

Your Ref : (11)inEP2/H4/S3/15Pt.23 Our Ref. : 1101/03.09.00.00/1483L

Date : 28 January 2013

The EIA Ordinance Register Office 27th floor, Southern Centre, 130 Hennessy Road Wan Chai, Hong Kong

Dear Sir / Madam,

Gammon - Leader Joint Venture

28/F Devon House

TaiKoo Place, 979 King's Road PO Box 9711 GPO Hong Kong

Tel (852) 2516 8823 Fax (852) 2516 6260

Site Tel (852) 2529 2068 Site Fax (852) 2529 2880

By Hand

Contract No. HK/2010/06 Wan Chai Development Phase II-Central- Wan Chai Bypass over MTR Tsuen Wan Line Silt Curtain Deployment Plan for FEP-05/356/2009

The captioned referenced letter refers.

Pursuant to Condition 2.8 of Part C of captioned FEP, we herewith enclose the <u>4 copies plus one</u> <u>electronic copy</u> of the revised Silt Curtain Deployment Plan, which is certified by ET and verified by IEC, for your record.

Should you have any queries regarding this issue, please feel free to contact our Environmental Officer Mr. W. M. Lee at 9481 6024 or our Environmental Supervisor Clement Pang at 9735 9200.

Thank you for your kind attention.

Yours faithfully, For and on behalf of Gammon-Leader Joint Venture

Keith Tse Site Agent

KT/WML

Encl

cc AECOM (Site Office & Head Office)
CEDD - Attn: Mr. Patrick S.K. Keung, Senior Engineer
Gammon - Site Office- Attn: C.L. Lee

Lam (ET)- Mr. Raymond Dai Environ (IEC)- Mr. David Yeung by hand

by email pkeung@cedd.gov.hk

by email

<u>Chileung.lee@gammonconstruction.com</u> by email: <u>raymonddai@lamenviro.com</u>

by email scflam@environcorp.com

ENVIRON

Ref.: AACWBIECEM00_0_3574L.13

21 January 2013

By Fax (2516 6260) & Post

Gammon – Leader Joint Venture 28/F, Devon House Taikoo Place 979 King's Road Hong Kong

Attention: Mr. Keith Tse

Dear Sir,

Re: FEP-05/356/2009

Contract No. HK/2010/06

Wan Chai Development Phase II - Central-Wan Chai Bypass over MTR

Tsuen Wan Line

Silt Curtain Deployment Plan (Rev. 7)

Reference is made to Gammon-Leader Joint Venture's submission of Silt Curtain Deployment Plan (Rev. 7) for the captioned through letter (letter ref. 1101/03.09.00.00/1464L dated 18 January 2013) for our review and comment.

Please be informed that we have no adverse comment on the captioned submission. We write to verify the captioned submission in accordance with Condition 2.8 of FEP-05/356/2009.

Yours sincerely,

David Yeung

Independent Environmental Checker

c.c.

www.environcorp.com

CEDD

Mr. Patrick Keung

by fax: 2577 5040

AECOM

Mr. Frankie Fan (PRE)

by fax: 2587 1877

AECOM

Mr. Kelvin Cheng

by fax: 2691 2649

LAM

Mr. Raymond Dai

by fax: 2882 3331

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Lam Geotechnics Limited

Ground Investigation & Instrumentation Professionals

Ref

: G1120/CS/L365/FEP-05/356/2009

Date

23 January 2013

Gammon Leader Joint Venture 28/F Devon House Taikoo Place, 979 King's Road, Quarry Bay, Hong Kong

Attn: Mr. Keith Tse, Site Agent

Dear Sir,

Contract No. HK/2010/06
Wanchai Development Phase II - Central -- Wan Chai Bypass over MTR Tsuen Wan Line

Silt Curtain Deployment Plan (Rev. 7)

Referring to the captioned submission dated on 18 January 2013 received by mail on 21 Jan 2013, we have reviewed your submitted details and hereby certified this submission in accordance with Condition 2.8 of FEP-05/356/2009.

Should you have any enquiry, please feel free to contact the undersigned at 2839 5666.

Yours faithfully,

Raymond Dai

Environmental Team Leader

C.C.

CEDD

- Mr. Patrick Keung

(By Fax: 2577 5040)

AECOM

- Mr. Frankie Fan

(By Fax: 2587 1877)

ENVIRON

- Mr. David Yeung

(By Fax: 3548 6988)







11/F, Centre Point, 181-185 Gloucester Road, Wanchai, Hong Kong Tel: (852) 2882-3939 Fax: (852) 2882-3331 Website: www.lamgeo.com Email; info@lamgeo.com



Wan Chai Development Phase II – Central-Wan Chai Bypass over MTR Tsuen Wan Line Contract No.: HK/2010/06

Silt Curtain Deployment Plan

Rev.	Date of Issue	Remarks	Author	Approved
0	28 FEB 11	Initial issue	JY	KMB
1	08 Mar 11	Amendment for ET IEC comments	WML	KMB
2	10 Mar 11	General Amendment	WML	KMB
3	30 Mar 11	Revision in Sec.2, 6 & Appendix A	WML	KMB
4	4 Aug 11	Revision in Sec 6b	WML	KMB
5	20 Sept 12	Revision in Sec. 2, Sec 4.2 and 6c Revision in TWK/SK/M051& M072	CP/WML	KT
6	18 Oct 12	For ET, IEC Approval	CP/WML	KT
7	18 Jan 13	Revision in Sec 1, Appendix A, C	CP/WML	KT

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- 3 Use of Material
- 4 Silt Curtain Installation Methodology
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- 6 Inspection and Rectification Works

Appendix

- A Layout of Silt Curtain
- **B** Material Catalogue of Silt Curtain
- C Programme for the Deployment of the Silt Curtain



1. Introduction

This submission outline the method and the layout to deploy silt curtain for the Marine Works of HK/2010/06 Wan Chai Development Phase II – Central-Wan Chai Bypass over MTR Tsuen Wan Line.

With reference to the Condition 2.8 of Part C of FEP-05/356/2009, silt curtains shall be deployed around seawall dredging and seawall trench filling in reclamation shorelines zones. A Silt Curtain Deployment Plan shall be submitted to the Director of the Environmental Protection at least two weeks prior to the commencement of marine works showing the detail on the design, operation and maintenance requirements.

