



Fair Isle Harbour Improvement Works

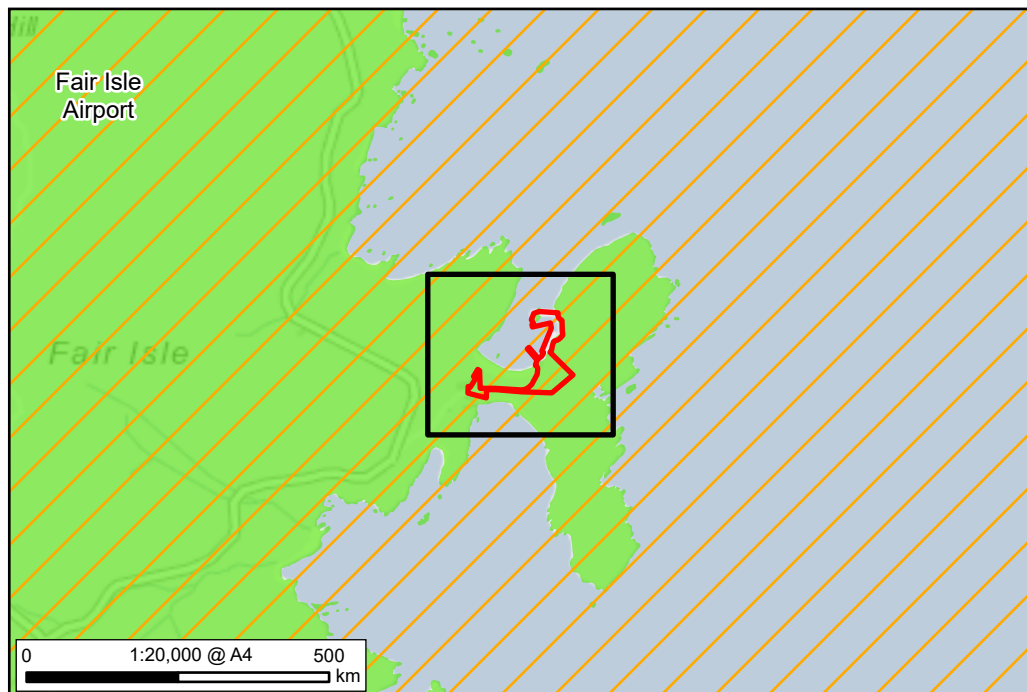
A.1 Planning drawings

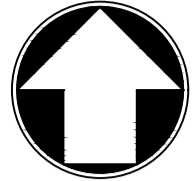
On behalf of **Shetland Isle Council (SIC)**



Project Ref: 11168 | Rev: Version 1.0 | Date: April 2023

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Plan
Scale - 1:500

- Notes
1. All levels are in metres above Chart Datum (mACD).
 2. All dimensions are in metres unless otherwise noted.
 3. Chart Datum is 0.92m below Ordnance Datum.
 4. MHS: +2.2 CD
 - MHW: +1.7 CD
 - MLWN: +1.0 CD
 - MLWS: +0.6 CD

Key to symbols

- New Linkspan and Quay Extension Structures
- Red Line Boundary of Terrestrial Works

Reference drawings

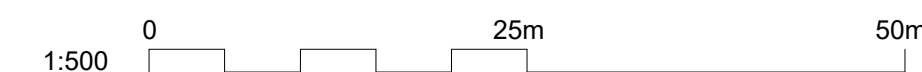
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P01	07/09/21	BR	For Information	CO	MR

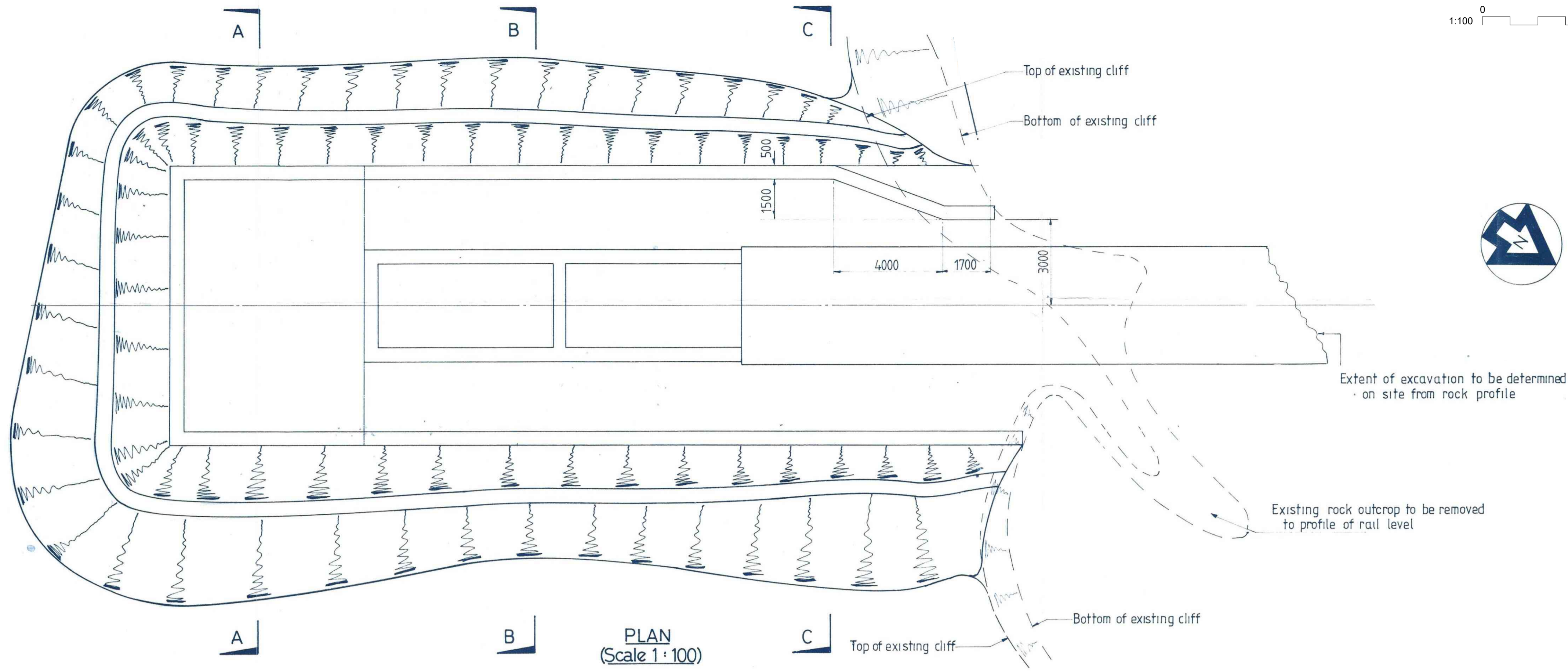
<p>M MOTT MACDONALD</p>	<p>St Vincent Plaza 319 St Vincent Street Glasgow, G2 5LD United Kingdom</p> <p>T +44 (0)141 222 4500 F +44 (0)141 221 2048 W mottmac.com</p>
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Client
 Shetland Islands Council
 8 North Ness Business Park
 Lerwick
 Shetland
 ZE1 0LZ

Title
 Shetland Inter Island
 Transport BC Support
 Fair Isle Ferry Terminal
 Red Line Boundary

Designed	B Radcliffe	BR	Eng check	C Ohi	CO
Drawn	B Radcliffe	BR	Coordination	C Ohi	CO
Dwg check	C Ohi	CO	Approved	M Ross	MR
Scale at A1	Status	Rev	Security		
As Shown	PRE	P01	STD		
Drawing Number			418429-MMD-FI-ZZ-DR-C-1101		

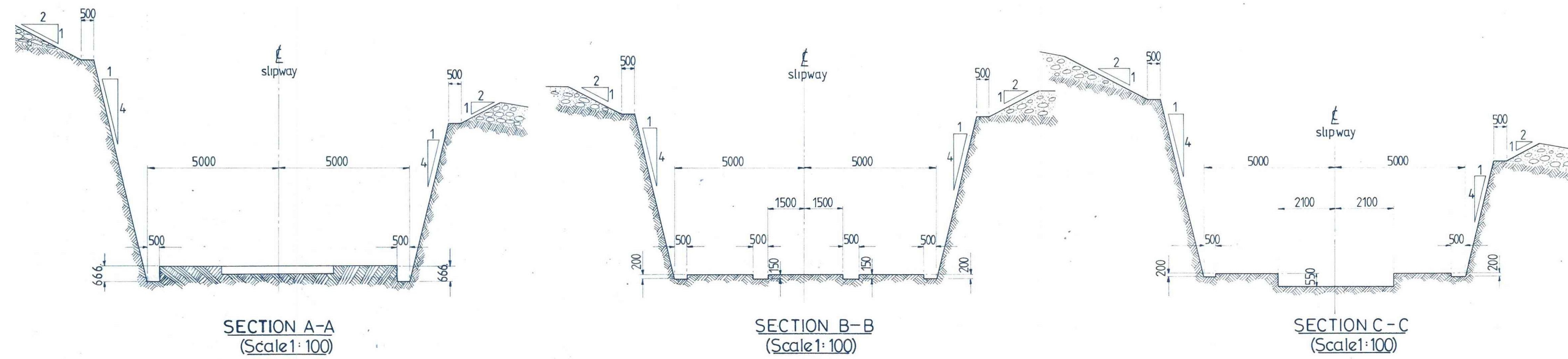
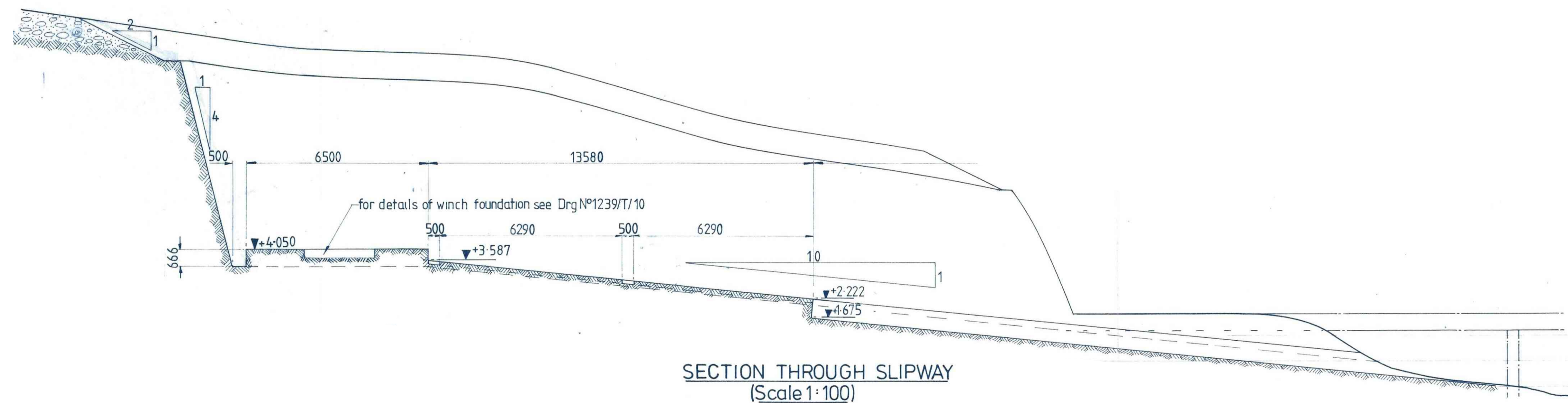




- Notes
1. All levels are in metres above Chart Datum (mACD).
 2. All dimensions are in metres unless otherwise noted.
 3. Chart Datum is 0.92m below Ordnance Datum.

