

HAZARD WARNINGS

A! WORKING ADJACENT TO WATER
 B! SOFT & UNSTABLE GROUND
 C! PUBLIC BEACH
 D! SERVICES- EXISTING OUTFALL
 E! UNSTABLE ROCK ARMOUR
 F! PORTHLOO SSSI

• FOR MORE DETAILED INFORMATION PLEASE REFER TO THE DESIGNERS H&S HAZARD RECORD.
 • EVERYDAY OR LOW RISK HAZARDS HAVE NOT BEEN INDICATED ON THIS DRAWING. NEITHER HAVE HAZARDS THAT SHOULD BE OBVIOUS TO A COMPETENT CONTRACTOR.
 • SHOULD ANY ADDITIONAL HAZARDS BE IDENTIFIED THE CONTRACTOR SHOULD NOTIFY ALL THE RELEVANT PROJECT TEAM MEMBERS.

- NOTES:**
- DO NOT SCALE FROM THIS DRAWING, USE FIGURED DIMENSIONS ONLY
 - ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
 - ALL LEVELS IN METRES RELATIVE TO ORDNANCE DATUM LOCAL (ODL).
 - TIDE INFORMATION RELATIVE TO ODL:
 HAT 3.39m
 MHWS 2.79m
 MLWN 1.39m
 MLWS -0.91m
 MLWS -2.21m
 - SETTING OUT POINTS (SOP) IN ORDNANCE SURVEY
 SOP 8: 90903.90 ; 11375.79
 SOP 9: 90900.17 ; 11386.25
 SOP 10: 90891.06 ; 11375.79
 SOP 11: 90900.78 ; 11351.20
 SOP 12: 90890.02 ; 11351.20
 SOP 13: 90900.78 ; 11335.20
 SOP 14: 90890.02 ; 11335.20
 SOP 15: 90894.88 ; 11307.28
 SOP 16: 90882.25 ; 11309.63
 SOP 17: 90892.84 ; 11296.37
 SOP 18: 90894.16 ; 11301.82
 SOP 19: 90897.83 ; 11321.48
 - 1 IN 200 YEAR JOINT PROBABILITY STILL WATER LEVEL RELATIVE TO ODL- SWL 4.14M

LEGEND:

- ESTIMATED BURIED EXTENT OF REVETMENT
- ESTIMATED EXPOSED EXTENT ROCK ARMOUR
- SITE WON MATERIAL TO OVERLAY REVETMENT & BACKFILL ENGINEERED DEFENCE
- PROPOSED CONTRACTOR'S COMPOUND & MATERIAL STORAGE AREA
- COMBINED SEWER
- WATER MAIN
- PORTHLOO SSSI BOUNDARY
- ESTIMATED BEACH/ REVETMENT INTERFACE
- WORKING AREA

Rev	Date	Description	Drawn	Check	Approv
P4	01NOV19	DRG TITLE: REVETMENT & SoPs	MC	GM	PV
P3	10APR19	WORKING AREA & COORDINATES	MH	MC	IC
P2	03OCT17	DRAWING & NOTES AMENDMENTS	GM	MC	IC
P1	02AUG17	FOR INFORMATION	GM	MC	IC

Client

COUNCIL OF THE ISLES OF SCILLY

PROJECT:
ISLES OF SCILLY FLOOD DEFENCE AND DUNE MANAGEMENT SCHEME

Site
 Isles of Scilly
 Porthloo, St. Mary's

Client
 Council of the Isles of Scilly
 Town Hall, St. Mary's
 Isles of Scilly,
 TR21 0LW
 +44 (0)1720 424000
 enquiries@scilly.gov.uk
 http://www.scilly.gov.uk/

ARCADIS Design & Consultancy for natural and built assets

Registered office:
 Arcadis House
 34 York Way
 London
 N1 9AB

Coordinating office:
 Unit 7, Chamberlain House,
 Research Way, Plymouth Science Park,
 Plymouth PL8 6BT
 Tel: +44 (0)1752 689 000

www.arcadis.com

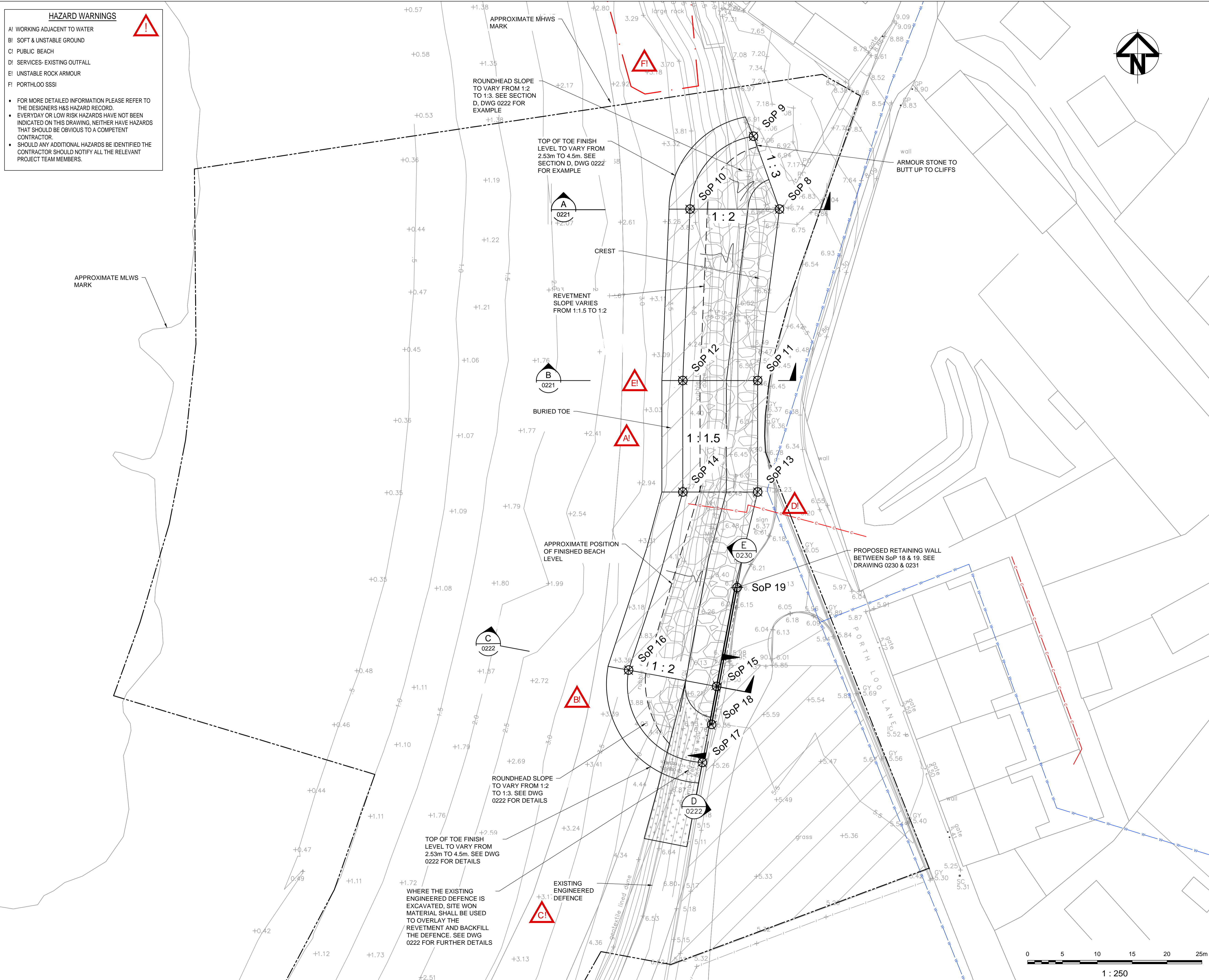
TITLE:

