


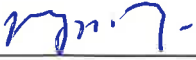
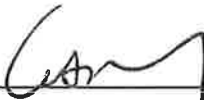



WORKS SCHEDULE AND LAYOUT PLAN

(Clause 2.5, Further Environmental Permit No. FEP-01/429/2012/A)

Document No.

KSZHJV	/	312	/	WS	/	001	/	D
Issuer		Project Code		Type of Document		Sequential No.		Revision Index

	Prepared by:	Approved by:	Certified by:	Verified by:
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Position	Environmental Monitoring Manager (KSZHJV)	Project Manager (KSZHJV)	ETL (Acuity)	IEC (ERM)
Signature				
Date:	21/9/18	21.9.18	21 September 2018	21 September 2018

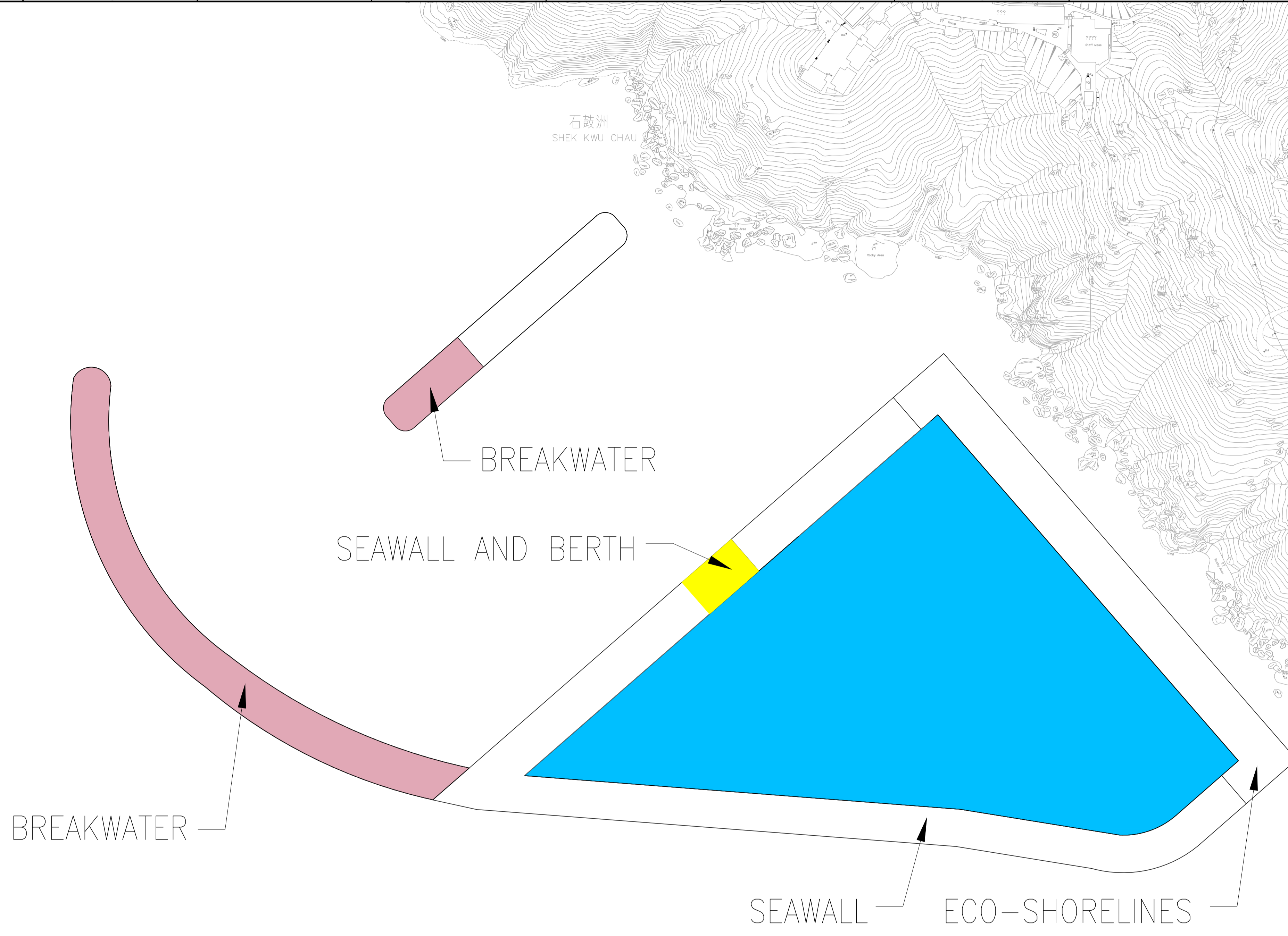
Revision History

D	Revised Construction Sequence	12 September 2018
C	Response to EPD comments on 22 June 2018	18 July 2018
B	Response to IEC's comment on 21 May 2018	21 May 2018
A	First Issue for Comments	18 May 2018
Rev.	DESCRIPTION OF MODIFICATION	DATE

