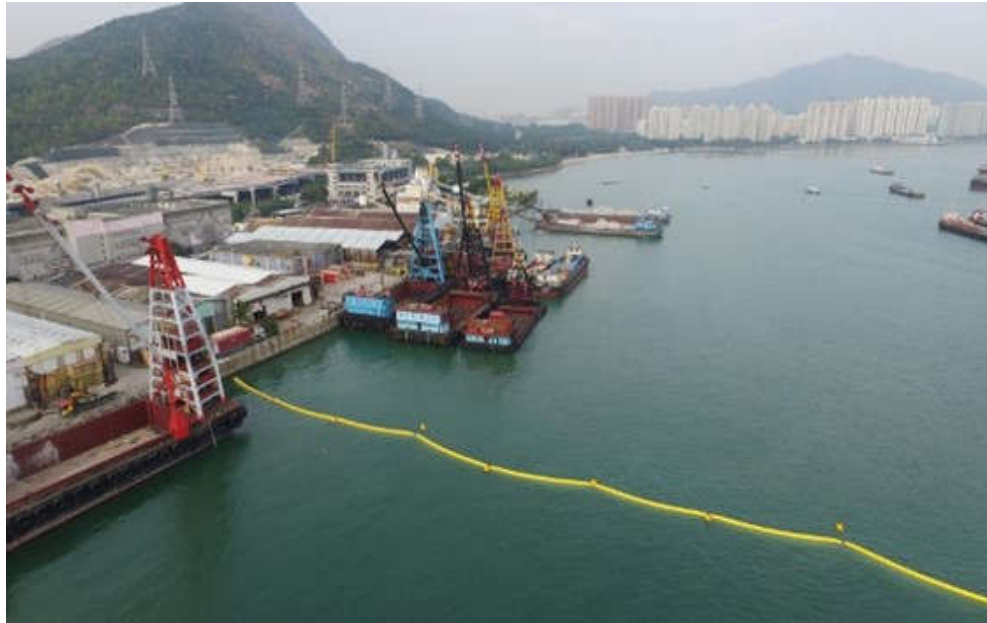


|                        |                                                                                       |
|------------------------|---------------------------------------------------------------------------------------|
| <b>Date</b>            | October 2016                                                                          |
| <b>Project</b>         | Contract C3201<br>Three Runway System Project<br>Deep Cement Mixing Works (Package 1) |
| <b>Client</b>          | Hong Kong Airport Authority                                                           |
| <b>Consultant</b>      | Atkins in association with Mott MacDonald                                             |
| <b>Main Contractor</b> | Penta Ocean-China State - Dong Ah JV                                                  |
| <b>Works</b>           | Turbidity Control                                                                     |
| <b>Material</b>        | Silt Curtain Barge Type                                                               |
| <b>Quantity</b>        | 154 spans                                                                             |



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|                        |                                                                                                          |
|------------------------|----------------------------------------------------------------------------------------------------------|
| <b>Date</b>            | June 2014                                                                                                |
| <b>Project</b>         | Contract No. HY/2012/08<br>Tuen Mun - Chek Lap Kok Link<br>Northern Connection Sub-sea Tunnel<br>Section |
| <b>Client</b>          | Highways Department                                                                                      |
| <b>Consultant</b>      | AECOM Asia Co. Ltd                                                                                       |
| <b>Main Contractor</b> | Dragages - Bouygues JV                                                                                   |
| <b>Works</b>           | Turbidity Control                                                                                        |
| <b>Material</b>        | Silt Curtain                                                                                             |
| <b>Quantity</b>        | 85 spans                                                                                                 |



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|                        |                                                    |
|------------------------|----------------------------------------------------|
| <b>Date</b>            | March 2016                                         |
| <b>Project</b>         | Asia Pacific Gateway (APG) - Tseung Kwan O Section |
| <b>Client</b>          | China Mobile International Limited                 |
| <b>Consultant</b>      | Environmental Resources Management                 |
| <b>Main Contractor</b> | Maritime Mechanic Ltd                              |
| <b>Works</b>           | Turbidity Control                                  |
| <b>Material</b>        | Silt Curtain                                       |
| <b>Quantity</b>        | 12 spans                                           |



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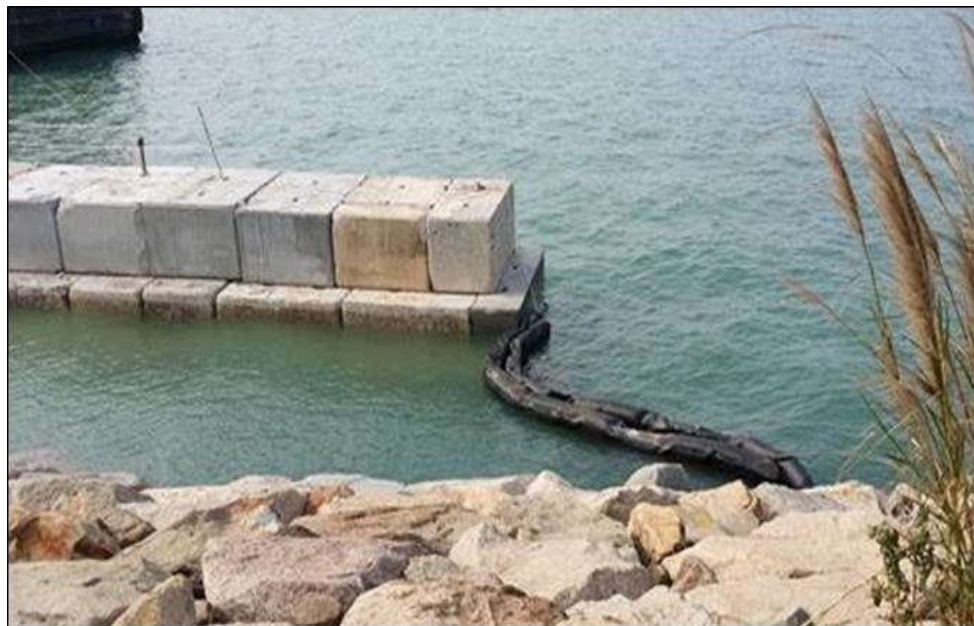
|                        |                                                                                   |
|------------------------|-----------------------------------------------------------------------------------|
| <b>Date</b>            | May 2014                                                                          |
| <b>Project</b>         | HY/2012/07<br>Tuen Mun - Chek Lap Kok Link-<br>Sothern Connection Viaduct Section |
| <b>Client</b>          | Highway Department                                                                |
| <b>Consultant</b>      | AECOM Asia Co. Ltd                                                                |
| <b>Main Contractor</b> | Gammon Construction Ltd                                                           |
| <b>Works</b>           | Turbidity Control                                                                 |
| <b>Material</b>        | Silt Curtain                                                                      |
| <b>Quantity</b>        | 44 spans                                                                          |





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|                        |                                                                                   |
|------------------------|-----------------------------------------------------------------------------------|
| <b>Date</b>            | February 2014                                                                     |
| <b>Project</b>         | HY/2012/07<br>Tuen Mun - Chek Lap Kok Link-<br>Sothern Connection Viaduct Section |
| <b>Client</b>          | Highway Department                                                                |
| <b>Consultant</b>      | AECOM Asia Co. Ltd                                                                |
| <b>Main Contractor</b> | Gammon Construction Ltd                                                           |
| <b>Works</b>           | Silt Curtain                                                                      |
| <b>Material</b>        | Woven Geotextile Bontec SG110/110                                                 |
| <b>Quantity</b>        | 10,500 sqm                                                                        |



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|                        |                                                                                             |
|------------------------|---------------------------------------------------------------------------------------------|
| <b>Date</b>            | April 2015                                                                                  |
| <b>Project</b>         | Contract No. 16/WSD/11<br>Replacement and Rehabilitation of Water<br>mains, Stage 4 Phase 2 |
| <b>Client</b>          | Water Supplies Department                                                                   |
| <b>Consultant</b>      | AECOM Asia Company Limited                                                                  |
| <b>Main Contractor</b> | Pipe Tech Ltd                                                                               |
| <b>Works</b>           | Turbidity Control                                                                           |
| <b>Material</b>        | Silt Curtain                                                                                |
| <b>Quantity</b>        | 6 spans                                                                                     |



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|                        |                                                     |
|------------------------|-----------------------------------------------------|
| <b>Date</b>            | March 2015                                          |
| <b>Project</b>         | Contract No. P552<br>Deep Cement Mixing Trial Works |
| <b>Client</b>          | Hong Kong Airport Authority                         |
| <b>Consultant</b>      | Atkins - Mott MacDonald                             |
| <b>Main Contractor</b> | Penta Ocean Construction Co Ltd                     |
| <b>Works</b>           | Turbidity Control                                   |
| <b>Material</b>        | Silt Curtain Barge Type                             |
| <b>Quantity</b>        | 8 Spans                                             |



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|                        |                                                                                                   |
|------------------------|---------------------------------------------------------------------------------------------------|
| <b>Date</b>            | September 2013                                                                                    |
| <b>Project</b>         | DC/2011/01<br>Drainage Maintenance and<br>Construction in Mainland South<br>Districts (2011-2015) |
| <b>Client</b>          | Drainage Service Department                                                                       |
| <b>Consultant</b>      | Drainage Service Department                                                                       |
| <b>Main Contractor</b> | Paul Y. Construction Co. Ltd                                                                      |
| <b>Works</b>           | Inflow Interceptor                                                                                |
| <b>Material</b>        | Silt Curtain                                                                                      |
| <b>Quantity</b>        | 16 spans                                                                                          |





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|                        |                                                                                                           |
|------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>Date</b>            | December 2015                                                                                             |
| <b>Project</b>         | Contract No. HK/2012/08<br>Wan Chai Development Phase II -<br>Central Wan Chai Bypass at Wan Chai<br>West |
| <b>Client</b>          | CEDD                                                                                                      |
| <b>Consultant</b>      | AECOM Asia Co. Ltd                                                                                        |
| <b>Main Contractor</b> | China State Construction Engineering<br>Co. Ltd                                                           |
| <b>Works</b>           | Turbidity Control                                                                                         |
| <b>Material</b>        | Silt Curtain                                                                                              |
| <b>Quantity</b>        | 27 spans                                                                                                  |



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Tel: 852-2570 0103 Fax: 852-2570 0089  
website: [www.g-and-e.com](http://www.g-and-e.com)



|                        |                                                                                                           |
|------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>Date</b>            | May 2013                                                                                                  |
| <b>Project</b>         | Contract No. HK/2012/08<br>Wan Chai Development Phase II -<br>Central Wan Chai Bypass at Wan Chai<br>West |
| <b>Client</b>          | CEDD                                                                                                      |
| <b>Consultant</b>      | AECOM Asia Co. Ltd                                                                                        |
| <b>Main Contractor</b> | China State Construction Engineering<br>Co. Ltd                                                           |
| <b>Works</b>           | Silt Curtain                                                                                              |
| <b>Material</b>        | Woven Geotextile Bontec SG110/110                                                                         |
| <b>Quantity</b>        | 42,000 sqm                                                                                                |

DC/2020/02

Construction of San Shek Wan Sewage Treatment Works,  
Associated Submarine Outfall and Pui O Sewerage Works  
Silt Curtain Deployment Plan

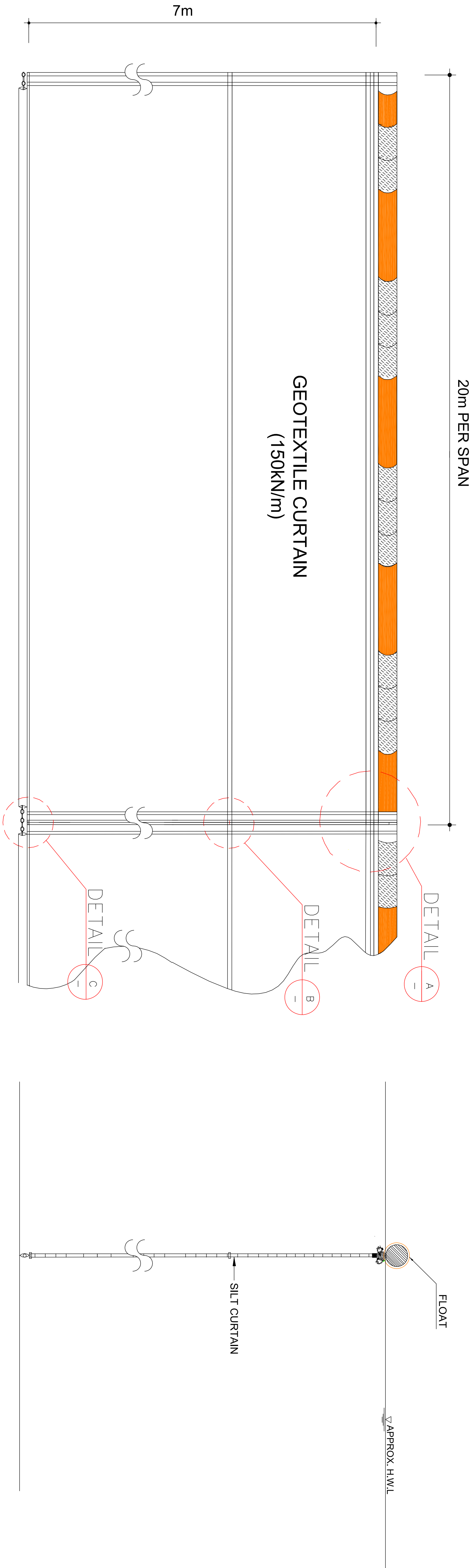
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Appendix C2 – Typical Detail of Hanging Type Silt Curtain

---

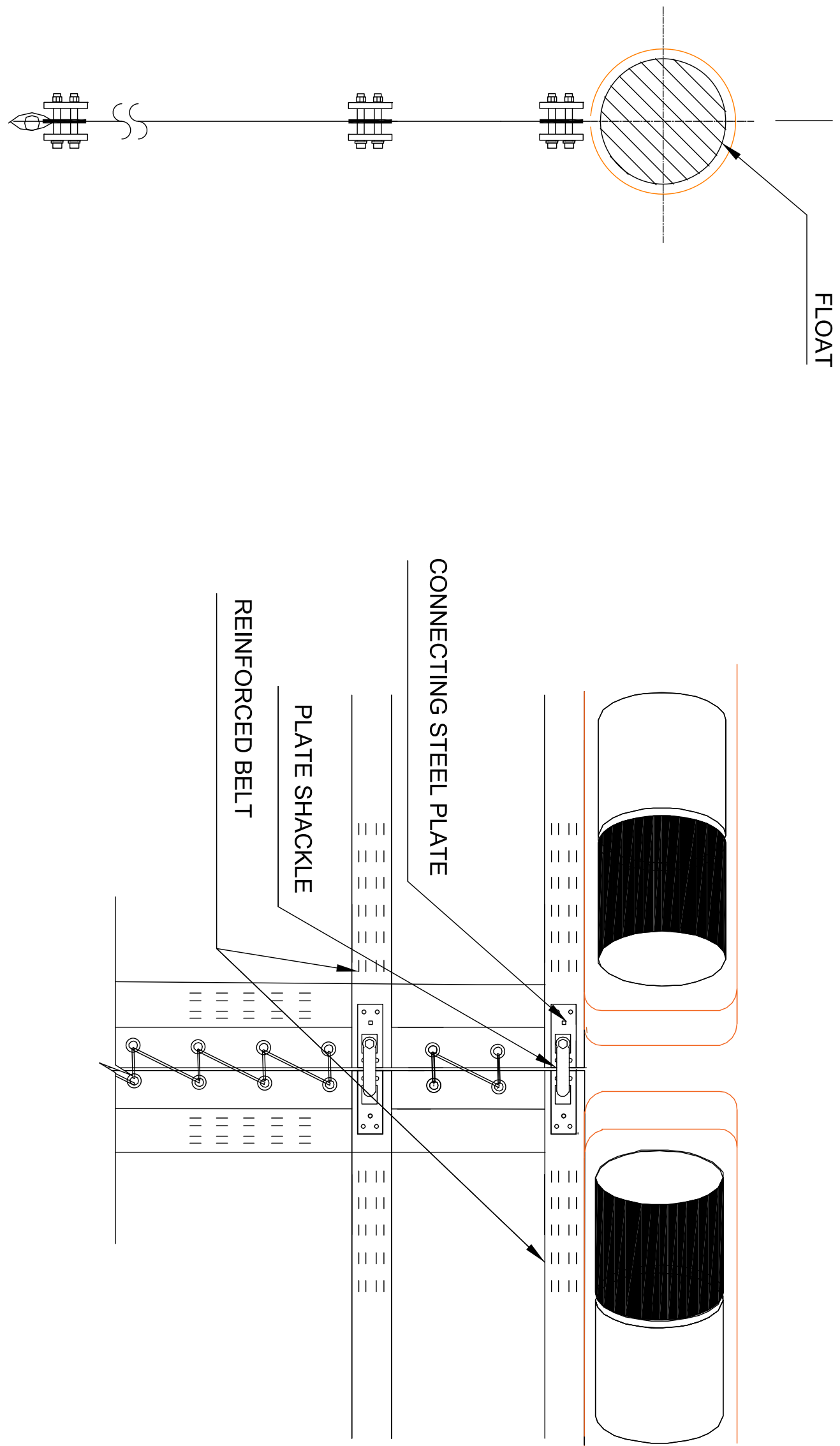
# SILT CURTAIN HANGING TYPE

(normal plate)