Key to symbols

Reference drawings



P01	10/05/23		For Information	RC	
Rev	Date	Drawn	Description	Ch'k'd	App'd

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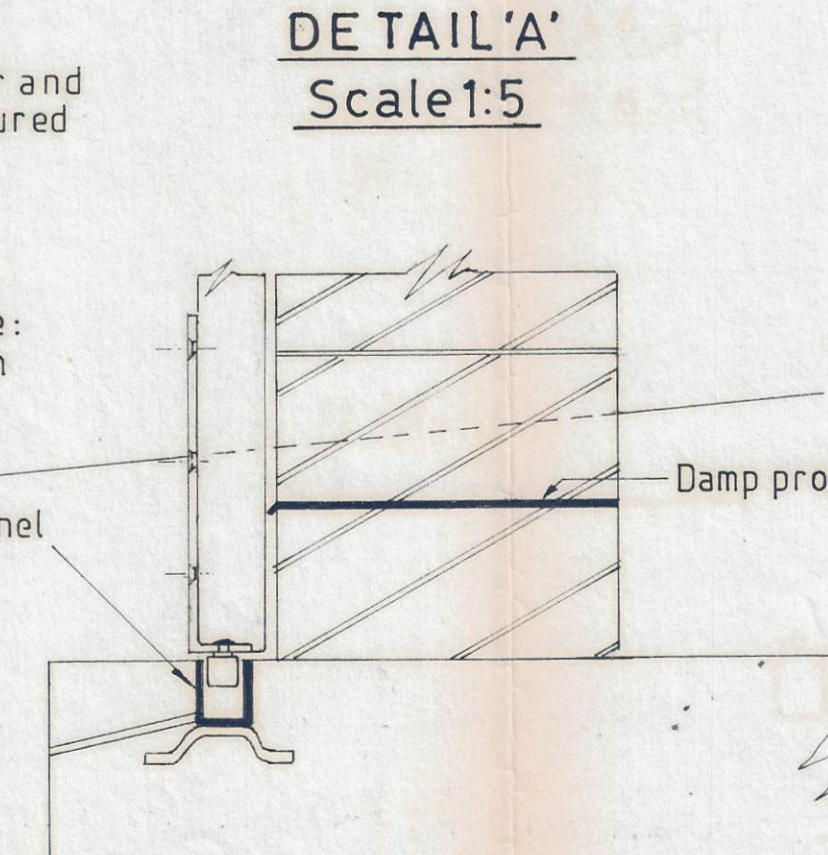
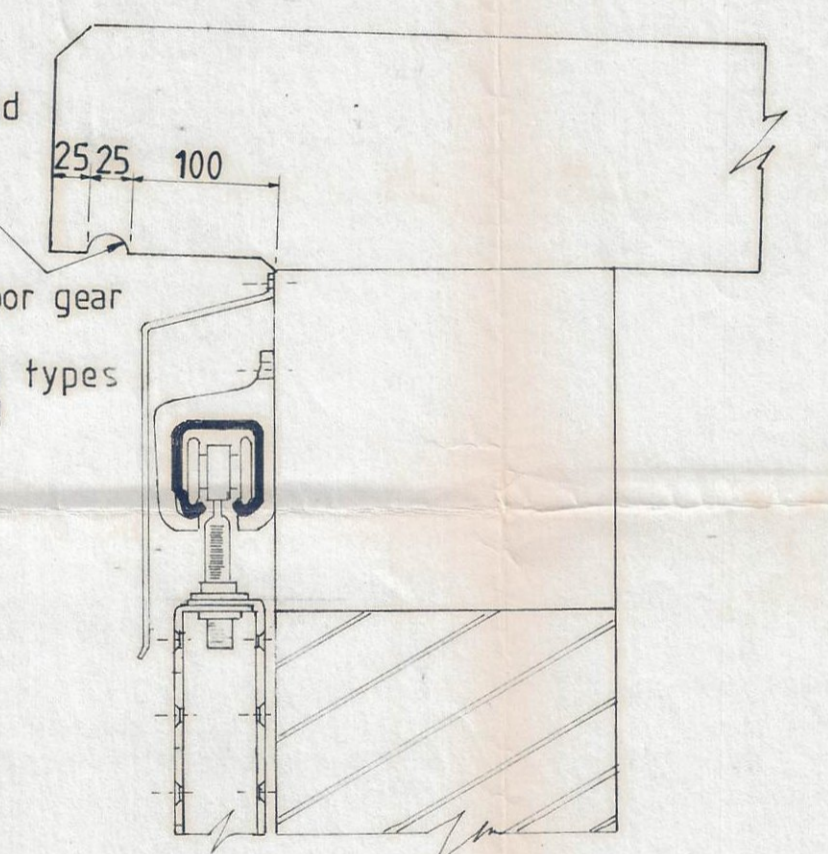
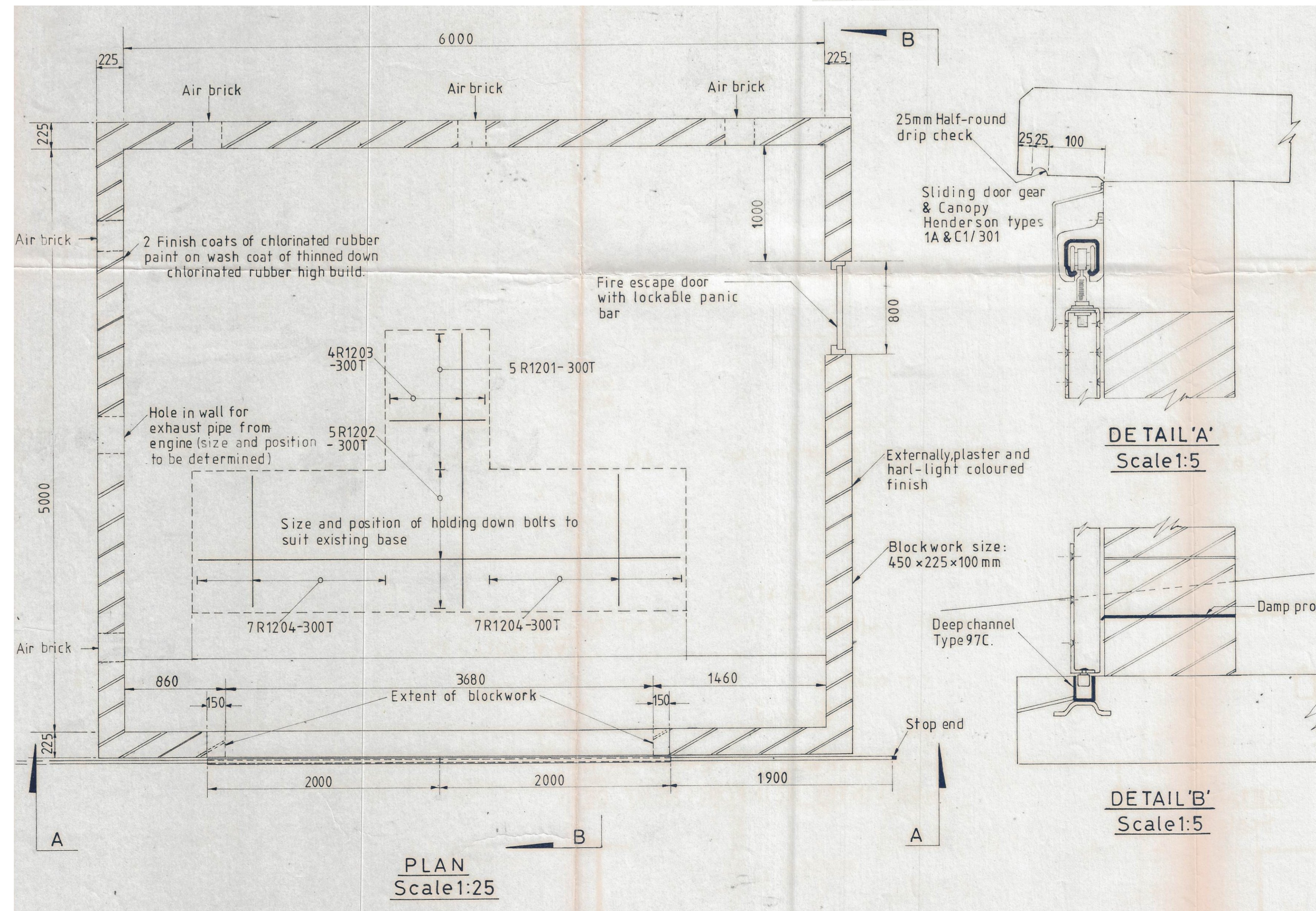
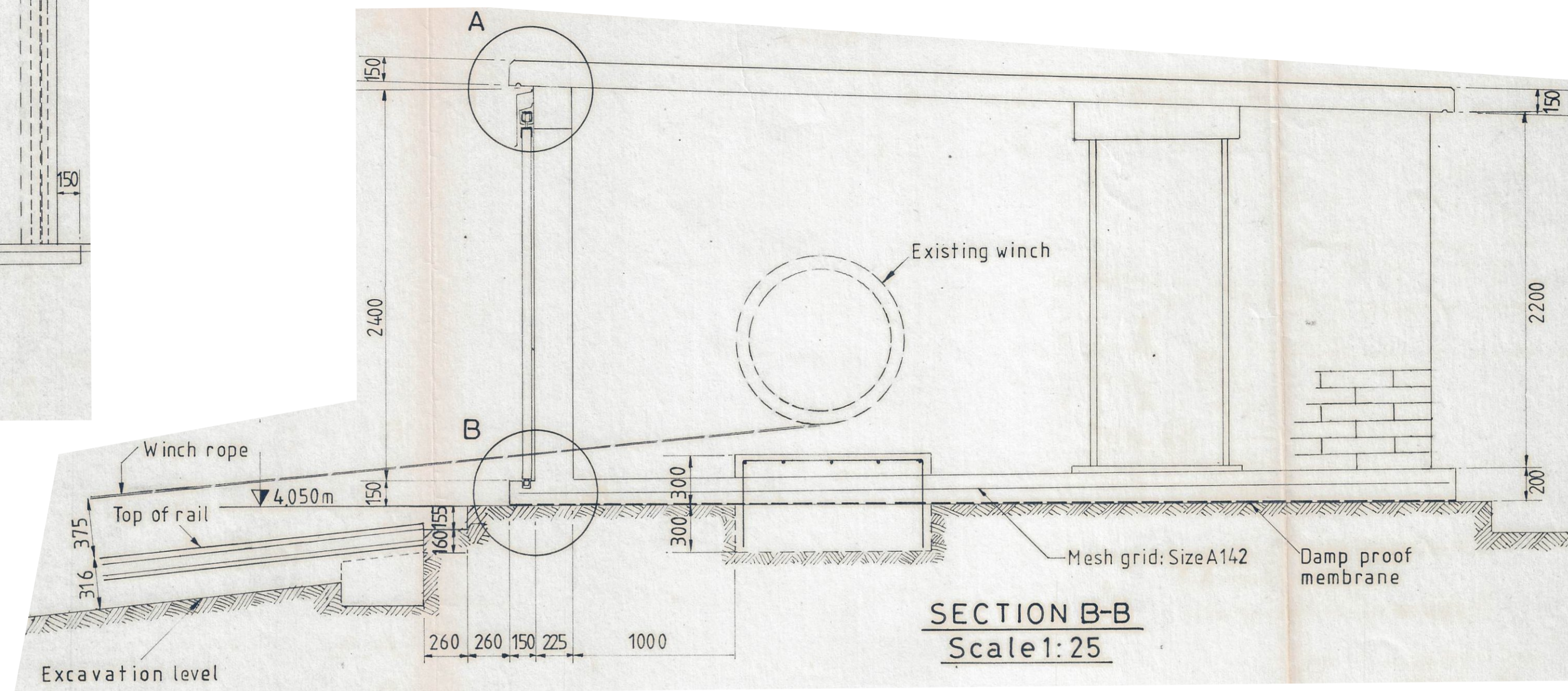
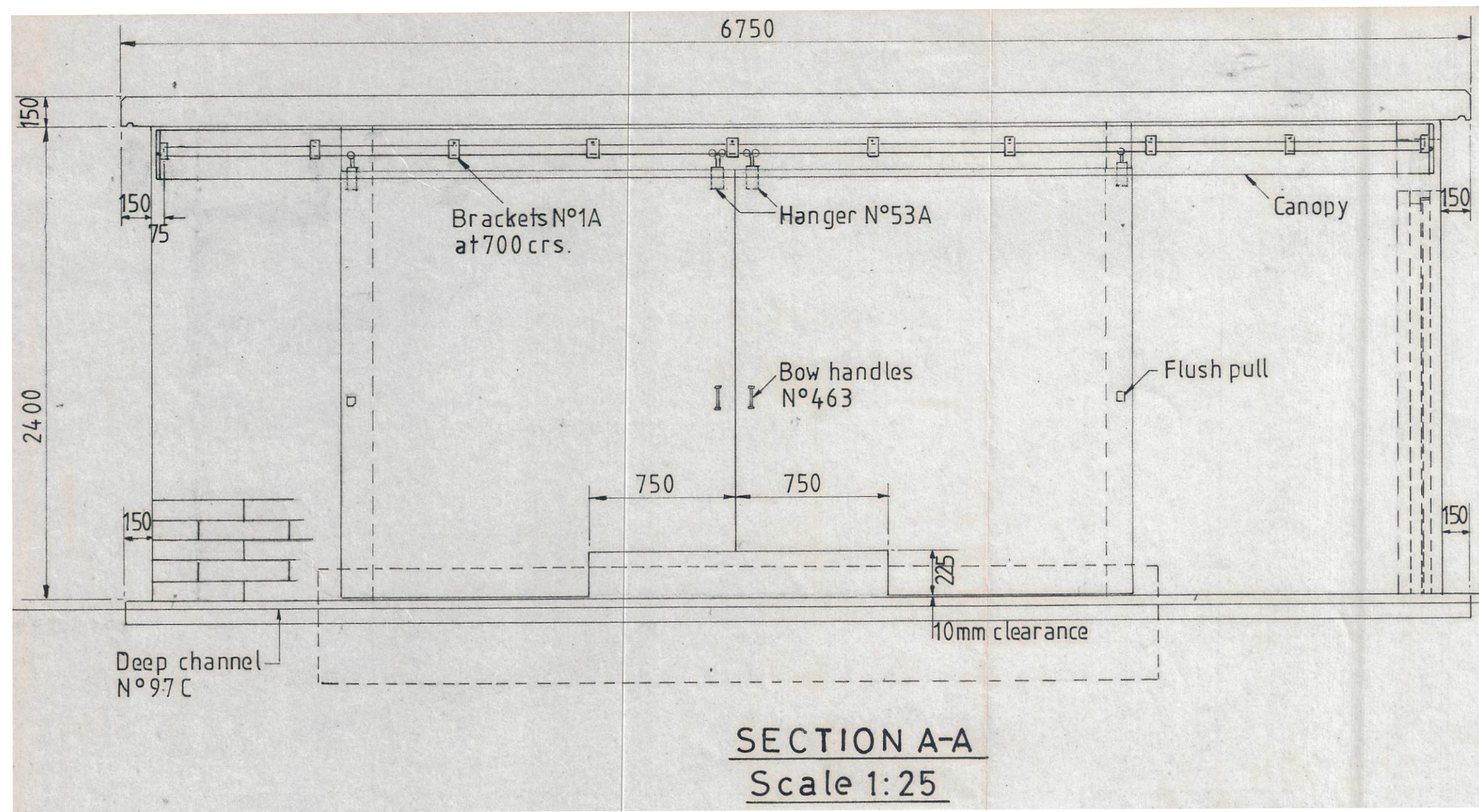
Client
Shetland Islands Council
8 North Ness Business Park
Lerwick
Shetland
ZE1 0LZ

Title
Fair Isle and Grutness
Outline Design
Fair Isle Ferry Terminal
Existing Noost Plan and Sections

Designed	Archive drawing	Eng check	R Crewe	RC
Drawn	Archive drawing	Coordination		
Dwg check	Archive drawing	Approved		
Scale at A1	Status	Rev	Security	
As Shown	PRE	P01	STD	

Drawing Number
418429-MMD-FI-ZZ-DR-C-0002

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Notes
 1. All levels are in metres above Chart Datum (mACD).
 2. All dimensions are in metres unless otherwise noted.
 3. Chart Datum is 0.92m below Ordnance Datum.

Key to symbols

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P01	10/05/23		For Information	RC	

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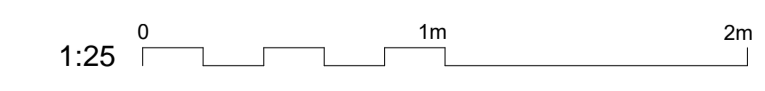
Client
Shetland Islands Council
 8 North Ness Business Park
 Lerwick
 Shetland
 ZE1 0LZ

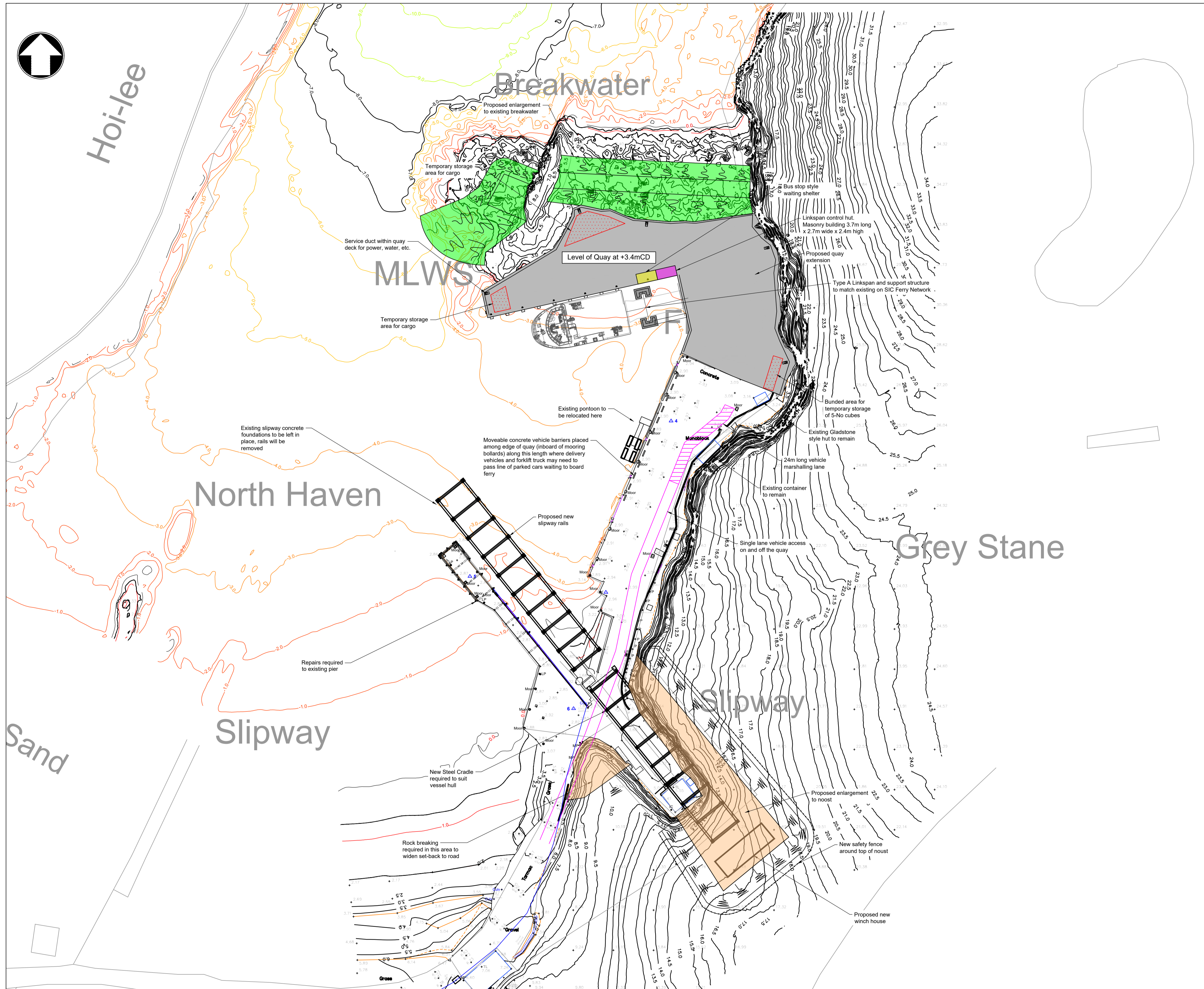
Title
Fair Isle and Grutness
 Outline Design
 Fair Isle Ferry Terminal
 Existing Winch House Plans and Sections

Designed	Archive drawing	Eng check	R Crewe	RC
Drawn	Archive drawing	Coordination		
Dwg check	Archive drawing	Approved		
Scale at A1	Status	Rev	Security	
As Shown	PRE	P01	STD	

Drawing Number
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Notes

1. All levels are in metres above Chart Datum (mACD).
2. All dimensions are in metres unless otherwise noted.
3. Chart Datum is 0.92m below Ordnance Datum.
4. MHWS: +2.2 CD
- MHWN: +1.7 CD
- MLWN: +1.0 CD
- MLWS: +0.6 CD

Key to symbols

- Breakwater Enlargement
- Vehicle Access Lane
- Vehicle Marshalling Lane
- New Linkspan and Quay Extension Structures
- New Linkspan and Quay Extension Structures
- Approximate position of buried BT fuel line, to be temporarily relocated during the enlargement of the noust. The line will need to be exposed and moved or disconnected during the works to avoid accidental damage to it. Final reinstatement position to be agreed with BT.

