

A40 PENBLEWIN TO REDSTONE CROSS IMPROVEMENTS

ENVIRONMENTAL STATEMENT VOLUME 2: FIGURES

July 2020



Volume 2 – Contents

ES Chapter 1 Figures

Figure 1.1 Scheme Location

ES Chapter 2 Figures

Figure 2.1 Administrative Areas
Figure 2.2 Statutory Designations and Key Environmental Constraints
Figure 2.3A Photo Sheet
Figure 2.3B Photo Sheet
Figure 2.3C Photo Sheet

Figure 2.4 Total Permanent Land take for the Scheme

ES Chapter 6 Figures

Figure 6.1 Features and Constraints Plan

ES Chapter 7 Figures

Figure 7.1 Surface Water Features
Figure 7.2 WFD Surface Water Bodies
Figure 7.3 Surface Water Flood Risk
Figure 7.4 WFD Groundwater Bodies
Figure 7.5 Groundwater Features Plan

ES Chapter 8 Figures

Figure 8.1	Statutory Designated Sites for Nature Conservation	Figure 8.11	Bat Roost Survey Results - Buildings
Figure 8.2	Bat SAC's within 30km	Figure 8.12	Bat Roost Survey Results – Trees
Figure 8.3	Phase 1 Habitat Survey Results	Figure 8.13	Static Bat Roost Monitoring Results – April (All Species)
Figure 8.4	Bat (Buildings) Survey Locations	Figure 8.14	Static Bat Roost Monitoring Results – May (All Species)
Figure 8.5	Bat (Trees) Survey Locations	Figure 8.15	Static Bat Roost Monitoring Results – June (All Species)
Figure 8.6	Bat Walked Activity Transect Locations	Figure 8.16	Static Bat Roost Monitoring Results – July (All Species)
Figure 8.7	Bat Activity Static Monitoring Locations	Figure 8.17	Static Bat Roost Monitoring Results – September (All Species)
Figure 8.8	Dormouse Survey Locations	Figure 8.18	Static Bat Roost Monitoring Results – October (All Species)
Figure 8.9	Riparian Mammal Survey Locations	Figure 8.19	Static Bat Roost Monitoring Results – Mean (All Species)
Figure 8.10	Badger Survey Area	Figure 8.20	Dormouse Survey Results

Volume 2 – Contents

ES Chapter 8 Figures

(cont'd)

Figure 8.21	Riparian Mammal Survey Results
Figure 8.22	Badger Survey Results Summary (CONFIDENTIAL)
Figure 8.23	Bat Flight Route R1
Figure 8.24	Bat Flight Route R2
Figure 8.25	Bat Flight Route R3
Figure 8.26	Bat Flight Route R5
Figure 8.27	Bat Flight Route R6

ES Chapter 9 Figures

Figure 9.1	Zone of Theoretical Visibility	Figure 9.7A	Visual Effects (Sheet 1 of 9)
Figure 9.2	Landform and Terrain	Figure 9.7B	Visual Effects (Sheet 2 of 9)
Figure 9.3	Landscape Designations	Figure 9.7C	Visual Effects (Sheet 3 of 9)
Figure 9.4	Transport and Recreation Routes	Figure 9.7D	Visual Effects (Sheet 4 of 9)
Figure 9.5	Landscape Character Areas	Figure 9.7E	Visual Effects (Sheet 5 of 9)
Figure 9.6	Overview of Visual Effects	Figure 9.7F	Visual Effects (Sheet 6 of 9)
		Figure 9.7G	Visual Effects (Sheet 7 of 9)
		Figure 9.7H	Visual Effects (Sheet 8 of 9)
		Figure 9.7I	Visual Effects (Sheet 9 of 9)

ES Chapter 10 Figures

Figure 10.1	Cultural Heritage Designated Sites
Figure 10.2	Effects on Cultural Heritage Assets
Figure 10.3	Photo Sheet

ES Chapter 11 Figures

Figure 11.1	Community Assets
Figure 11.2	Local Community Assets

ES Chapter 12 Figures

Figure 12.1	Predictive Agricultural Land Classification
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Volume 2 – Contents

ES Chapter 13 Figures

Figure 13.1	Air Quality Study Area	Figure 13.6	Assessed Receptor Locations
Figure 13.2	Air Quality Monitoring Locations	Figure 13.7	Construction Dust Buffers
Figure 13.3	Baseline Modelled Roads	Figure 13.8	NO ₂ Impact Descriptor
Figure 13.4	Do Minimum Modelled Roads	Figure 13.9	PM ₁₀ Impact Descriptor
Figure 13.5	Modelled Roads in the Do Something Scenario		

ES Chapter 14 Figures

Figure 14.1	Noise Study Area, Noise Survey & Assessment Locations and Baseline Noise Levels (LA _{10, 18HR}) in 2022
Figure 14.2	Noise Changes (LA _{10, 18HR}) in the Future Year (2037) without the Scheme
Figure 14.3	Noise Changes (LA _{10, 18HR}) as a result of the Scheme in the Baseline Year (2022)
Figure 14.4	Noise Changes (LA _{10, 18HR}) as a result of the Scheme in the Future Year (2037)

ES Chapter 15 Figures

Figure 15.1	Existing Public Rights of Way and other routes used by Walkers, Cyclists and Horse Riders (WCHRs)
Figure 15.2	Public Rights of Way and other routes used by WCHRs in relation to the Scheme

ES Chapter 16 Figures

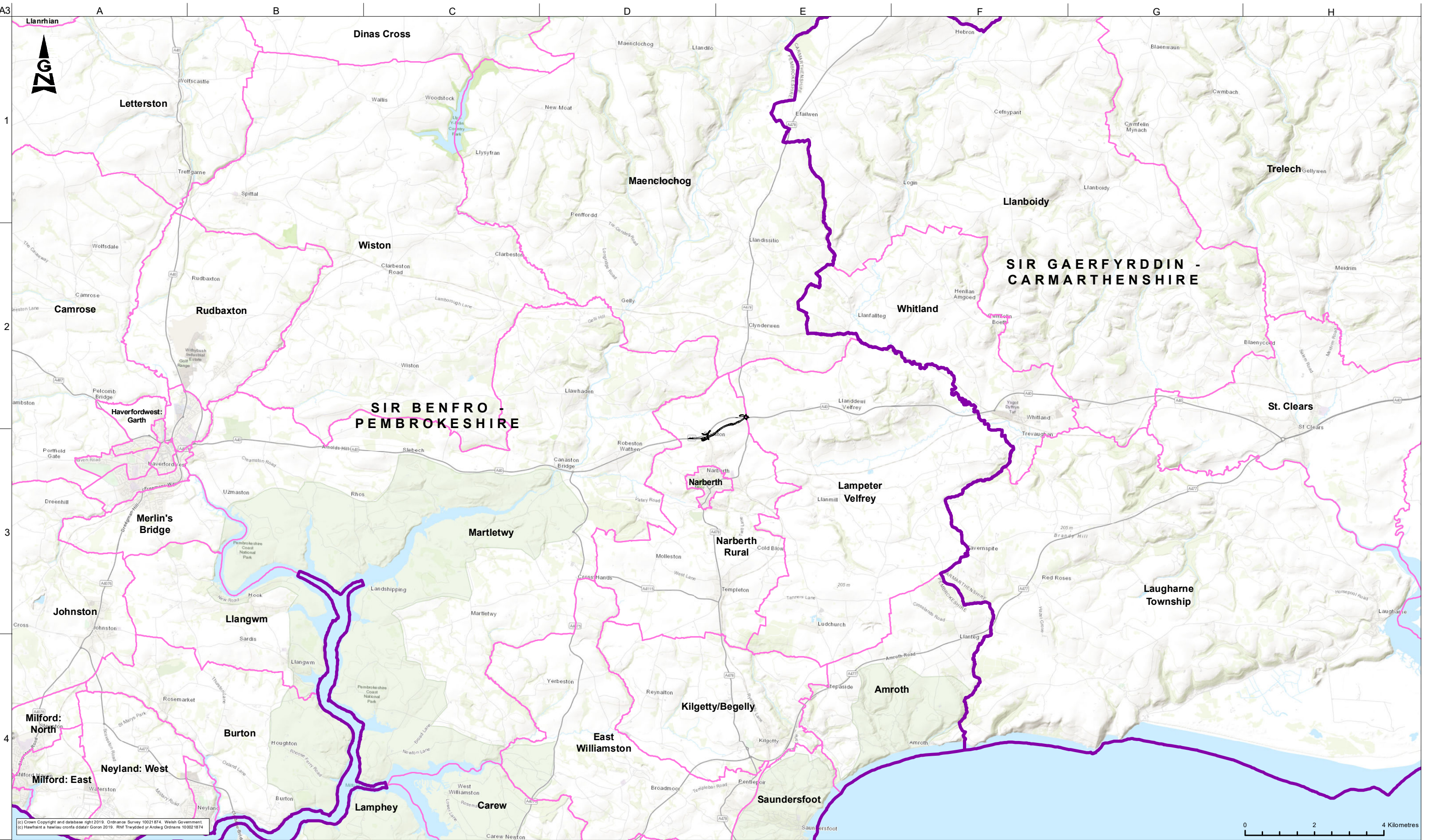
Figure 16.1	Waste Management Facilities
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ES Chapter 17 Figures

Figure 17.1	Multiple Index of Deprivation, Quintiles within Wales
Figure 17.2	Health Deprivation, Quintiles within Wales

ES Chapter 19 Figures

Figure 19.1	Assessment of Cumulative Effects
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LEGEND

- PROPOSED ALIGNMENT
- COUNTY BOUNDARY
- COMMUNITY COUNCIL BOUNDARIES

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION


In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log)



Construction	None
Maintenance / Cleaning	None
Use	None
Decommissioning / Demolition	None

P01	22/06/20	FIRST ISSUE	AC	AS	RC	GD
Rev	Date	Description	By	Chkd	Appd	Auth



Project Title
A40 PENBLEWIN TO REDSTONE CROSS IMPROVEMENTS

Client


Llywodraeth Cymru
Welsh Government

Delivery Team

Drawing Title
FIGURE 2.1 ADMINISTRATIVE AREAS

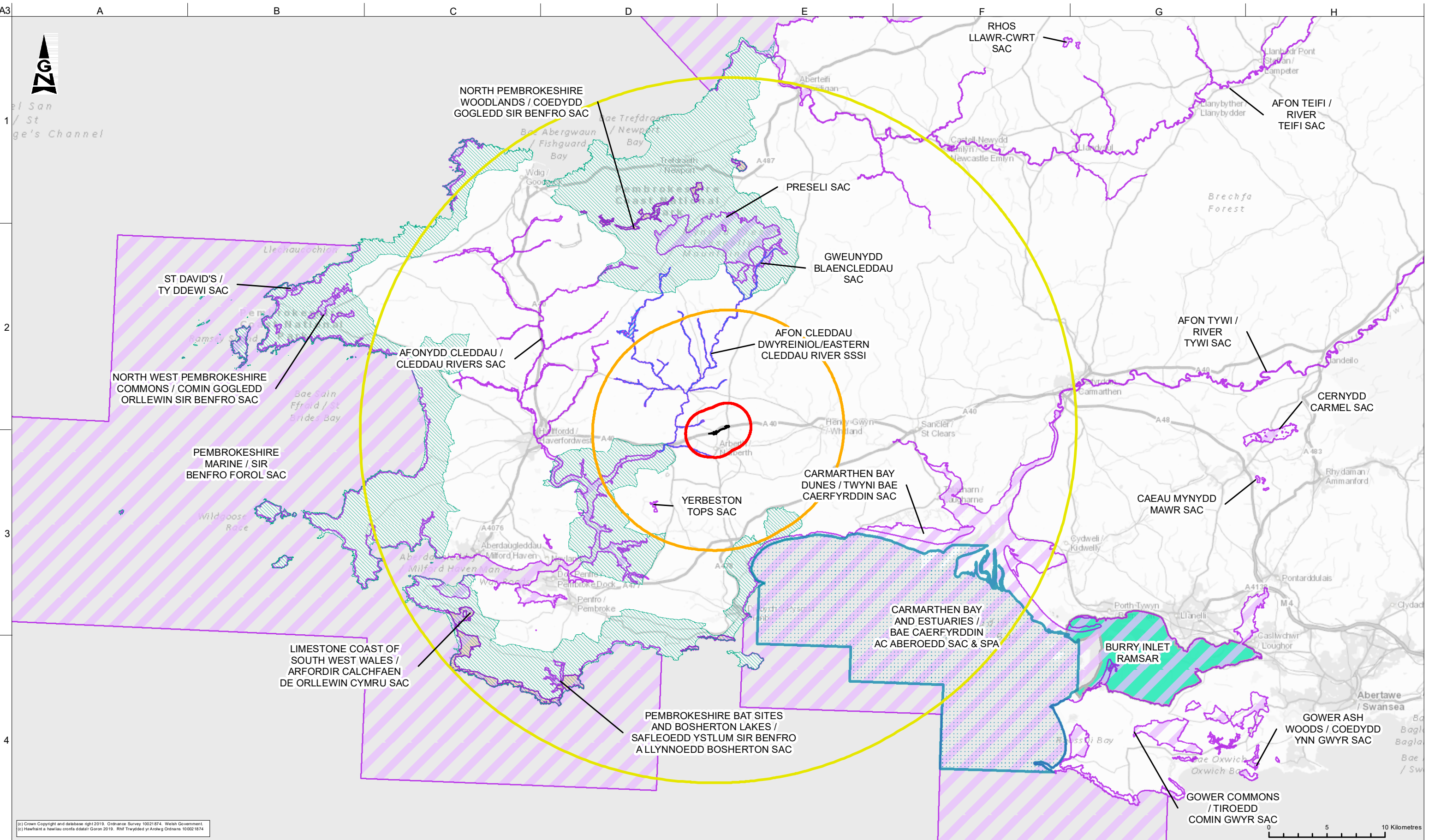
Suitability
S4 | SUITABLE FOR STAGE APPROVAL