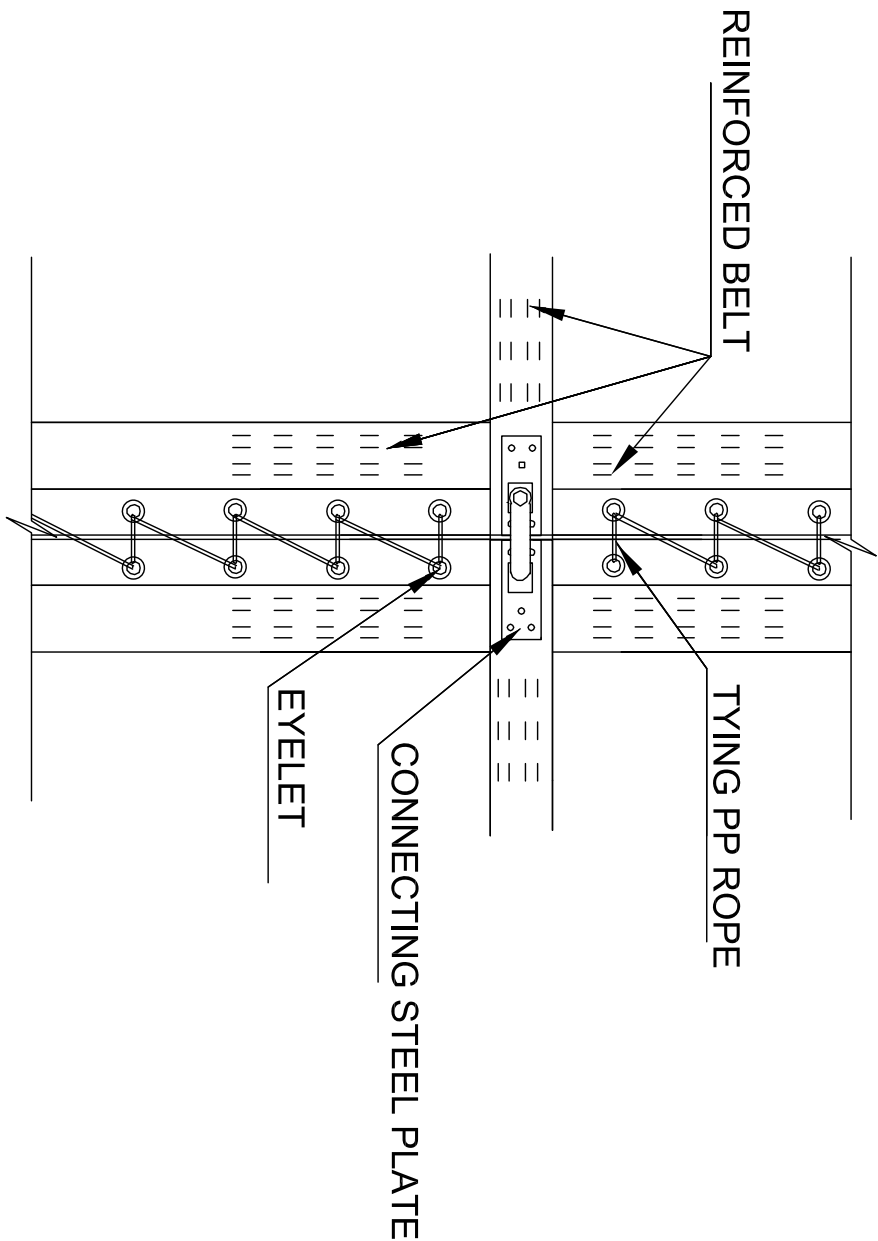
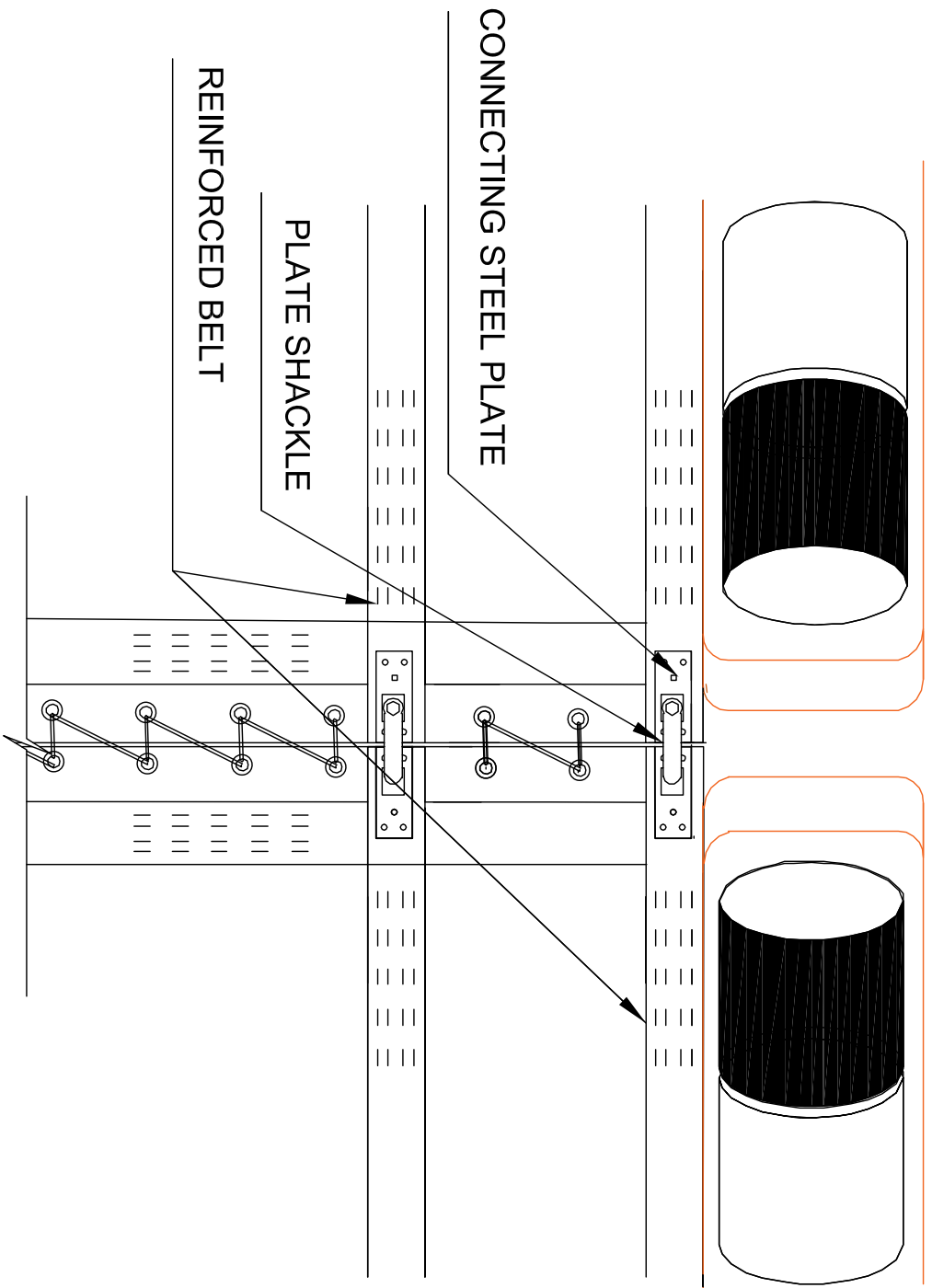
ELEVATION

SIDE VIEW

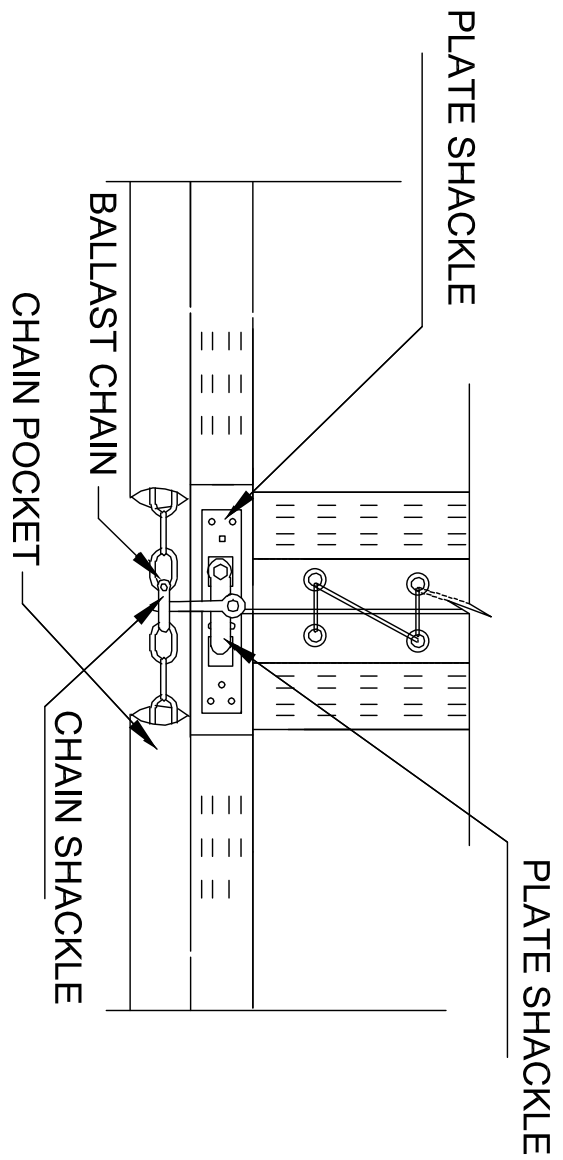


SIDE VIEW

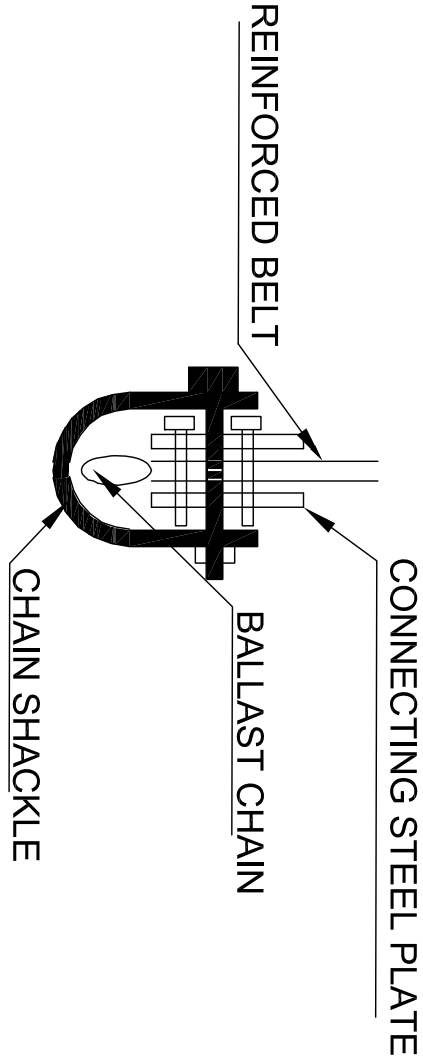
DETAIL A



DETAIL B



DETAIL C



PROJECT NO.

--

DRAWN

TCY

DRAWING TITLE:

TYPICAL DETAILS OF HANGING TYPE SILT CURTAIN

DRAWING NO.

GESCH/01

DATE

6 JUNE 2019



DC/2020/02

Construction of San Shek Wan Sewage Treatment Works,  
Associated Submarine Outfall and Pui O Sewerage Works  
Silt Curtain Deployment Plan

---

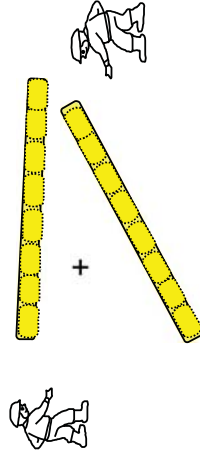
Appendix C3 – Installation for Silt Curtain

---

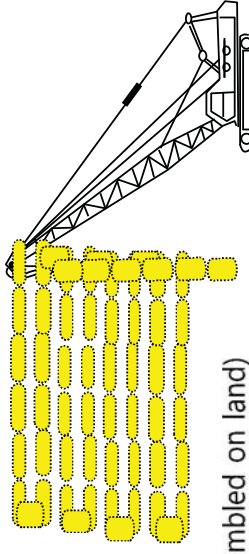
# Basic Installation Guide

Silt Protector

Flot & Curtain  
part

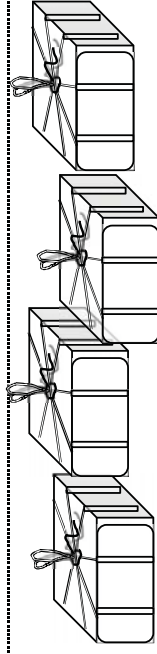


- Joint connection each unit of silt protector (assembled on land)

