



## Appendix B

### Site Plans

On behalf of



**Shetland  
Islands  
Council**

Project Ref:332511168| Rev: A | Date: March 2023

Front Cover Photograph provided by Brian Gray



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Notes

1. This drawing is indicative only and is subject to design development

Key to symbols

 New Pier and Linkspan Structures  
 Red Line Boundary

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P01	27.10.21	RK	For Information	MC	MR


  
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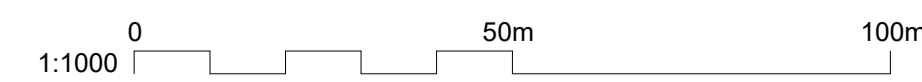
Title  
 Shetland Inter Island  
 Transport BC Support  
 Grutness Ferry Terminal  
 Layout - General Arrangement

Designed	M Kirkpatrick	MK	Eng check	M Kirkpatrick	MK
Drawn	R Kilgour	RK	Coordination	M Kirkpatrick	MK
Dwg check	M Kirkpatrick	MK	Approved	M Ross	MR

Scale at A1	Status	Rev	Security
As Shown	PRE	P01	STD

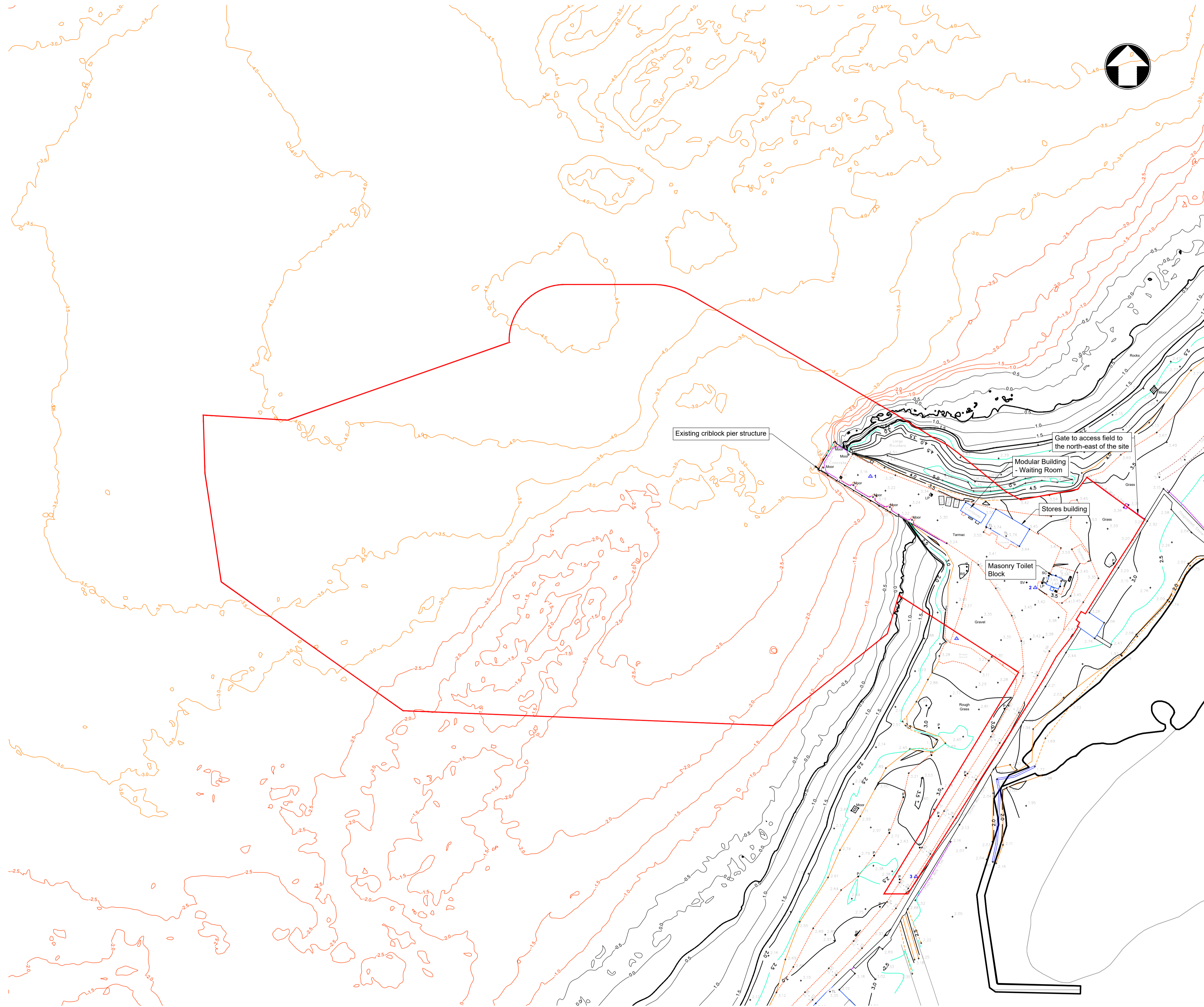
Drawing Number  
 Figure 2.1

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

Key to symbols

— Red Line Boundary

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P01	02.03.23	RK	For Information	RC	MR

