

A82 Tarbet to Inverarnan Upgrade

Drawings for DMRB Stage 1 Assessment Report

Transport Scotland

February 2014

Volume 2



CH2MHILL

FAIRHURST

This page is blank.

A82 Tarbet to Inverarnan Upgrade

Drawings for DMRB Stage 1 Assessment Report

Transport Scotland
February 2014

Volume 2

Document history

A82 Tarbet to Inverarnan Upgrade

DMRB Stage 1 Assessment Report – Volume 2 (Drawings)

Document No. 476416-015

This document has been issued and amended as follows:

Version	Date	Description	Created by	Verified by	Approved by
1.0	20.11.13	Draft	[REDACTED]	[REDACTED]	[REDACTED]
2.0	06.2.14	2 nd Draft	[REDACTED]	[REDACTED]	-
3.0	28.02.2014	FINAL	[REDACTED]	[REDACTED]	[REDACTED]

This page is blank.

Drawings

476416.0000.016: Corridor Locations

476416.0000.017: Study Area

476416.0000.050: Existing Layout and Features Sheet 1 of 22

476416.0000.051: Existing Layout and Features Sheet 2 of 22

476416.0000.052: Existing Layout and Features Sheet 3 of 22

476416.0000.053: Existing Layout and Features Sheet 4 of 22

476416.0000.054: Existing Layout and Features Sheet 5 of 22

476416.0000.055: Existing Layout and Features Sheet 6 of 22

476416.0000.056: Existing Layout and Features Sheet 7 of 22

476416.0000.057: Existing Layout and Features Sheet 8 of 22

476416.0000.058: Existing Layout and Features Sheet 9 of 22

476416.0000.059: Existing Layout and Features Sheet 10 of 22

476416.0000.060: Existing Layout and Features Sheet 11 of 22

476416.0000.061: Existing Layout and Features Sheet 12 of 22

476416.0000.062: Existing Layout and Features Sheet 13 of 22

476416.0000.063: Existing Layout and Features Sheet 14 of 22

476416.0000.064: Existing Layout and Features Sheet 15 of 22

476416.0000.065: Existing Layout and Features Sheet 16 of 22

476416.0000.066: Existing Layout and Features Sheet 17 of 22

476416.0000.067: Existing Layout and Features Sheet 18 of 22

476416.0000.068: Existing Layout and Features Sheet 19 of 22

476416.0000.069: Existing Layout and Features Sheet 20 of 22

476416.0000.070: Existing Layout and Features Sheet 21 of 22

476416.0000.071: Existing Layout and Features Sheet 22 of 22

476416.0000.100: Option 1 Tarbet to Inverarnan Plan & Section Sheet 1 of 11

476416.0000.101: Option 1 Tarbet to Inverarnan Plan & Section Sheet 2 of 11

476416.0000.102: Option 1 Tarbet to Inverarnan Plan & Section Sheet 3 of 11

476416.0000.103: Option 1 Tarbet to Inverarnan Plan & Section Sheet 4 of 11

476416.0000.104: Option 1 Tarbet to Inverarnan Plan & Section Sheet 5 of 11

476416.0000.105: Option 1 Tarbet to Inverarnan Plan & Section Sheet 6 of 11

476416.0000.106: Option 1 Tarbet to Inverarnan Plan & Section Sheet 7 of 11

476416.0000.107: Option 1 Tarbet to Inverarnan Plan & Section Sheet 8 of 11

476416.0000.108: Option 1 Tarbet to Inverarnan Plan & Section Sheet 9 of 11

476416.0000.109: Option 1 Tarbet to Inverarnan Plan & Section Sheet 10 of 11

476416.0000.110: Option 1 Tarbet to Inverarnan Plan & Section Sheet 11 of 11

476416.0000.200: Option 2 Arrochar to Inveruglas to Inverarnan Plan & Section Sheet 1 of 4

476416.0000.201: Option 2 Arrochar to Inveruglas to Inverarnan Plan & Section Sheet 2 of 4

476416.0000.202: Option 2 Arrochar to Inveruglas to Inverarnan Plan & Section Sheet 3 of 4

476416.0000.203: Option 2 Arrochar to Inveruglas to Inverarnan Plan & Section Sheet 4 of 4

476416.0000.300: Option 3 High Road (Tarbet to Geal Loch to Inverarnan) Sheet 1 of 10

476416.0000.301: Option 3 High Road (Tarbet to Geal Loch to Inverarnan) Sheet 2 of 10

476416.0000.302: Option 3 High Road (Tarbet to Geal Loch to Inverarnan) Sheet 3 of 10

476416.0000.303: Option 3 High Road (Tarbet to Geal Loch to Inverarnan) Sheet 4 of 10

476416.0000.304: Option 3 High Road (Tarbet to Geal Loch to Inverarnan) Sheet 5 of 10

476416.0000.305: Option 3 High Road (Tarbet to Geal Loch to Inverarnan) Sheet 6 of 10

476416.0000.306: Option 3 High Road (Tarbet to Geal Loch to Inverarnan) Sheet 7 of 10

476416.0000.307: Option 3 High Road (Tarbet to Geal Loch to Inverarnan) Sheet 8 of 10

476416.0000.308: Option 3 High Road (Tarbet to Geal Loch to Inverarnan) Sheet 9 of 10

476416.0000.309: Option 3 High Road (Tarbet to Geal Loch to Inverarnan) Sheet 10 of 10

476416.0500.001: Water Features Location Plan

476416.0500.002: Option 1: Engineering Assessment Drainage and Water Environment Sheet 1 of 5

476416.0500.003: Option 1 Engineering Assessment Drainage and Water Environment Sheet 2 of 5

476416.0500.004: Option 1 Engineering Assessment Drainage and Water Environment Sheet 3 of 5

476416.0500.005: Option 1 Engineering Assessment Drainage and Water Environment Sheet 4 of 5

476416.0500.006: Option 1 Engineering Assessment Drainage and Water Environment Sheet 5 of 5

476416.0500.015: Option 2 Engineering Assessment Drainage and Water Environment Sheet 1 of 2

476416.0500.016: Option 2 Engineering Assessment Drainage and Water Environment Sheet 2 of 2

476416.0500.020: Option 3 Engineering Assessment Drainage and Water Environment Sheet 1 of 5

476416.0500.021: Option 3 Engineering Assessment Drainage and Water Environment Sheet 2 of 5

476416.0500.022: Option 3 Engineering Assessment Drainage and Water Environment Sheet 3 of 5

476416.0500.023: Option 3 Engineering Assessment Drainage and Water Environment Sheet 4 of 5

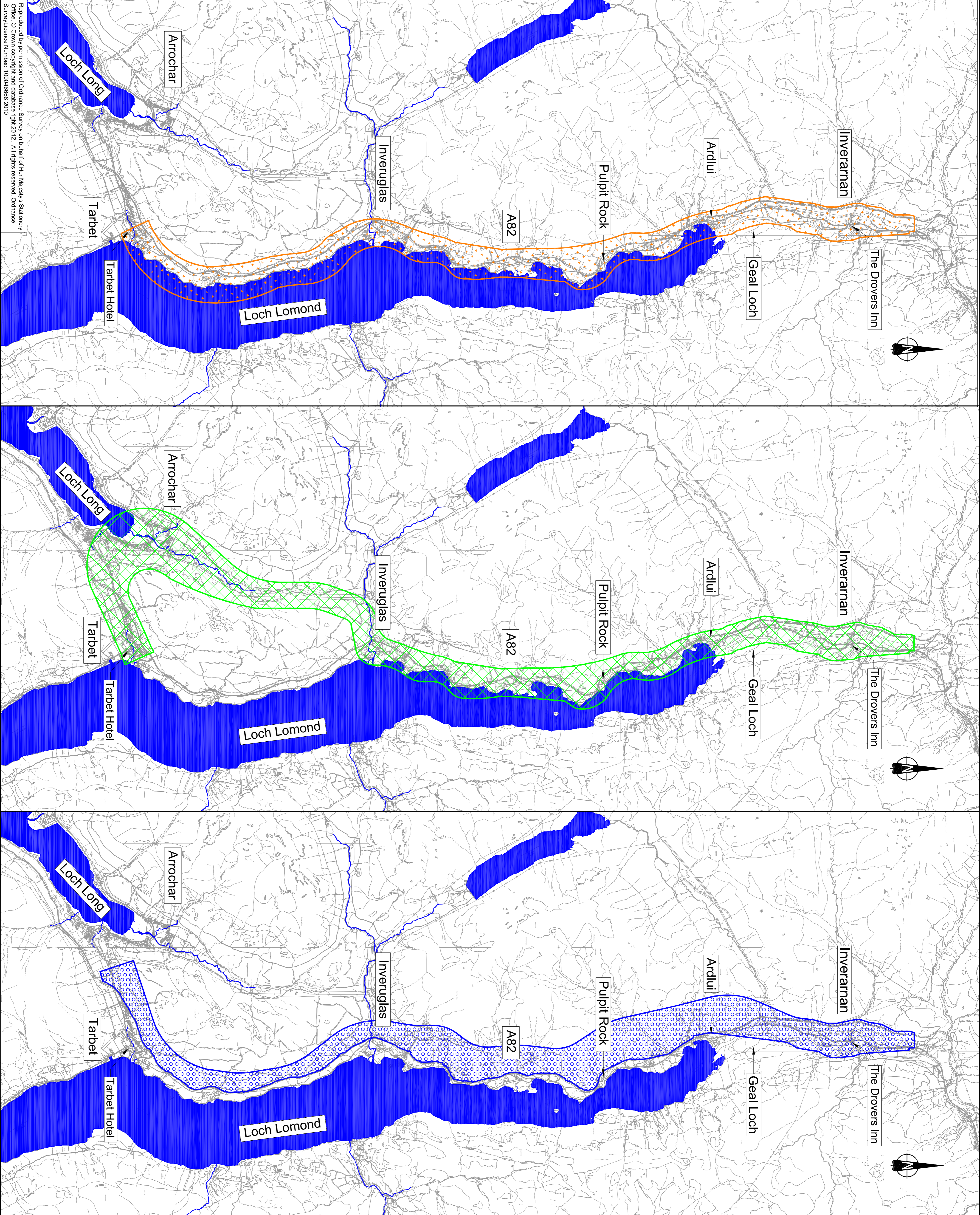
476416.0500.024: Option 3 Engineering Assessment Drainage and Water Environment Sheet 5 of 5

476416.0600.001: Drift Geology Map

476416.0600.002: Solid Geology Map

This page is blank.

This page is blank.



SIGNIFICANT RESIDUAL RISKS

The following list provides a cross reference between the drawing and the Designer's Matrix and SMI Risk Assessment, and identifies those areas of Significant Residual Risk.

Description of Risk	Rat. No.
CLIENT OPERATIONS	1
ADJACENT ACTIVITIES	2
RESTRICTED SITE	3
TRAFFIC	4
INTERFACE WITH PUBLIC	5
NEAR TO HIGHWAYS	6
NEAR TO WATERWAYS	7
GROUND INSTABILITY	8
CONTAMINATION/SOIL GAS	10
GROUND WATER	11
INUNDATION	12
SERVICES	13
OVERHEAD CABLES	14
INSECT ATTACK (INCL. MIDGE & TICKS)	15

- Key:**
- Option 1 Orange Corridor
 - Option 2 Green Corridor
 - Option 3 Blue Corridor

Rev	By	Chkd	Appr'd	Date	Description
2.0	SMC	EN	EC	22/11/13	Designing border removed.
1.0	MJC	EN	EC	11/03/13	Order status removed.

Client:

CH2M HILL | FAIRFURST
 22000000
 The Scottish Government

CH2M Hill Fairhurst JV
 C/O City Park, 368 Alexandra Parade, Glasgow, G3 7AU
 Tel: +44 (0)141 552 2000 Fax: +44 (0)141 552 2025

Project:
 A82 TARBET TO INVERARNAN UPGRADE

Drawing:

CORRIDOR LOCATIONS

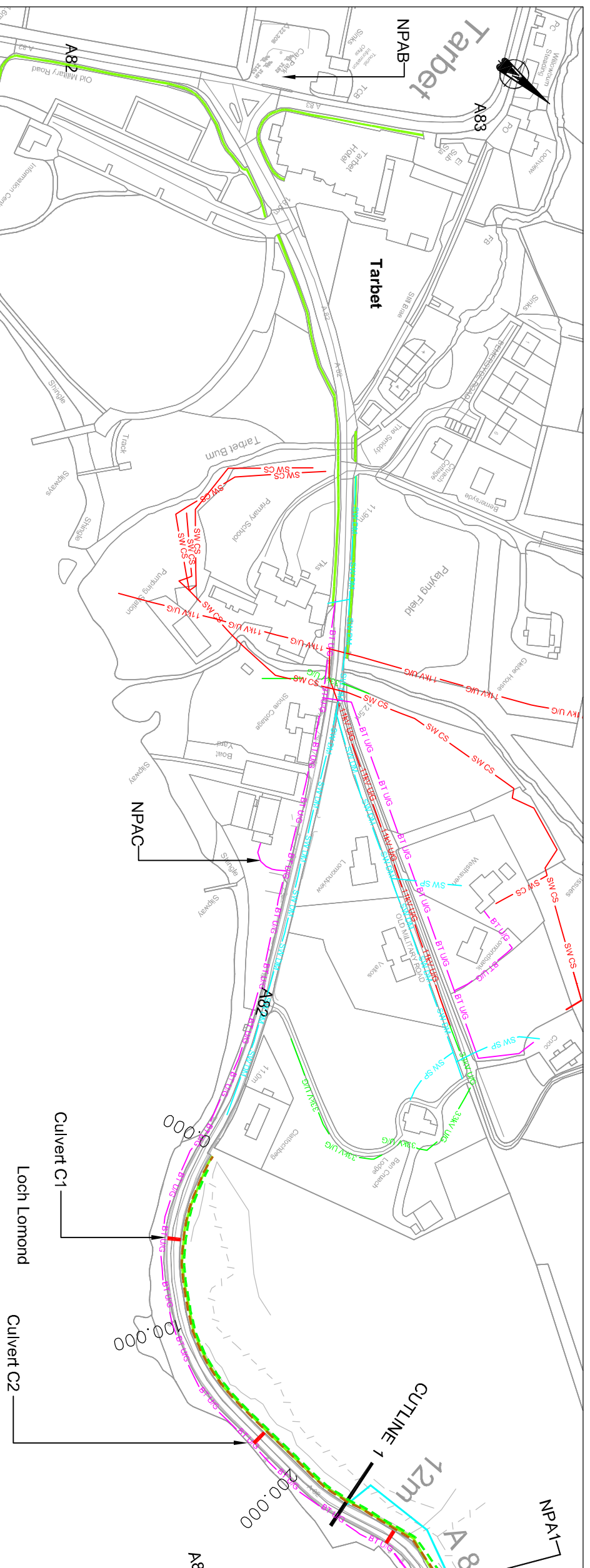
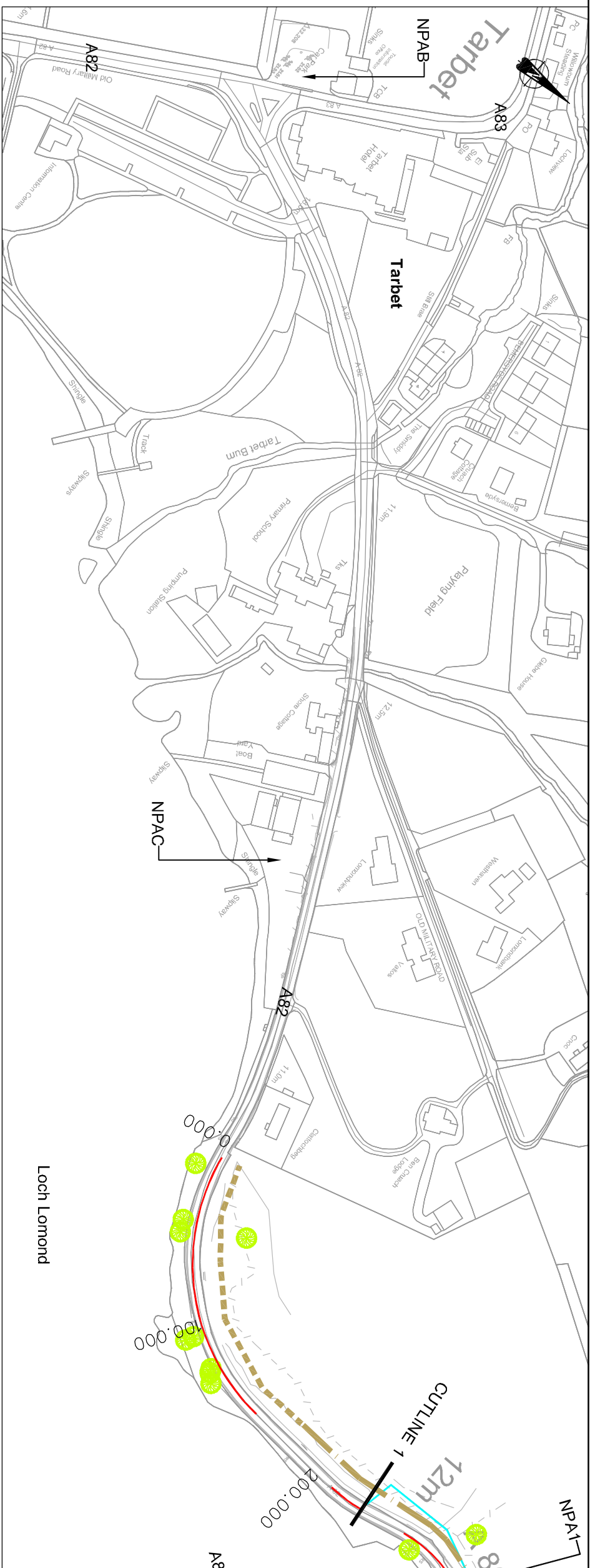
Drawn by: MCOLLIHAN Date: 20/11/13
 Checked by: ENICOLSON Date: 22/11/13
 Approved by: ERAMWCHD Date: 22/11/13

Drawing No: **476416-0000-016** Revision: **2.0**

CD0 Filename: Plot Scale:

Reproduced by permission of Ordnance Survey on behalf of Her Majesty's Stationery Office. © Crown copyright and database right 2012. All rights reserved. Ordnance Survey Licence Number: 100049689 2010

SIGNIFICANT RESIDUAL RISKS	
The following list provides a cross reference between this drawing and the Designer's Health and Safety Risk Assessment, and denotes those areas of Significant Residual Risk	
Description of Risk	Ref. No.
CLIENT OPERATIONS	1
ADJACENT ACTIVITIES	2
RESTRICTED SITE	3
TRAFFIC	4
INTERFACE WITH PUBLIC	5
NEAR TO HIGHWAYS	6
NEAR TO RAILWAYS	7
NEAR TO WATERWAYS	8
GROUND INSTABILITY	9
CONTAMINANT/NOISOL GAS	10
GROUND WATER	11
INUNDATION	12
SERVICES	13
OVERHEAD CABLES	14
INSECT ATTACK (INCL. NIDGEE & TICKS)	15



- KEY**
- Top Viewport**
- Horizontal Alignment Assessment**
- 1 Step below standard
 - 2 Step below standard
 - 3 Step below standard
 - 4 Step below standard
- Access Points**
- BCA Business / commercial access
 - FA Field access
 - IPA Informal parking area
 - LAR Loch access road
 - PA Parking area
 - RA Residential access
 - RSA Railway station access
 - TR Track road
 - UAR Unknown access road
- Features**
- Potential Rock cut, 0-5m high
 - Potential Rock cut, 5-10m high
 - Potential Rock cut, >10m high
 - Requested parking (suitable)
 - Requested parking (not suitable)
 - Specimen Tree
- Bottom Viewport**
- Public Utilities**
- 11kV Overhead line
 - 11kV Underground cable
 - 132/275kV Overhead line
 - 132/275kV Underground cable
 - 33kV Overhead line
 - 33kV Underground cable
 - Pilot cable
 - BT Overhead line
 - BT Underground cable
 - Scottish Water distribution main
 - Scottish Water combined sewer
 - Scottish Water supply pipe
- Drainage**
- Existing channel
 - Existing ditch
 - Existing filter drain
 - Hillside run off
 - Watercourses

Client: The Scottish Government

Project: **A82 TARBET TO INVERARNAN UPGRADE**

Revision	By	Checked	Approved	Date	Description
3.0	SM	EN	EC	11.12.13	Drawing frame and title block amended.
2.0	MC	EN	EC	11.12.13	Drawing frame and title block amended.
1.0	MC	EN	EC	20.11.13	Footways/footpaths added.

