MOLLYMOOK BEACH STORMWATER ENTRAINMENT STRUC

DRAWING NUMBER

- WT-22010212-DR-A-000

- WT-22010212-DR-A-001

• WT-22010212-DR-A-002

- WT-22010212-DR-A-003

DRAWING TITLE

NOTES AND SPECIFICATIONS GENERAL ARRANGEMENT TYPICAL CROSS-SECTION GSC AND ROCK BAGS LAYOUT AND ARRENGME

NOTES

1.DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE. 2.ALL LEVELS ARE RELATIVE TO AUSTRALIAN HEIGHT DATUM.

THIS DRAWING SET SHALL BE READ IN CONJUCTION WITH THE TECHNICAL SPECIFICATION 22010212_R02_V01A_TECHNICALSPECIFICATIONS.

SAFETY IN DESIGN DOCUMENTATION SID TO BE COMPLETED

ALL MATERIALS AND WORKMANSHIP SHALL BE AS DEFINED IN THE SPECIFICATION DOCUMENT UNLESS NOTED OTHERWISE.

MATERIALS - GEOTEXTILESAND CONTAINER

GSCS SHALL BE BASED ON GEOFABRICS AUSTRALASIA'S ELCOROCK® 2.5m3 CONT EQUIVALENT WITH THE FOLLOWING PROPERTIES:

GEOTEXTILE PROPERTIES

PROPERTY	VALUE(min/typical)	TEST METHOD
POLYMER TYPE	POLYESTER OR POLYESTER/POLYPROPYLENE	
MASS	1050 g/m²	AS3706.1
CBR BURST STRENGTH	7.9 kN	AS3706.4
TENSILE STRENGTH	MD	20kJ/m ² AS370.2
	XMD	30 kJ/m²
ABRATION RESISTANCE	24.5 kN/m²	BAW ROTATING DRU
UV STABILITY	500 hours	38 kN/m ASTM D4355
	1000 hours	32 kN/m
	2000 hours	31 kN/m

GEOTEXTILE FULL STANDARD DIMENSIONS

PARAMETER	VALUE
LENGTH	2.3m
WIDTH	1.9m
THICKNESS	0.6m
VOLUME	2.5m ³

THE GSC SAND FILL SHALL HAVE THE FOLLOWING PHYSICAL PROPERTIES:

ASPECT	REQUIREMENT
PETROGRAPHY	CLEAN, FRESH MEDIUM SAND INERT,TYPICALLY SOURCED FROM SILICA OR LITHIC SAND
SPECIFIC NET DENSITY	2550 kg/m ³ +20%
BULK DENSITY	1650kg/m ³ ± 20%
MEDIAN GRAIN SIZE	BETWEEN 0.5 mm AND 0.2mm LESS THAN 1% SMALLER THAN 0.075 mm
D95 PARTICLE SIZE	2mm

