

**Notes:**

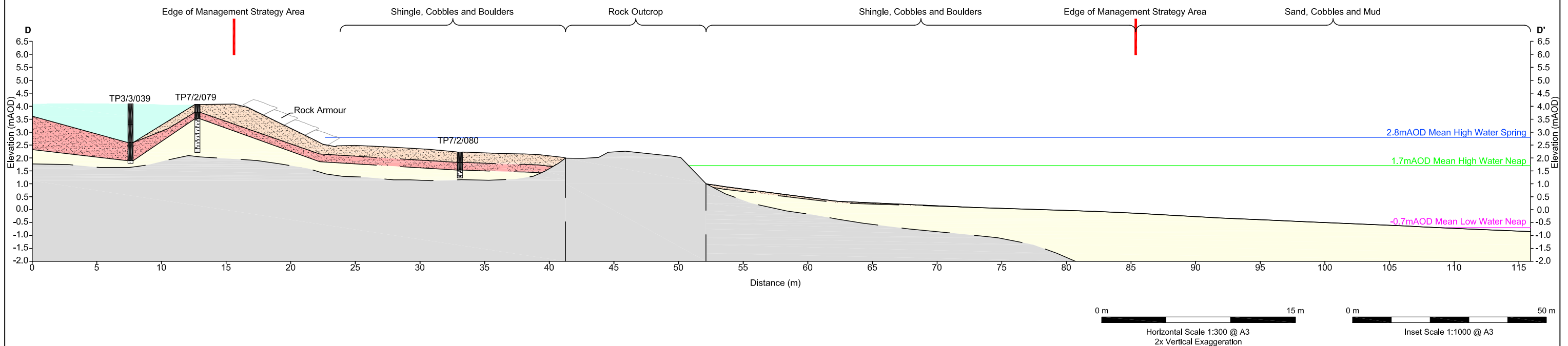
- Detailed description of Made Ground types provided in Interpretative Site Investigation Report (23218rr505).
- Cross-section transects developed from the Interpretive Site Investigation Report where applicable.
- The relative elevations and perspective of the intrusive locations in relation to the transect line have been normalised for the purpose of developing the schematic cross-section.

**Key**

- Management Strategy area boundaries
- Mean High Water Spring (MHWS) - 2.8m AOD
- Mean High Water Neap (MHWN) - 1.7m AOD
- Mean Low Water Neap (MLWN) - -0.7m AOD
- Mean Low Water Spring (MLWS) - -2.05m AOD
- Line of cross section

**Key to Cross Section**

- Made Ground Type A (radioactivity at background levels)
- Made Ground Type B (ash and clinker)
- Made Ground Type C (evidence of coastal processes)
- Natural deposits
- Bedrock
- Unknown extent/interface



REV A	DATE 20/06/14	FIRST ISSUE	DWN AB	CHK ML	APP JB
REVISIONS					
REV	DATE		DWN	CHK	APP

PROJECT TITLE: DALGETY BAY  
MANAGEMENT STRATEGY

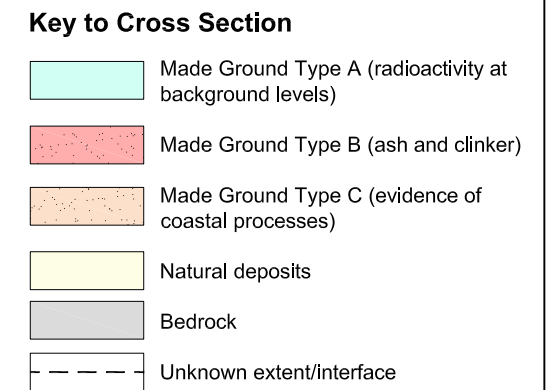
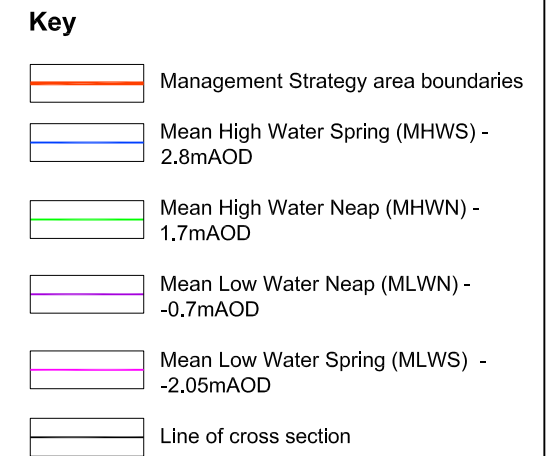
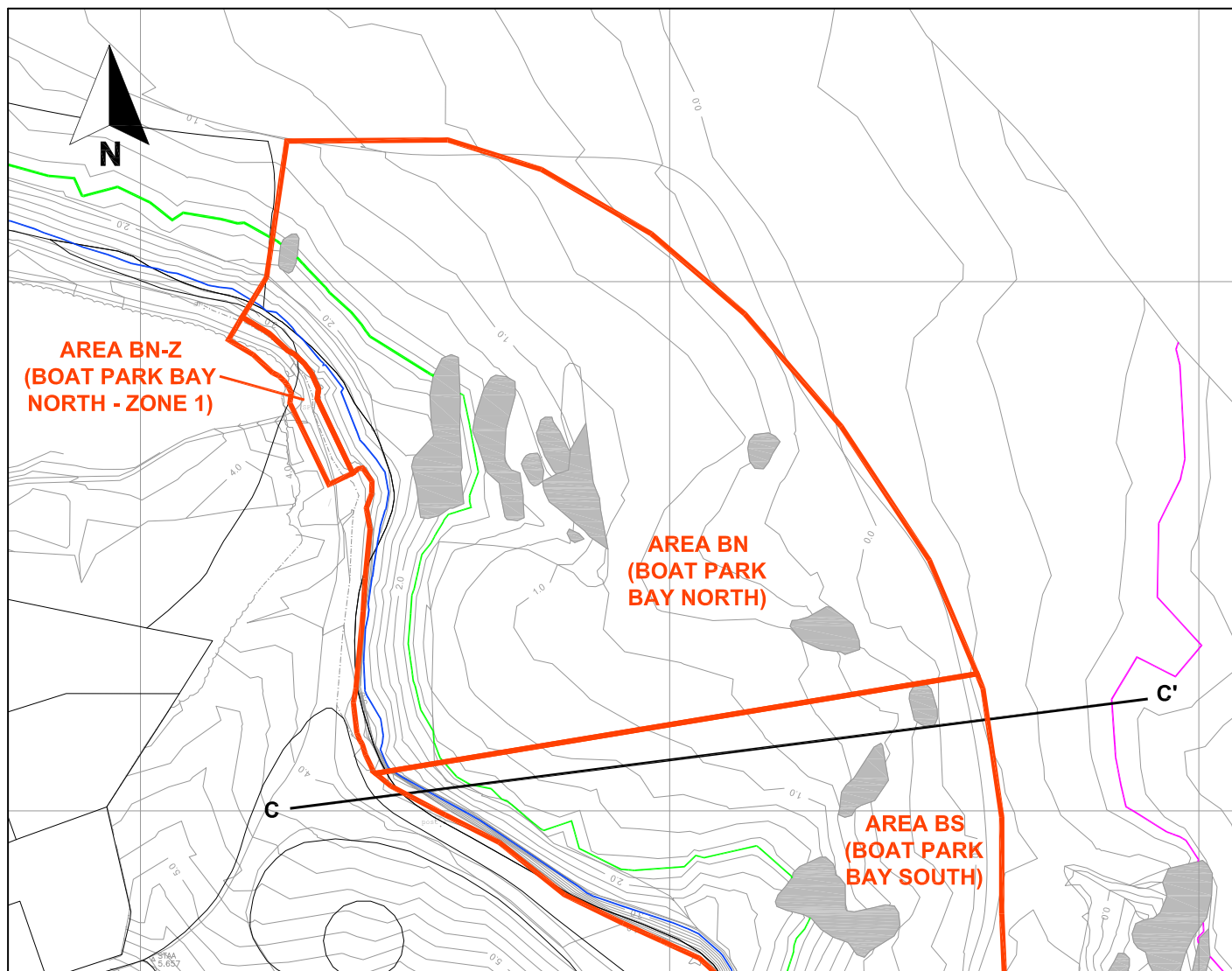
DRAWING TITLE: DRAWING 6  
CROSS SECTION D – D' TRANSECT THROUGH AREA BS

SCALES : AS SHOWN                      Original Drawing Size – A3

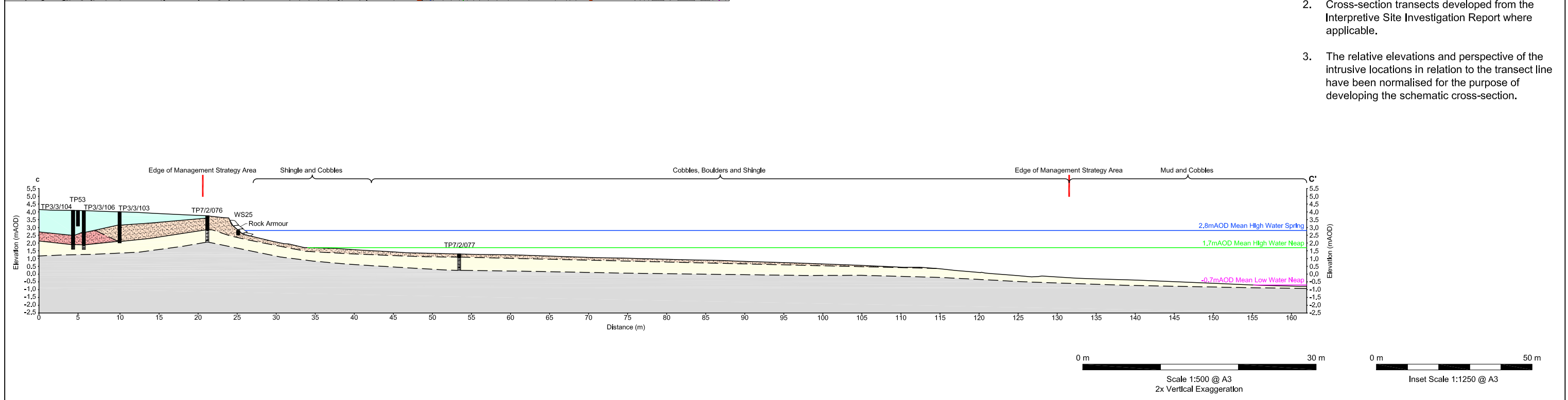
CLIENT:  
  