Scale at A3
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Rev	By	AC	Chkd	AS	Appd	RC	Auth	GD
P01	Date	22/06/20	Date	22/06/20	Date	22/06/20	Date	22/06/20

Name
A40PRC - ARP - ELS- SWI - DR - C - 0001

Project	Originator	Volume	Location	Type	Role	Number
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LEGEND

PROPOSED ALIGNMENT

2KM BUFFER

10KM BUFFER

30KM BUFFER

SPA

SSSI

PEMBROKESHIRE COAST NATIONAL PARK

SAC

BAT SAC

RAMSAR

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log)

Construction	None
Maintenance / Cleaning	None
Use	None
Decommissioning / Demolition	None

P01	22/06/20	FIRST ISSUE	AC	AS	RC	GD
Rev	Date	Description	By	Chkd	Appd	Auth

Project Title
A40 PENBLEWIN TO REDSTONE CROSS IMPROVEMENTS

Client
Uywodraeth Cymru
Welsh Government

Delivery Team
ARUP

Drawing Title
FIGURE 2.2 STATUTORY DESIGNATIONS AND KEY ENVIRONMENTAL CONSTRAINTS IN THE VICINITY OF THE SCHEME

Scale at A3
1:300,000

Rev	By	Chkd	Appd	Auth
P01	AC	AS	RC	GD
Date	22/06/20	22/06/20	22/06/20	22/06/20

Name
A40LVP - ARP - EGN - SWI - DR - LE - 0002

Project	Originator	Volume	Location	Type	Role	Number
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1. View east along the A40 towards Redstone Cross (April 2019)



2. View south east to Redstone Cottages at Redstone Cross
(April 2019)



3. View north to Redstone Farm at Redstone Cross (April 2019)



4. View south along the B4313 Redstone Road with Blaenmorlais Care Home to the left (April 2019)



5. View south east along the B4313 towards Redstone Cross with Redstone Cottages terminating the view (April 2019)



6. View west along the A40 with Blackmoor Farm in the centre (August 2019)

LEGEND


SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log)	
Construction	
None	
Maintenance / Cleaning	
None	
Use	
None	
Decommissioning / Demolition	
None	

P01	22/06/20	FIRST ISSUE	AC	AS	RC	GD
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Welsh Government



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Drawing Title

FIGURE 2.3A
PHOTO SHEET

Suitability

S4 | SUITABLE FOR STAGE APPROVAL

Scale at A3

N/A

Rev	By	AC	Chkd	AS	Appd	RC	Auth	GD
P01	Date	22/06/20	Date	22/06/20	Date	22/06/20	Date	22/06/20

Name

A40PRC - ARP - ELS- SWI - DR - C - 0002

Project	Originator	Volume	Location	Type	Role	Number
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10. Oblique aerial view looking east along the A40 and the Sodston Ridge with the A40 crossing bottom right to top centre with Blackmoor Farm and the A40 layby visible in middle distance (June 2019)



11. View east along the A40 towards the layby to the west of Penblewin Roundabout (May 2017)



12. View north over the Sodston Ridge towards the Preseli Hills (April 2019)



13. View east across Penblewin Roundabout with Penblewin Farm visible to the right (May 2017)



14. View east across fields to Penblewin Farm to the south of the A40 (July 2017)



15. View south from Penblewin Roundabout towards high ground around Cold Blow and Templeton. Narberth lies out of view to the right of the frame. Penblewin Farm lies to the left (May 2017).

LEGEND

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log)	
Construction	
None	
Maintenance / Cleaning	
None	
Use	
None	
Decommissioning / Demolition	
None	

P01	22/06/20	FIRST ISSUE	AC	AS	RC
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Project Title

A40 PENBLEWIN TO REDSTONE CROSS IMPROVEMENTS

Client:



lywodraeth Cymru
Welsh Government



RICHARDS
MORERDUN LTD
PLANNING | LANDSCAPE | ENVIRONMENT

Drawing Title

FIGURE 2.3C
PHOTO SHEET

Suitability

S4 | SUITABLE FOR STAGE APPROVAL

Scale at A3

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	Date 22/06/20	Date 22/06/20	Date 22/06/20	Date 22/06/20

Name							
A40PRC - ARP - ELS-			SWI - DR - C - 0004				
Project	Originator	Volume	Location	Type	Role	Number	



LEGEND

— NEW SECTION OF TRUNK ROAD
 PERMANENT HIGHWAY LAND WITHIN FENCELINE, INCLUDING WATER TREATMENT AREAS
 TEMPORARY CONSTRUCTION LAND
 OTHER PERMANENT LAND TAKE E.G. MITIGATION PLANTING

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log)

Construction
None
Maintenance / Cleaning
None
Use
None
Decommissioning / Demolition
None

P01	23/06/20	FIRST ISSUE	AC	GJ	RC
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Project Title

**A40 PENBLEWIN TO REDSTONE CROSS
IMPROVEMENTS**

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Welsh Government



Delivery Team



Drawing Title

FIGURE 2.4
TOTAL PERMANENT LANDTAKE
OF THE SCHEME

Suitability

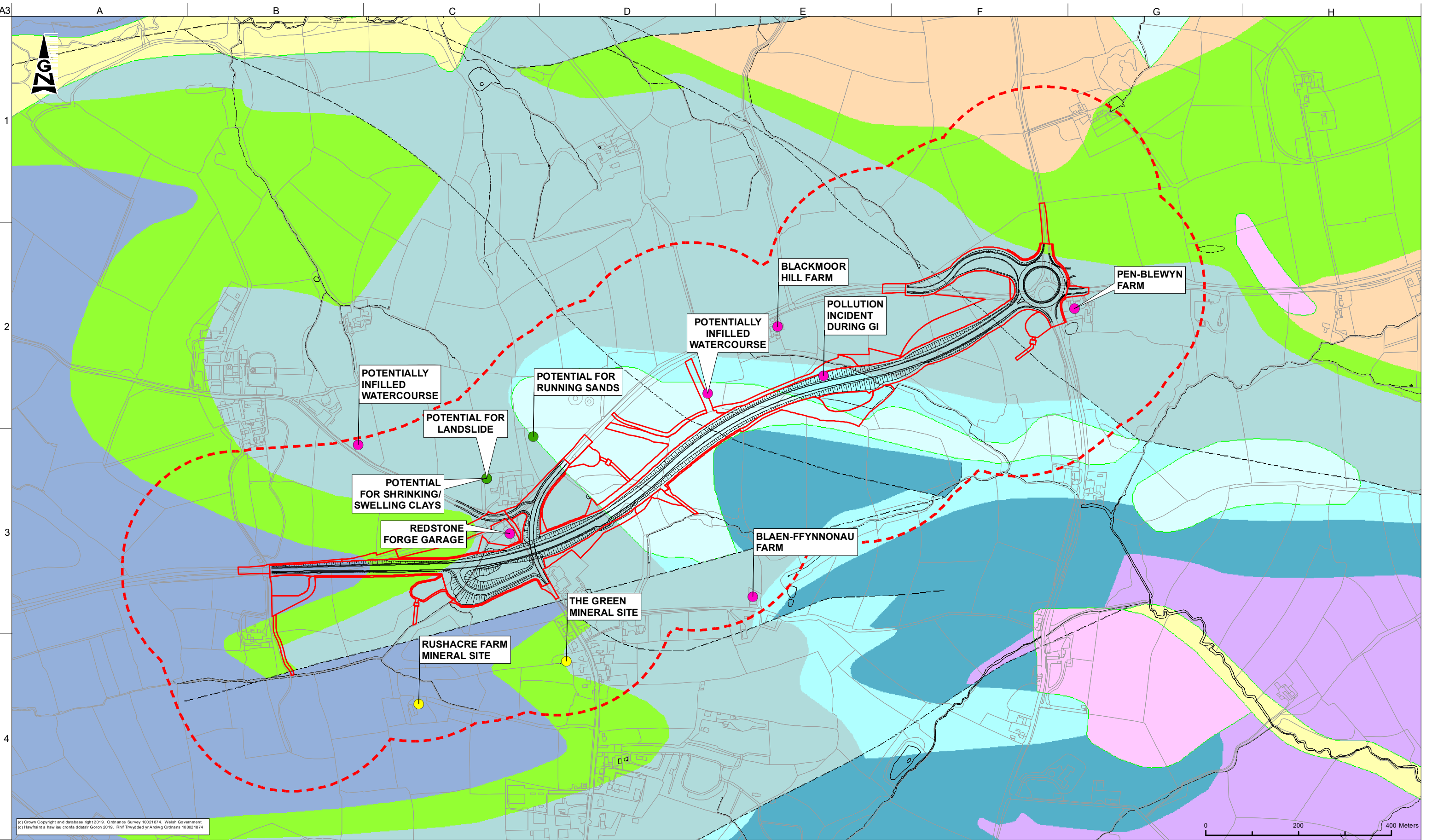
S4 | SUITABLE FOR STAGE APPROVAL

Scale at A3

1:5,000

Rev P01	By AC	Chkd GJ	Appd RC	Auth GD
	Date 23/06/20	Date 23/06/20	Date 23/06/20	Date 23/06/20

Name		A40PRC - ARP - EGN -		SWI		- DR - ZL - 0001	
Project	Originator	Volume	Location	Type	Role	Number	



LEGEND

TYPE

- GROUND HAZARD
- MINERAL SITE
- POTENTIAL SOURCE OF CONTAMINATION
- ▭ PROPOSED FENCELINE
- ▭ PROPOSED FENCELINE 250M BUFFER
- PREFERRED

- GLACIAL TILL
- HAVERFORD BEDS (CETHINGS SANDSTONE)
- HAVERFORD BEDS (GASWORKS SANDSTONE)
- LLANDEILO LIMESTONE FORMATION
- MYDRIM SHALES (DICRANOGRAPTUS BEDS FORMATION)
- SLADE AND REDHILL FORMATION
- GEOLOGICAL FAULT


SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION




In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log)

Construction	None
Maintenance / Cleaning	None
Use	None
Decommissioning / Demolition	None

P01	03/02/20	FIRST ISSUE	AC	AP	RC	GD
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A40 PENBLEWIN TO REDSTONE CROSS IMPROVEMENTS

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Drawing Title
**FIGURE 6.1
FEATURES AND
CONSTRAINTS PLAN**

Scale at A3
1:7,500

Rev	By	Chkd	Appd	Auth
P01	AC	AP	RC	GD
Date	03/02/20	03/02/20	03/02/20	03/02/20

Name
A40PRC - ARP - EGT - SWI - DR - LE - 0003

Project	Originator	Volume	Location	Type	Role	Number
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Drawing Title

FIGURE 7.1
SURFACE WATER FEATURES

Sustainability

S4

SUITABLE FOR STAGE APPROVAL

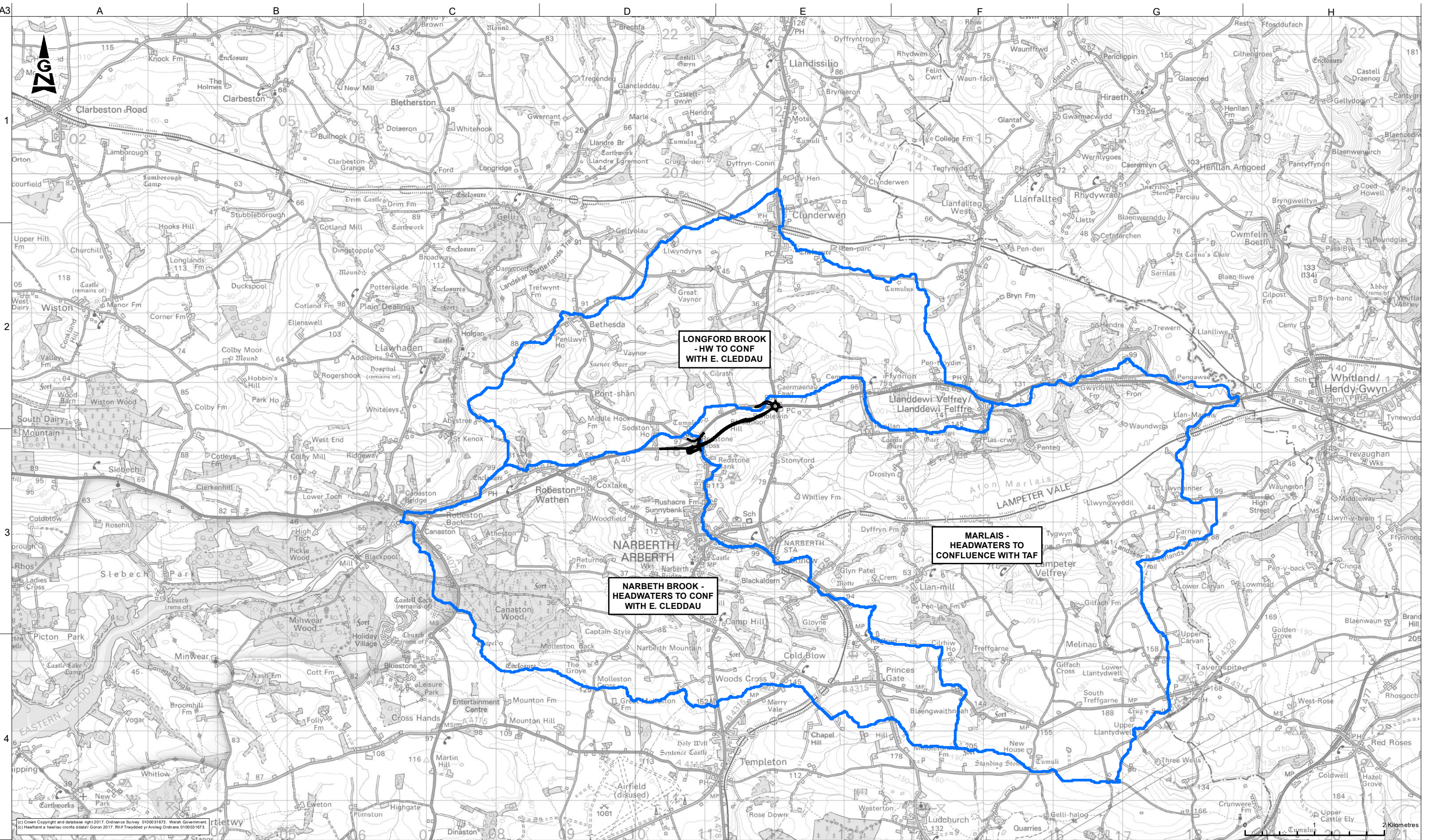
Scale at AS

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Rev	By	Chkd	Appd	Auth
P01	AC	MJ	RC	GD
	Date 22/06/20	Date 22/06/20	Date 22/06/20	Date 22/06/20