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P01	20.12.22	RK	For Information	RC	MR

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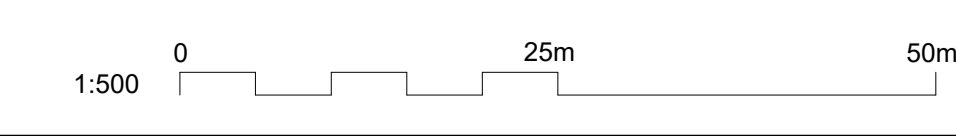
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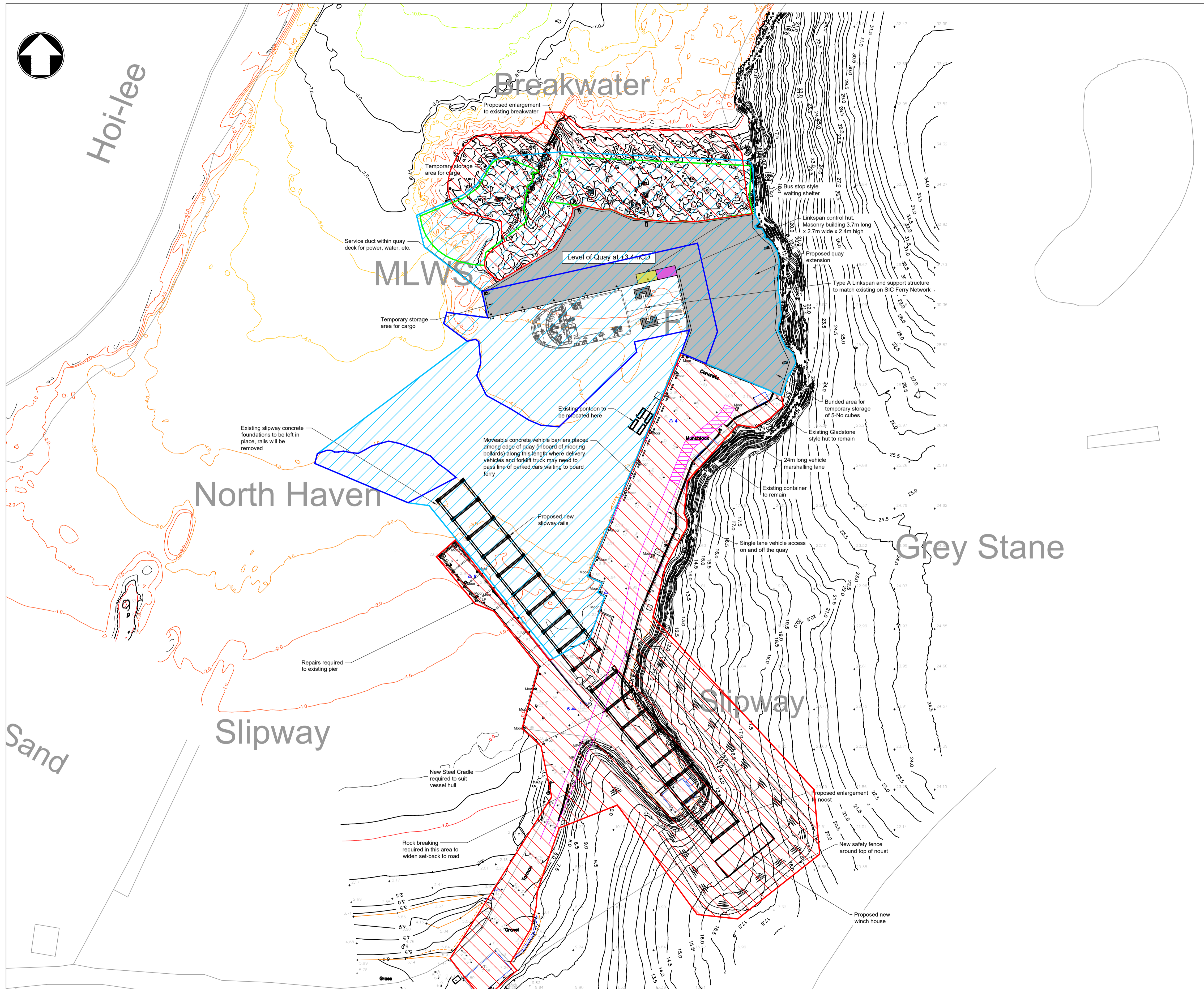
Client
Shetland Islands Council
8 North Ness Business Park
Lerwick
Shetland
ZE1 0LZ

Title
Fair Isle and Grutness
Outline Design
Fair Isle Ferry Terminal
Proposed Redevelopment Overview

Designed	B Radcliffe	BR	Eng check	R Crewe	RC
Drawn	R Kilgour	RK	Coordination	M Cairns	MC
Dwg check	R Crewe	RC	Approved	M Ross	MR
Scale at A1	Status	Rev	Security		
As Shown	PRE	P01	STD		

Drawing Number
418429-MMD-FI-ZZ-DR-C-1000





Notes

1. All levels are in metres above Chart Datum (mACD).
2. All dimensions are in metres unless otherwise noted.
3. Chart Datum is 0.92m below Ordnance Datum.
4. MHWS: +2.2 CD
- MHWN: +1.7 CD
- MLWN: +1.0 CD
- MLWS: +0.6 CD

Key to symbols

- New Linkspan and Quay Extension Structures
- Vehicle Access Lane
- Rock Armour Revetment
- Indicative Dredging Areas
- Marine Works
- Terrestrial Works

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P01	20.12.22	RK	For Information	RC	MR

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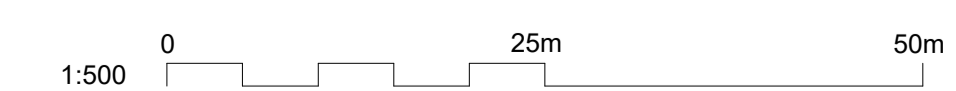
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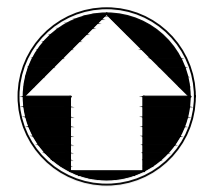
Client
Shetland Islands Council
8 North Ness Business Park
Lerwick
Shetland
ZE1 0LZ

Title
**Fair Isle and Grutness
Outline Design
Fair Isle Ferry Terminal
Proposed Redevelopment Overview**

Designed	B Radcliffe	BR	Eng check	R Crewe	RC
Drawn	R Kilgour	RK	Coordination	M Cairns	MC
Dwg check	R Crewe	RC	Approved	M Ross	MR
Scale at A1	Status	Rev	Security		
As Shown	PRE	P01	STD		

Drawing Number
418429-MMD-FI-ZZ-DR-C-1100





Notes

Key to symbols

- Area Leased from Crown Estate
- Area owned by Shetland Islands Council
- Harbour Limit
- Scheduled Monument plus 5m perimeter

Reference drawings

P01	08/11/21	RK	For Information	MC	MR
Rev	Date	Drawn	Description	Ch'k'd	App'd

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Client
Shetland Islands Council
8 North Ness Business Park
Lerwick
Shetland
ZE1 0LZ

Title
**Shetland Inter Island
Transport BC Support
Fair Isle Ferry Terminal
Land Ownership**

Designed	M Cairns	MC	Eng check	C Ohi	CO
Drawn	R Kilgour	RK	Coordination	M Cairns	MC
Dwg check	C Ohi	CO	Approved	M Ross	MR
Scale at A1	1:1000	Status	PRE	Rev	P01
		Security			STD

Drawing Number
418429-MMD-FI-FI-SK-C-XXXX


Notes

- All levels are in metres above Ordinance Datum (mAOD).
- All dimensions are in metres unless otherwise noted.

Key to symbols

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P01	14.12.22	RK	For Information	RC	MR

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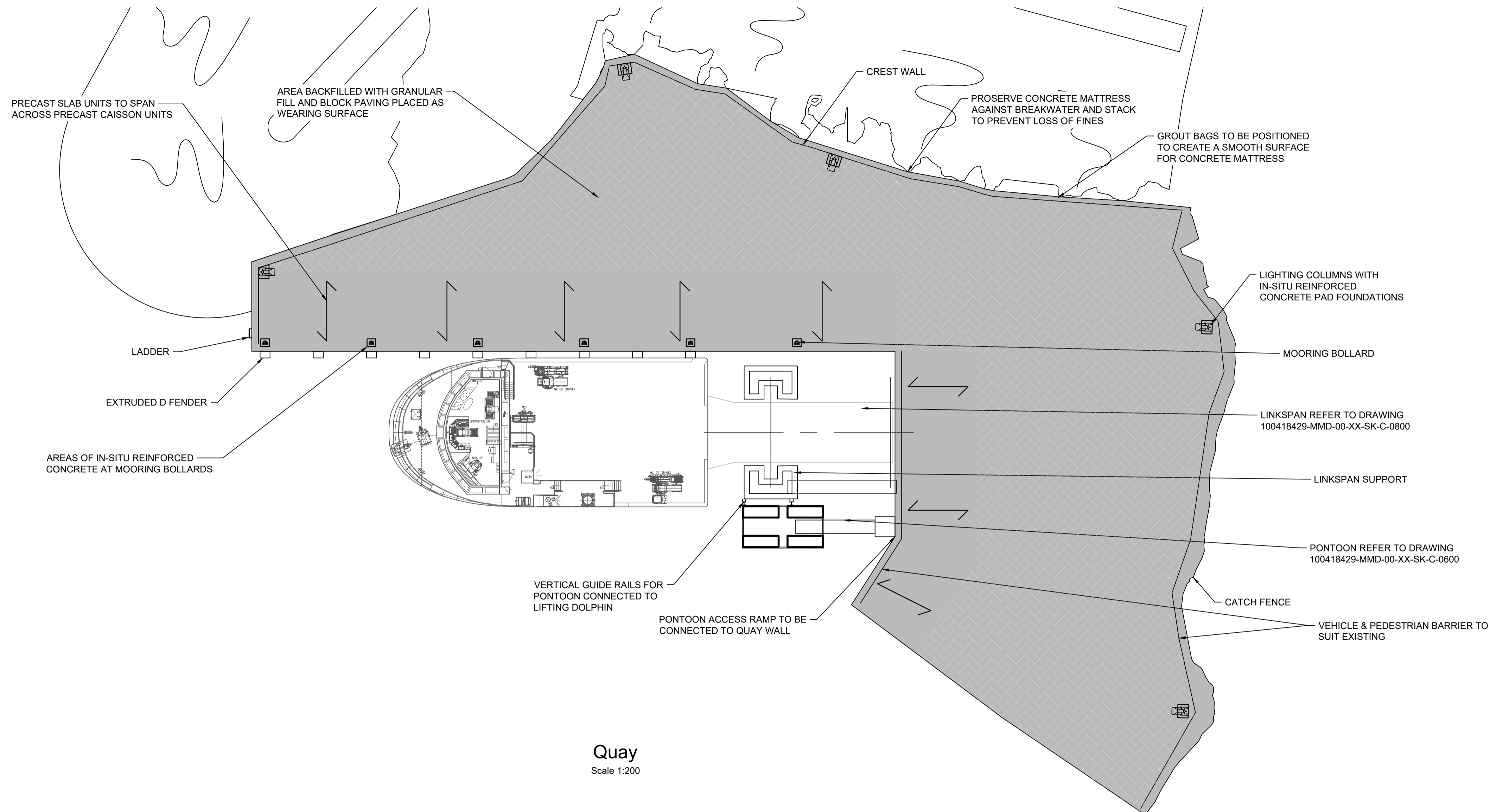
Client
Shetland Islands Council
 8 North Ness Business Park
 Lerwick
 Shetland
 ZE1 0LZ

Title
Fair Isle and Grutness
Outline Design
Fair Isle Ferry Terminal
Proposed Quay Extension

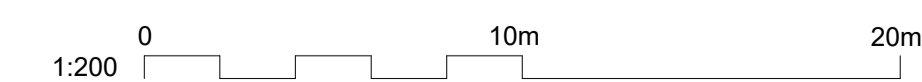
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Dwg check	R Crewe	RC	Approved	M Ross	MR

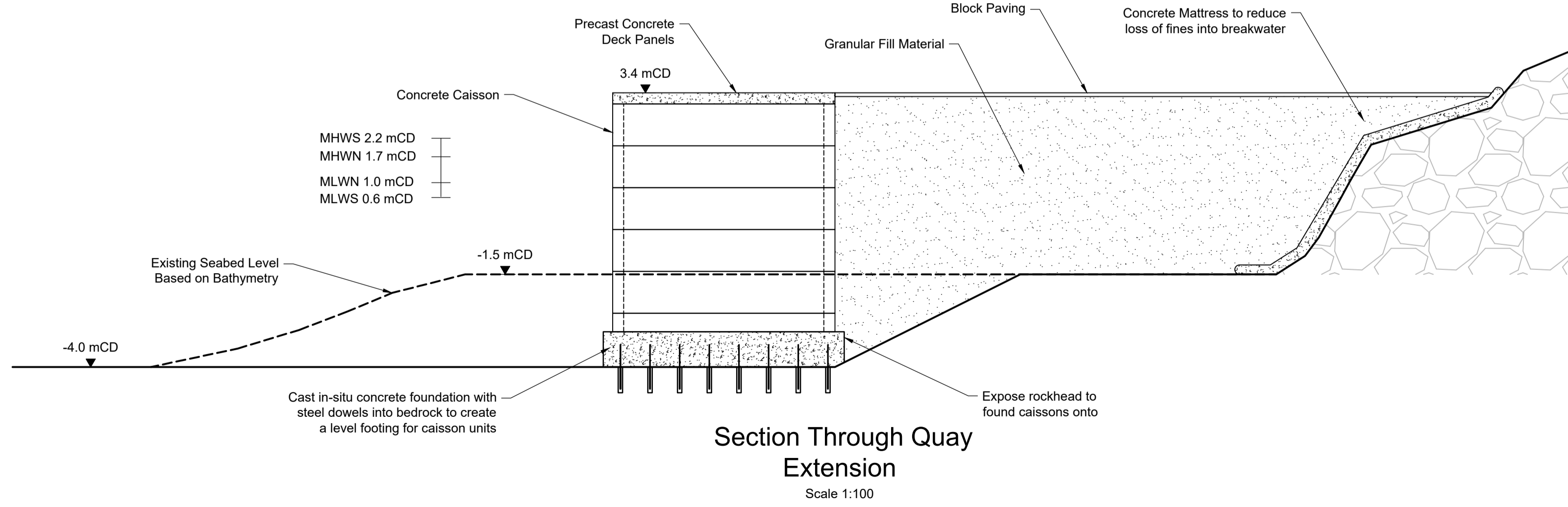
Scale at A1	Status	Rev	Security
As Shown	PRE	P01	STD

Drawing Number
418429-MMD-FI-ZZ-DR-C-3002



Quay
 Scale 1:200





Notes
 1. All levels are in metres above Chart Datum (mACD).
 2. All dimensions are in metres unless otherwise noted.