Prepared for the Ministry of Defence commission FTS3/ELMG/016

REF: \_\_\_\_\_

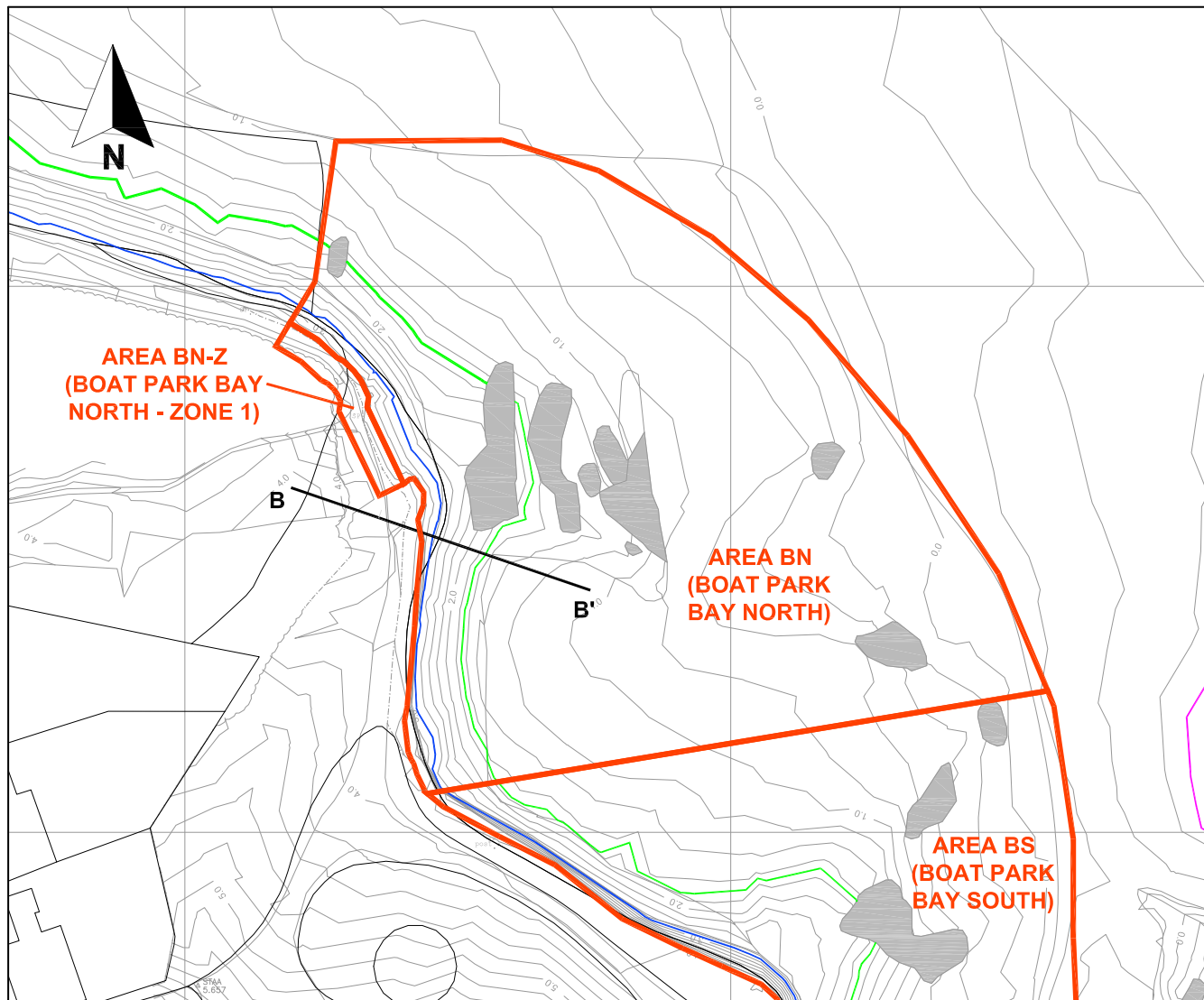
CANON COURT, ABBEY LAWN, ABBEY FOREGATE,  
SHREWSBURY SY2 5DE.  
TEL: (01743) 342000 FAX: (01743) 342010  
DRAWING No.  
23218/SHR/395



- Notes:**
- Detailed description of Made Ground types provided in Interpretative Site Investigation Report (23218rr505).
  - Cross-section transects developed from the Interpretive Site Investigation Report where applicable.
  - The relative elevations and perspective of the intrusive locations in relation to the transect line have been normalised for the purpose of developing the schematic cross-section.



REV A	DATE 20/06/14	FIRST ISSUE	DWN AB	CHK ML	APP JB	PROJECT TITLE: DALGETY BAY MANAGEMENT STRATEGY	CLIENT: 
REV	DATE	REVISIONS	DWN	CHK	APP	DRAWING TITLE: DRAWING 7 CROSS SECTION C – C' TRANSECT THROUGH AREA BN & BS	Prepared for the Ministry of Defence commission FTS3/ELMG/016
						SCALES : AS SHOWN	Original Drawing Size – A3
							REF: _____
							 CANON COURT, ABBEY LAWN, ABBEY FOREGATE, SHREWSBURY SY2 5DE. TEL: (01743) 342000 FAX: (01743) 342010 DRAWING No. 23218/SHR/394



**Key**

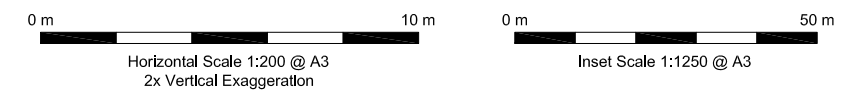
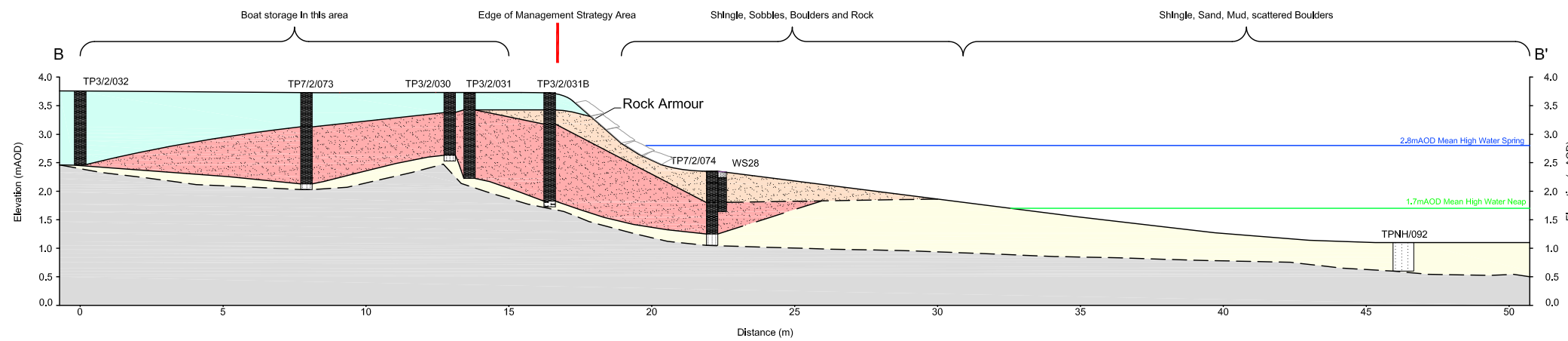
- Management Strategy area boundaries
- Mean High Water Spring (MHWS) - 2.8mAOD
- Mean High Water Neap (MHWN) - 1.7mAOD
- Mean Low Water Neap (MLWN) - -0.7mAOD
- Mean Low Water Spring (MLWS) - -2.05mAOD
- Line of cross section

**Key to Cross Section**

- Made Ground Type A (radioactivity at background levels)
- Made Ground Type B (ash and clinker)
- Made Ground Type C (evidence of coastal processes)
- Natural deposits
- Bedrock
- Unknown extent/interface

**Notes:**

1. Detailed description of Made Ground types provided in Interpretative Site Investigation Report (23218rr505).
2. Cross-section transects developed from the Interpretive Site Investigation Report where applicable.
3. The relative elevations and perspective of the intrusive locations in relation to the transect line have been normalised for the purpose of developing the schematic cross-section.