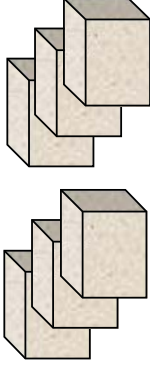


Silt Protector

Tonbag  
Anchor

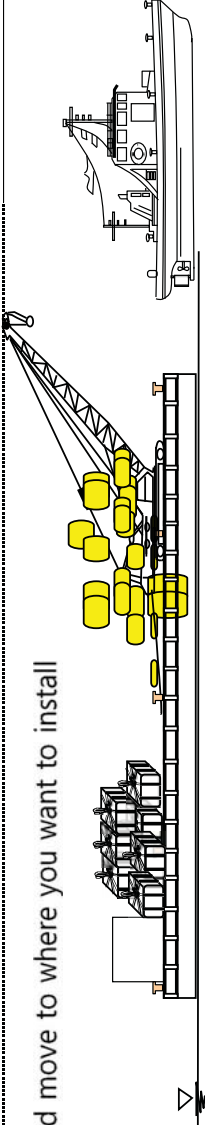


- Make Tonbag Anchor or Concrete Block



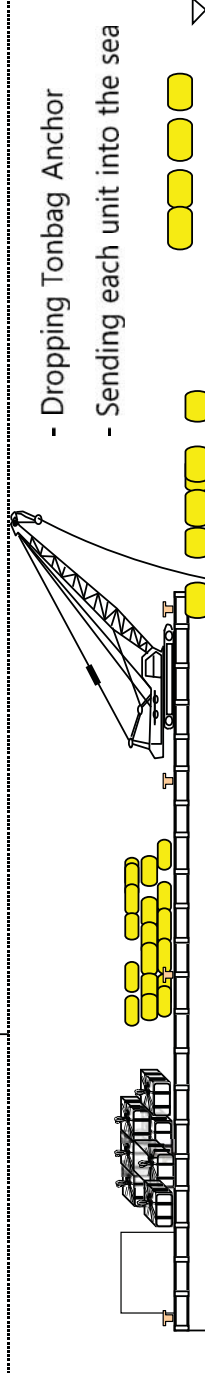
Loading  
&  
move

- Loading on to barge and move to where you want to install



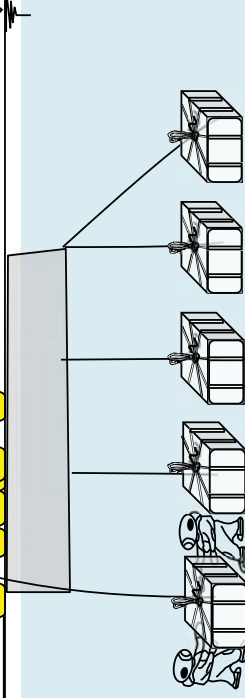
- Dropping Tonbag Anchor

- Sending each unit into the sea

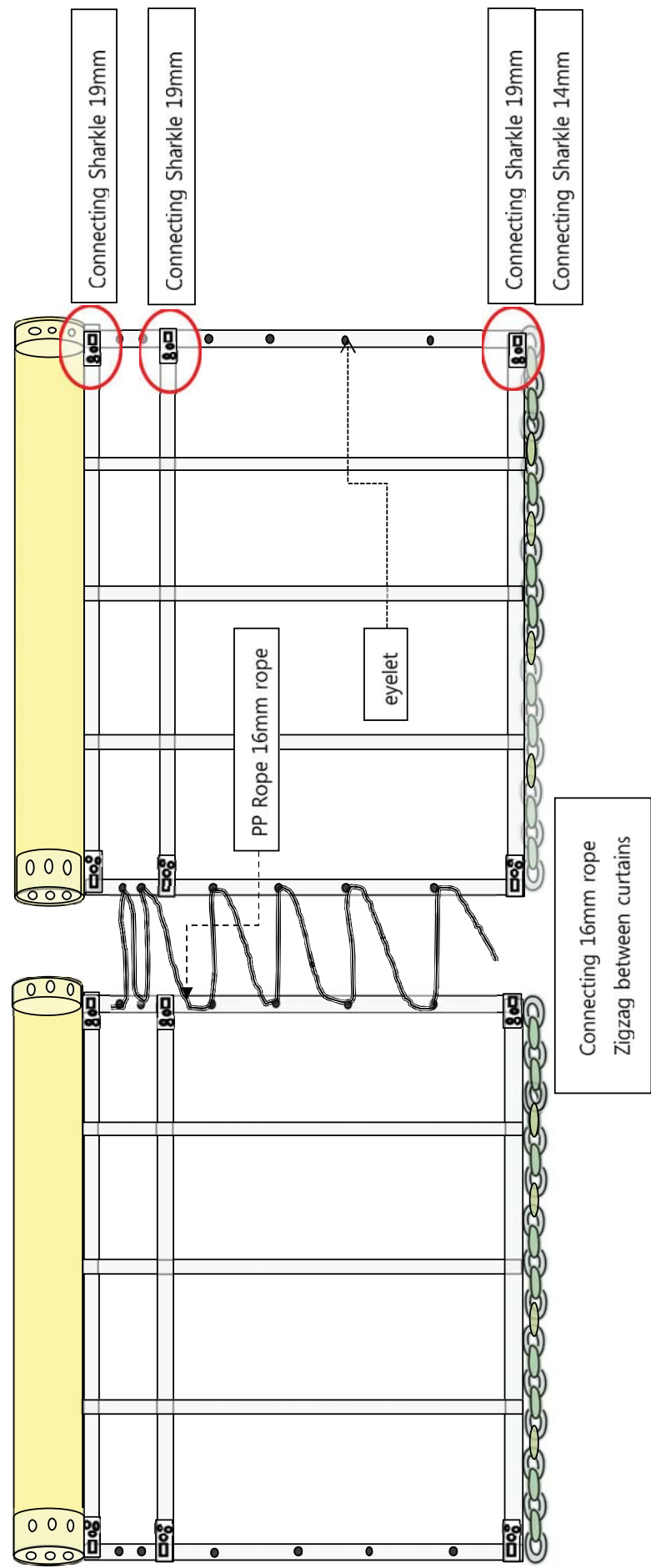


Installation

- Connect Tonbag anchor to the unit



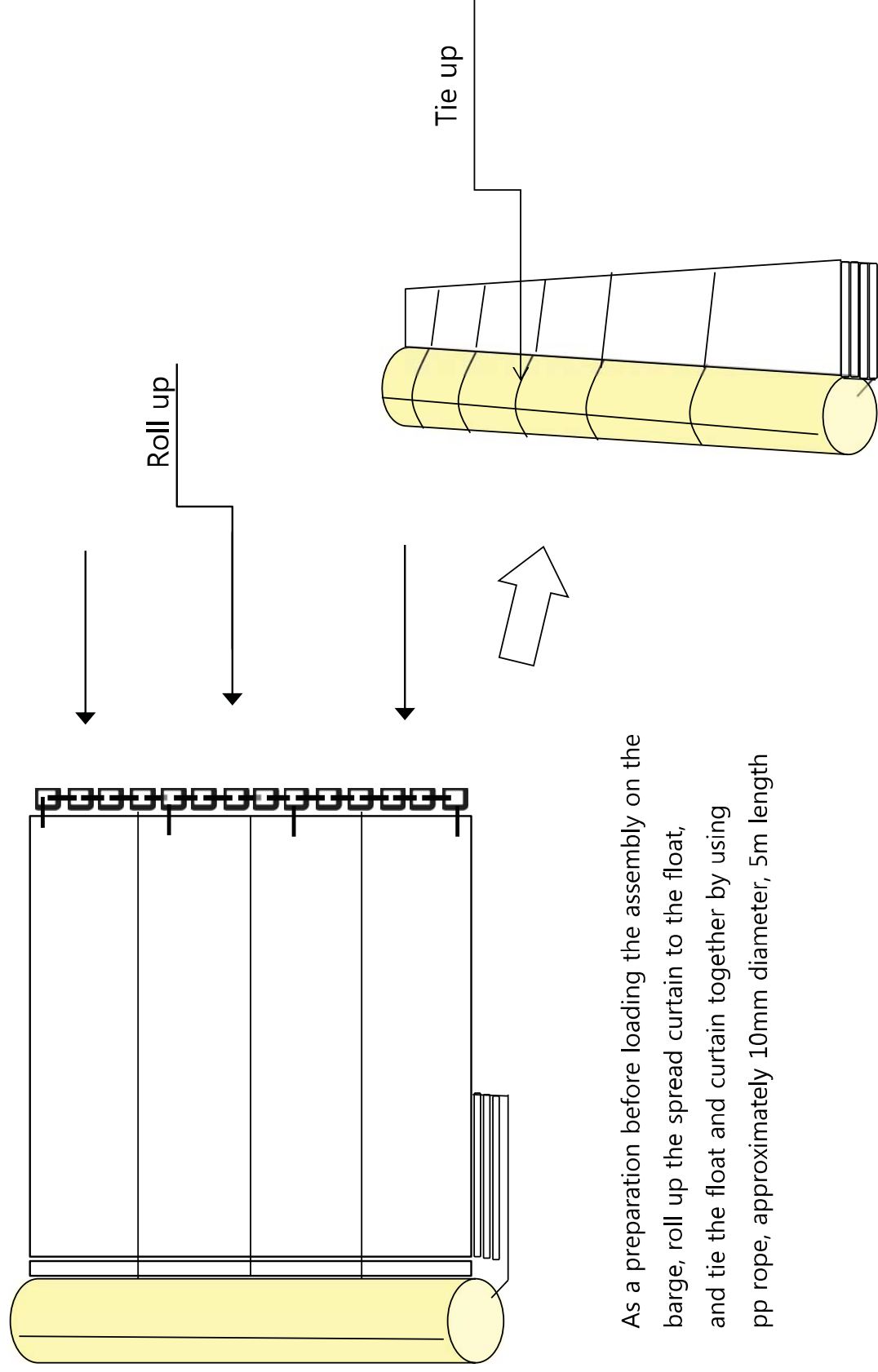
Installation Guide (Connecting curtain and curtain)



\* Number of connections(between curtain and curtain)

|                      | 19mm sharkle | No. of eyelet |
|----------------------|--------------|---------------|
| 2m height of curtain | 3            | 6             |
| 3m height of curtain | 4            | 9             |
| 4m height of curtain | 4            | 12            |
| 5m height of curtain | 5            | 15            |
| 6m height of curtain | 5            | 18            |

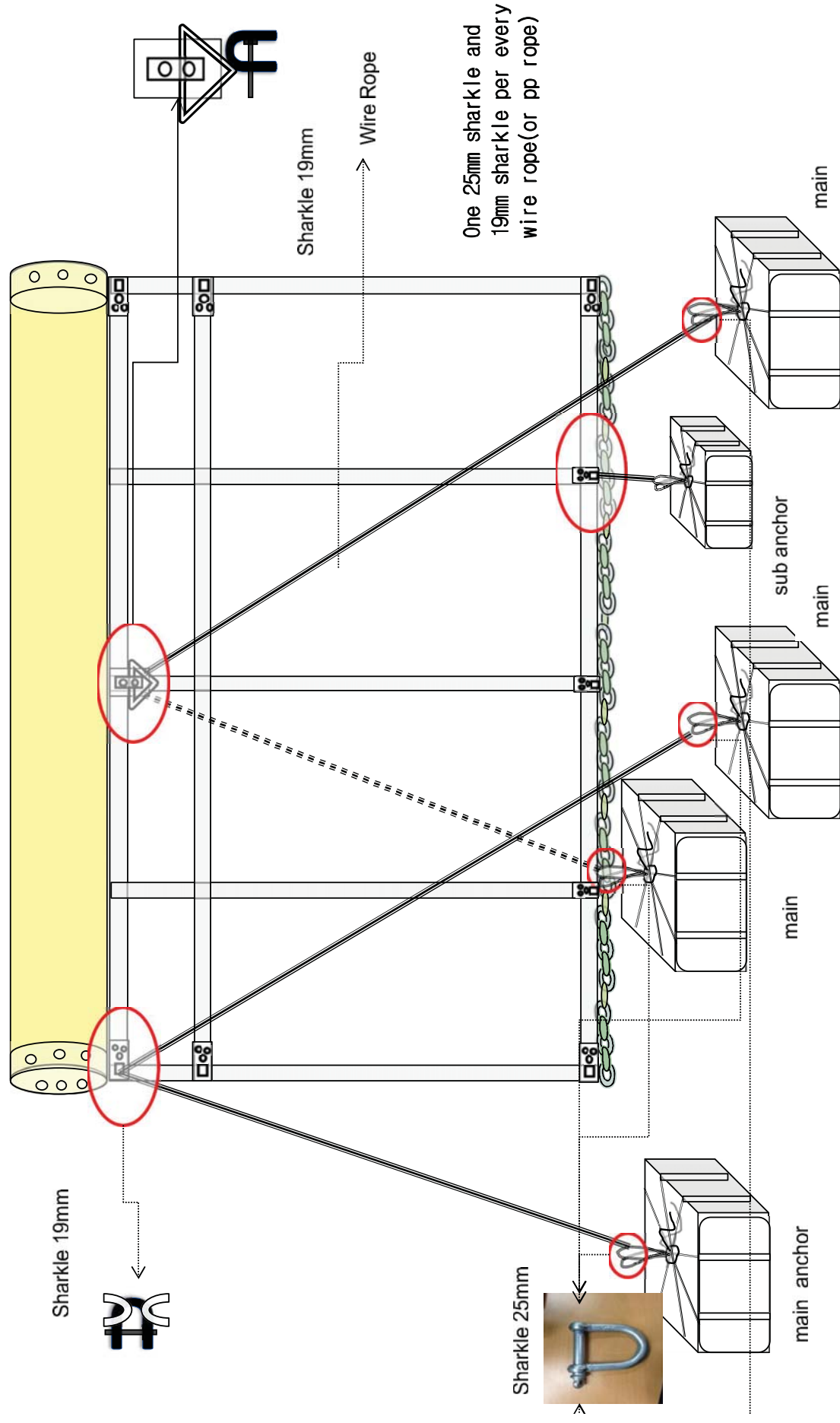
## Installation Guide (Temporary tying curtains)



As a preparation before loading the assembly on the barge, roll up the spread curtain to the float, and tie the float and curtain together by using pp rope, approximately 10mm diameter, 5m length



## Installation Guide (Connecting Curtain and Anchor)



Appendix D – Silt Curtain Inspection Checklist

Contract No: DC/2020/02  
Project Title: Construction of San Shek Wan Sewage Treatment Works, Associated Submarine Outfall and Pui O Sewerage Works

Ref. no.: \_\_\_\_\_  
Date: \_\_\_\_\_

Daily Silt Curtain Inspection List (for JV internal use)

| Item | Description                                       | Condition |    | Immediate Action Required? * |    | Target Rectification Date | Remark |
|------|---------------------------------------------------|-----------|----|------------------------------|----|---------------------------|--------|
|      |                                                   | Yes       | No | Yes                          | No |                           |        |
| 1    | Any floating debris/ refuse within silt curtain?  |           |    |                              |    |                           |        |
| 2    | Supporting frame / buoys in good condition?       |           |    |                              |    |                           |        |
| 3    | Tying rope in good condition?                     |           |    |                              |    |                           |        |
| 4    | Geotextile intact and in good condition           |           |    |                              |    |                           |        |
| 5    | Any obstruction to water flow between geotextile? |           |    |                              |    |                           |        |
| 6    | Flashlight inspection?                            |           |    |                              |    |                           |        |

\*Note: For silt curtain with defects which need to be rectified immediately, related marine works have to be stopped until rectification works are completed to the satisfaction of the *Supervisor*  
Please Tick the Appropriate Box

JV's Representative  
Inspected by : \_\_\_\_\_  
Post : \_\_\_\_\_  
  
Signature : \_\_\_\_\_  
Date : \_\_\_\_\_

Silt Curtain ID: \_\_\_\_\_  
  
Location: \_\_\_\_\_  
  
Inspection Date and Time: \_\_\_\_\_

Contract No: DC/2020/02  
Project Title: Construction of San Shek Wan Sewage Treatment Works, Associated Submarine Outfall and Pui O Sewerage Works

Ref. no.: \_\_\_\_\_  
Date: \_\_\_\_\_

Weekly Silt Curtain Inspection List (for JV and *Supervisor* joint inspection use)

| Item | Description                                       | Condition |    | Immediate Action Required? * |    | Target Rectification Date | Remark |
|------|---------------------------------------------------|-----------|----|------------------------------|----|---------------------------|--------|
|      |                                                   | Yes       | No | Yes                          | No |                           |        |
| 1    | Any floating debris/ refuse within silt curtain?  |           |    |                              |    |                           |        |
| 2    | Supporting frame / buoys in good condition?       |           |    |                              |    |                           |        |
| 3    | Tying to the platform in good condition?          |           |    |                              |    |                           |        |
| 4    | Geotextile intact and in good condition           |           |    |                              |    |                           |        |
| 5    | Any obstruction to water flow between geotextile? |           |    |                              |    |                           |        |
| 6    | Flashlight inspection?                            |           |    |                              |    |                           |        |

\*Note: For silt curtain with defects which need to be rectified immediately, related marine works have to be stopped until rectification works are completed to the satisfaction of the *Supervisor*  
Please Tick the Appropriate Box

JV's Representative  
Inspected by : \_\_\_\_\_  
Post : \_\_\_\_\_  
  
Signature : \_\_\_\_\_  
Date : \_\_\_\_\_

Supervisor's Representative  
Reviewed by : \_\_\_\_\_  
Post : \_\_\_\_\_  
  
Signature : \_\_\_\_\_  
Date : \_\_\_\_\_

Silt Curtain ID: \_\_\_\_\_  
  
Location: \_\_\_\_\_  
  
Inspection Date and Time: \_\_\_\_\_



Contract No: DC/2020/02  
Project Title: Construction of San Shek Wan Sewage Treatment Works, Associated Submarine Outfall and Pui O Sewerage Works