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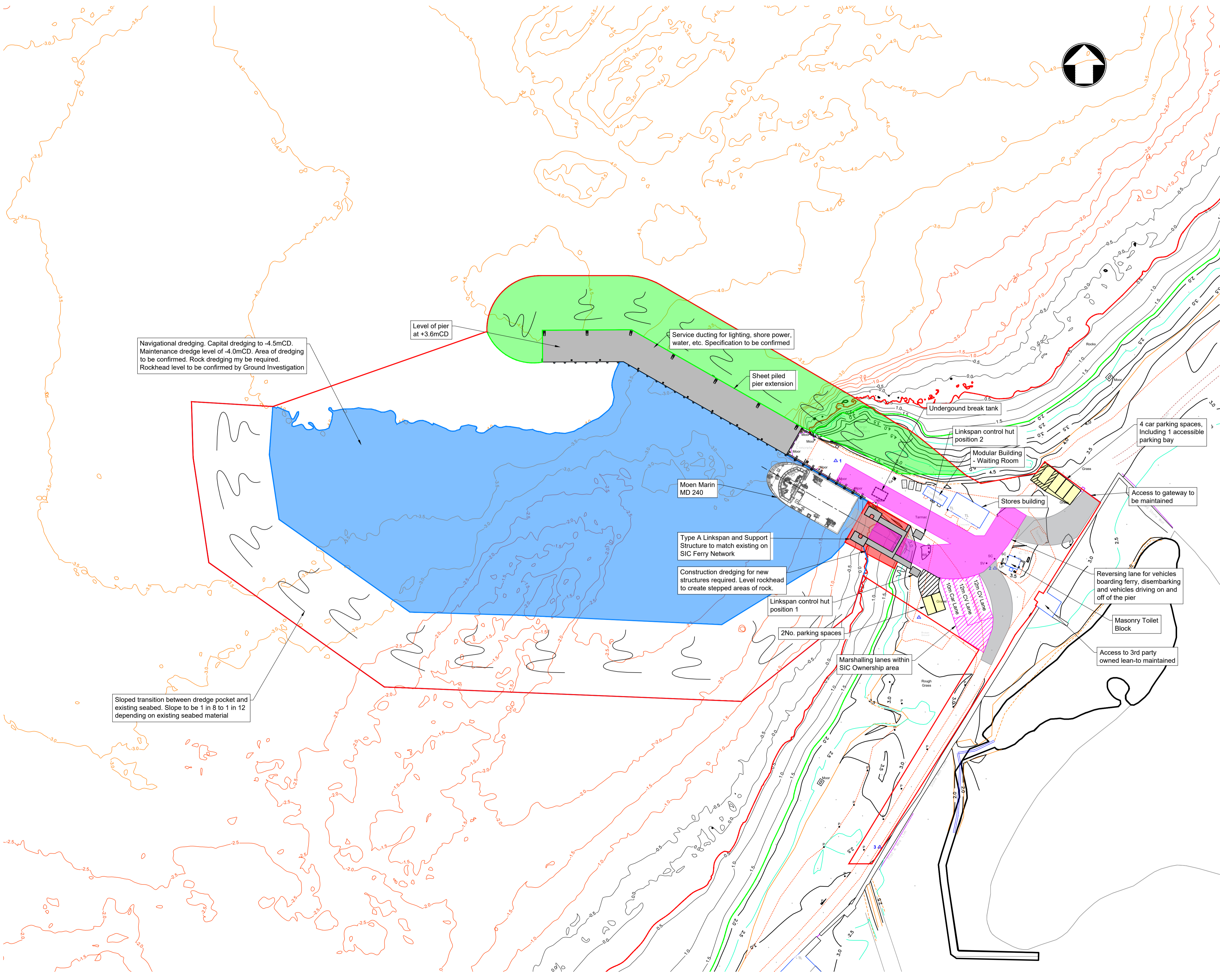
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Title  
 Shetland Inter Island  
 Transport BC Support  
 Grutness Ferry Terminal  
 Existing Site Plan