Reproduced by permission of Ordnance Survey on behalf of Her Majesty's Stationery Office. © Crown copyright and database right 2012. All rights reserved. Ordnance Survey Licence Number: 100046689 2010

Drawn by: **M COLAHAN** Date: 11.11.13
 Checked by: **ENICOLSON** Date: 11.12.13
 Authorised by: **E CRAWFORD** Date: 11.12.13

CH2M HILL **FAIRHURST**
 C/O: City Park 368 Alexandra Parade Glasgow G31 3AU
 Tel +44 (0)141 552 2000 Fax +44 (0)141 552 2525

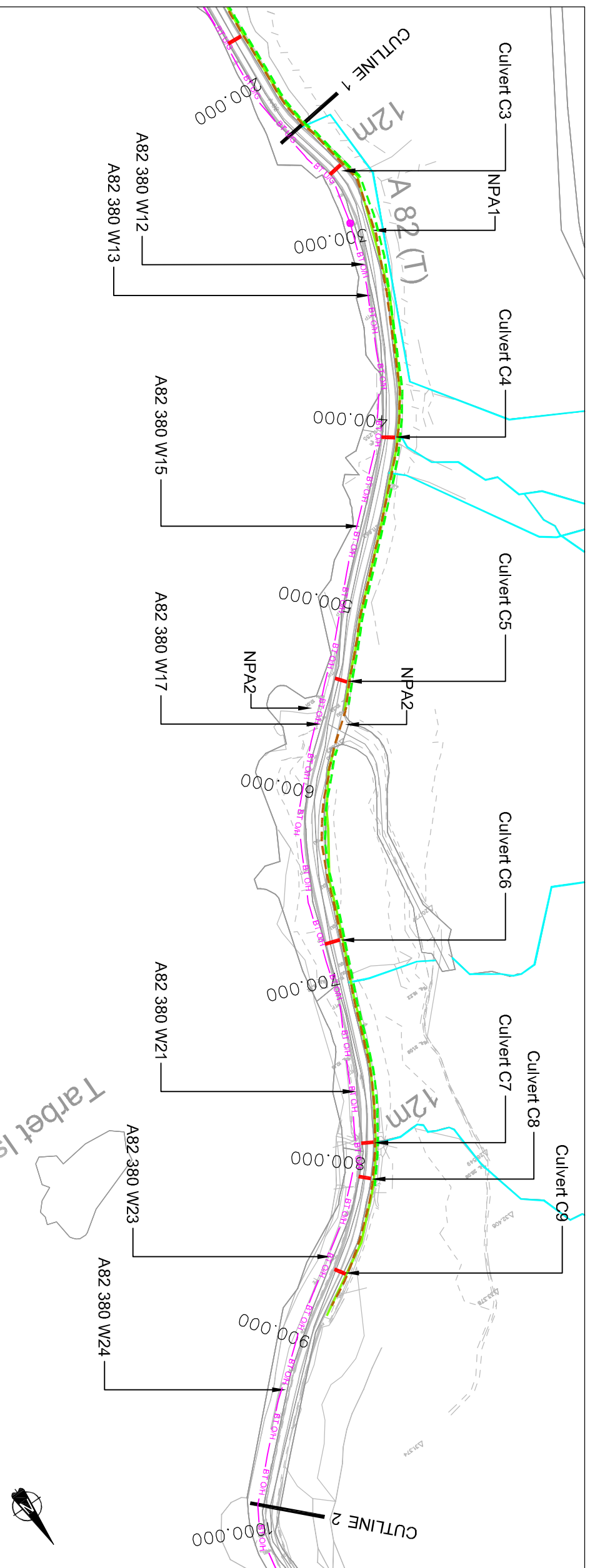
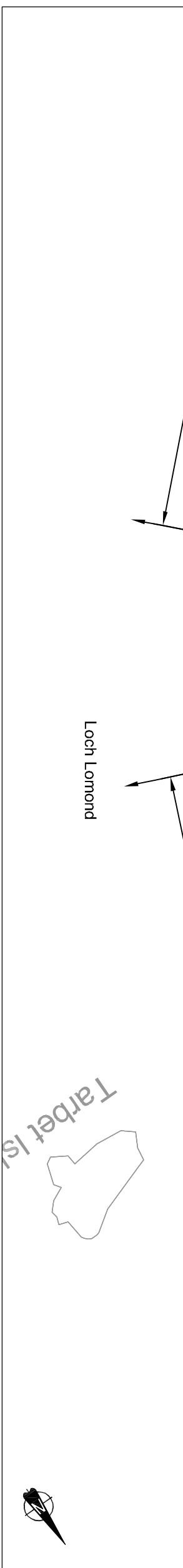
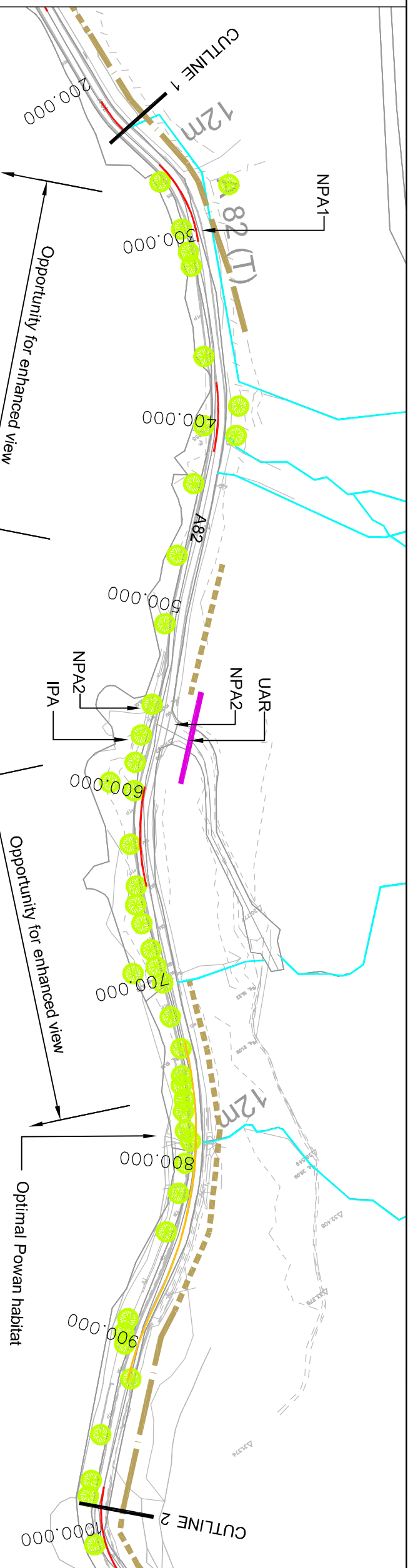
Drawing: **EXISTING LAYOUT AND FEATURES**
 SHEET 1 OF 22

Scale: 1:2500 Drawing No. **476416-0000-050** Revision **3.0**

SIGNIFICANT RESIDUAL RISKS

The following list provides a cross reference between this drawing and the Designer's Health and Safety Risk Assessment, and denotes those areas of Significant Residual Risk

Description of risk	Ref. No.
CLIENT OPERATIONS	1
ADJACENT ACTIVITIES	2
RESTRICTED SITE	3
TRAFFIC	4
INTERFACE WITH PUBLIC	5
NEAR TO HIGHWAYS	6
NEAR TO RAILWAYS	7
NEAR TO WATERWAYS	8
GROUND INSTABILITY	9
CONTAMINATION/SOIL GAS	10
GROUND WATER	11
INUNDATION	12
SERVICES	13
OVERHEAD CABLES	14
INSECT ATTACK (INCL. LINDSEY & TICKS)	15



- KEY**
- Top Viewpoint**
- Horizontal Alignment Assessment**
- 1 Step below standard
 - 2 Step below standard
 - 3 Step below standard
 - 4 Step below standard
- Access Points**
- BCA Business / commercial access
 - FA Field access
 - IPA Informal parking area
 - LAR Loch access road
 - PA Parking area
 - RA Residential access
 - RSA Railway station access
 - TR Track road
 - UAR Unknown access road
- Features**
- Potential Rock cut, 0-5m high
 - Potential Rock cut, 5-10m high
 - Potential Rock cut, >10m high
 - Requested parking (suitable)
 - Requested parking (not suitable)
 - Specimen Tree
- Bottom Viewpoint**
- Public Utilities**
- 11kV Overhead line
 - 11kV Underground cable
 - 132/275kV Overhead line
 - 33kV Overhead line
 - 33kV Underground cable
 - Pilot cable
 - BT Overhead line
 - BT Underground cable
 - SW/DM Scottish Water distribution main
 - SW/CS Scottish Water combined sewer
 - SW/SP Scottish Water supply pipe
- Drainage**
- Existing channel
 - Existing ditch
 - Existing filter drain
 - Hillside run off
 - Watercourses

Client: **Transport Scotland** The Scottish Government

Project: **A82 TARBET TO INVERARNAN UPGRADE**

Revision	By	Checked	Approved	Date	Description
3.0	SM	EN	EC	11.12.13	Drawing frame and title block amended.
2.0	MC	EN	EC	11.12.13	Drawing frame and title block amended.
1.0	MC	EN	EC	20.11.13	Footways/footpaths added.

Reproduced by permission of Ordnance Survey on behalf of Her Majesty's Stationery Office. © Crown copyright and database right 2012. All rights reserved. Ordnance Survey Licence Number: 100046689 2010

Drawn by: **M COLAHAN** Date: 11.11.13
 Checked by: **E NICOLSON** Date: 11.12.13
 Authorised by: **E CRAWFORD** Date: 11.12.13

CH2M HILL **FAIRHURST**
 CH2M Hill Fairhurst JV
 C/O: City Park 368 Alexandra Parade Glasgow G31 3AU
 Tel: +44 (0)141 552 2000 Fax: +44 (0)141 552 2525

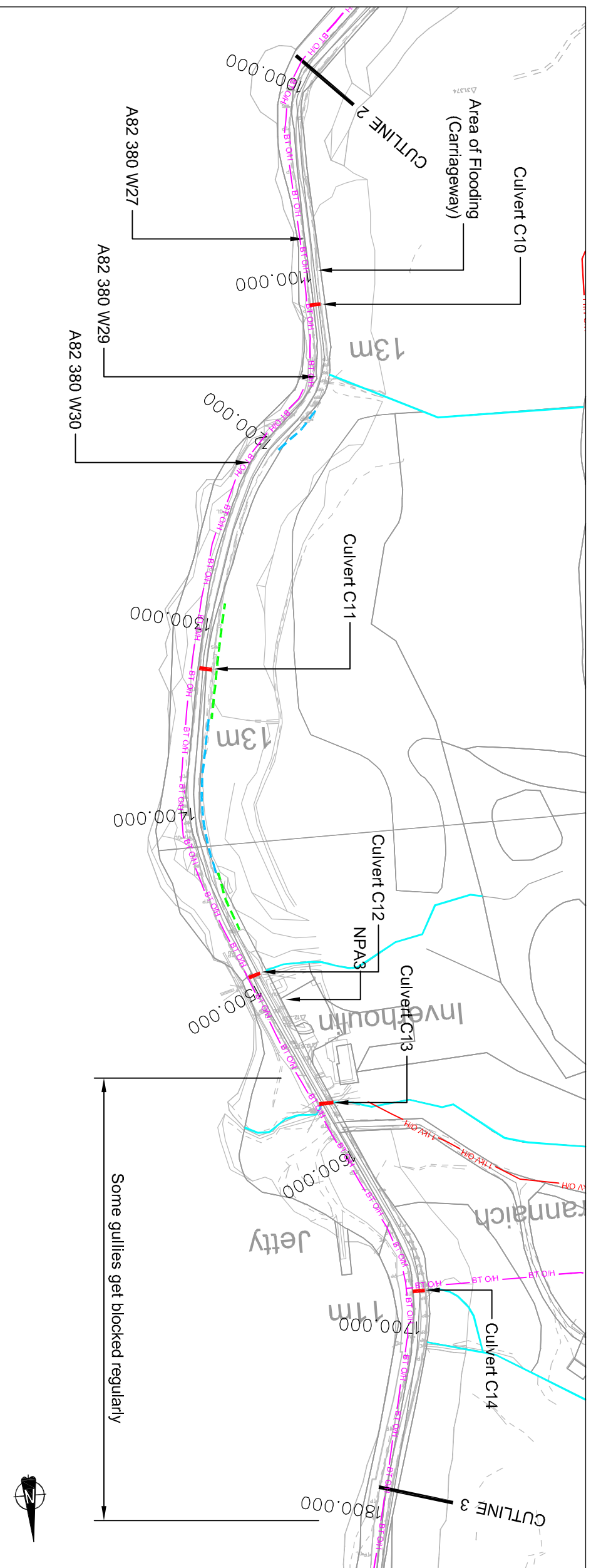
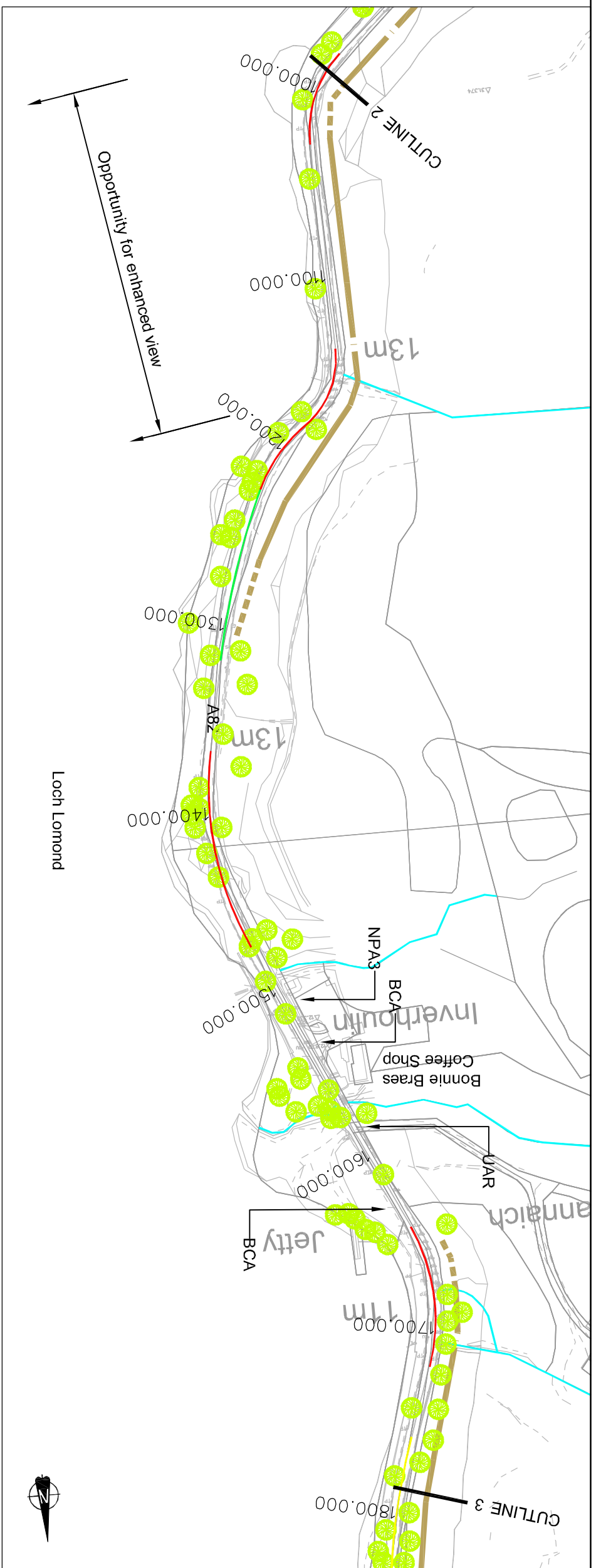
Scale: 1:2500 Drawing No. **476416-0000-051** Revision **3.0**

EXISTING LAYOUT AND FEATURES
 SHEET 2 OF 22

SIGNIFICANT RESIDUAL RISKS

The following list provides a cross reference between this drawing and the Designer's Health and Safety Risk Assessment, and defines those areas of Significant Residual Risk

Description of Risk	Ref. No.
CLIENT OPERATIONS	1
ADJACENT ACTIVITIES	2
RESTRICTED SITE	3
TRAFFIC	4
INTERFACE WITH PUBLIC	5
NEAR TO HIGHWAYS	6
NEAR TO RAILWAYS	7
NEAR TO WATERWAYS	8
GROUND INSTABILITY	9
CONTAMINATION/SOIL GAS	10
GROUND WATER	11
INUNDATION	12
SERVICES	13
OVERHEAD CABLES	14
INSECT ATTACK (INCL. MIDGE & TICKS)	15