The installation, maintenance, repairing (in case of damage) and removal of silt curtain shall be responsible by FEP -05/356/2009 holder, Gammon Leader Joint Venture.

2. Area of Application

Silt curtain shall be provided during the dredging work and excavation for bored pile which may affect the water quality within the site. To limit pollution of water, woven geotextile shall be used as silt curtain system that is sustained by floating foam and in such a way that tidal rise and fall is accommodated.

Two types of silt curtain will be deployed:

- 1. Frame type silt curtain for to closely protect closed grab dredging
- General type silt curtain to surround the dredging area, bored pile excavation area and silt screen for water intakes.

In dredging stage, one frame type silt curtain will be deployed to closely protect the closed grab dredging.

One general type silt curtain will be deployed to enclose the dredging area for protection of the transfer route between the grab frame and pontoon. The pontoon with bunker will be moored along the dredger and the silt curtains. Part of the silt curtain may be installed in site area of contract HK/2009/01, so liaison will be made with the contractor of HK/2009/01 for the implementation of silt curtains. Dredged materials in the bunker will then be transferred to the hopper



barge via the crane of a derrick lighter. Tarpaulin sheeting will be installed when necessary between the hopper barge, derrick barge and pontoon to prevent marine deposit from dropping into the sea.

In bored pile stage, the excavation will be carried out inside steel permanent casing. In additional, one general type silt curtain will be deployed to enclose the excavation area to protect the transfer of sediment from the grab to the hopper barge.

The layout plans and details for deployment for silt curtains during different stages and its general arrangement is attached in Appendix A. To suit the site condition with reference to the tidal range, the silt curtain would be extended to as close to the seabed level as practicable.

3. Use of Material

Bonar SG110/110 woven geotextile, manufactured by BONTEC, is proposed as the silt curtain system for this project. Catalogue of the material is attached in Appendix B. BONTEC is operated in accordance with an ISO 9001:2000 quality assurance system and ISO 14001 environmental management system to provide a good quality product. The Bonar geotextile is widely used in recent port works construction such as CV/2003/06 – Stanley waterfront improvement project, CV/2004/02 – Reconstruction of Wong Shek and Ko Lau Wan public pier project, CV/2002/04 – Penny's Bay Reclamation Stage 2 and HK12/02 – CED, Central Reclamation Phase III, Engineering Works (Please refer to Appendix B). The properties of Bonar geotextile are satisfactory and fulfill the requirement as stipulated in particular specification. Visual inspection of the silt screen shall be carried in a daily basis.

According to the "Assessment and Remediation of Contaminated Sediments Program" of United States Environmental Protection Agency, silt curtain have been used at many locations with varying degrees of success. For example, silt curtain with impervious materials were found to be ineffective during a demonstration in other project primarily as a result of wind, current and tidal fluctuation. Moreover, we have demonstrated in many projects as listed above, the successful conclusion in the deployment of the material "Bonar SG110/110" woven geotextile.

According to the Environmental Monitoring and Auditing Manual, regularly water monitoring of water quality shall be carried out by Environmental Team in



order to complies statutory regulation and maintain quality of water during the construction activities being undertaken.

4. Silt Curtain Installation Methodology

4.1 General Type Silt Curtain

- a. Link up 300mm buoys together by a net
- b. Tie the top end of the geotextile to the buoys net and the bottom end with steel chain ballast before transportation
- c. Transport the silt curtain to the location for fixing via a marine pontoon.
- d. Workers tie the buoy to nearby existing structures with nylon ropes.
- e. Put the buoys to the water and then slowly put the geotextile with the steel chain ballast into sea.
- f. In order to maintain the position of the silt curtain especially at the locations with strong current, place concrete sinkers to the seabed if required and tie the silt curtain to the sinkers with nylons strings by divers.

4.2 Frame Type Silt Curtain

- a. Prefabricate a 15m x 12m rectangular shape floating steel frame using 400mm diameter x 8mm thick steel circular hollow sections. Details as per drawing TWK/SK/M010 (A).
- b. Tie the top end of the geotextile to the steel frame by nylon strings/ steel wires.
- c. Tie the bottom end of the geotextile with ballast steel chain. This arrangement shall maintain the geotextile in vertical position during the course of the dredging.
- d. Place and unfold the silt curtain to the sea by grab dredger. Fix the floating steel frame alongside the grab dredger with a movement joint. Slowly put the geotextile together with the ballast steel chain to the sea.
- e. The frame shall enclose the dredged area to ensure water quality impact is minimized.
- f. Prepare different length of the geotextile for replacement in order to suit the various existing seabed level.

5. Silt Curtain Removal

After completion of the marine works, the silt curtain shall be removed as elaborated as follows:

- a. Prior to decommission of silt curtain, make sure all marine works or works affecting the seawall shall be completed, and also the water quality shall be checked to ensure no dispersion of muddy water outside the works area.
- b. Loosen the fixing wire of the silt curtain from the concrete block and remove the silt curtain by motor boat for general type silt curtain or crane for frame type silt curtain.
- c. Lifting the concrete block slightly by diver team and crane boat in order to minimize the disturbance of seabed causing mud wave.