Activity ID	Activity Name	Remaining Duration	Start	Finish	2018												2019												2020												2021												2022												2023												2024												2025											
					N	D	J	F	M	A	M	J	J	A	S	O	N	D	N	D	J	F	M	A	M	J	J	A	S	O	N	D	N	D	J	F	M	A	M	J	J	A	S	O	N	D	N	D	J	F	M	A	M	J	J	A	S	O	N	D	N	D	J	F	M	A	M	J	J	A	S	O	N	D	N	D	J	F	M	A	M	J	J	A	S	O	N	D	N	D	J	F	M	A	M	J	J	A	S	O
EP_SP_66_12-WP-2-M0.09.7	Chimney Foundation	198	23-Jul-21	05-Feb-22																																																																																																
EP_SP_66_12-WP-2-M0.09.8	MT Plant & Desalination Bld Foundation	168	22-Jul-21	05-Jan-22																																																																																																
EP_SP_66_12-WP-2-M0.09.9	IWMF Substation Building Foundation	94	13-May-21	14-Aug-21																																																																																																
EP_SP_66_12-WP-2-M0.09.10	Access Ramp Bld Foundation	133	13-Nov-21	25-Mar-22																																																																																																
EP_SP_66_12-WP-2-M0.09.11	Reception Bld Foundation	49	26-Mar-22	13-May-22																																																																																																
EP_SP_66_12-WP-2-M0.09.12	Pipe Bridge Foundation	397	12-Apr-21	13-May-22																																																																																																
EP_SP_66_12-WP-2-M0.10 Superstructural Works																																																																																																				
EP_SP_66_12-WP-2-M0.10.1	Administration Bld Structure	267	12-Apr-22	03-Jan-23																																																																																																
EP_SP_66_12-WP-2-M0.10.2	Waste Bunker & Tipping Hall Bld Structure	384	12-Aug-21	30-Aug-22																																																																																																
EP_SP_66_12-WP-2-M0.10.3	Boiler & Flue Gas Treatment Bld Structure	441	29-Oct-21	12-Jan-23																																																																																																
EP_SP_66_12-WP-2-M0.10.5	Turbine Hall Bld Structure	262	17-Nov-21	05-Aug-22																																																																																																
EP_SP_66_12-WP-2-M0.10.6	Air Compressor Bld Structure	63	04-May-22	05-Jul-22																																																																																																
EP_SP_66_12-WP-2-M0.10.7	Chimney Structure	145	10-Jul-22	01-Dec-22																																																																																																
EP_SP_66_12-WP-2-M0.10.8	MT Plant & Desalination Bld Structure	196	06-Jan-22	20-Jul-22																																																																																																
EP_SP_66_12-WP-2-M0.10.9	IWMF Substation Structure	84	15-Aug-21	06-Nov-21																																																																																																
EP_SP_66_12-WP-2-M0.10.10	Access Ramp Bld Structure	135	26-Mar-22	07-Aug-22																																																																																																
EP_SP_66_12-WP-2-M0.10.11	Reception Bld Structure	150	14-May-22	10-Oct-22																																																																																																
EP_SP_66_12-WP-2-M0.10.13	Pipe Bridge Structure	180	06-Jul-22	01-Jan-23																																																																																																
EP_SP_66_12-WP-2-M0.11 Architectual Builders Works & Finishes																																																																																																				
EP_SP_66_12-WP-2-M0.11.1	Administration Bld ABWF Works	180	04-Jan-23	02-Jul-23																																																																																																
EP_SP_66_12-WP-2-M0.11.2	Weste Bunker & Tipping Hall Bld ABWF Works	225	21-Jul-22	02-Mar-23																																																																																																
EP_SP_66_12-WP-2-M0.11.3	Boiler & Flue Gas Bld ABWF Works	240	13-Jan-23	09-Sep-23																																																																																																
EP_SP_66_12-WP-2-M0.11.5	Turbine Hall Bld ABWF Works	299	23-Mar-22	15-Jan-23																																																																																																