Key to symbols

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P01	20.12.22	RK	For Information	RC	MR

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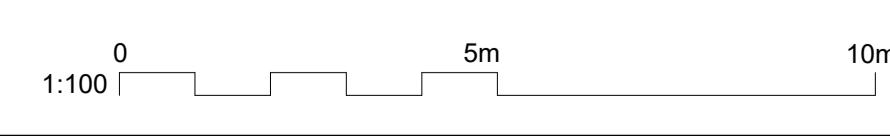
Client
Shetland Islands Council
 8 North Ness Business Park
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 ZE1 0LZ

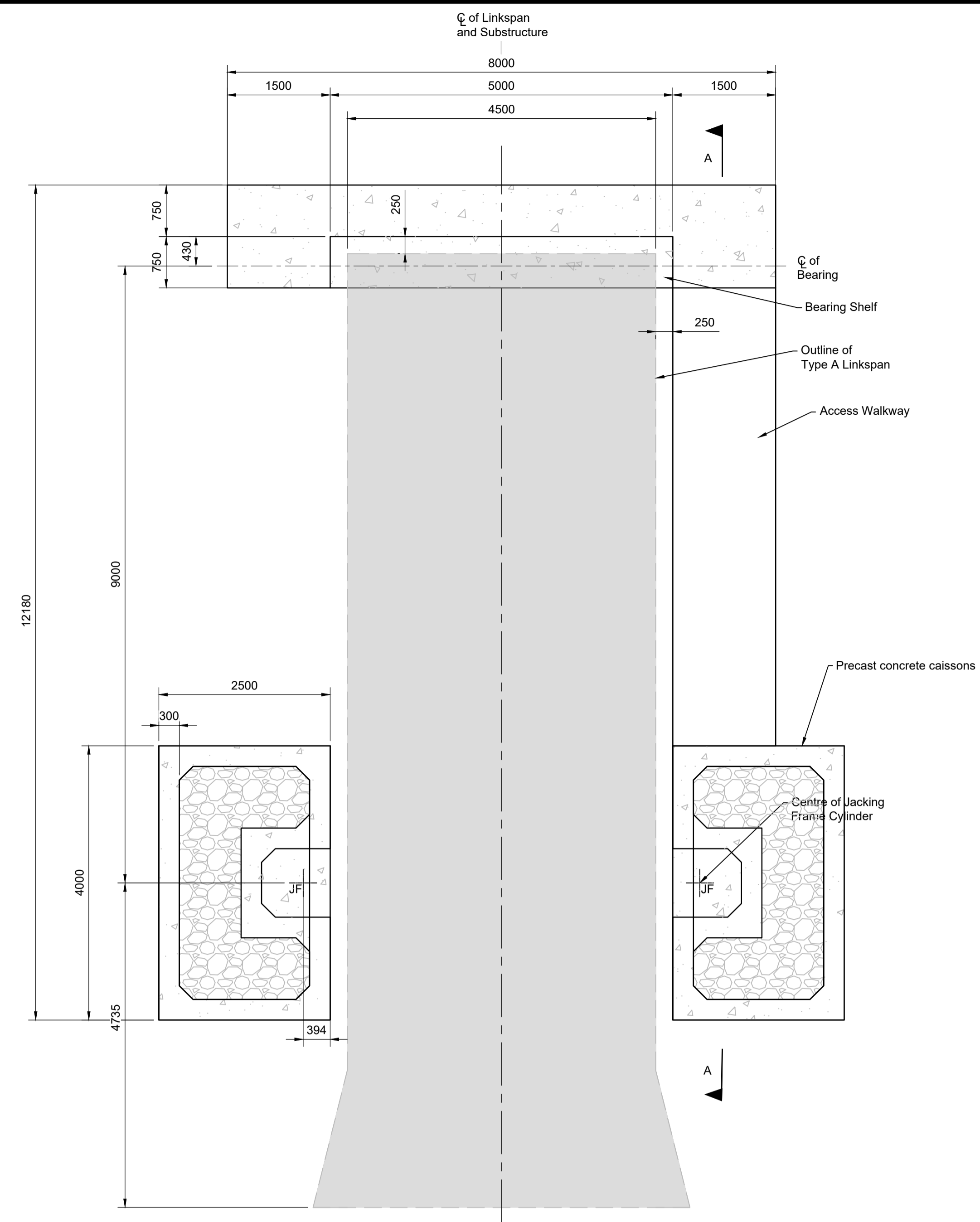
Title
Fair Isle and Grutness
Outline Design
Fair Isle Ferry Terminal
Proposed Caisson Arrangement

Designed	B Radcliffe	BR	Eng check	R Crewe	RC
Drawn	R Kilgour	RK	Coordination	M Cairns	MC
Dwg check	R Crewe	RC	Approved	M Ross	MR
Scale at A1	Status	Rev	Security		
As Shown	PRE	P01	STD		

Drawing Number
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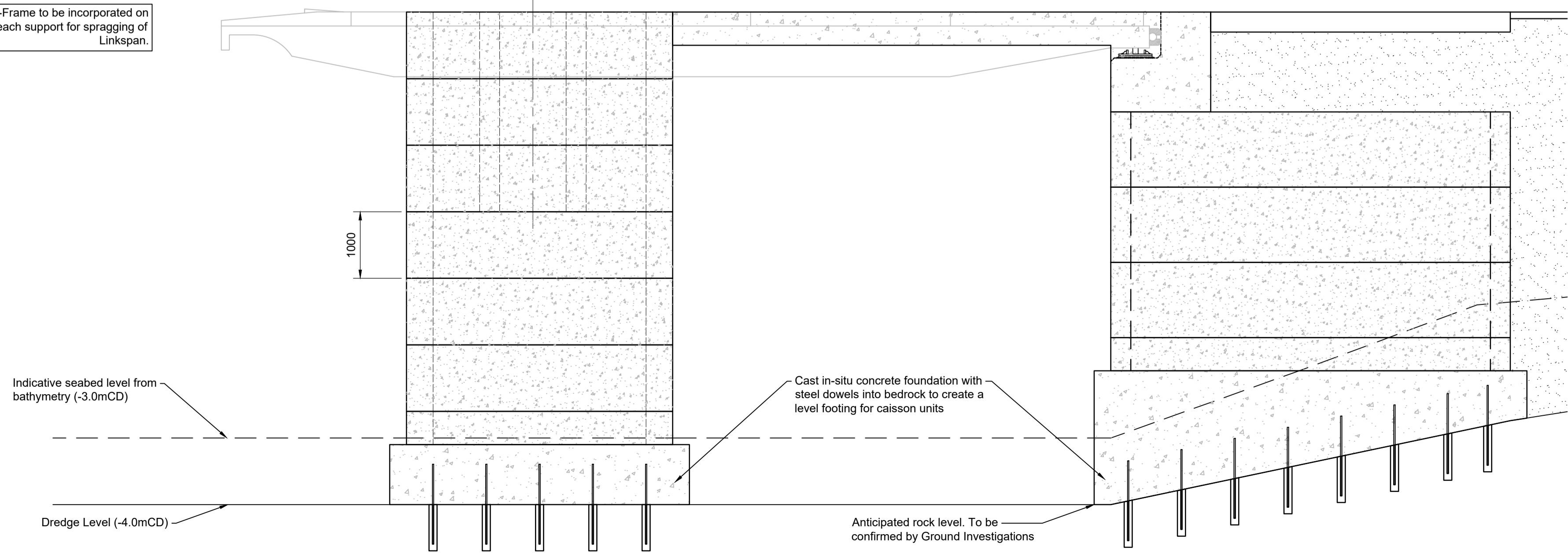
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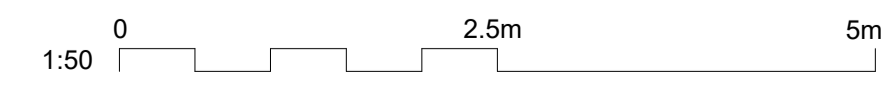


Plan of Linkspan Caisson Substructure
Scale 1:50

An A-Frame to be incorporated on each support for spragging of Linkspan.



A-A Linkspan Caisson Substructure Cross-Section
Scale 1:50



Notes
1. This drawing is indicative only and is subject to design development
2. Linkspan to be a Type A Linkspan with steelwork and concrete support structure similar to Laxo.

Key to symbols

- Linkspan Structure
- Concrete
- Centre of Jacking Frame Cylinder
- Sand

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P01	20.12.22	RK	For Information	RC	MR

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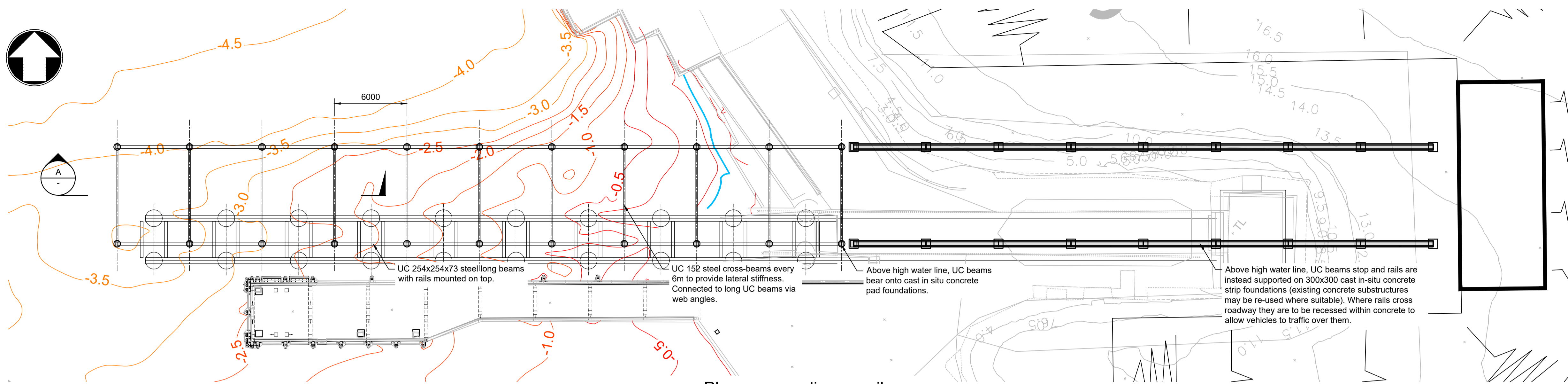
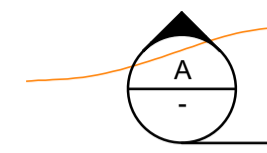
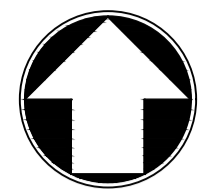
Client
Shetland Islands Council
8 North Ness Business Park
Lerwick
Shetland
ZE1 0LZ

Title
**Shetland Inter Island
Transport BC Support
Fair Isle Ferry Terminal
Proposed Structure - Linkspan**

Designed	M Kirkpatrick	MK	Eng check	R Crewe	RC
Drawn	R Kilgour	RK	Coordination	M Cairns	MC
Dwg check	R Crewe	RC	Approved	M Ross	MR
Scale at A1	Status	Rev	Security		
As Shown	PRE	P01	STD		

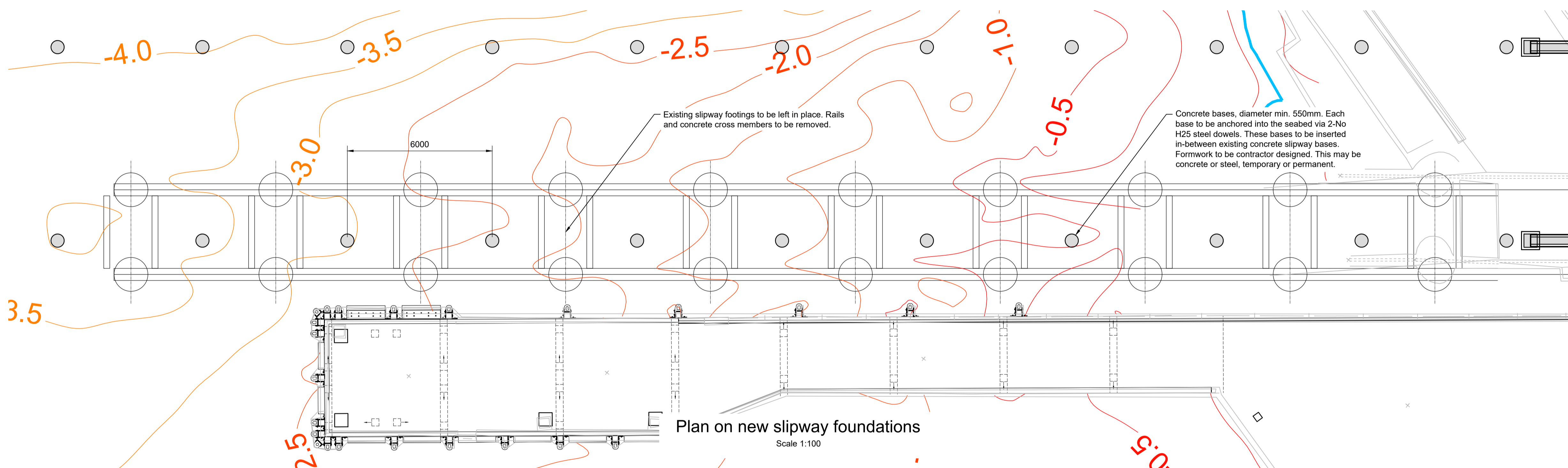
Drawing Number
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C:\Users\KIL82502\Mott MacDonald\Fair Isle and Grunness Design - Do (1)\Develop\06 Fair Isle - Working\Drawings\CAD\DWG\418429-MMD-FI-ZZ-DR-C-3005-F1 - Linkspan Support Structure.dwg Dec 16, 2022 - 10:07AM KIL82502