REV A	DATE 20/06/14	FIRST ISSUE	DWN AB	CHK ML	APP JB
REVISIONS					
REV	DATE		DWN	CHK	APP

PROJECT TITLE: DALGETY BAY  
MANAGEMENT STRATEGY

DRAWING TITLE: DRAWING 8  
CROSS SECTION B – B' TRANSECT THROUGH AREA BN

SCALES : AS SHOWN      Original Drawing Size – A3

CLIENT: Defence Infrastructure Organisation

Prepared for the Ministry of Defence commission FTS3/ELMG/016

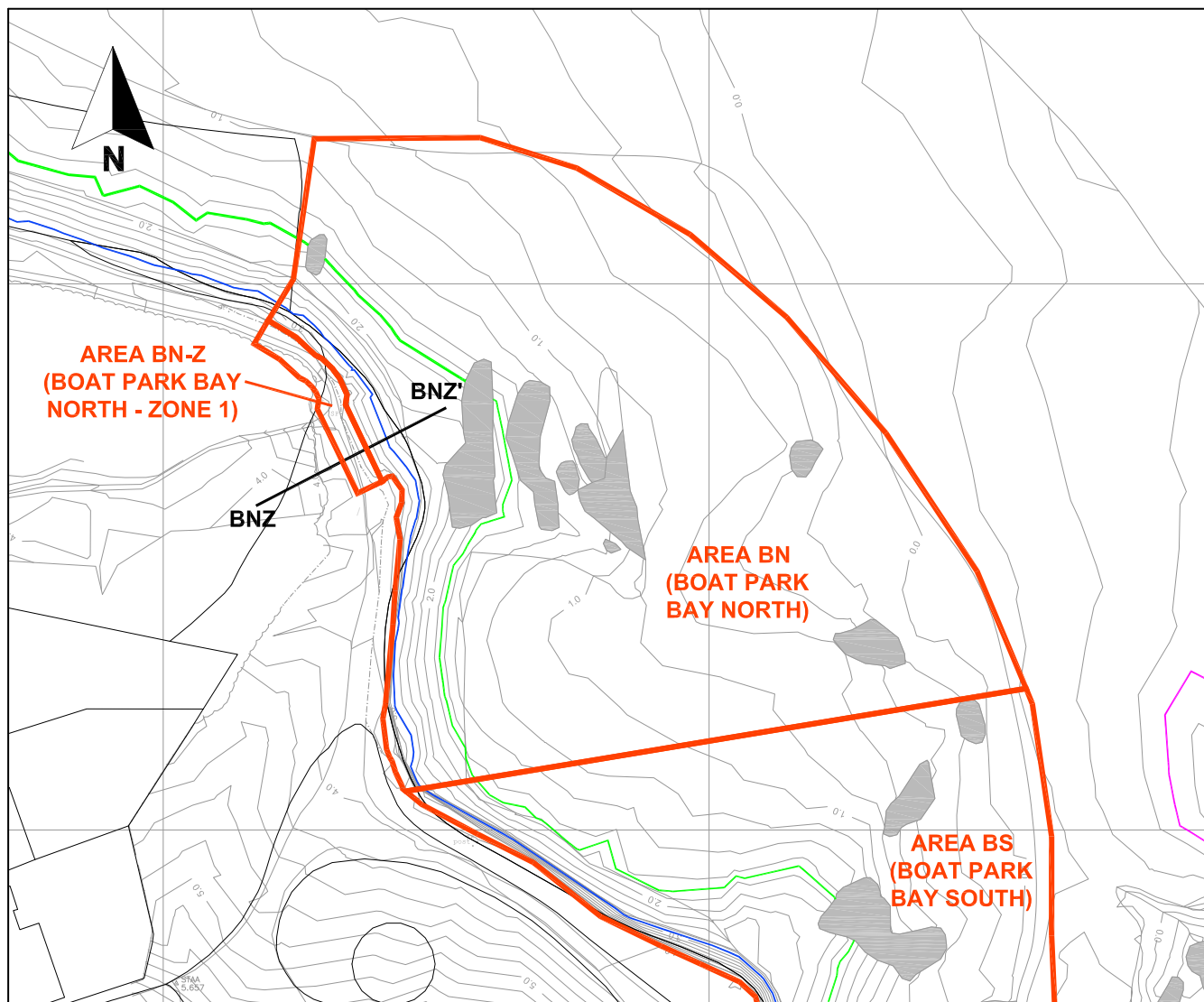
REF: \_\_\_\_\_

amec

CANON COURT, ABBEY LAWN, ABBEY FOREGATE, SHREWSBURY SY2 5DE.  
TEL: (01743) 342000 FAX: (01743) 342010

DRAWING No. 23218/SHR/393

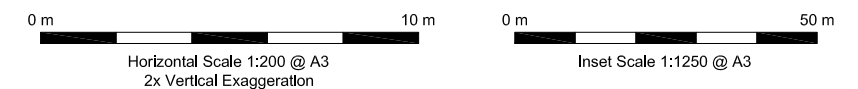
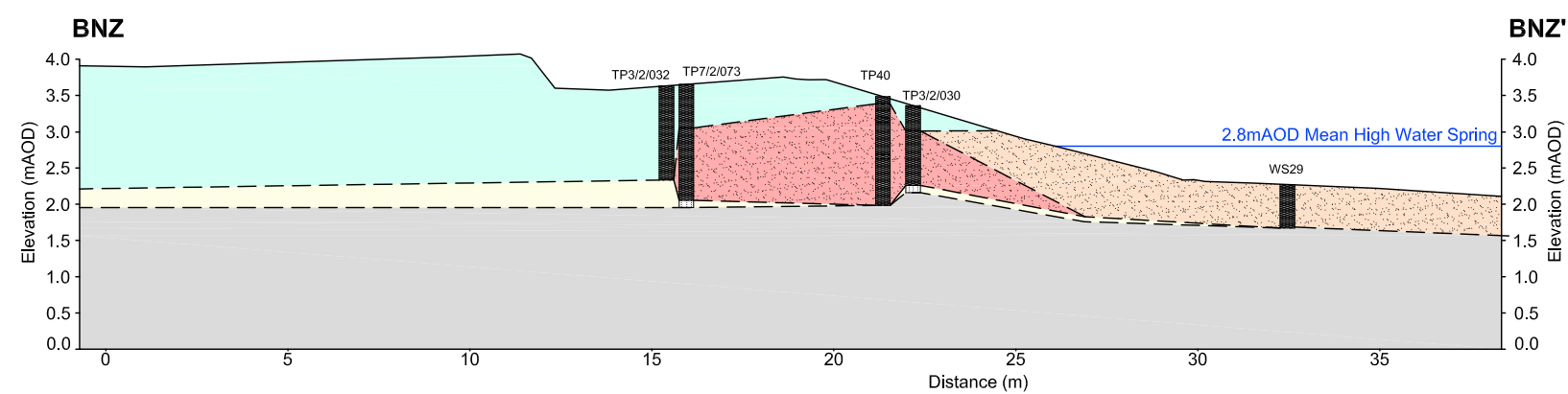




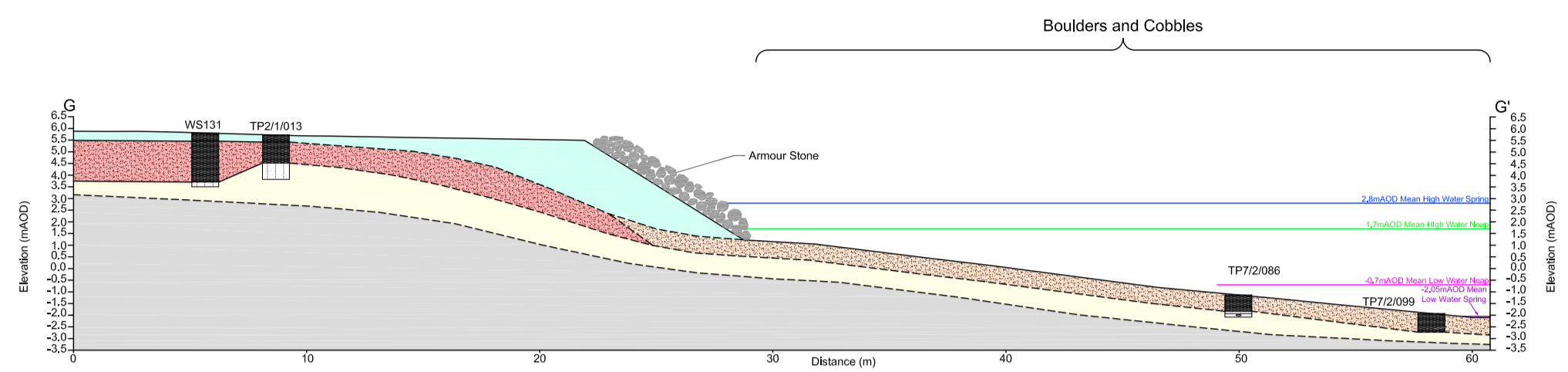
- Key**
- Management Strategy area boundaries
  - Mean High Water Spring (MHWS) - 2.8m AOD
  - Mean High Water Neap (MHWN) - 1.7m AOD
  - Mean Low Water Neap (MLWN) - -0.7m AOD
  - Mean Low Water Spring (MLWS) - -2.05m AOD
  - Line of cross section

- Key to Cross Section**
- Made Ground Type A (radioactivity at background levels)
  - Made Ground Type B (ash and clinker)
  - Made Ground Type C (evidence of coastal processes)
  - Natural deposits
  - Bedrock
  - Unknown extent/interface

- Notes:**
1. Detailed description of Made Ground types provided in Interpretative Site Investigation Report (23218rr505).
  2. Cross-section transects developed from the Interpretative Site Investigation Report where applicable.
  3. The relative elevations and perspective of the intrusive locations in relation to the transect line have been normalised for the purpose of developing the schematic cross-section.



