

NTS



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### 1) CURRENT CONDITION

1.1	Current Main Vessel	<b>Size:</b> <b>MV HENDRA</b> • Loa = 33.6 m • Beam = 9.4 m • Draught = 2.61 m  <b>Capacity:</b> • 95 passengers • 12 PCU	<b>MV LINGA</b> • Loa = 36.21m • Beam = 10.8m • Draught = 3.19m  • 95 passengers • 18 PCU
1.2	Breakwater	Rubble mound 125m long	
1.3	RoRo Ferry Berth	• 5 timber dolphins alongside a rubble mound supported by a series of timber struts. • 38m long mooring/berthing platform. • Vertical rubber D fenders.	
1.4	Linkspan	Small 4.5m wide x 13.915 m long	
1.5	Parking/waiting area	No dedicated parking	
1.6	Facilities	Waiting room & toilets	



Approx. scale 1:2000

- NOTES:**
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  5. IMAGERY FROM GOOGLE EARTH.
  6. BED LEVELS FROM ADMIRALTY CHART 3284 MOUL OF ESWICK LUNNA HOLM INCLUDING OUT SKERRIES.
  7. BERTH STRUCTURE REQUIRES FURTHER ASSESSMENT TO ESTABLISH NECESSARY REPAIRS/STRENGTHEN WORKS OR COMPLETE REPLACEMENT TO COMPLY WITH A 30 YEARS SERVICE LIFE.
  8. FENDERS AND BOLLARDS FOR OVERNIGHT MOORING REQUIRE FURTHER ASSESSMENT TO ESTABLISH THEIR ADEQUACY FOR LARGER VESSELS.
  9. IF BERTH STRUCTURE IS TO BE REPLACED IT IS RECOMMENDED TO UPGRADE / REPLACE LINKSPAN.

**SHETLAND TIDAL LEVELS**

LOCATION	MHWS	MHWN	MLWN	MLWS
Dury Voe	2.1	1.6	0.9	0.3

0 10 20 30 40 50  
1:1000  
m

0 20 40 60 80 100  
1:2000  
m

### 2) LIKE FOR LIKE OPTION Terminal upgrades

2.1	Vessel	<b>TYPE 1</b>
2.2	RoRo Ferry Berth	• Vessel slightly overhangs from berth if upgraded linkspan. • If used for overnight berthing it is recommended to extend the berth circa 10m. See note 7.
2.3	Linkspan	Upgrade to Large Linkspan (9.3m wide X 20.47m long) see note 9.
2.4	Dredging	Dredge pocket and maneuvering area to be dredged -3.5mCD

### 3) LARGER VESSEL Terminal upgrades

3.1	Vessel	<b>TYPE 2</b>
3.2	Linkspan	Upgrade to Large Linkspan (9.3m wide X 20.47m long) see note 9.
3.3	RoRo Ferry Berth	• Extension of RoRo berth circa 20m (see note 7). • Installation new bollards and fenders along the structure (see note 8).
3.4	Dredging	Dredge pocket and maneuvering area to be dredged -3.5mCD.

### 4) OVERNIGHT BERTH Proposed upgrades

4.1	• Extension of breakwater approximately 40m to provide additional shelter to berth position.
4.2	• Depending on main vessel, extension of the RoRo ferry berth may be required.



Reference Drawings:

C	18/07/16	SIC comments
B	15/06/16	PBA comments
A	25/04/16	Overnight berth included
Rev	Date	Details