Ref. no.: \_\_\_\_\_  
Date: \_\_\_\_\_

Silt Curtain Inspection List (for Diver Team's use)

| Item                          | Description                                                                                    | Condition |    | Immediate Action Required? * |    | Target Rectification Date | Remark |
|-------------------------------|------------------------------------------------------------------------------------------------|-----------|----|------------------------------|----|---------------------------|--------|
|                               |                                                                                                | Yes       | No | Yes                          | No |                           |        |
| Part A - Geotextile           |                                                                                                |           |    |                              |    |                           |        |
| 1                             | Curtain remains intact and without gap                                                         |           |    |                              |    |                           |        |
| 2                             | Curtain in upright position                                                                    |           |    |                              |    |                           |        |
| 3                             | Curtain has no loose / flapping parts                                                          |           |    |                              |    |                           |        |
| 4                             | Curtain is securely attached at joints                                                         |           |    |                              |    |                           |        |
| 5                             | Curtain fitting (e.g. chains, bands, plates, joint connectors etc.) are intact and in position |           |    |                              |    |                           |        |
| 6                             | Curtain extends to seabed level                                                                |           |    |                              |    |                           |        |
| 7                             | Curtain hem is not weighted down by sediment deposition                                        |           |    |                              |    |                           |        |
| Part B - Ancillary Components |                                                                                                |           |    |                              |    |                           |        |
| 1                             | Anchor are undamaged and positions are correct                                                 |           |    |                              |    |                           |        |
| 2                             | Anchor lines are properly attached to the buoys / connectors of the silt curtain               |           |    |                              |    |                           |        |
| 3                             | No parts are detached from the silt curtain                                                    |           |    |                              |    |                           |        |

\*Note: For silt curtain with defects which need to be rectified immediately, related marine works have to be stopped until rectification works are completed to the satisfaction of the *Supervisor*  
Please Tick the Appropriate Box

Diver Team's Representative  
Inspected by : \_\_\_\_\_  
Post : \_\_\_\_\_  
  
Signature : \_\_\_\_\_  
Date : \_\_\_\_\_

Supervisor's Representative  
Reviewed by : \_\_\_\_\_  
Post : \_\_\_\_\_  
  
Signature : \_\_\_\_\_  
Date : \_\_\_\_\_

Silt Curtain ID: \_\_\_\_\_  
  
Location: \_\_\_\_\_  
  
Inspection Date and Time: \_\_\_\_\_

DC/2020/02

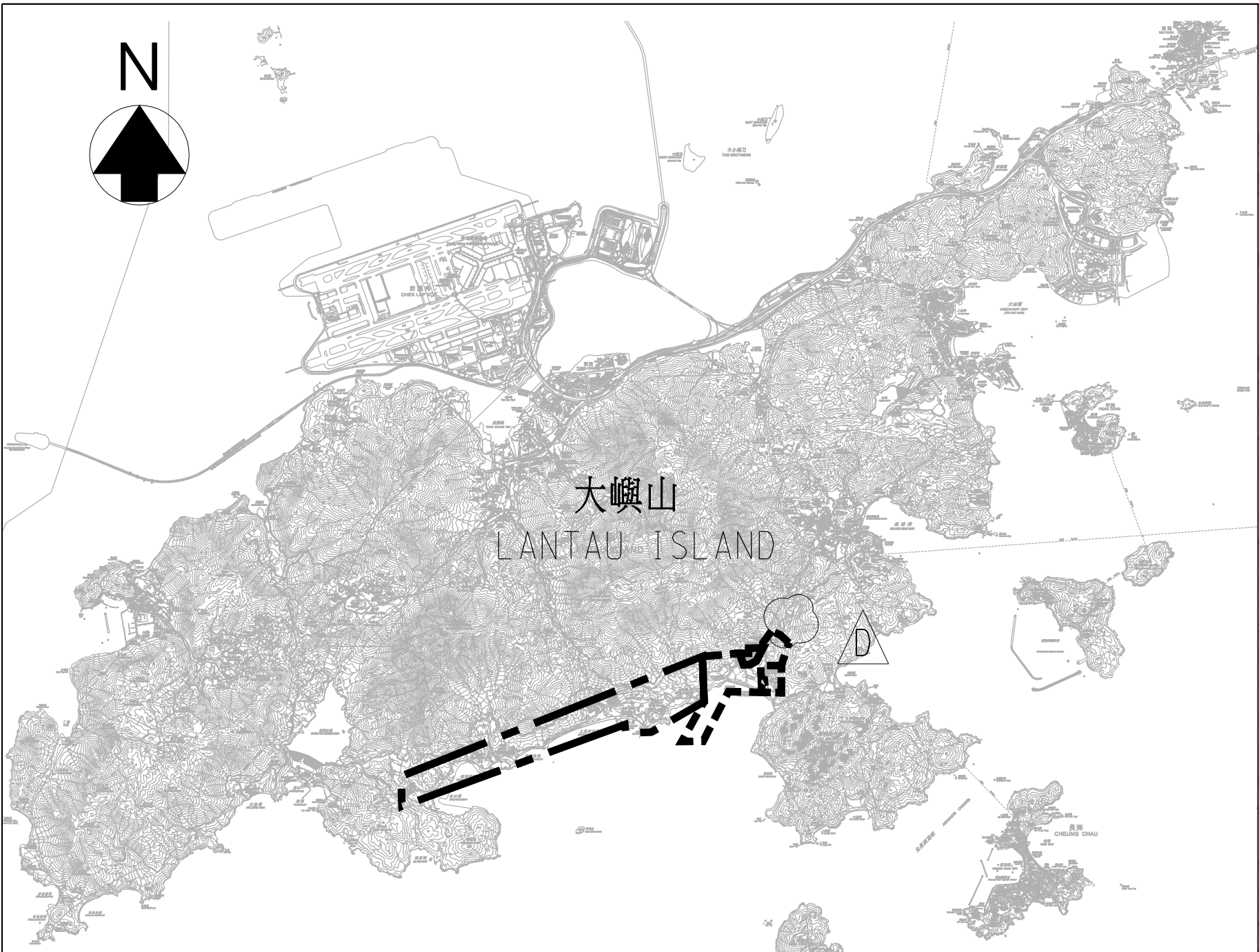
Construction of San Shek Wan Sewage Treatment Works,  
Associated Submarine Outfall and Pui O Sewerage Works  
Silt Curtain Deployment Plan

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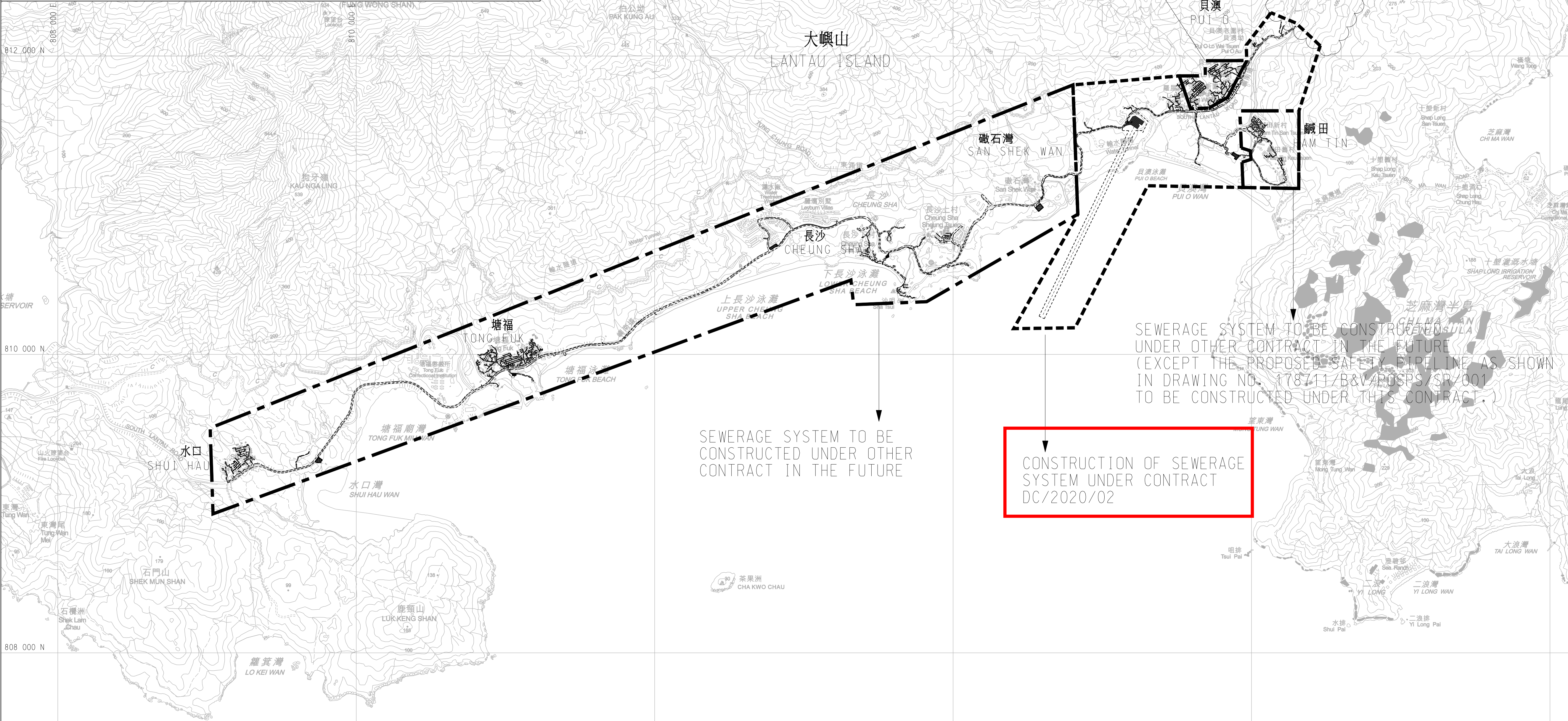
Appendix E1 – South Lantau Sewerage Works - Master Layout Plan & Site Layout for  
Overview of Marine Works

---





SITE PLAN  
1:100000



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|          |          |                      |         |
|----------|----------|----------------------|---------|
| D        | 11/20    | TENDER ADDENDUM NO.6 | BL      |
| C        | 11/20    | TENDER ADDENDUM NO.5 | BL      |
| B        | 11/20    | TENDER ADDENDUM NO.4 | BL      |
| A        | 09/20    | TENDER ADDENDUM NO.2 | TFL     |
| Revision | Date     | Description          | Initial |
|          | Designed | Checked              | Drawn   |
| Initial  | TFL      | BL                   | SZ      |
| Date     | 04/20    | 04/20                | 04/20   |
| Approved |          |                      |         |

Contract no.  
DC/2020/02

Contract title  
CONSTRUCTION OF SAN SHEK WAN  
SEWAGE TREATMENT WORKS,  
ASSOCIATED SUBMARINE OUTFALL  
AND PUI O SEWAGE WORKS

Drawing title  
SOUTH LANTAU SEWAGE  
WORKS – MASTER LAYOUT PLAN

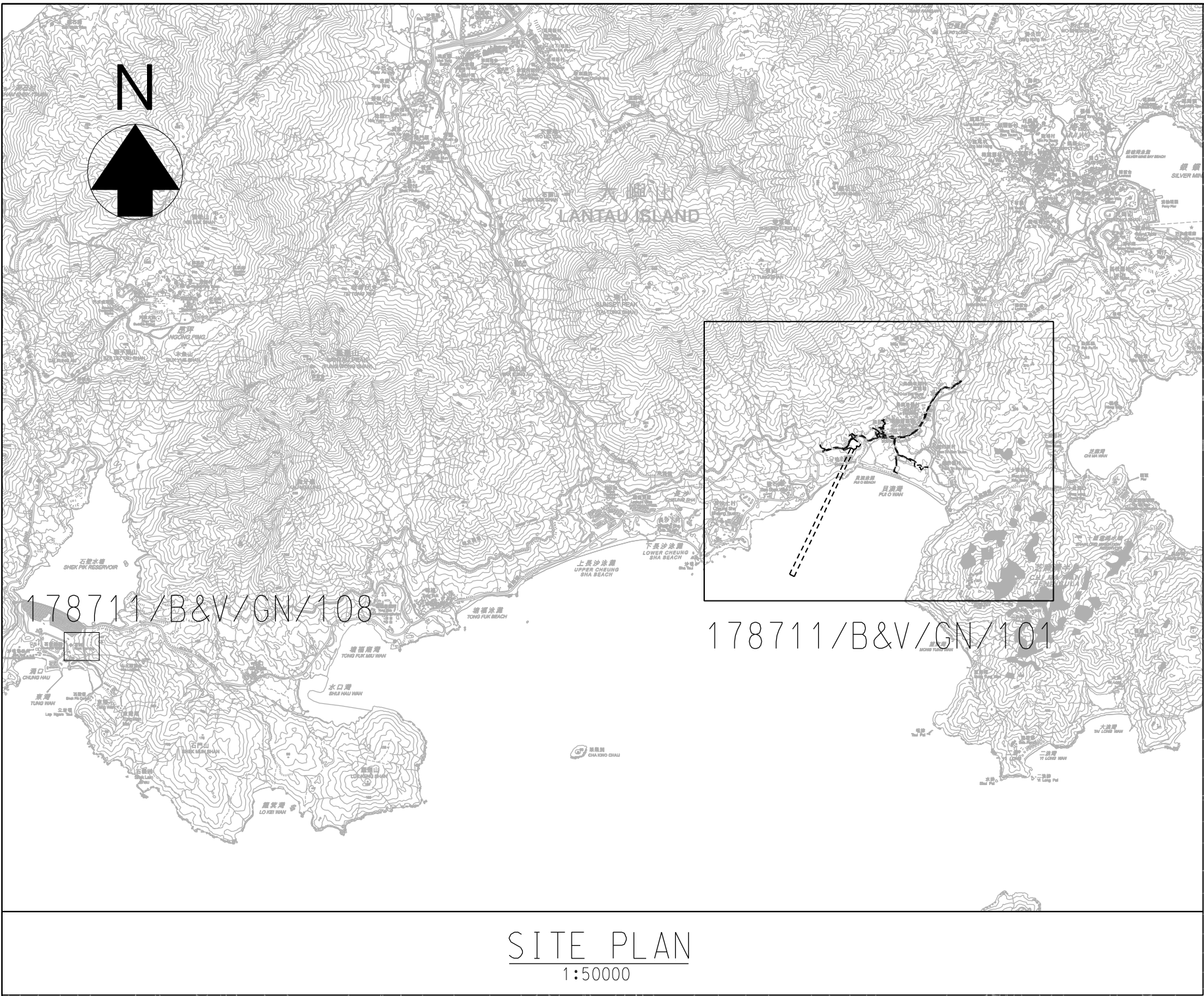
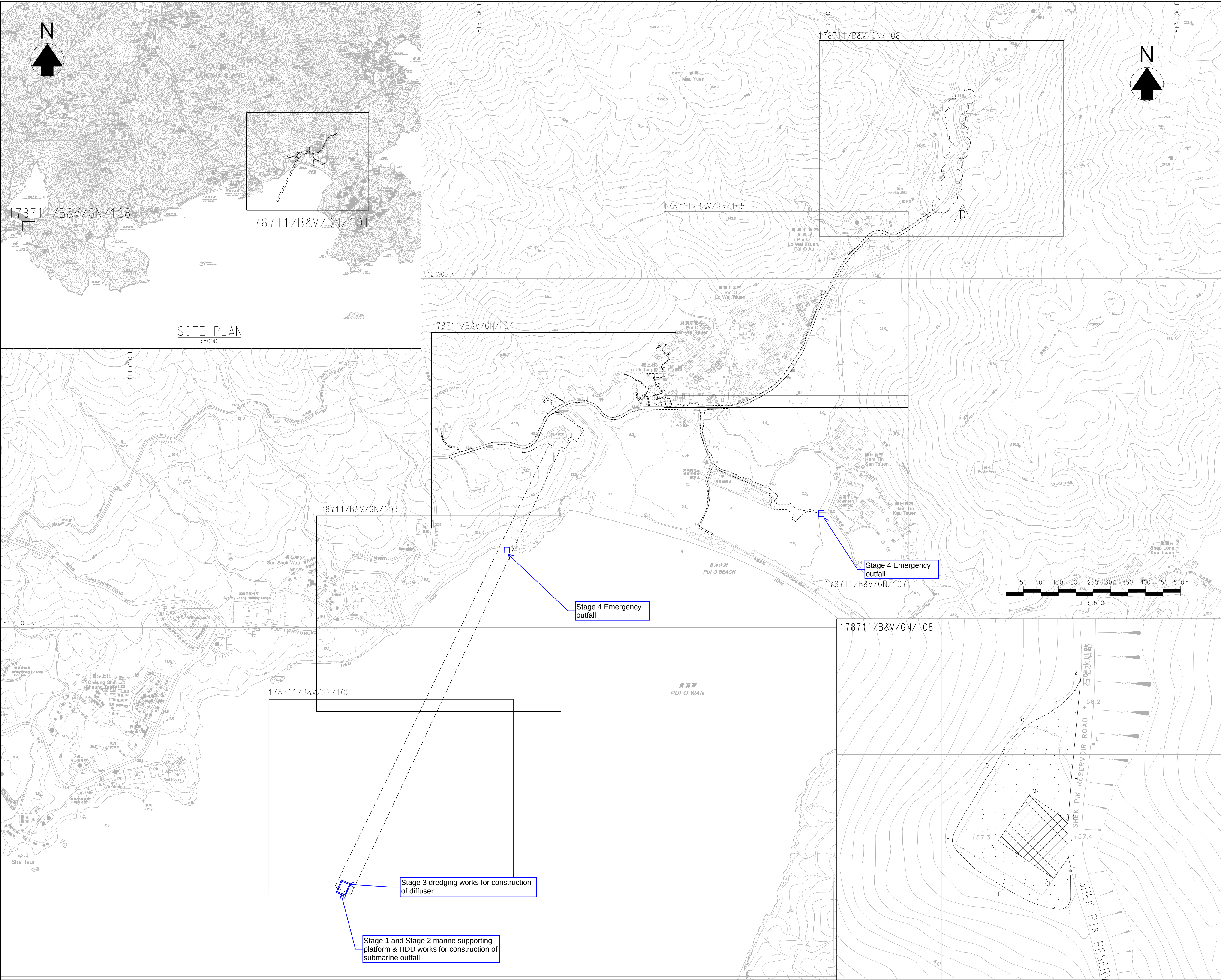
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|----------------------------------|---------------|
| Drawing no.<br>178711/B&V/GN/001 | Revision<br>D |
|----------------------------------|---------------|