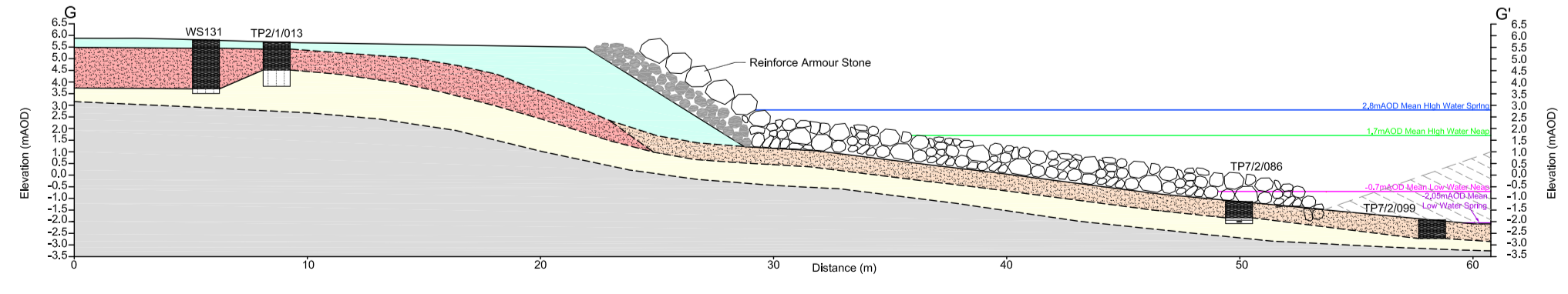
REV A	DATE 20/06/14	FIRST ISSUE	DWN AB	CHK ML	APP JB	PROJECT TITLE: DALGETY BAY MANAGEMENT STRATEGY	CLIENT: 
REVISIONS			DWN	CHK	APP	DRAWING TITLE: DRAWING 9 SECTION BNZ – BNZ' TRANSECT THROUGH AREA BN	Prepared for the Ministry of Defence commission FTS3/ELMG/016
REV	DATE		DWN	CHK	APP	SCALES : AS SHOWN Original Drawing Size – A3	DRAWING No. 23218/SHR/413



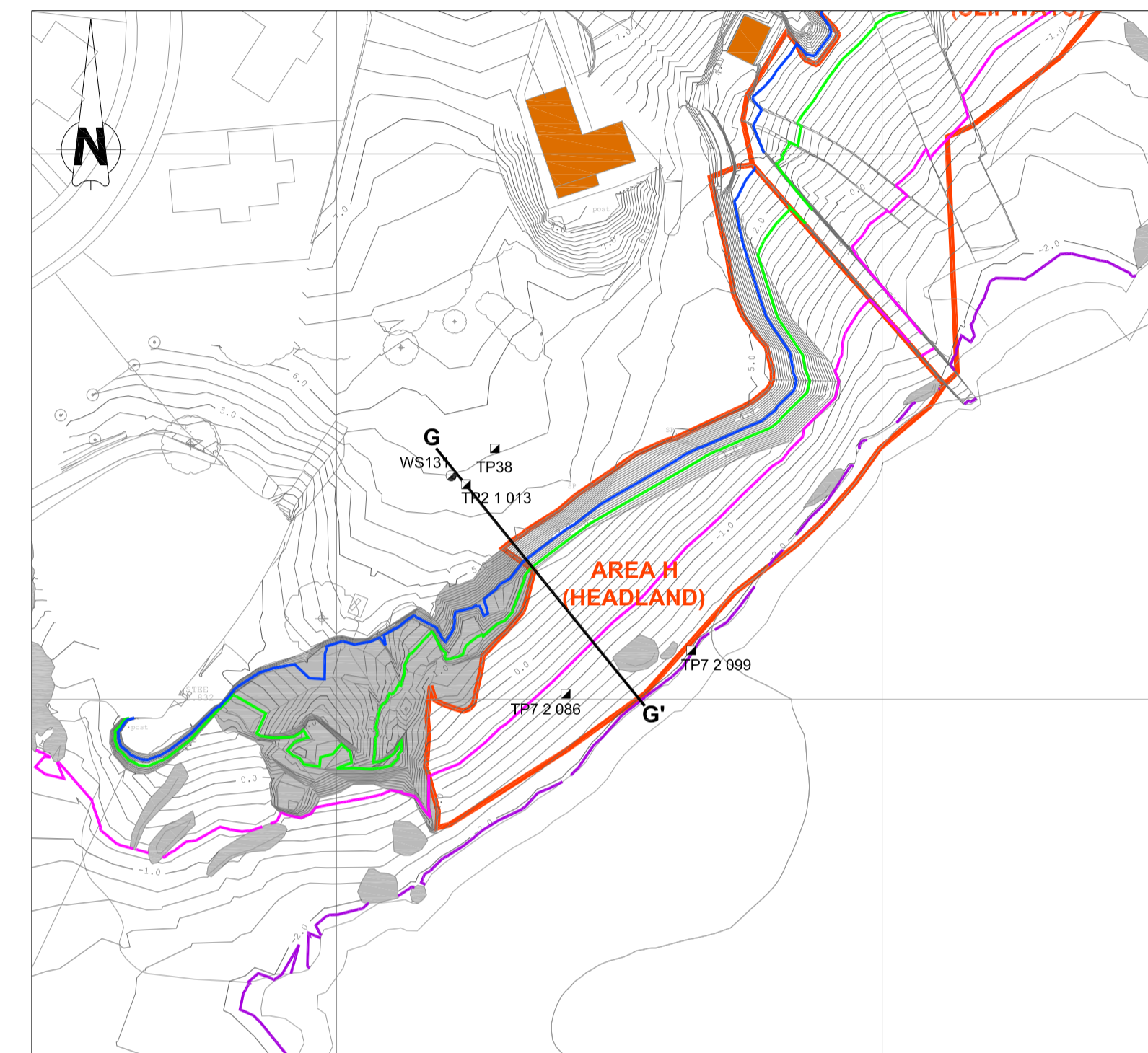
CURRENT  
SCALE 1:250



OPTION H4: REINFORCE ARMOUR STONE AND EXTEND ROCK ARMOUR OVER ALL OF FORESHORE  
SCALE 1:250



OPTION H7G: REINFORCE ARMOUR STONE, EXTEND ROCK ARMOUR OVER ALL OF FORESHORE AND INSTALLATION OF MARINE BARRIER  
SCALE 1:250



PLAN  
SCALE 1:1000

DESCRIPTION					
REV	DATE	DESCRIPTION	DWN	CHK	APP
A	20/06/2014	FIRST ISSUE	AB	ML	JB
REVISIONS					
REV	DATE	DESCRIPTION	DWN	CHK	APP

- NOTES:
- Detailed description of Made Ground types provided in Interpretive Site Investigation Report (23218rr505).
  - Cross-section transects developed from the Interpretive Site Investigation Report where applicable.
  - The relative elevations and perspective of the intrusive locations in relation to the transect line have been normalised for the purpose of developing the schematic cross-section.

- KEY:
- Management Strategy area boundaries
  - Mean High Water Spring (MHWS) - 2.8mAOD
  - Mean High Water Neap (MHWN) - 1.7mAOD
  - Mean Low Water Neap (MLWN) - -0.7mAOD
  - Mean Low Water Spring (MLWS) - -2.05mAOD
  - Rock outcrops
  - Contour (mAOD)
  - Building
  - Line of cross section

- KEY TO CROSS SECTION:
- Made Ground Type A (radioactivity at background levels)
  - Made Ground Type B (ash and clinker)
  - Made Ground Type C (evidence of coastal processes)
  - Natural deposits
  - Bedrock
  - Unknown extent/interface
  - Intrusive location (see insert)
  - Existing rock armour
  - Proposed rock armour

Prepared for the Ministry of Defence commission FTS/ELMG/016

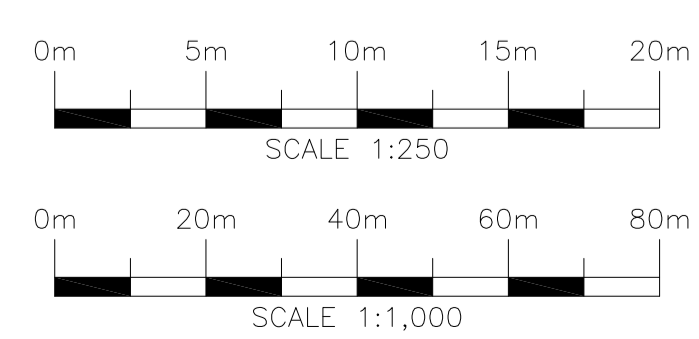
SCALES: AS SHOWN

PROJECT TITLE:  
DALGETY BAY  
MANAGEMENT STRATEGY

DRAWING TITLE:  
DRAWING 10  
SHORT-LISTED MANAGEMENT STRATEGY  
OPTIONS FOR AREA H THROUGH  
CROSS SECTION G - G' (SCHEMATIC)

CLIENT:  
 Defence Infrastructure Organisation

REF: \_\_\_\_\_

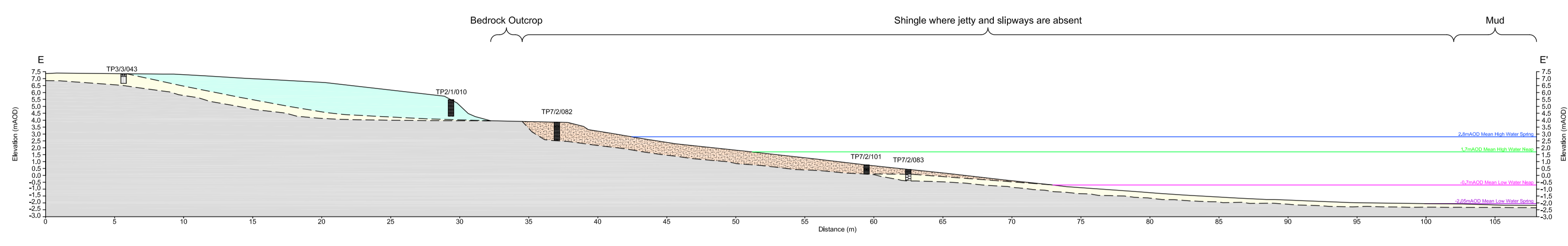


amec

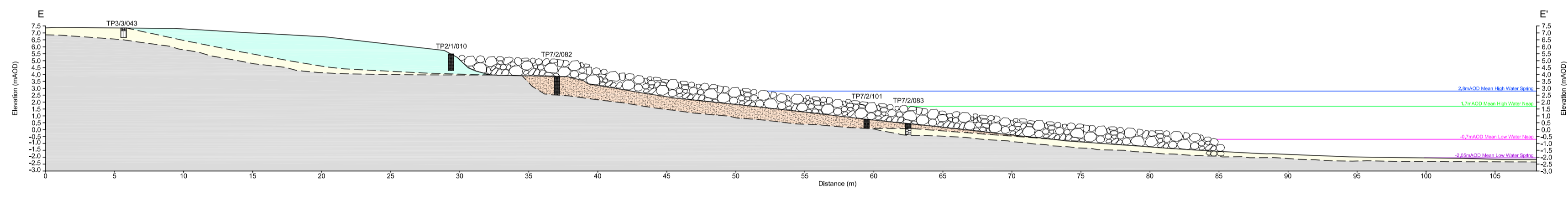
CANON COURT, ABBEY LAWN, ABBEY FOREGATE,  
SHREWSBURY SY2 5DE.  
TEL: (01743) 342000 FAX: (01743) 342010