	MATERIALS - ROCK BAGS
ENT	ROCKBAGS UNIT SHALL BE BLUEMONT 2T ECOGREEN TYPE BAGS OR EQUIV ROCKBAGS SHALL BE FILLED AND PLACED IN ACCORDANCE WITH THE MANU SPECIFICATIONS AND INSTALLATION GUIDLINES. SPECIFIC GRAVITY OF FILLING STONES IS BETWEEN 2.6 TO 2.65 AND MAXIMU OF THE FILLING IS 200mm. EQUIVALENT ROCK BAGS MAY BE OFFERED FOR APPROCAL BY SUPERINTEN ALTERNATIVE.
	MATERIALS - GEOGRID
	GEOGRID SHALL BE GEOWEB CELLULAR CONFINEMENT SYSTEM OR EQUIVA MINIMUM SPECIFICATION OF 150 mm CELL DEPTH. GEOGRIDS SHALL BE INSTALLED AND LAPPED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMENDATIONS AND SPECIFICATIONS. EQUIVALENT GEOGRID MAY BE OFFERED FOR APPROCAL BY SUPERINTENDI ALTERNATIVE.
	TESTING SCHEDULE
N	GENERAL ALL TESTING OF MATERIAL FOR QUALITY CONTROL PURPOSES SHALL BE IN WITH AN APPROVED CONTRACTOR'S QUALITY PLAN.
TAINER OR	MATERIALS WHICH DO NOT COMPLY WITH THE REQUIREMENTS OF THIS TEC SPECIFICATION SHALL NOT BE INCORPORATED IN THE WORKS.
	THE CONTRACTOR'S QUALITY PLAN SHALL INCLUDE ON-GOING SUBMISSION RESULTS AS THE WORKS TO COUNCIL AS THE WORK PROGRESSES, AND A OF TESTING RESULTS SHALL BE KEPT FOR INSPECTION.
	GSC MEASUREMENT OF THE MASS OF FIVE SATURATED GSC SHALL BE UNDERTA
	EACH GSC TESTED SHALL BE ENGRAVED ONTO A PERMANENT POLYESTER 50mm INDICATING THE GSC TEST NUMBER AND THE MASS MEASUREMENT IN FOLLOWING SEQUENCE "TEST-NUMBER/GSC MASS (TON" (i.e. 001/4.65).
M	A MARINE SILICON ADHESIVE SHALL BE USED FOR BONDING.
	A SAMPLE OF TAG AND SHALL BE PROVIDED TO COUNCIL FOR APPROVAL, P INSTALLATION. GSC THAT HAVE BEEN TAGGED SHALL BE PLACED ON THE TO OUTER-LAYER OF THE SEAWALL, WITH THE TAG VISIBLE. THE TAGS SHALL B UNCOVERED UNTIL COUNCIL INSTRUCT TO COVER THEM WITH SAND.
	PLACEMENT AND CONSTRUCTION TOLERANCES
	IF GSC ARE NOT PLACED WITHIN THE CONSTRUCTION TOLERANCES THE INT THE STRUCTURE MAY BE COMPROMISED. THE GSC AND ITS NEIGHBOURING SHALL BE RE-ESTABLISHED AT THE CONTRACTOR'S EXPENSE.
	THE CONSTRUCTION TOLERANCES ARE AS FOLLOW FOR EACH INDIVIDUAL E VERTICAL TOLERANCE: 0.6m THICK, +/-100mm PER BAG SATURATED MASS: AT LEAST 4.5T FOR 90% OF BAGS. NO BAG LESS
	GSC STRUCTURE:
	CREST LEVEL:AS PER DRAWING, +/-200mm FOR THE TOP OF GSALIGNMENTAS PER DRAWING, +/-150mm FOR THE SEAWARD FAMAXIMUM VOID SIZE:300mm

