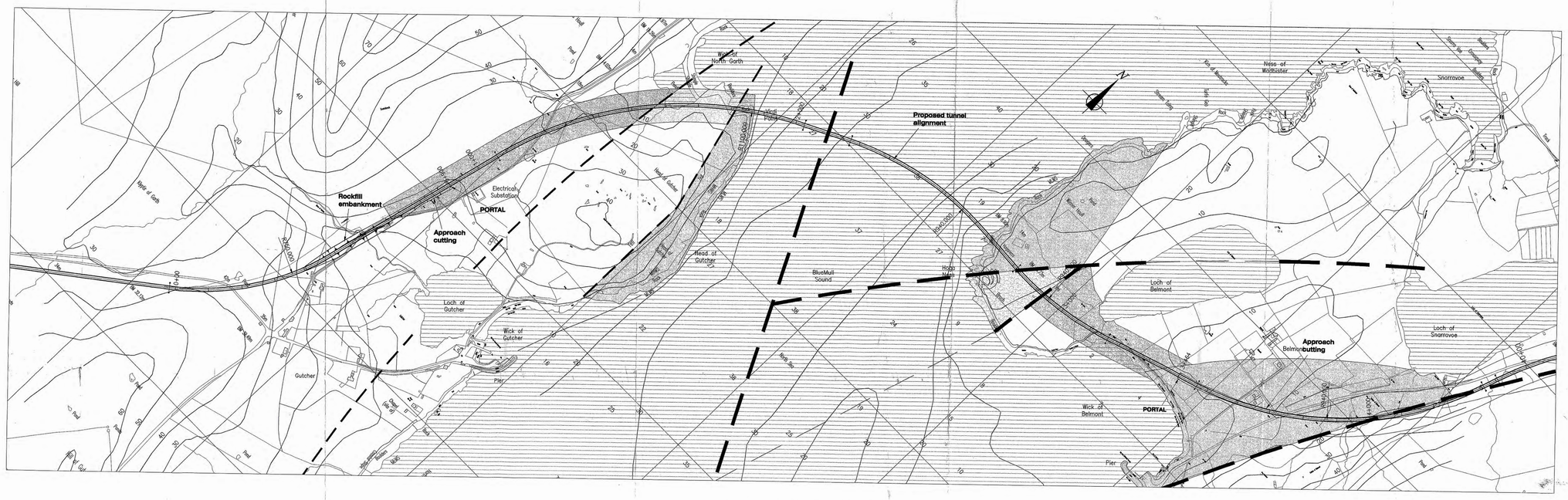


PROPOSED TUNNEL ALIGNMENT PLAN
1:5000 SCALE

Existing Ground Level (m AOD)	-37	-40	-37	-27	-18	0	-7	-9	-15	-18	-19	-23	-25	-23	-19	-20	-19	-9	0	-2	0	-11	-22	-27	-32	-35	-38	-32	-15	0	-15	-11	-5	-3	0	-3	-8	-11	-11	-11	-8	-11	-15	-21	-25
Proposed Road Level (m AOD)										6.174	-1.809	-9.793	-17.777	-25.761	-30.551	-33.745	-41.729	-49.713	-57.697	-65.680	-73.664	-81.648	-89.551	-94.730	-95.920	-93.128	-86.419	-78.419	-70.419	-62.490 / -62.419	-58.811 / -58.740	-54.419	-46.419	-38.419	-30.419	-22.419	-14.419	-6.630	-1.212	1.439						
Chainage (m)	0+000	0+100	0+200	0+300	0+400	0+500	0+550	0+600	0+700	0+800	0+809	0+900	1+000	1+100	1+200	1+250	1+300	1+400	1+500	1+600	1+700	1+800	1+900	2+000	2+100	2+200	2+300	2+400	2+500	2+600	2+700 / 2+730	2+800	2+900	3+000	3+100	3+200	3+300	3+400	3+500	3+600	3+700 / 3+730	3+800	3+900	4+000	4+100
Rock description (Assumed rock quality index Q) Typical rock support	Rockfill embankment/Cutting in rock										Very Poor (0.1–1.0) 125mm SFRS with 3m rockbolts at 1.5m spacing	Fair (4–10) 50mm SFRS with 3m rockbolts at 3m spacing	Good (10–40) 50mm SFRS as required with 3m rockbolts at 3m spacing										Fair (4–10) 50mm SFRS with 3m rockbolts at 2m spacing	Extremely Poor (0.01–0.1) 150mm SFRS with 3m rockbolts at 1m spacing	Fair (4–10) 50mm SFRS with 3m rockbolts at 2m spacing	Good (10–40) 50mm SFRS as required with 3m rockbolts at 3m spacing		Fair (4–10) 50mm SFRS with 3m rockbolts at 2m spacing	Extremely Poor (0.01–0.1) 150mm SFRS with 3m rockbolts at 1m spacing		Fair (4–10) 50mm SFRS with 3m rockbolts at 2m spacing	Good (10–40) 50mm SFRS as required with 3m rockbolts at 3m spacing		Fair (4–10) 50mm SFRS with 3m rockbolts at 2m spacing	Very Poor (0.1–1.0) 125mm SFRS with 3m rockbolts at 1.5m spacing	Cutting in rock						

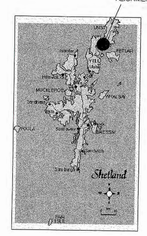
LONG SECTION
1:5000 HORIZONTAL SCALE
1:1000 VERTICAL SCALE

Notes:

1. All dimensions in metres unless otherwise noted.
2. All levels in metres above ordnance datum This drawing should be read in conjunction with Drg. T 01 21 001.
3. Rock grades, Q ratings and support details have been assigned on the basis of "solid" geological maps and have been provided solely to enable a cost estimate to be prepared.
4. Mapping is based on Ordnance Survey's 1:2500 digital mapping with the permission of the Controller of HMSO (C). Crown Copyright, Shetland Islands Council License No:- . . . . . .

LOCATION PLAN

ALIGNMENT LOCATION



KEY

- MICA SCHIST
- SCHIST
- HORNEBLENDE GNEISS
- SCHIST/GNEISS
- PLANE FOLIATED MICA PLAGIOCLASE GNEISS
- COARSE FOLIATED MICA PLAGIOCLASE GNEISS
- THRUST/DISLOCATION
- UNIT BOUNDARY

Revision	By	Chk'd	Auth'd	Date	Description

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Halcrow

Project

SHETLANDS FIXED LINKS

Drawing

YELL–UNST FIXED LINK
TUNNEL OPTION 2

Drawn by	SAB	Date: 17.10.00
Checked by		Date:
Authorised by		Date:

Drawing No. T 01 20 002 — Revision

Drawing Scale: 1:5000 & 1:1000

CAD Filename: PROJECTS\LT0015\T0120002.DWG