Designed	M Kirkpatrick	MK	Eng check	R Crewe	RC
Drawn	R Kilgour	RK	Coordination	M Kirkpatrick	MK
Dwg check	R Crewe	RC	Approved	M Ross	MR
Scale at A1	Status	Rev	Security		
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**Figure 2.3**

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 C:\Users\KILB2502\Mott MacDonald\Fair Isle and Grutness Design - Do (1)\Develop\05 Grutness - Working\02 Initial Concept\01 Drawings and sketches\CAD\419429-MMD-GR-ZZ-DR-C-0001 Existing Site Plan.dwg Mar 2, 2023 - 9:44AM KILB2502



Navigational dredging. Capital dredging to -4.5mCD. Maintenance dredge level of -4.0mCD. Area of dredging to be confirmed. Rock dredging may be required. Rockhead level to be confirmed by Ground Investigation

Level of pier at +3.6mCD

Service ducting for lighting, shore power, water, etc. Specification to be confirmed

Sheet piled pier extension

Underground break tank

Linkspan control hut position 2

Modular Building - Waiting Room

4 car parking spaces, including 1 accessible parking bay

Moen Marin MD 240

Stores building

Access to gateway to be maintained

Type A Linkspan and Support Structure to match existing on SIC Ferry Network

Construction dredging for new structures required. Level rockhead to create stepped areas of rock.

Linkspan control hut position 1

Reversing lane for vehicles boarding ferry, disembarking and vehicles driving on and off of the pier

Masonry Toilet Block

2No. parking spaces

Access to 3rd party owned lean-to maintained

Marshalling lanes within SIC Ownership area

Sloped transition between dredge pocket and existing seabed. Slope to be 1 in 8 to 1 in 12 depending on existing seabed material

- Notes
- All levels are in metres about Chart Datum (mACD).
  - All dimensions are in metres unless otherwise noted.
  - Chart Datum is 0.92m below Ordnance Datum.
  - The existing cribwall pier requires intrusive structural condition survey which will require a degree of opening up

Key to symbols

- Site Boundary
- New Pier and Linkspan Structures
- Indicative Dredge Area
- New Rock Armour Revetment
- Construction dredging below new structures
- Marshalling Lanes
- Parking Area

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P03	XX.03.22	LM	Marshalling and Parking Updated	RC	MR
P02	02.03.22	RK	Marshalling and Parking Added	RC	MR
P01	20.12.22	RK	For Information	RC	MR