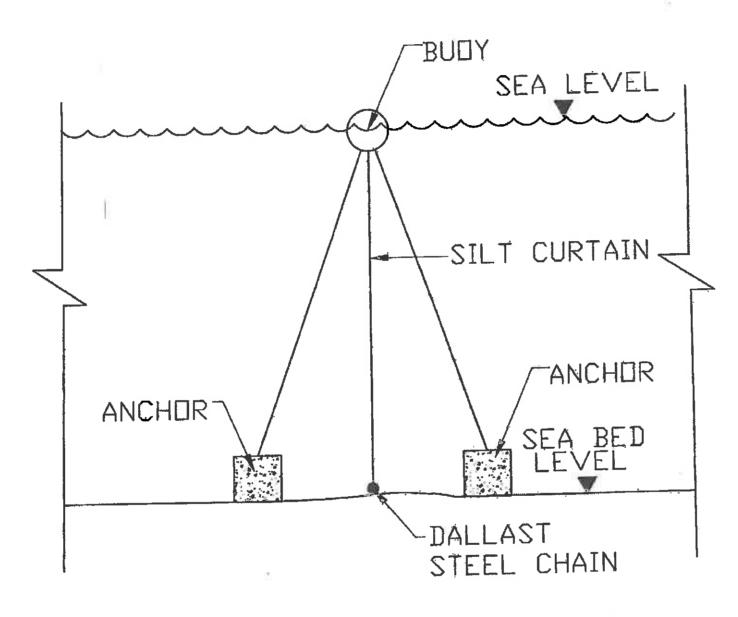


6. Inspection and Rectification Works

- a. Diver inspection shall be carried out to inspect the installation and decommission of silt curtain to ensure proper installation and functioning of the silt curtain according to the design drawing.
- b. During the entire construction period, visual inspection and regular diver inspection shall be carried out to ensure no muddy water passing through the silt curtain system and maintain proper functioning of the silt curtain. Visual inspection for the silt curtain shall be carried out daily. When damaging is suspected in daily inspection, diver inspection would be undertaken in order to ensure the performance of the silt curtain is effective and efficient. If the silt curtain is damaged and repairing works are identified, the dredging work within 50m from the location of damage will be temporarily suspended. The silt curtain will then be lift up by grab dredger/derrick barge. A new piece of geotextile with sufficient overlapping length (1m) will be attached to the existing silt curtain. If the extent of the damaged is large and silt curtain cannot be lifted up without causing further damage, a new layer of silt curtain will be installed from sea level to seabed and covered the damaged location on two sides for minimum 5m. The dredging works will resume after repairing of the damaged silt curtains.
- c. The Environmental Officer or Environmental Supervisor shall supervise the entire installation and decommissioning processes. He shall also closely monitor the effectiveness of the silt curtain and report any irregularities which may affect its proper functioning so as to trigger early rectification by the Contractor.
- d. In case of any malfunction of the silt curtain, diver inspection shall be carried out to check whether there is any damage or defect of the silt curtain and the situation will be immediately reported to the Environmental Team. Once the damage or defect is found, the rectification works shall be carried out to maintain well-function of silt curtain under the supervision of Environmental Officer or Environmental Supervisor.
- e. 20 linear meter additional geotextile will be ready for use and keep on site for emergency replacement in case damage or defect is observed of the silt curtain.