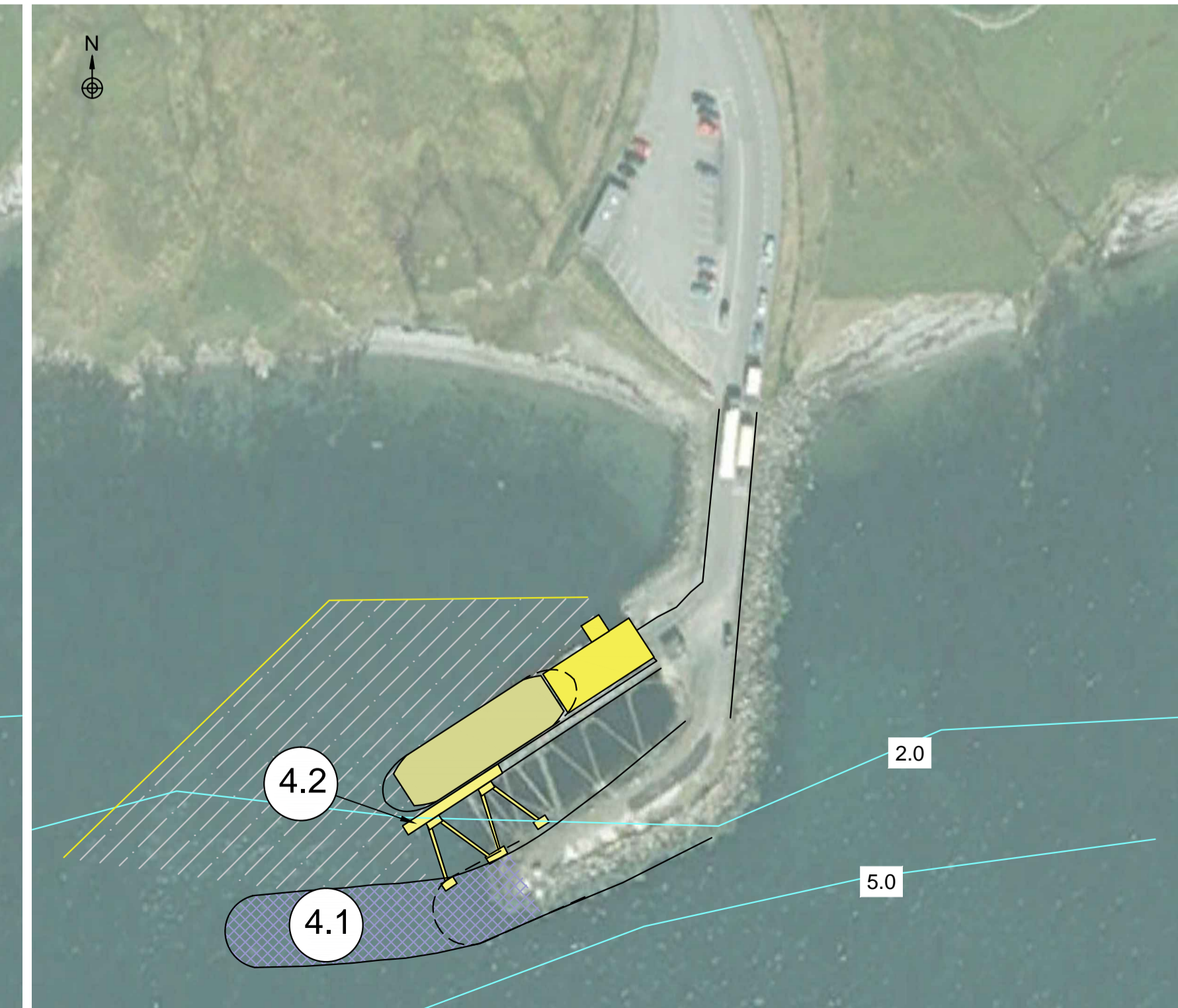
Client:



Approx. scale 1:1000



Approx. scale 1:1000



Approx. scale 1:1000



Project:  
**SHETLAND INTER-ISLAND TRANSPORT STUDY**

Title:  
**WHALSAY - LAXO OPTIONEERING**



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Status:	FOR DISCUSSION	Scale at A1 Original:	AS SHOWN
Drawn:	DP	Checked:	GR
Date:	18/03/16	Revision:	C
Drawing Number:	1537-01-703		

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