	NOTES				
	1.ALL DIMENSIONS ARE IN METERS	i			
	UNLESS NOTED OTHERWISE 2.ALL COORDINATES ARE IN METER RELATIVE TO CDA 2020 ZONE 52	RS			
JIVALENT. ANUFACTURER'S	3.ALL MATERIALS AND WORKMANS	RELATIVE TO GDA 2020 ZONE 52 3.ALL MATERIALS AND WORKMANSHIP			
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RTAKEN. ER TAG 100mm X T IN THE	B 16/09/22 FOR CONSTRUCTION A 31/05/22 FOR COMMENTS REV DATE DESCRIPTION REVISIONS FOR COMMENTS	MXP CXB CX			
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RTAKEN. ER TAG 100mm X T IN THE , PRIOR TO E TOP THREE	B 16/09/22 FOR CONSTRUCTION A 31/05/22 FOR COMMENTS REV DATE DESCRIPTION REVISIONS PROJECT MOLLYMOOK BEACH STORMWATER ENTRAINMENT STRUCTURE	MXP CXB CX MXP CXB CX BY CHK API			
RTAKEN. ER TAG 100mm X TIN THE	B 16/09/22 FOR CONSTRUCTION A 31/05/22 FOR COMMENTS REV DATE DESCRIPTION REVISIONS PROJECT MOLLYMOOK BEACH STORMWATER ENTRAINMENT STRUCTURE	MXP CXB CX MXP CXB CX BY CHK AP			
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AL BAG:	B 16/09/22 FOR CONSTRUCTION A 31/05/22 FOR COMMENTS REV DATE DESCRIPTION REVISIONS PROJECT MOLLYMOOK BEACH STORMWATER ENTRAINMENT STRUCTURE CLIENT CLIENT BIM REF. 22010212-WT-ZZ-XX-DR-A-000 TITLE NOTES AND SPECIFICATIONS 15 Business Table 15 Business Table	MXP CXB CX MXP CXB CX BY CHK API			
RTAKEN. ER TAG 100mm X TIN THE , PRIOR TO TOP THREE L BE LEFT INTEGRITY OF NG CONTAINERS AL BAG: SS THAN 4.0T	B 16/09/22 FOR CONSTRUCTION A 31/05/22 FOR COMMENTS REV DATE DESCRIPTION REVISIONS PROJECT MOLLYMOOK BEACH STORMWATER ENTRAINMENT STRUCTURE CLIENT CLIENT LUENT CLIENT DIM REF. 22010212-WT-ZZ-XX-DR-A-000 TITLE NOTES AND SPECIFICATIONS ISBURES	Image: Second system Image: Second system Image: Max P CXB CXX MXP CXB CXX MXP CXB CXX BY CHK API BY CHK API R Image: Second system Image: Second system Park Dr, Notling Hill VIC 3168 +61 (0)3 8526 0800 Image: Second system Image: Second system Image: Second system <			
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RTAKEN. ER TAG 100mm X TIN THE , PRIOR TO TOP THREE L BE LEFT INTEGRITY OF NG CONTAINERS AL BAG: SS THAN 4.0T	B 16/09/22 FOR CONSTRUCTION A 31/05/22 FOR COMMENTS REV DATE DESCRIPTION REVISIONS PROJECT MOLLYMOOK BEACH STORMWATER ENTRAINMENT STRUCTURE CLIENT CLIENT 2010212-WT-ZZ-XX-DR-A-000 TITLE NOTES AND SPECIFICATIONS ISBURES ISBURES DITLE DISECTION ISBURES	MXP CXB CX MXP CXB CX BY CHK AP BY CHK AP R			