Appendix A

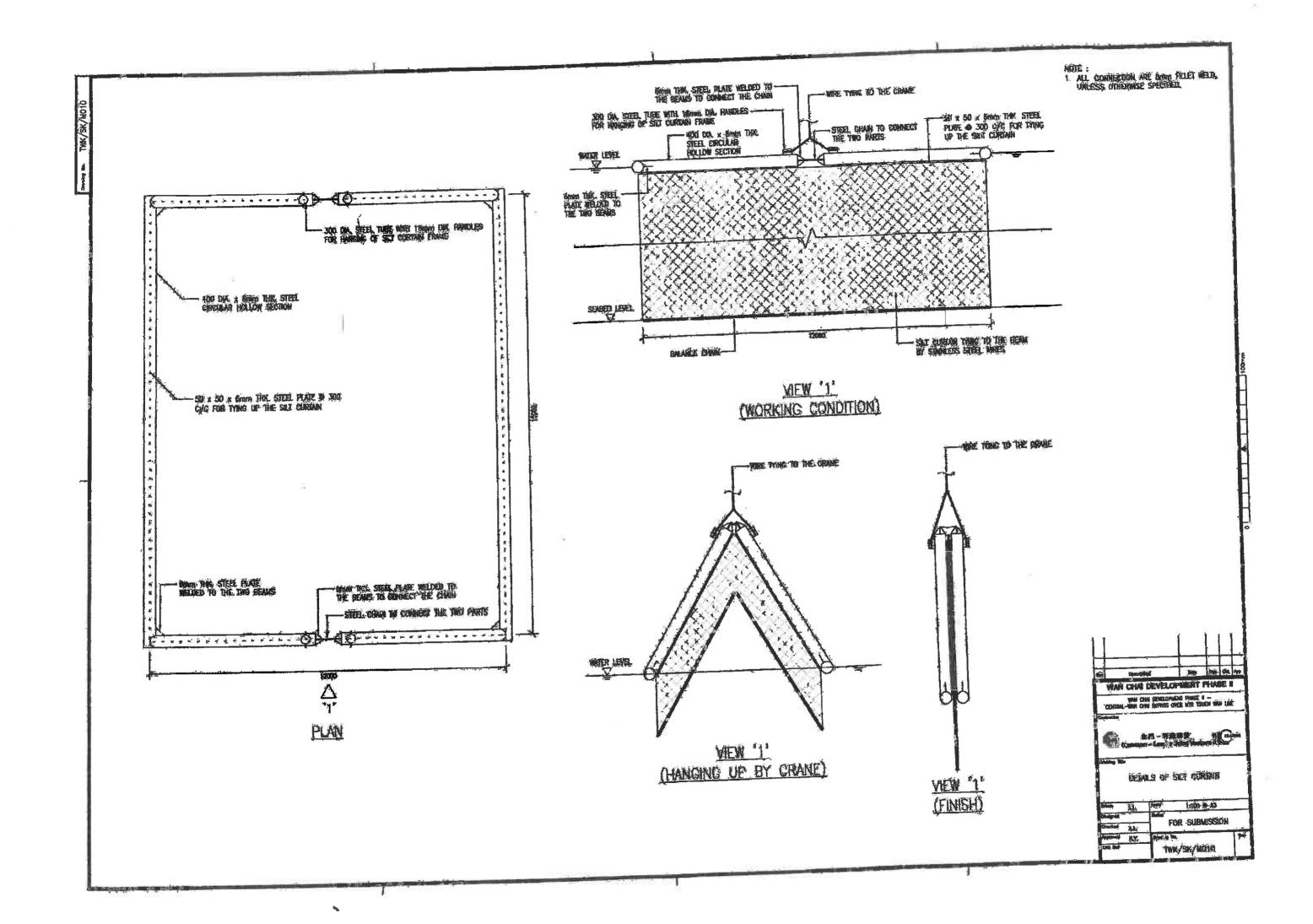
Details of Silt Curtain System

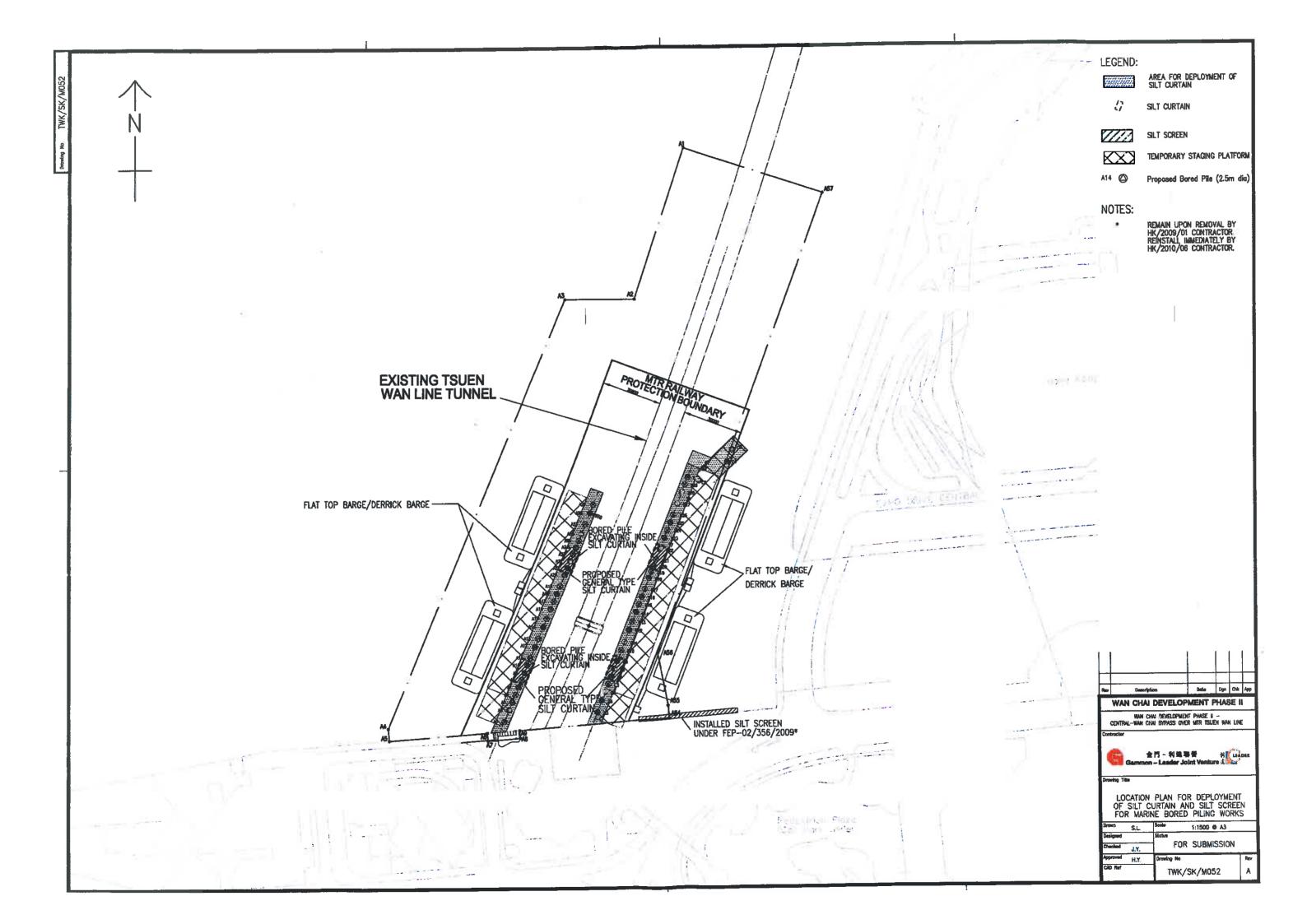


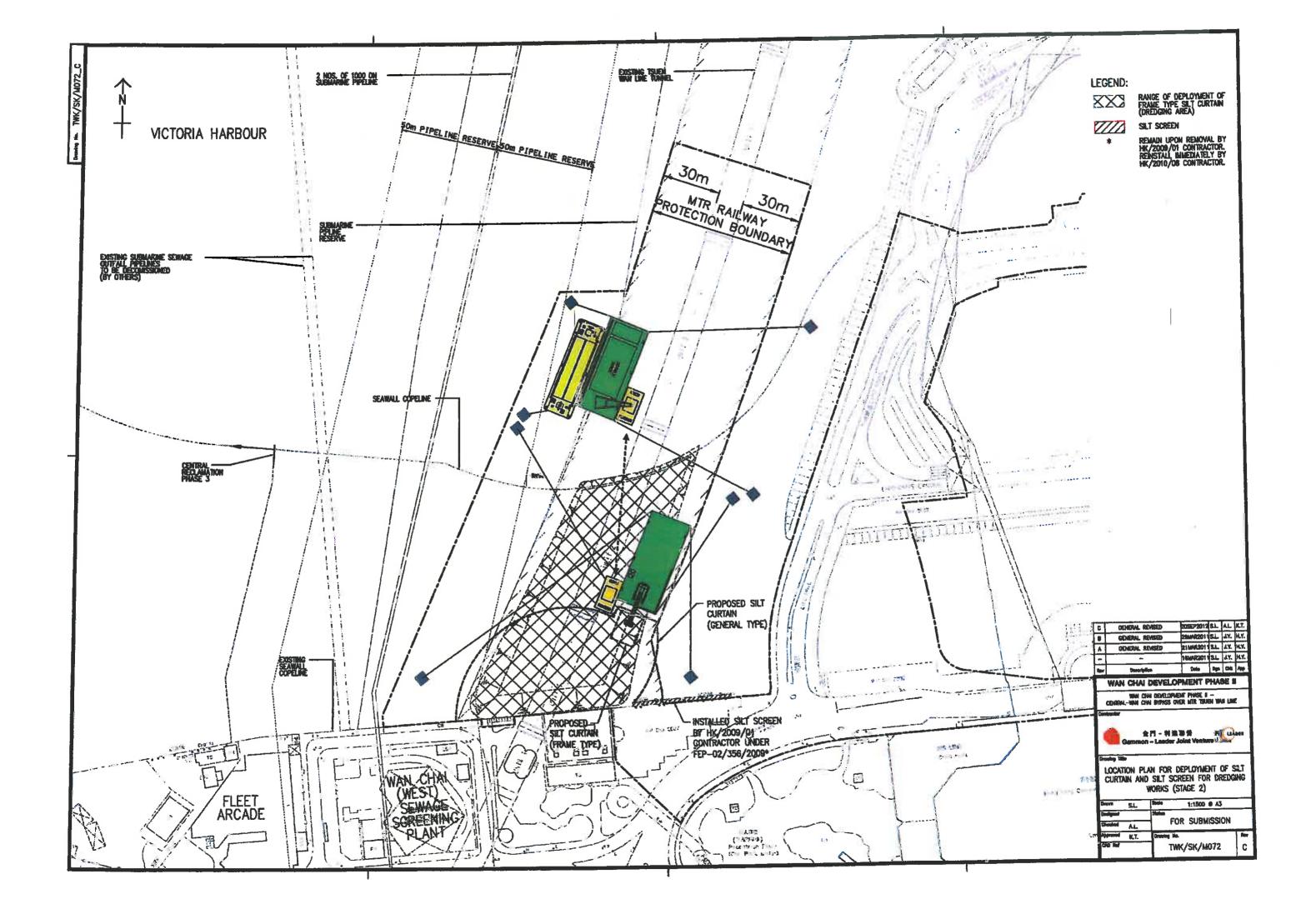
TYPICAL DETAILS FOR SILT CURTAIN

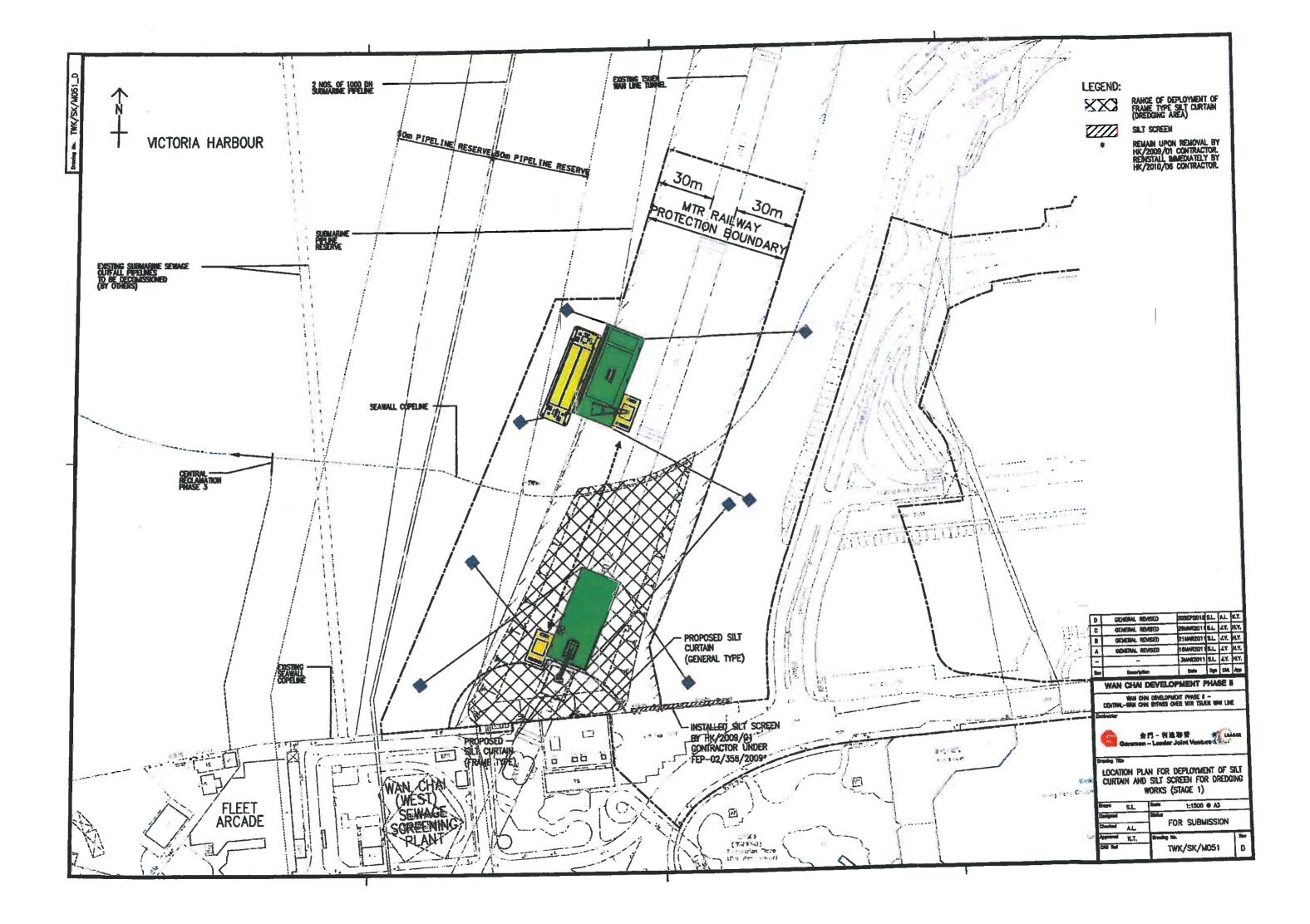
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Appendix B

Material Catalogue of Silt Curtain

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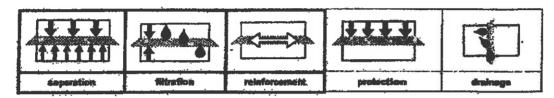
SG 110/110

Woven polypropylene geotextile made of silt film tapes

Technical data sheet according to internal specifications Bonar TF: version 06 dd. 05/01/10 Accompanying documents CE marking: version 04 dd. 05/01/10

CE

1137-CPD-616



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G AND E COMPANY LIMITED

Room B, 13/F Cheung Lee Industrial Bldg. 9 Cheung Lee Street Chai Wan, Hong Kong Tel: 2508 0058

Fax: 2570 0089

website: www.g-and-e.com

July 9, 2010

OFFICIAL ANNOUNCEMENT

I would like to inform you that geotextile Bontec SG100/100 is upgraded to SG110/110 effective immediately, and that SG100/100 has become obsolete. The performance of SG110/110 is superior to that of SG100/100.

No adjustment and adaptation are necessary to the current application, installation method, packaging and quality control assurance program with the improved properties of SG110/110.