EP_SP_66_12-WP-2-M0.11.6	Air Compress Bld ABWF Works	105	03-Aug-22	15-Nov-22																																																																																																
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EP_SP_66_12-WP-2-M0.11.8	MT Plant & Desalination Bld ABWF Works	165	28-Jul-22	08-Jan-23																																																																																																
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EP_SP_66_12-WP-2-M0.11.11	Reception Bld ABWF Works	135	11-Oct-22	22-Feb-23																																																																																																
EP_SP_66_12-WP-2-M0.12 Building Services Installation																																																																																																				
EP_SP_66_12-WP-2-M0.12.1	Administration Bld BS Works	180	03-Feb-23	01-Aug-23																																																																																																
EP_SP_66_12-WP-2-M0.12.2	Weste Bunker & Tipping Hall Bld BS Works	210	04-Oct-22	01-May-23																																																																																																
EP_SP_66_12-WP-2-M0.12.3	Boiler & Flue Gas Bld BS Works	210	29-Dec-22	26-Jul-23																																																																																																
EP_SP_66_12-WP-2-M0.12.5	Turbine Hall Bld BS Works	344	07-Apr-22	16-Mar-23																																																																																																
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EP_SP_66_12-WP-2-M0.12.4	Chimney BS Works	210	15-Feb-23	12-Sep-23																																																																																																
EP_SP_66_12-WP-2-M0.12.8	MT Plant & Desalination Bld BS Works	180	11-Oct-22	08-Apr-23																																																																																																
EP_SP_66_12-WP-2-M0.12.9	IWMF Substation BS Works	241	09-Feb-22	07-Oct-22																																																																																																
EP_SP_66_12-WP-2-M0.12.10	Access Ramp Bld BS Works	180	19-Nov-22	17-May-23																																																																																																
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EP_SP_66_12-WP-2-M0.13 Process Equipment Installation																																																																																																				
EP_SP_66_12-WP-2-M0.13.2	Waste Bunker & Tipping Hall Bld Process Equipment Installation	233	01-Aug-22	21-Mar-23																																																																																																
EP_SP_66_12-WP-2-M0.13.3	Boiler House & Flue Gas Treatment Bld Process Equipment Installation	539	28-Dec-21	19-Jun-23																																																																																																
EP_SP_66_12-WP-2-M0.13.4	ACC Area Equipment Installation	375	23-Apr-22	02-May-23																																																																																																
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EP_SP_66_12-WP-2-M0.13.6	Air Compressor Bld Equipment Installation	150	17-Sep-22	13-Feb-23																																																																																																
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EP_SP_66_12-WP-2-M0.13.12	Equipment Installaion at External Area	240	15-Sep-22	12-May-23																																																																																																
EP_SP_66_12-WP-2-M0.13.13	External Process Pipe Works	271	03-Oct-22	30-Jun-23																																																																																																
EP_SP_66_12-WP-2-M0.14 Landscape, External Road and Drains Works																																																																																																				
EP_SP_66_12-WP-2-M0.15	Works By CLP	633	04-Feb-22	30-Oct-23																																																																																																
EP_SP_66_12-WP-2-M0.16 Testing & Commissioning																																																																																																				
EP_SP_66_12-WP-2-M0.16																																																																																																				