PORTHLOO REVETMENT PLAN

Designed	G. MCDONNELL	Signed	<i>G. McDonnell</i>	Date	02AUG17
Drawn	G. MCDONNELL	Signed	<i>G. McDonnell</i>	Date	02AUG17
Checked	M. CLAUSEN	Signed	<i>M. Clausen</i>	Date	02AUG17
Approved	I. COOKE	Signed	<i>I. Cooke</i>	Date	02AUG17
Scale:	1:250	Datum:	ST.MARYS		
Original Size:	A1	Grid:	OS		
Suitability Code:	S2	Project Number:	UA008878		

ISSUED FOR INFORMATION

Drawing Number: UA008878-ARC-XX-XX-DR-CE-0220
 Revision: P4



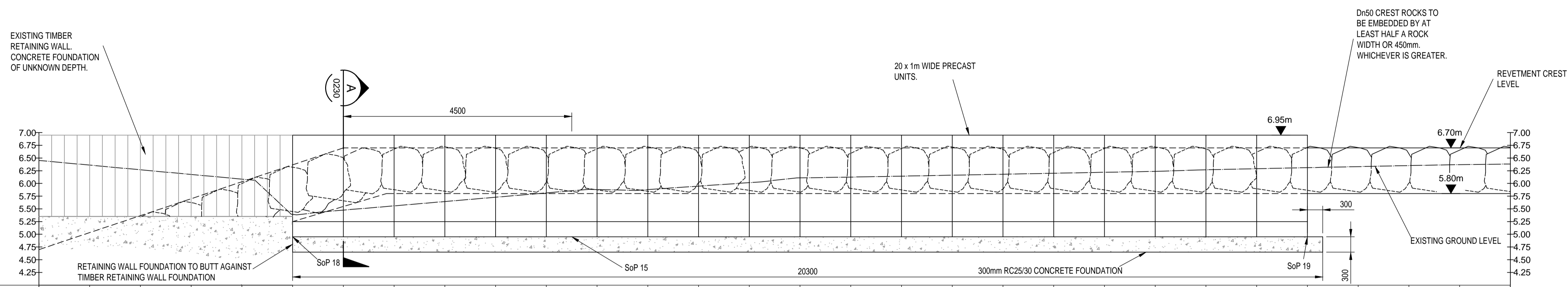
RECEIVED
By Emma Kingwell at 1:12 pm, Jun 22, 2021

- NOTES CONTINUED
- FORMATION LEVEL TO BE INSPECTED BY GEOTECHNICAL ENGINEER OR COMPETENT PERSON TO IDENTIFY 'SOFT SPOTS'. ALTERNATIVELY, FORMATION LEVEL TO BE PROOF ROLLED AND 'SOFT SPOTS' IDENTIFIED EXCAVATED AND BACKFILLED WITH COMPACTED SITE WON GRANULAR MATERIAL.
 - FORMATION LEVEL TO BE COMPACTED TO 95% OF PROCTOR MAXIMUM DRY DENSITY, AS DETERMINED BY BS1377, PART 4.
 - THE RETAINING WALL CONCRETE CLASS AND COVER REQUIREMENTS CAN BE MODIFIED IN-LINE WITH THE REQUIREMENTS OF BS6349-1-4, TABLE 2, EXPOSURE CLASS, XS1
 - FOUNDATION A393 MESH REINFORCEMENT TO BE LAPPED BY MINIMUM OF 400mm.

- NOTES
- DO NOT SCALE FROM THIS DRAWING. USE FIGURED DIMENSIONS ONLY
 - ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
 - ALL LEVELS IN METRES RELATIVE TO ORDNANCE DATUM LOCAL (ODL).
 - NO PLANT IS PERMITTED ON TOP OF THE EXISTING DUNE DEFENCE RETAINED BY THE TIMBER WALL.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF THE UNITS AND THE NEIGHBOURING TIMBER WALL DURING CONSTRUCTION.
 - PRIOR TO COMMENCING ANY CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING THE LOCATIONS, DIMENSIONS AND LEVELS OF ALL EXISTING ASSETS TO WHICH THE PROPOSED WORKS INTERFACE. ANY VARIATIONS BETWEEN ACTUAL AND THAT SHOWN ON THE DRAWINGS SHALL BE IMMEDIATELY DRAWN TO THE ATTENTION OF THE SUPERVISOR AND/OR THE DESIGNER.
 - THE CONTRACTOR IS TO VERIFY THE PRESENCE AND DETAILS OF ALL EXISTING PIPELINES AND OTHER SERVICES PRIOR TO COMMENCEMENT OF THE WORKS.
 - ALL EXISTING STRUCTURES AND PIPEWORK ETC. ARE SHOWN IN GREY, PROPOSED WORKS SHOWN IN BLACK.
 - ALL EXPOSED CONCRETE ARRISES TO HAVE 25 x 25 CHAMFER.
 - CONCRETE GRADE:

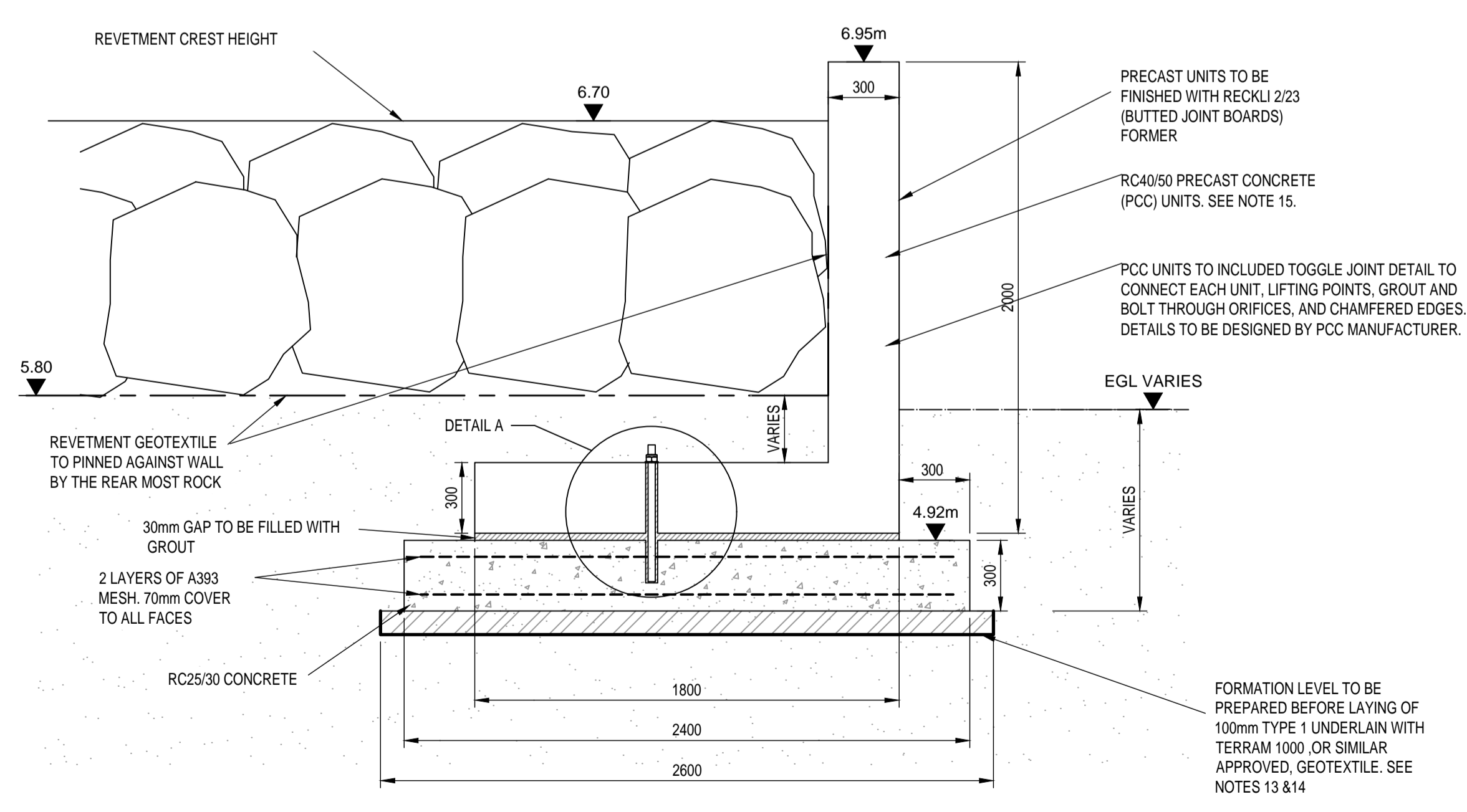
REINFORCED	SEE REINFORCEMENT DWGS.
BLINDING	GEN 3
MASS	C20/25
 - FORMWORK: BURIED SURFACES FAIR, ALL OTHER SURFACES FAIR WORKED UNLESS NOTED OTHERWISE.
 - ALL WORK IS TO COMPLY WITH REQUIREMENTS OF THE FOLLOWING SPECIFICATIONS AND STANDARDS:
 - CIVIL ENGINEERING SPECIFICATION FOR THE WATER INDUSTRY, 7th EDITION (CESWI)
 - ENVIRONMENT AGENCY MINIMUM TECHNICAL STANDARDS (EA MTR)
 - RELEVANT CLAUSES OF SPECIFICATION OF HIGHWAY WORKS (SHW)
 - RELEVANT BS/EN STANDARDS.