- KEY**
- Top Viewpoint**
- Horizontal Alignment Assessment**
- 1 Step below standard
 - 2 Step below standard
 - 3 Step below standard
 - 4 Step below standard
- Access Points**
- BCA Business / commercial access
 - FA Field access
 - IPA Informal parking area
 - LAR Loch access road
 - PA Parking area
 - RA Residential access
 - RSA Railway station access
 - TR Track road
 - UAR Unknown access road

- Features**
- Potential Rock cut, 0-5m high
 - Potential Rock cut, 5-10m high
 - Potential Rock cut, >10m high
 - Requested parking (suitable)
 - Requested parking (not suitable)
 - Specimen Tree
- Bottom Viewpoint**
- Public Utilities**
- 11kV Overhead line
 - 11kV Underground cable
 - 132/275kV Overhead line
 - 33kV Overhead line
 - 33kV Underground cable
 - Pilot cable
 - BT Overhead line
 - BT Underground cable
 - Scottish Water distribution main
 - Scottish Water combined sewer
 - Scottish Water supply pipe

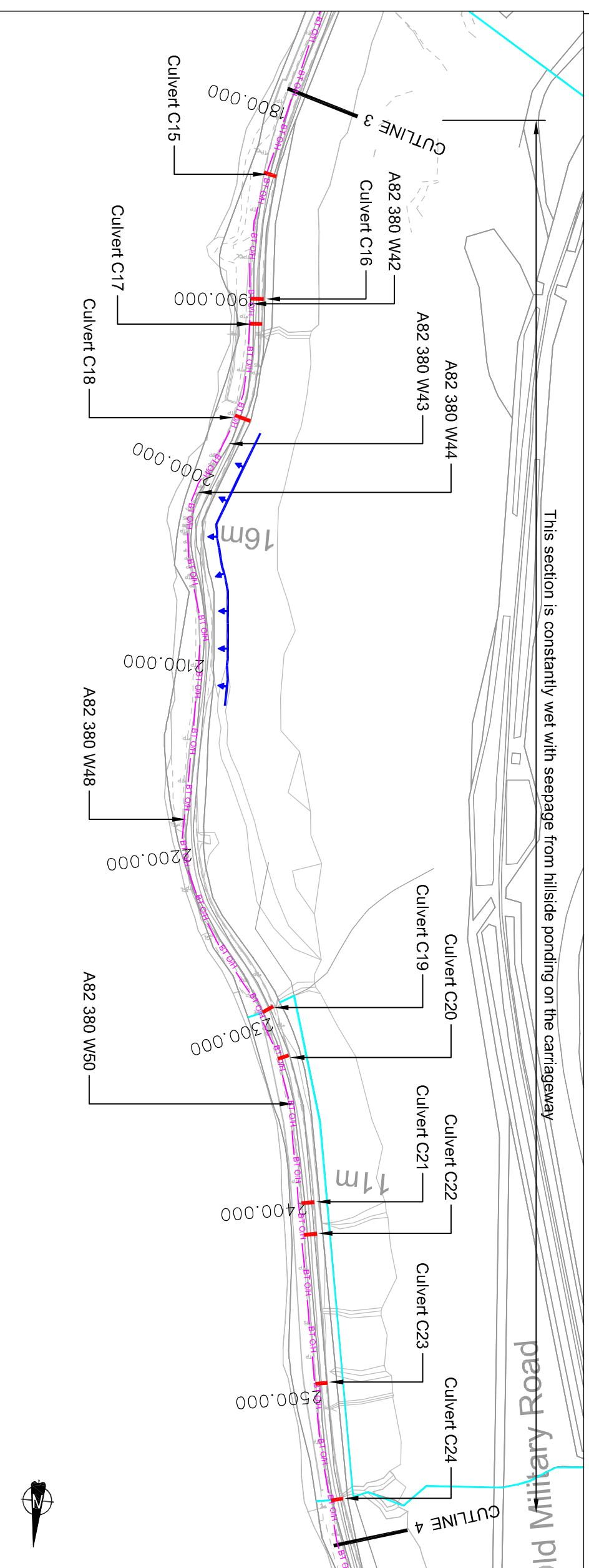
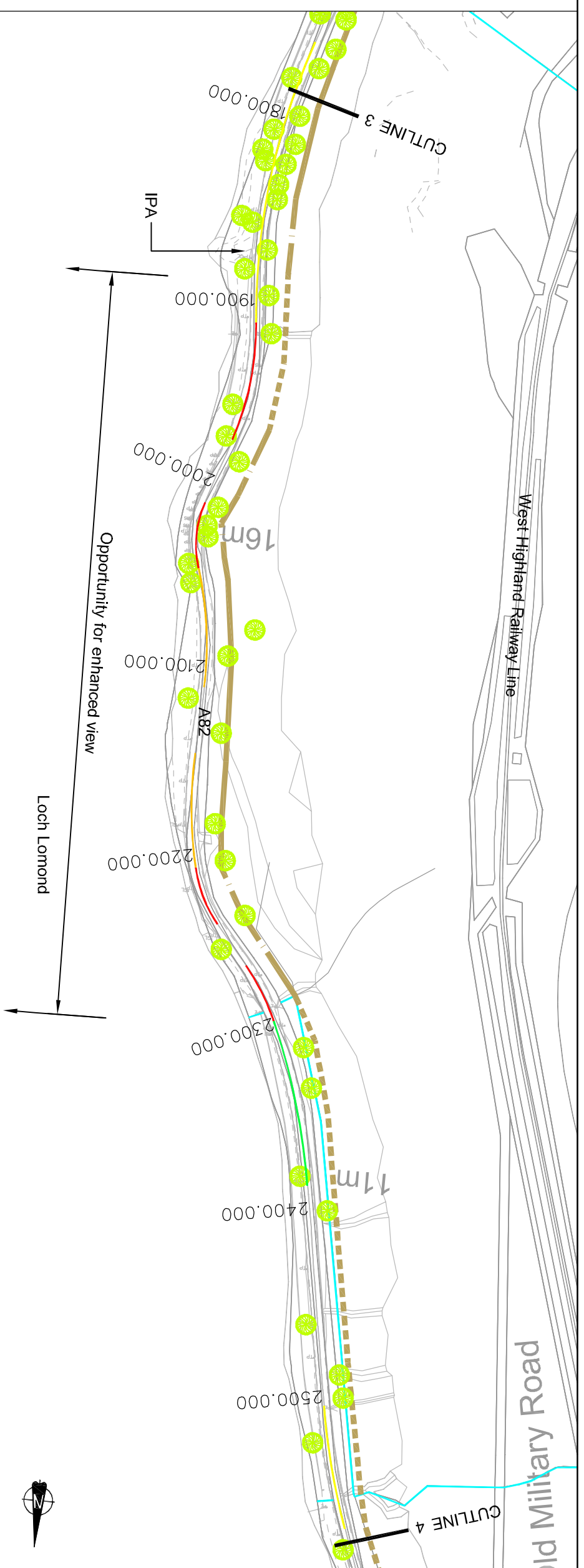
- Drainage**
- Existing channel
 - Existing ditch
 - Existing filter drain
 - Hillside run off
 - Watercourses

<p>Client</p> <p>Transport Scotland The Scottish Government</p>	<p>Project</p> <p>A82 TARBET TO INVERARNAN UPGRADE</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Revision</th> <th>By</th> <th>Checked</th> <th>Approved</th> <th>Date</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>3.0</td> <td>SM</td> <td>EN</td> <td>EC</td> <td>11.12.13</td> <td>Drawing frame and title block amended.</td> </tr> <tr> <td>2.0</td> <td>MC</td> <td>EN</td> <td>EC</td> <td>11.12.13</td> <td>Drawing frame and title block amended.</td> </tr> <tr> <td>1.0</td> <td>MC</td> <td>EN</td> <td>EC</td> <td>20.11.13</td> <td>Footways/footpaths added.</td> </tr> </tbody> </table>	Revision	By	Checked	Approved	Date	Description	3.0	SM	EN	EC	11.12.13	Drawing frame and title block amended.	2.0	MC	EN	EC	11.12.13	Drawing frame and title block amended.	1.0	MC	EN	EC	20.11.13	Footways/footpaths added.
Revision	By	Checked	Approved	Date	Description																					
3.0	SM	EN	EC	11.12.13	Drawing frame and title block amended.																					
2.0	MC	EN	EC	11.12.13	Drawing frame and title block amended.																					
1.0	MC	EN	EC	20.11.13	Footways/footpaths added.																					
<p>Reproduced by permission of Ordnance Survey on behalf of Her Majesty's Stationery Office. © Crown copyright and database right 2012. All rights reserved. Ordnance Survey Licence Number: 100046689 2010</p>																										
<p>CH2M HILL FAIRHURST JV C/O: City Park 368 Alexandra Parade Glasgow G31 3AU Tel: +44 (0)141 552 2000 Fax: +44 (0)141 552 2525</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Drawn by:</th> <th>Checked by:</th> <th>Date:</th> </tr> </thead> <tbody> <tr> <td>M COLAHAN</td> <td>E NICOLSON</td> <td>11.11.13</td> </tr> <tr> <td></td> <td>E NICOLSON</td> <td>11.12.13</td> </tr> <tr> <td></td> <td>E GRAMFORD</td> <td>11.12.13</td> </tr> </tbody> </table>	Drawn by:	Checked by:	Date:	M COLAHAN	E NICOLSON	11.11.13		E NICOLSON	11.12.13		E GRAMFORD	11.12.13	<p>Drawing</p> <p>EXISTING LAYOUT AND FEATURES</p> <p>SHEET 3 OF 22</p>												
Drawn by:	Checked by:	Date:																								
M COLAHAN	E NICOLSON	11.11.13																								
	E NICOLSON	11.12.13																								
	E GRAMFORD	11.12.13																								
<p>Scale: 1:2500</p>	<p>Drawing No. 476416-0000-052</p>	<p>Revision 3.0</p>																								

SIGNIFICANT RESIDUAL RISKS

The following list provides a cross reference between this drawing and the Designer's Health and Safety Risk Assessment, and identifies those areas of Significant Residual Risk

Description of Risk	Ref. No.
CLIENT OPERATIONS	1
ADJACENT ACTIVITIES	2
RESTRICTED SITE	3
TRAFFIC	4
INTERFACE WITH PUBLIC	5
NEAR TO HIGHWAYS	6
NEAR TO RAILWAYS	7
NEAR TO WATERWAYS	8
GROUND INSTABILITY	9
CONTAMINANT/NOISOL GAS	10
GROUND WATER	11
INUNDATION	12
SERVICES	13
OVERHEAD CABLES	14
INSECT ATTACK (INCL. MIDGE & TICKS)	15



This section is constantly wet with seepage from hillside ponding on the carriageway

Opportunity for enhanced view

Loch Lomond



KEY

Top Viewport

- Horizontal Alignment Assessment**
- 1 Step below standard
 - 2 Step below standard
 - 3 Step below standard
 - 4 Step below standard

Access Points

- BCA Business / commercial access
- FA Field access
- IPA Informal parking area
- LAR Loch access road
- PA Parking area
- RA Residential access
- RSA Railway station access
- TR Track road
- UAR Unknown access road

Features

- Potential Rock cut, 0-5m high
- Potential Rock cut, 5-10m high
- Potential Rock cut, >10m high
- Requested parking (suitable)
- Requested parking (not suitable)
- Specimen Tree

Bottom Viewport

- Public Utilities**
- 11kV Overhead line
 - 11kV Underground cable
 - 132/275kV Overhead line
 - 33kV Overhead line
 - 33kV Underground cable
 - Pilot cable
 - BT Overhead line
 - BT Underground cable
 - SW/DM Scottish Water distribution main
 - SW/CS Scottish Water combined sewer
 - SW/SP Scottish Water supply pipe

Drainage

- Existing channel
- Existing ditch
- Existing filter drain
- Hillside run off
- Watercourses

Client



Project

A82 TARBET TO INVERARNAN UPGRADE

Revision	By	Checked	Approved	Date	Description
3.0	SM	EN	EC	11.12.13	Drawing frame and title block amended.
2.0	MC	EN	EC	11.12.13	Drawing frame and title block amended.
1.0	MC	EN	EC	20.11.13	Footways/footpaths added.

Reproduced by permission of Ordnance Survey on behalf of Her Majesty's Stationery Office. © Crown copyright and database right 2012. All rights reserved. Ordnance Survey Licence Number: 100046689 2010

Drawn by:	M COLAHAN	Date:	11.11.13
Checked by:	E NICOLSON	Date:	11.12.13
Authorised by:	E GRAMFORD	Date:	11.12.13
CAD Filename:			



CH2M Hill Fairhurst JV

C/O: City Park 368 Alexandra Parade Glasgow G31 3AU
Tel +44 (0)141 552 2000 Fax +44 (0)141 552 2525

Drawing

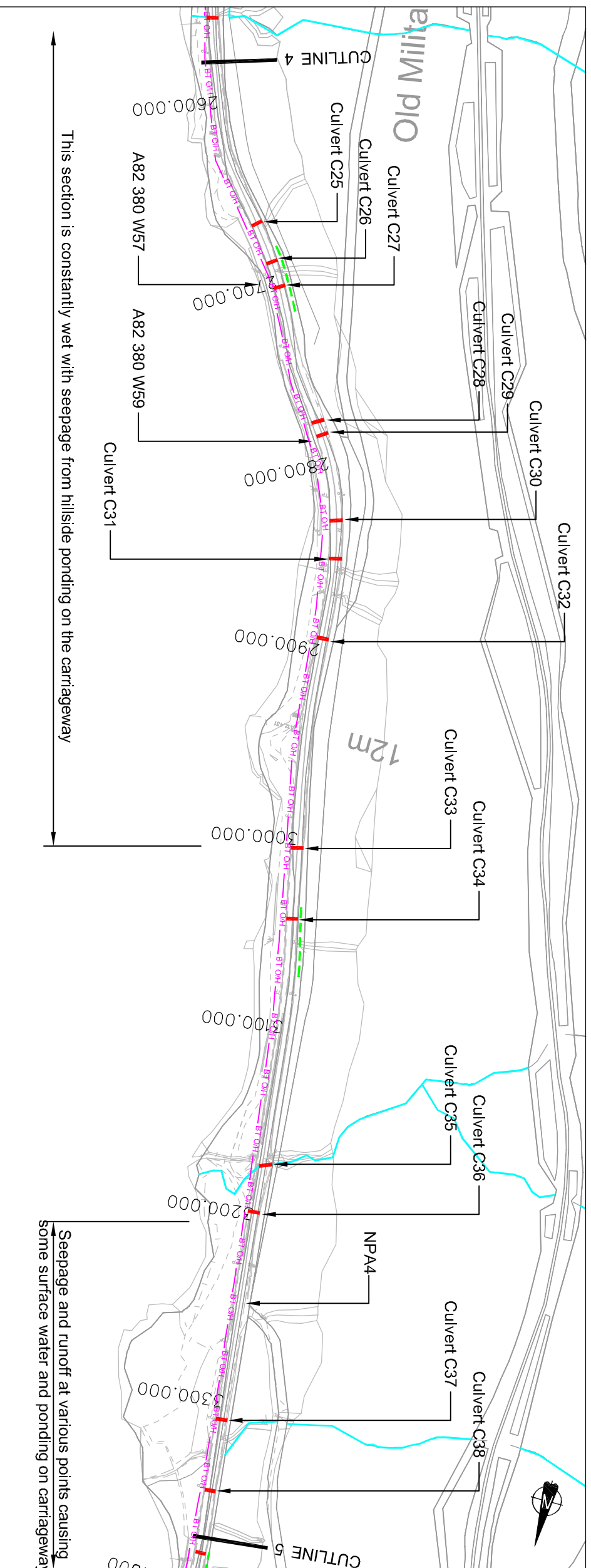
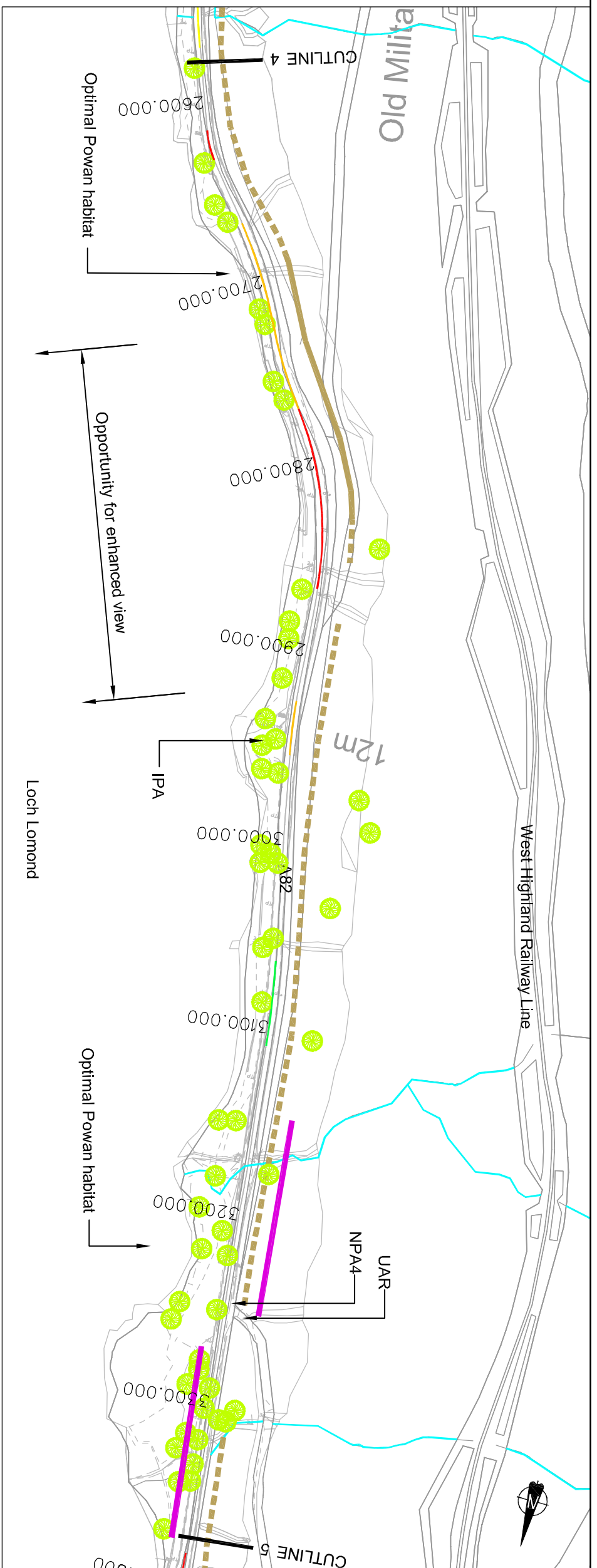
EXISTING LAYOUT AND FEATURES
SHEET 4 OF 22