Programme for Design and Construction Works Summary Programme

Date	Revision	Checked	Approved
04-Dec-17	Rev.0 - 1st Issue		
16-Jul-18	Rev.1 - Revised to SO's comments		
03-Sep-18	Rev.2 - Revised to SO's comments		



石鼓洲
SHEK KWU CHAU

BREAKWATER

SEAWALL AND BERTH

BREAKWATER

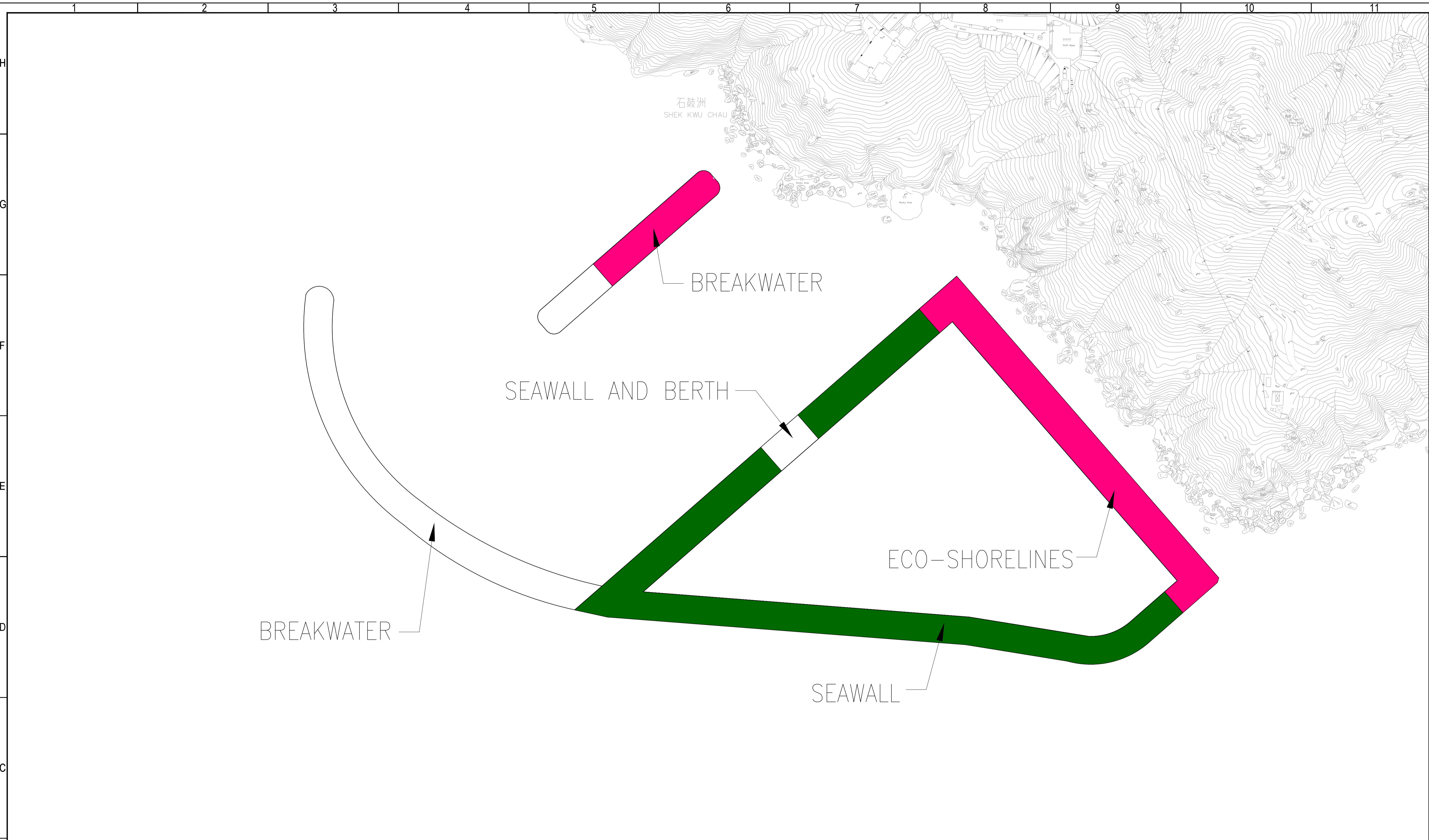
SEAWALL

ECO-SHORELINES

LEGEND

- WORK PERIOD FOR RECLAMATION ON 03 OCT 2018 TO 27 JUN 2021.
- WORK PERIOD FOR BREAKWATER ON 02 SEP 2019 TO 06 APR 2021.
- WORK PERIOD FOR SEAWALL AND BERTH AT MARINE ACCESS ON 03 JUL 2020 TO 29 NOV 2020.