DRAWING No. 23218/SHR/410

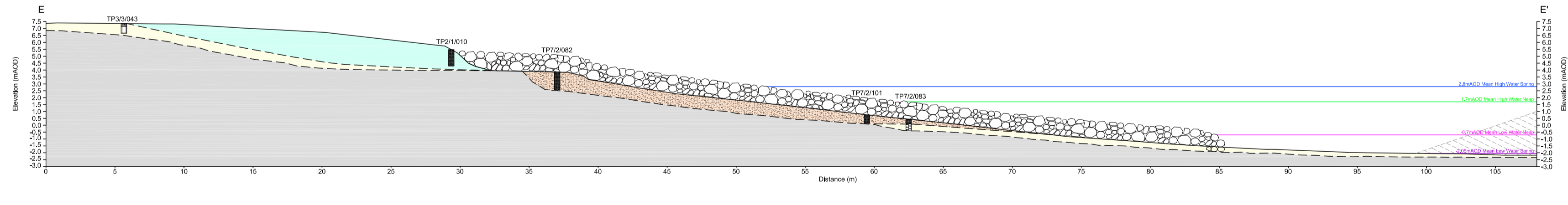




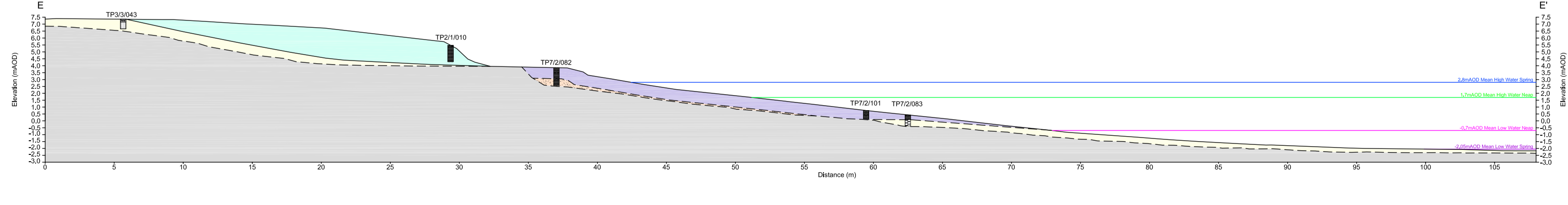
CURRENT  
SCALE 1:250



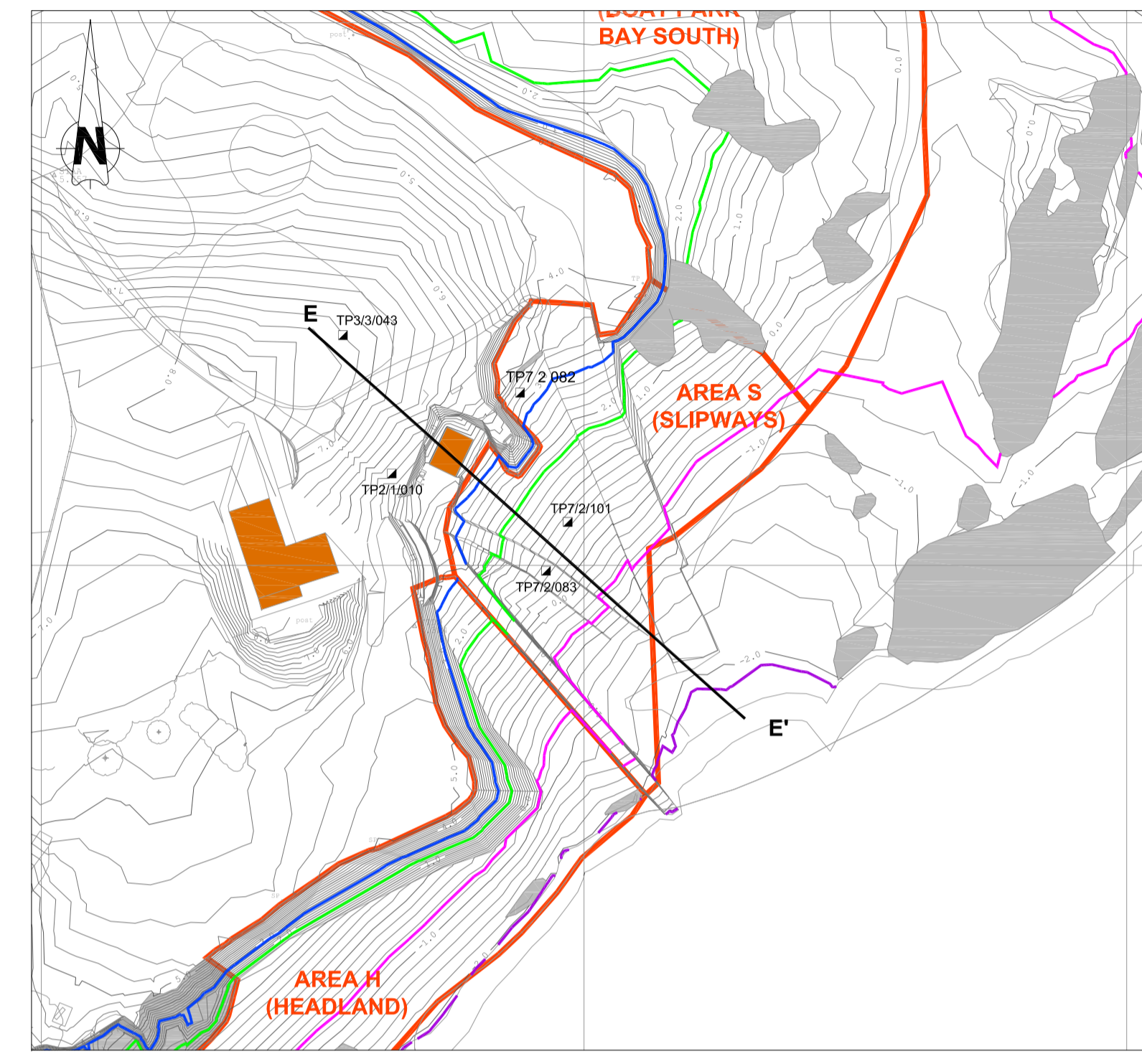
OPTION S5: REMOVAL OF RADIUM TO CRITERION 1, BUILD NEW SLIPWAY AND ROCK ARMOUR FORESHORE  
SCALE 1:250



OPTION S7B: REMOVAL OF RADIUM TO CRITERION 1, BUILD NEW SLIPWAY, ROCK ARMOUR FORESHORE AND CONSTRUCT MARINE BARRIER  
SCALE 1:250



OPTION S1: EXCAVATE FORESHORE, REMOVE SOURCES AND REPLACE  
SCALE 1:250



PLAN  
SCALE 1:1000

DESCRIPTION					
REV	DATE	DESCRIPTION	DWN	CHK	APP
A	20/06/2014	FIRST ISSUE	AB	ML	JB
REVISIONS					
REV	DATE	DESCRIPTION	DWN	CHK	APP

- NOTES:
- Detailed description of Made Ground types provided in Interpretive Site Investigation Report (23218rr505).
  - Cross-section transects developed from the Interpretive Site Investigation Report where applicable.
  - The relative elevations and perspective of the intrusive locations in relation to the transect line have been normalised for the purpose of developing the schematic cross-section.

- KEY:
- Management Strategy area boundaries
  - Mean High Water Spring (MHS) - 2.8m AOD
  - Mean High Water Neap (MHWN) - 1.7m AOD
  - Mean Low Water Neap (MLWN) - -0.7m AOD
  - Mean Low Water Spring (MLWS) - -2.05m AOD
  - Rock outcrops
  - Contour (m AOD)
  - Building
  - Line of cross section
- KEY TO CROSS SECTION:
- Made Ground Type A (radioactivity at background levels)
  - Made Ground Type B (ash and clinker)
  - Made Ground Type C (evidence of coastal processes)
  - Natural deposits
  - Bedrock
  - Unknown extent/interface
  - Intrusive location (see insert)
  - Proposed rock armour
  - Excavated, screened and replaced foreshore

Prepared for the Ministry of Defence commission FTS/ELMG/016

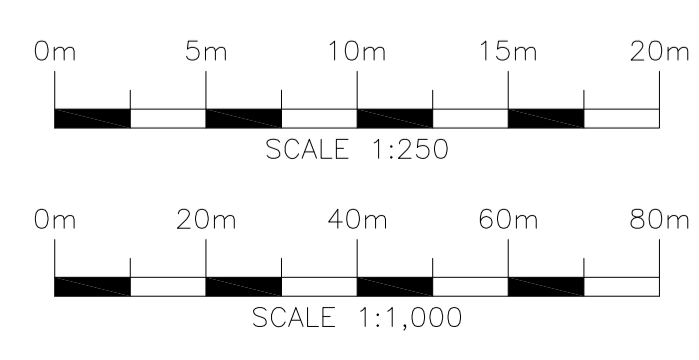
SCALES: AS SHOWN

PROJECT TITLE:  
DALGETY BAY  
MANAGEMENT STRATEGY

DRAWING TITLE:  
DRAWING 11  
SHORT-LISTED MANAGEMENT STRATEGY  
OPTIONS FOR AREA S THROUGH  
CROSS SECTION E - E' (SCHEMATIC)