Scale:	Drawing No.	Revision
1:2500	476416-0000-053	3.0

SIGNIFICANT RESIDUAL RISKS

The following list provides a cross reference between this drawing and the Designer's Health and Safety Risk Assessment, and defines those areas of Significant Residual Risk

Description of Risk	Ref. No.
CLIENT OPERATIONS	1
ADJACENT ACTIVITIES	2
RESTRICTED SITE	3
TRAFFIC	4
INTERFACE WITH PUBLIC	5
NEAR TO HIGHWAYS	6
NEAR TO RAILWAYS	7
NEAR TO WATERWAYS	8
GROUND INSTABILITY	9
CONTAMINATION/SOIL GAS	10
GROUND WATER	11
NUDATION	12
SERVICES	13
OVERHEAD CABLES	14
INSECT ATTACK (INCL. LINDSEY & TICKS)	15



This section is constantly wet with seepage from hillside ponding on the carriageway

Seepage and runoff at various points causing some surface water and ponding on carriageway

- KEY**
- Top Viewport**
- Horizontal Alignment Assessment**
- 1 Step below standard
 - 2 Step below standard
 - 3 Step below standard
 - 4 Step below standard
- Access Points**
- BCA Business / commercial access
 - FA Field access
 - IPA Informal parking area
 - LAR Loch access road
 - PA Parking area
 - RA Residential access
 - RSA Railway station access
 - TR Track road
 - UAR Unknown access road
- Features**
- Potential Rock cut, 0-5m high
 - Potential Rock cut, 5-10m high
 - Potential Rock cut, >10m high
 - Requested parking (suitable)
 - Requested parking (not suitable)
 - Specimen Tree
- Bottom Viewport**
- Public Utilities**
- 11kV Overhead line
 - 11kV Underground cable
 - 132/275kV Overhead line
 - 33kV Overhead line
 - 33kV Underground cable
 - Pilot cable
 - BT Overhead line
 - BT Underground cable
 - Scottish Water distribution main
 - Scottish Water combined sewer
 - Scottish Water supply pipe
- Drainage**
- Existing channel
 - Existing ditch
 - Existing filter drain
 - Hillside run off
 - Watercourses

Client: The Scottish Government

Project: **A82 TARBET TO INVERARNAN UPGRADE**

Revision	By	Checked	Approved	Date	Description
3.0	SM	EN	EC	11.12.13	Drawing frame and title block amended.
2.0	MC	EN	EC	11.12.13	Drawing frame and title block amended.
1.0	MC	EN	EC	20.11.13	Footways/footpaths added.

Reproduced by permission of Ordnance Survey on behalf of Her Majesty's Stationery Office. © Crown copyright and database right 2012. All rights reserved. Ordnance Survey Licence Number: 100046689 2010

Drawn by: **M COLAHAN** Date: 11.11.13
 Checked by: **ENICOLSON** Date: 11.12.13
 Authorised by: **E CRAWFORD** Date: 11.12.13

CH2M HILL **FAIRHURST**
 C/O: City Park 368 Alexandra Parade Glasgow G31 3AU
 Tel +44 (0)141 552 2000 Fax +44 (0)141 552 2525

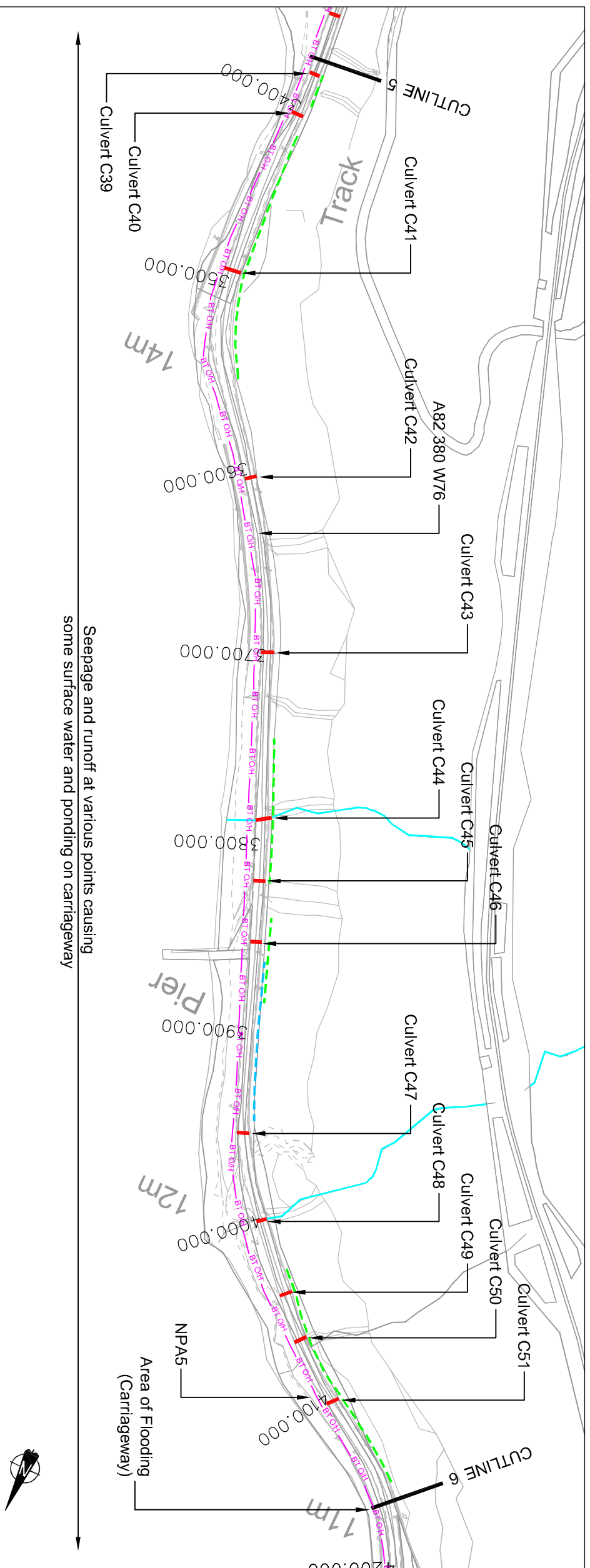
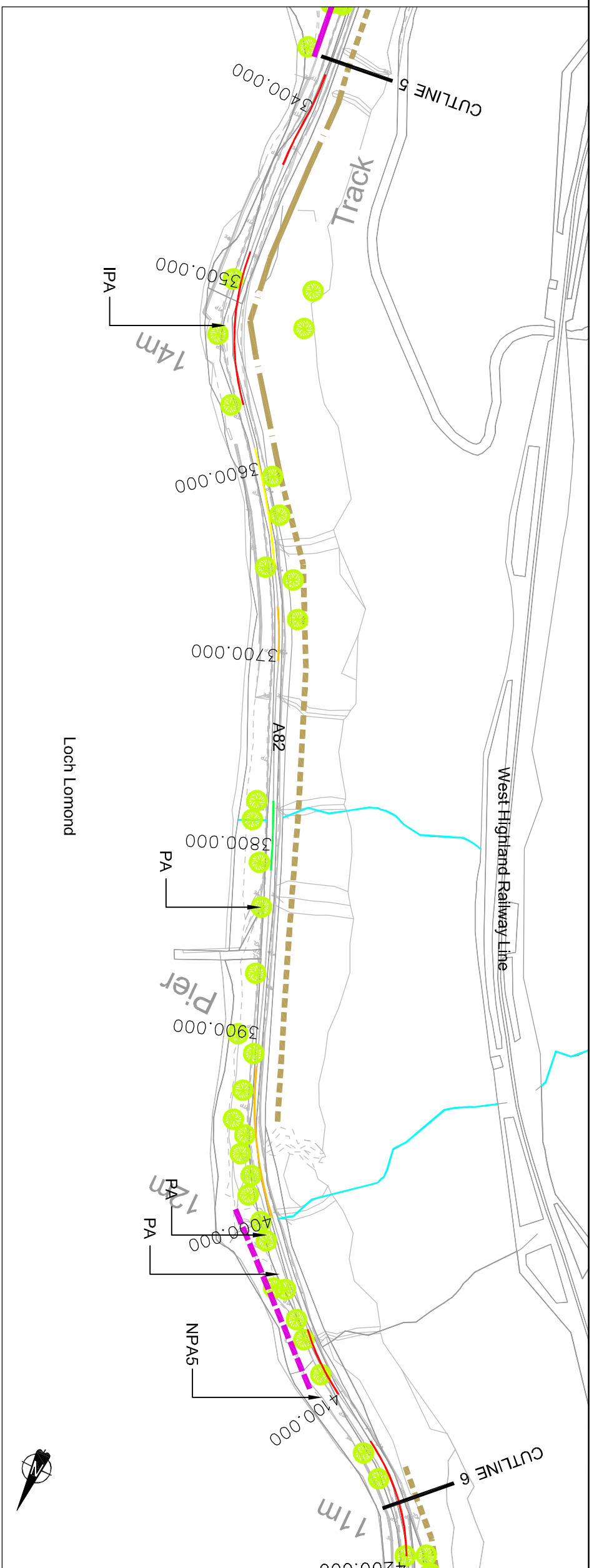
Drawing: **EXISTING LAYOUT AND FEATURES**
 SHEET 5 OF 22

Scale: 1:2500 Drawing No. **476416-0000-054** Revision **3.0**

SIGNIFICANT RESIDUAL RISKS

The following list provides a cross reference between this drawing and the Designer's Health and Safety Risk Assessment, and denotes those areas of Significant Residual Risk

Description of Risk	Ref. No.
CLIENT OPERATIONS	1
ADJACENT ACTIVITIES	2
RESTRICTED SITE	3
TRAFFIC	4
INTERFACE WITH PUBLIC	5
NEAR TO HIGHWAYS	6
NEAR TO RAILWAYS	7
NEAR TO WATERWAYS	8
GROUND INSTABILITY	9
CONTAMINANT/NOISIL GAS	10
GROUND WATER	11
INUNDATION	12
SERVICES	13
OVERHEAD CABLES	14
INSECT ATTACK (INCL. MIDGE & TICKS)	15



- KEY**
- Top Viewport**
- Horizontal Alignment Assessment**
- 1 Step below standard
 - 2 Step below standard
 - 3 Step below standard
 - 4 Step below standard
- Access Points**
- BCA Business / commercial access
 - FA Field access
 - IPA Informal parking area
 - LAR Loch access road
 - PA Parking area
 - RA Residential access
 - RSA Railway station access
 - TR Track road
 - UAR Unknown access road
- Features**
- Potential Rock cut, 0-5m high
 - Potential Rock cut, 5-10m high
 - Potential Rock cut, >10m high
 - Requested parking (suitable)
 - Requested parking (not suitable)
 - Specimen Tree
- Bottom Viewport**
- Public Utilities**
- 11kV Overhead line
 - 11kV Underground cable
 - 132/275kV Overhead line
 - 33kV Overhead line
 - 33kV Underground cable
 - PILLOT CABLE
 - BT Overhead line
 - BT Underground cable
 - Scottish Water distribution main
 - Scottish Water combined sewer
 - Scottish Water supply pipe
- Drainage**
- Existing channel
 - Existing ditch
 - Existing filter drain
 - Hillside run off
 - Watercourses

EXISTING LAYOUT AND FEATURES

SHEET 6 OF 22

Client

Project

A82 TARBET TO INVERARNAN UPGRADE

Revision	By	Checked	Approved	Date	Description
3.0	SM	EN	EC	11.12.13	Drawing frame and title block amended.
2.0	MC	EN	EC	11.12.13	Drawing frame and title block amended.
1.0	MC	EN	EC	20.11.13	Footways/footpaths added.

Reproduced by permission of Ordnance Survey on behalf of Her Majesty's Stationery Office. © Crown copyright and database right 2012. All rights reserved. Ordnance Survey Licence Number: 100046689 2010

Drawn by: **M COLAHAN** Date: 11.11.13

Checked by: **E NICOLSON** Date: 11.12.13

Authorised by: **E CRAWFORD** Date: 11.12.13

CAD Filename:

CH2M HILL FAIRHURST JV
 C/O: City Park 368 Alexandra Parade Glasgow G31 3AU
 Tel +44 (0)141 552 2000 Fax +44 (0)141 552 2525

Drawing

Scale: 1:2500

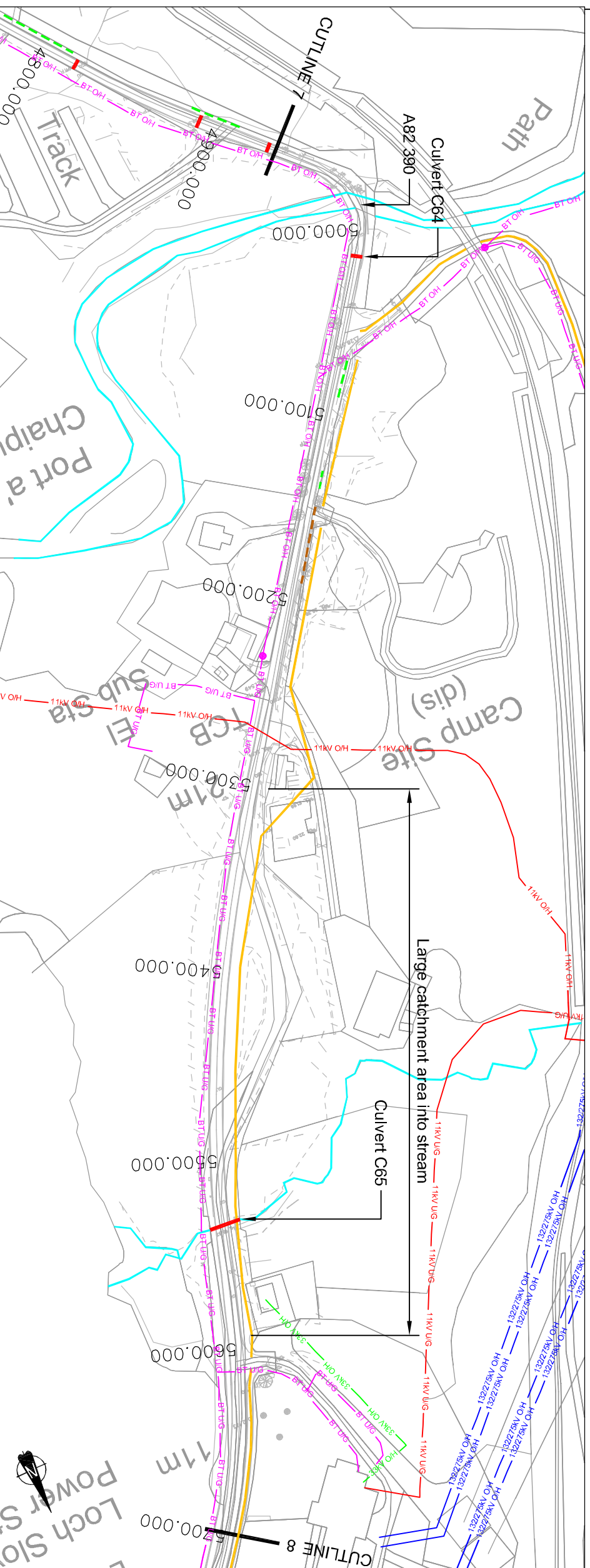
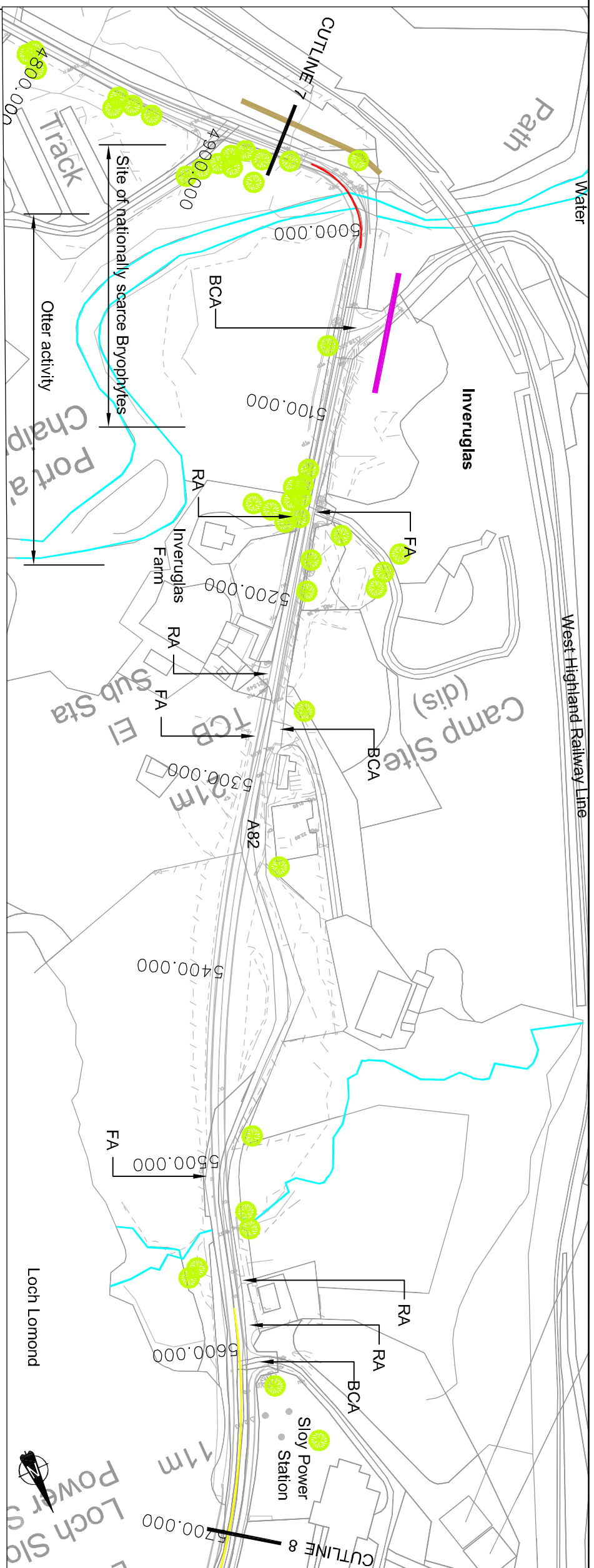
Drawing No. **476416-0000-055**

Revision **3.0**

SIGNIFICANT RESIDUAL RISKS

The following list provides a cross reference between this drawing and the Designer's Health and Safety Risk Assessment, and identifies those areas of Significant Residual Risk

Description of Risk	Ref. No.
CLIENT OPERATIONS	1
ADJACENT ACTIVITIES	2
RESTRICTED SITE	3
TRAFFIC	4
INTERFERENCE WITH PUBLIC	5
NEAR TO HIGHWAYS	6
NEAR TO RAILWAYS	7
NEAR TO WATERWAYS	8
GROUND INSTABILITY	9
CONTAMINATION/SOIL GAS	10
GROUND WATER	11
INUNDATION	12
SERVICES	13
OVERHEAD CABLES	14
INSECT ATTACK (INCL. MIDGE & TICKS)	15



- KEY**
- Top Viewport**
- Horizontal Alignment Assessment**
- 1 Step below standard
 - 2 Step below standard
 - 3 Step below standard
 - 4 Step below standard
- Access Points**
- BCA Business / commercial access
 - FA Field access
 - IPA Informal parking area
 - LAR Loch access road
 - PA Parking area
 - RA Residential access
 - RSA Railway station access
 - TR Track road
 - UAR Unknown access road
- Features**
- Potential Rock cut, 0-5m high
 - Potential Rock cut, 5-10m high
 - Potential Rock cut, >10m high
 - Requested parking (suitable)
 - Requested parking (not suitable)
 - Specimen Tree
- Bottom Viewport**
- Public Utilities**
- 11kV Overhead line
 - 11kV Underground cable
 - 132/275kV Overhead line
 - 33kV Overhead line
 - 33kV Underground cable
 - Pilot cable
 - BT Overhead line
 - BT Underground cable
 - Scottish Water distribution main
 - Scottish Water combined sewer
 - Scottish Water supply pipe
- Drainage**
- Existing channel
 - Existing ditch
 - Existing filter drain
 - Hillside run off
 - Watercourses

Client: The Scottish Government

Project: **A82 TARBET TO INVERARNAN UPGRADE**

Revision	By	Checked	Approved	Date	Description
3.0	SM	EN	EC	11.12.13	Drawing frame and title block amended.
2.0	MC	EN	EC	11.12.13	Drawing frame and title block amended.
1.0	MC	EN	EC	20.11.13	Footways/footpaths added.