Scale  
1 : 15000

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THE GOVERNMENT OF THE  
HONG KONG  
SPECIAL ADMINISTRATIVE REGION  
DRAINAGE SERVICES DEPARTMENT

BLACK & VEATCH HONG KONG LIMITED  
博威工程顧問有限公司





SITE PLAN  
1:50000

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NOTES:

1. FOR GENERAL NOTES, REFER TO 178711/B&V/GN/000.
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
3. ALL LEVELS ARE IN METRES AND REFER TO PRINCIPAL DATUM.
4. FOR THE ACCESS DATE OF EACH PORTION, REFER TO THE CONTRACT DATA PART 1.

LEGENDS:

- WORKS LIMIT
- WORKS AREA W1
- AREA FOR TEMPORARY OFFICE

Refer to Appendix B and E2 for the silt curtain extent.

|          |             |                      |         |
|----------|-------------|----------------------|---------|
| D        | 11/20       | TENDER ADDENDUM NO.6 | BL      |
| C        | 11/20       | TENDER ADDENDUM NO.4 | BL      |
| B        | 10/20       | TENDER ADDENDUM NO.3 | BL      |
| A        | 09/20       | TENDER ADDENDUM NO.2 | BL      |
| Revision | Date        | Description          | Initial |
|          | Designed    | Checked              | Drawn   |
| Initial  | TFL         | BL                   | SZ      |
| Date     | 04/20       | 04/20                | 04/20   |
| Approved | [Signature] |                      |         |

Contract no. DC/2020/02

Contract title  
CONSTRUCTION OF SAN SHEK WAN SEWAGE TREATMENT WORKS, ASSOCIATED SUBMARINE OUTFALL AND PUI O SEWERAGE WORKS

Drawing title  
PORTION OF SITE - KEY PLAN

SHEET 1 OF 8

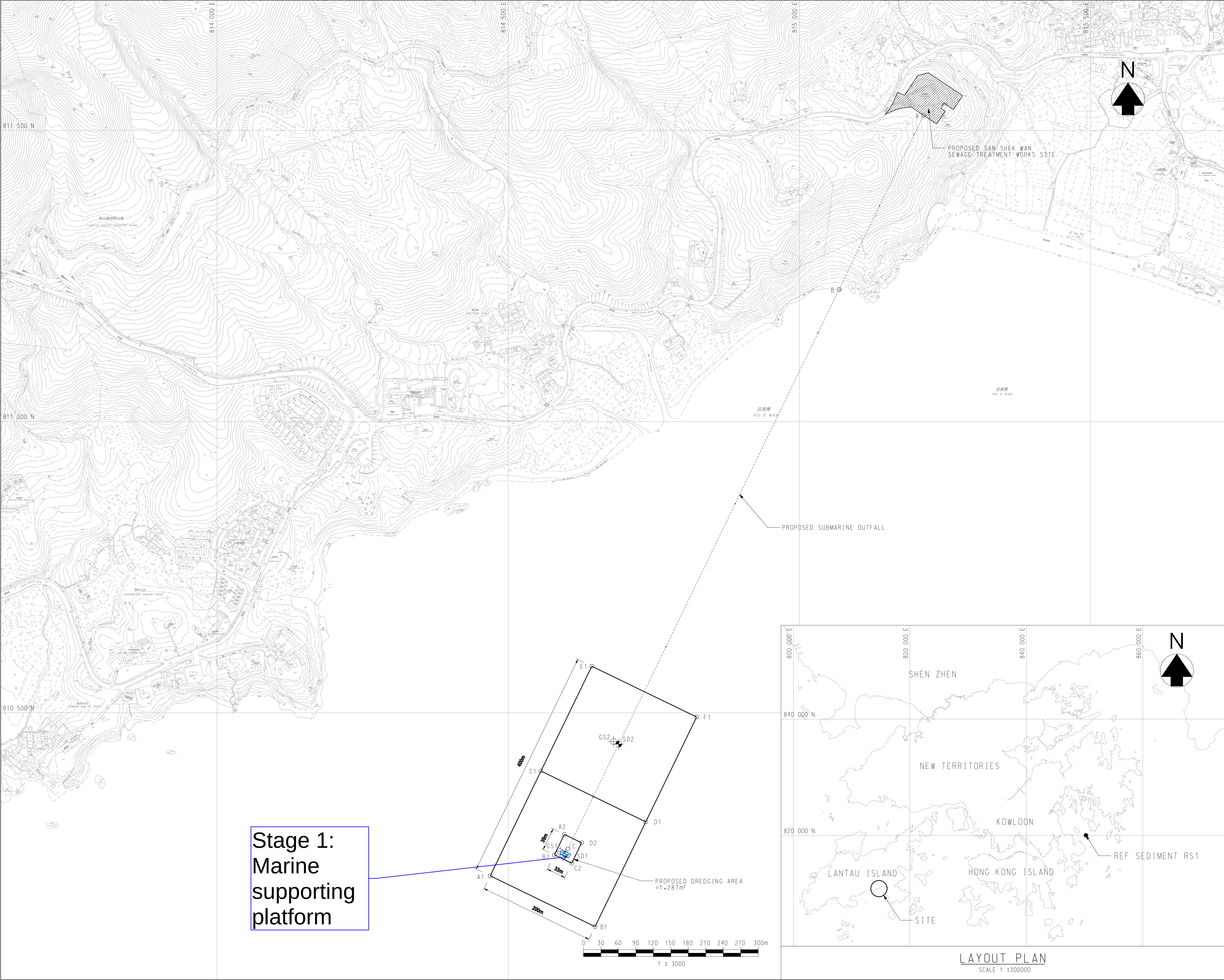
|                   |          |
|-------------------|----------|
| Drawing no.       | Revision |
| 178711/B&V/GN/101 | D        |

Scale  
A1 1:5000  
A3 1:10000

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DRAINAGE SERVICES DEPARTMENT

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- LEGEND:
- EXTEND OF WORKS AREA
  - PROPOSED DREDGING AREA
  - SAMPLING GRID
  - PROPOSED SUBMARINE OUTFALL
  - PROJECT-SPECIFIC DRILLHOLE FOR VERTICAL PROFILE SAMPLING
  - PROJECT-SPECIFIC GRAB SAMPLING
  - REFERENCE SAMPLE
  - CONTROL POINT

PROPOSED SAMPLING LOCATION

| GI STATION | EASTING    | NORTHING   |
|------------|------------|------------|
| SD1        | 814598.288 | 810257.256 |
| SD2        | 814689.837 | 810446.250 |
| GS1        | 814589.288 | 810261.615 |
| GS2        | 814680.838 | 810450.609 |

PROPOSED SUBMARINE OUTFALL

| GI STATION | EASTING    | NORTHING   |
|------------|------------|------------|
| A          | 815213.020 | 811526.299 |
| B          | 815068.054 | 811227.033 |
| C          | 814602.647 | 810266.256 |

PROPOSED DREDGING AREA

| GI STATION | EASTING    | NORTHING   |
|------------|------------|------------|
| A2         | 814596.299 | 810290.998 |
| B2         | 814579.297 | 810255.899 |
| C2         | 814608.996 | 810241.513 |
| D2         | 814625.998 | 810276.612 |

SAMPLING GRID

| GI STATION | EASTING    | NORTHING   |
|------------|------------|------------|
| A1         | 814469.055 | 810219.854 |
| B1         | 814649.049 | 810132.664 |
| C1         | 814556.245 | 810399.848 |
| D1         | 814736.239 | 810312.658 |
| E1         | 814643.436 | 810579.842 |
| F1         | 814823.430 | 810492.652 |

| Revision | Date     | Description | Initial |
|----------|----------|-------------|---------|
|          | Designed | Checked     | Drawn   |
| Initial  | TFL      | BL          | SZ      |
| Date     | 04/20    | 04/20       | 04/20   |
| Approved |          |             |         |

Contract no. DC/2020/02

Contract title CONSTRUCTION OF SAN SHEK WAN SEWAGE TREATMENT WORKS, ASSOCIATED SUBMARINE OUTFALL AND PUI O SEWERAGE WORKS

Drawing title LOCATION PLAN OF MARINE SEDIMENT SAMPLING

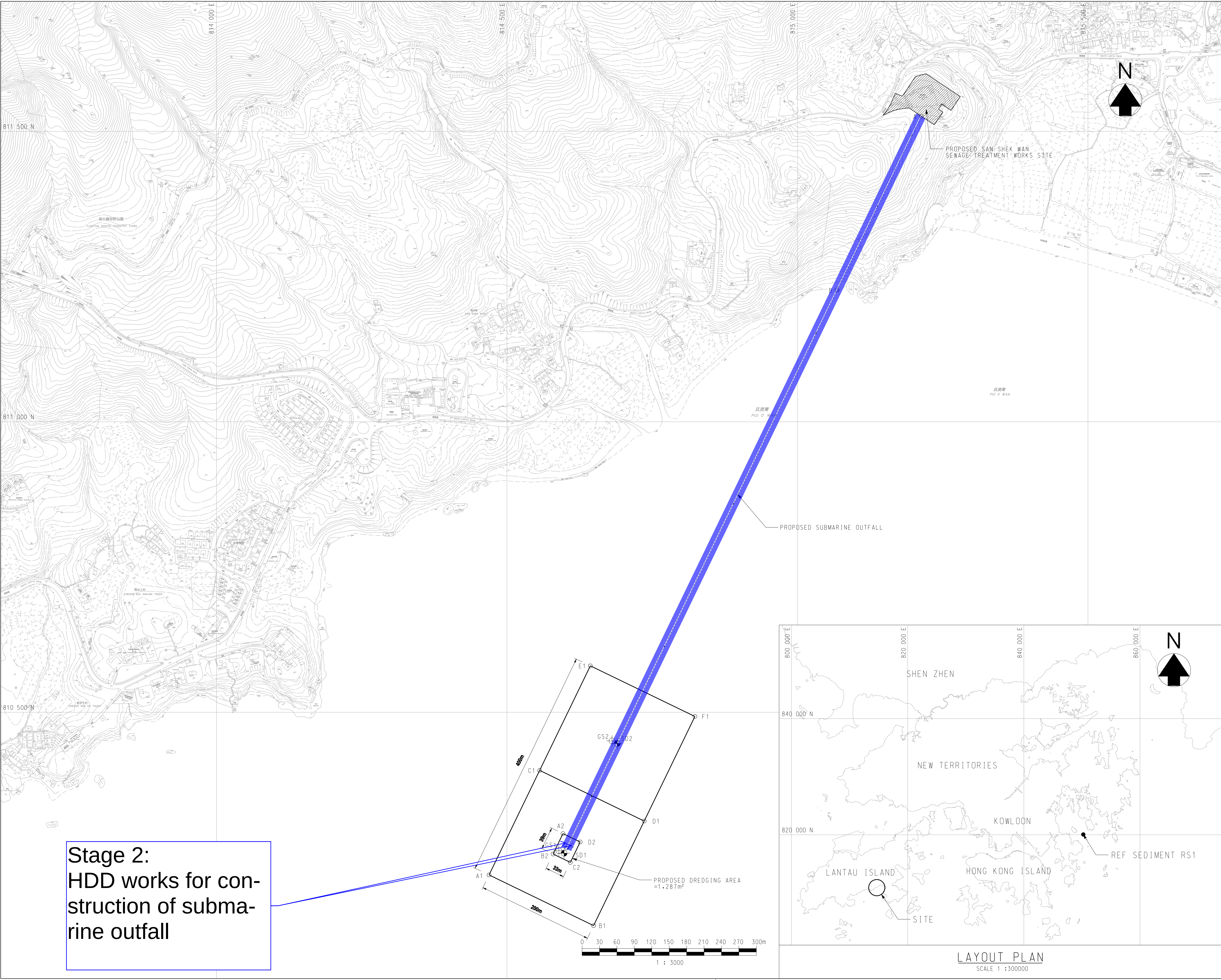
Drawing no. 178711/B&V/SSWSTW/SO/201 Revision —

Scale 1 : 3000

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LEGEND:

- EXITEND OF WORKS AREA
- PROPOSED DREDGING AREA
- SAMPLING GRID
- PROPOSED SUBMARINE OUTFALL
- PROJECT-SPECIFIC DRILLHOLE FOR VERTICAL PROFILE SAMPLING
- PROJECT-SPECIFIC GRAB SAMPLING
- REFERENCE SAMPLE
- CONTROL POINT

PROPOSED SAMPLING LOCATION

| GI STATION | EASTING    | NORTHING   |
|------------|------------|------------|
| SD1        | 814598.288 | 810257.256 |
| SD2        | 814689.837 | 810446.250 |
| GS1        | 814589.288 | 810261.615 |
| GS2        | 814680.838 | 810450.609 |

PROPOSED SUBMARINE OUTFALL

| GI STATION | EASTING    | NORTHING   |
|------------|------------|------------|
| A          | 815213.020 | 811526.299 |
| B          | 815068.054 | 811227.033 |
| C          | 814602.647 | 810266.256 |

PROPOSED DREDGING AREA

| GI STATION | EASTING    | NORTHING   |
|------------|------------|------------|
| A2         | 814596.299 | 810290.998 |
| B2         | 814579.297 | 810255.899 |
| C2         | 814608.996 | 810241.513 |
| D2         | 814625.998 | 810276.612 |

SAMPLING GRID

| GI STATION | EASTING    | NORTHING   |
|------------|------------|------------|
| A1         | 814469.055 | 810219.854 |
| B1         | 814649.049 | 810132.664 |
| C1         | 814556.245 | 810399.848 |
| D1         | 814736.239 | 810312.658 |
| E1         | 814643.436 | 810579.842 |
| F1         | 814823.430 | 810492.652 |

| Revision | Date     | Description | Initial |
|----------|----------|-------------|---------|
|          | Designed | Checked     | Drawn   |
| Initial  | TFL      | BL          | SZ      |
| Date     | 04/20    | 04/20       | 04/20   |
| Approved |          |             |         |

|              |            |
|--------------|------------|
| Contract no. | DC/2020/02 |
|--------------|------------|

|                |                                                                                                           |
|----------------|-----------------------------------------------------------------------------------------------------------|
| Contract title | CONSTRUCTION OF SAN SHEK WAN SEWAGE TREATMENT WORKS, ASSOCIATED SUBMARINE OUTFALL AND PU/O SEWERAGE WORKS |
|----------------|-----------------------------------------------------------------------------------------------------------|

|               |                                           |
|---------------|-------------------------------------------|
| Drawing title | LOCATION PLAN OF MARINE SEDIMENT SAMPLING |
|---------------|-------------------------------------------|

|             |                          |
|-------------|--------------------------|
| Drawing no. | 178711/B&V/SSWSTW/SO/201 |
| Revision    | —                        |

|       |          |
|-------|----------|
| Scale | 1 : 3000 |
|-------|----------|