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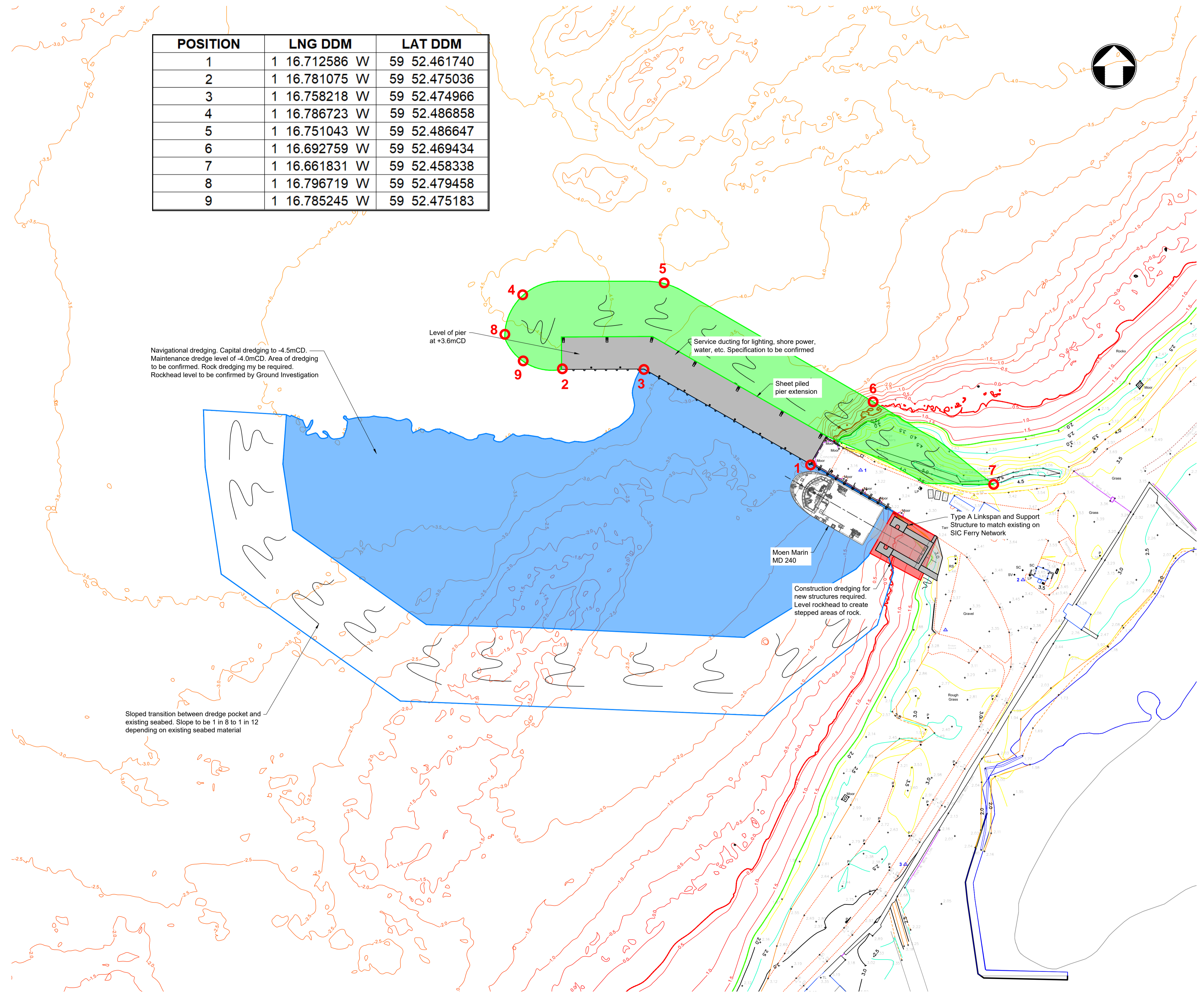
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**Shetland Islands Council**  
 8 North Ness Business Park  
 Lerwick  
 Shetland  
 ZE1 0LZ

Title  
**Shetland Inter Island  
 Transport BC Support  
 Grutness Ferry Terminal  
 Overview**

Designed	M Kirkpatrick	MK	Eng check	R Crewe	RC
Drawn	R Kilgour	RK	Coordination	M Kirkpatrick	MK
Dwg check	R Crewe	RC	Approved	M Ross	MR
Scale at A1	1:500	Status	PRE	Rev	P03
		Security	STD		

Drawing Number  
**Figure 2.4**

POSITION	LNG DDM	LAT DDM
1	1 16.712586 W	59 52.461740
2	1 16.781075 W	59 52.475036
3	1 16.758218 W	59 52.474966
4	1 16.786723 W	59 52.486858
5	1 16.751043 W	59 52.486647
6	1 16.692759 W	59 52.469434
7	1 16.661831 W	59 52.458338
8	1 16.796719 W	59 52.479458
9	1 16.785245 W	59 52.475183



Notes

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Key to symbols

- New Pier and Linkspan Structures
- Indicative Dredge Area
- New Rock Armour Revetment
- Construction dredging below new structures