No.	Date	Drawn by	Checked by	Approved by	
Remarks					
Employer					
環境保護署 Environmental Protection Department					
Supervising Officer					
Main Contractor					
 吉寶西格斯-振華聯營公司 KEPPEL SEGHERS - ZHEN HUA JOINT VENTURE					
Designers					
Certification					
Project Name					
Contract No. EP/SP/66/12 Integrated Waste Management Facilities Phase 1					
Design Package					
Drawing Title					
PHASE II -RECLAMATION BREAKWATER AND BERTH CONSTRUCTION					
Drawing Number					Revision
PHASE 1					-
Date	12 SEP 2018	Scale (at A1)	Format		A1
Drawn by	SP	AS SHOWN	Status		PRE
Checked by	CYP	Status		PRE	
Approved by	TONY L	Status			



LEGEND

- WORK PERIOD FOR SEAWALL AND BERTH AT DCM AREA ON 29 JUN 2018 TO 19 JAN 2020.
- WORK PERIOD FOR SEAWALL AT DREDGING AREA ON 25 DEC 2018 TO 15 OCT 2019.

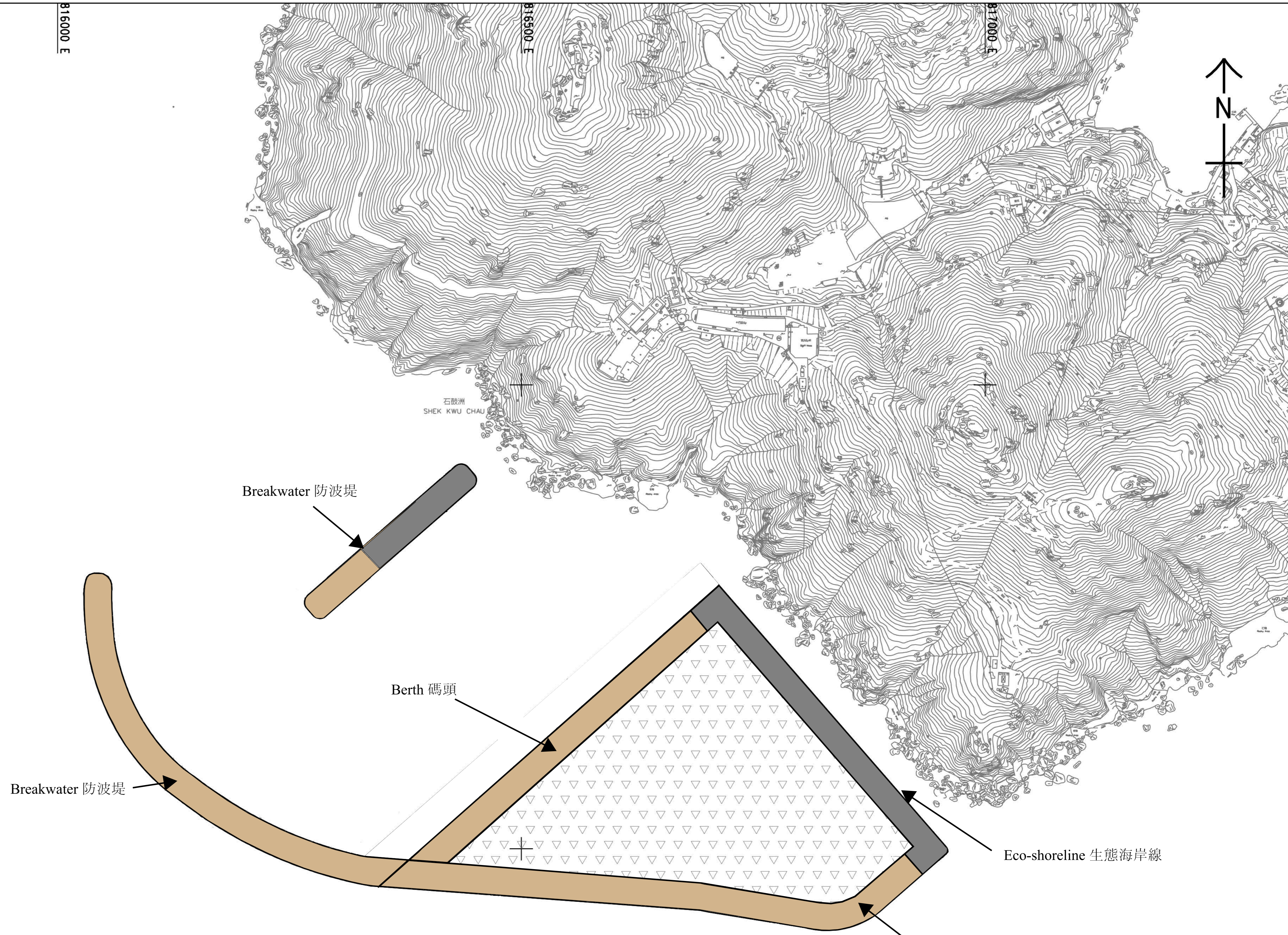
No.	Date	Drawn by	Checked by	Approved by
Remarks				
Employer				
環境保護署 Environmental Protection Department				
Supervising Officer				
Main Contractor				
 吉寶西格斯-振華聯營公司 KEPPEL SEGHERS - ZHEN HUA JOINT VENTURE				
Designers				
Certification				
Project Name				
Contract No. EP/SP/66/12 Integrated Waste Management Facilities Phase 1				
Design Package				
Drawing Title				
PHASE I-CONSRTUCTION OF PERIMETER SEAWALLS				
Drawing Number				Revision
PHASE 2				-
Date	12 SEP 2018	Scale (at A1)	Format	
Drawn by	SP	AS SHOWN	A1	
Checked by	CYP	Status		PRE
Approved by	TONY L			