Plan on new slipway rails

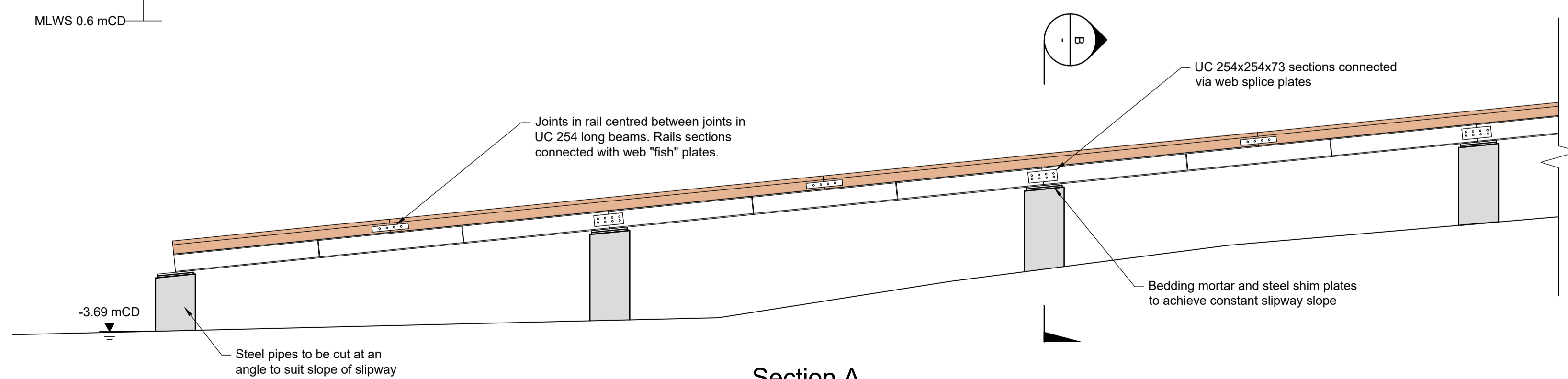
Scale 1:200



Plan on new slipway foundations

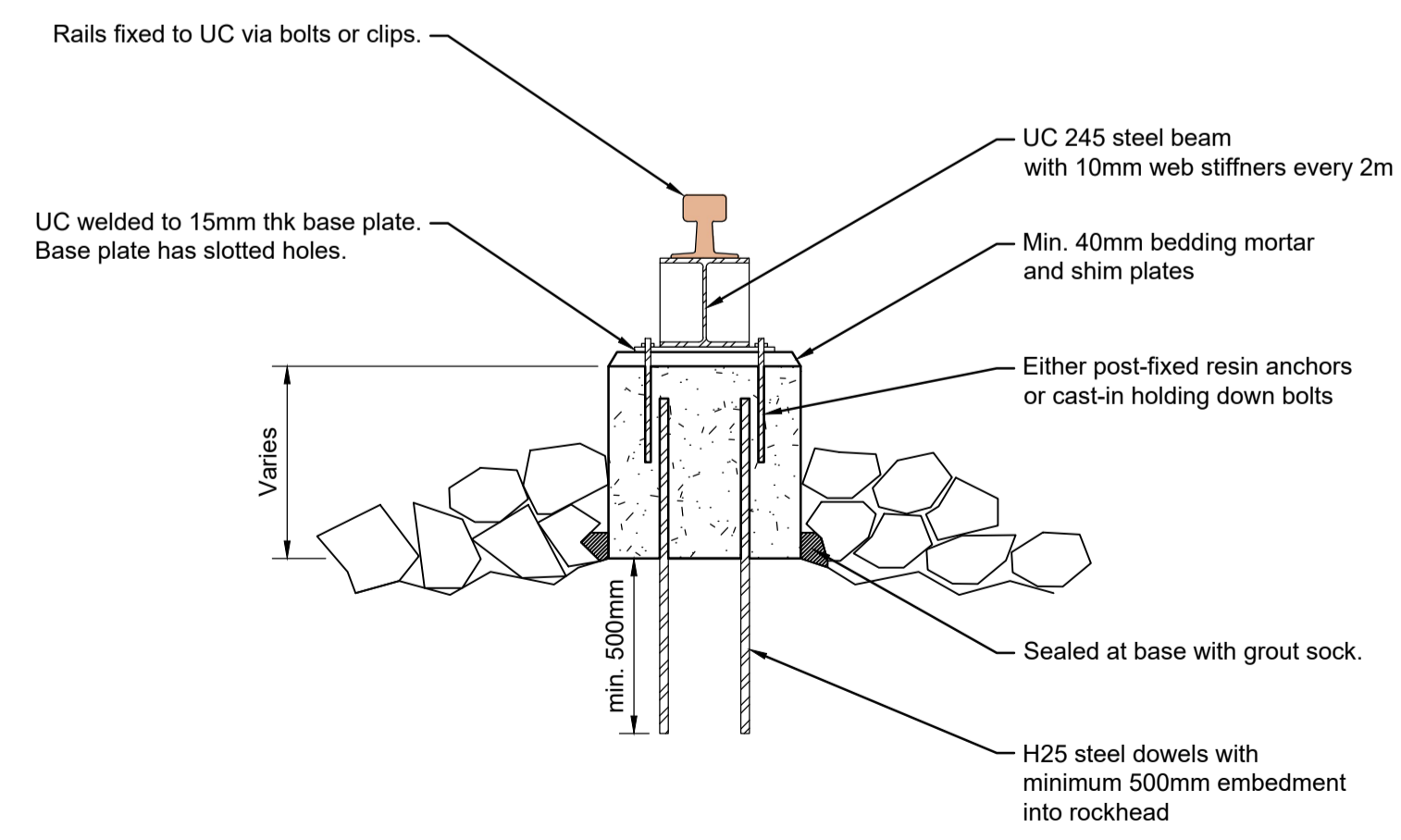
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MLWN 1.0 mCD
MLWS 0.6 mCD



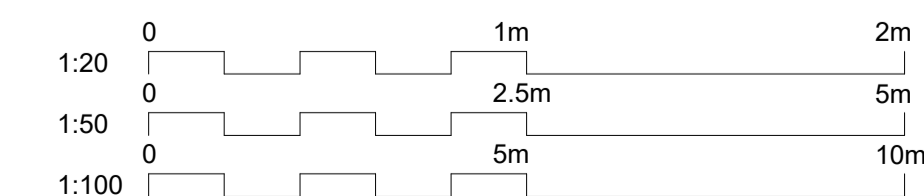
Section A

Scale 1:50



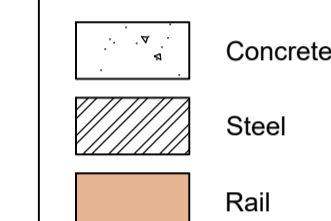
Section B

Scale 1:20



- Notes
- All levels are in metres above Chart Datum (mACD).
 - All dimensions are in metres unless otherwise noted.
 - Chart Datum is 0.92m below Ordnance Datum.
 - Steel profiles and rails to be suitably painted for a marine environment and to have cathodic protection.

Key to symbols



Reference drawings

External Drawings:
A7836 20220616

Fair Isle CD 2D

Rev	Date	Drawn	Description	Ch'k'd	App'd
P01	14.12.22	LM	For Information	RC	MR

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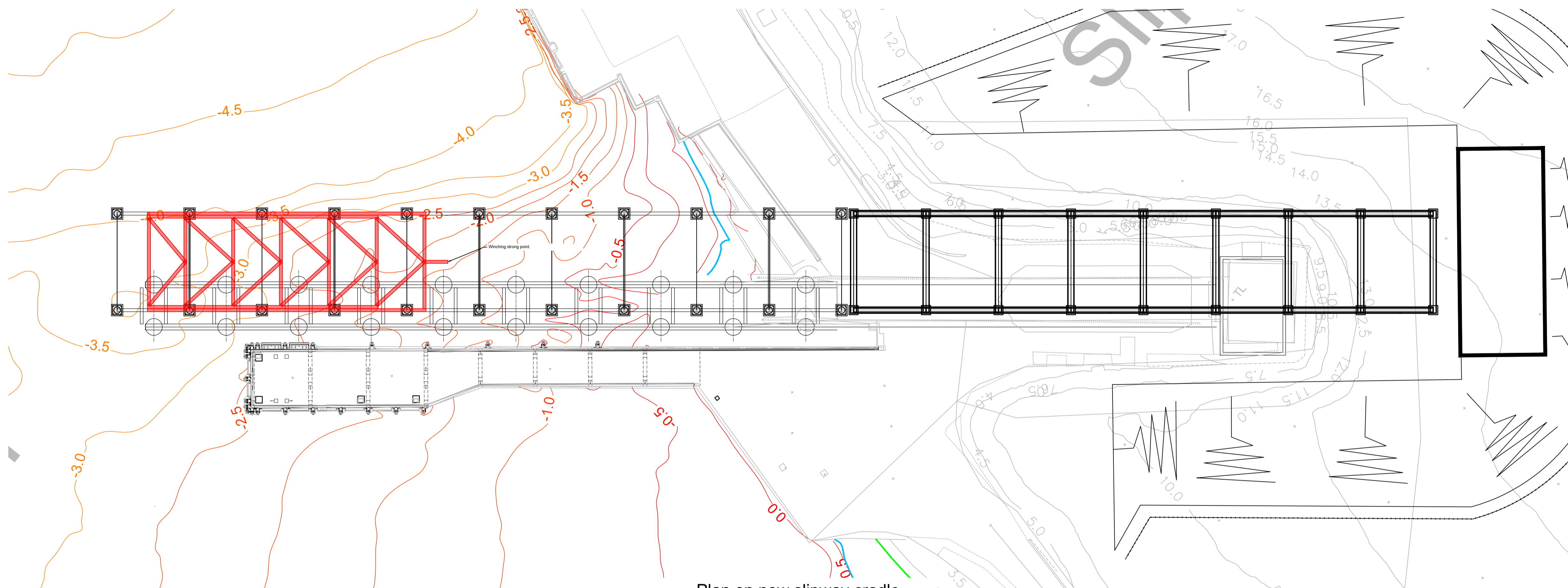
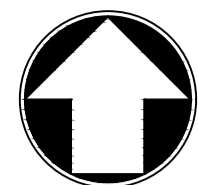
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Client
Shetland Islands Council
8 North Ness Business Park
Lerwick
Shetland
ZE1 0LZ

Title
Fair Isle and Grutness
Outline Design
Fair Isle Ferry Terminal
Proposed Slipway

Designed	R. Crewe	RC	Eng check	R. Crewe	RC
Drawn	L. Marini	LM	Coordination	M. Cairns	MC
Dwg check	R. Crewe	RC	Approved	M. Ross	MR
Scale at A1	Status	Rev	Security		
As Shown	PRE	P01	STD		

Drawing Number
418429-MMD-FI-ZZ-DR-C-3007



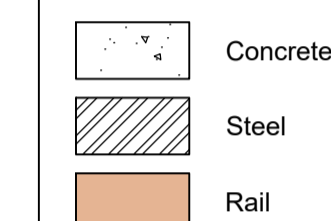
Plan on new slipway cradle

Scale 1:200

Notes

1. All levels are in metres above Chart Datum (mCD).
2. All dimensions are in metres unless otherwise noted.
3. Chart Datum is 0.92m below Ordnance Datum.
4. Steel profiles and rails to be suitably painted for a marine environment and to have cathodic protection.

Key to symbols



Reference drawings

External Drawings:
A7836 20220616

Fair Isle CD 2D

Rev	Date	Drawn	Description	Ch'k'd	App'd
P01	14.12.22	LM	For Information	RC	MR

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Client

Shetland Islands Council
8 North Ness Business Park
Lerwick
Shetland
ZE1 0LZ

Title

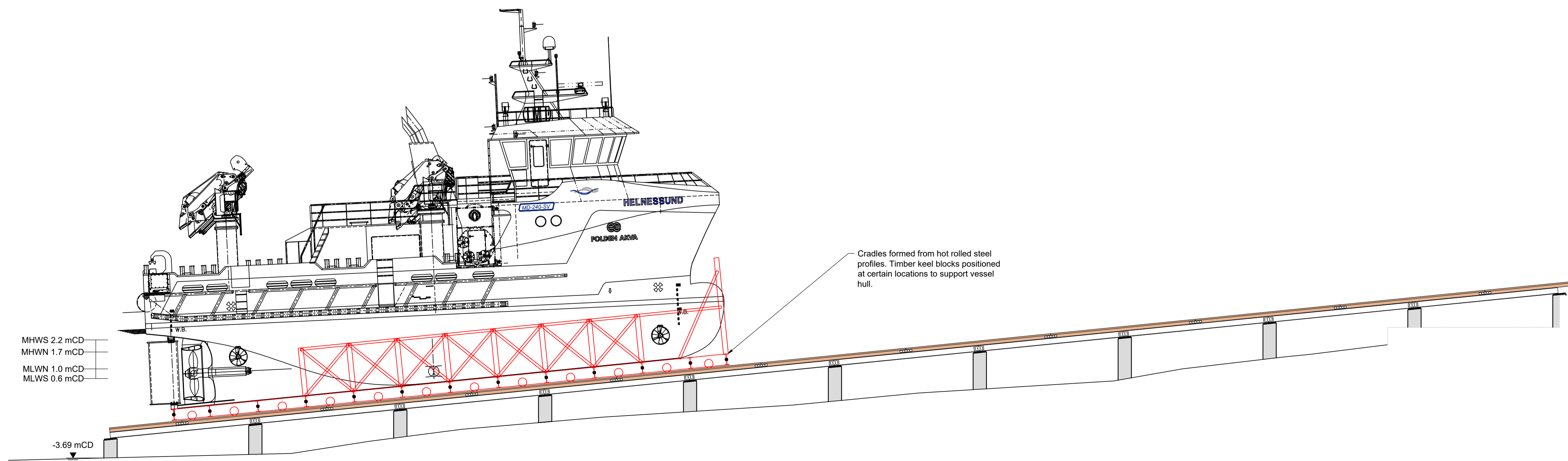
Fair Isle and Grutness
Outline Design
Fair Isle Ferry Terminal
Proposed Slipway
Cradle

Designed	R. Crewe	RC	Eng check	R Crewe	RC
Drawn	L. Marini	LM	Coordination	M Cairns	MC
Dwg check	R Crewe	RC	Approved	M Ross	MR

Scale at A1	Status	Rev	Security
As Shown	PRE	P01	STD

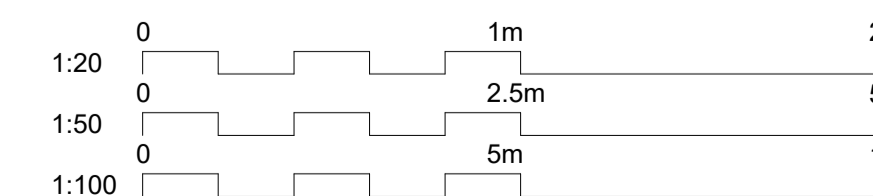
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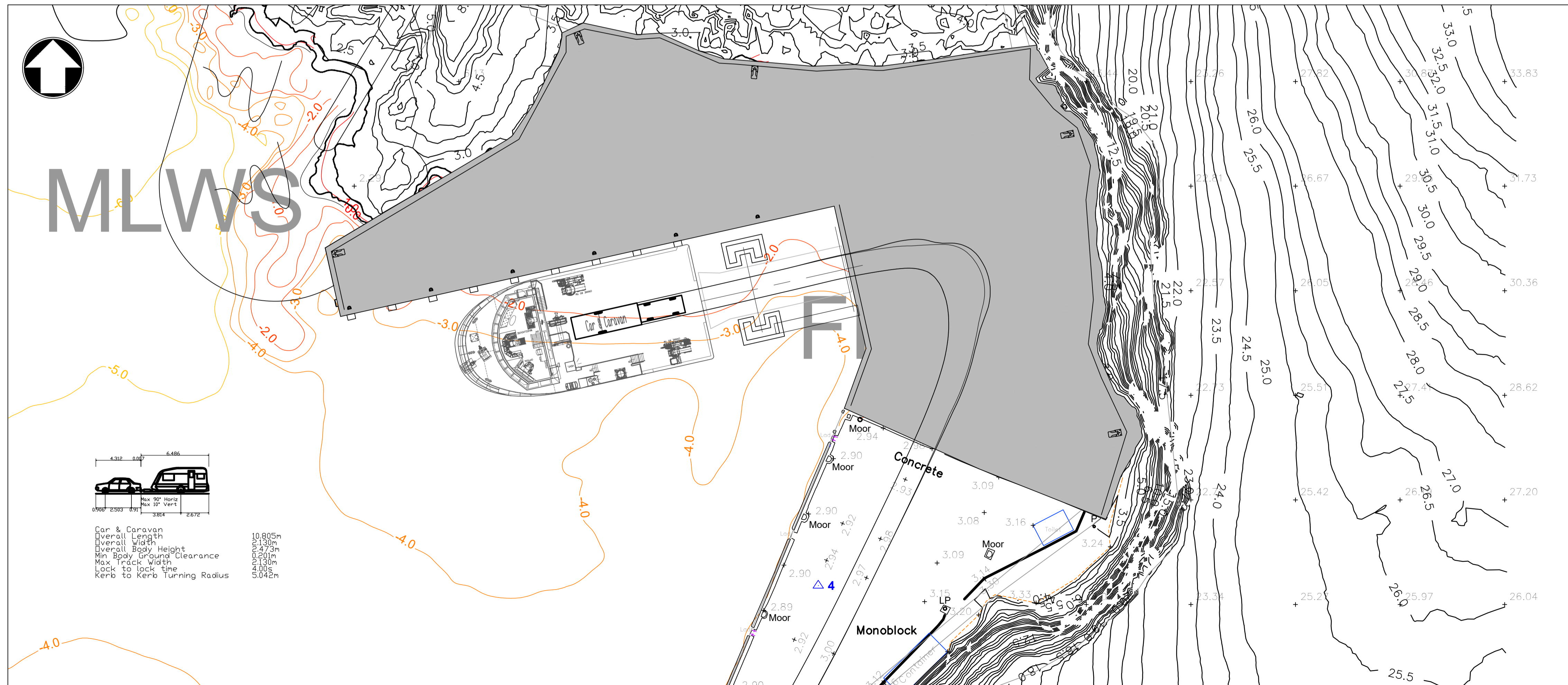
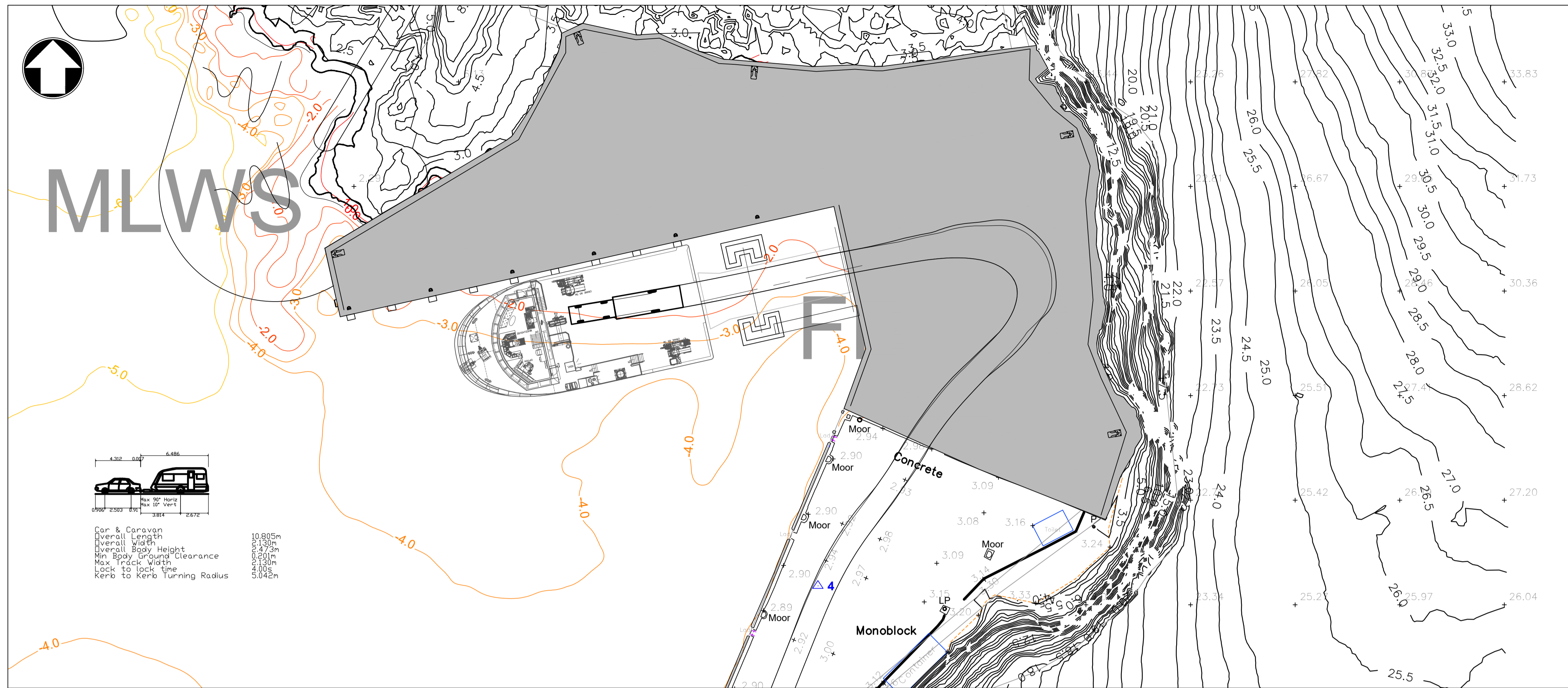
418429-MMD-FI-ZZ-DR-C-3008