Plot Date = 10/22/2020

CAD Filename = Y:\Daily Work\00 From SZ Design Team\178711 - South Lantau Sewerage Works\Tender Drawing\DGN\178711-B&V-SSWSTW-SO-201.dgn





LEGEND:

- EXITEND OF WORKS AREA
- PROPOSED DREDGING AREA
- SAMPLING GRID
- PROPOSED SUBMARINE OUTFALL
- PROJECT-SPECIFIC DRILLHOLE FOR VERTICAL PROFILE SAMPLING
- PROJECT-SPECIFIC GRAB SAMPLING
- REFERENCE SAMPLE
- CONTROL POINT

PROPOSED SAMPLING LOCATION

| GI STATION | EASTING    | NORTHING   |
|------------|------------|------------|
| SD1        | 814598.288 | 810257.256 |
| SD2        | 814689.837 | 810446.250 |
| GS1        | 814589.288 | 810261.615 |
| GS2        | 814680.838 | 810450.609 |

PROPOSED SUBMARINE OUTFALL

| GI STATION | EASTING    | NORTHING   |
|------------|------------|------------|
| A          | 815213.020 | 811526.299 |
| B          | 815068.054 | 811227.033 |
| C          | 814602.647 | 810266.256 |

PROPOSED DREDGING AREA

| GI STATION | EASTING    | NORTHING   |
|------------|------------|------------|
| A2         | 814596.299 | 810290.998 |
| B2         | 814579.297 | 810255.899 |
| C2         | 814608.996 | 810241.513 |
| D2         | 814625.998 | 810276.612 |

SAMPLING GRID

| GI STATION | EASTING    | NORTHING   |
|------------|------------|------------|
| A1         | 814469.055 | 810219.854 |
| B1         | 814649.049 | 810132.664 |
| C1         | 814556.245 | 810399.848 |
| D1         | 814736.239 | 810312.658 |
| E1         | 814643.436 | 810579.842 |
| F1         | 814823.430 | 810492.652 |

| Revision                                                                              | Date     | Description |       |         | Initial |
|---------------------------------------------------------------------------------------|----------|-------------|-------|---------|---------|
|                                                                                       | Designed | Checked     | Drawn | Checked |         |
| Initial                                                                               | TFL      | BL          | SZ    | CSC     |         |
| Date                                                                                  | 04/20    | 04/20       | 04/20 | 04/20   |         |
| Approved                                                                              |          |             |       |         |         |
|  |          |             |       |         |         |

|                |                                                                                                            |
|----------------|------------------------------------------------------------------------------------------------------------|
| Contract no.   | DC/2020/02                                                                                                 |
| Contract title | CONSTRUCTION OF SAN SHEK WAN SEWAGE TREATMENT WORKS, ASSOCIATED SUBMARINE OUTFALL AND PUI O SEWERAGE WORKS |

|               |                                           |
|---------------|-------------------------------------------|
| Drawing title | LOCATION PLAN OF MARINE SEDIMENT SAMPLING |
| Drawing no.   | 178711/B&V/SSWSTW/SO/201                  |
| Revision      | —                                         |

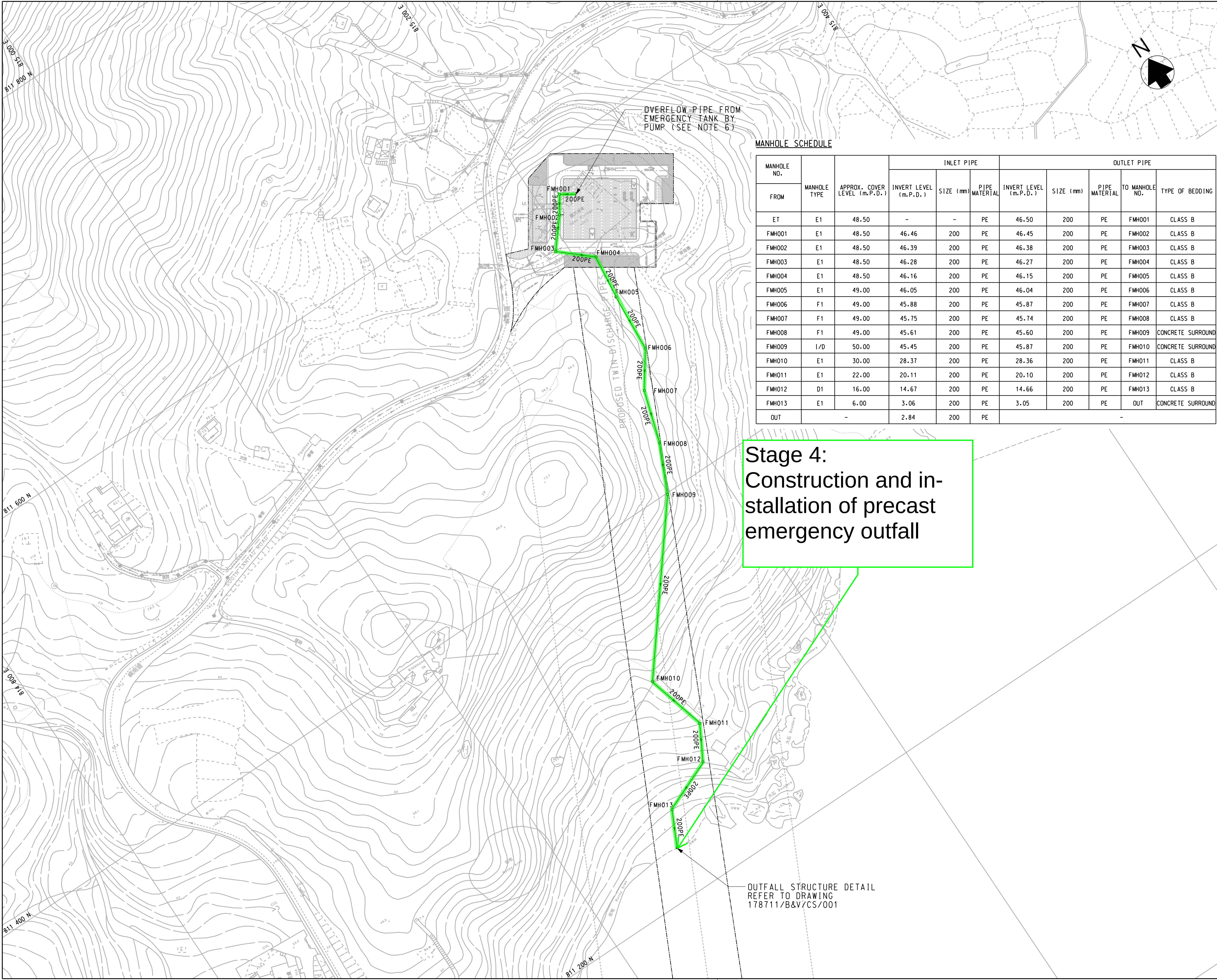
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DRAINAGE SERVICES DEPARTMENT

BLACK & VEATCH HONG KONG LIMITED  
博威工程顧問有限公司

Plot Date = 10/22/2020





OVERFLOW PIPE FROM  
EMERGENCY TANK BY  
PUMP (SEE NOTE 6)

MANHOLE SCHEDULE

| MANHOLE NO. | FROM | MANHOLE TYPE | APPROX. COVER LEVEL (m.P.D.) | INLET PIPE            |           |               | OUTLET PIPE           |           |               |                |                   |
|-------------|------|--------------|------------------------------|-----------------------|-----------|---------------|-----------------------|-----------|---------------|----------------|-------------------|
|             |      |              |                              | INVERT LEVEL (m.P.D.) | SIZE (mm) | PIPE MATERIAL | INVERT LEVEL (m.P.D.) | SIZE (mm) | PIPE MATERIAL | TO MANHOLE NO. | TYPE OF BEDDING   |
| ET          | E1   |              | 48.50                        | -                     | -         | PE            | 46.50                 | 200       | PE            | FMH001         | CLASS B           |
| FMH001      | E1   |              | 48.50                        | 46.46                 | 200       | PE            | 46.45                 | 200       | PE            | FMH002         | CLASS B           |
| FMH002      | E1   |              | 48.50                        | 46.39                 | 200       | PE            | 46.38                 | 200       | PE            | FMH003         | CLASS B           |
| FMH003      | E1   |              | 48.50                        | 46.28                 | 200       | PE            | 46.27                 | 200       | PE            | FMH004         | CLASS B           |
| FMH004      | E1   |              | 48.50                        | 46.16                 | 200       | PE            | 46.15                 | 200       | PE            | FMH005         | CLASS B           |
| FMH005      | E1   |              | 49.00                        | 46.05                 | 200       | PE            | 46.04                 | 200       | PE            | FMH006         | CLASS B           |
| FMH006      | F1   |              | 49.00                        | 45.88                 | 200       | PE            | 45.87                 | 200       | PE            | FMH007         | CLASS B           |
| FMH007      | F1   |              | 49.00                        | 45.75                 | 200       | PE            | 45.74                 | 200       | PE            | FMH008         | CLASS B           |
| FMH008      | F1   |              | 49.00                        | 45.61                 | 200       | PE            | 45.60                 | 200       | PE            | FMH009         | CONCRETE SURROUND |
| FMH009      | I/D  |              | 50.00                        | 45.45                 | 200       | PE            | 45.87                 | 200       | PE            | FMH010         | CONCRETE SURROUND |
| FMH010      | E1   |              | 30.00                        | 28.37                 | 200       | PE            | 28.36                 | 200       | PE            | FMH011         | CLASS B           |
| FMH011      | E1   |              | 22.00                        | 20.11                 | 200       | PE            | 20.10                 | 200       | PE            | FMH012         | CLASS B           |
| FMH012      | D1   |              | 16.00                        | 14.67                 | 200       | PE            | 14.66                 | 200       | PE            | FMH013         | CLASS B           |
| FMH013      | E1   |              | 6.00                         | 3.06                  | 200       | PE            | 3.05                  | 200       | PE            | OUT            | CONCRETE SURROUND |
| OUT         |      |              | -                            | 2.84                  | 200       | PE            | -                     | -         | -             | -              | -                 |

Stage 4:  
Construction and in-  
stallation of precast  
emergency outfall

OUTFALL STRUCTURE DETAIL  
REFER TO DRAWING  
178711/B&V/CS/001

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NOTE:

- FOR GENERAL NOTES, REFER TO 178711/B&V/GN/000.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
- ALL LEVELS ARE IN METRES AND REFER TO PRINCIPAL DATUM.
- THE PIPE MATERIAL SHALL BE PE PIPE UNLESS OTHERWISE STATED.
- THE PIPE SIZE OF PE PIPE SHALL DENOTE THE OUTER DIAMETER.
- THE OVERFLOW PIPE SHALL BE DESIGNED BY THE CONTRACTOR.
- THE LOCATIONS OF THE PROPOSED MANHOLE AND ALIGNMENT OF EMERGENCY DISCHARGE PIPE AS SHOWN ON THE DRAWINGS ARE INDICATIVE ONLY. EXACT LOCATIONS ARE TO BE SET OUT BY THE CONTRACTOR AND AGREED BY THE SUPERVISOR ON SITE.

LEGENDS:

- WORKS LIMIT
- PROPOSED SEWER AND MANHOLE
- PROPOSED RISING MAIN
- COMPENSATED MIXED WOODLAND
- PROPOSED LANDSCAPE AREA
- ACCESS ROAD

|          |          |                      |         |
|----------|----------|----------------------|---------|
| C        | 11/20    | TENDER ADDENDUM NO.5 | BL      |
| B        | 11/20    | TENDER ADDENDUM NO.4 | BL      |
| A        | 10/20    | TENDER ADDENDUM NO.3 | BL      |
| Revision | Date     | Description          | Initial |
|          | Designed | Checked              | Drawn   |
| Initial  | TFL      | BL                   | SZ      |
| Date     | 04/20    | 04/20                | 04/20   |
| Approved |          |                      |         |

Contract no.  
DC/2020/02

Contract title  
CONSTRUCTION OF SAN SHEK WAN  
SEWAGE TREATMENT WORKS,  
ASSOCIATED SUBMARINE OUTFALL  
AND PU/O SEWERAGE WORKS