CLIENT:

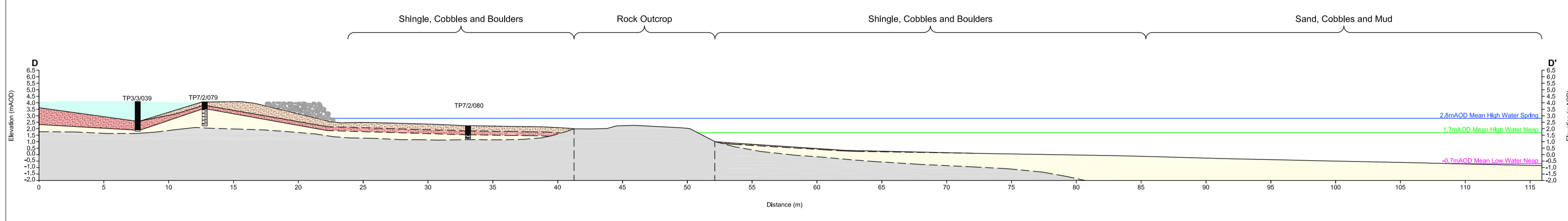
REF: \_\_\_\_\_



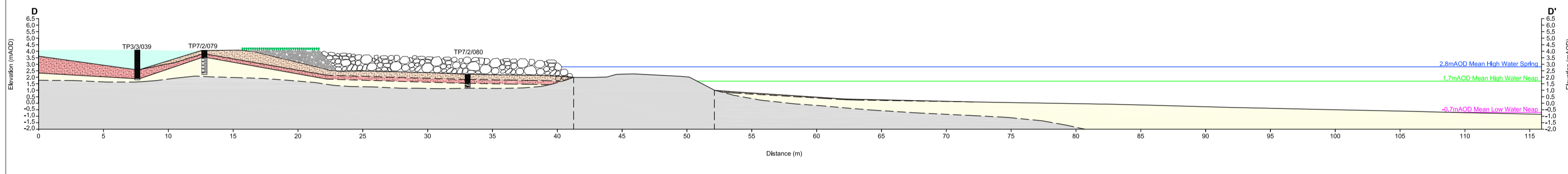
CANON COURT, ABBEY LAWN, ABBEY FOREGATE,  
SHREWSBURY SY2 5DE.  
TEL: (01743) 342000 FAX: (01743) 342010

DRAWING No. 23218/SHR/409

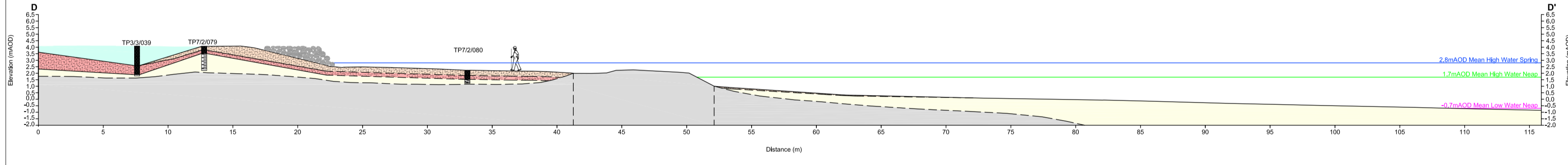




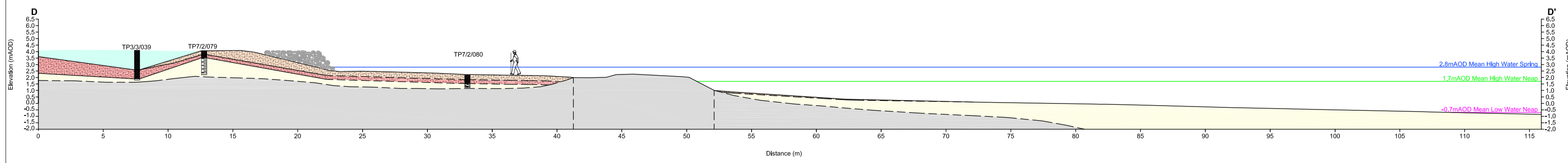
CURRENT  
SCALE 1:250



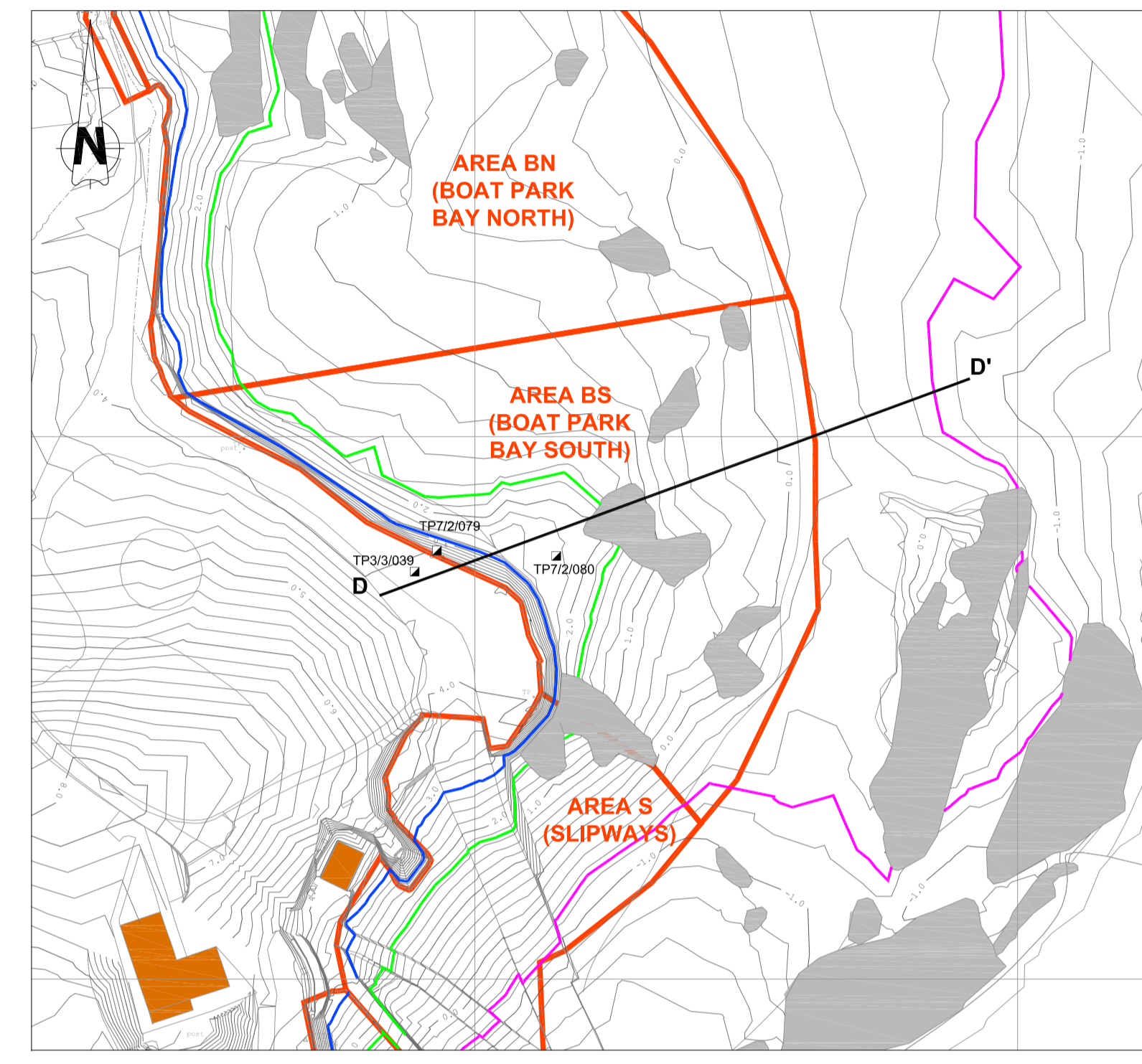
OPTION BS6: REMOVAL OF RADIUM TO CRITERION 1, IMPROVE AND EXTEND CURRENT ROCK ARMOUR OVER SANDY FORESHORE  
SCALE 1:250



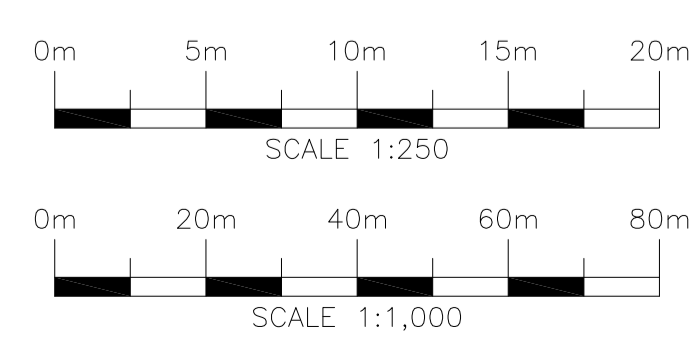
OPTION BS1: MONITOR AND REMOVE SOURCES  
SCALE 1:250



OPTION BS7G: REINFORCE/REPLACE CURRENT ROCK ARMOUR AND CONTINUE MONITORING  
SCALE 1:250



PLAN  
SCALE 1:1000



DESCRIPTION					
REV	DATE	DESCRIPTION	DWN	CHK	APP
A	20/06/2014	FIRST ISSUE	AB	ML	JB
REVISIONS					
REV	DATE	DESCRIPTION	DWN	CHK	APP

NOTES:

- Detailed description of Made Ground types provided in Interpretive Site Investigation Report (23218rr505).
- Cross-section transects developed from the Interpretive Site Investigation Report where applicable.
- The relative elevations and perspective of the intrusive locations in relation to the transect line have been normalised for the purpose of developing the schematic cross-section.