Reproduced by permission of Ordnance Survey on behalf of Her Majesty's Stationery Office. © Crown copyright and database right 2012. All rights reserved. Ordnance Survey Licence Number: 100046689 2010

Drawn by: **M COLAHAN** Date: 11.11.13
 Checked by: **E NICOLSON** Date: 11.12.13
 Authorised by: **E CRAWFORD** Date: 11.12.13

CH2M HILL **FARHURST**
 C/O: City Park 368 Alexandra Parade Glasgow G31 3AU
 Tel +44 (0)141 552 2000 Fax +44 (0)141 552 2525

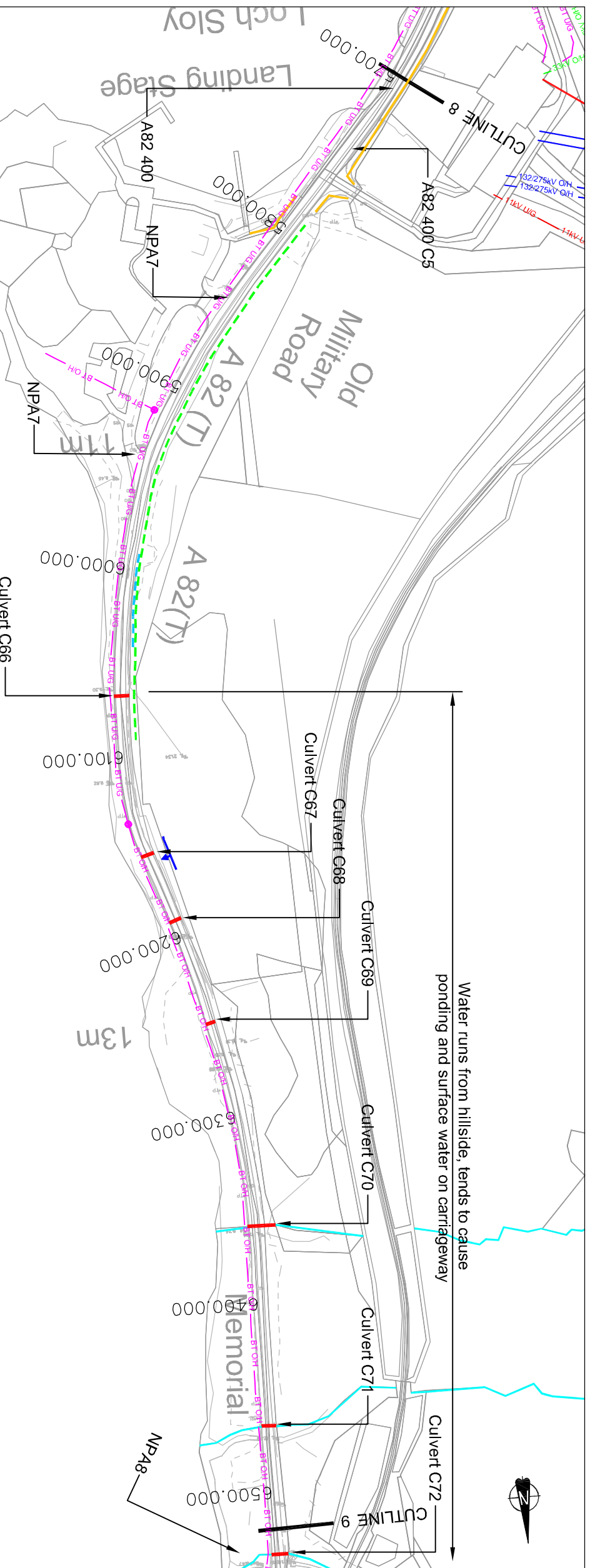
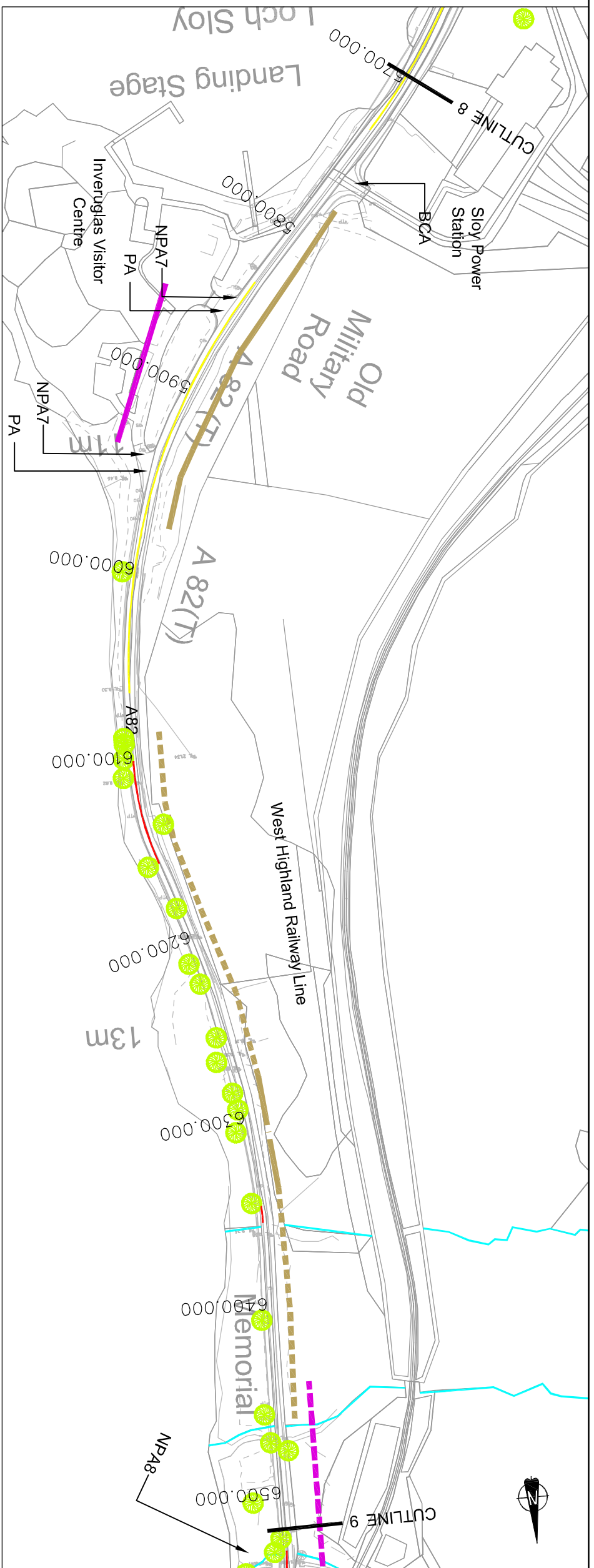
Scale: 1:2500 Drawing No. **476416-0000-057** Revision **3.0**

Drawing: **EXISTING LAYOUT AND FEATURES**
 SHEET 8 OF 22

SIGNIFICANT RESIDUAL RISKS

The following list provides a cross reference between this drawing and the Designer's Health and Safety Risk Assessment, and identifies those areas of Significant Residual Risk

Description of Risk	Ref. No.
CLIENT OPERATIONS	1
ADJACENT ACTIVITIES	2
RESTRICTED SITE	3
TRAFFIC	4
INTERFACE WITH PUBLIC	5
NEAR TO HIGHWAYS	6
NEAR TO RAILWAYS	7
NEAR TO WATERWAYS	8
GROUND INSTABILITY	9
CONTAMINATION/SOIL GAS	10
GROUND WATER	11
INUNDATION	12
SERVICES	13
OVERHEAD CABLES	14
INSECT ATTACK (INCL. NIDGEE & TICKS)	15



- KEY**
- Top Viewport**
- Horizontal Alignment Assessment**
- 1 Step below standard
 - 2 Step below standard
 - 3 Step below standard
 - 4 Step below standard
- Access Points**
- BCA Business / commercial access
 - FA Field access
 - IPA Informal parking area
 - LAR Loch access road
 - PA Parking area
 - RA Residential access
 - RSA Railway station access
 - TR Track road
 - UAR Unknown access road
- Features**
- Potential Rock cut, 0-5m high
 - Potential Rock cut, 5-10m high
 - Potential Rock cut, >10m high
 - Requested parking (suitable)
 - Requested parking (not suitable)
 - Specimen Tree
- Bottom Viewport**
- Public Utilities**
- 11kV Overhead line
 - 11kV Underground cable
 - 132/275kV Overhead line
 - 33kV Overhead line
 - 33kV Underground cable
 - PILLOT CABLE
 - BT OH
 - BT OH
 - BT Underground cable
 - BT Underground cable
 - Scottish Water distribution main
 - Scottish Water combined sewer
 - Scottish Water supply pipe
- Drainage**
- Existing channel
 - Existing ditch
 - Existing filter drain
 - Hillside run off
 - Watercourses

Client

Project

A82 TARBET TO INVERARNAN UPGRADE

Revision	By	Checked	Approved	Date	Description
3.0	SM	EN	EC	11.12.13	Drawing frame and title block amended.
2.0	MC	EN	EC	11.12.13	Drawing frame and title block amended.
1.0	MC	EN	EC	20.11.13	Footways/footpaths added.

Reproduced by permission of Ordnance Survey on behalf of Her Majesty's Stationery Office. © Crown copyright and database right 2012. All rights reserved. Ordnance Survey Licence Number: 100046689 2010

Drawn by: M COLAHAN Date: 11.11.13

Checked by: E NICOLSON Date: 11.12.13

Authorised by: E CRAWFORD Date: 11.12.13

CAD Filename:

CH2M HILL

FAIRHURST JV

CH2M Hill Fairhurst JV
C/O: City Park 368 Alexandra Parade Glasgow G31 3AU
Tel +44 (0)141 552 2000 Fax +44 (0)141 552 2525

Drawing

EXISTING LAYOUT AND FEATURES

SHEET 9 OF 22

Scale: 1:2500

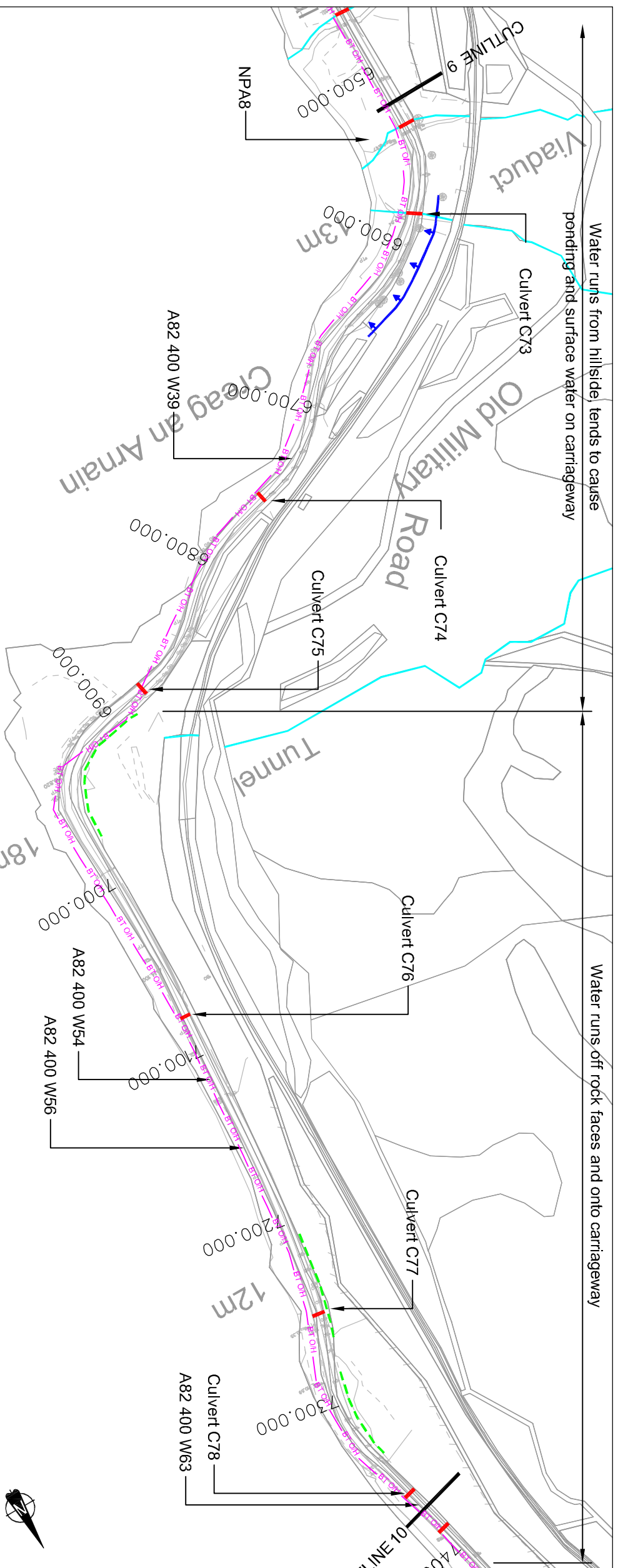
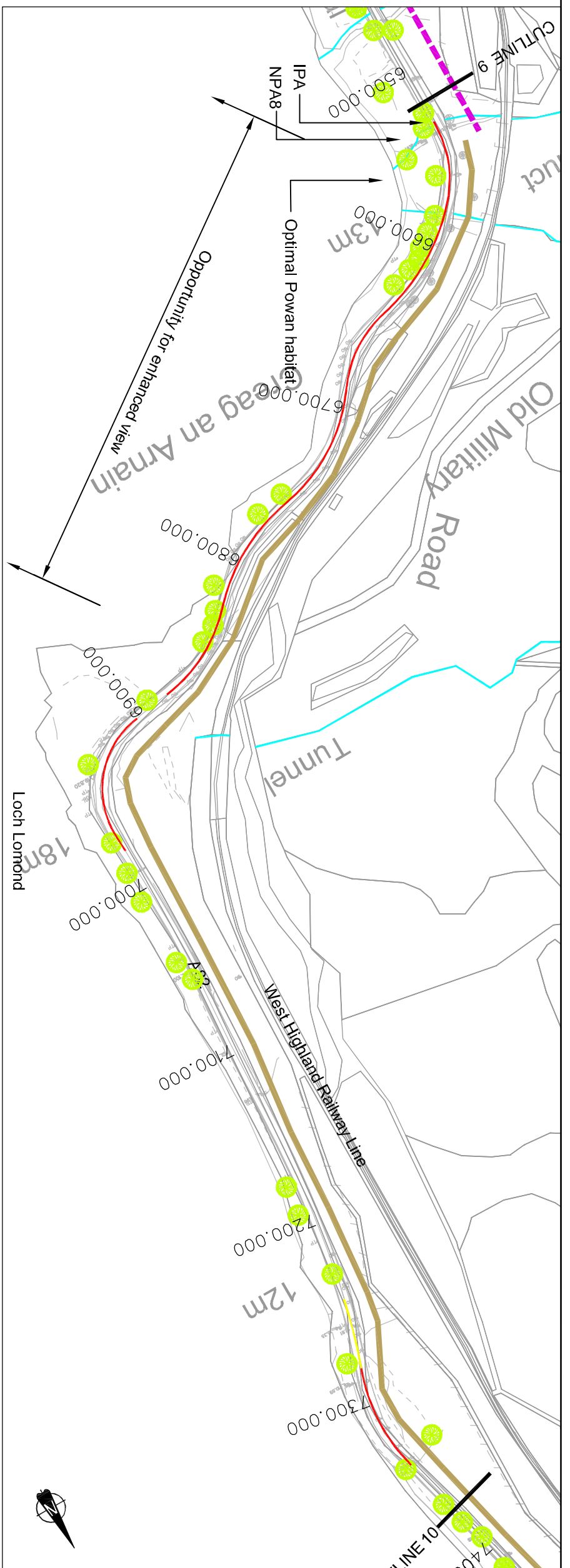
Drawing No. **476416-0000-058**

Revision **3.0**

SIGNIFICANT RESIDUAL RISKS

The following list provides a cross reference between this drawing and the Designer's Health and Safety Risk Assessment, and denotes those areas of Significant Residual Risk

Description of Risk	Ref. No.
CLIENT OPERATIONS	1
ADJACENT ACTIVITIES	2
RESTRICTED SITE	3
TRAFFIC	4
INTERFACE WITH PUBLIC	5
NEAR TO HIGHWAYS	6
NEAR TO RAILWAYS	7
NEAR TO WATERWAYS	8
GROUND INSTABILITY	9
CONTAMINATION/SOIL GAS	10
GROUND WATER	11
INUNDATION	12
SERVICES	13
OVERHEAD CABLES	14
INSECT ATTACK (INCL. MIDGE & TICKS)	15



- KEY**
- Top Viewport**
- Horizontal Alignment Assessment**
- 1 Step below standard
 - 2 Step below standard
 - 3 Step below standard
 - 4 Step below standard
- Access Points**
- Business / commercial access
 - Field access
 - FA
 - IPA
 - LAR
 - PA
 - RSA
 - RA
 - Residential access
 - Railway station access
 - Track road
 - UAR
 - Unknown access road
- Features**
- Potential Rock cut, 0-5m high
 - Potential Rock cut, 5-10m high
 - Potential Rock cut, >10m high
 - Requested parking (suitable)
 - Requested parking (not suitable)
 - Specimen Tree

- Bottom Viewport**
- Public Utilities**
- 11kV Overhead line
 - 11kV Underground cable
 - 132/275kV Overhead line
 - 33kV Overhead line
 - 33kV Underground cable
 - Pilot cable
 - BT Overhead line
 - BT Underground cable
 - Scottish Water distribution main
 - Scottish Water combined sewer
 - Scottish Water supply pipe
- Drainage**
- Existing channel
 - Existing ditch
 - Existing filter drain
 - Hillside run off
 - Watercourses

Client

Project

A82 TARBET TO INVERARNAN UPGRADE

Revision	By	Checked	Approved	Date	Description
3.0	SM	EN	EC	11.12.13	Drawing frame and title block amended.
2.0	MC	EN	EC	11.12.13	Drawing frame and title block amended.
1.0	MC	EN	EC	20.11.13	Footways/footpaths added.