- LEGEND
- EXISTING GROUND LEVEL
 - REVEMENT GEOTEXTILE
 - TYPE 1 S.H.W.

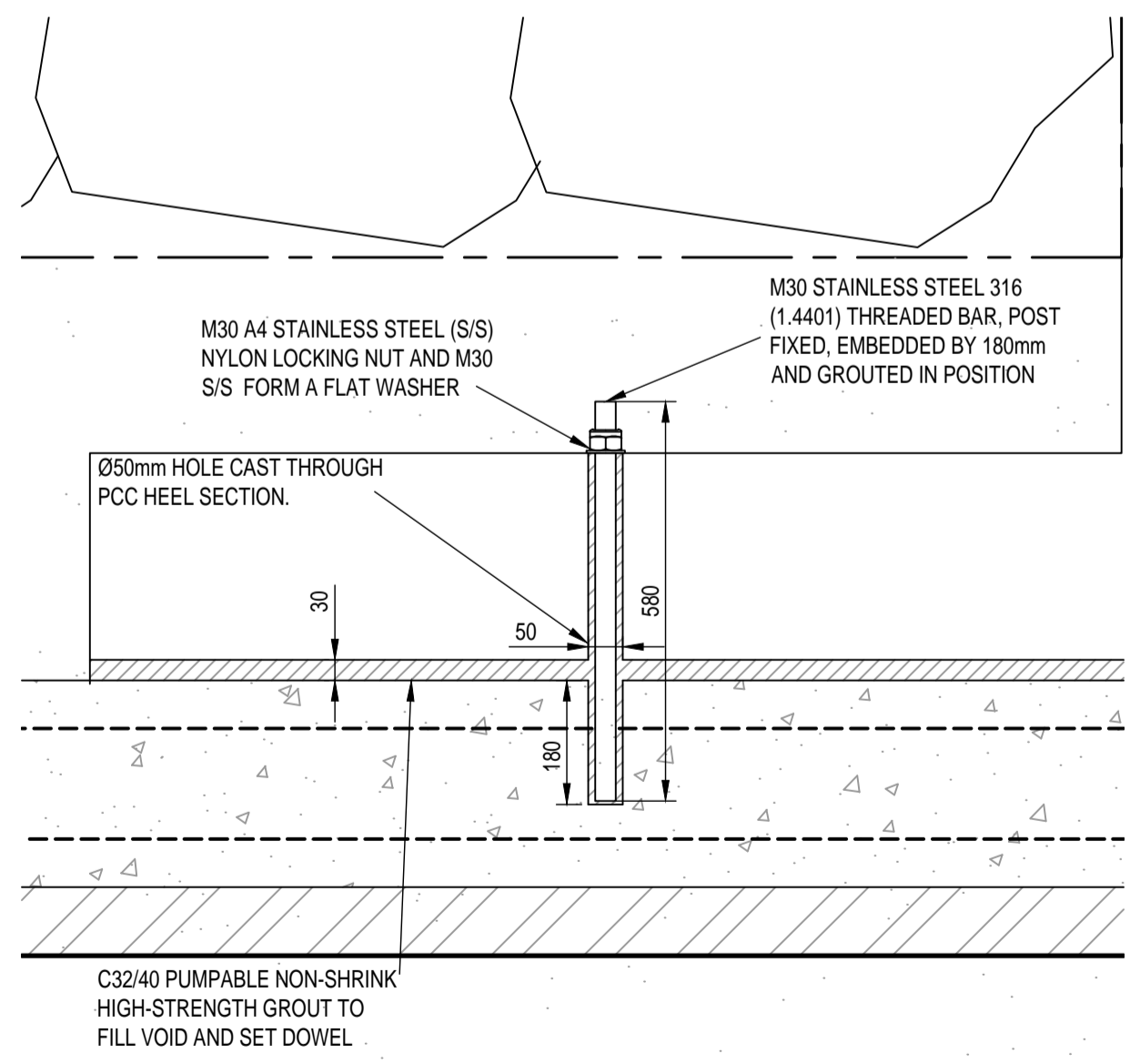


Chainage	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	11.00	12.00	13.00	14.00	15.00	16.00	17.00	18.00	19.00	20.00	21.00	22.00	23.00	24.00	25.00	26.00	27.00	28.00	29.00
Existing Levels	6.462	6.360	6.269	6.177	6.085	5.992	5.775	5.560	5.645	5.729	5.814	5.881	5.979	5.947	6.016	6.110	6.125	6.143	6.162	6.181	6.200	6.219	6.238	6.269	6.290	6.311	6.331	6.352	6.370	6.383

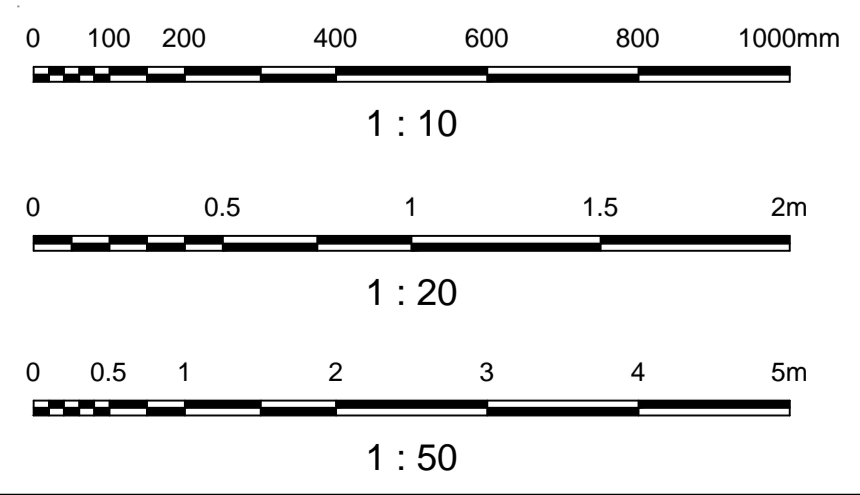
ELEVATION E
1 : 50



SECTION A
1 : 20



DETAIL A
1 : 10



Rev	Date	Description	MC	GM	PV
P1	01/NOV/19	ISSUED FOR INFORMATION			

Client
COUNCIL OF THE ISLES OF SCILLY

PROJECT:
ISLES OF SCILLY FLOOD DEFENCE AND DUNE MANAGEMENT SCHEME

Site: Isles of Scilly
Client: Council of the Isles of Scilly
Address: Town Hall, St Marys, Isles of Scilly, TR21 0LW
+44 (0)1720 424000
enquiries@scilly.gov.uk
http://www.scilly.gov.uk/