Drawing title  
SAN SHEK WAN  
SEWAGE TREATMENT WORKS  
EMERGENCY DISCHARGE PIPE  
LAYOUT PLAN

Drawing no.  
178711/B&V/SSWSTW/SR/001

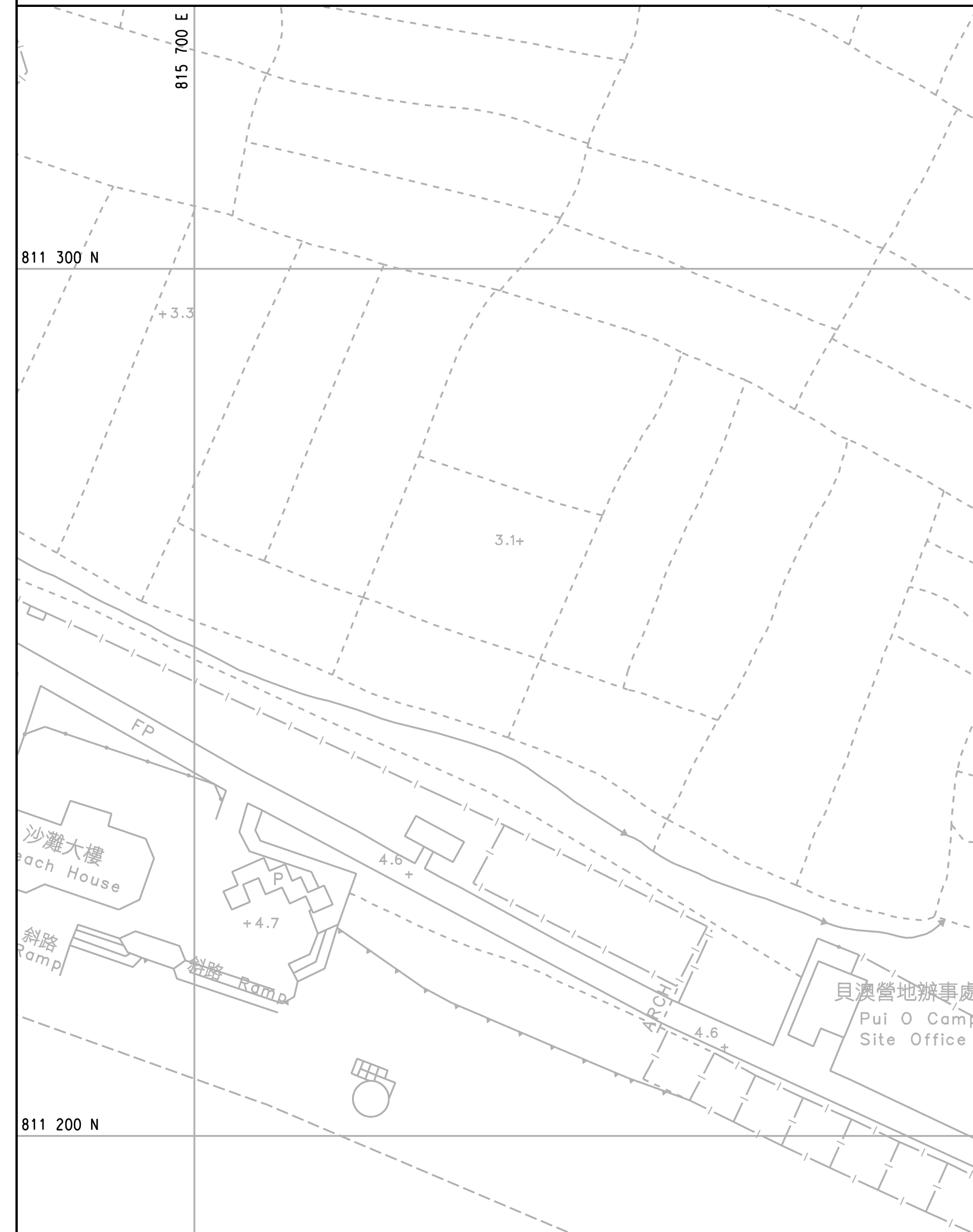
Revision  
C

Scale  
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A3 1 : 2000

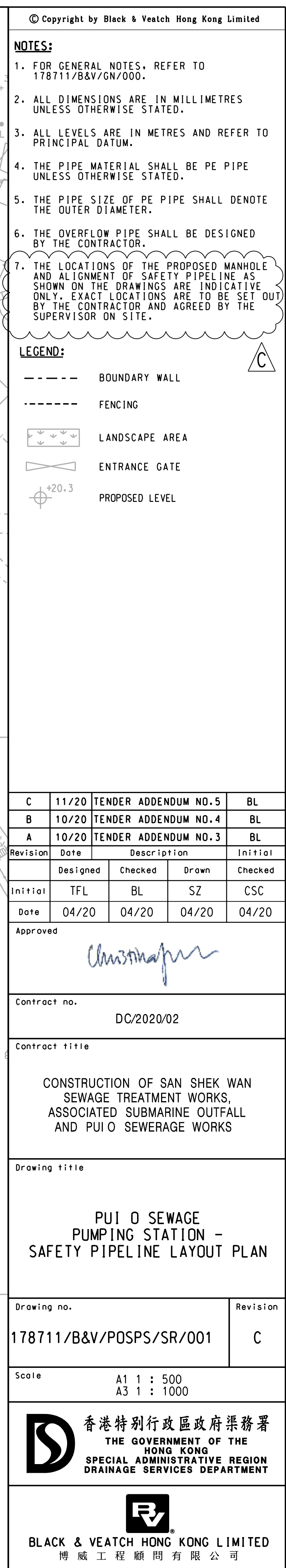
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| MANHOLE NO. | MANHOLE TYPE | APPROX. COVER LEVEL (m.P.D.) | INLET PIPE            |           |               | OUTLET PIPE           |           |               |                |                   |
|-------------|--------------|------------------------------|-----------------------|-----------|---------------|-----------------------|-----------|---------------|----------------|-------------------|
|             |              |                              | INVERT LEVEL (m.P.D.) | SIZE (mm) | PIPE MATERIAL | INVERT LEVEL (m.P.D.) | SIZE (mm) | PIPE MATERIAL | TO MANHOLE NO. | TYPE OF BEDDING   |
| FMH001P     | E1           | 7.5                          | -                     | -         | -             | 5.50                  | 200       | PE            | FMH002P        | CLASS B           |
| FMH002P     | F1           | 7.5                          | 5.30                  | 200       | PE            | 4.30                  | 200       | PE            | FMH003P        | CONCRETE SURROUND |
| POR         |              | -                            | 1.90                  | 200       | PE            |                       |           | -             |                |                   |



DC/2020/02

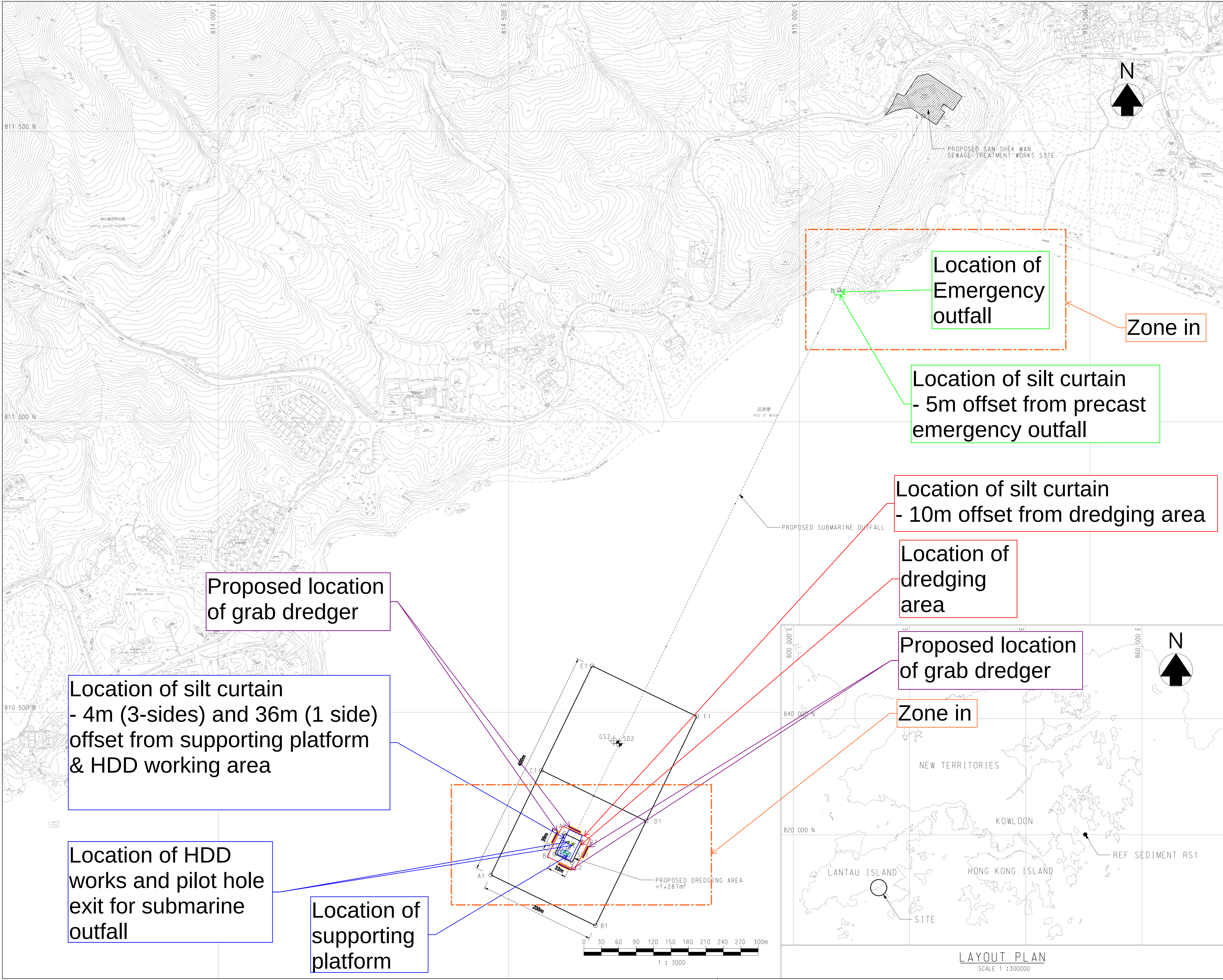
Construction of San Shek Wan Sewage Treatment Works,  
Associated Submarine Outfall and Pui O Sewerage Works  
Silt Curtain Deployment Plan

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Appendix E2 – Site Layout for Marine Works and Silt Curtain

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LEGEND:

- EXITEND OF WORKS AREA
- PROPOSED DREDGING AREA
- SAMPLING GRID
- PROPOSED SUBMARINE OUTFALL
- PROJECT-SPECIFIC DRILLHOLE FOR VERTICAL PROFILE SAMPLING
- PROJECT-SPECIFIC GRAB SAMPLING
- REFERENCE SAMPLE
- CONTROL POINT

PROPOSED SAMPLING LOCATION

| GI STATION | EASTING    | NORTHING   |
|------------|------------|------------|
| SD1        | 814598.288 | 810257.256 |
| SD2        | 814689.837 | 810446.250 |
| GS1        | 814589.288 | 810261.615 |
| GS2        | 814680.838 | 810450.609 |

PROPOSED SUBMARINE OUTFALL

| GI STATION | EASTING    | NORTHING   |
|------------|------------|------------|
| A          | 815213.020 | 811526.299 |
| B          | 815068.054 | 811227.033 |
| C          | 814602.647 | 810266.256 |

PROPOSED DREDGING AREA

| GI STATION | EASTING    | NORTHING   |
|------------|------------|------------|
| A2         | 814596.299 | 810290.998 |
| B2         | 814579.297 | 810255.899 |
| C2         | 814608.996 | 810241.513 |
| D2         | 814625.998 | 810276.612 |

SAMPLING GRID

| GI STATION | EASTING    | NORTHING   |
|------------|------------|------------|
| A1         | 814469.055 | 810219.854 |
| B1         | 814649.049 | 810132.664 |
| C1         | 814556.245 | 810399.848 |
| D1         | 814736.239 | 810312.658 |
| E1         | 814643.436 | 810579.842 |
| F1         | 814823.430 | 810492.652 |

| Revision | Date     | Description | Initial |
|----------|----------|-------------|---------|
|          | Designed | Checked     | Drawn   |
| Initial  | TFL      | BL          | SZ      |
| Date     | 04/20    | 04/20       | 04/20   |
| Approved |          |             |         |

|                |                                                                                                            |
|----------------|------------------------------------------------------------------------------------------------------------|
| Contract no.   | DC/2020/02                                                                                                 |
| Contract title | CONSTRUCTION OF SAN SHEK WAN SEWAGE TREATMENT WORKS, ASSOCIATED SUBMARINE OUTFALL AND PUI O SEWERAGE WORKS |

|               |                                           |
|---------------|-------------------------------------------|
| Drawing title | LOCATION PLAN OF MARINE SEDIMENT SAMPLING |
|---------------|-------------------------------------------|

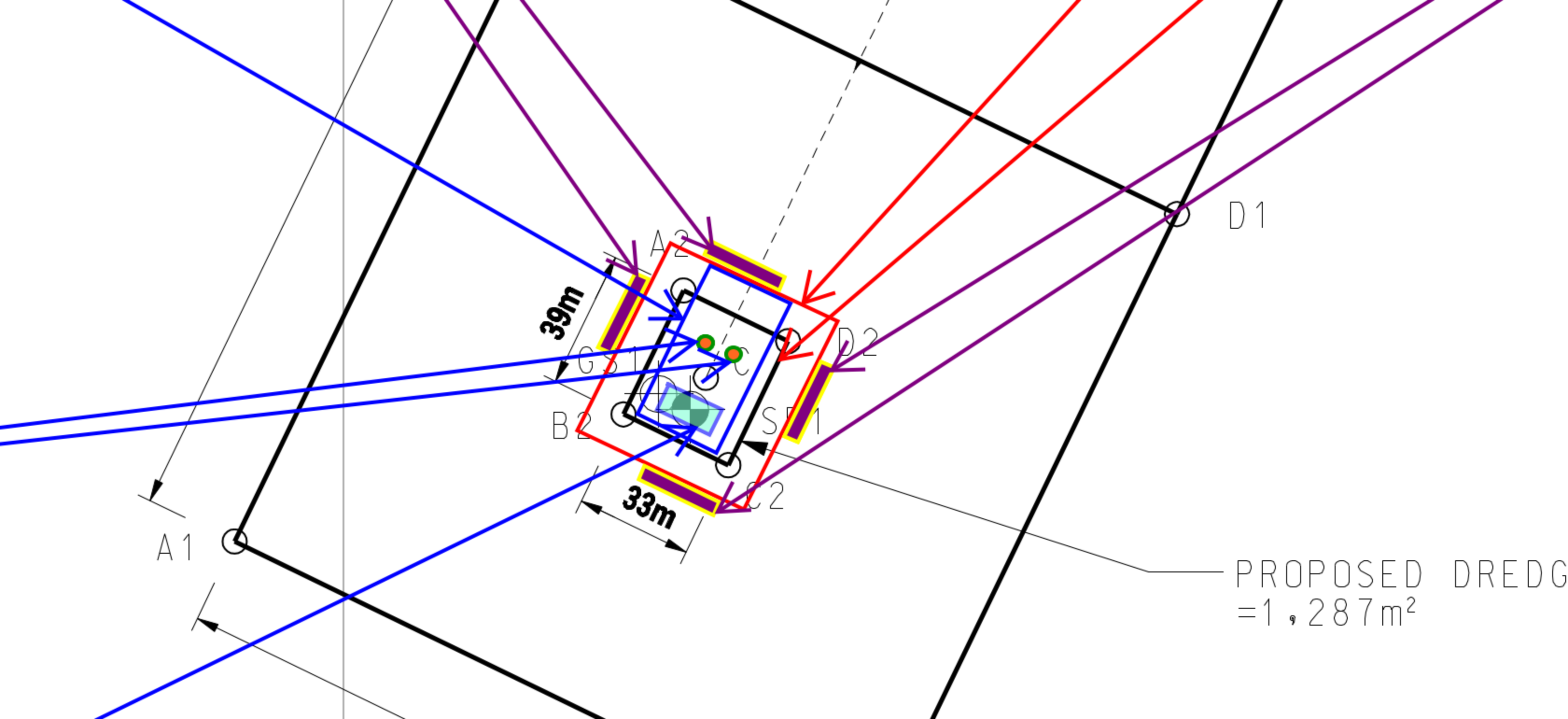
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|-------------|--------------------------|
| Drawing no. | 178711/B&V/SSWSTW/SO/201 |
| Revision    | —                        |