Name

A40PRC - ARP - EWE - SWI - DR - C - 0001



LEGEND

— PROPOSED ALIGNMENT

— WFD SURFACE WATER BODIES


SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION





In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log)

Construction	None
Maintenance / Cleaning	None
Use	None
Decommissioning / Demolition	None

P01	22/06/20	FIRST ISSUE	AC	MJ	RC	GD
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A40 PENBLEWIN TO REDSTONE CROSS IMPROVEMENTS

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Uywodraeth Cymru
Welsh Government

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Drawing Title
**FIGURE 7.2
WFD SURFACE WATERBODY CATCHMENTS**

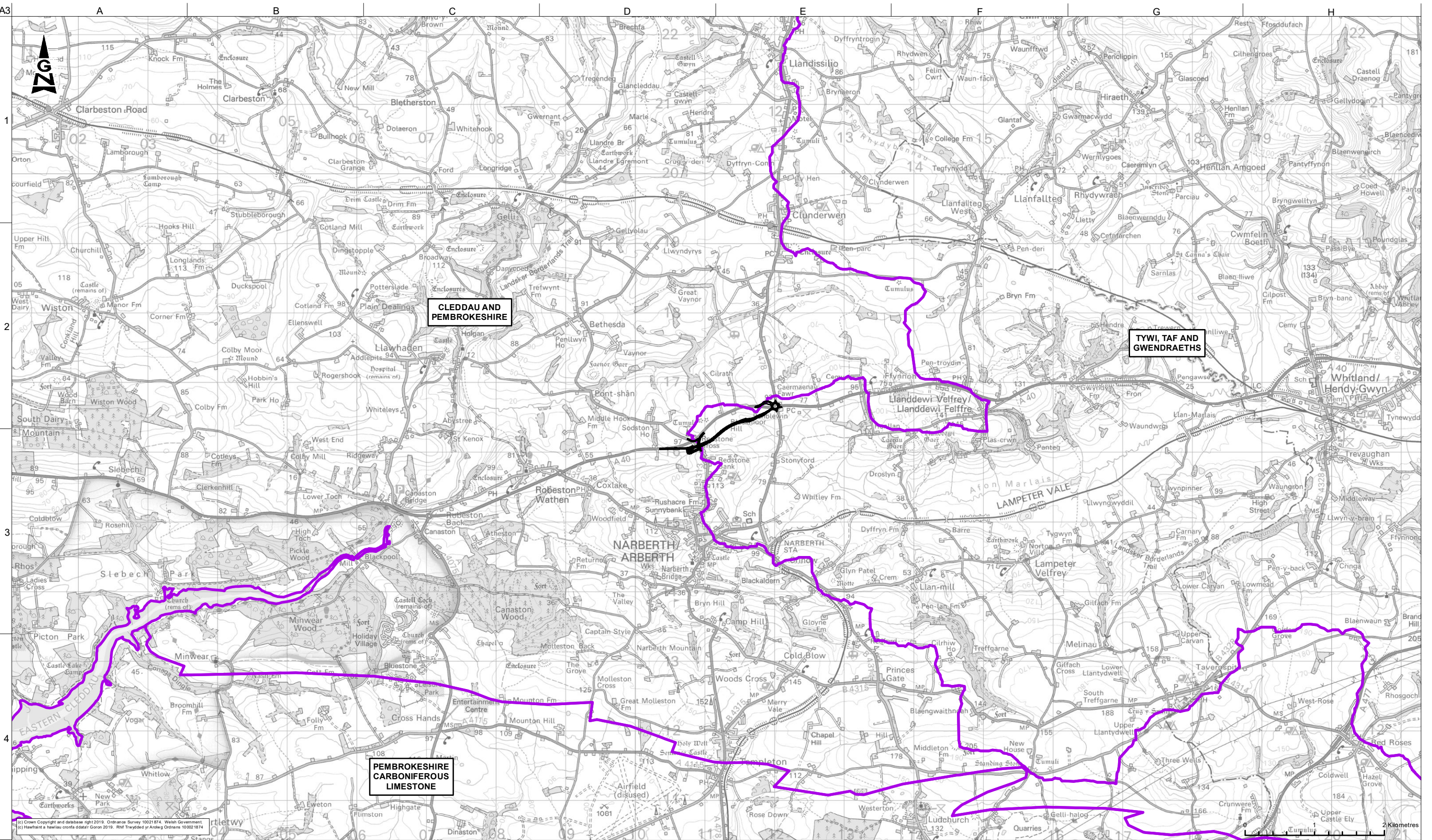
Suitability
S4 | SUITABLE FOR STAGE APPROVAL

Scale at A3
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P01	AC	MJ	RC	GD
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Name
A40PRC - ARP - EWE - SWI - DR - C - 0002

Project	Originator	Volume	Location	Type	Role	Number
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LEGEND

— PROPOSED ALIGNMENT

▭ WFD GROUNDWATER BODIES


SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION



In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log)

Construction	None
Maintenance / Cleaning	None
Use	None
Decommissioning / Demolition	None

P01	22/06/20	FIRST ISSUE	AC	MJ	RC	GD
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A40 PENBLEWIN TO REDSTONE CROSS IMPROVEMENTS

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Drawing Title
**FIGURE 7.3
WFD GROUNDWATER BODIES**

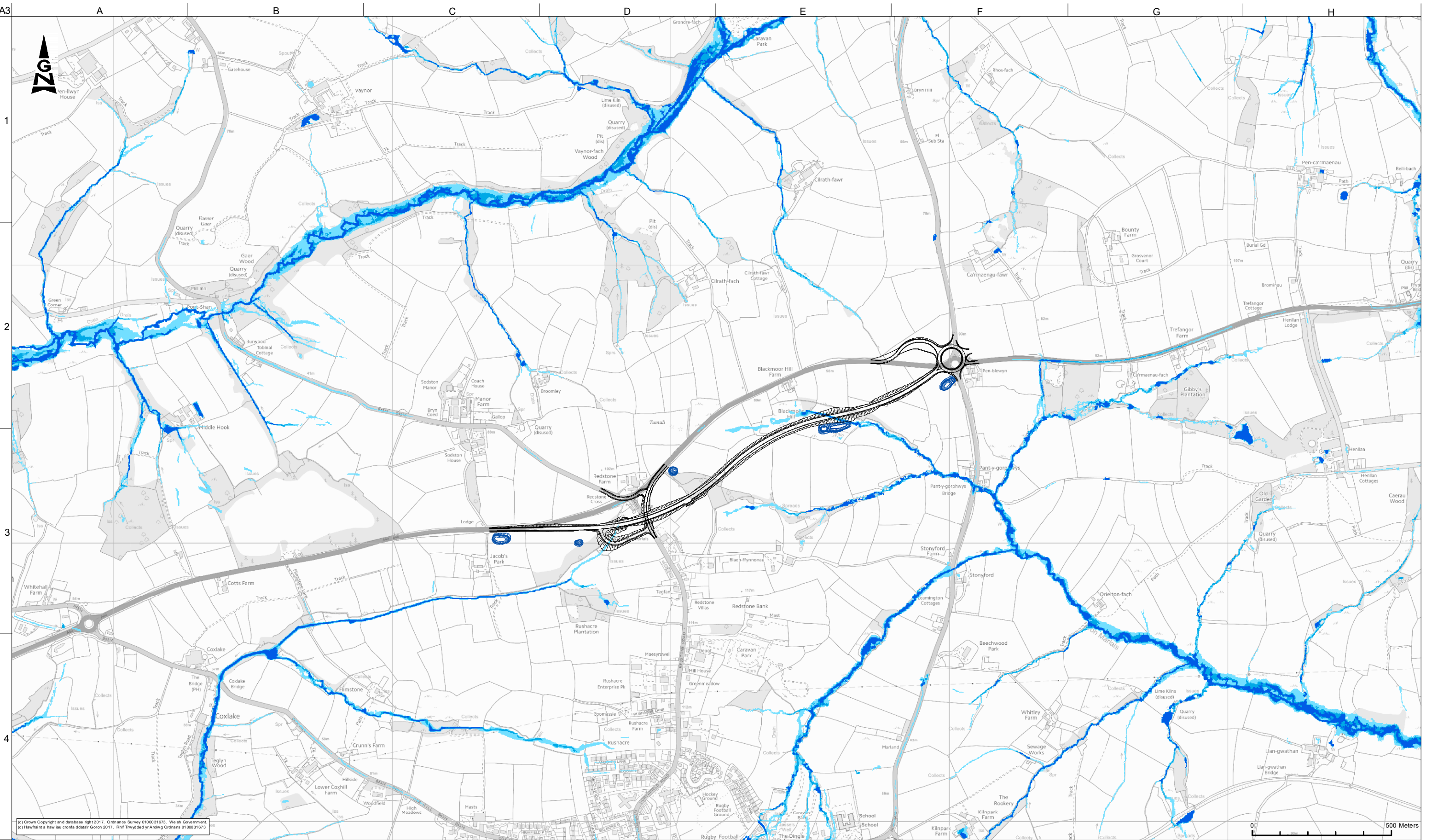
Suitability
S4 | FIT SUITABLE FOR STAGE APPROVAL

Scale at A3
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Rev	By	Chkd	Appd	Auth
P01	AC	MJ	RC	GD
Date	22/06/20	22/06/20	22/06/20	22/06/20

Name
A40PRC - ARP - EWE - SWI - DR - C - 0006

Project	Originator	Volume	Location	Type	Role	Number
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LEGEND

- PROPOSED ALIGNMENT
- PROPOSED ATTENUATION POND
- HIGH RISK
- MEDIUM RISK
- LOW RISK


SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION




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Construction	None
Maintenance / Cleaning	None
Use	None
Decommissioning / Demolition	None

P01	22/06/20	FIRST ISSUE	AC	MJ	RC	GD
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Project Title
A40 PENBLEWIN TO REDSTONE CROSS IMPROVEMENTS

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Drawing Title
**FIGURE 7.4
SURFACE WATER FLOOD RISK**

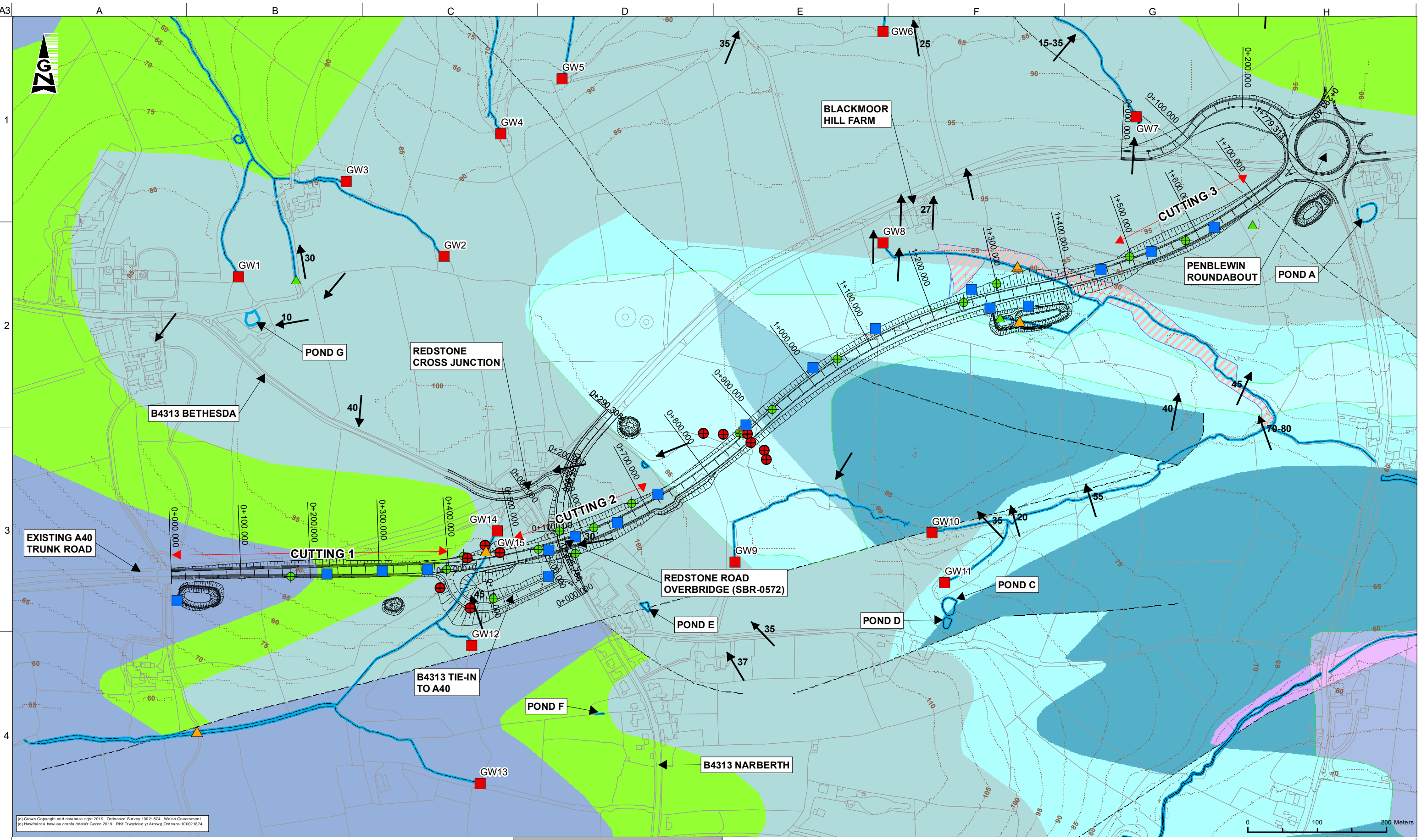
Suitability
S4 | SUITABLE FOR STAGE APPROVAL