ARCADIS
Registered office: Arcadis House, 34 York Way, London, N1 9AB
Coordinating office: Unit 7, Chamberlain House, Research Way, Plymouth Science Park, Plymouth PL6 8BT
Tel: +44 (0)1752 689 000
www.arcadis.com

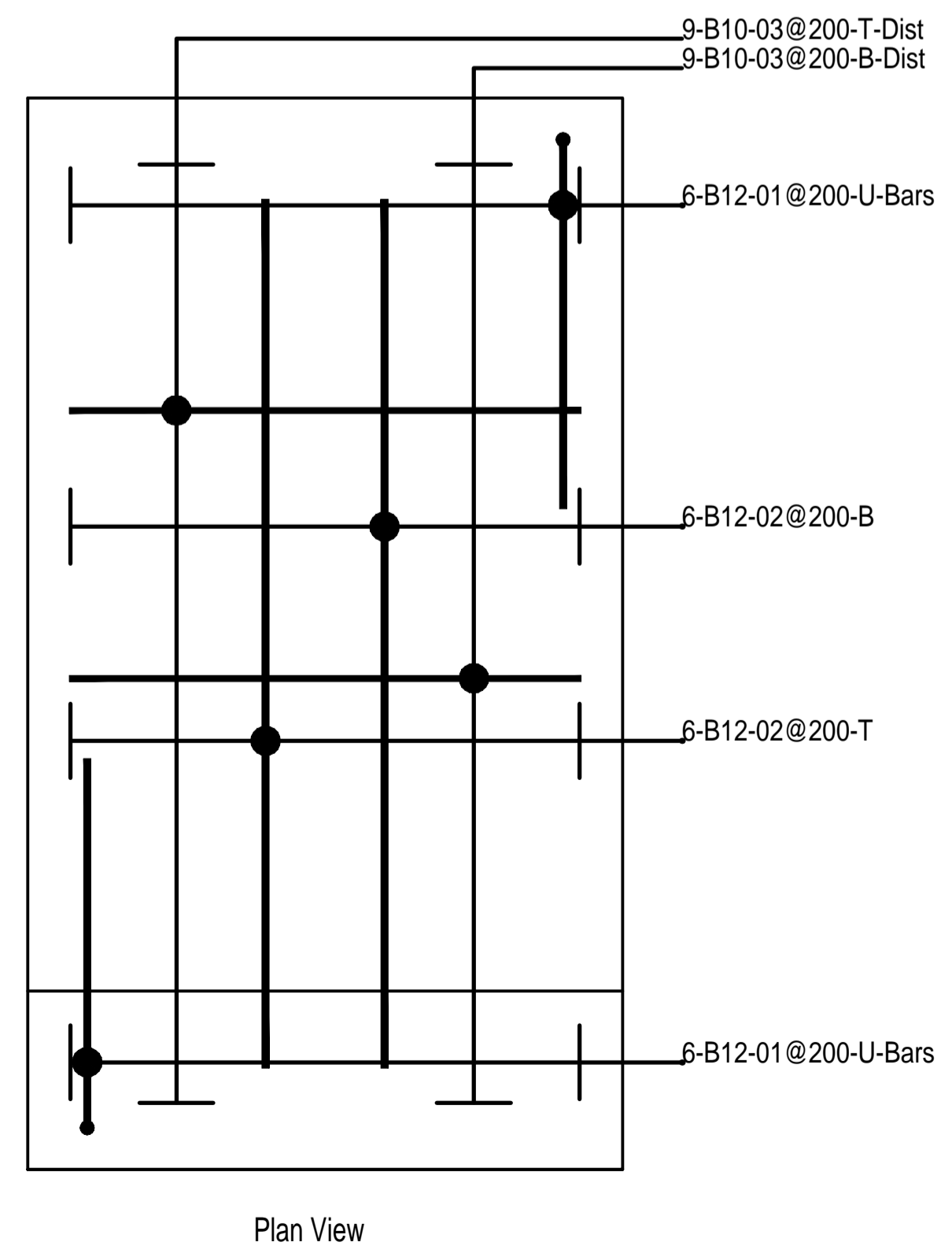
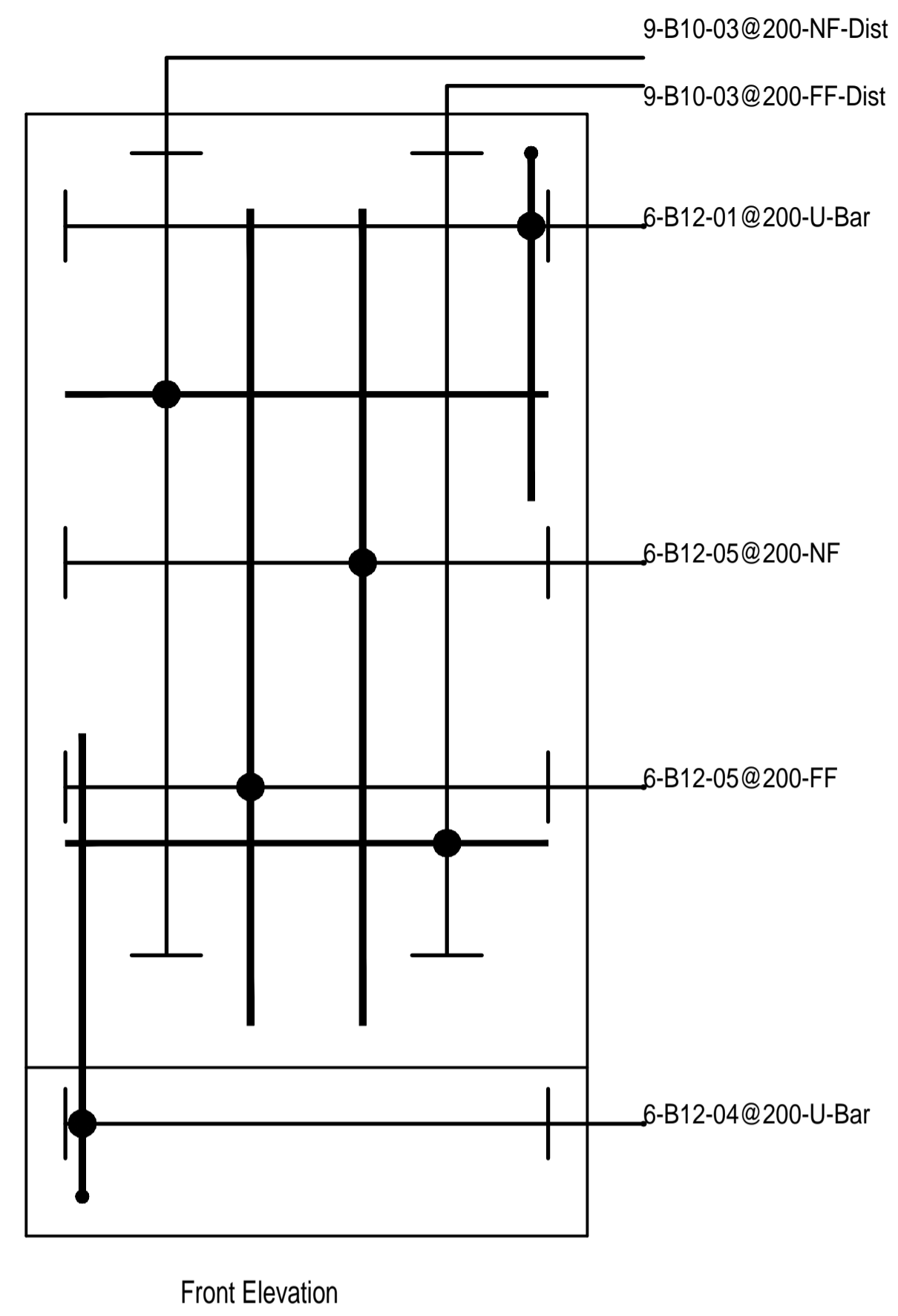
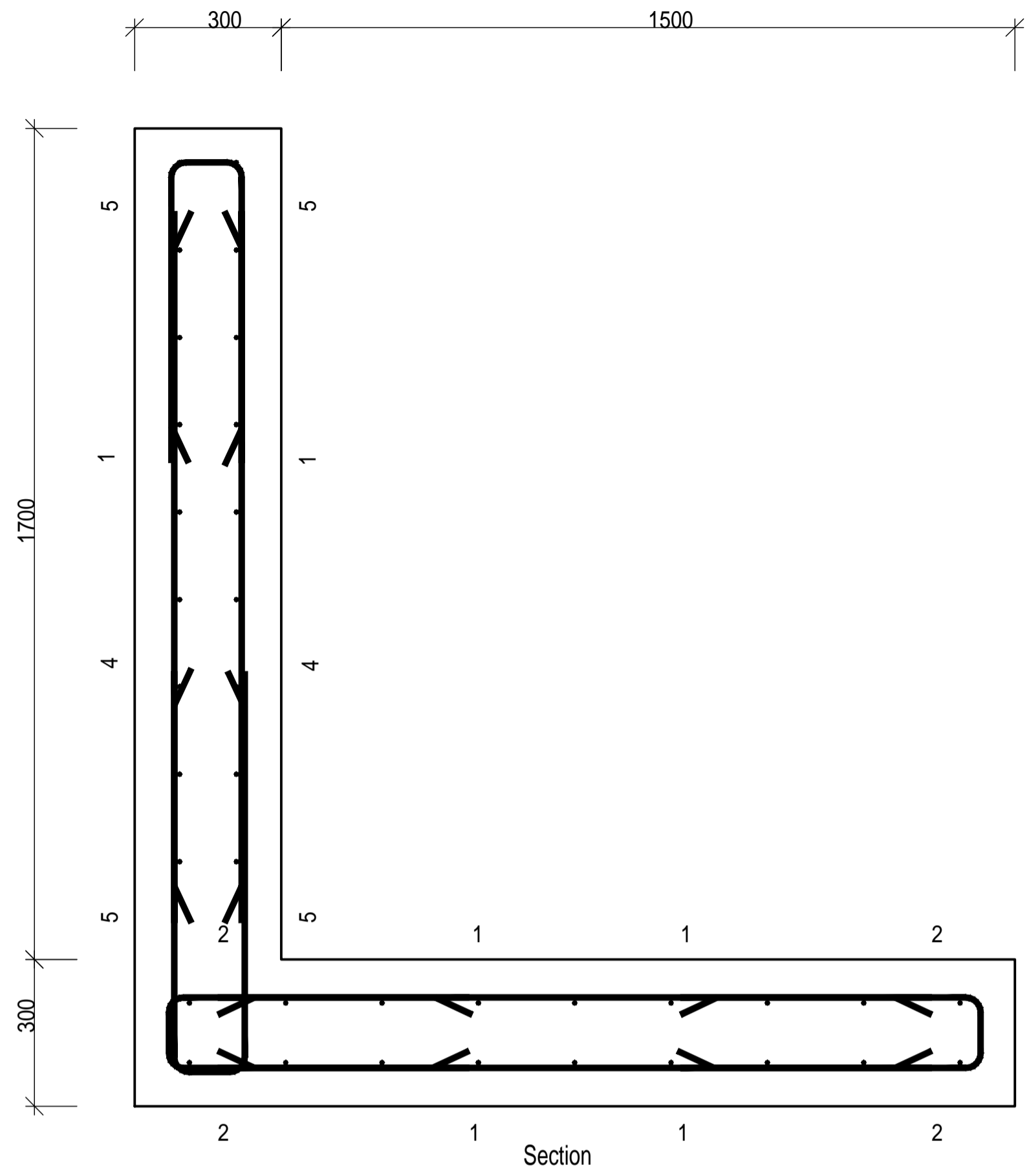
TITLE:
PORTHLOO RETAINING WALL GENERAL ARRANGEMENT