Reproduced by permission of Ordnance Survey on behalf of Her Majesty's Stationery Office. © Crown copyright and database right 2012. All rights reserved. Ordnance Survey Licence Number: 100046689 2010

Drawn by: M COLAHAN Date: 11.11.13

Checked by: E NICOLSON Date: 11.12.13

Authorised by: E CRAWFORD Date: 11.12.13

CAD Filename:

CH2M HILL

FAIRHURST JV

CH2M Hill Fairhurst JV
C/O: City Park 368 Alexandra Parade Glasgow G31 3AU
Tel +44 (0)141 552 2000 Fax +44 (0)141 552 2525

Drawing

EXISTING LAYOUT AND FEATURES

SHEET 10 OF 22

Scale: 1:2500

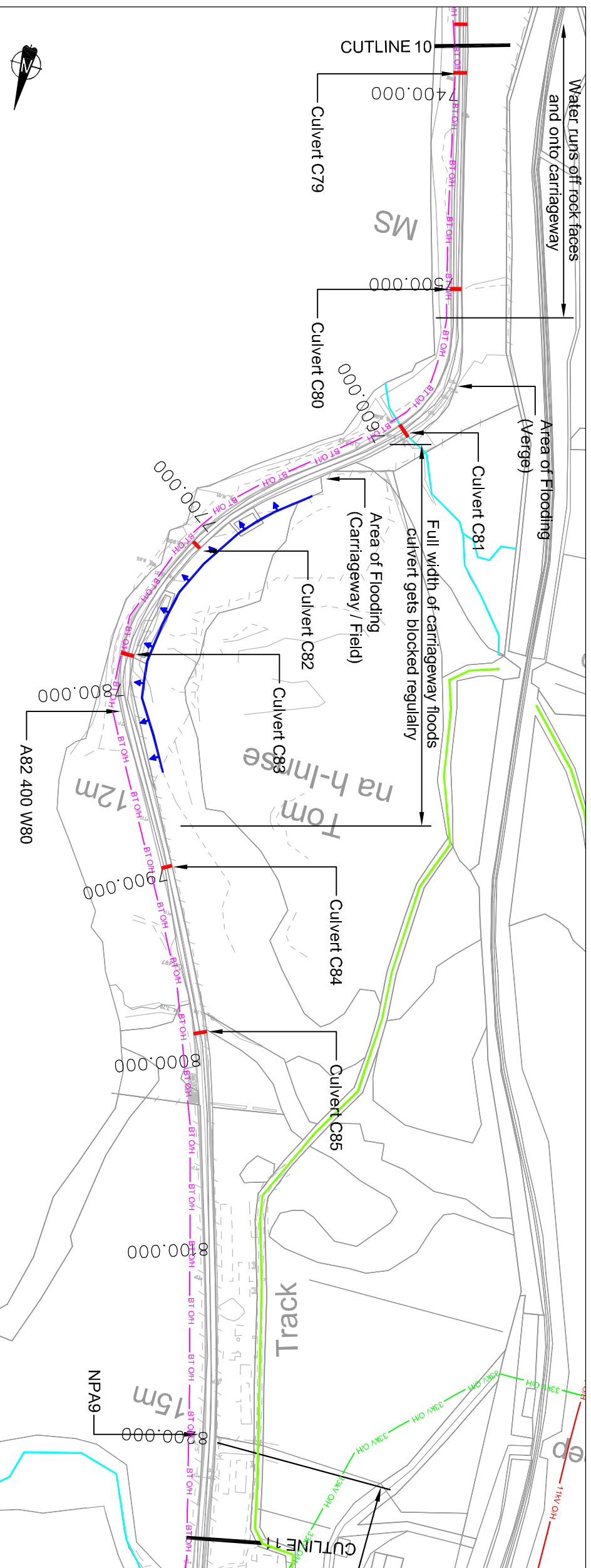
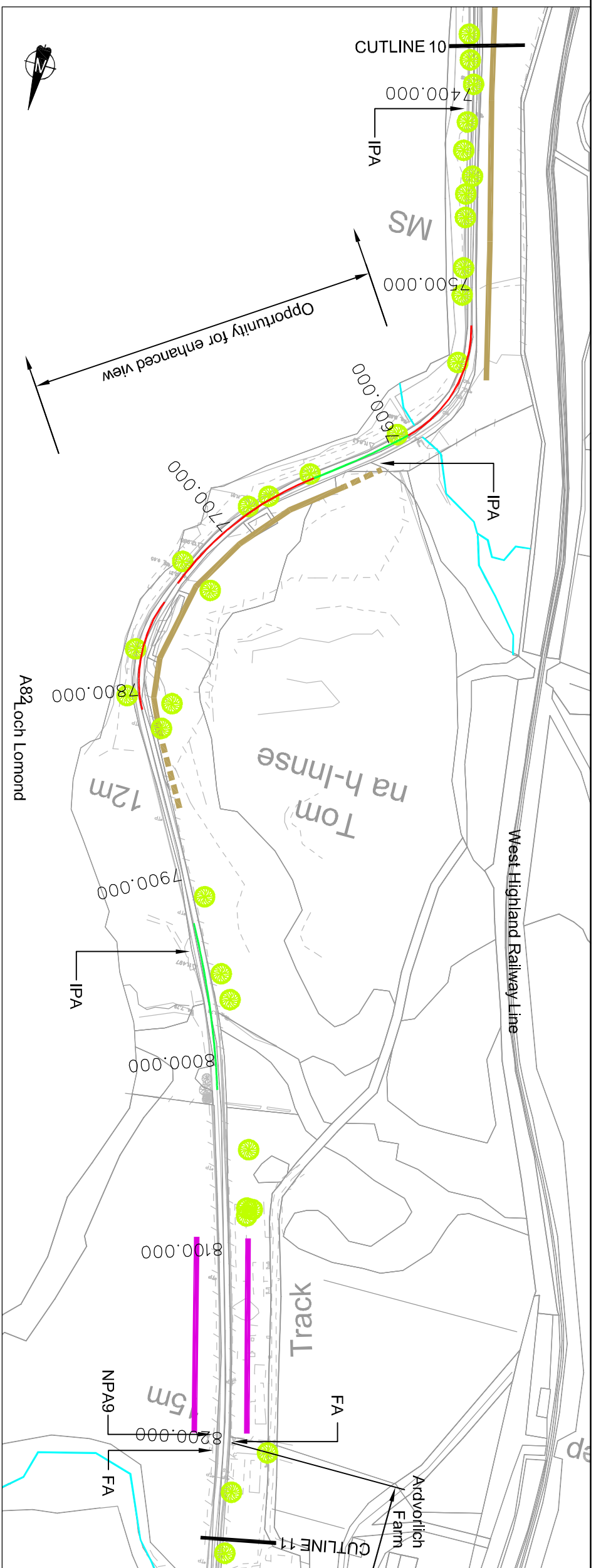
Drawing No. **476416-0000-059**

Revision **3.0**

SIGNIFICANT RESIDUAL RISKS

The following list provides a cross reference between this drawing and the Designer's Health and Safety Risk Assessment, and defines those areas of Significant Residual Risk

Description of Risk	Ref. No.
CLIENT OPERATIONS	1
ADJACENT ACTIVITIES	2
RESTRICTED SITE	3
TRAFFIC	4
INTERFACE WITH PUBLIC	5
NEAR TO HIGHWAYS	6
NEAR TO RAILWAYS	7
NEAR TO WATERWAYS	8
GROUND INSTABILITY	9
CONTAMINATION/SOIL GAS	10
GROUND WATER	11
INUNDATION	12
SERVICES	13
OVERHEAD CABLES	14
INSECT ATTACK (INCL. BEEHIVE & TRUCKS)	15



- KEY**
- Top Viewport**
- Horizontal Alignment Assessment**
- 1 Step below standard
 - 2 Step below standard
 - 3 Step below standard
 - 4 Step below standard
- Access Points**
- BCA Business / commercial access
 - FA Field access
 - IPA Informal parking area
 - LAR Loch access road
 - PA Parking area
 - RA Residential access
 - RSA Railway station access
 - TR Track road
 - UAR Unknown access road
- Features**
- Potential Rock cut, 0-5m high
 - Potential Rock cut, 5-10m high
 - Potential Rock cut, >10m high
 - Requested parking (suitable)
 - Requested parking (not suitable)
 - Specimen Tree
- Bottom Viewport**
- Public Utilities**
- 11kV Overhead line
 - 11kV Underground cable
 - 132/275kV Overhead line
 - 33kV Overhead line
 - 33kV Underground cable
 - PILLOT CABLE
 - Pilot cable
 - BT Overhead line
 - BT Underground cable
 - SW/DN Scottish Water distribution main
 - SW/SW Scottish Water combined sewer
 - SW/SP Scottish Water supply pipe
- Drainage**
- Existing channel
 - Existing ditch
 - Existing filter drain
 - Hillside run off
 - Watercourses

Client: **TRANSPORT SCOTLAND**
The Scottish Government

Project: **A82 TARBET TO INVERARNAN UPGRADE**

Revision	By	Checked	Approved	Date	Description
3.0	SM	EN	EC	11.12.13	Drawing frame and title block amended.
2.0	MC	EN	EC	11.12.13	Drawing frame and title block amended.
1.0	MC	EN	EC	20.11.13	Footways/footpaths added.

Reproduced by permission of Ordnance Survey on behalf of Her Majesty's Stationery Office. © Crown copyright and database right 2012. All rights reserved. Ordnance Survey Licence Number: 100046689 2010

Drawn by: **M COLAHAN** Date: 11.11.13
Checked by: **E NICOLSON** Date: 11.12.13
Authorised by: **E CRAWFORD** Date: 11.12.13
CAD Filename:

CH2M HILL **FARHURST**
CH2M Hill Fairhurst JV
C/O: City Park 368 Alexandra Parade Glasgow G31 3AU
Tel +44 (0)141 552 2000 Fax +44 (0)141 552 2525

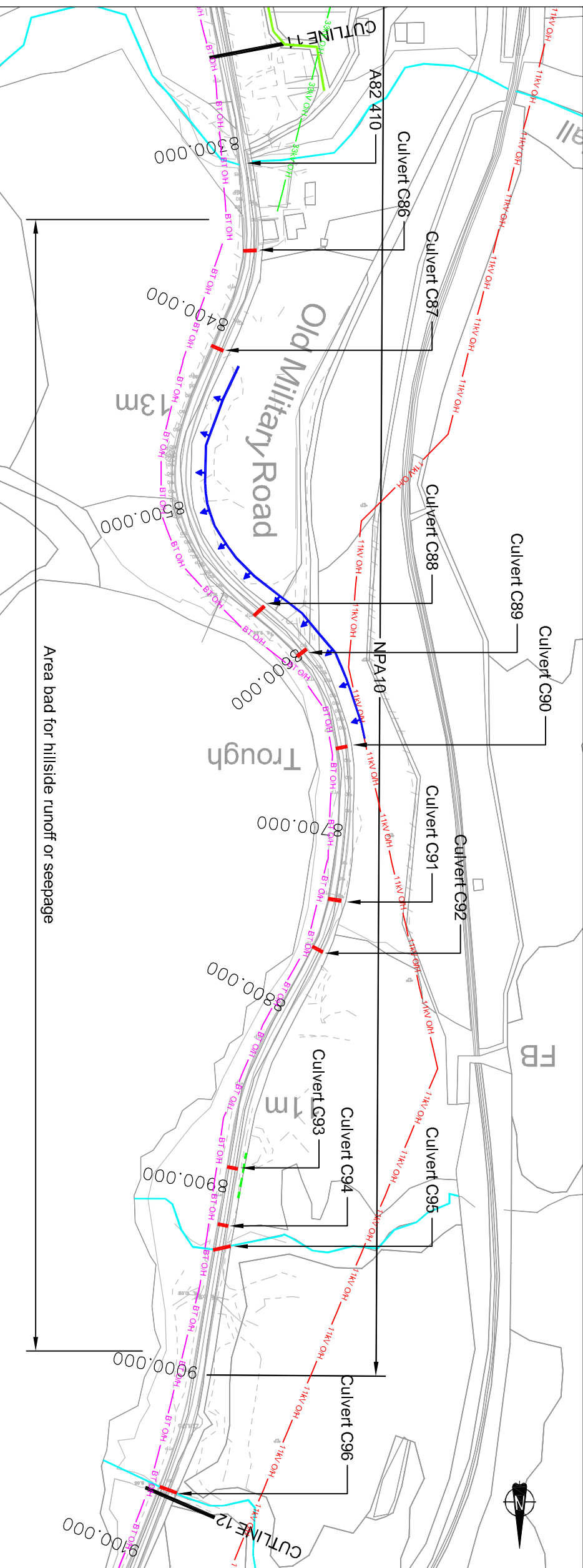
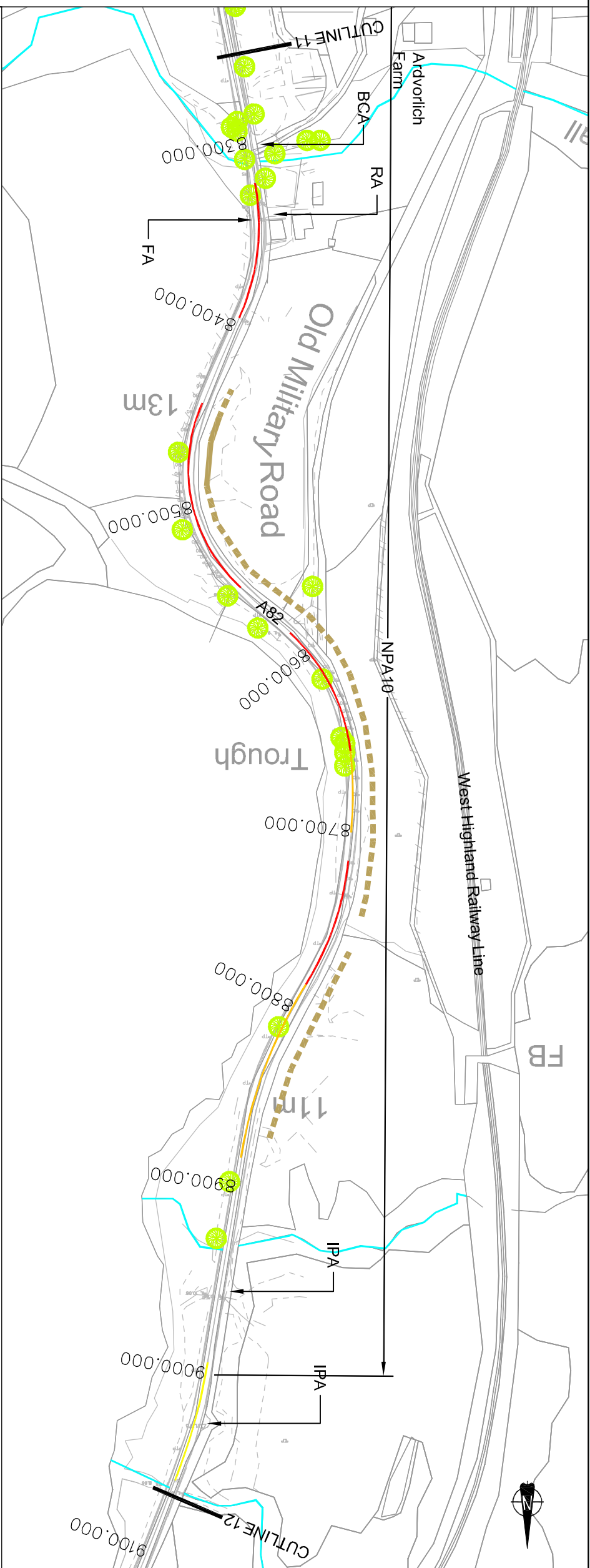
Drawing: **EXISTING LAYOUT AND FEATURES**
SHEET 11 OF 22

Scale: 1:2500
Drawing No. **476416-0000-060**
Revision **3.0**

SIGNIFICANT RESIDUAL RISKS

The following list provides a cross reference between this drawing and the Designer's Health and Safety Risk Assessment, and denotes those areas of Significant Residual Risk

Description of Risk	Ref. No.
CLIENT OPERATIONS	1
ADJACENT ACTIVITIES	2
RESTRICTED SITE	3
TRAFFIC	4
INTERFACE WITH PUBLIC	5
NEAR TO HIGHWAYS	6
NEAR TO RAILWAYS	7
NEAR TO WATERWAYS	8
GROUND INSTABILITY	9
CONTAMINATION/SOIL GAS	10
GROUND WATER	11
INUNDATION	12
SERVICES	13
OVERHEAD CABLES	14
INSECT ATTACK (INCL. NIDJEE & TICKS)	15



Area bad for hillside runoff or seepage

KEY	
Top Viewport	
Horizontal Alignment Assessment	<ul style="list-style-type: none"> 1 Step below standard 2 Step below standard 3 Step below standard 4 Step below standard
Access Points	<ul style="list-style-type: none"> BCA Business / commercial access FA Field access IPA Informal parking area LAR Loch access road PA Parking area RA Residential access RSA Railway station access TR Track road UAR Unknown access road
Features	<ul style="list-style-type: none"> Potential Rock cut, 0-5m high Potential Rock cut, 5-10m high Potential Rock cut, >10m high Requested parking (suitable) Requested parking (not suitable) Specimen Tree
Bottom Viewport	
Public Utilities	<ul style="list-style-type: none"> 11kV Overhead line 11kV Underground cable 132/275kV Overhead line 132/275kV Underground cable 33kV Overhead line 33kV Underground cable Pilot cable BT Overhead line BT Underground cable Scottish Water distribution main Scottish Water combined sewer Scottish Water supply pipe
Drainage	<ul style="list-style-type: none"> Existing channel Existing ditch Existing filter drain Hillside run off Watercourses

Drawing

EXISTING LAYOUT AND FEATURES
SHEET 12 OF 22

Scale:	Drawing No.	Revision
1:2500	476416-0000-061	3.0

Client

Project

Reproduced by permission of Ordnance Survey on behalf of Her Majesty's Stationery Office. © Crown copyright and database right 2012. All rights reserved. Ordnance Survey Licence Number: 100046688 2010

CH2M HILL FAIRHURST JV
C/O: City Park 368 Alexandra Parade Glasgow G31 3AU
Tel: +44 (0)141 552 2000 Fax: +44 (0)141 552 2525

TRANSPORT SCOTLAND
The Scottish Government

Revision	By	Checked	Approved	Date	Description
3.0	SM	EN	EC	11.12.13	Drawing frame and title block amended.
2.0	MC	EN	EC	11.12.13	Drawing frame and title block amended.
1.0	MC	EN	EC	20.11.13	Footways/footpaths added.