Scale at A3
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P01	AC	MJ	RC	GD
Date	22/06/20	22/06/20	22/06/20	22/06/20

Name
A40PRC - ARP - EWE - SWI - DR - C - 0004

Project	Originator	Volume	Location	Type	Role	Number
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LEGEND

PREFERRED

WATERBODIES

GROUNDWATER DEPENDANT TERRESTRIAL ECOSYSTEMS

GROUNDWATER FEATURE

SURFACE WATER DRAIN

2019 GI (AS BUILT)

BOREHOLE

DYNAMIC SAMPLE

SURFACE WATER SAMPLE

TRIAL PIT

GEOLOGY

GLACIAL TILL

HAVERFORD BEDS (CETHINGS SANDSTONE)

HAVERFORD BEDS (GASWORKS SANDSTONE)

LLANDEILO LIMESTONE FORMATION

MYDRIM SHALES (DICRANOGRAPTUS BEDS FORMATION)

SLADE AND REDHILL

BEDROCK DIP ANGLE AND DIRECTION (INFERRED FROM 1:10,560 1907 MAP)

GEOLOGICAL FAULT

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log)

Construction	None
Maintenance / Cleaning	None
Use	None
Decommissioning / Demolition	None

P01	22/06/20	FIRST ISSUE	AC	MJ	RC	GD
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A40 PENBLEWIN TO REDSTONE CROSS IMPROVEMENTS

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Llywodraeth Cymru
Welsh Government

Delivery Team
ARUP

Drawing Title
FIGURE 7.5 GROUNDWATER FEATURES PLAN

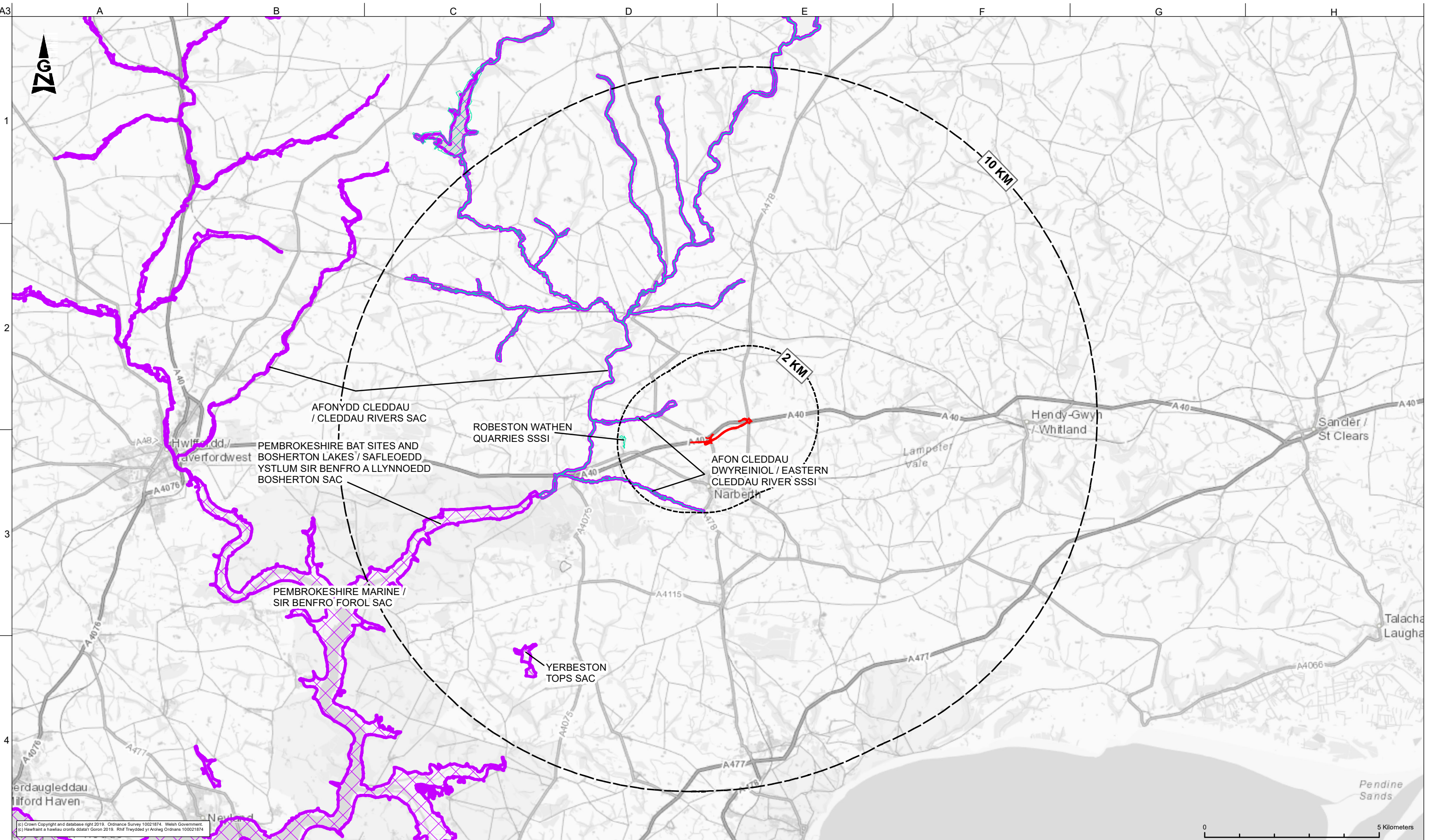
Subsidiary
S4 | SUITABLE FOR STAGE APPROVAL

Scale at A3
1:5,000

Rev	By	Chkd	Appd	Auth
P01	AC	MJ	RC	GD
Date	22/06/20	22/06/20	22/06/20	22/06/20

Name
A40PRC - ARP - EWE - SWI - DR - C - 0007

Project	Originator	Volume	Location	Type	Role	Number
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LEGEND

- PROPOSED ALIGNMENT
- 2 KILOMETRE BUFFER
- 10 KILOMETRE BUFFER
- SITES OF SPECIAL SCIENTIFIC INTEREST (SSSI)
- SPECIAL AREAS OF CONSERVATION (SAC)


SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION




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Construction	None
Maintenance / Cleaning	None
Use	None
Decommissioning / Demolition	None

P01	17/01/20	FIRST ISSUE	AC	CJ	PH	GD
Rev	Date	Description	By	Chkd	Appd	Auth

Project Title
A40 PENBLEWIN TO REDSTONE CROSS IMPROVEMENTS

Client

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Welsh Government

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Drawing Title
**FIGURE 8.1
NATIONAL STATUTORY DESIGNATED SITES WITHIN
2 KILOMETRES AND EUROPEAN SITES WITHIN 10
KILOMETRES**

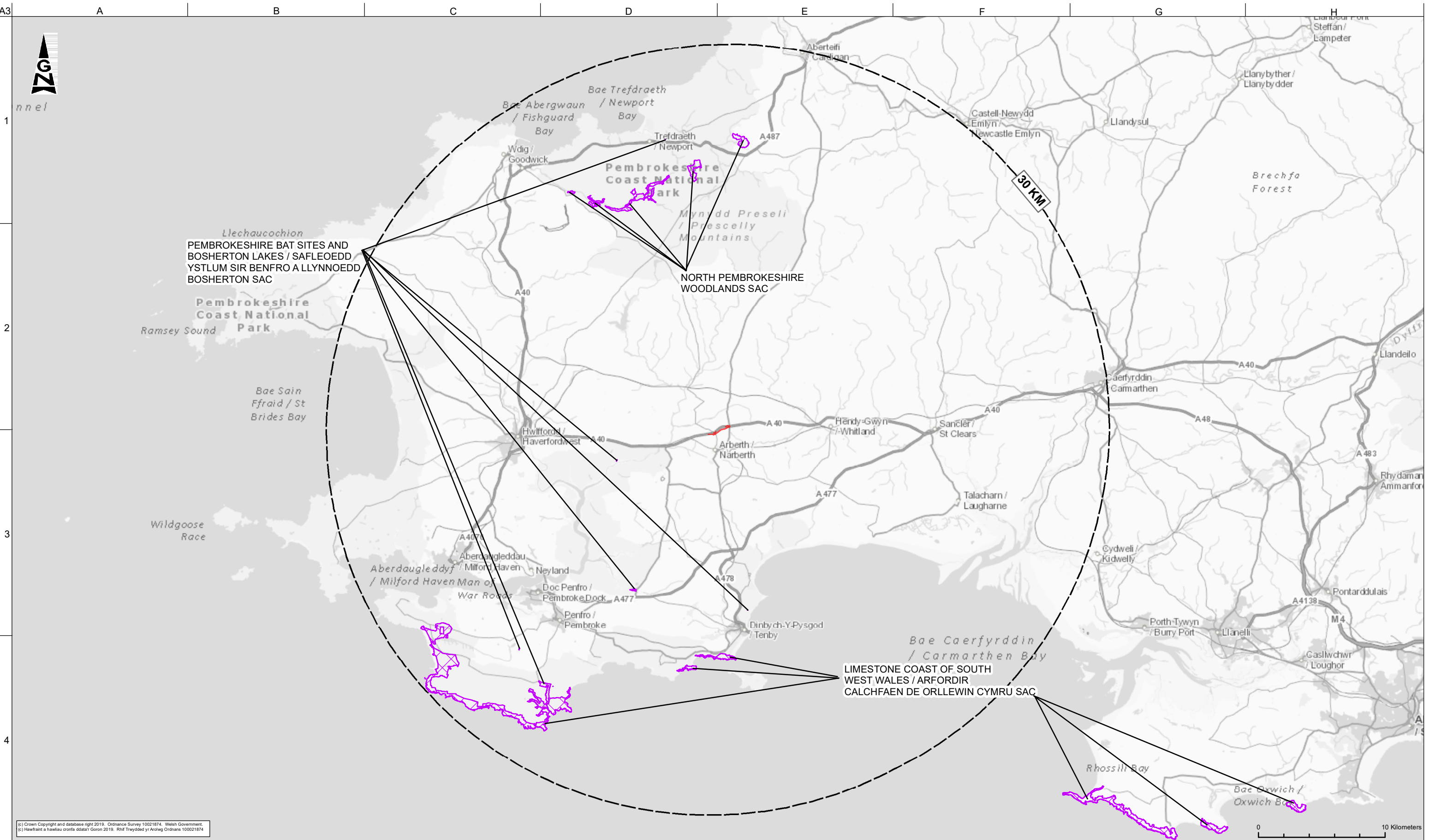
Suitability
S3 | FIT FOR REVIEW AND COMMENT

Scale at A3
1:100,000

Rev	By	Chkd	Appd	Auth
P01	AC	CJ	PH	GD
Date	17/01/20	17/01/20	17/01/20	17/01/20

Name
A40PRC - ARP - EBD - SWI - DR - LE - 0005

Project	Originator	Volume	Location	Type	Role	Number
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LEGEND

- PROPOSED ALIGNMENT
- 30 KILOMETRE BUFFER
- BAT SPECIAL AREAS OF CONSERVATION (SAC)

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log)

Construction	None
Maintenance / Cleaning	None
Use	None
Decommissioning / Demolition	None