Designed	M. CLAUSEN	Signed	[Signature]	Date	01/NOV/19
Drawn	M. CLAUSEN	Signed	[Signature]	Date	01/NOV/19
Checked	G. MCDONNELL	Signed	[Signature]	Date	01/NOV/19
Approved	P. VALVONA	Signed	[Signature]	Date	01/NOV/19
Scale:	AS SHOWN	Datum:	ST.MARYS		
Original Size:	A1	Grid:	OS		
Suitability Code:	S2	Project Number:	UA008878		

Suitability Description:
ISSUED FOR INFORMATION

Drawing Number: UA008878-ARC-XX-XX-DR-CE-0230
Revision: P1

RECEIVED
By Emma Kingwell at 1:12 pm, Jun 22, 2021



- NOTES:**
- THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEERS DRAWINGS & SPECIFICATIONS.
 - CONCRETE COMPRESSIVE STRENGTH CLASS PROPOSED AS C40/50 WITH 70mm NOMINAL COVER. THESE PARAMETERS CAN BE MODIFIED IN-LINE WITH THE REQUIREMENTS OF BS6349-1-4, TABLE 2, EXPOSURE CLASS: XS1.
 - REINFORCEMENT DESIGNATED 'H' TO BE GRADE B500 CONFORMING TO BS 4449 2005.
 - MINIMUM LAPS TO REINFORCEMENT TO BE :-
H10 - 400mm
H12 - 520mm
 - ABBREVIATIONS :-
T - TOP FACE
B - BOTTOM FACE
FF - FAR FACE
NF - NEAR FACE
O/F - OUTSIDE FACE
I/F - INSIDE FACE
EF - EACH FACE
STG - STAGGERED
ABR - ALTERNATE BARS REVERSED
ALT - ALTERNATELY PLACED
 - ALL WORK IS TO COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING SPECIFICATIONS AND STANDARDS:
a) CIVIL ENGINEERING SPECIFICATION FOR THE WATER INDUSTRY, 6th EDITION, INCLUDING S.W.W. AMENDMENTS.
b) B.S. EN 206-1 INCLUDING BS. 8500 PARTS 1 - 2
c) B.S. 8007 - DESIGN OF CONCRETE STRUCTURES FOR RETAINING AQUEOUS LIQUIDS.
d) B.S. 8110 PARTS 1 - 3 - STRUCTURAL USE OF CONCRETE
e) CIRIA REPORT 91 - EARLY-AGE THERMAL CRACK CONTROL IN CONCRETE, REVISED EDITION (STRUCTURAL DESIGN AND CONSTRUCTIONAL RECOMMENDATIONS).
 - THE FOLLOWING ITEMS ARE NOT DETAILED OR SCHEDULED: CHAIRS, STOOLS, FABRIC REINFORCEMENT, DOWEL BARS, CONSTRUCTION JOINT POSITIONS ARE TO BE AGREED BETWEEN THE CONTRACTOR AND SUPERVISOR AND/OR DESIGNER. ALL KICKERS 150mm HIGH UNLESS NOTED OTHERWISE
 - REFER TO DRG. UA00887-ARC-XX-XX-DR-CE-0230 FOR DETAILS OF BOLT DOWN BARS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LIFTING, POSITIONING AND TRANSPORTATION OF THE UNITS IN THE TEMPORARY STATE.

