

NTS



NTS

TYPE 1

2.1 Vessel

RoRo

Berth

2.2 Inlet

2.3 Ferry

1) CURRENT CONDITION						
1.1	Current Main Vessel	Size: MV BIGGA  • Loa = 33 m  • Beam = 10.1 m  • Draught = 2.61 m  Capacity:  • 96 passengers  • 14 PCU	MV GEIRA • Loa = 30m • Beam = 9m • Draught = 2.61m • 96 passengers • 10 PCU			
1.2	Breakwater	Rubble mound 150m long				
1.3	RoRo Ferry Berth	<ul> <li>40m long berth composed by 3 timber dolphins supported against the breakwater with timber struts.</li> <li>Vertical rubber D type fenders</li> </ul>				
1.4	Linkspan	Small 4.5 m wide x 13.915 m long				
1.5	Parking/waiting area	90 lane meters approx.				
1.6	Facilities	Toilets & waiting room				

3.1 Vessel

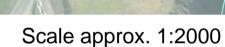
3.2 Linkspan

RoRo

3.5 Dredging

TYPE 2

See 2.2.



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	5.0
	2.0 1.3
	1.5
	2.0 5.0 10.0

### Indicative layout

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- No or minimum dredging required.
- Access road needs to be provided.
- Berth well sheltered.
- Mid Yell 1 4.2 option 2

2.0

0.0

4.2

MID-YELL PIER

option 1

- Provision of parking waiting area (possible land reclamation)
- Dredging required to provided vessel access.

# 4) NEW HARBOUR AT MID-YELL

<u> </u>	
<ul> <li>Approx. 160m rubble mound breakwater to provide a sheltered 50m lor</li> </ul>	n
RoRo berth equipped with a large linkspan (9.4m wide X 20.47m long).	

- Berth protected from southeasterly swell and possible northerly sea.
- Land reclamation required to provided access and parking/waiting area.
- Use/replacement of the existing Mid Yell pier (see note 7.)
- Use of existing road access.



## SHETLAND INTER-ISLAND TRANSPORT STUDY

### **BLUEMULL - GUTCHER OPTIONEERING**



47 Gillingham Street Westminster, London SW1V 1HS

1537-01-301

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Scale approx. 1:2000



Scale approx. 1:1000

2) LIKE FOR LIKE OPTION

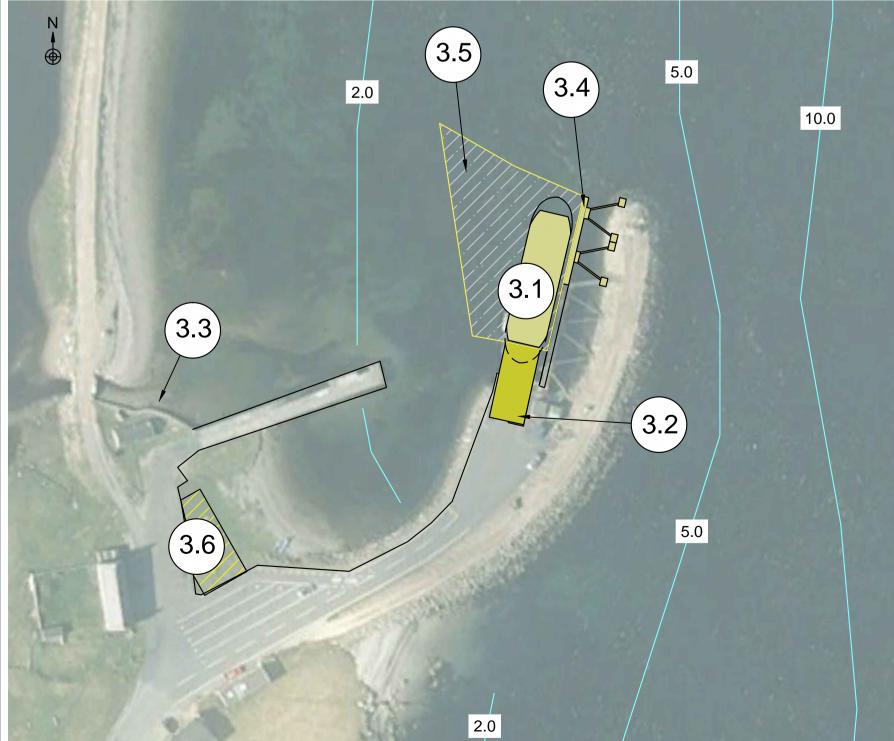
Terminal upgrades

ebb tide and causes siltation. Recommended to relocate.

• Extension of RoRo berth circa 15m (see note 7.)

Well sheltered. Safely overnight berthing.

Lagoon's inlet closeness to existing berth affects berthing operations during



3) LARGER VESSEL

Terminal upgrades

Upgrade to Large Linkspan (9.3m wide X 20.47m long)

Extension of RoRo berth circa 25m (see note 7).

Recommended to increase parking/waiting area.

Some minimum dredging could be required.

Ferry Berth Installation new bollards and fenders along the structure (see note 8).

Scale approx. 1:1000

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5. IMAGERY FROM GOOGLE EARTH.

6. BED LEVELS FROM ADMIRALTY CHART 3292 EASTERN APPROACHES TO YELL SOUND, COLGRAVE SOUND AND BLUEMULL SOUND.

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 REPLACE / UPGRADE LINKSPAN.

SHETLAND TIDAL LEVELS

LOCATION MHWS MHWN MLWN MLWS Bluemull Sound 2.6 1.9

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**ORIGINAL DIMENSION 90mm** 

Reference Drawings:

(4.1)