Rev	Date	Description	By	Chkd	Appd	Auth
P01	17/01/20	FIRST ISSUE	AC	CJ	PH	GD

Project Title
A40 PENBLEWIN TO REDSTONE CROSS IMPROVEMENTS

Client
Uywodraeth Cymru
Welsh Government

Delivery Team
ARUP

Drawing Title
**FIGURE 8.2
BAT SPECIAL AREAS OF CONSERVATION
WITHIN 30 KILOMETRES**

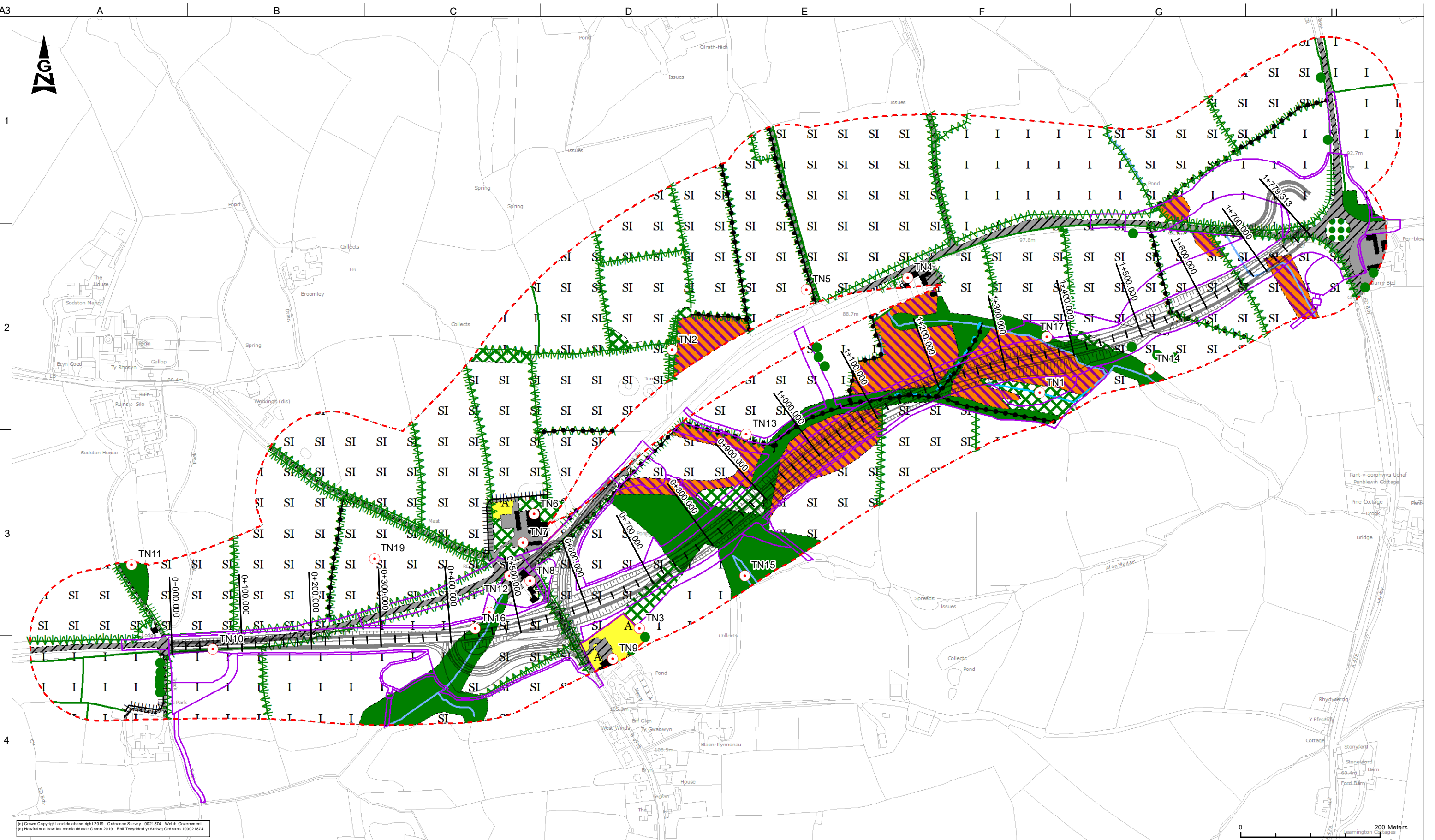
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P01	Date	17/01/20	Date	17/01/20	Date	17/01/20	Date	17/01/20

Name
A40PRC - ARP - EBD - SWI - DR - LE - 0006

Project	Originator	Volume	Location	Type	Role	Number
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LEGEND

— PROPOSED ALIGNMENT

— PROPOSED FENCELINE

100 METRE BUFFER SURVEY AREA

TARGET NOTE

A3.1 SCATTERED BROADLEAVED TREES

A2.2 SCATTERED SCRUB

G1 STANDING WATER

G2 RUNNING WATER

J2.1.1 SPECIES-RICH INTACT HEDGE

J2.1.2 SPECIES-POOR INTACT HEDGE

J2.2.1 SPECIES-RICH DEFUNCT HEDGE

J2.2.2 SPECIES-POOR DEFUNCT HEDGE

J2.3.1 SPECIES-RICH HEDGE WITH TREES

J2.3.2 SPECIES-POOR HEDGE WITH TREES

||||| J2.4 FENCE

J2.5 WALL

J2.6 DRY DITCH

J2.8 EARTH BANK

DESCRIPTION

A1.1.1 - Broadleaved woodland - semi-natural

A2.1 - Scrub - dense/continuous

A3.1 - Broadleaved parkland/scattered trees

B4 - Improved grassland

B5 - Marsh/marshy grassland

B6 - Poor semi-improved grassland

J1.2 - Cultivated/disturbed land - amenity grassland

J3.6 - Buildings

J5 - Gravel/hard standing

J6 - Tarmac surface

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

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Construction	None
Maintenance / Cleaning	None
Use	None
Decommissioning / Demolition	None

P02	09/03/20	CHAINAGE ADDED FOR REFERENCE	AC	CJ	RC	GD
P01	16/01/20	FIRST ISSUE	AC	CJ	PH	GD
Rev.	Date	Description	By	Chkd	Appd	Auth

Project Title
A40 PENBLEWIN TO REDSTONE CROSS IMPROVEMENTS

Client
Llywodraeth Cymru
Welsh Government

Delivery Team
ARUP

Drawing Title
**FIGURE 8.3
EXTENDED PHASE 1 HABITAT SURVEY RESULTS**

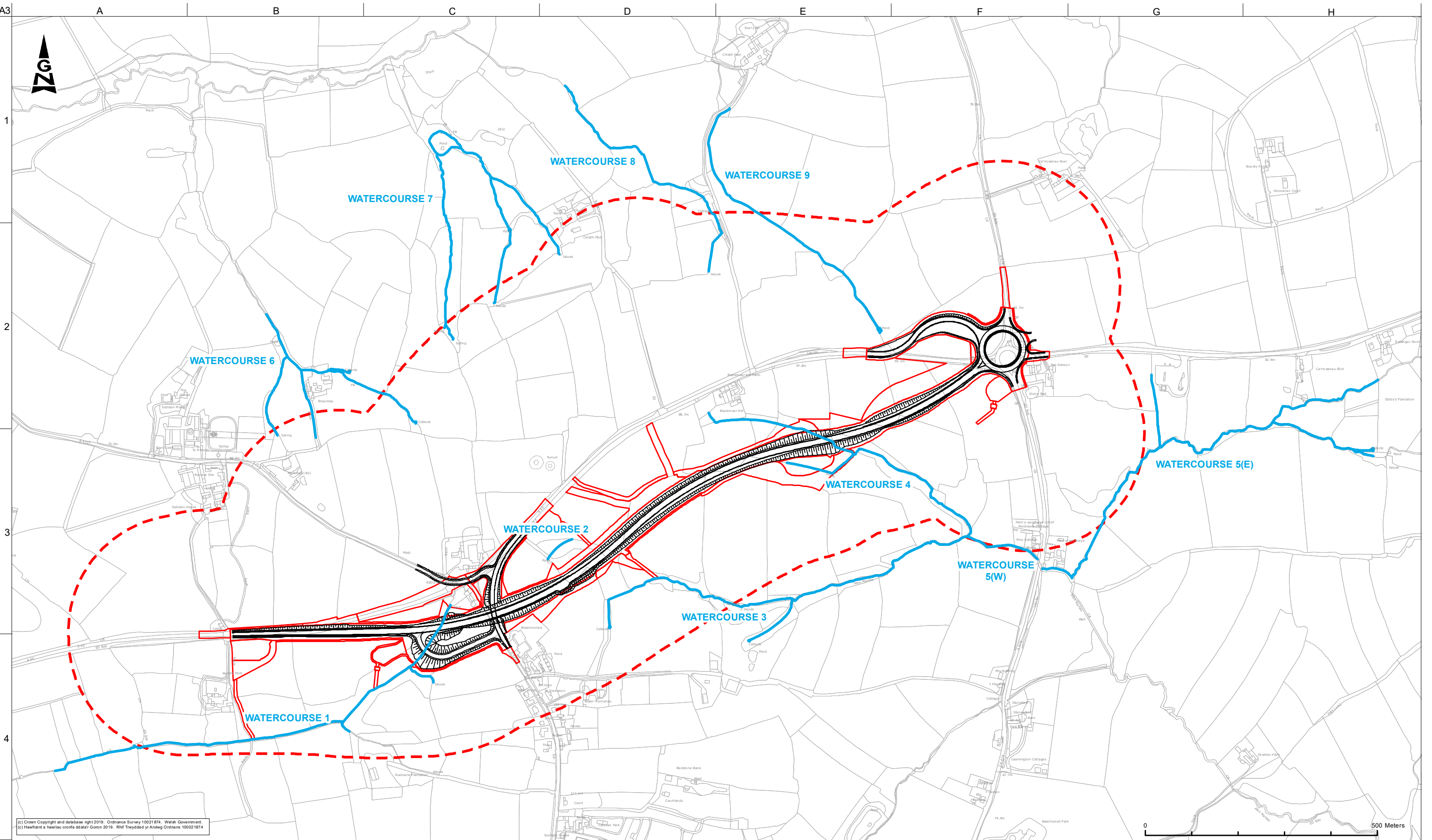
Scale at A3
1:5,000

Subsidiary
S3 | FIT FOR REVIEW AND COMMENT

Rev	By	Chkd	Appd	Auth
P02	AC	CJ	RC	GD
Date	09/03/20	09/03/20	09/03/20	09/03/20

Name
A40PRC - ARP - EBD - SWI - DR - LE - 0021

Project	Originator	Volume	Location	Type	Role	Number
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LEGEND

- PROPOSED ALIGNMENT
- PROPOSED FENCELINE
- - - 250 METRE BUFFER SURVEY AREA
- WATERCOURSES SURVEYED


SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION




In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log)

Construction	None
Maintenance / Cleaning	None
Use	None
Decommissioning / Demolition	None

Rev	Date	Description	By	Chkd	Appd	Auth
P01	17/01/20	FIRST ISSUE	AC	CJ	PH	GD

Project Title
A40 PENBLEWIN TO REDSTONE CROSS IMPROVEMENTS

Client

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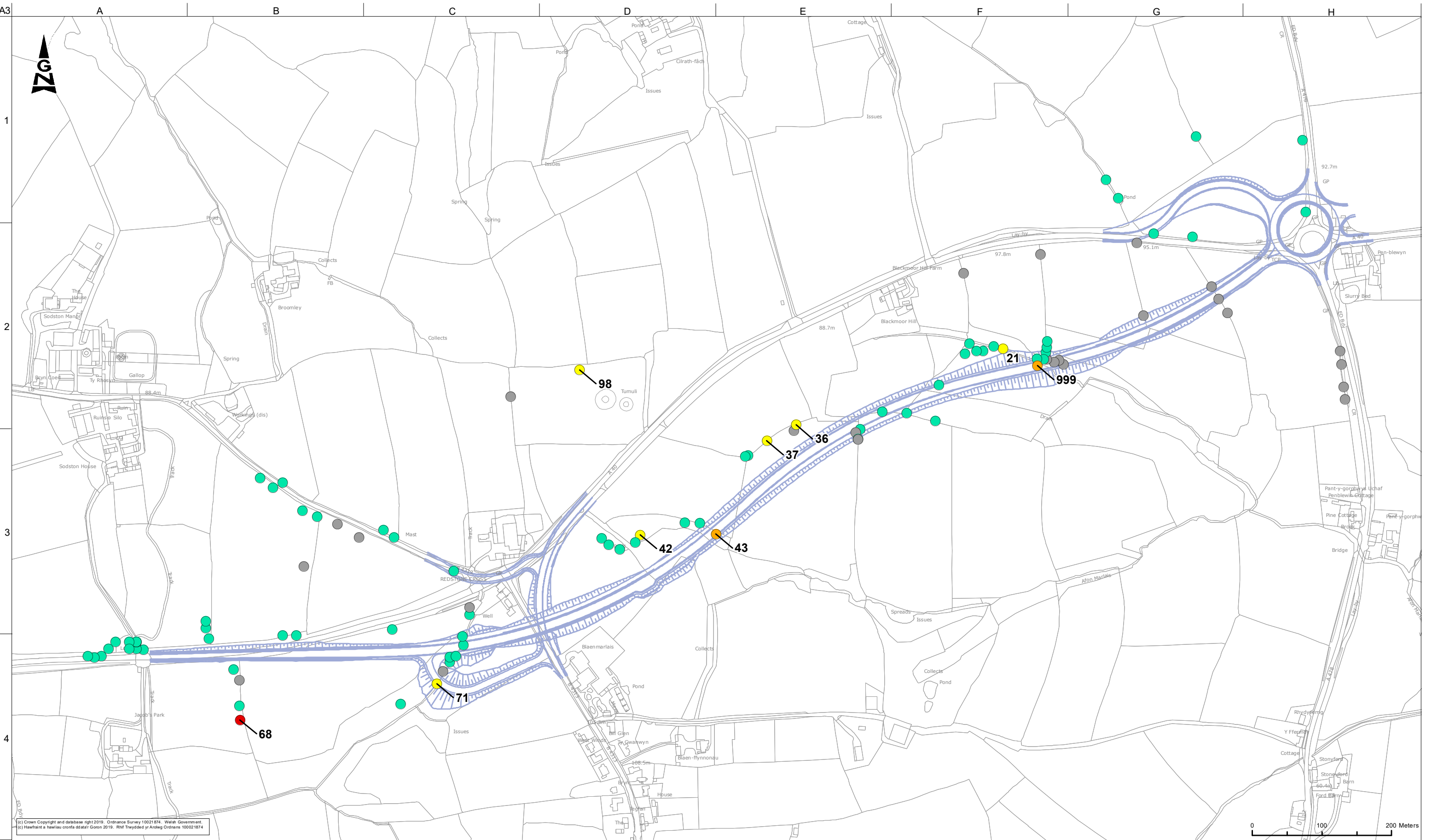
Drawing Title
**FIGURE 8.9
RIPARIAN MAMMAL SURVEY LOCATIONS**