Rev	Date	Description	Drawn	Check	Approv
P1	01/NOV/19	FOR INFORMATION	MC	GM	PV

Client
COUNCIL OF THE ISLES OF SCILLY

PROJECT:
ISLES OF SCILLY FLOOD DEFENCE AND DUNE MANAGEMENT SCHEME

Site
Isles of Scilly
Porthloo, St. Mary's

Client
Council of the Isles of Scilly
Town Hall, St. Mary's
Isles of Scilly,
TR21 0LW
+44 (0)1720 424000
enquiries@scilly.gov.uk
http://www.scilly.gov.uk/

ARCADIS Design & Consultancy for natural and built assets

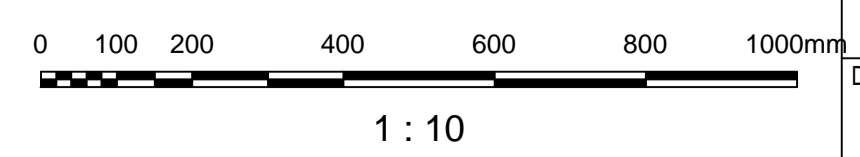
Registered office: Arcadis House, 34 York Way, London, N1 9AB
Coordinating office: Unit 7, Chamberlain House, Research Way, Plymouth Science Park, Plymouth PL6 8BT
Tel: +44 (0)1752 689 000
www.arcadis.com

TITLE:
PORTHLOO RETAINING WALL REINFORCEMENT DETAILS

Designed	M. CLAUSEN	Signed	[Signature]	Date	01/NOV/19
Drawn	M. CLAUSEN	Signed	[Signature]	Date	01/NOV/19
Checked	G. MCDONNELL	Signed	[Signature]	Date	01/NOV/19
Approved	P. VALVONA	Signed	PV	Date	01/NOV/19
Scale:	1:10	Datum:	ST.MARYS		
Original Size:	A1	Grid:	OS		
Suitability Code:	S2	Project Number:	UA008878		

Suitability Description:
ISSUED FOR INFORMATION

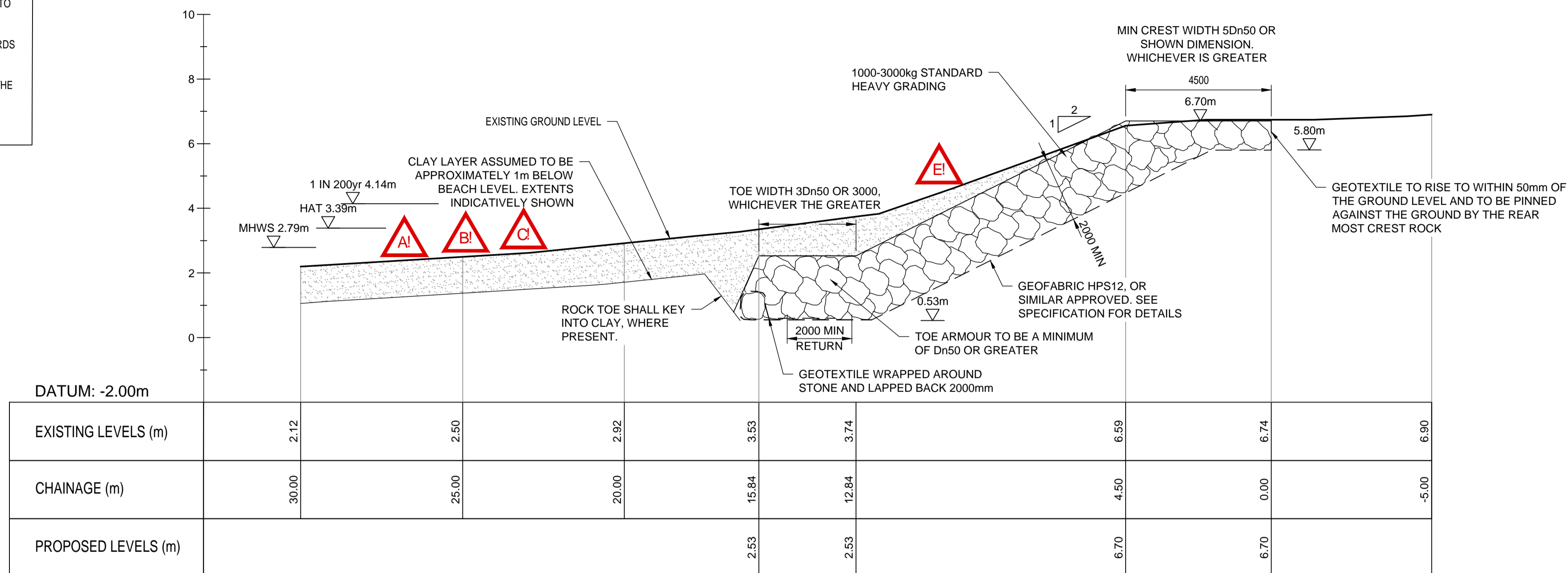
Drawing Number: UA008878-ARC-XX-XX-DR-CE-0231
Revision: P1