Bonar Technical Fabrics is Europe's premier manufacturer of woven and nonwoven geotextile products, with continuous commitment to quality, product development and production improvement. One of Bonar's many advantages is that they are vertically integrated. This means they have their own fiber production which helps ensure consistent product performance. Bonar also has a high production capacity with the facility locates in close proximity to the Antwerp port. These translate into more efficient supply,

I have attached the manufacturer's letter here about the change for your reference. We would be happy to answer any questions that you may have,

Thank you for your kind attention.

Best regards

()

Gary Ng

Gary Ng General Manager

bontec

a benar technical fabrics product

o: Gand E - Hong Kong	From: Isabelle Ruyffe	elaere - 0032 52 457 487
Gary	Philippe Grimm	nelprez - 0032 52 457 486
mail: nannette@g-and-e.com	Pages; 1.+	- M
our reference: Bontec® SG 110/110		
	Our reference:	G&E07052010.doc

Dear Gary,

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We are pleased to confirm that the old name of the Bontec® SG100/100 has been replaced with the Boritec® SG 110/110.

Bonar constantly strives to increase the performance of the products over time. Thanks to improved polymers, extrusion and weaving techniques we managed to produce stronger geotextiles with the same unit weight. Hydraulic characteristics were not affected either.

Bonar uses very strict -in house- and ISO 9001:2000 quality and ISO 14001 environmental standards (in annex) and is using electricity generated from 100 % renewable sources.

We send hereby the newest datasheet as well for your information.

Should you require any further information, please do not hesitate to contact us. Best regards

Philippe Grimmelprez Global Sales & Marketing Manager





Bontec SG110/110 Woven Polypropylene Geotextile

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Certification

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QUALITY MANAGEMENT SYSTEM CERTIFICATE

ISO 9001: 2000

The BQA, sa hereby declares that the quality management system of Bonar Technical Fabrics NV – Site in Zole en Loberen



located at Industricates 39 - 9240 Zele - Belgium, has been examined on 05-05-2008 and found in conformity with the ISO 9001, edition 2000, standard for the following application field: Development, manufacture and sales of a standard range of fibres and textiles such as agretextiles, building statiles and geografieda, as well as stadiar products expecially designed to extromer specifications

This carificate has been issued by the BQA, so according to its quality mamai concerning the certification of quality aprients, and effer concluding the contract of certification N° DSM.NCER.05-05-2009/30], sinder which the company accepts a replac control of its quality management system.

Certificate Nº BQ4_QNS019_C_2004301 Faild writh 04-05-2011



D.STACOENS

Directeur

BOAN 019-0

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CERTIFICATE OF ENVIRONNEMENTAL MANAGEMENT SYSTEM

ISO 14001: 2004

The BQA, ar hereby declares that the environmental management system of the company Bonar Rechnical Fabrics NV - Site in Zele en Loberen



located at Industriestran's 9—9240 Zele -Belgium, has been examined on 05-05.2008 and found in conformity with the ISO 1400!, edition 2004, standard for the following application field:

teathes and geographetics, as well as similar products especially designed to canomer specifications, Development, monefecture and sales of a standard range of fibres and textites such as agrotextiles, buil

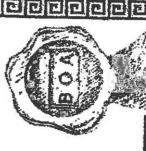
This cortificate has been traved by BQA, we according to its quality manual EMS concerning the certification of environmental management systems, and after the controct of cartification IV DSAIVCER-EMX03-05-200884 social which the company accepts o regular control of its environmental manegement system.

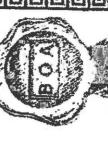
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D. SIMORNS

Directour







woven and non woven geotextiles at

Zelè,05.10,09

CERTIFICATION OF COMPORMANCE

The undersigned supplier BONAR TROUDICAL FABRICS, bereby states under his responsibility stat. the following product complies with the indicated technical properties:

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Delivery door :

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Manufacturer : Boner Technical Fabrics N.V.

BONAR TECHNICAL PABRICS N.V.

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PHONE NO. : + 852 2570 0089

Apr. 28 2005 12:00PH P1

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BOKAR IF GEO

2001/001

bontec

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To Whom It may concern

We hereby continue that Borner acquired the company UCO Technical Februar to Comber 1996 and all activities of the properties and sales of Western and North world production.

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Bontec SG110/110 Woven Polypropylene Geotextile

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Installation Guideline

BONTEC: Woven and Non Woven Gootswiles manufactured by Bonar Technical Fabrica - Belgium.



RECOMMENDATION FOR THE INSTALLATION OF GEOTEXTILES

- The BONTEC geotextiles shall be kept in its original packaging in order to protect it from damaging UV-rays and high temperatures.
- The BONTEC geotextiles shall be stored protected from wind, rain, excess moisture or sunlight.
- The BONTEC geotextiles shall only be unpacked just before use. The material shall be covered within I week
- The BONTEC geotextiles shall be labelled and show the following data:
 - roll number
 - quality
 - name of the magnifacturer
 - roll length & width
 - roll weight
- The BONTEC geotextiles shall be laid with the longitudenal ascis down slopes
- A minimum overlap of 500 mm between the different sheets shall be respected. Sewing
 of the different fabrics shall be done with a double prayer stitching technique with non deteriorating thread.
- Wherever visibility or installation of the BONTEC geotextile is poor an extra safety overlap of +/-1 m shall be respected
- The surfaces to be covered with BONTEC geotextiles shall be smooth and free of sticks, roots, sharp objects, and all debris that may damage the fabric. The surface to be covered shall be firm and unyielding, with no sudden changes or brakes in grade.
- The compacted sub-base shall be maintained in a smooth, uniform and compacted condition during installation of the fabric.
- In area's where wind is prevalent, fabric installation shall be istarted at the upwind side of the project and proceed downwind. The leading edge of the fabric shall be secured at all times with sandbags or other means sufficient to hold it down during high winds. Sandbags or rubber tires may be used as required to hold the fabric in position during installation. Tires shall not have exposed seed cords or other sharp edges which may mag or cut the fabric. Materials, equipment or other items shall not be dragged across the fabric or be allowed to slide down stopes on the fabric.
- Should the fabric be damaged during any step of the installation, the damaged section shall be repaired by
 covering it with a piece of fabric which extends at least 0,6 meter in all directions beyond the damaged area.
 The fabric shall be secured as directed by the engineer.
- Smoking shall not be permitted by personnel working on the fabric.