	CO	ORDINATES
POINT	EASTING	NORTHING
А	270545	6087424
В	270562	6087424

NOTES

1.ALL DIMENSIONS ARE IN METERS UNLESS NOTED OTHERWISE

2.ALL COORDINATES ARE IN METERS RELATIVE TO GDA 2020 ZONE 52

3.ALL MATERIALS AND WORKMANSHIP WILL BE AS DEFINED IN THE SPECIFICATION UNLESS NOTED OTHERWISE

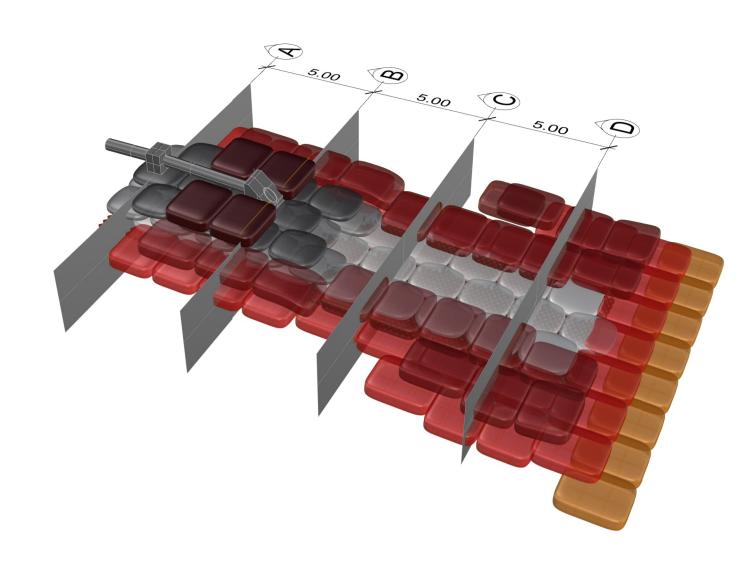
FOR CONSTRUCTION

В	16/09/22	FOR CONSTRUCTION	MXP	СХВ	СХВ
А	31/05/22	FOR COMMENTS	MXP	СХВ	СХВ
REV	DATE	DESCRIPTION	BY	СНК	APP
REVI	SIONS				

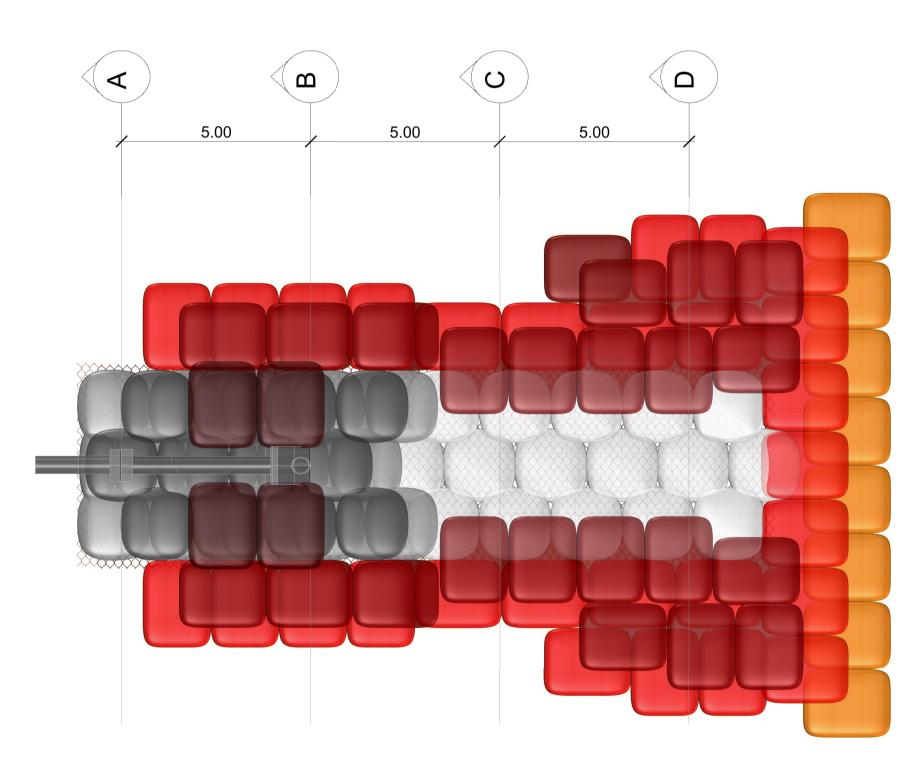
PROJECT

MOLLYMOOK BEACH STORMWATER ENTRAINMENT STRUCTURE





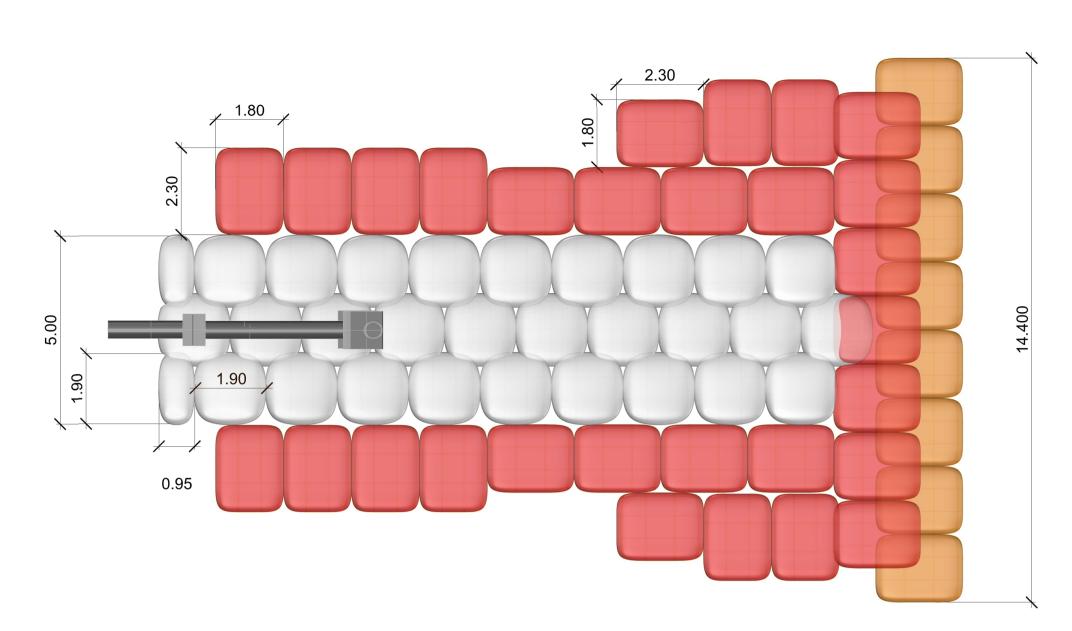
STRUCTURE PERSPECTIVE VIEW



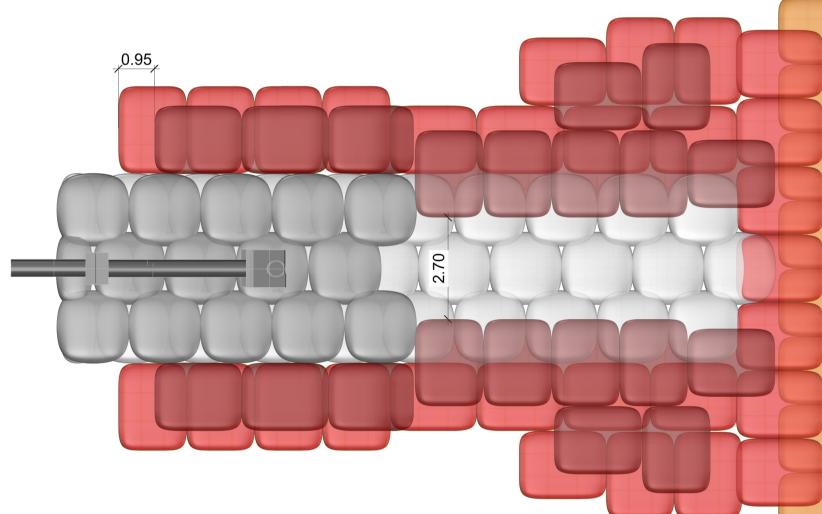