Elevation on cradle

Scale 1:100





- Notes
1. All levels are in metres above Ordnance Datum (mAOD).
 2. All dimensions are in metres unless otherwise noted.
 3. It is assumed that vehicles will always drive on and drive off at Fair Isle, and reverse on and off at Grtuness.

Key to symbols

Reference drawings

P01	14.12.22	RK	For Information	RC	MR
Rev	Date	Drawn	Description	Ch'kd	App'd

M
MOTT
MACDONALD

St Vincent Plaza
319 St Vincent Street
Glasgow, G2 5LD
United Kingdom

T +44 (0)141 222 4500
F +44 (0)141 221 2048
W mottmac.com

Client

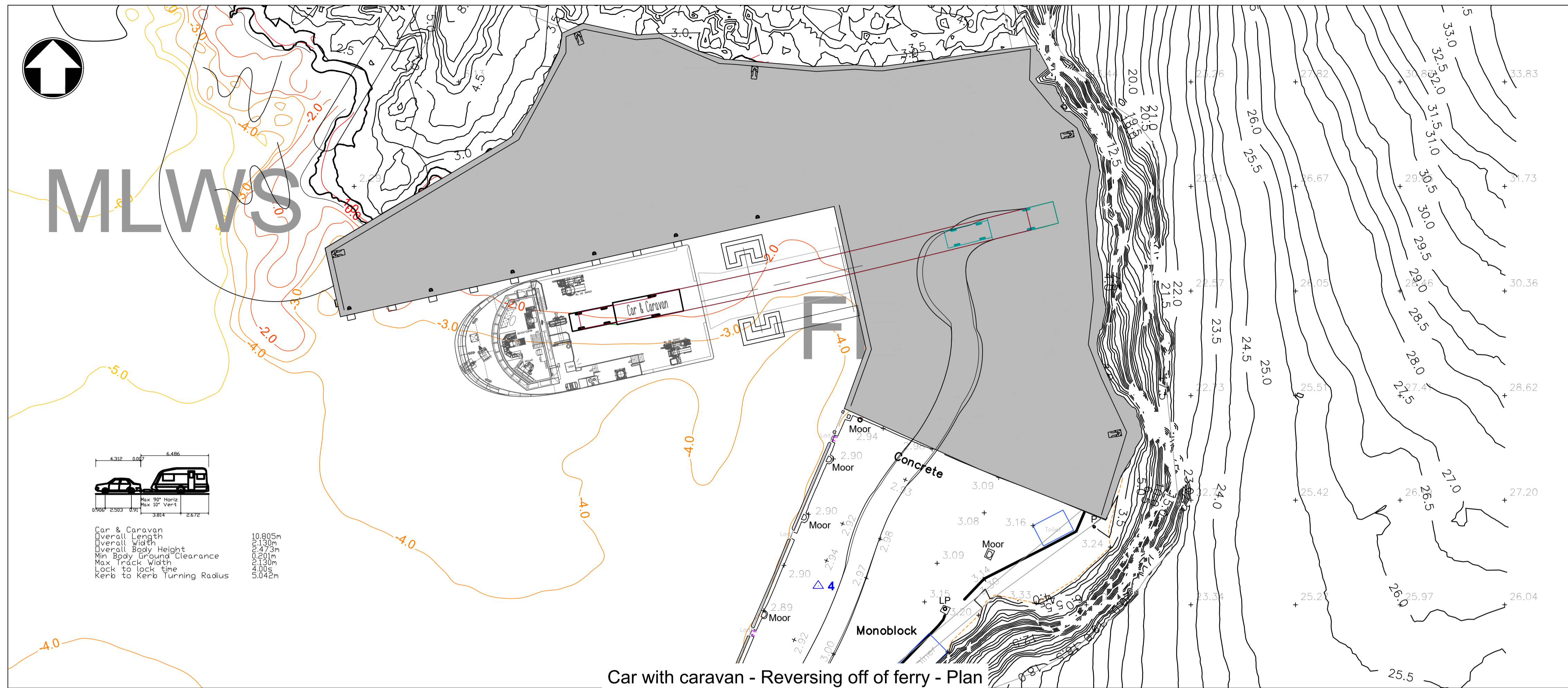
Shetland Islands Council
8 North Ness Business Park
Lerwick
Shetland
ZE1 0LZ

Title

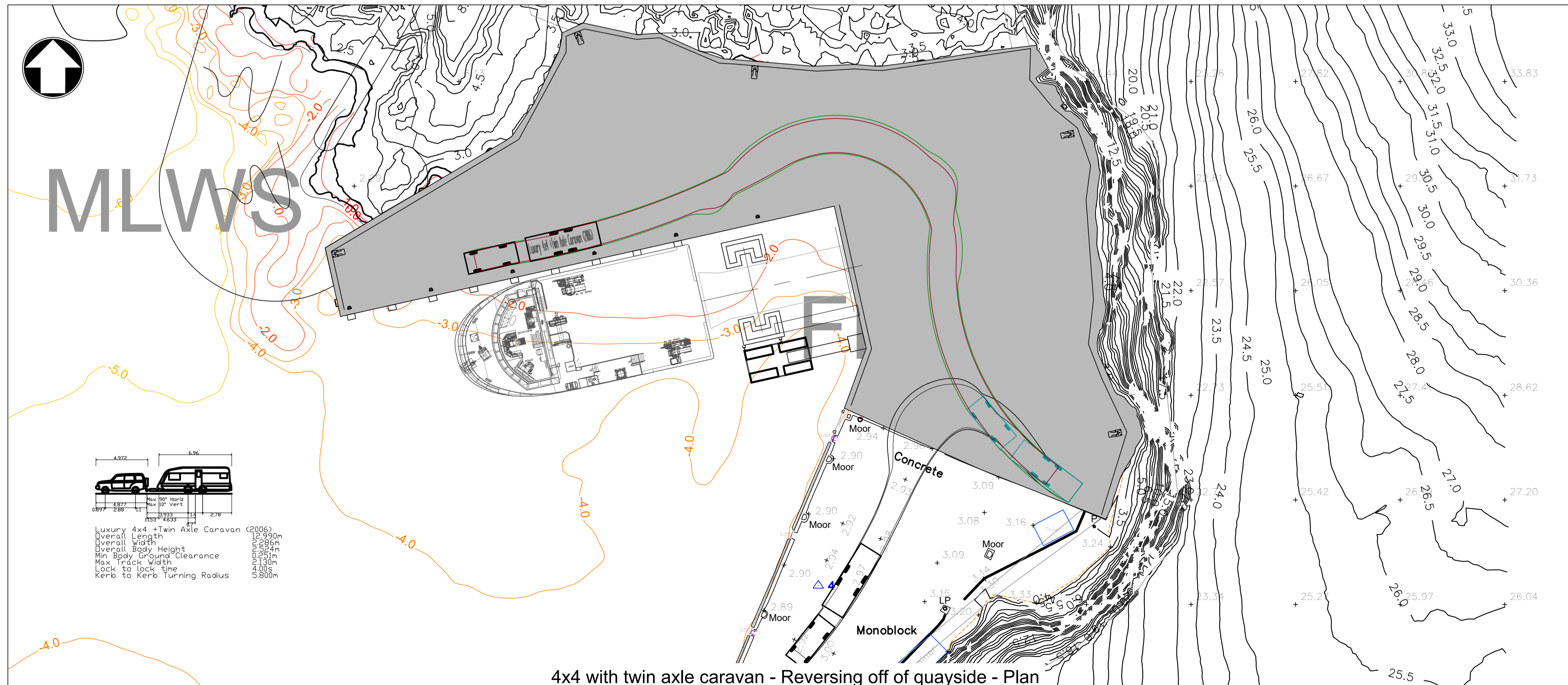
Fair Isle and Grtuness
Outline Design
Fair Isle Ferry Terminal
Vehicle Tracking
(Sheet 1 of 2)

Designed	B Radcliffe	BR	Eng check	R Crewe	RC
Drawn	R Kilgour	RK	Coordination	M Cairns	MC
Dwg check	R Crewe	RC	Approved	M Ross	MR
Scale at A1	Status	Rev	Security		
As Shown	PRE	P01	STD		

Drawing Number
418429-MMD-FI-ZZ-DR-C-3009



Car with caravan - Reversing off of ferry - Plan



4x4 with twin axle caravan - Reversing off of quayside - Plan

- Notes
- All levels are in metres above Ordnance Datum (mAOD).
 - All dimensions are in metres unless otherwise noted.
 - It is assumed that vehicles will always drive on and drive off at Fair Isle, and reverse on and off at Grtuness.

Key to symbols

Reference drawings

P01	14.12.22	RK	For Information	RC	MR
Rev	Date	Drawn	Description	Ch'k'd	App'd

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W mottmac.com

Client

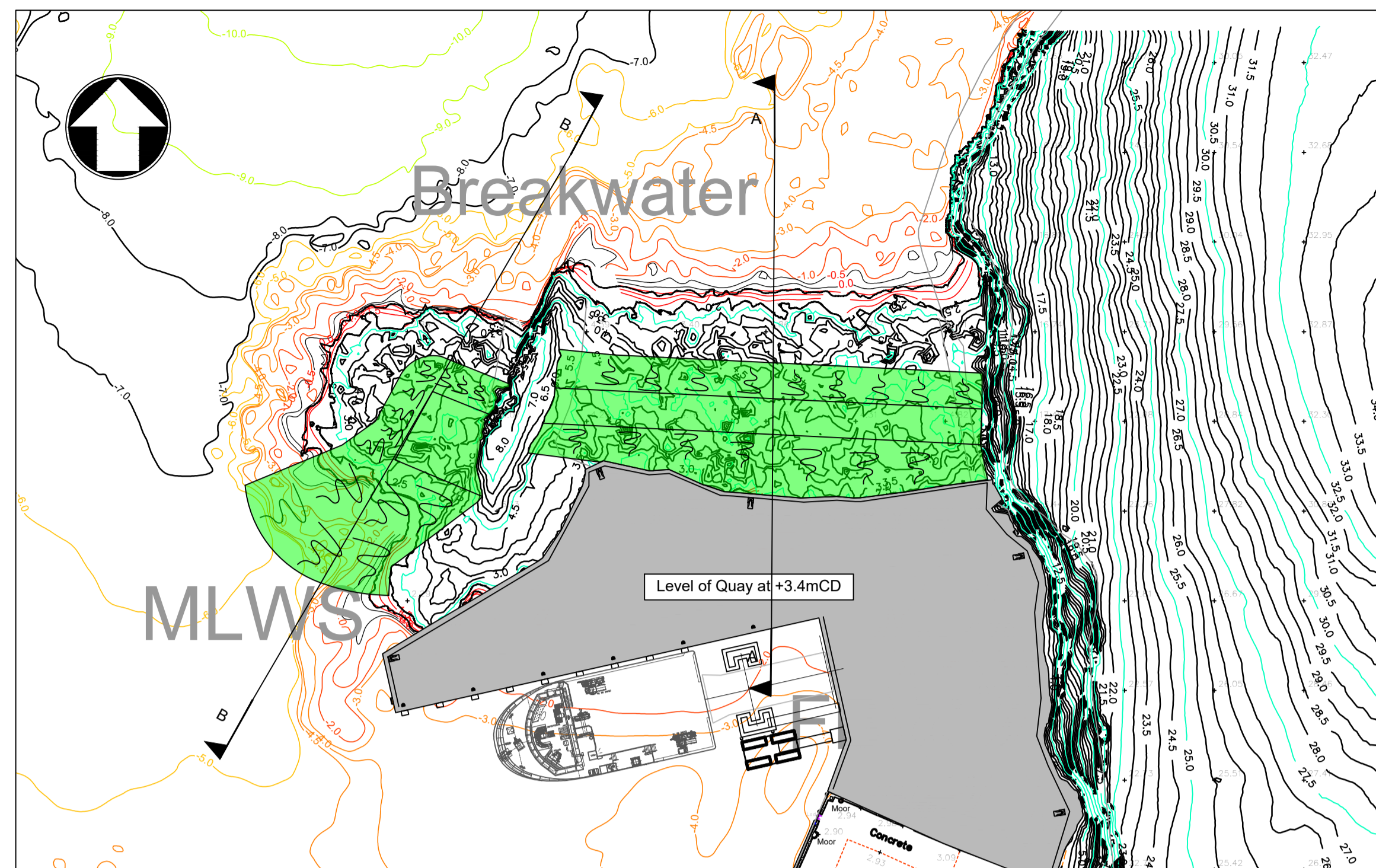
Shetland Islands Council
8 North Ness Business Park
Lerwick
Shetland
ZE1 0LZ

Title

**Fair Isle and Grtuness
Outline Design
Fair Isle Ferry Terminal
Vehicle Tracking
(Sheet 2 of 2)**

Designed	B Radcliffe	BR	Eng check	R Crewe	RC
Drawn	R Kilgour	RK	Coordination	M Cairns	MC
Dwg check	R Crewe	RC	Approved	M Ross	MR
Scale at A1	Status	Rev	Security		
As Shown	PRE	P01	STD		

Drawing Number
418429-MMD-FI-ZZ-DR-C-3010



- Notes
- All levels are in metres above Chart Datum (mCD).
 - All dimensions are in metres unless otherwise noted.