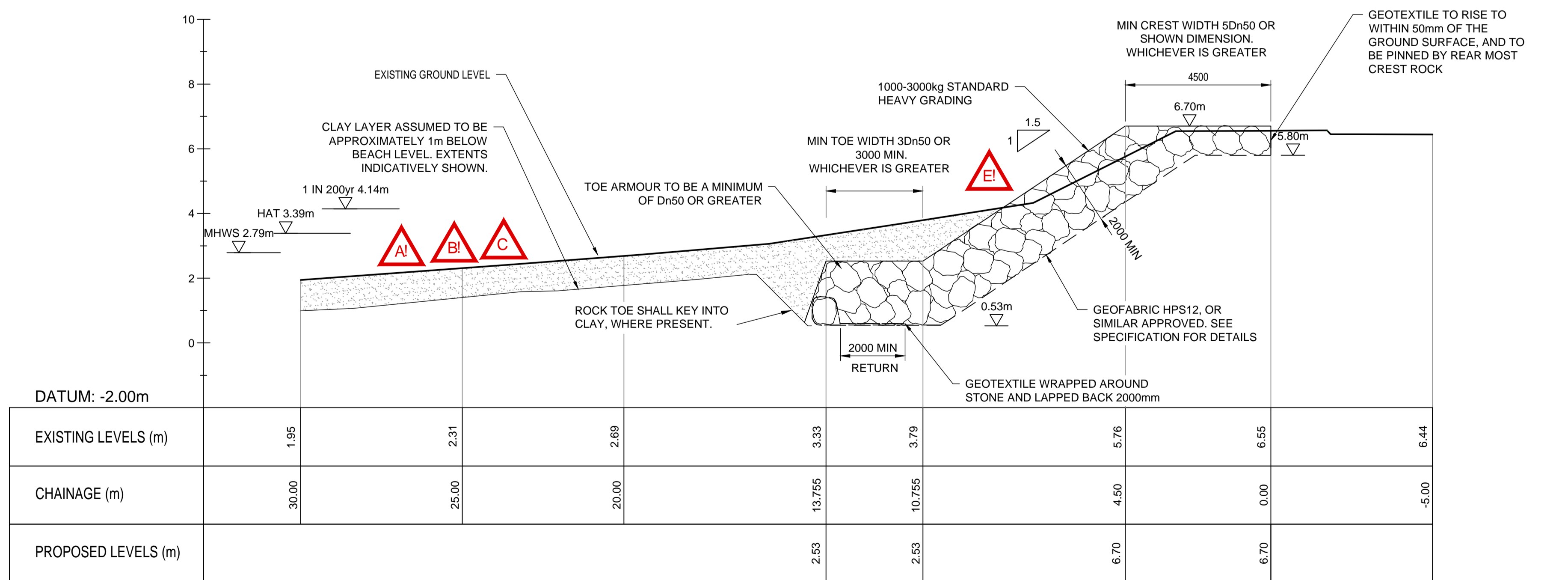
HAZARD WARNINGS



- A! WORKING ADJACENT TO WATER
 - B! SOFT & UNSTABLE GROUND
 - C! PUBLIC BEACH
 - D! SERVICES- EXISTING OUTFALL
 - E! UNSTABLE ROCK ARMOUR
 - F! PORTHLOO SSSI
- FOR MORE DETAILED INFORMATION PLEASE REFER TO THE DESIGNERS H&S HAZARD RECORD.
- EVERYDAY OR LOW RISK HAZARDS HAVE NOT BEEN INDICATED ON THIS DRAWING, NEITHER HAVE HAZARDS THAT SHOULD BE OBVIOUS TO A COMPETENT CONTRACTOR.
- SHOULD ANY ADDITIONAL HAZARDS BE IDENTIFIED THE CONTRACTOR SHOULD NOTIFY ALL THE RELEVANT PROJECT TEAM MEMBERS.



SECTION A
1 : 100



SECTION B
1 : 100

- NOTES:**
1. CONTRACTOR TO CONFIRM EXTENTS OF WORKS ONSITE.
 2. TOPOGRAPHIC DATA TAKEN FROM BENCHMARK SURVEYS, SURVEY UNDERTAKEN FEB 2017 DRAWING No. BS244302.17/02/DW
 3. DO NOT SCALE FROM THIS DRAWING, USE FIGURED DIMENSIONS ONLY
 4. ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
 5. ALL LEVELS IN METRES RELATIVE TO ORDANCE DATUM LOCAL (ODL).
 6. Dn50 VALUE EQUALS 900mm
 7. TIDE INFORMATION RELATIVE TO ODL:
HAT 3.39m
MHWS 2.79m
MHW 1.39m
MLWN -0.91m
MLWS -2.21m
 8. 1 IN 200 YEAR JOINT PROBABILITY STILL WATER LEVEL RELATIVE TO ODL:
SWL 4.14M

LEGEND:

Rev	Date	Description	Drawn	Check	Approv
P5	01NOV19	DRAWING AMENDMENTS	MC	GM	PV
P4	10APR19	DRAWING AMENDMENTS	GM	MC	IC
P3	03OCT17	DRAWING & NOTES AMENDMENTS	GM	MC	IC
P2	04AUG17	HARDWOOD FENCING REPLACED	GM	PV	PV
P1	02AUG17	FOR INFORMATION	EB	PV	PV

Client
COUNCIL OF THE ISLES OF SCILLY

PROJECT:
ISLES OF SCILLY FLOOD DEFENCE AND DUNE MANAGEMENT SCHEME

Site
Isles of Scilly Porthloo

Client
Council of the Isles of Scilly
Town Hall
St Marys, Isles of Scilly, TR21 0LW
+44 (0)1720 424000
enquiries@scilly.gov.uk
http://www.scilly.gov.uk/

ARCADIS Design & Consultancy

Registered office:
Arcadis House
34 York Way
London
N1 9AB

Coordinating office:
Unit 7, Chamberlain House,
Research Way, Plymouth Science Park,
Plymouth PL6 8BT
Tel: +44 (0)1752 689 000

www.arcadis.com

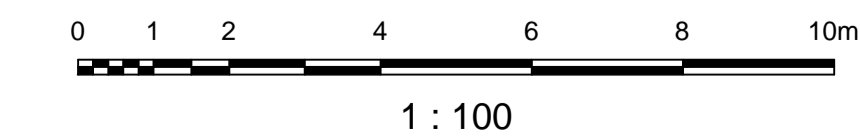
TITLE:
PORTHLOO CROSS SECTIONS SHEET 1

Designed	G.MCDONNELL	Signed	<i>G.McDonnell</i>	Date	02AUG17
Drawn	G.MCDONNELL	Signed	<i>G.McDonnell</i>	Date	02AUG17
Checked	M.CLAUSEN	Signed	<i>M.Clausen</i>	Date	02AUG17
Approved	I.COOKIE	Signed	<i>I.Cooke</i>	Date	02AUG17
Scale:	1:100	Datum:	ST.MARYS		
Original Size:	A1	Grid:	OS		
Suitability Code:	S2	Project Number:	UA008878		