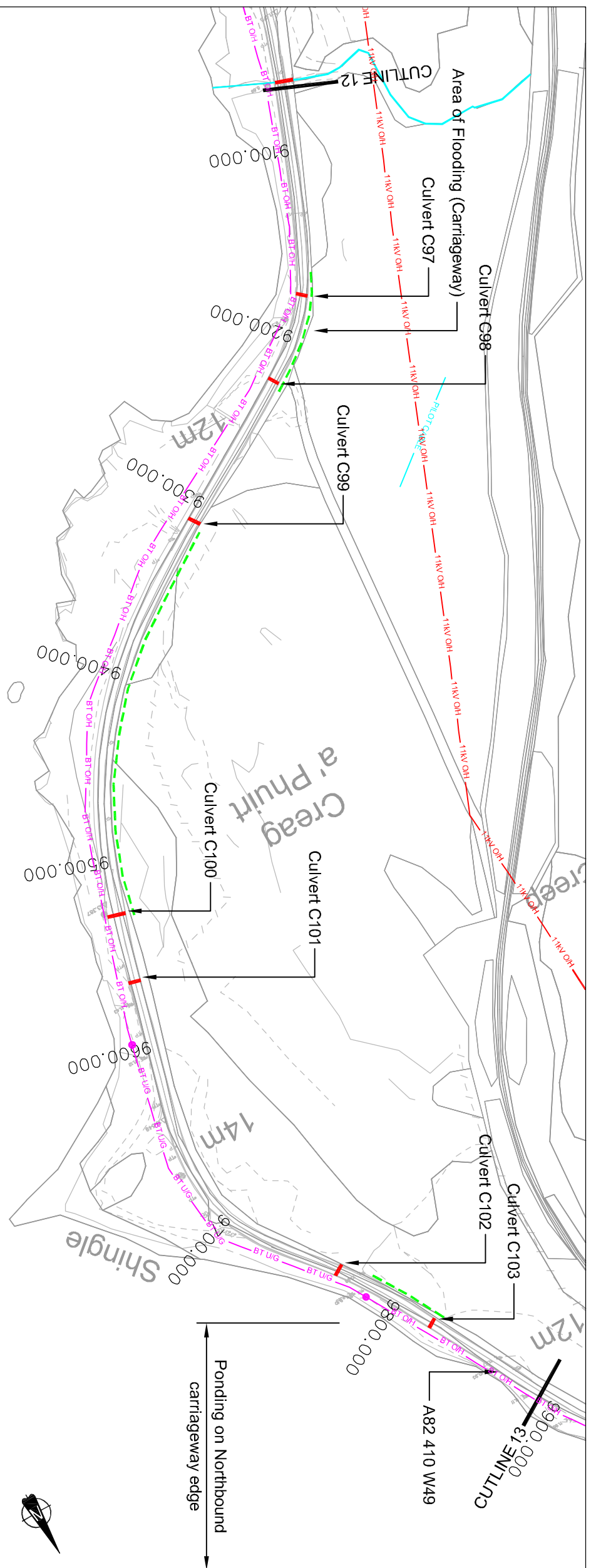
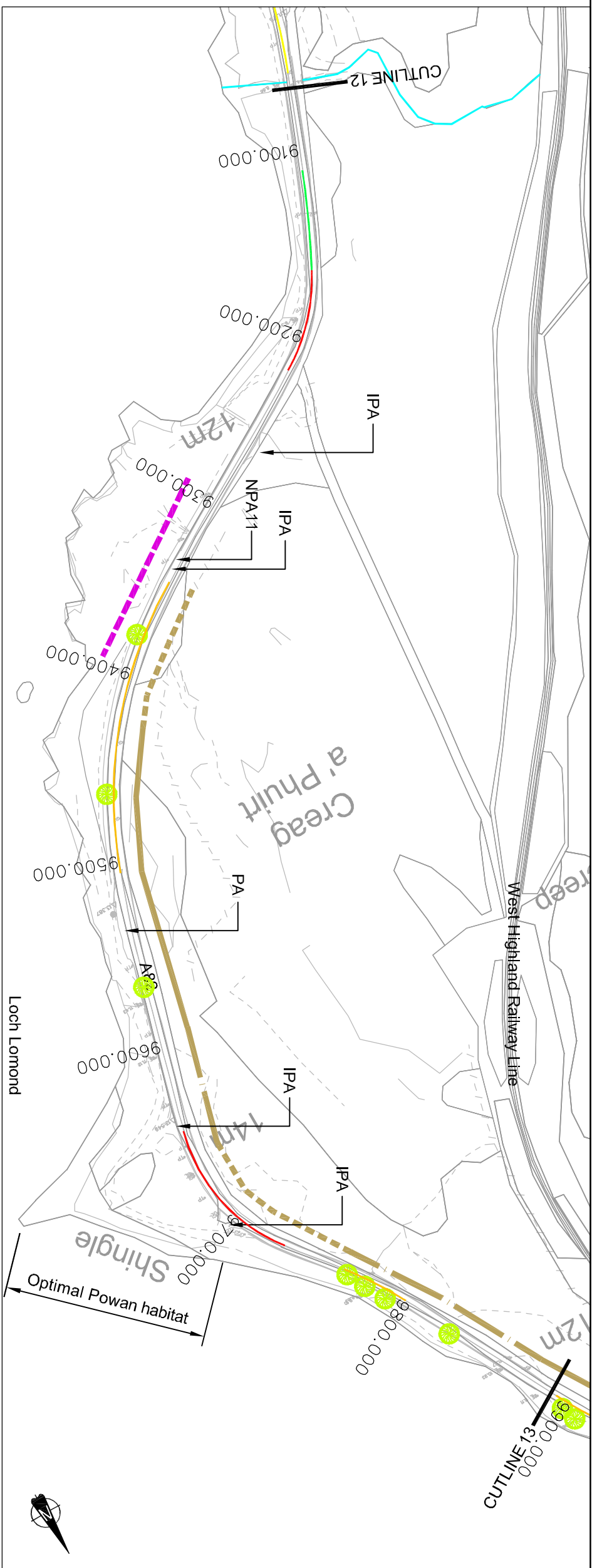
Drawn by:	Checked by:	Authorised by:	Date:
M COLAHAN	E NICOLSON	E CRAWFORD	11.11.13
			11.12.13
			11.12.13

CAD Filename:

SIGNIFICANT RESIDUAL RISKS

The following list provides a cross reference between this drawing and the Designer's Health and Safety Risk Assessment, and identifies those areas of Significant Residual Risk

Description of Risk	Ref. No.
CLIENT OPERATIONS	1
ADJACENT ACTIVITIES	2
RESTRICTED SITE	3
TRAFFIC	4
INTERFACE WITH PUBLIC	5
NEAR TO HIGHWAYS	6
NEAR TO RAILWAYS	7
NEAR TO WATERWAYS	8
GROUND INSTABILITY	9
CONTAMINATION/SOIL GAS	10
GROUND WATER	11
INUNDATION	12
SERVICES	13
OVERHEAD CABLES	14
INSECT ATTACK (INCL. MIDGE & TICKS)	15



KEY

Top Viewport

Horizontal Alignment Assessment

- 1 Step below standard
- 2 Step below standard
- 3 Step below standard
- 4 Step below standard

Access Points

- BCA Business / commercial access
- FA Field access
- IPA Informal parking area
- LAR Loch access road
- PA Parking area
- RA Residential access
- RSA Railway station access
- TR Track road
- UAR Unknown access road

Features

- Potential Rock cut, 0-5m high
- Potential Rock cut, 5-10m high
- Potential Rock cut, >10m high
- Requested parking (suitable)
- Requested parking (not suitable)
- Specimen Tree

Bottom Viewport

Public Utilities

- 11kV Overhead line
- 11kV Underground cable
- 132/275kV Overhead line
- 33kV Overhead line
- 33kV Underground cable
- PILOT CABLE
- BT OH
- BT Undergrnd cable
- BT Overhead line
- BT Undergrnd cable
- SW Scottish Water distribution main
- SWG Scottish Water combined sewer
- SWP Scottish Water supply pipe

Drainage

- Existing channel
- Existing ditch
- Existing filter drain
- Hillside run off
- Watercourses


EXISTING LAYOUT AND FEATURES

SHEET 13 OF 22

Scale: 1:2500

Drawing No. **476416-0000-062**

Revision **3.0**

Client:  The Scottish Government

Project: **A82 TARBET TO INVERARNAN UPGRADE**

Revision	By	Checked	Approved	Date	Description
3.0	SM	EN	EC	11.12.13	Drawing frame and title block amended.
2.0	MC	EN	EC	11.12.13	Drawing frame and title block amended.
1.0	MC	EN	EC	20.11.13	Footways/footpaths added.

Reproduced by permission of Ordnance Survey on behalf of Her Majesty's Stationery Office. © Crown copyright and database right 2012. All rights reserved. Ordnance Survey Licence Number: 100046689 2010

Drawn by: **M COLAHAN** Date: 11.11.13

Checked by: **E NICOLSON** Date: 11.12.13

Authorised by: **E CRAWFORD** Date: 11.12.13

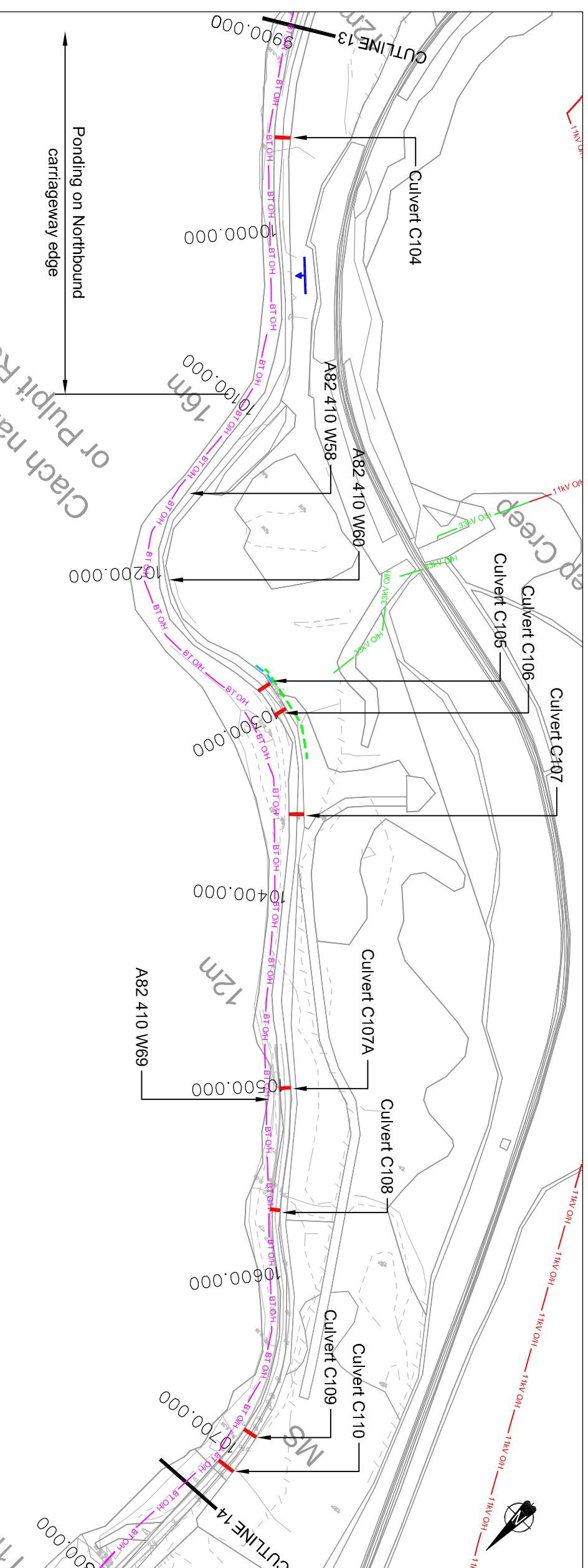
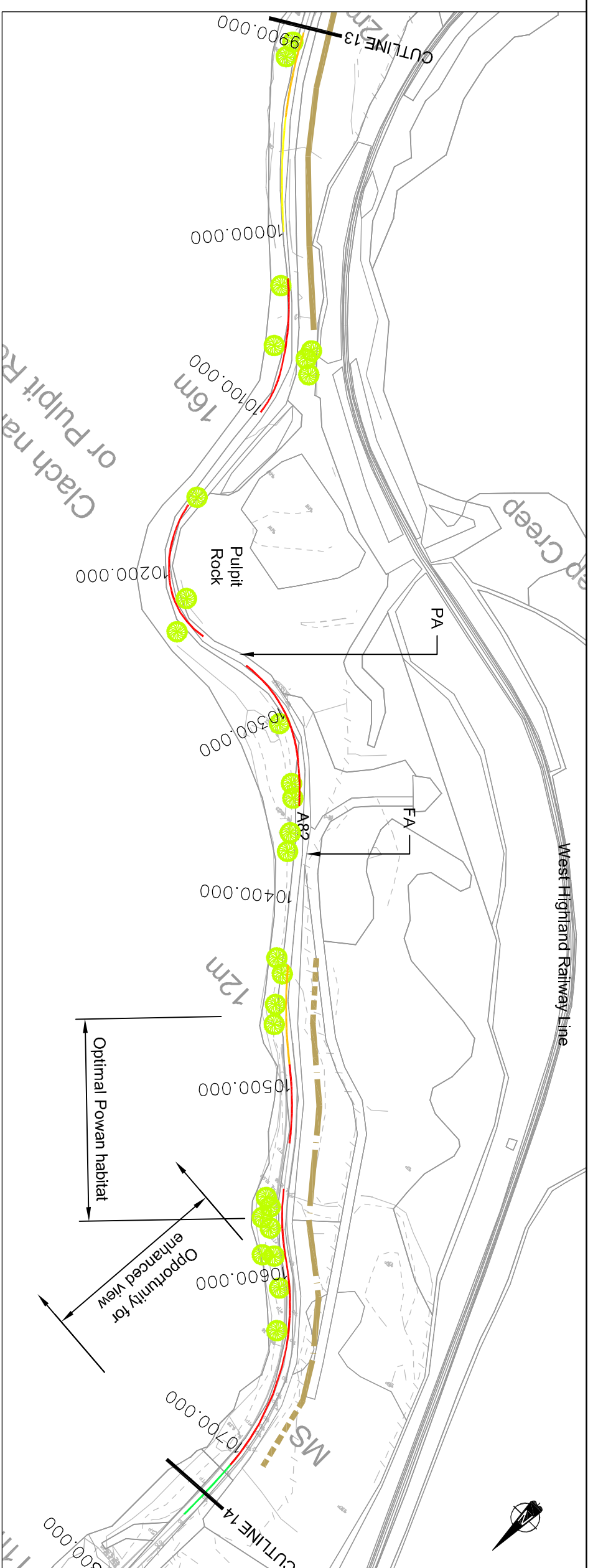
CAD Filename:

CH2M HILL FAIRHURST JV
 C/O: City Park 368 Alexandra Parade Glasgow G31 3AU
 Tel: +44 (0)141 552 2000 Fax: +44 (0)141 552 2525

SIGNIFICANT RESIDUAL RISKS

The following list provides a cross reference between this drawing and the Designer's Health and Safety Risk Assessment, and defines those areas of Significant Residual Risk

Description of risk	Ref. No.
CLIENT OPERATIONS	1
ADJACENT ACTIVITIES	2
RESTRICTED SITE	3
TRAFFIC	4
INTERFERENCE WITH PUBLIC	5
NEAR TO HIGHWAYS	6
NEAR TO RAILWAYS	7
NEAR TO WATERWAYS	8
GROUND INSTABILITY	9
CONTAMINATION/SOIL GAS	10
GROUND WATER	11
INUNDATION	12
SERVICES	13
OVERHEAD CABLES	14
INSECT ATTACK (INCL. MIDGE & TICKS)	15