STRUCTURE TOPVIEW SCALE 1:100

LAYER NAME	LAYER COLOR
ROCK BAG A	
ROCK BAG B	
ROCK BAG C	
GSC 1	
GSC 2	
GSC 3	
GSC 4	

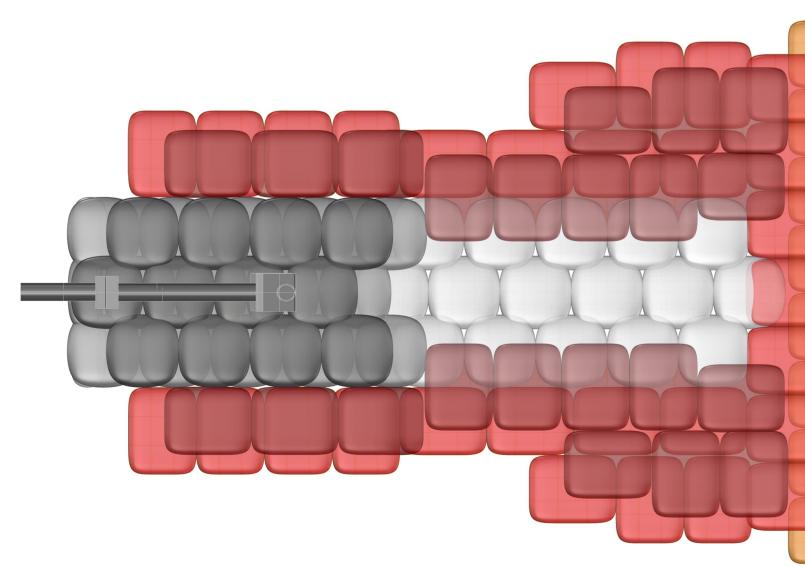
LEGEND OF COLORS



ARRANGMENT OF ROCK BAG LAYER 1 AND GSC LAYER A & B SCALE 1:100



ARRANGMENT OF ROCK BAG LAYER 1&2 AND GSC LAYER A\$ & B & C SCALE 1:100



ARRANGMENT OF ROCK BAG LAYER 1&2 & 3 AND GSC LAYER A\$ & B & C& D SCALE 1:100





NOTES

1.ALL DIMENSIONS ARE IN METERS UNLESS NOTED OTHERWISE

2.ALL COORDINATES ARE IN METERS RELATIVE TO GDA 2020 ZONE 52 TOTAL NUMBER OF GEOTEXTILE SAND

CONTAINER IS 61

TOTAL NUMBER OF ROCK BAGS IS 58

FOR CONSTRUCTION

В	16/09/22	FOR CONSTRUCTION	MXP	СХВ	СХВ
А	31/05/22	FOR COMMENTS	MXP	СХВ	СХВ