Scale at A3
1:7,500

Rev	By	Date	Chkd	Date	Appd	Date	Auth	Date
P01	AC	17/01/20	CJ	17/01/20	PH	17/01/20	GD	17/01/20

Name
A40PRC - ARP - EBD - SWI - DR - LE - 0016

Project	Originator	Volume	Location	Type	Role	Number
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LEGEND

BAT ROOST POTENTIAL - TREES

- CONFIRMED ROOST
- HIGH
- MODERATE
- LOW
- NEGLEGIBLE

PROPOSED ALIGNMENT

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log)

Construction	None
Maintenance / Cleaning	None
Use	None
Decommissioning / Demolition	None

P01	04/02/20	FIRST ISSUE	AC	CJ	RC	GD
Rev.	Date	Description	By	Chkd	Appd	Auth

Project Title
A40 PENBLEWIN TO REDSTONE CROSS IMPROVEMENTS

Client
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Welsh Government

Delivery Team
ARUP

Drawing Title
FIGURE 8.12 SUMMARY OF BAT TREE ROOST RESULTS FOLLOWING GROUND LEVEL TREE ASSESSMENTS AND AERIAL INSPECTIONS

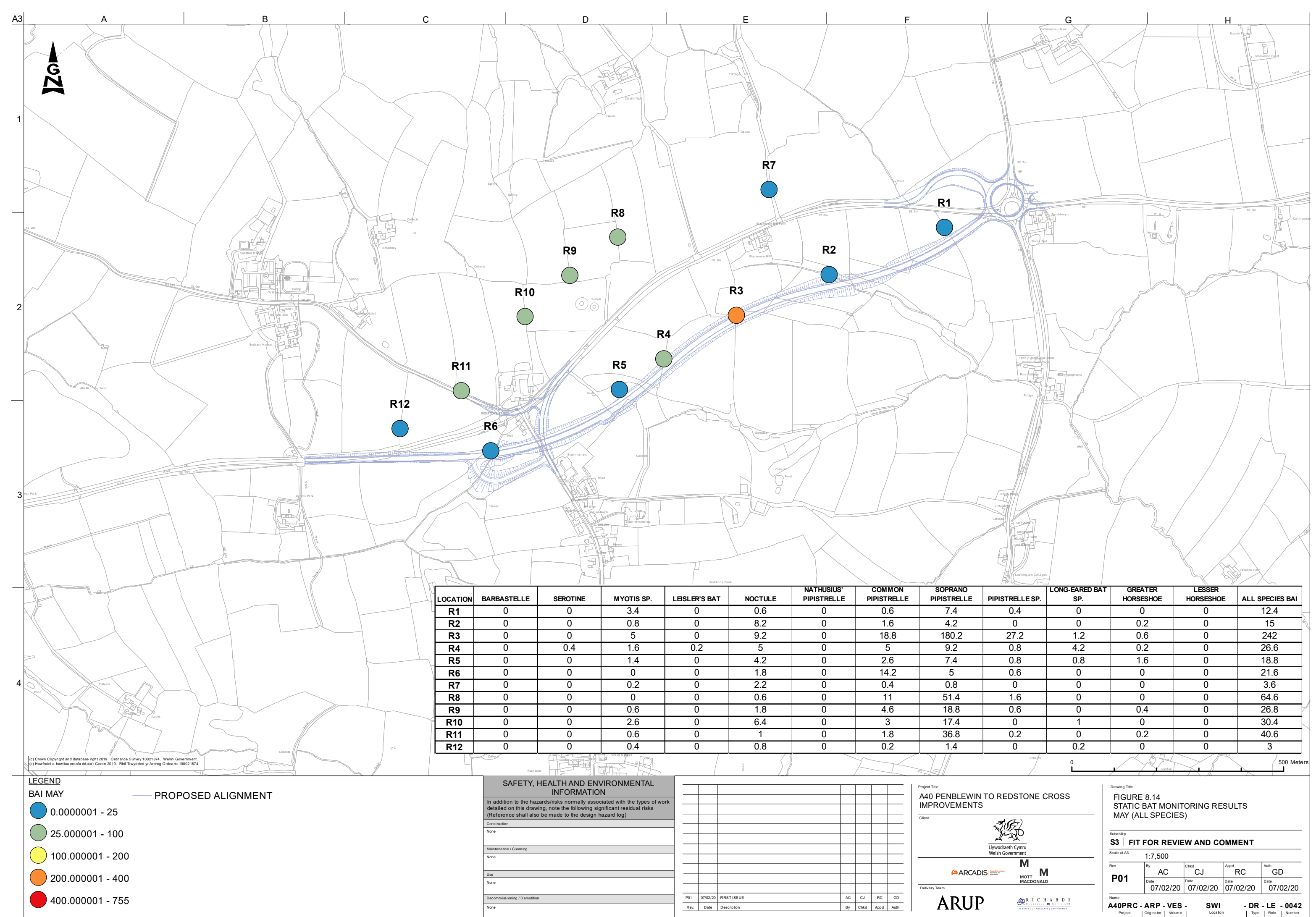
Suitability
S3 | FIT FOR REVIEW AND COMMENT

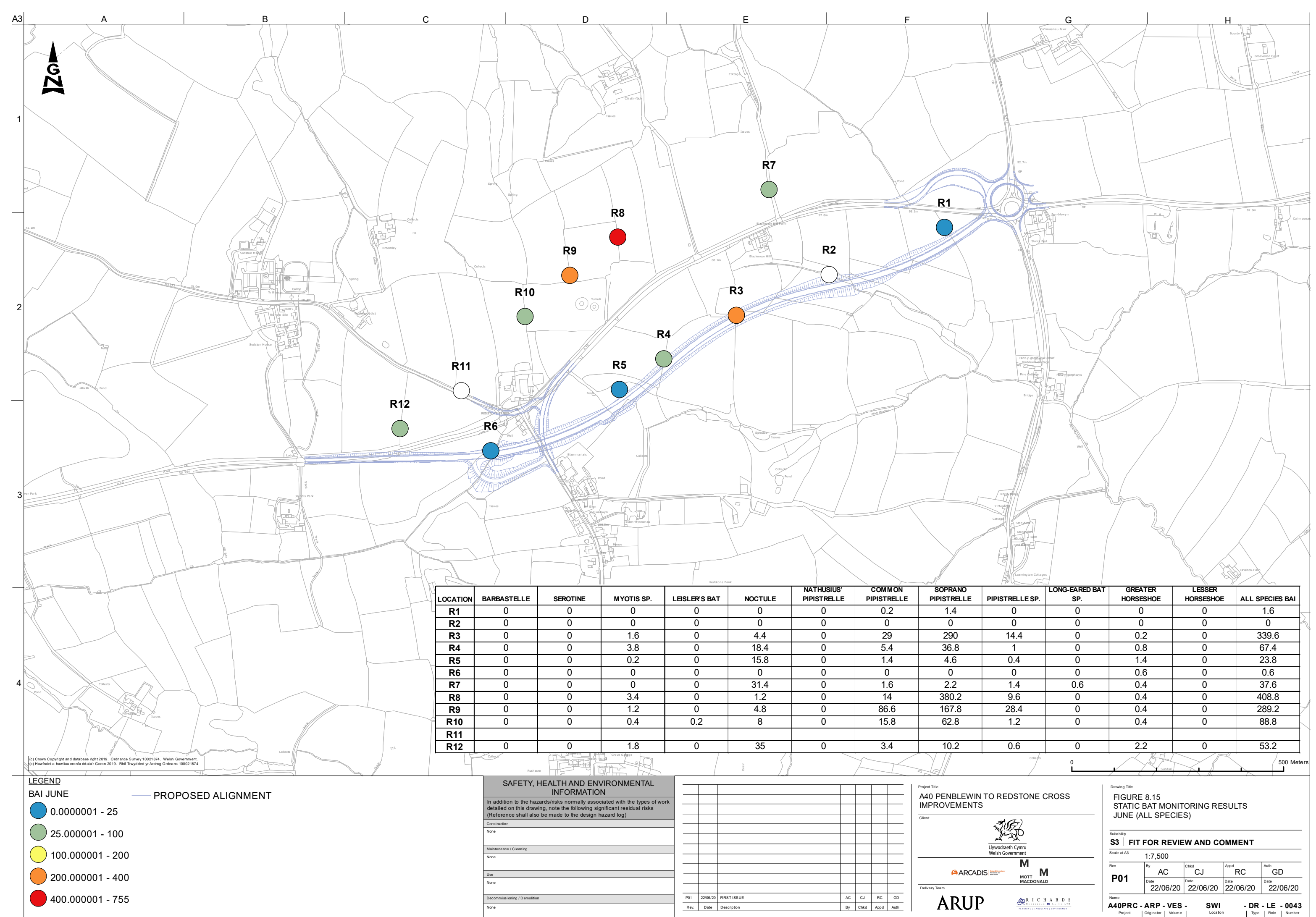
Scale at A3
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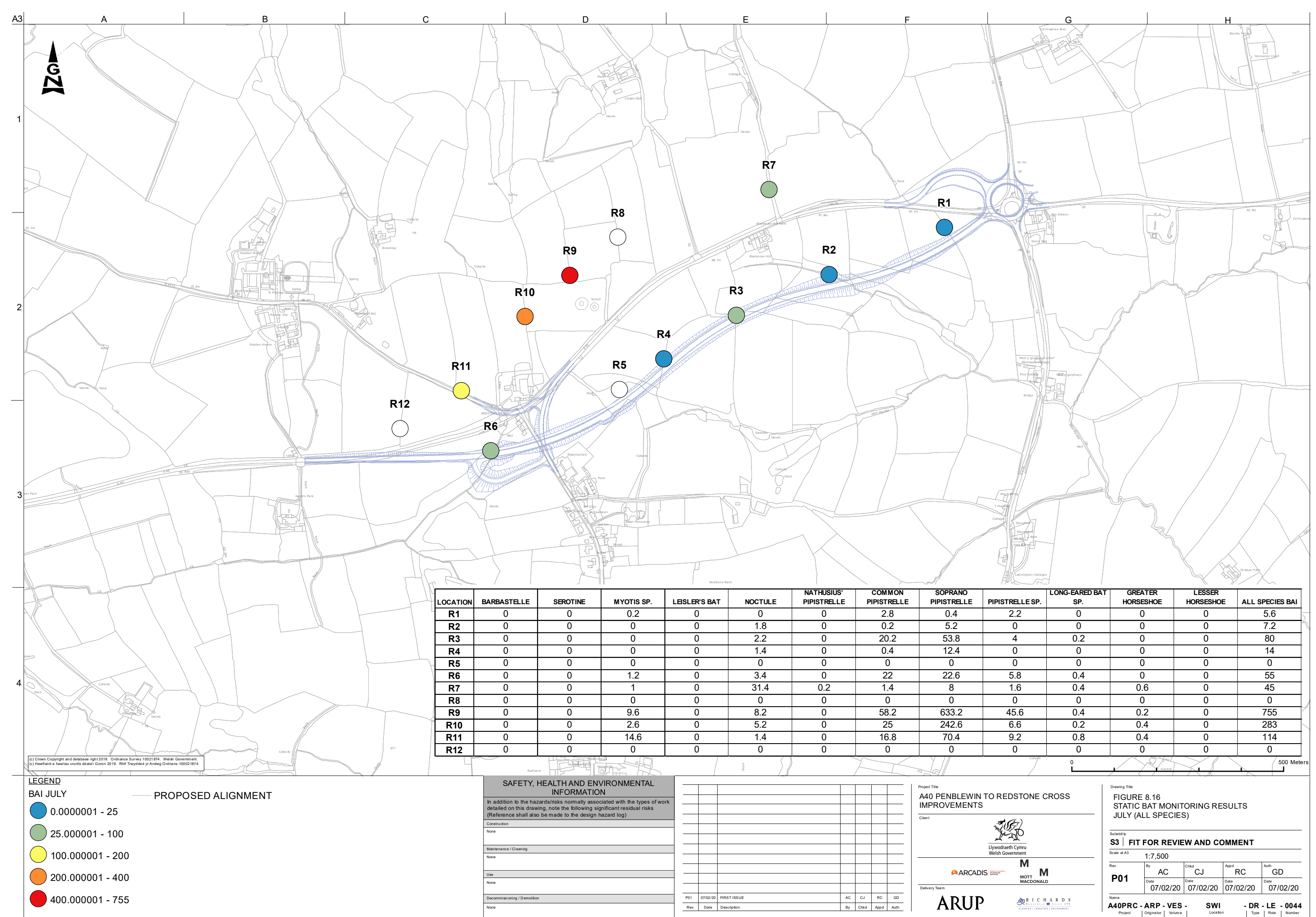
Rev	By	Chkd	Appd	Auth
P01	AC	CJ	RC	GD
Date	04/02/20	04/02/20	04/02/20	04/02/20