Reference drawings

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

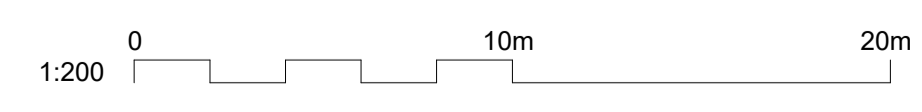
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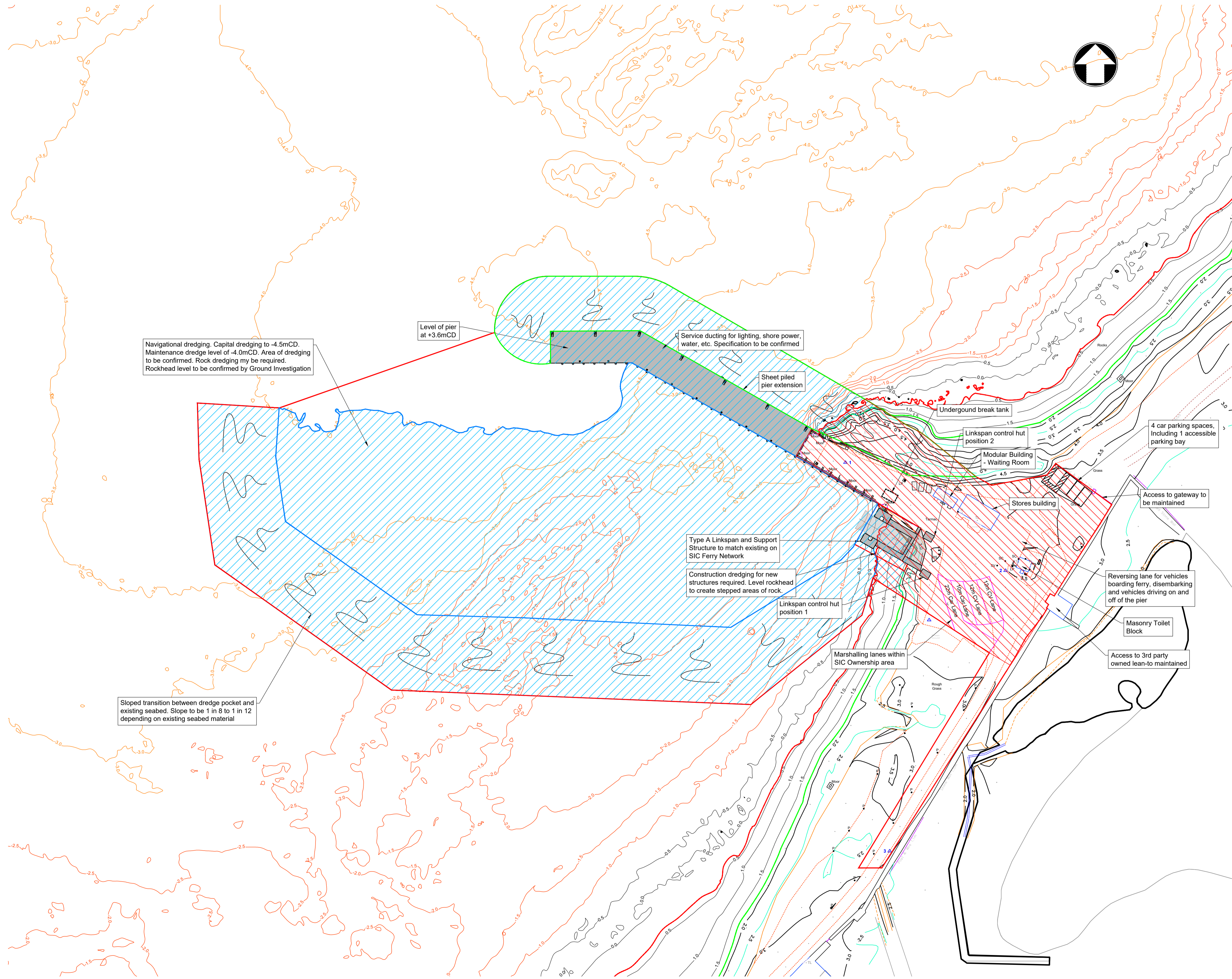
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Drawn	R Kilgour	RK	Coordination	M Kirkpatrick	MK
Dwg check	R Crewe	RC	Approved	M Ross	MR
Scale at A1	Status	Rev	Security		
As Shown	PRE	P01	STD		
Drawing Number 418429-MMD-GR-ZZ-DR-C-1000					





Navigational dredging. Capital dredging to -4.5mCD. Maintenance dredge level of -4.0mCD. Area of dredging to be confirmed. Rock dredging may be required. Rockhead level to be confirmed by Ground Investigation

Level of pier at +3.6mCD

Service ducting for lighting, shore power, water, etc. Specification to be confirmed

Sheet piled pier extension

Underground break tank

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Linkspan control hut position 1

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Reversing lane for vehicles boarding ferry, disembarking and vehicles driving on and off of the pier

Masonry Toilet Block

Access to 3rd party owned lean-to maintained

Sloped transition between dredge pocket and existing seabed. Slope to be 1 in 8 to 1 in 12 depending on existing seabed material

- Notes
- All levels are in metres about Chart Datum (mACD).
  - All dimensions are in metres unless otherwise noted.
  - Chart Datum is 0.92m below Ordnance Datum.
  - The existing cribwall pier requires intrusive structural condition survey which will require a degree of opening up

- Key to symbols
- Site Boundary
  - Indicative Dredge Area
  - Rock Armour Revetment
  - Marshalling Lanes
  - New Linkspan and Pier Extension Structures
  - Marine Works
  - Terrestrial Works