- Key to symbols
- New Rock Armour (sections)
 - New Rock Armour (plan)
 - Existing Rock Armour

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P01	29.03.23	RK	For Information	RC	MR

MOTT MACDONALD

St Vincent Plaza
319 St Vincent Street
Glasgow, G2 5LD
United Kingdom

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W mottmac.com

Client

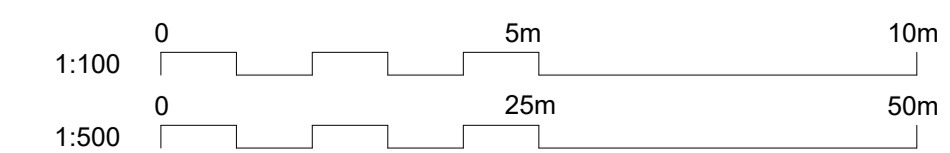
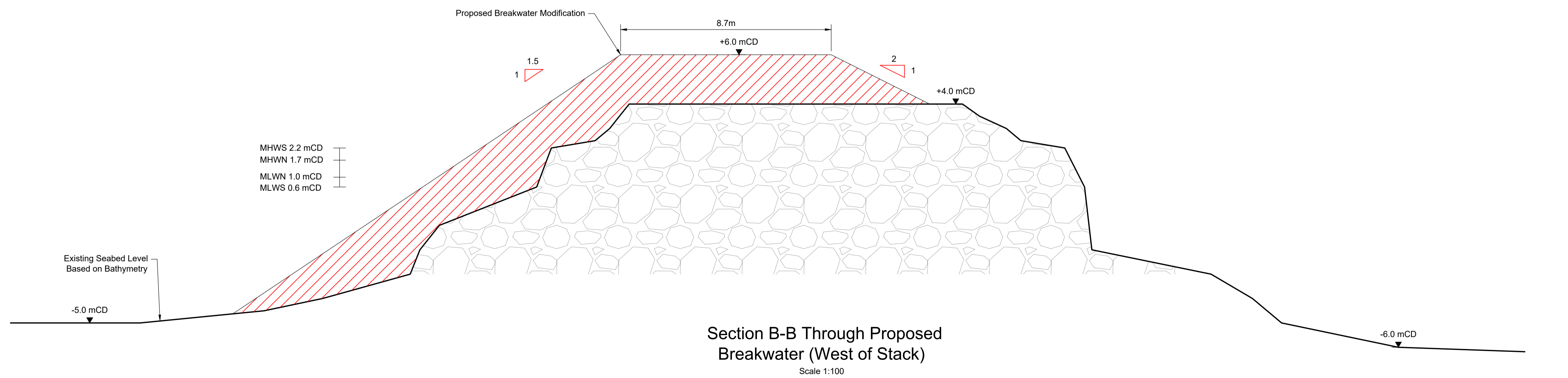
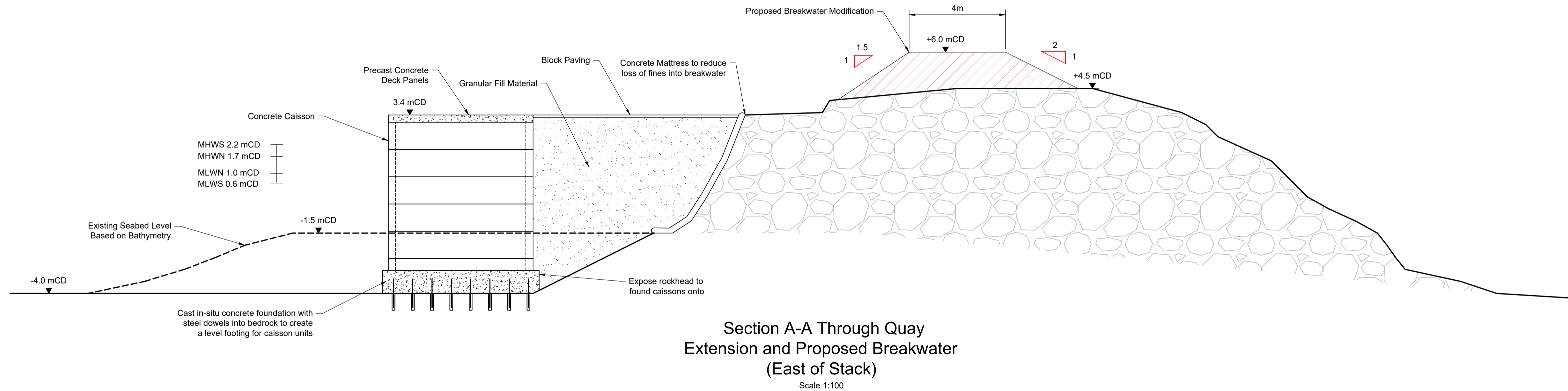
Shetland Islands Council
8 North Ness Business Park
Lerwick
Shetland
ZE1 0LZ

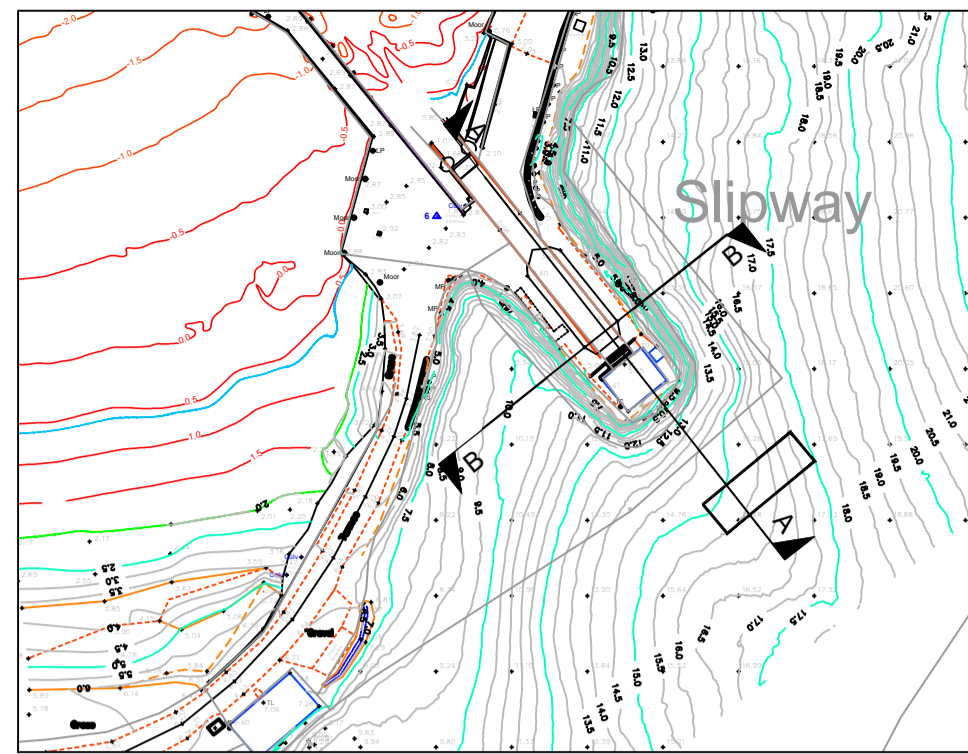
Title

**Fair Isle and Grutness
Outline Design
Fair Isle Ferry Terminal
Proposed Breakwater Modifications**

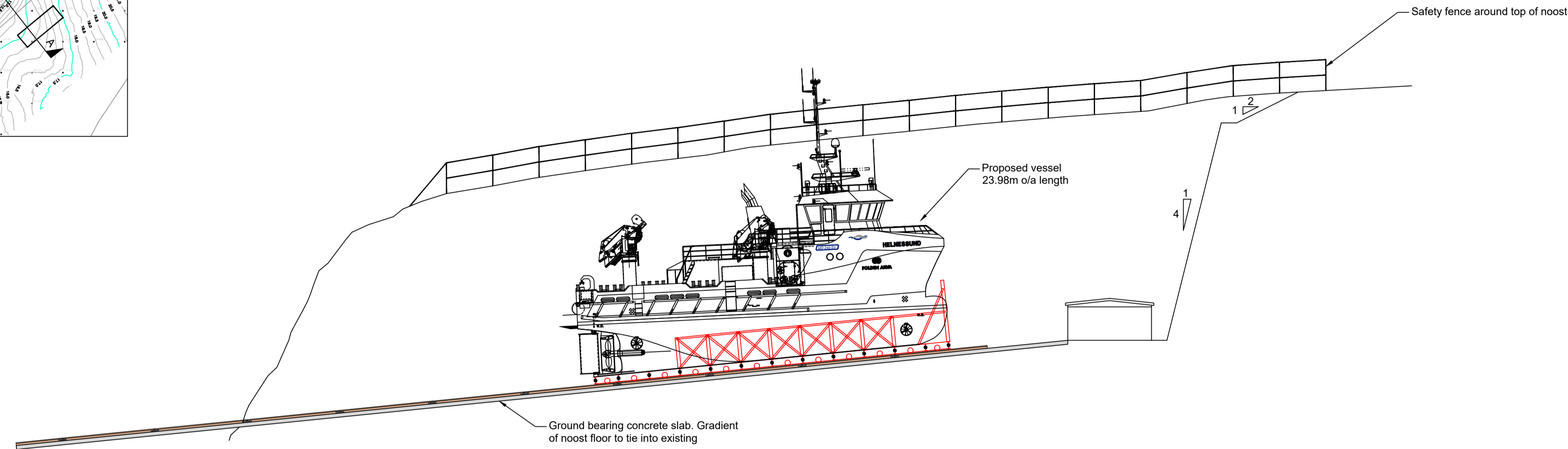
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Drawn	R Kilgour	RK	Coordination	M Cairns	MC
Dwg check	R Crewe	RC	Approved	M Ross	MR
Scale at A1	Status	Rev	Security		
As Shown	PRE	P01	STD		

Drawing Number
418429-MMD-FI-ZZ-DR-C-3012

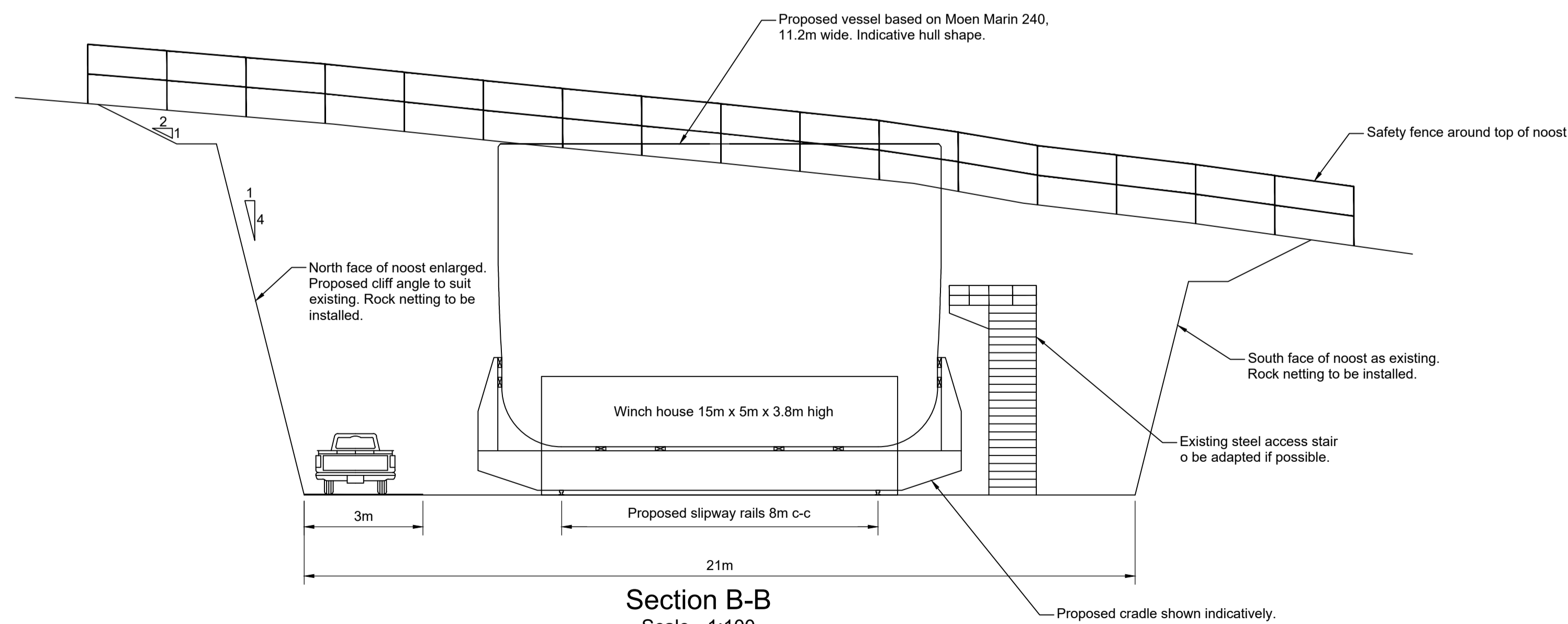




Plan
NTS



Section A-A
Scale - 1:200



Section B-B
Scale - 1:100

Notes

1. All levels are in metres above Chart Datum (mACD).
2. All dimensions are in metres unless otherwise noted.

Key to symbols

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
-----	------	-------	-------------	--------	-------

MOTT MACDONALD
 St Vincent Plaza
 319 St Vincent Street
 Glasgow, G2 5LD
 United Kingdom
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 W mottmac.com

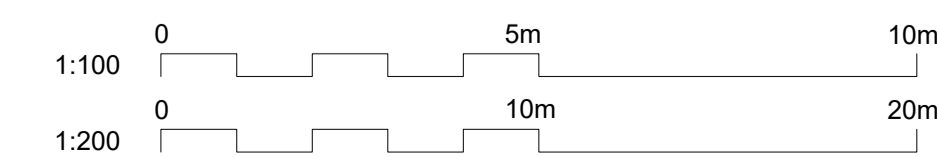
Client
Shetland Islands Council
 8 North Ness Business Park
 Lerwick
 Shetland
 ZE1 0LZ

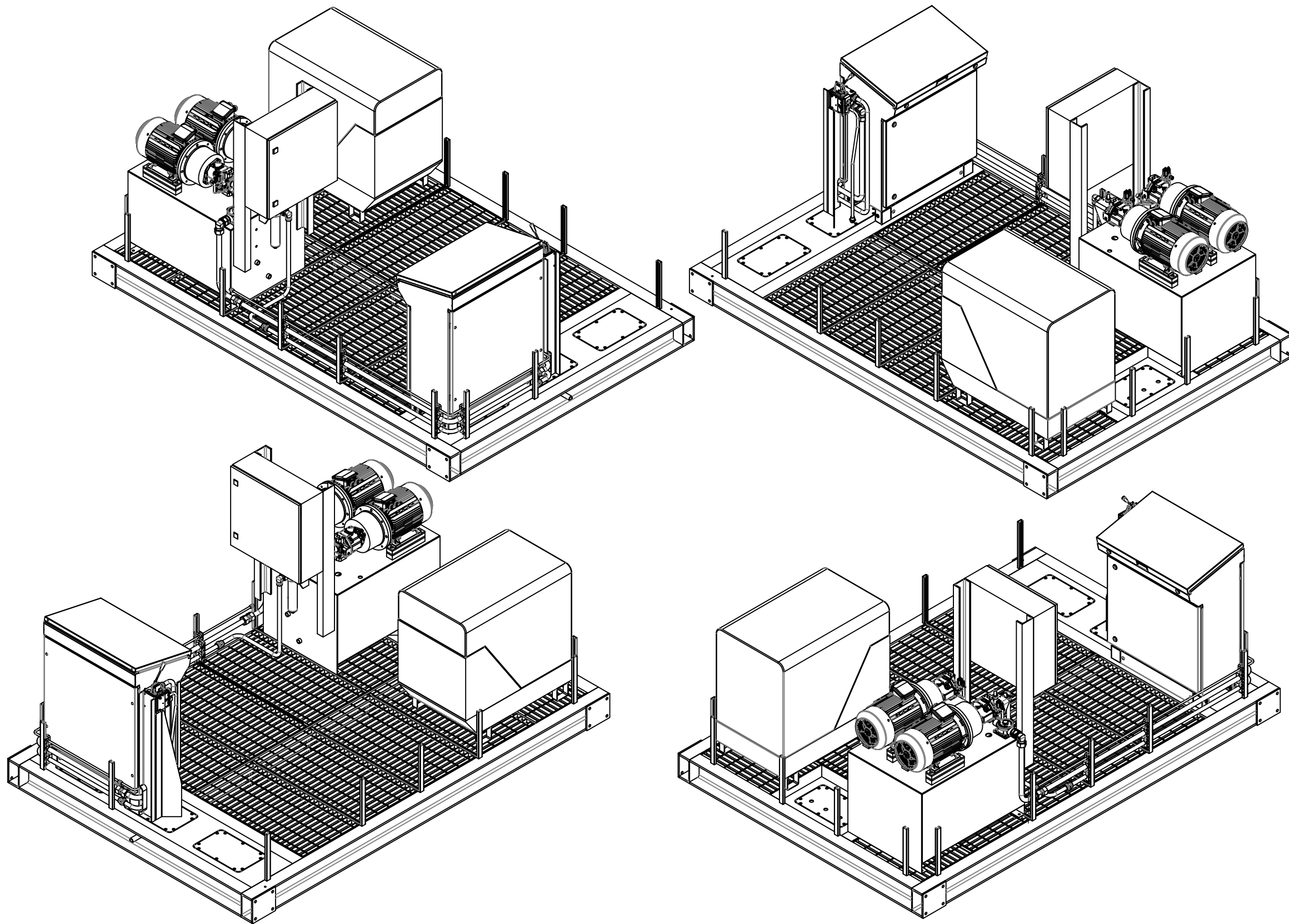
Title
Fair Isle and Grutness
Outline Design
Fair Isle Ferry Terminal
Proposed Noost Sections