Suitability Description:
ISSUED FOR INFORMATION

Drawing Number:
UA008878-ARC-XX-XX-DR-CE-0221

Revision:
P5

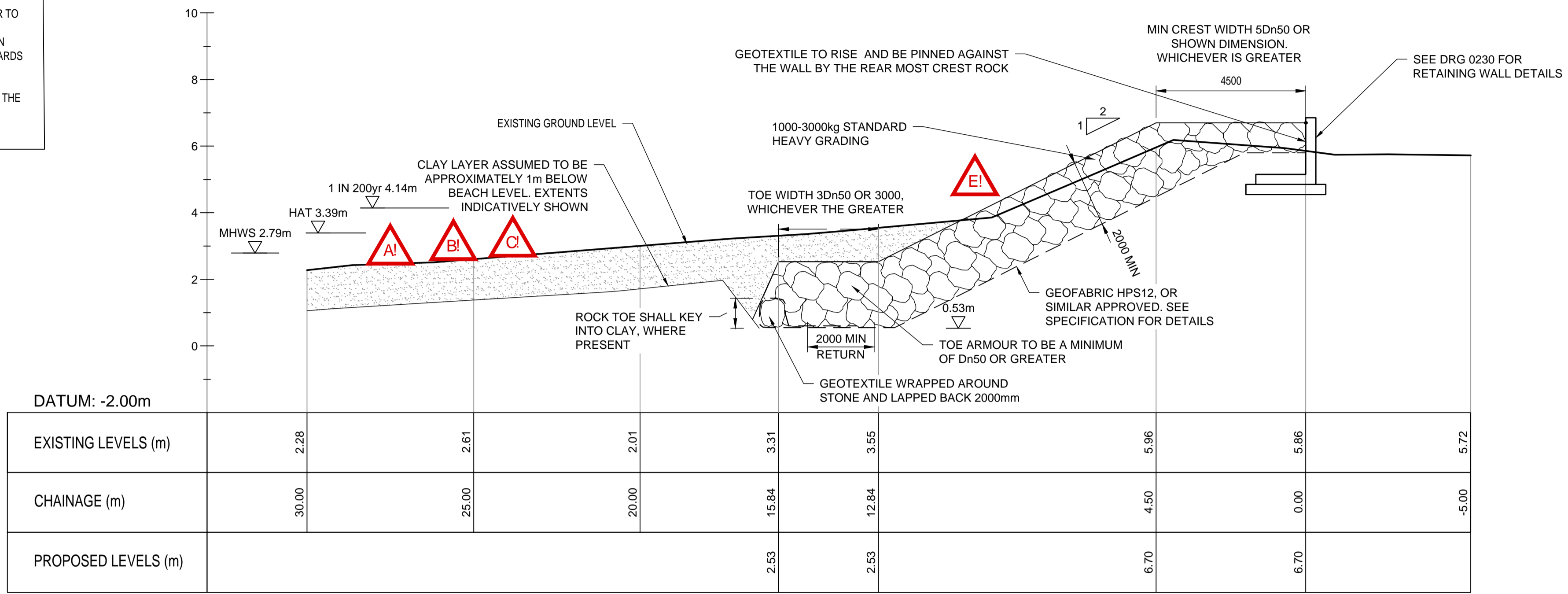


HAZARD WARNINGS

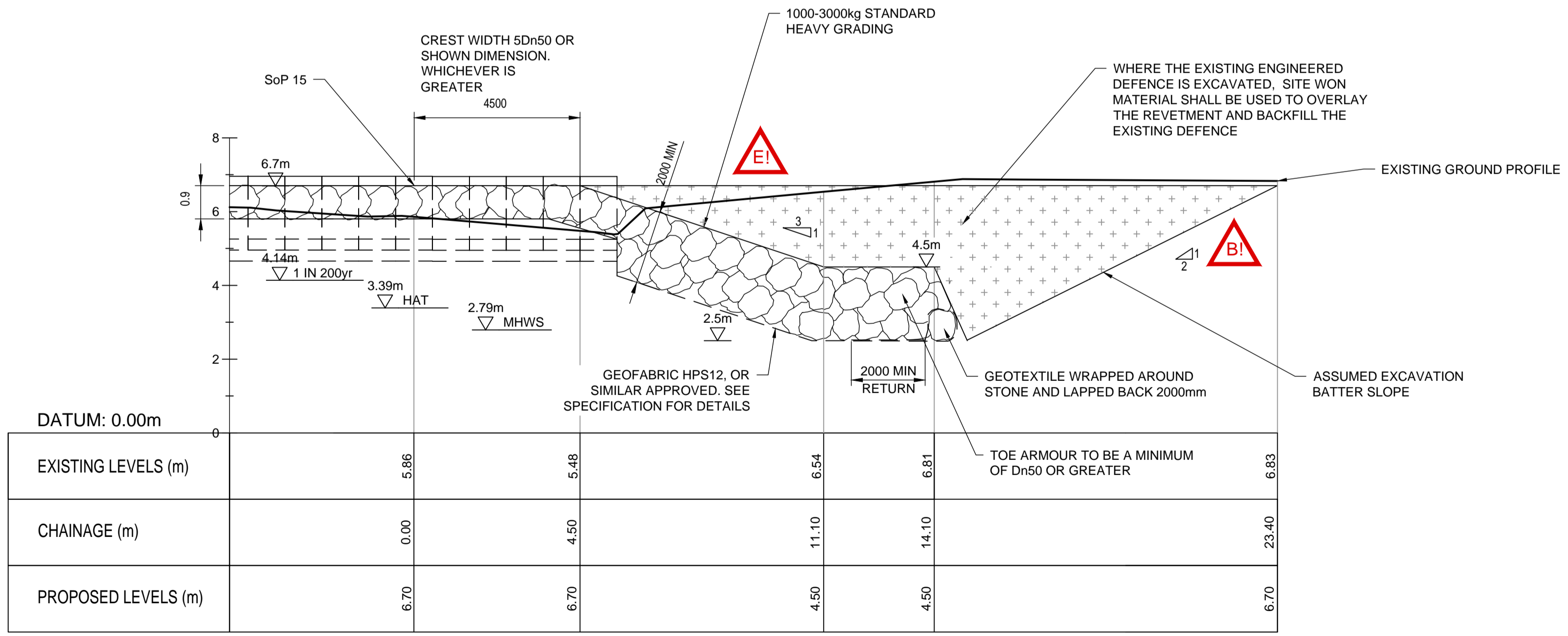


- A! WORKING ADJACENT TO WATER
 - B! SOFT & UNSTABLE GROUND
 - C! PUBLIC BEACH
 - D! SERVICES- EXISTING OUTFALL
 - E! UNSTABLE ROCK ARMOUR
 - F! PORTHLOO SSSI
- FOR MORE DETAILED INFORMATION PLEASE REFER TO THE DESIGNERS H&S HAZARD RECORD.
- EVERYDAY OR LOW RISK HAZARDS HAVE NOT BEEN INDICATED ON THIS DRAWING. NEITHER HAVE HAZARDS THAT SHOULD BE OBVIOUS TO A COMPETENT CONTRACTOR.
- SHOULD ANY ADDITIONAL HAZARDS BE IDENTIFIED THE CONTRACTOR SHOULD NOTIFY ALL THE RELEVANT PROJECT TEAM MEMBERS.

RECEIVED
By Emma Kingwell at 1:13 pm, Jun 22, 2021



SECTION C
1 : 100



SECTION D
1 : 100

- NOTES:**
- CONTRACTOR TO CONFIRM EXTENTS OF WORKS ONSITE.
 - TOPOGRAPHIC DATA TAKEN FROM BENCHMARK SURVEYS, SURVEY UNDERTAKEN FEB 2017 DRAWING No. BS244302.17/02/DW
 - DO NOT SCALE FROM THIS DRAWING, USE FIGURED DIMENSIONS ONLY
 - ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE.
 - ALL LEVELS IN METRES RELATIVE TO ORDNANCE DATUM LOCAL (ODL).
 - TIDE INFORMATION RELATIVE TO ODL:
HAT 3.39m
MHWS 2.79m
MHW 1.39m
MLWN -0.91m
MLWS -2.21m
 - 1 IN 200 YEAR JOINT PROBABILITY STILL WATER LEVEL RELATIVE TO ODL:
SWL 4.14M

LEGEND:

Rev	Date	Description	Drawn	Check	Approv
P5	01NOV19	DRAWING AMENDMENTS	MC	GM	PV
P4	10APR19	DRAWING AMENDMENTS	GM	MC	IC
P3	03OCT17	DRAWING & NOTE AMENDMENTS	GM	MC	IC
P2	04AUG17	HARDWOOD FENCING REPLACED	GM	PV	PV
P1	02AUG17	FOR INFORMATION	EB	PV	PV

Client
COUNCIL OF THE ISLES OF SCILLY

PROJECT:
ISLES OF SCILLY FLOOD DEFENCE AND DUNE MANAGEMENT SCHEME

Site
Isles of Scilly
Porthloo

Client
Council of the Isles of Scilly
Town Hall
St Marys, Isles of Scilly, TR21 0LW
+44 (0)1720 424000
enquiries@scilly.gov.uk
http://www.scilly.gov.uk/

ARCADIS Design & Consultancy
For detailed and best results

Registered office:
Arcadis House
34 York Way
London
N1 9AB

Coordinating office:
Unit 7, Chamberlain House, Research Way
Plymouth Science Park,
Plymouth, PL6 8BT
Tel: +44 (0)1752 689 000

www.arcadis.com

TITLE:
PORTHLOO CROSS SECTIONS SHEET 2

Designed	G.MCDONNELL	Signed	<i>G.McDonnell</i>	Date	02AUG17
Drawn	G.MCDONNELL	Signed	<i>G.McDonnell</i>	Date	02AUG17
Checked	M.CLAUSEN	Signed	<i>M.Clausen</i>	Date	02AUG17
Approved	I.COOKIE	Signed	<i>I.Cooke</i>	Date	02AUG17
Scale:	1:100	Datum:	ST.MARYS		
Original Size:	A1	Grid:	OS		
Suitability Code:	S2	Project Number:	UA008878		

ISSUED FOR INFORMATION

Drawing Number: UA008878-ARC-XX-XX-DR-CE-0222
Revision: P5