ARTIFICIAL ISLAND

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LEGEND



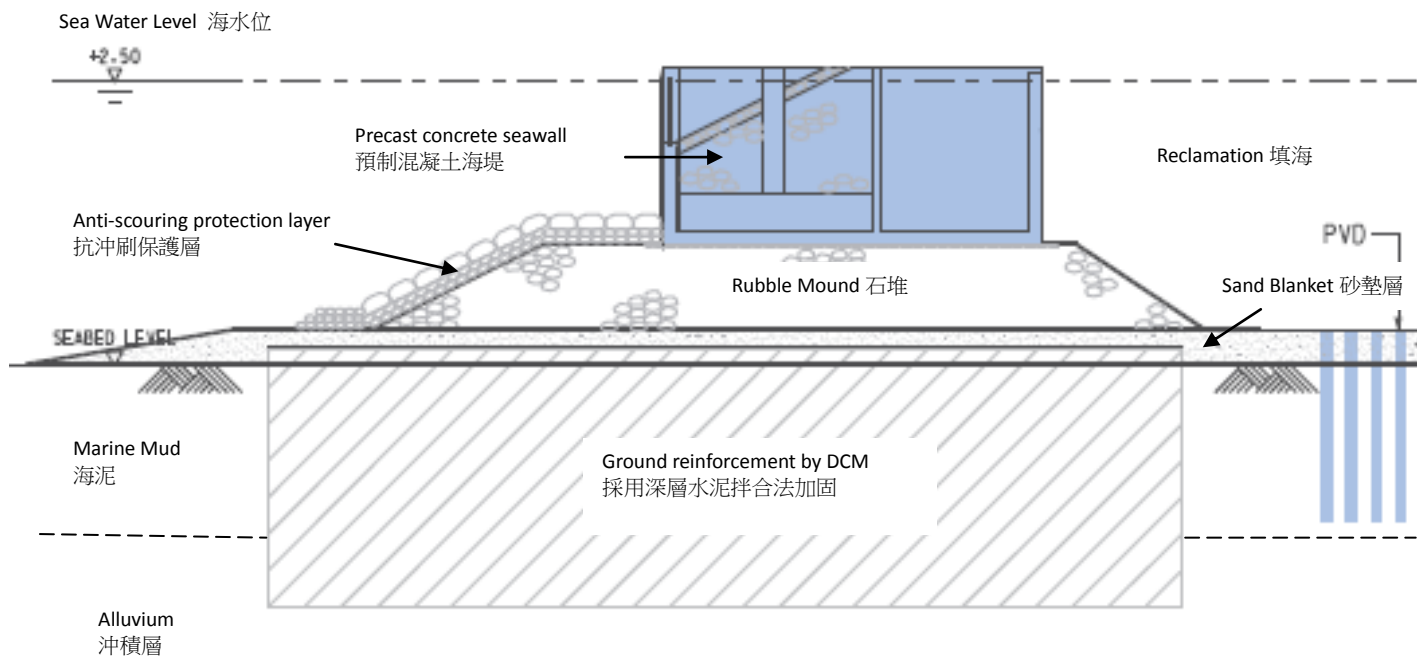
Precast Concrete Seawall and Breakwater 預制混凝土海堤及防波堤