Reference drawings

P01	02.03.23	RK	For Information	RC	MR
Rev	Date	Drawn	Description	Ch'k'd	App'd

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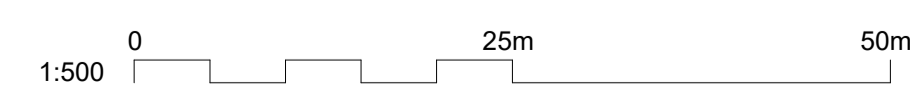
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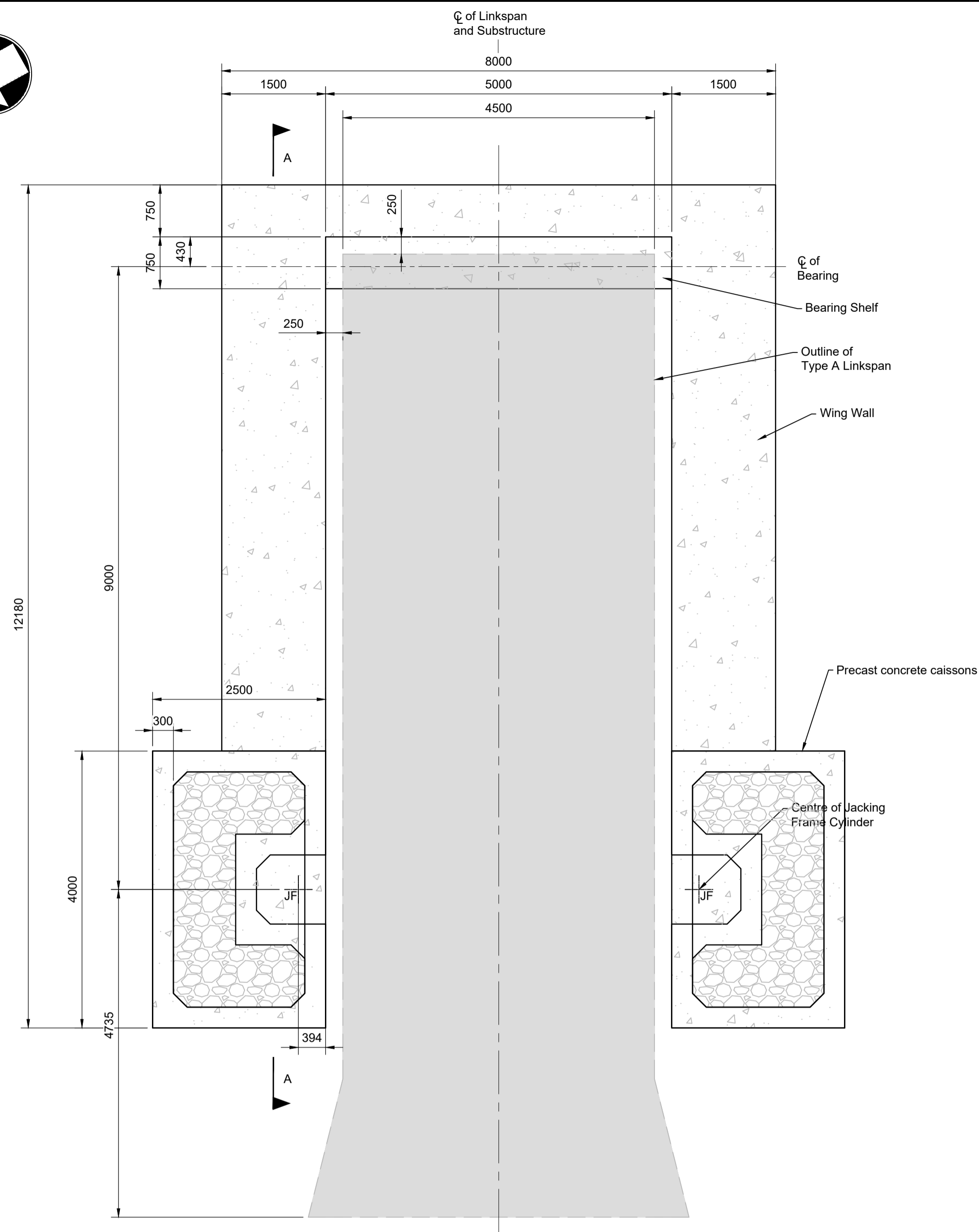
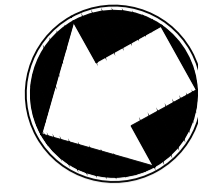
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Title  
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Transport BC Support  
Grutness Ferry Terminal  
Site Plan  
Marine and Terrestrial Works