- KEY:
- Management Strategy area boundaries
  - Mean High Water Spring (MHWS) - 2.8mAOD
  - Mean High Water Neap (MHWN) - 1.7mAOD
  - Mean Low Water Neap (MLWN) - -0.7mAOD
  - Mean Low Water Spring (MLWS) - -2.05mAOD
  - Rock outcrops
  - Contour (mAOD)
  - Building
  - Line of cross section
- KEY TO CROSS SECTION:
- Made Ground Type A (radioactivity at background levels)
  - Made Ground Type B (ash and clinker)
  - Made Ground Type C (evidence of coastal processes)
  - Natural deposits
  - Bedrock
  - Unknown extent/interface
  - Intrusive location (see insert)
  - Existing rock armour
  - Proposed rock armour

Prepared for the Ministry of Defence commission FTS/ELMG/016

SCALES: AS SHOWN

PROJECT TITLE:  
DALGETY BAY  
MANAGEMENT STRATEGY

DRAWING TITLE:  
DRAWING 12  
SHORT-LISTED MANAGEMENT STRATEGY  
OPTIONS FOR AREA BS THROUGH  
CROSS SECTION D - D' (SCHEMATIC)

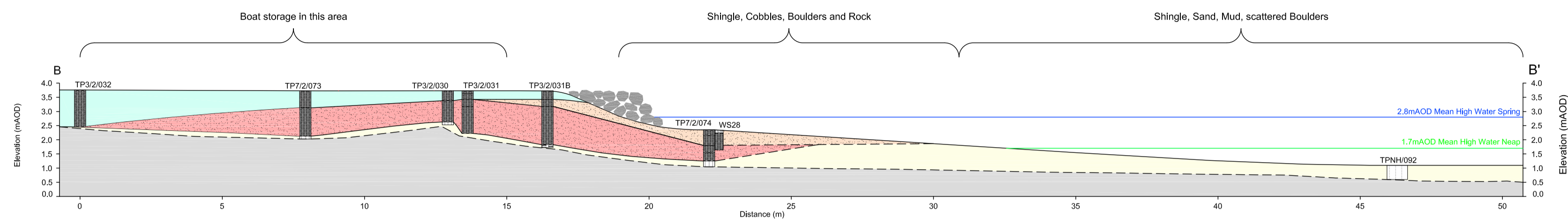
CLIENT:

REF:

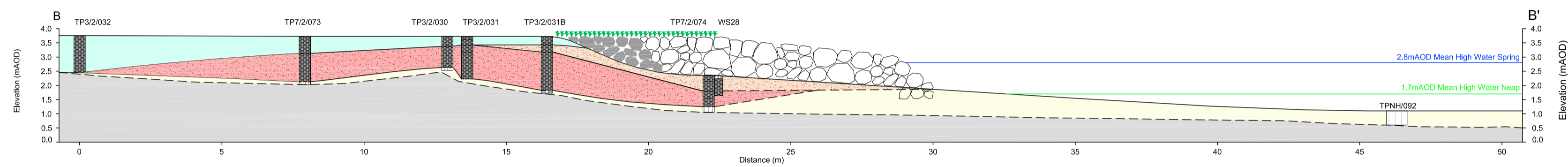
CANON COURT, ABBEY LAWN, ABBEY FOREGATE,  
SHREWSBURY SY2 5DE.  
TEL: (01743) 342000 FAX: (01743) 342010

DRAWING No. 23218/SHR/408

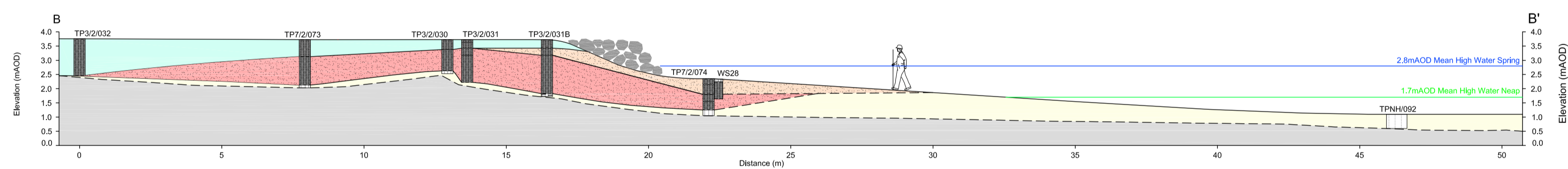




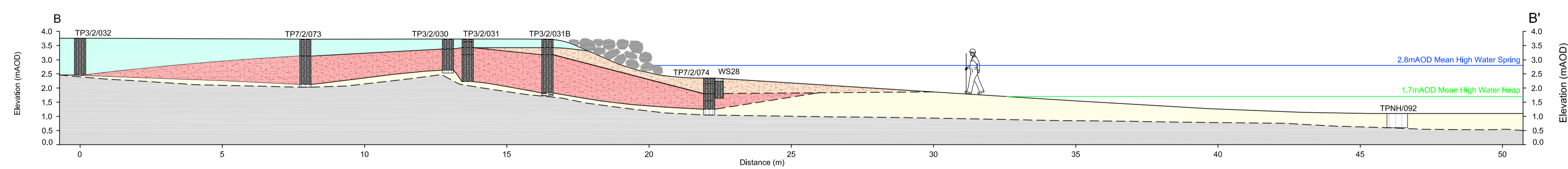
CURRENT  
SCALE 1:125



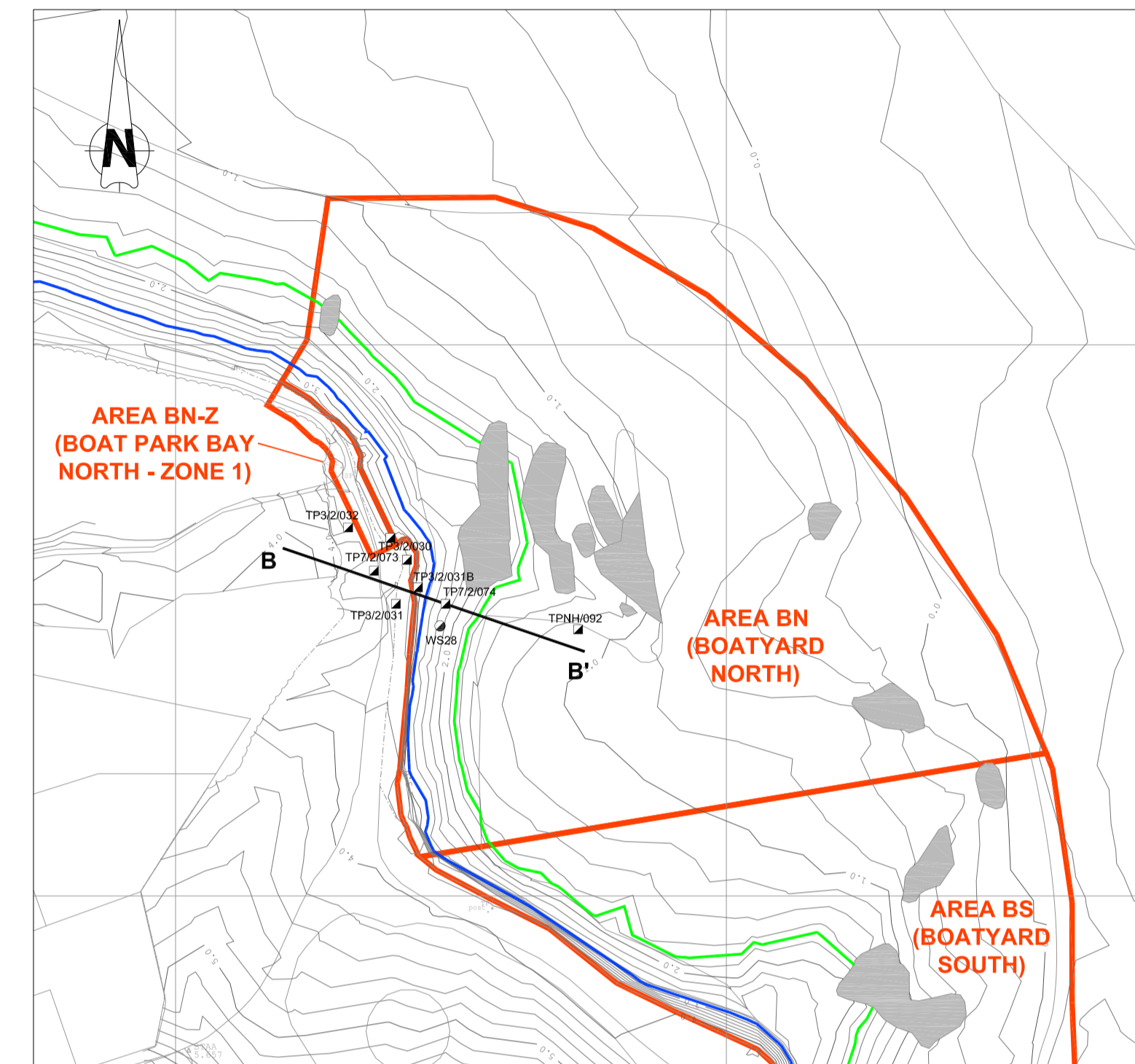
OPTION BN6: REMOVAL OF RADIUM TO CRITERION 1, IMPROVE AND EXTEND CURRENT ROCK ARMOUR OVER SANDY FORESHORE  
SCALE 1:125



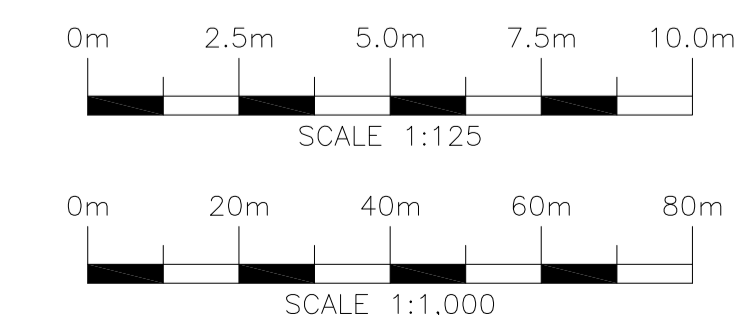
OPTION BN1: MONITOR AND REMOVE SOURCES  
SCALE 1:125



OPTION BN7G: REINFORCE/REPLACE CURRENT ROCK ARMOUR AND CONTINUE MONITORING  
SCALE 1:125



PLAN  
SCALE 1:1000



DESCRIPTION

REV	DATE	DESCRIPTION	DWN	CHK	APP
A	20/06/2014	FIRST ISSUE	AB	ML	JB

REVISIONS

REV	DATE	DESCRIPTION	DWN	CHK	APP

NOTES:

- Detailed description of Made Ground types provided in Interpretive Site Investigation Report (23218rr505).
- Cross-section transects developed from the Interpretive Site Investigation Report where applicable.
- The relative elevations and perspective of the intrusive locations in relation to the transect line have been normalised for the purpose of developing the schematic cross-section.