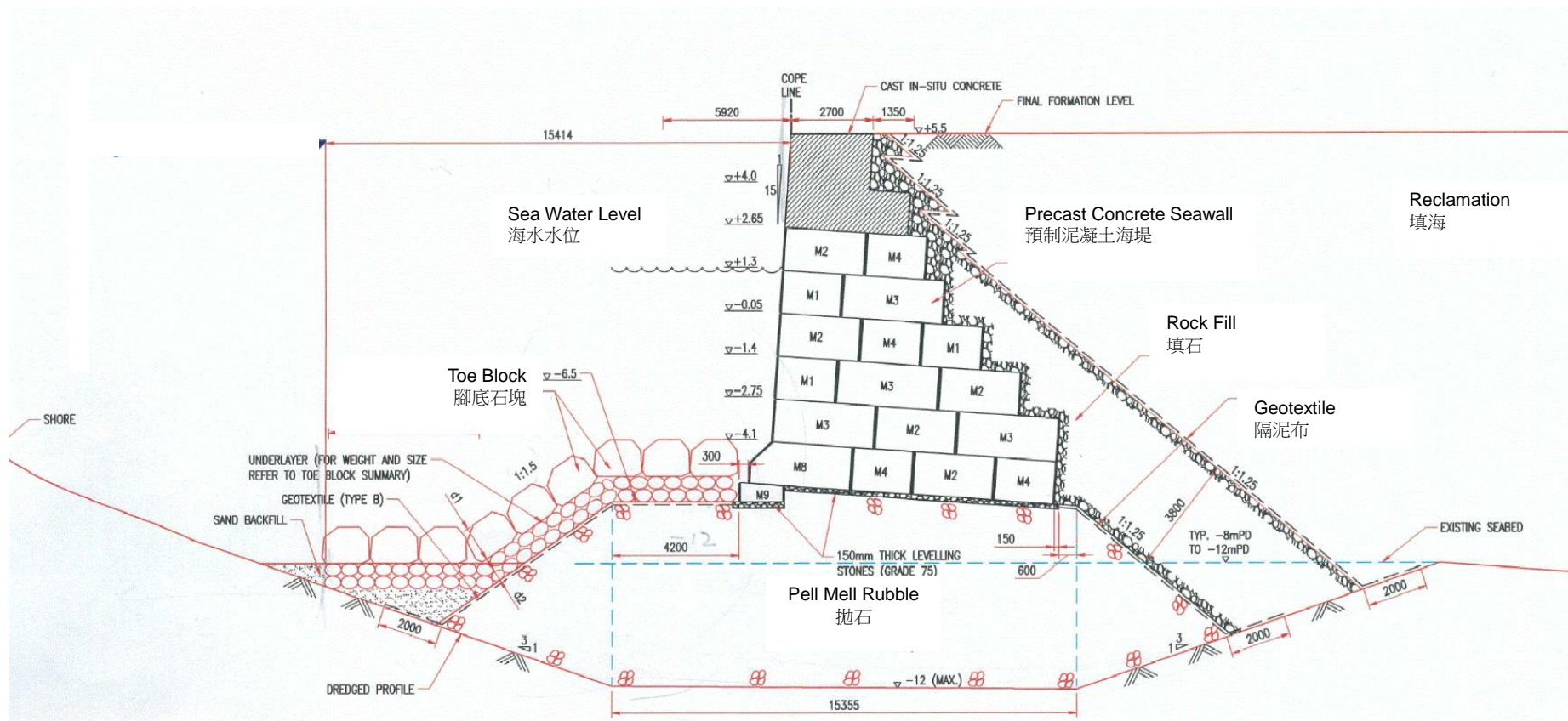
Precast Concrete Seawall and Breakwater with DCM Ground Reinforcement 採用深層水泥拌合法加固的預制混凝土海堤及防波堤

Location Plan for Precast Concrete Seawall with DCM Ground Reinforcement, Precast Concrete Seawall and Eco-shoreline

STATUS		CLIENT	ORIGINATOR	DESIGNER	DESIGN CHECKER	PROJECT	TITLE
DESIGNED	CHECKED	<p>環境保護署 Environmental Protection Department</p>	<p>Keppel Seghers – Zhen Hua Joint Venture</p>	<p>ARCADIS Design & Consultancy for natural and built assets</p> <p>DLN</p>	<p>SMC Member of the Surbana Jurong Group</p>	<p>Contract EP/SP/66/12 Integrated Waste Management Facilities Phase 1</p>	<p>Works Schedule and Layout Plan</p>
DRAWN	DATED						
APPROVED	© COPYRIGHT RESERVED						
						SCALE @ A1 1:2500 1:5000	DRAWING NO. ENV-001
							REV. -