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Bontec SG110/110 Woven Polypropylene Geotextile

List of Project Reference

Bonar

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Ĭ.		A Committee of the Comm		
Feb-05	CV/2003/06 Stanley Waterfront Improvement Project - Construction Pler and Boardwalk	Sun Fook Kong (Civil) Ltd	Civil Engineering and Development Department	SG100/100 NW10
Feb-05	99/9028 Lemma Power Station	Wal Kee (Zens) Construction & Transportation Co Ltd	Maunsell Geolechnical Services Ltd	\$G100/100
Feb-05	CV/2004/02 Reconst. of Wong Shek & Ko-Lau Wan Public Piers	Kin Shing Construction Co Ltd	Civil Engineering and Development Department	\$G100/100
Apr-05	CV/2002/04	Gammon Skanska Ltd	Scott Wilson Ltd	SG100/100
4.4	Penny's Bay Reclamation Stage 2	Shun Tat Construction Engineering Ltd	1	SG100/100
Apr-05	HK/12/02 CED, Central Reclamation Phase III, Erigineering Works	Best Leader Engineering Lid Leighton - China State - Van Oord Joint Venture	Atkins China Ltd	SG100/100 SG100/100
May-05	03/8013 Lamma island to Cyberport	Leader Marine Contractors	Maunsell Geotechnical	SG100/100
	Prutuitin course on About has	Honwin Engineering Ltd	Services Ltd	SG100/100
Jul-05	Shenzhen to Tai Po Twin Submarine Gas Pipeline Project	Horwin Engineering Ltd		SG100/100
Sep-05	TP37/03 Remaining Engineering Infrastructure Works for Pak Shek Kok Development Package 2A	Leader - Wai Kee (C&T) Joint Venture	Hyder Consulting Ltd	SG100/100
Nov-05	HY/2002/26 Stone Cutter's Bridge	Hong Kong River Engineering Co Ltd	Ove Arup & Pertners HK Ltd	SG100/100
	CV/2005/12 Fill Reception Facilities at Tseung Kwan O Area 137 Quarry Bey and Mul Wo	Co Ltd	Civil Engineering and Development Department	SG100/100
	Maintenance Dredging at Castle Peak Power Station (CPPS) Jetty	Development Ltd	Civil Engineering and Development Department	S@100/100
	CV/2004/04 Meintenance and Repairs to Government / Public Piers and Immersed Tubes of Hung Hom Cross- Harbor Tunnel	Co (Group)	Civit Engineering and Development Department	SG100/100
10000	HY/2005/06 Castle Peak Road knorovement	Shun Tat Construction Engineering Limited	Mouchel Halcrow JV	SG100/100
	West of Taing Lung Tau	Chun Wo Gonstruction & Engineering Co Ltd		8G100/100

May-06	212 Main Works for the Proposed Third Golf Course Development at Kau Sal Chau, Sai Kung	China Harbour Engineering Co (Group)	Ove Arup & Partners HK Ltd	SG100/100
Jun-06	Hong Kong Convention and Exhibition Centre Project - Silt Screening for Intake Pipe	Wai Kee (Zens) Construction & Transportation Co Ltd Kaden - Wai Kee (C&T) Joint Venture	NA	SG100/100 SG100/100
Aug-Ó6	EP/SP/52/06 Development of EcoPark in Tuen Mun Area 38	Kaden Construction Limited	Scott Wilson Ltd	\$G100/100
Sep-06	CV/2004/06 Management and Capping of Containleated Mud Pit IV at East of Sha Chau - Phase III	Kaden - Wei Kee (C&T) Joint Venture	Civil Engineering and Development Department	861007100
Oct-06	Larrená Istand Cable Landing	United Marine Co Ltd	Hong Kong Electric Co Ltd	SG100/100
Nov-06	CV/2004/01 Maintenance and Repairs to Seawalls, Piers and Other Port Works	Kin Shing Construction Co Ltd	Civil Engineering and Development Department	SG100/100
Dec-06	Private project	Friendly Benefit Engineering Ltd		SG100/100
Feb-07	Prebored Socketted H-Piles at Hong Kong Convention & Exhibition Centre	Yee Hop Engineering Co 1.td	NA	SG100/100
May-07	HY/2005/06 Castle Peak Road Improvement - West of Telng Lung Tau	Chun Wo Construction & Engineering Co Lid	Mouchel Halcrovi JV	S Ġ100/100
May-07	CV/2004/05 Dredging Maimenance	China Harbour Engineering Co Ltd	Civil Engineering and Development Department	\$G100/100
Aug-07	Dredging Project in Lai Chi Kok Shipperd	Maritime Mechanic Ltd	NA	\$G100/100
Áug-07	6/WSDIG6 Construction of Salt Water Supply System for Penny's Bay	Univic Eitglrieering Ltd	Water Supplies Depairment	SG1007100
	Permanent Aviation: Fuel Facility Hong Kong International Airport (Contract No. H2104)	UDL Dredging Ltd	Babtie Asia Ltd	SG100/100
Dec-07	Seawal Modify, Tuen Mun Area 38	Cheer Engineering Ltd	Scott Wilpon Ltd	SG100/100
May-08	DC/2007/10 Design and Construction of HK West Drainage Tyrinal	Tapho Civil Engineering Co Ltd	Ove Arup & Partners HK Ltd	
Sep-08	CV/zibbs/05 Meinteriarice of Seewalls and Navigation Channels	Chine Harbour Engineering Co Ltd	Civil Engineering and Development Department	\$G100/10¤

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Sep-08	Marine Works at Maldives	Kwan Sing Engineering & Construction Co.Ltd		\$G100/100
Nov-08	DC/2007/06 River Improvement Works in Upper Lam Tauen River, She Shen River and Upper Tail Po River		Mauneell Consultants Asid Ltd	SG100/100
	DC/2007/01 Drainage Improvement Works in Ki Lun Tauen, Kiwu Tung, Ma Tao Lung and Sha Ling	Shanghai Urban Construction Group Corp	Mott Corinell Ltd	\$G100/100 \$G40/40
	CHEC247 Lamma Power Station - Navigation Channel Improvement	China Harbour Engineering Co Ltd		SG100/106