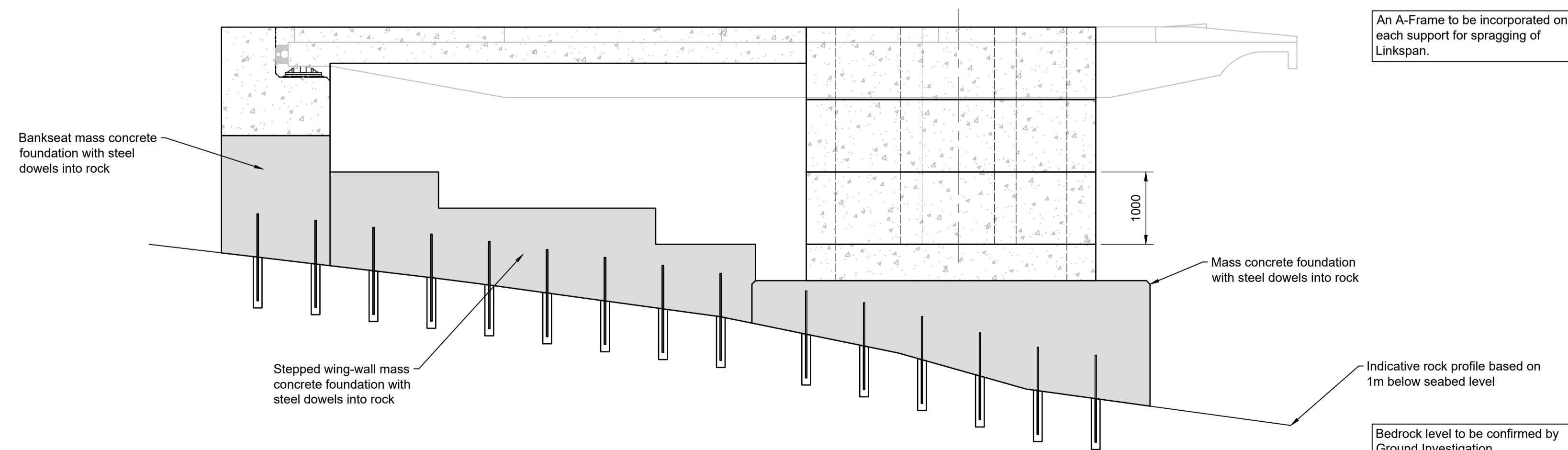
Designed	M Kirkpatrick	MK	Eng check	R Crewe	RC
Drawn	R Kilgour	RK	Coordination	M Kirkpatrick	MK
Dwg check	R Crewe	RC	Approved	M Ross	MR
Scale at A1	Status	Rev	Security		
1:500	PRE	P01	STD		

Drawing Number  
**Figure 2.5**





Plan of Linkspan Caisson Substructure  
Scale 1:50



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

- Notes
- All levels are in metres about Chart Datum (mACD).
  - All dimensions are in metres unless otherwise noted.
  - Chart Datum is 0.92m below Ordnance Datum.
  - 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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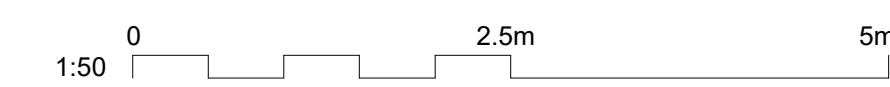
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Title  
**Shetland Inter Island  
Transport BC Support  
Grutness Ferry Terminal  
Proposed Structure - Linkspan**