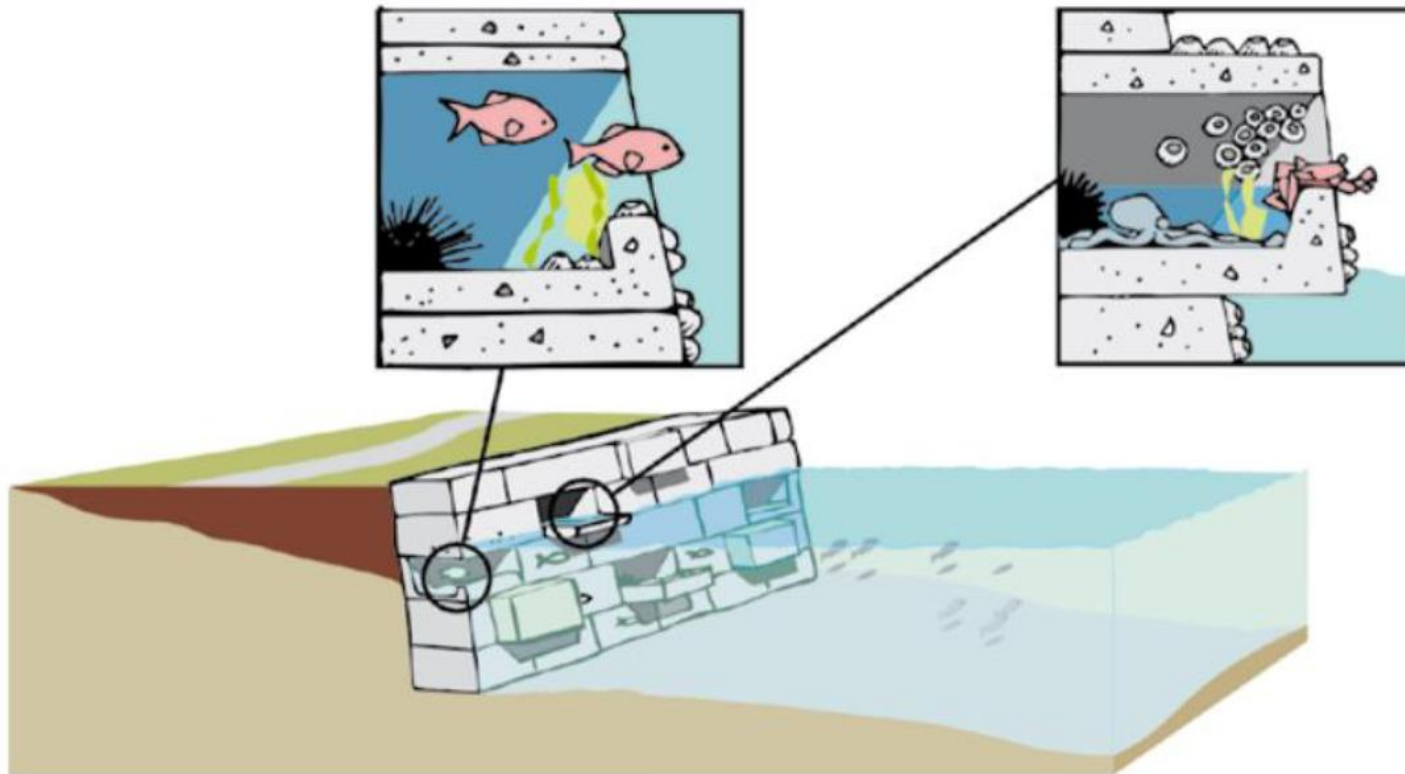
With Deep Cement Mixing (DCM) Ground Reinforcement
採用深層水泥拌合法加固



Without Deep Cement Mixing (DCM) Ground Reinforcement
 未有採用深層水泥拌合法加固

Recommended Dimension of BioBlock at Eco-shoreline

Parameters	Horizontal Crevices
Diameter / Surface Area	5x100cm
Depth	5cm
Density	20 crevices per 100m of seawall



Tentative Ecological Enhancement Design Features for Eco-shoreline

(Extracted from Figure 3.5 of Approved Fisheries Enhancement Programme of VEP No. FEP-01/429/2012/A)