KEY:

- Management Strategy area boundaries
- Mean High Water Spring (MHS) - 2.8mAOD
- Mean High Water Neap (MHW) - 1.7mAOD
- Mean Low Water Neap (MLWN) - -0.7mAOD
- Mean Low Water Spring (MWS) - -2.05mAOD
- Rock outcrops
- Contour (mAOD)
- Line of cross section

KEY TO CROSS SECTION:

- Made Ground Type A (radioactivity at background levels)
- Made Ground Type B (ash and clinker)
- Made Ground Type C (evidence of coastal processes)
- Natural deposits
- Bedrock
- Unknown extent/interface
- Intrusive location (see insert)
- Existing rock armour
- Proposed rock armour

Prepared for the Ministry of Defence commission FT3/ELMG/016

SCALES: AS SHOWN

PROJECT TITLE:  
DALGETY BAY  
MANAGEMENT STRATEGY

DRAWING TITLE:  
DRAWING 13  
SHORT-LISTED MANAGEMENT STRATEGY  
OPTIONS FOR AREA BN THROUGH  
CROSS SECTION B - B' (SCHEMATIC)

CLIENT:



REF:

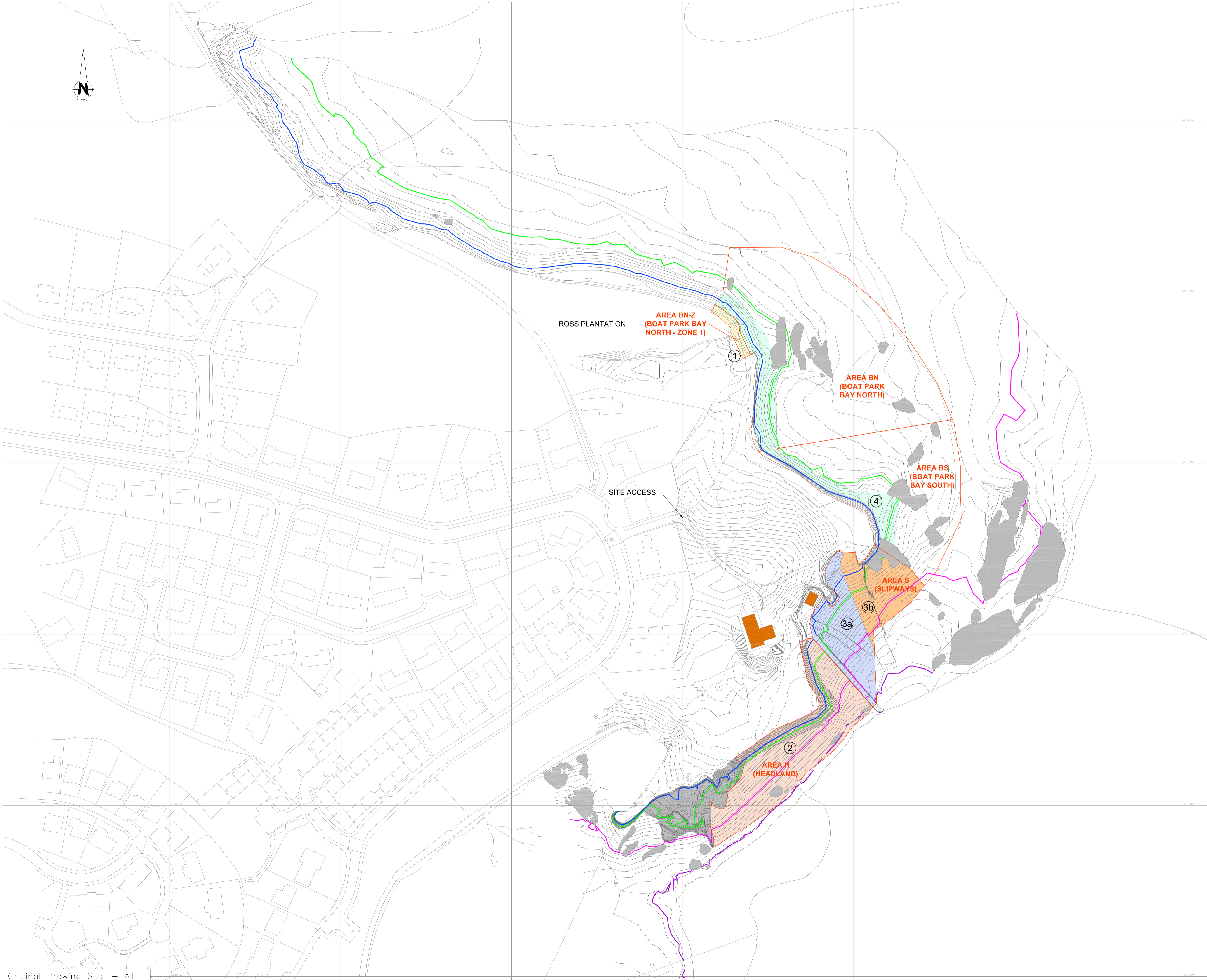


CANON COURT, ABBEY LAWN, ABBEY FOREGATE,  
SHREWSBURY SY2 5DE.  
TEL: (01743) 342000 FAX: (01743) 342010

DRAWING No.

23218/SHR/407





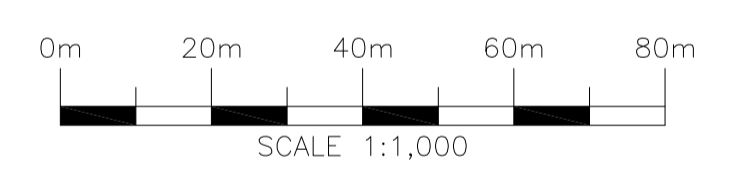
DESCRIPTION					
REV	DATE	DESCRIPTION	DWN	CHK	APP
A	20/06/2014	FIRST ISSUE	AB	ML	JB
REVISIONS					
REV	DATE	DESCRIPTION	DWN	CHK	APP

NOTES:  
 1. Enabling works to rock armouring in Area S, BS and BN includes removal of radium to meet Criterion 1.

KEY:

	Management Strategy area boundaries
	Mean High Water Spring (MHS) - 2.8m AOD
	Mean High Water Neap (MHN) - 1.7m AOD
	Mean Low Water Neap (MLWN) - -0.7m AOD
	Mean Low Water Spring (MLWS) - -2.05m AOD
	Rock outcrops
	Contour (mAOD)
	Building

- Outline Sequencing of Works
- 1 Localised excavation and rock armouring where ash and clinker is exposed (Area BN-Z).
  - 2 Reinforcing current coastal defences and rock armour over foreshore (Area H).
  - 3a Rock armour cover over Area S in two stages (3a then 3b) to ensure continued use of either jetty or slipway.
  - 3b
  - 4 Reinforce rock armouring across Area BS and Area BN with rock armour extending over strand.



Prepared for the Ministry of Defence commission FTS/ELMG/016

SCALES: 1:1000 @ A1

PROJECT TITLE:  
DALGETY BAY  
MANAGEMENT STRATEGY

DRAWING TITLE:  
DRAWING 14  
OUTLINE SEQUENCING OF  
MANAGEMENT STRATEGY

CLIENT:

REF: \_\_\_\_\_

CANON COURT, ABBEY LAWN, ABBEY FOREGATE,  
SHREWSBURY SY2 5DE.  
TEL: (01743) 342000 FAX: (01743) 342010

DRAWING No. 23218/SHR/399





DESCRIPTION						
REV	DATE	DESCRIPTION		DWN	CHK	APP
A	20/06/2014	FIRST ISSUE		AB	ML	JB
REVISIONS						
REV	DATE			DWN	CHK	APP

**NOTES:**

- Management Strategy area boundaries
- Mean High Water Spring (MHWS) - 2.8mAOD
- Mean High Water Neap (MHWN) - 1.7mAOD
- Mean Low Water Neap (MLWN) - -0.7mAOD
- Mean Low Water Spring (MLWS) - -2.05mAOD
- Rock outcrops
- Contour (mAOD)
- Building

**Extent of Proposed Work**

- Coastal protection to landward areas
- Cover system to beach/foreshore
- Indicative location of replacement slipway

0m 20m 40m 60m 80m

SCALE 1:1,000

Prepared for the Ministry of Defence commission FTSE/ELM/G16

SCALES: 1:1000 @ A1

PROJECT TITLE:  
DALGETY BAY  
MANAGEMENT STRATEGY

DRAWING TITLE:  
DRAWING 15  
EXTENT OF MANAGEMENT STRATEGY  
WORK

CLIENT:  


REF: \_\_\_\_\_

  
CANON COURT, ABBEY LAWN, ABBEY FOREGATE,  
SHREWSBURY SY2 5DE.  
TEL: (01743) 342000 FAX: (01743) 342010

DRAWING No. 23218/SHR/414