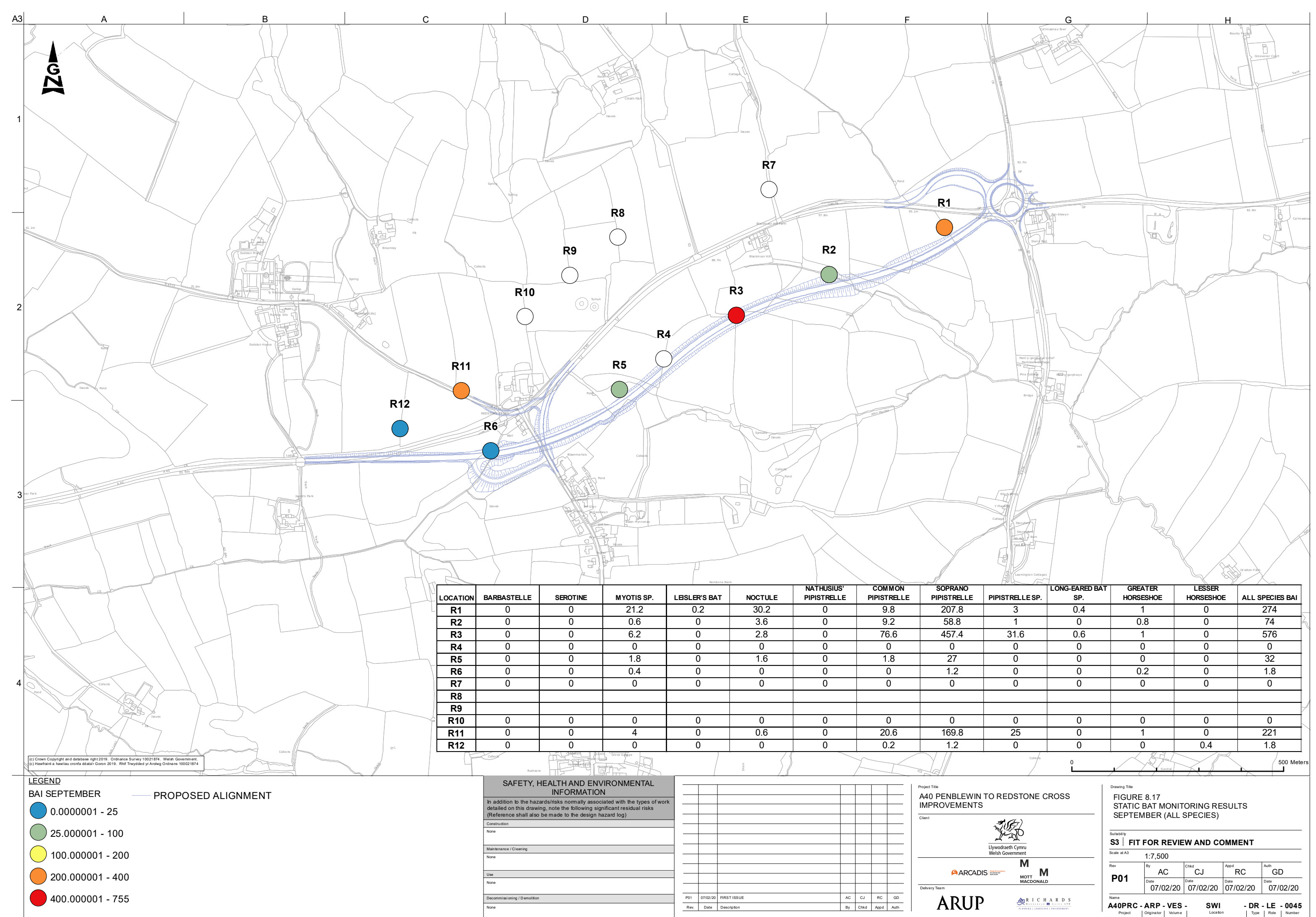
Name
A40PRC - ARP - VES - SWI - DR - LE - 0040

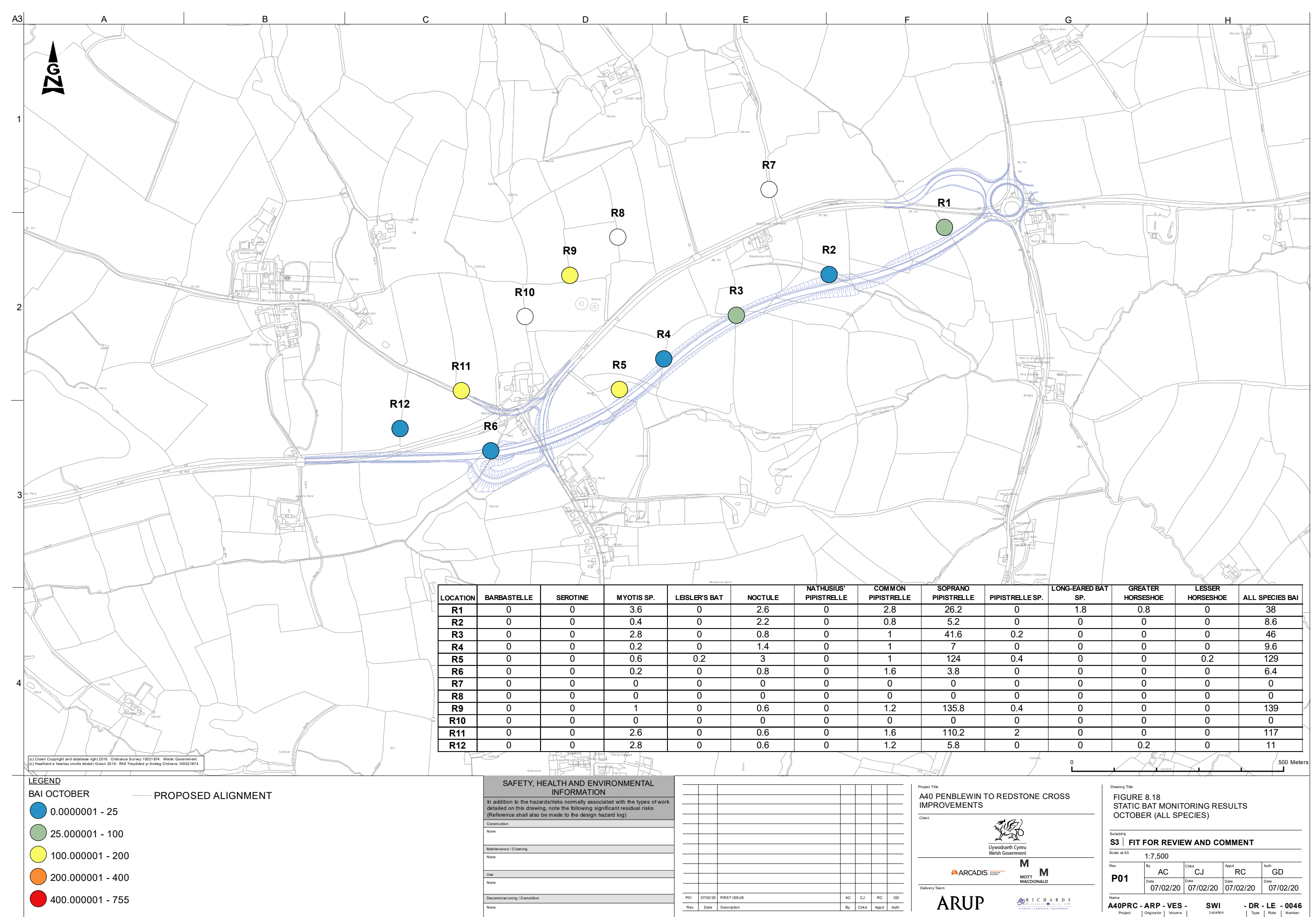
Project	Originator	Volume	Location	Type	Role	Number
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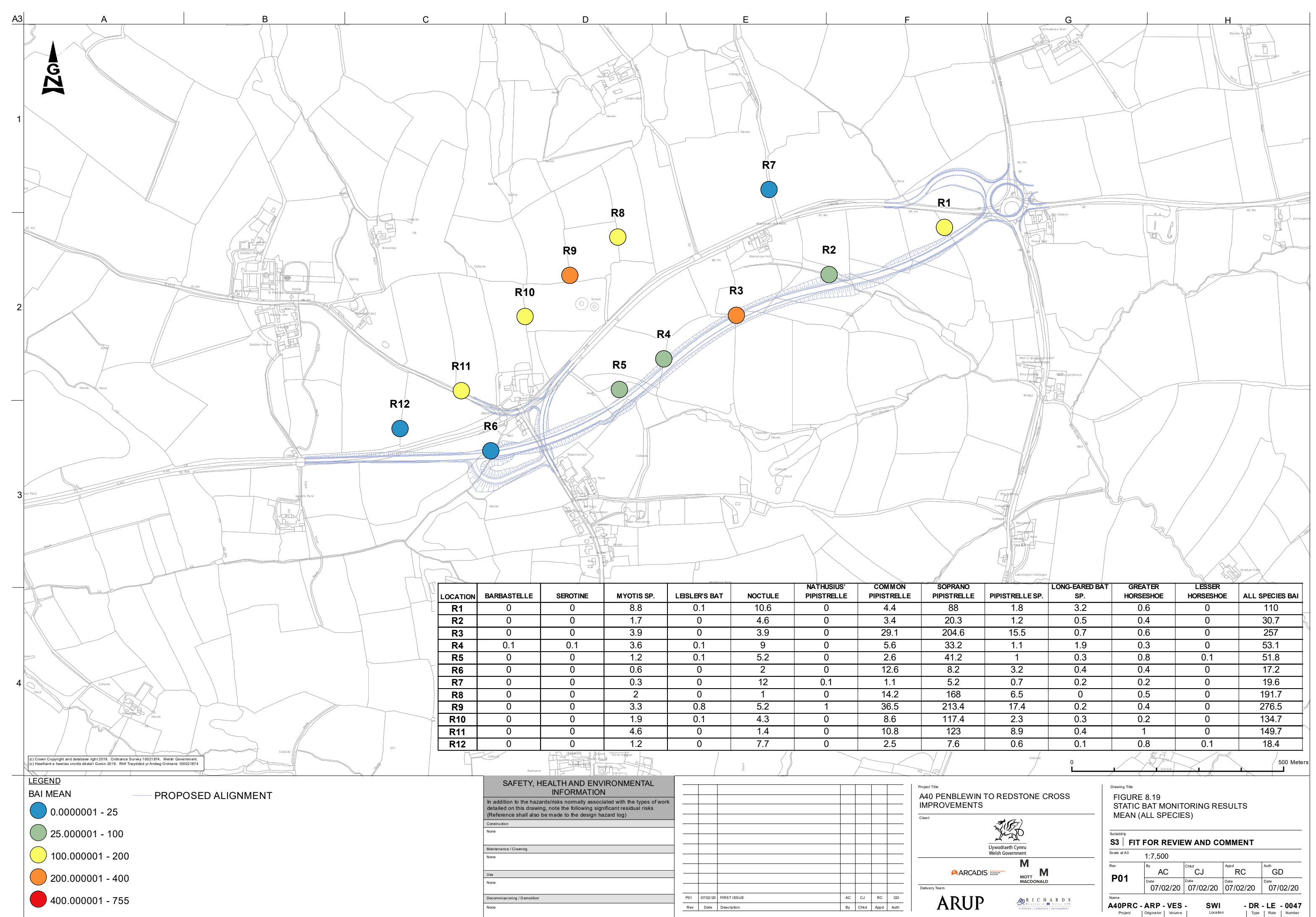


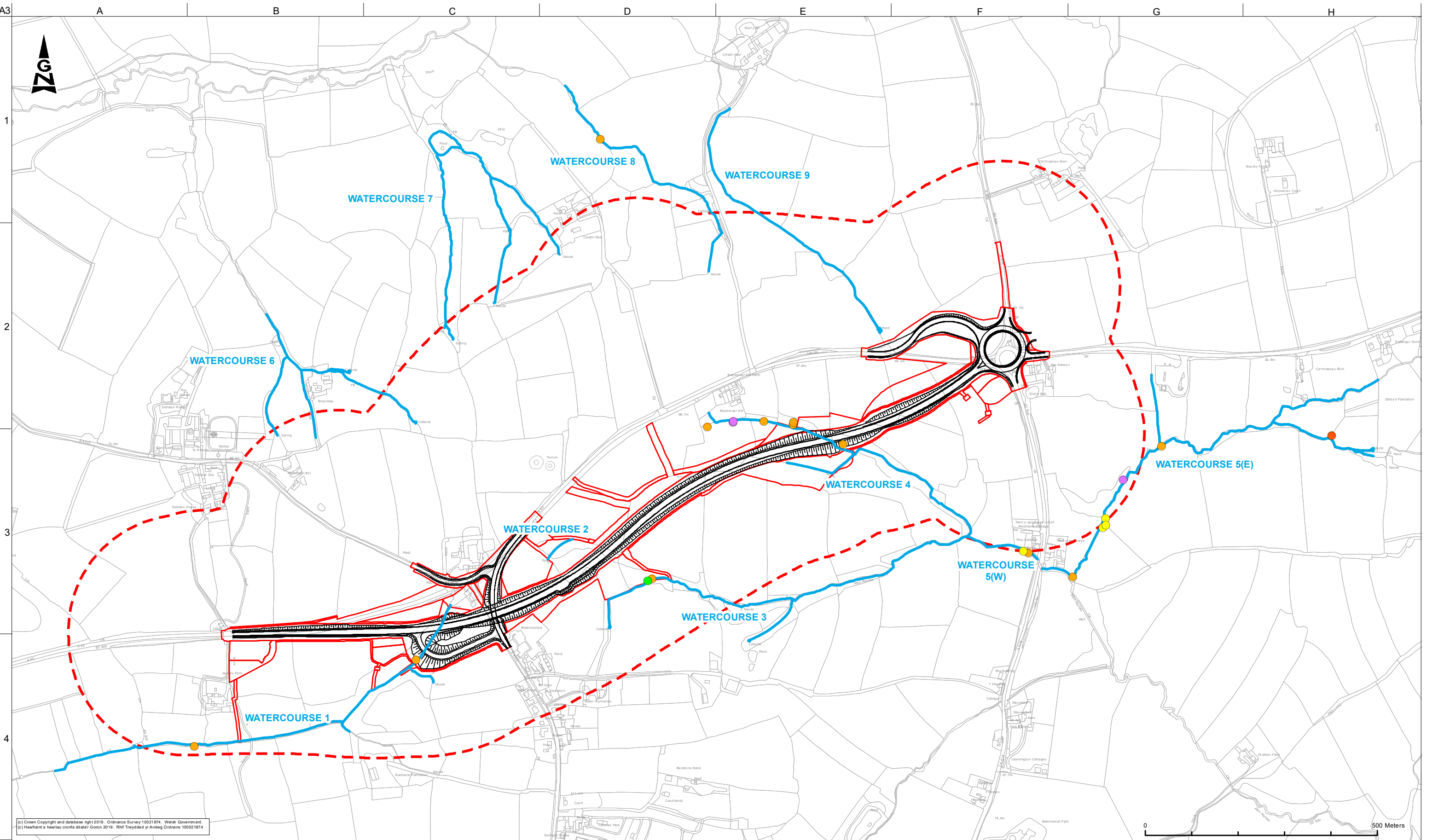












LEGEND

— PROPOSED ALIGNMENT

PROPOSED FENCELINE

250 METRE BUFFER SURVEY AREA

— WATERCOURSES SURVEYED

OTTER SIGNS

FOOTPRINTS

HOLT

LAY-UP

SPRAINT (FRESH)