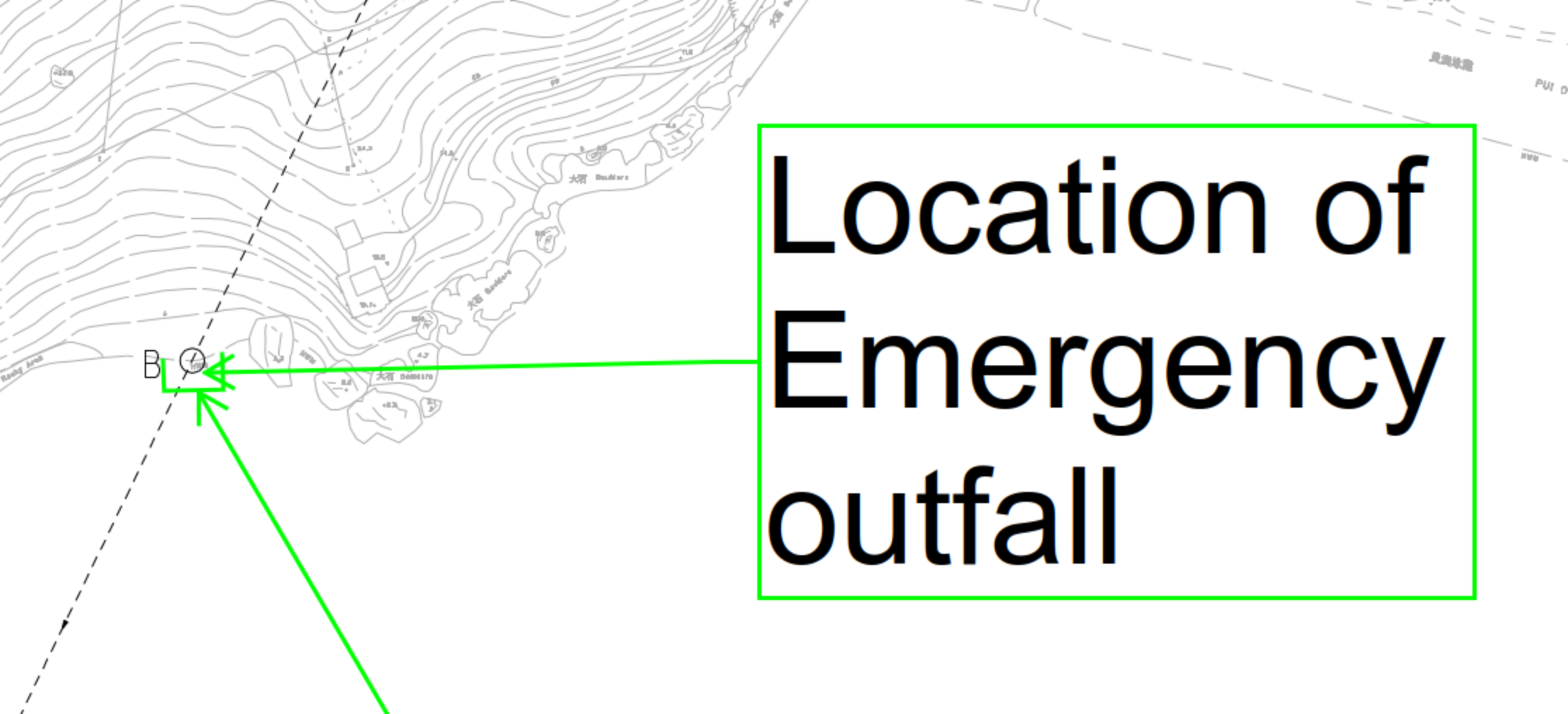
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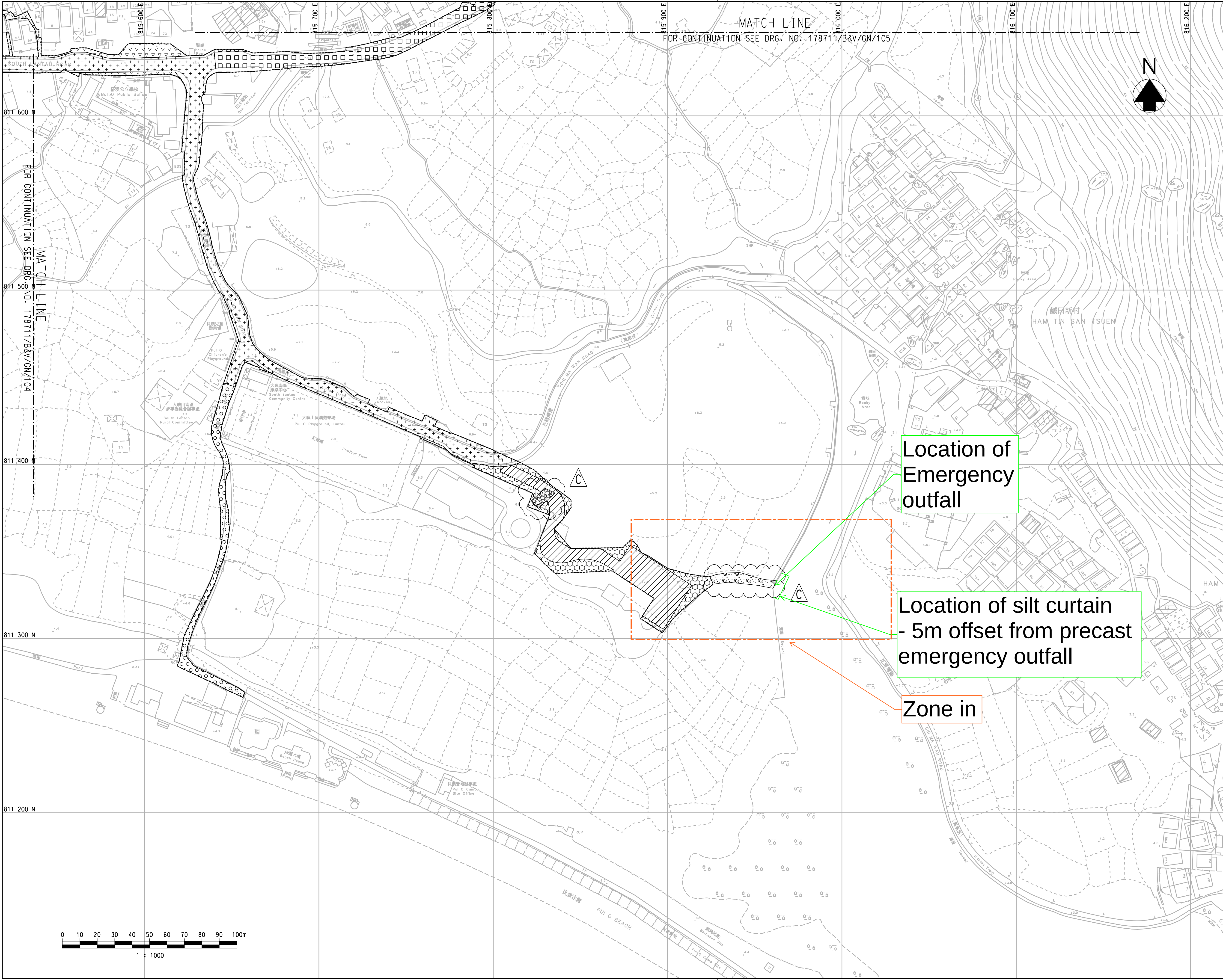




A topographic map showing contour lines and various geographical features. A green box highlights a specific location on the map, marked with a circle and the letter 'B'. A green line with an arrow points from a text box on the right to this location. The text box contains the text 'Location of Emergency outfall'. The map includes labels for 'Rocky Area', '大石 Boulder', and '大石 Boulder'. A dashed line runs diagonally across the map.

Location of  
Emergency  
outfall





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NOTES:

1. FOR GENERAL NOTES, REFER TO 178711/B&V/GN/000.
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
3. ALL LEVELS ARE IN METRES AND REFER TO PRINCIPAL DATUM.
4. FOR THE ACCESS DATE OF EACH PORTION, REFER TO THE CONTRACT DATA PART 1.

LEGENDS:

- WORKS LIMIT
- PORTION A
- PORTION B1
- PORTION B2
- PORTION C1
- PORTION C2
- PORTION D1
- PORTION D2
- PORTION D3
- PORTION D4
- PORTION E1
- PORTION E2
- PORTION E3
- WORKS AREA W1

|          |          |                      |         |
|----------|----------|----------------------|---------|
| C        | 11/20    | TENDER ADDENDUM NO.4 | BL      |
| B        | 10/20    | TENDER ADDENDUM NO.3 | BL      |
| A        | 09/20    | TENDER ADDENDUM NO.2 | BL      |
| Revision | Date     | Description          | Initial |
|          | Designed | Checked              | Drawn   |
| Initial  | TFL      | BL                   | SZ      |
| Date     | 04/20    | 04/20                | 04/20   |
| Approved |          |                      |         |

Contract no. DC/2020/02

Contract title  
CONSTRUCTION OF SAN SHEK WAN SEWAGE TREATMENT WORKS, ASSOCIATED SUBMARINE OUTFALL AND PUI O SEWAGE WORKS

Drawing title  
PORTION OF SITE

|                   |          |
|-------------------|----------|
| Drawing no.       | Revision |
| 178711/B&V/GN/107 | C        |

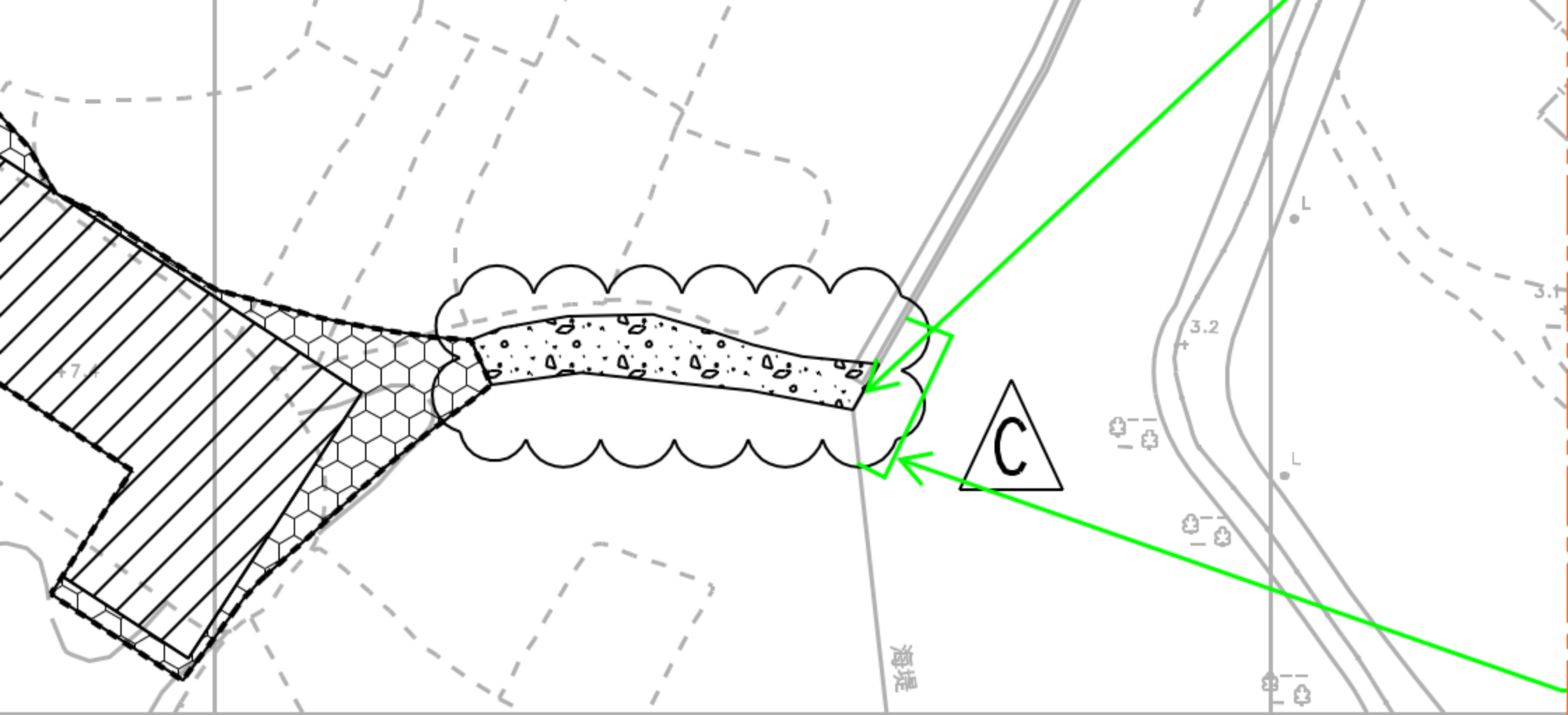
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Plot Date = 11/11/2020





DC/2020/02

Construction of San Shek Wan Sewage Treatment Works,  
Associated Submarine Outfall and Pui O Sewerage Works  
Silt Curtain Deployment Plan

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Appendix F – Implementation Schedule of the Major Environmental Mitigation  
Measures

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## Implementation Schedule of the Major Environmental Mitigation Measures

| SCDP Ref. | Recommended Major Environmental Mitigation Measures                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Objectives of the Recommended Measures & Main Concerns to address | Implementation Party | Location                     | Implementation Stage | Implementation Period                   |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------------|------------------------------|----------------------|-----------------------------------------|
| S2        | <p><u>Silt Curtain Deployment Construction Programme</u></p> <p>There are total 4 stage of works in the overall project:</p> <ol style="list-style-type: none"> <li>1. Marine supporting platform (Stage 1)</li> <li>2. Horizontal Directional Drilling (HDD) (Stage 2)</li> <li>3. Dredging (Stage 3)</li> <li>4. Construction and installation of precast emergency outfall (Stage 4)</li> </ol> <p>Silt curtain will be deployed during whole period of marine works.</p> <p>During the erection of supporting platform and HDD works, No dredging work / dumping of marine sediment for stage 1 and 2. The mud and slurry will be circulated in the drilling procedure and will not be discharged drilling fluid to the sea. There are very few amount of mud and slurry will be dried by mixing the cement and disposed to public fill facilities according to Waste Management Plan.</p> <p>Seabed materials shall dispose from stage 3, dredging work is scheduled to commence in June 2023. The licence of dumping at sea will be apply later.</p> <p>In general, silt curtain will be deployed during whole period of marine works.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Review on the proposed silt curtain                               | Contractor           | Silt curtain deployment zone | Construction Phase   | Whole period of marine works            |
| S3        | <p><u>Silt Curtain Design</u></p> <p>General type silt curtain consists of a layer of geotextile (made by Woven Polyester PET) mounted on the High density Polystyrene float in the water surface and extended to the seabed level secured by steel chain ballast. The silt curtain will surround the relevant working area. The panels can be assembled and connected by rope through a series of grommet and shackles. In between overlap sits the winching rope to adjust curtain depth whenever necessary.</p> <p>The erection of supporting platform are constructed at the sea side for stage 1. The six steel pipe piling will be erected and platform will be constructed. Silt curtain will be deployed four meters away from the platform for 3 sides and approximated thirty-six meters away from the platform in 1 side of supporting platform and HDD. The silt curtain in stage 1 will be keep and will surround the pilot hole exit area to prevent the suspension of sediment during the HDD works for stage 2. Silt curtains will also be deployed during dredging by surrounding for ten meters offset to reduce the elevation of suspended solids to nearby sensitive receivers for stage 3. The current speeds around the dredging location (near outfall) are less than 0.5 m/s. Closed grab dredgers will be used to reduce the potential for leakage of sediments. Moreover, the silt curtain will be deployed by surrounding for five meters away from the construction area of emergency outfall.</p> <p>Sufficient length of geotextile shall be allowed such that the silt curtain can be extended from the water surface to the seabed during high tide condition.</p> | Minimize water quality impacts                                    | Contractor           | Silt curtain deployment zone | Construction Phase   | Before the commencement of marine works |
| S4        | <p><u>Silt Curtain Installation</u></p> <ol style="list-style-type: none"> <li>1. Prepare the geotextile with size suitable for the specific size on the Derrick Lighter or Barge, height of slit curtain is depending on the seabed level measured by hydrographic survey. JV will conduct regular checking and adjustment on the depth of slit curtain toe extension with respect to tidal effect to minimize disturbance of seabed due to sweeping of silt curtain toe bottom on the seabed and maintain its integrity from damage by seabed rocky surface which could induce adverse water quality impact.</li> <li>2. Tie the top end of the geotextile and connected to the float, the bottom end with the steel chain ballast.</li> <li>3. Row up the top part of the silt curtain to the specific length suitable for the lift up distance of the Derrick Lighter.</li> <li>4. Lift down the silt curtain with steel chain ballast into sea and sit on seabed, make sure the bottom part of the silt curtain is surrounding the working area. Fix the silt curtain location by using one tonne tonbag or concrete block anchor.</li> <li>5. Workers with life jacket then tie the geotextile.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Minimize water quality impacts                                    | Contractor           | Silt curtain deployment zone | Construction Phase   | Before the commencement of marine works |



## Implementation Schedule of the Major Environmental Mitigation Measures

| SCDP Ref. | Recommended Major Environmental Mitigation Measures                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Objectives of the Recommended Measures<br>& Main Concerns to address | Implementation Party | Location                     | Implementation Stage | Implementation Period                          |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------|------------------------------|----------------------|------------------------------------------------|
| S5        | <p><u>Silt Curtain Maintenance</u></p> <p>Spot check by JV's on board supervisor will be carried out for each silt curtain before the works every day.</p> <p>JV will also conduct and submit weekly inspection with the Supervisor of client representative throughout the period of marine works to the Project Manager or Supervisor to demonstrate that the silt curtains are in good working conditions.</p> <p>Diver will dive and go under water to inspect the condition of silt curtain. And diver inspection would be carried out once per every three months or if necessary such as after the adverse weather and any unforeseeable condition which might damage the silt curtain physical condition to ensure the bottom of the silt curtain is well placed on the seabed level and no damage of silt curtain under water.</p> <p>Sufficient spare geotextile will be kept on site for replacing of damaged silt curtains. The spare geotextile shall be kept in place to avoid direct contact with water and sunlight.</p> <p>The works will be suspended once damaged geotextile is observed. Spare geotextile will be installed and replace the damaged geotextile.</p> | Minimize water quality impacts                                       | Contractor           | Silt curtain deployment zone | Construction Phase   | During the construction period of marine works |
| S6        | <p><u>Silt Curtain Removal/ Repositioning</u></p> <p>Removal of silt curtain shall be carried out by derrick lighter after completion of marine works in order to reduce negative impact on water quality during the working period of whole period of marine works.</p> <p>Actions upon repositioning of silt curtain will be same as deployment of a new silt curtain. The condition of the silt curtain will be jointly inspected with the Supervisor before relocation to the new position.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Minimize water quality impacts                                       | Contractor           | Silt curtain deployment zone | Construction Phase   | After the completion of all marine works       |