Updated November 26, 2009



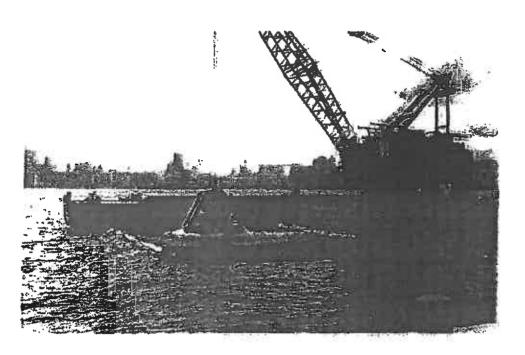
Bontec SG110/110 Woven Polypropylene Geotextile

Photo References



G AND E COMPANY LIMITED

Room B, 13/F Cheung Lee Industrial Building 9 Cheung Lee Street, Chei Wan, Hong Kong Tel: 862-2508 0058 Fax: 852-2570 0089 website: www.g-and-e.com



Date

Feb-10

Project

Contract No. HY/2009/11

Central - Wanchai Bypass - North

Point Reclamation

Client

Highways Department

Consultant

AECOM

Main Contractor

China Habour Engineering Company

Works

Silt Curtain

Materials

Woven Geotextile SG100/100

Size

3,675 sqm



Bontec SG110/110 Woven Polypropylene Geotextile

Approval Letters

FROM : G AND E COMPANY LIMITED

PHONE NO. : + 852 2578 8889

Apr. 28 2005 12:02PM P6

Civil Engineering and

Development Department

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: 1

Kin Shing Construction Company Limited

Mone Kok

Kowloon

(Attn.: Mr. Patrick P K Chen - Site Agent)

Dear Sire,

Contract No. CV/2004/32

Reconstruction of West Shak and No Low Was Public ?

Material Subpilitation - Goodparille for Sile Catchelle

I refer to your letter of 14.1.2005 enclosing the particulars of the protestale for fabrication of silt carmin.

In accordance with PS Claims 26.05(2), the proposed "SG 100/100" worstn protentile manufactured by Botton Technical Fatzion is approved to be under the captioned Control.

President to PS Clarke 26.08(1), you are required to submit details of the till chiralita 3 was before their deployment.

STOW/P2B

100/ TOO'E 05688

ERITE COOK-BE-GEF

FROM : G AND E COMPANY LIMITED

PHONE NO. : # 852 2576: 0089

Apr. 28 2885 12:82PM P?

24-FED-8885 19157 FROM SFK 18-2 TRUCK TD 25703009

P.01/81

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土木工電布具等 civil Engineering and Disvelopment Department

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土木工程度 Chil Expineering Office

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12 Pelestery 2005.

ing, or a substitute

Contract No. CVQ MANGE CARROLL

John after Ath. Christia

There no objection to your proposed signaful for afte curvatu-

Mari Beldelille.

CM Replaced 1 Section Department

CA. Sin Office (Ame SIDAVIPLA) CECUPIA

File PW WOCVOOGSCIONO

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nyate. P. al.

Mott MacDonald Hong Kong Limited

Consulting Engineers

Chief Resident Engineer's Office North Landau Daveldyment - Tony Ch for Territoriat Daveldyment Departmen

Our Ref : \$287/NL1/25.7/283/JY

90 June 1992

China Harbour Engineering Company 19/F, China Harbour Building 370-374 King's Road North Point Hoog Kong.

Attn : Mr. 8. Y. Yu

Dear Sira

North Liming Bevelopment Contract No. NLL/91 Pong Ching Development Phase I - Site Formation Materials for Subsell Drains

I refer to your letter rol. NL1/C/0097/008/MAI/143 of 10/6/92 submitting univertals for subsoil dealer for our approprial.

I have the following comments:

- The proposed subsult drain material Lv. 300 mm discours ADS corrugated polyechylene subsult drain piper from Bengak Waterwise company is acceptable.
- The proposed Geometile SG17/15 from UCO (2 layers) as prosection for subsoil drainings is acceptable in principal. Plans submit further exchange specification such as lapping and sin storage requirements recommended by the manufactures. 2)
- The proposed Generaliz Region Special type 5 from CCL is still under review. You will be notified of the outcome if a decision is made.

SE MOTT MACDONALD BONG KONG LIMITED

Majurgeti Consultants Asia Ltd. SF Grand Gentral Plaza, Tower 2, 138 Shatin Rural Committee Road Shatin, N.T. Hong Kong

法据(订报)工程编码有限公司 专注机及分别制定法: 30 投机信仰中央管理率 2 后 8 截 T +852 2605 6222 F +852 2804 2613 www.mauntell.secom.com SRE's Office T +862 2008 6798 F +852 2834 2809 E coe@iniv.com.init

Your Ref.: DC0708H41.2/1612 & 1529 Our Ref.: (DC/2007/05)/R20/108(0023)

Chiu Hing Construction & Transportation Co. Ltd.
Room 201, 2/F Fuk Shing Commercial Building
28 On Lok Mun Street
On Lok Tauen, Faning
New Tentiories, Hong Kong

Attn: Mr. Roger Lau (Sile Agent)

48 November 2008

Dear Sin

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Contract No. DC/2007/08 River intercomment Works in Upper Lant Tesen River, She Shen River and Upper Tal Po River

Proposed Geolectics at Gabion Well in She Shan River and Upper Tai Po River.

I refer to your letter dated 7 November 2006 and 12 November 2008 respectively.

Please he advised that since the water flow rate of the proposed geotetide model Boylec SG 100/100 masts the requirements in eccordance with P.S. Clause 7.160, I have no further objections to your proposed use of woven geotectic model Bontec SG 100/100, supplied by "G and E Company Ltd," at gebien wall in She Shan River and Tal Po River, subject to its satisfactory performance on site.

Your fellishing,

Adrian Ng Resident Englands

MCAL - Afin : Mr. Conder Yan

Chiu Hing H.O.

ANATA

ECETAE H 1 3 NOV 2000 Appendix C
Programme for the Deployment of the Silt Curtain

FEP-05/356/2009
Silt Curtain Deployment Plan
Programme for the Deployment of Silt Curtain

Apr 2013		+			+		
Mar 2013	A			+			
Feb 2013							
Jan 2013							
Dec 2012	187		1		8		
Duration	1 Day		22 Day		1 Day		
Earliest Start Day Earliest Finish Day Duration	10-Dec-12		1-Jan-13		2-Jan-13		
Earliest Start Day	10-Dec-12		11-Dec-12		2-Jan-13		
	Commissioning of Silt Curtain		Dredging Work		Decommissioning of Silt Curtain		