- KEY**
- Top Viewport**
- Horizontal Alignment Assessment**
- 1 Step below standard
 - 2 Step below standard
 - 3 Step below standard
 - 4 Step below standard
- Access Points**
- Business / commercial access
 - Field access
 - FA
 - IPA
 - Informal parking area
 - Loch access road
 - LAR
 - PA
 - PA
 - RA
 - RSA
 - Railway station access
 - Track road
 - UAR
 - Unknown access road
- Features**
- Potential Rock cut, 0-5m high
 - Potential Rock cut, 5-10m high
 - Potential Rock cut, >10m high
 - Requested parking (suitable)
 - Requested parking (not suitable)
 - Specimen Tree
- Bottom Viewport**
- Public Utilities**
- 11kV Overhead line
 - 11kV Underground cable
 - 132/275kV Overhead line
 - 33kV Overhead line
 - 33kV Underground cable
 - Pilot cable
 - BT Overhead line
 - BT Underground cable
 - Scottish Water distribution main
 - Scottish Water combined sewer
 - Scottish Water supply pipe
- Drainage**
- Existing channel
 - Existing ditch
 - Existing filter drain
 - Hillside run off
 - Watercourses

Client: The Scottish Government

Project: **A82 TARBET TO INVERARNAN UPGRADE**

Reproduced by permission of Ordnance Survey on behalf of Her Majesty's Stationery Office. © Crown copyright and database right 2012. All rights reserved. Ordnance Survey Licence Number: 100046689 2010

Drawn by: **M COLAHAN** Date: 11.11.13

Checked by: **E NICOLSON** Date: 11.12.13

Authorised by: **E CRAWFORD** Date: 11.12.13

CAD Filename:

CH2M HILL FAIRHURST

CH2M Hill Fairhurst JV
 C/O: City Park 368 Alexandra Parade Glasgow G31 3AU
 Tel +44 (0)141 552 2000 Fax +44 (0)141 552 2525

Scale: 1:2500

Drawing No. **476416-0000-063**

Revision **3.0**

Drawing

EXISTING LAYOUT AND FEATURES

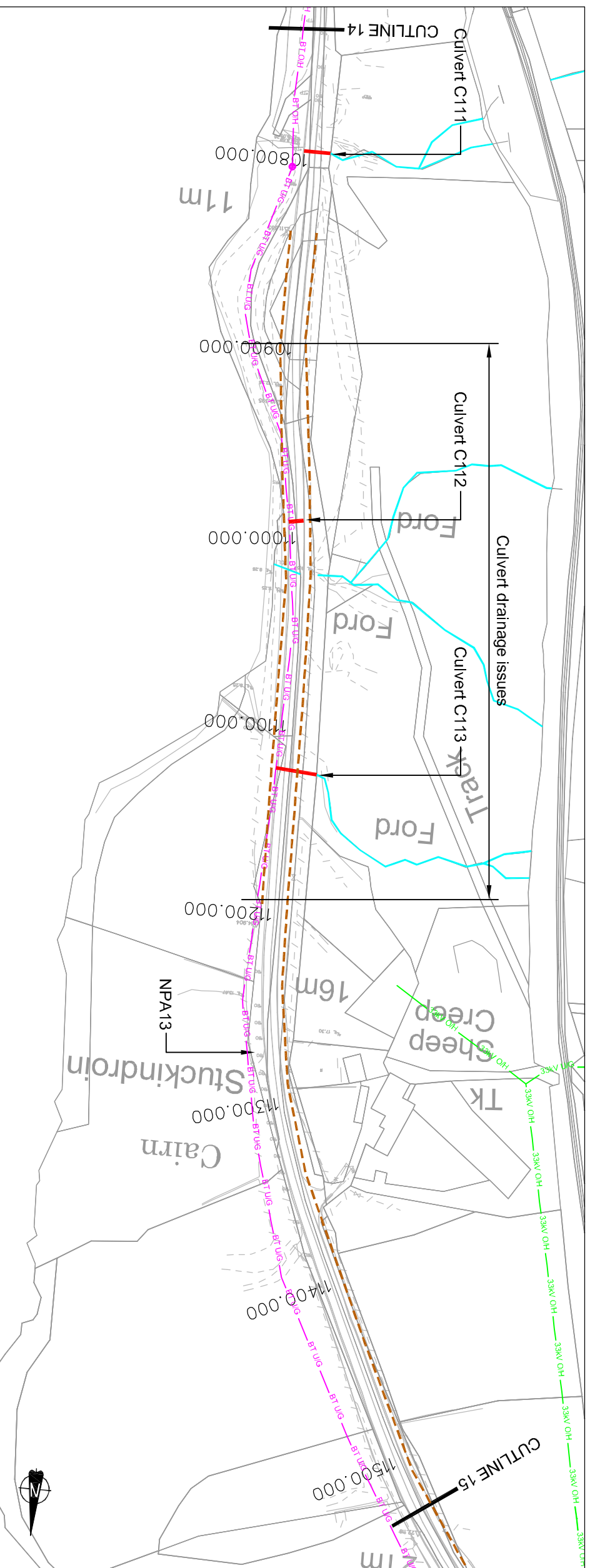
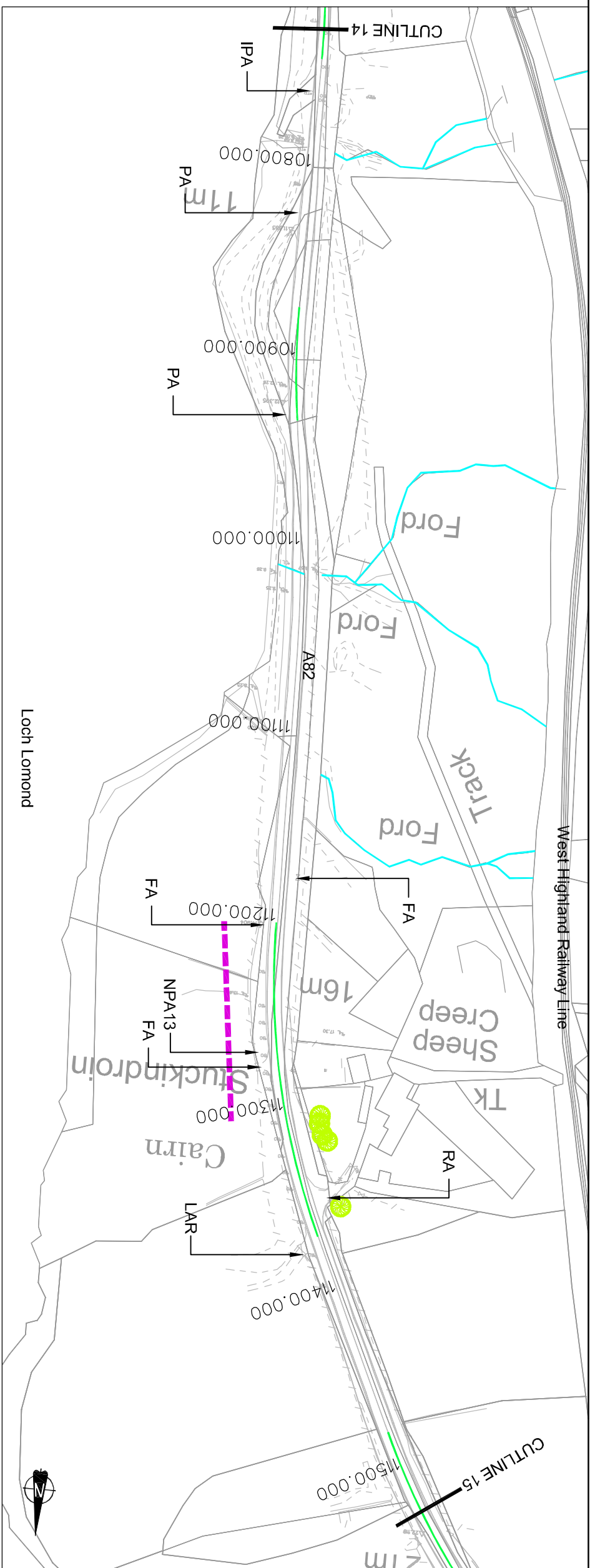
SHEET 14 OF 22

Revision	By	Checked	Approved	Date	Description
3.0	SM	EN	EC	11.12.13	Drawing frame and title block amended.
2.0	MC	EN	EC	11.12.13	Drawing frame and title block amended.
1.0	MC	EN	EC	20.11.13	Footways/footpaths added.

SIGNIFICANT RESIDUAL RISKS

The following list provides a cross reference between this drawing and the Designer's Health and Safety Risk Assessment, and identifies those areas of Significant Residual Risk

Description of Risk	Ref. No.
CLIENT OPERATIONS	1
ADJACENT ACTIVITIES	2
RESTRICTED SITE	3
TRAFFIC	4
INTERFACE WITH PUBLIC	5
NEAR TO HIGHWAYS	6
NEAR TO RAILWAYS	7
NEAR TO WATERWAYS	8
GROUND INSTABILITY	9
CONTAMINATION/SOIL GAS	10
GROUND WATER	11
NUDATION	12
SERVICES	13
OVERHEAD CABLES	14
INSECT ATTACK (INCL. MIDGE & TICKS)	15



- KEY**
- Top Viewport**
- Horizontal Alignment Assessment**
- 1 Step below standard
 - 2 Step below standard
 - 3 Step below standard
 - 4 Step below standard
- Access Points**
- Business / commercial access
 - Field access
 - Informal parking area
 - Loch access road
 - Parking area
 - Residential access
 - Railway station access
 - Track road
 - Unknown access road
- Bottom Viewport**
- Public Utilities**
- 11kV Overhead line
 - 11kV Underground cable
 - 132/275kV Overhead line
 - 33kV Overhead line
 - 33kV Underground cable
 - PILLOT CABLE
 - PILLOT CABLE
 - BT Overhead line
 - BT Underground cable
 - Scottish Water distribution main
 - Scottish Water combined sewer
 - Scottish Water supply pipe
- Drainage**
- Existing channel
 - Existing ditch
 - Existing filter drain
 - Hillside run off
 - Watercourses
- Features**
- Potential Rock cut, 0-5m high
 - Potential Rock cut, 5-10m high
 - Potential Rock cut, >10m high
 - Requested parking (suitable)
 - Requested parking (not suitable)
 - Specimen Tree

<p>Client</p> <p>The Scottish Government</p>	<p>Project</p> <p>A82 TARBET TO INVERARNAN UPGRADE</p>	<p>Reproduced by permission of Ordnance Survey on behalf of Her Majesty's Stationery Office. © Crown copyright and database right 2012. All rights reserved. Ordnance Survey Licence Number: 100046689 2010</p>	<p>CH2M HILL FAIRHURST JV</p> <p>C/O: City Park 368 Alexandra Parade Glasgow G31 3AU Tel +44 (0)141 552 2000 Fax +44 (0)141 552 2525</p>																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Revision</th> <th>By</th> <th>Checked</th> <th>Approved</th> <th>Date</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>3.0</td> <td>SM</td> <td>EN</td> <td>EC</td> <td>11.12.13</td> <td>Drawing frame and title block amended.</td> </tr> <tr> <td>2.0</td> <td>MC</td> <td>EN</td> <td>EC</td> <td>11.12.13</td> <td>Drawing frame and title block amended.</td> </tr> <tr> <td>1.0</td> <td>MC</td> <td>EN</td> <td>EC</td> <td>20.11.13</td> <td>Footways/footpaths added.</td> </tr> </tbody> </table>	Revision	By	Checked	Approved	Date	Description	3.0	SM	EN	EC	11.12.13	Drawing frame and title block amended.	2.0	MC	EN	EC	11.12.13	Drawing frame and title block amended.	1.0	MC	EN	EC	20.11.13	Footways/footpaths added.	<p>Drawn by: M COLAHAN Date: 11.11.13</p> <p>Checked by: E NICOLSON Date: 11.12.13</p> <p>Authorised by: E GRAM/FORD Date: 11.12.13</p> <p>CAD Filename:</p>	<p>Scale: 1:2500</p> <p>Drawing No. 476416-0000-064</p> <p>Revision 3.0</p>	<p>EXISTING LAYOUT AND FEATURES</p> <p>SHEET 15 OF 22</p>
Revision	By	Checked	Approved	Date	Description																						
3.0	SM	EN	EC	11.12.13	Drawing frame and title block amended.																						
2.0	MC	EN	EC	11.12.13	Drawing frame and title block amended.																						
1.0	MC	EN	EC	20.11.13	Footways/footpaths added.																						

SIGNIFICANT RESIDUAL RISKS

The following list provides a cross reference between this drawing and the Designer's Health and Safety Risk Assessment, and identifies those areas of Significant Residual Risk

Description of Risk	Ref. No.
CLIENT OPERATIONS	1
ADJACENT ACTIVITIES	2
RESTRICTED SITE	3
TRAFFIC	4
INTERFACE WITH PUBLIC	5
NEAR TO HIGHWAYS	6
NEAR TO RAILWAYS	7
NEAR TO WATERWAYS	8
GROUND INSTABILITY	9
CONTAMINATION/SOIL GAS	10
GROUND WATER	11
INUNDATION	12
SERVICES	13
OVERHEAD CABLES	14
INSECT ATTACK (INCL. LINDSEY & TICKS)	15

KEY

Top Viewport

Horizontal Alignment Assessment

- 1 Step below standard
- 2 Step below standard
- 3 Step below standard
- 4 Step below standard

Access Points

- BCA Business / commercial access
- FA Field access
- IPA Informal parking area
- LAR Loch access road
- PA Parking area
- RA Residential access
- RSA Railway station access
- TR Track road
- UAR Unknown access road

Features

- Potential Rock cut, 0-5m high
- Potential Rock cut, 5-10m high
- Potential Rock cut, >10m high
- Requested parking (suitable)
- Requested parking (not suitable)
- Specimen Tree

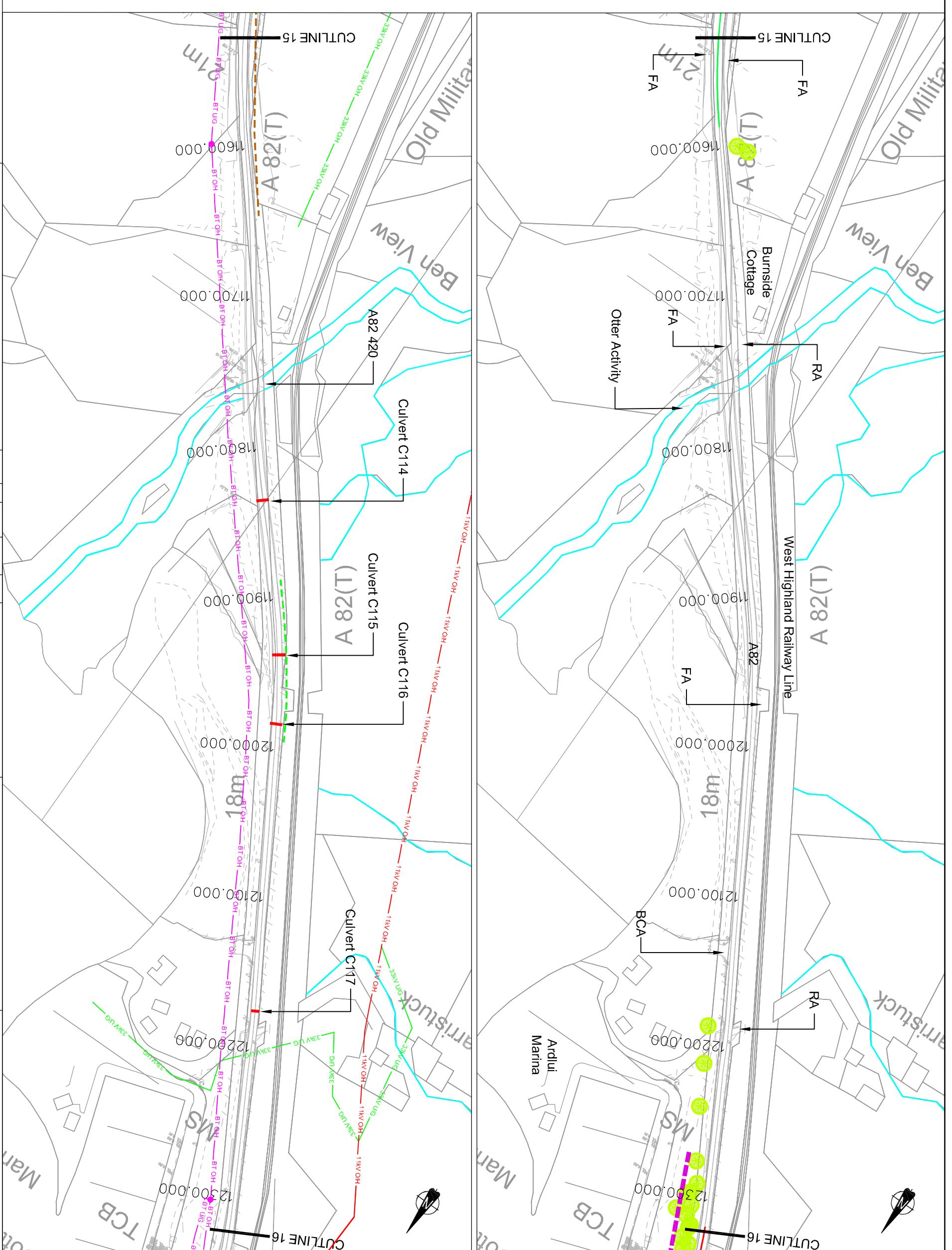
Bottom Viewport

Public Utilities

- 11kV Overhead line
- 11kV Underground cable
- 132/275kV Overhead line
- 33kV Overhead line
- 33kV Underground cable
- Pilot cable
- BT Overhead line
- BT Underground cable
- Scottish Water distribution main
- Scottish Water combined sewer
- Scottish Water supply pipe

Drainage

- Existing channel
- Existing ditch
- Existing filter drain
- Hillside run off
- Watercourses



Client

Project

Reproduced by permission of Ordnance Survey on behalf of Her Majesty's Stationery Office. © Crown copyright and database right 2012. All rights reserved. Ordnance Survey Licence Number: 100046689 2010

CH2M HILL **FAIRHURST**

CH2M Hill Fairhurst JV
 C/O: City Park 368 Alexandra Parade Glasgow G31 3AU
 Tel +44 (0)141 552 2000 Fax +44 (0)141 552 2525

Drawing

EXISTING LAYOUT AND FEATURES

SHEET 16 OF 22

A82 TARBET TO INVERARNAN UPGRADE

Revision	By	Checked	Approved	Date	Description
3.0	SM	EN	EC	11.12.13	Drawing frame and title block amended.
2.0	MC	EN	EC	11.12.13	Drawing frame and title block amended.
1.0	MC	EN	EC	20.11.13	Footways/footpaths added.

Drawn by: M COLAHAN
 Checked by: E NICOLSON
 Authorised by: E CRAWFORD

Date: 11.11.13
 Date: 11.12.13
 Date: 11.12.13

Scale: 1:2500

Drawing No. **476416-0000-065**

Revision **3.0**