REV	DATE	DESCRIPTION	BY	СНК	APP
REVISIONS					

PROJECT

MOLLYMOOK BEACH STORMWATER ENTRAINMENT STRUCTURE

CLIENT

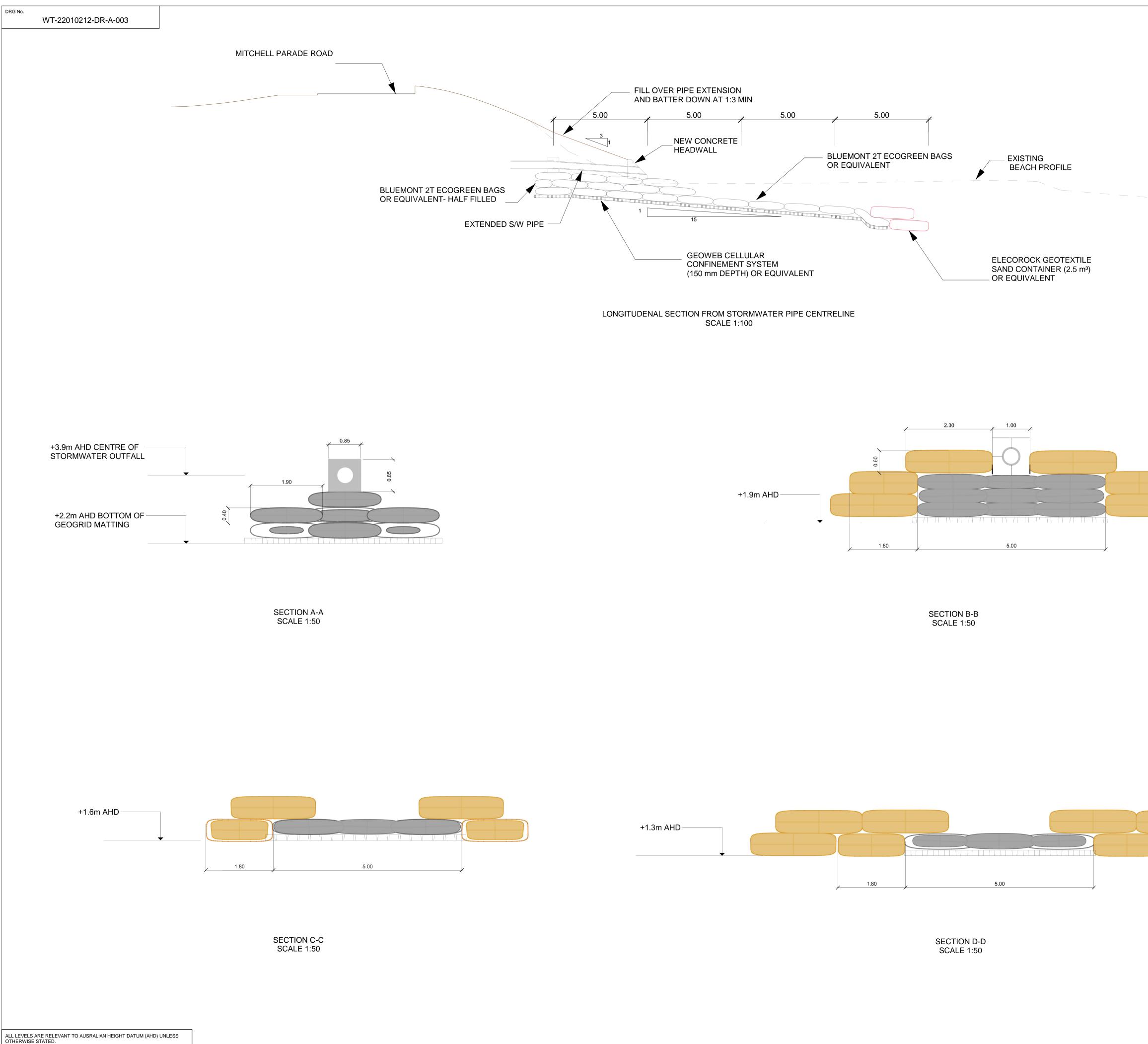


ым ref. 22010212-WT-ZZ-XX-DR-A-002

TITLE

GSC AND ROCK BAGS LAYOUT AND ARRENGMENT

WATER TEC WATER, COASTAL & ENVIRON	E	usiness Park Dr, Tel +61 (0)3 mail info@waterte osite www.waterte	VIC 3168 8526 0800 ech.com.au	
DRAWN MXP	CHECKED CXB		APPROVED CXB	
DATE SCALE AS NOTED 16/09/2022 AT A1			REF. 22010212-01-002	
DRAWING No.			SUITABILITY	REVISION
WT-22010212-D	R-A-002			



NOTES

1.ALL DIMENSIONS ARE IN METERS UNLESS NOTED OTHERWISE

2.ALL COORDINATES ARE IN METERS RELATIVE TO GDA 2020 ZONE 52

3.ALL MATERIALS AND WORKMANSHIP WILL BE AS DEFINED IN THE SPECIFICATION UNLESS NOTED OTHERWISE

FOR CONSTRUCTION

В	16/09/22	FOR CONSTRUCTION	MXP	СХВ	СХВ
А	31/05/22	FOR COMMENTS	MXP	СХВ	СХВ
REV	DATE	DESCRIPTION	BY	СНК	APP
REVI	SIONS				

PROJECT

MOLLYMOOK BEACH STORMWATER ENTRAINMENT STRUCTURE

CLIENT



22010212-WT-ZZ-XX-DR-A-003

TITLE

BIM REF.

TYPICAL CROSS SECTIONS

WATER TEC WATER, COASTAL & ENVIRON	Em	Business Park Dr, Notting Hill VIC 3168 Tel +61 (0)3 8526 0800 Email info@watertech.com.au /ebsite www.watertech.com.au/		
DRAWN MXP	CHECKED CXB		APPROVED CXB	
DATE 16/09/2022	SCALE AS NOTED AT A1	1.	REF. 2010212-01-00	03
DRAWING No.	5	SUITABILITY REVISION		
WT-22010212-DR-A-003				