Designed	R Crewe	RC	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		

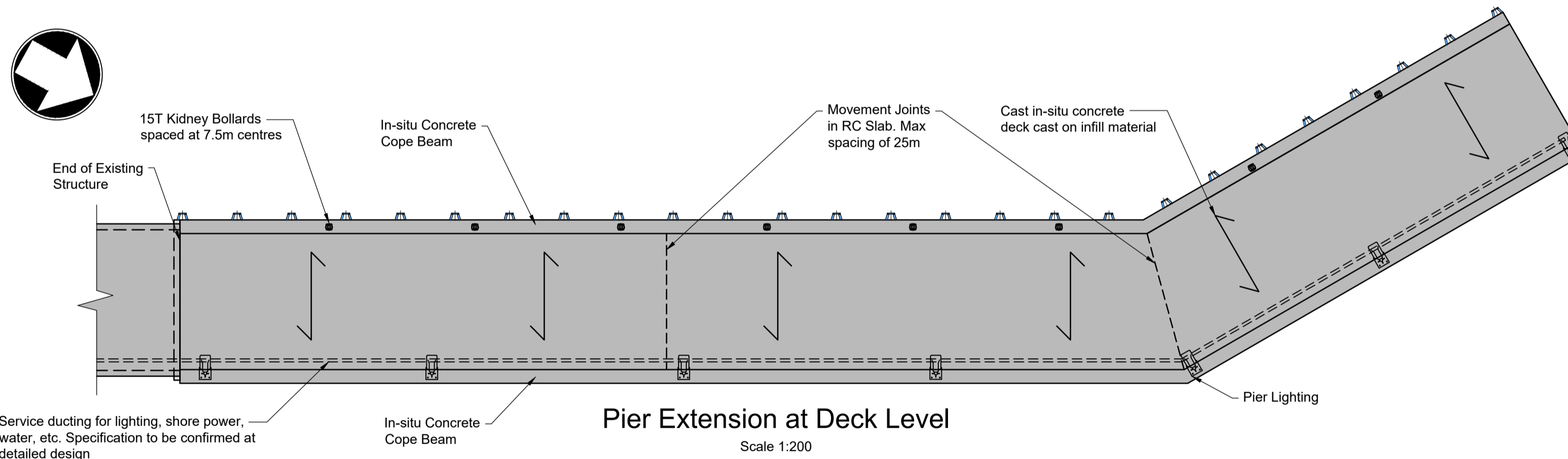
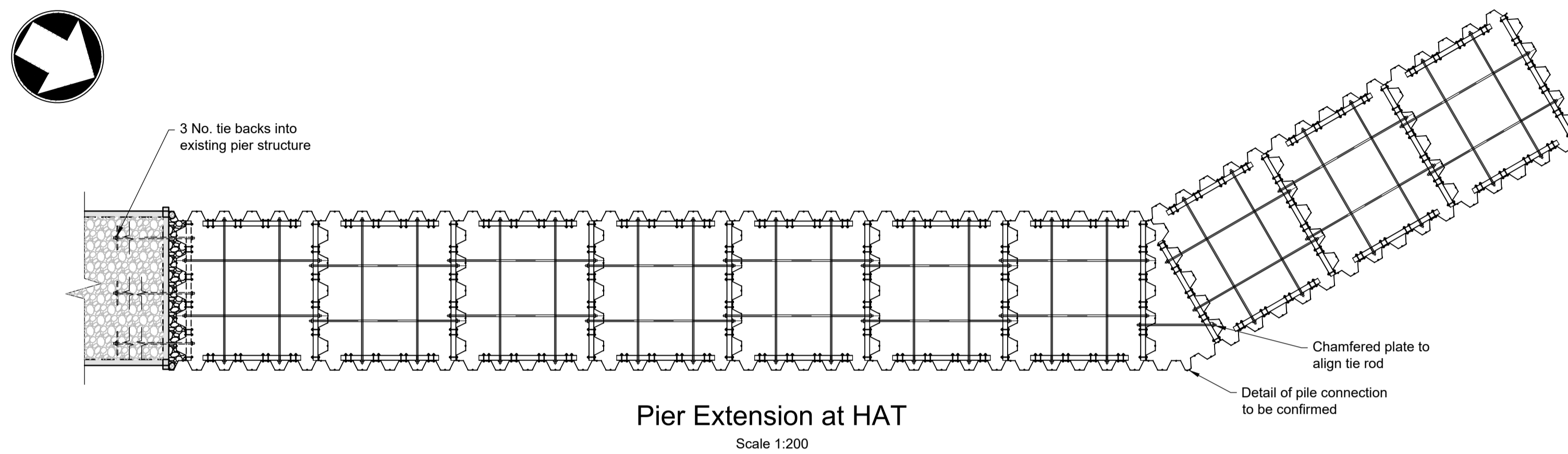
Drawing Number  
**Figure 2.6**





SHEET PILE CELL DIMENSIONS TO BE CONFIRMED AFTER SELECTION OF CRANE

FENDERS OMITTED FOR CLARITY



- Notes
1. This drawing is indicative only and is subject to design development
  2. Sheet pile walls to have cathodic protection and to be painted. Specification to be provided during detailed design

Key to symbols

- Grout Sock
- Existing Granular Fill Material
- New Granular Fill Material
- Precast Crib Lock Structure Elements
- Fenders

Reference drawings

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Title  
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Transport BC Support  
Grutness Ferry Terminal  
Proposed Structure - Pier Extension**

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  
**Figure 2.7**