Designed	B Radcliffe	BR	Eng check		
Drawn	R Gatheral	RG	Coordination		
Dwg check	R Crewe	RC	Approved		

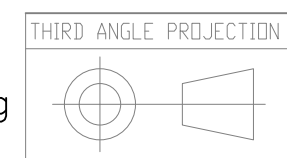
Scale at A1	Status	Rev	Security
As Shown	PRE	P01	STD

Drawing Number
418429-MMD-FI-ZZ-DR-C-3013





Approximate weight 1900kg



Client Shetland Islands Council

Main Contractor John Henderson UK Limited

Project Shetland Terminals Linkspan Up-grade

PRELIMINARY

Revision	Note

Shetland Linkspans

Drawn by GJH	Checked by BJH	Approved by
Filename SIC	Date 11/18	Scale NTS

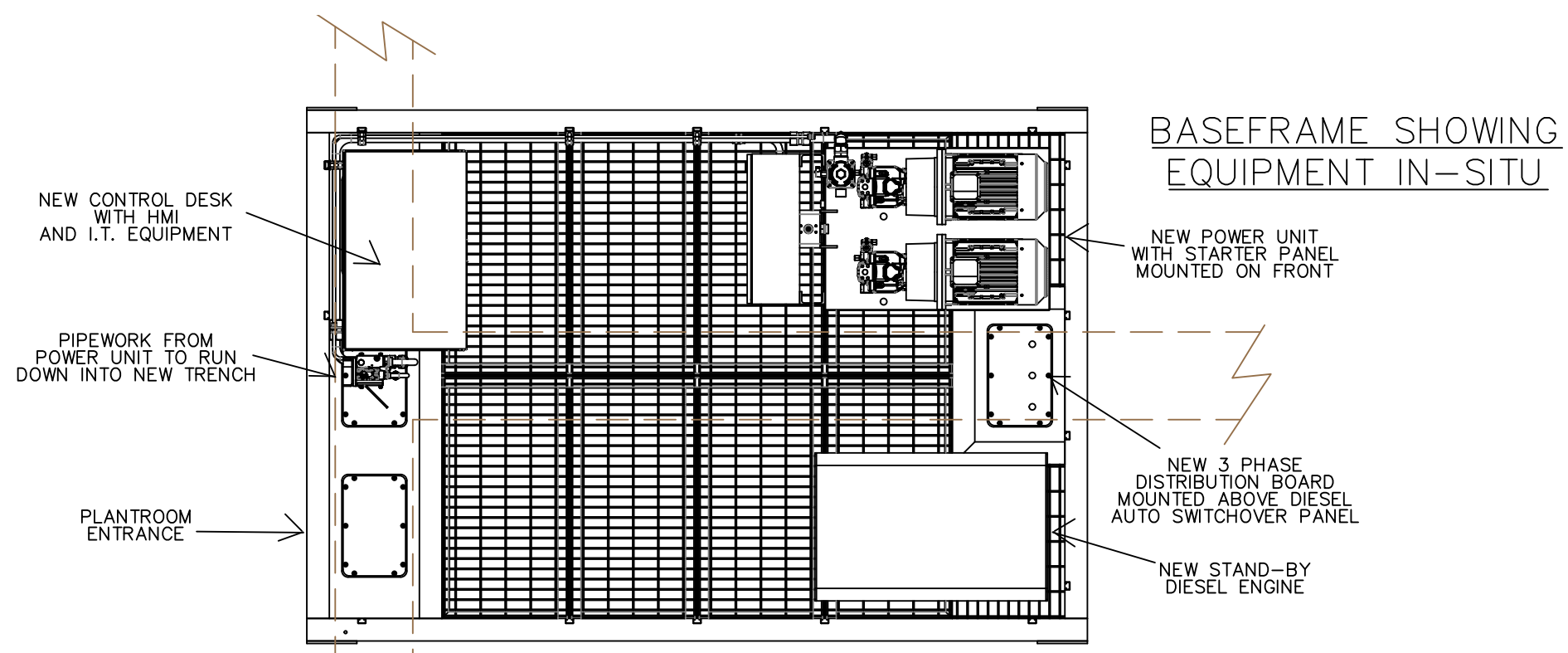
John Henderson
UK Limited

The Boat House
Wharf Street, Brighouse
West Yorkshire, HD6 1EJ
Tel. 0044 (0) [Redacted]
0044 (0)
E-mail. johnhenderson@jhuk.co.uk
grame@jhuk.co.uk

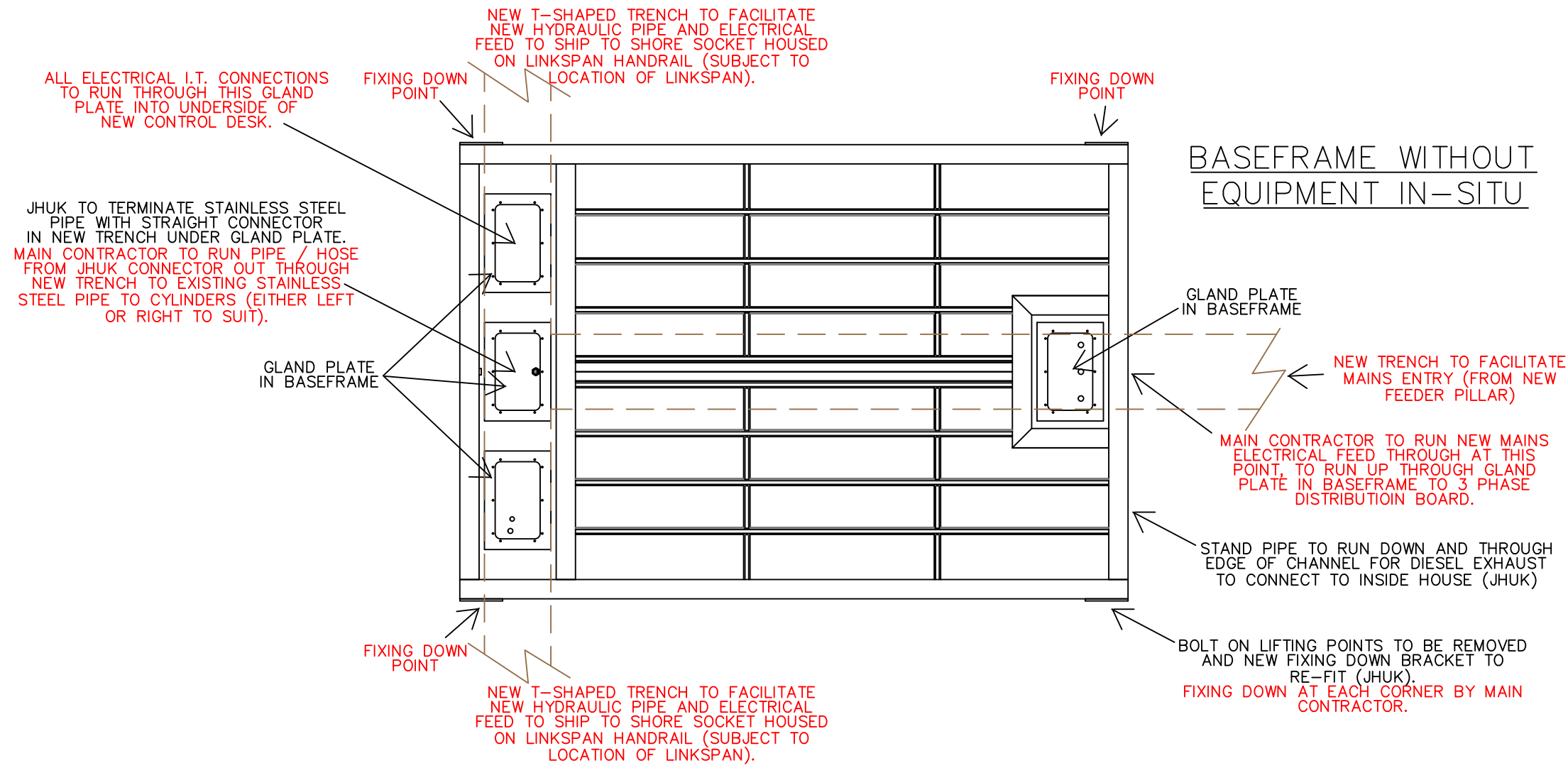
Website. www.jhuk.co.uk

Title
Power Unit & Baseframe

Drawing number A1816/A3	Revision 0	Sheet 3
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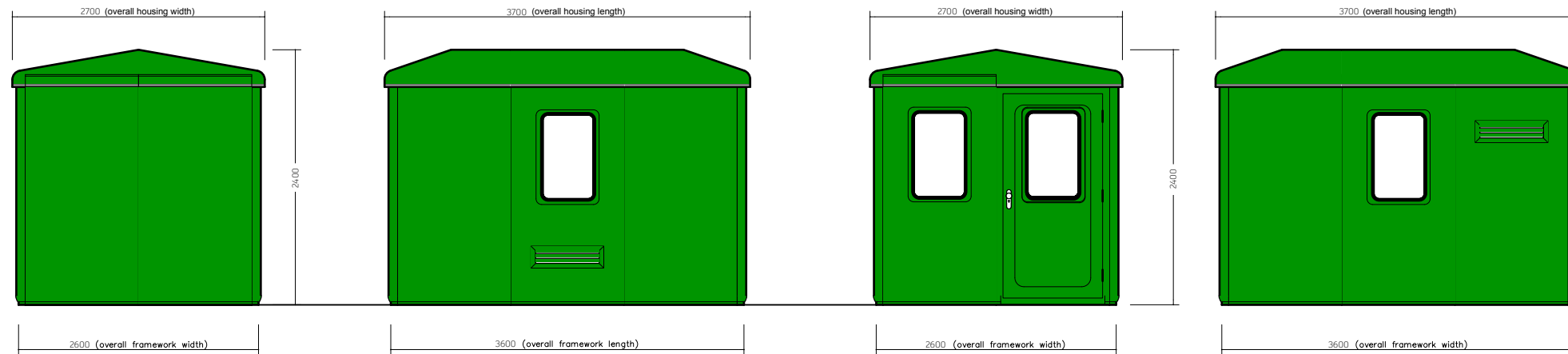
BASEFRAME SHOWING EQUIPMENT IN-SITU



BASEFRAME WITHOUT EQUIPMENT IN-SITU

PRELIMINARY

Client Shetland Islands Council		
Main Contractor John Henderson UK Limited		
Project Shetland Terminals Linkspan Up-grade		
PRELIMINARY		
Revision	Note	
1	BASEFRAME ANNOTATION FOR CONTRACTOR	
Shetland Linkspans		
Drawn by	Checked by	Approved by
GJH	BJH	
Filename	Date	Scale
SIC	11/18	NTS
John Henderson UK Limited The Boat House Wharf Street, Brighouse West Yorkshire, HD6 1EJ Tel. 0044 (0) [Redacted] 0044 (0) E-mail. johnhenderson@jhuk.co.uk graeme@jhuk.co.uk Website. www.jhuk.co.uk		
Title Power Unit & Baseframe		
Drawing number	Revision	Sheet
A1816/A3	1	1



ELEVATION 'A'

ELEVATION 'B'

ELEVATION 'C'

ELEVATION 'D'

NOTES :

Colour – Standard 'Green' BS.4800 (14.C.39).

Colours shown on this drawing are for illustrative purposes only.

* Entire PAC Door Access System, including maglock to be supplied free issue from customer.

UNIT TO INCLUDE:

4 no. 11 Mod.ref.NL Observation Window

ELECTRICAL INSTALLATION:

All electrical installation work undertaken as part of the supply of the unit is in accordance with BS 7671: 2018 Requirements for Electrical Installations

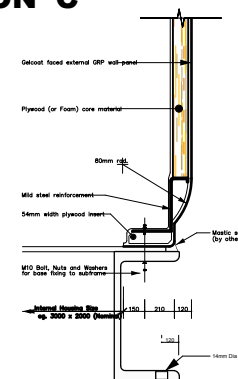
Positions of electrical items are for illustrative purposes only, with final positions and requirements for additional connection units, light switches etc. to be determined by the Electrical Supervisor during assembly of the unit, to ensure the installation complies with the above standard and the requirements of the IEE Wiring Regulations Eighteenth Edition.

MINIMUM BASE REQUIREMENTS :

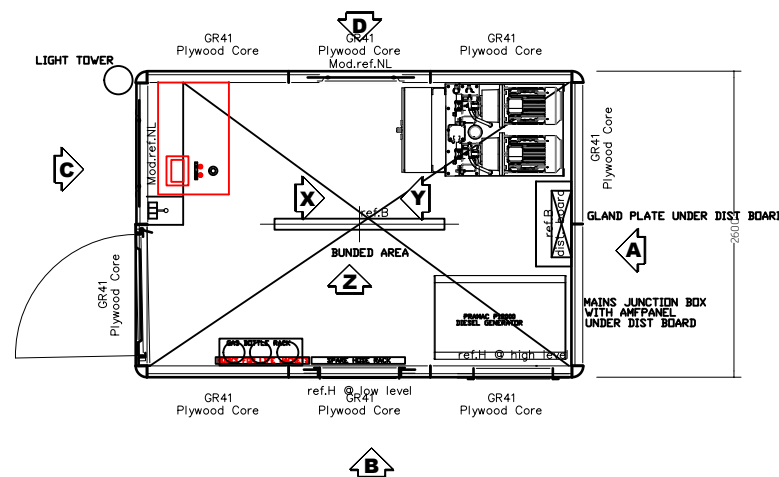
If no suitable existing base, then base to be a minimum size of 3650 x 2650 x 125mm thick concrete onto well consolidated hardcore.

Base to be smooth (float finish), flat, level and square and slightly raised above surrounding ground level.

Base fixing bolts supplied as standard (base fix and seal by others).



**BASE FIXING DETAIL
SCALE 1:3**



PLAN VIEW

Client	Shetland Islands Council
Main Contractor	John Henderson UK Limited
Project	Shetland Terminals Linkspan Up-grade

PRELIMINARY

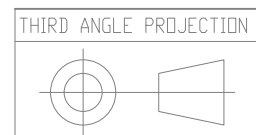
Revision	Note

Shetland Linkspans		
Drawn by	Checked by	Approved by
GJH	BJH	
Filename	Date	Scale
SIC	01/19	NTS

John Henderson
UK Limited

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0044 (0) [Redacted]
E-mail. johnhenderson@jhuk.co.uk
graeme@jhuk.co.uk

Website. www.jhuk.co.uk



Title		
Glasdon1 Arrangement		
Drawing number	Revision	Sheet
A1821/A3	0	2