SPRAINT (OLD)

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log)

Construction	None
Maintenance / Cleaning	None
Use	None
Decommissioning / Demolition	None

P01	03/02/20	FIRST ISSUE	AC	CJ	RC	GD
Rev	Date	Description	By	Chkd	Appd	Auth

Project Title
A40 PENBLEWIN TO REDSTONE CROSS IMPROVEMENTS

Client
Llywodraeth Cymru
Welsh Government

Delivery Team
ARUP

Drawing Title
**FIGURE 8.21
RIPARIAN MAMMAL SURVEY RESULTS**

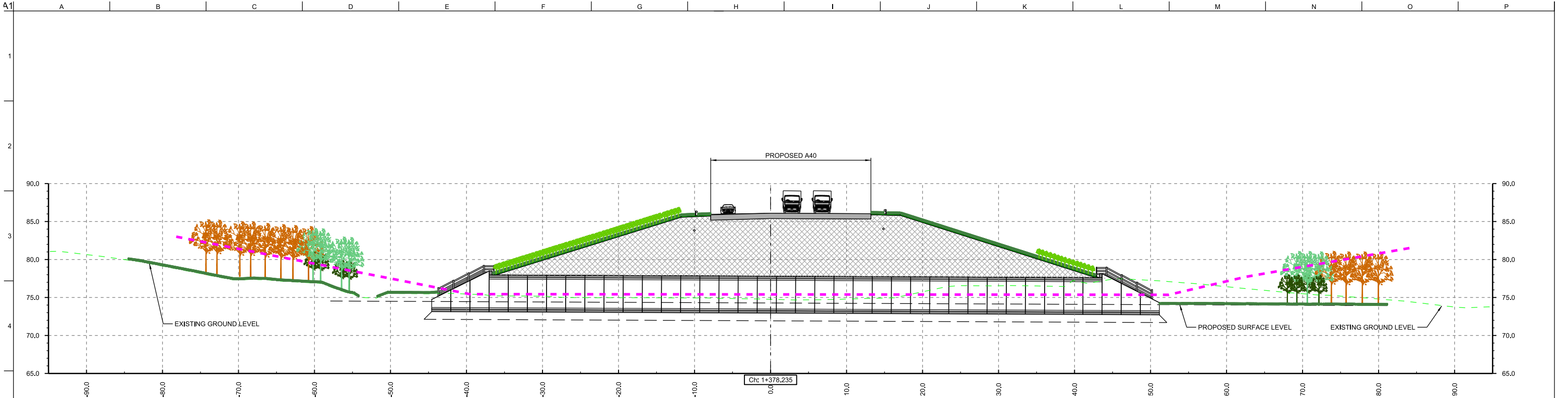
Scale at A3
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Rev	By	Date	Chkd	Date	Appd	Date	Auth	Date
P01	AC	03/02/20	CJ	03/02/20	RC	03/02/20	GD	03/02/20

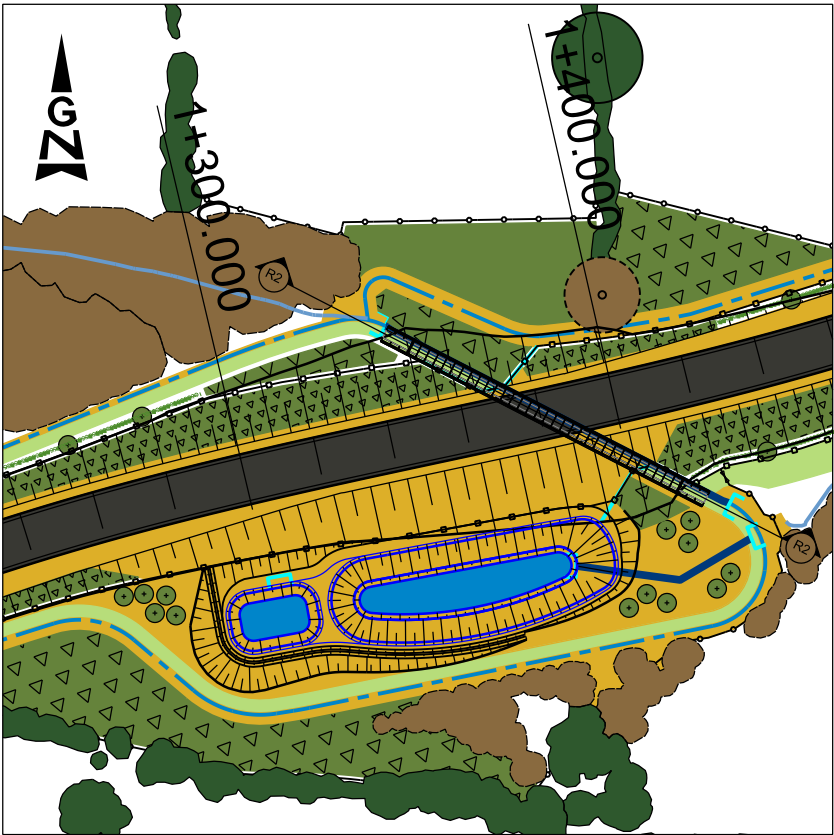
Name
A40PRC - ARP - EBD - SWI - DR - LE - 0017

Project	Originator	Volume	Location	Type	Role	Number
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FIGURE 8.22 (BADGER SURVEY RESULTS SUMMARY) IS CONFIDENTIAL AND IS THEREFORE NOT INCLUDED WITHIN THIS VERSION OF THE ENVIRONMENTAL STATEMENT.



BAT FLIGHT LINE ROUTE R2
SCALE 1:250



ENVIRONMENTAL MASTERPLAN
SCALE 1:1000

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- LEGEND:**
- HEDGEROW - NTS
 - LOW SHRUBBERY/WHIPS
 - TREE PLANTING AT 1 YEAR POST-OPENING
 - TREE PLANTING AT 15 YEARS POST-OPENING
 - EXISTING TREES TO BE RETAINED
 - BAT FLIGHT PATH

- GENERAL NOTES:**
- REFER TO ENVIRONMENTAL MASTERPLAN FOR FURTHER DETAILS
 - REFER TO ENVIRONMENTAL STATEMENT CHAPTER 8: ECOLOGY

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION							
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log).							
Construction							
None							
Maintenance / Cleaning							
None							
Use							
None							
Decommissioning / Demolition							
None							
Rev	Date	Description	By	Chkd	Appd	Auth	
P01	26/06/20	---	DS	GJ	TE	GD	

Project Title
A40 PENBLEWIN TO REDSTONE CROSS IMPROVEMENTS

Client
Uywodraeth Cymru
Welsh Government

Delivery Team
ARUP
MOTT MACDONALD

Drawing Title
FIGURE 8.24
BAT FLIGHT LINE ROUTE R2

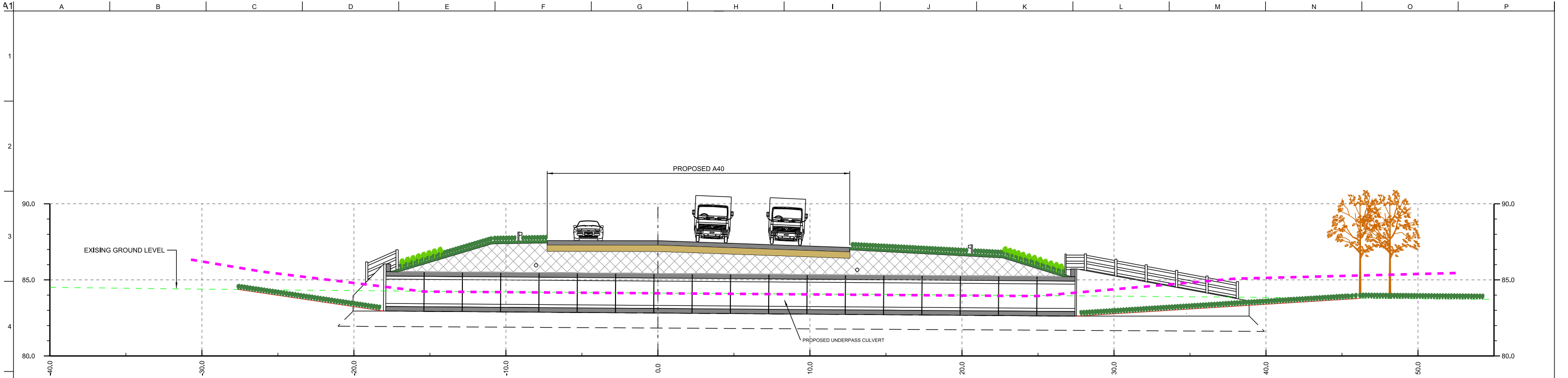
Suitability
S2 | SUITABLE FOR INFORMATION

Scale at A1
As Shown

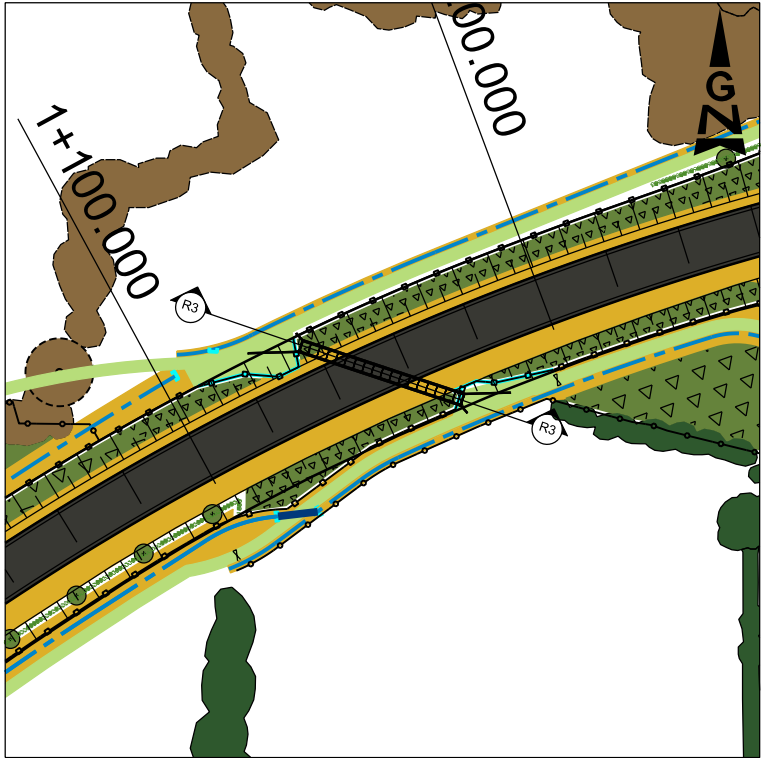
Rev	By	DS	Chkd	GJ	Appd	TE	Auth	GD
P01	Date	25/06/20	Date	25/06/20	Date	26/06/20	Date	26/06/20

Name
A40PRC-ARP-EGN-SWI-DR-D-0002

Project	Originator	Volume	Location	Type	Role	Number
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BAT FLIGHT LINE ROUTE R3
SCALE 1:125



ENVIRONMENTAL MASTERPLAN
SCALE 1:1000

- LEGEND:**
- HEDGEROW - NTS
 - LOW SHRUBBERY/WHIPS
 - TREE PLANTING AT 1 YEAR POST-OPENING
 - TREE PLANTING AT 15 YEARS POST-OPENING
 - EXISTING TREES TO BE RETAINED
 - BAT FLIGHT PATH

- GENERAL NOTES:**
- REFER TO ENVIRONMENTAL MASTERPLAN FOR FURTHER DETAILS
 - REFER TO ENVIRONMENTAL STATEMENT CHAPTER 8: ECOLOGY

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION						
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log).						
Construction						
None						
Maintenance / Cleaning						
None						
Use						
None						
Decommissioning / Demolition						
None						
Rev	Date	Description	By	Chkd	Appd	Auth
P01	26/06/20		DS	GJ	TE	GD

Project Title
A40 PENBLEWIN TO REDSTONE CROSS IMPROVEMENTS



Drawing Title
FIGURE 8.25
BAT FLIGHT LINE ROUTE R3

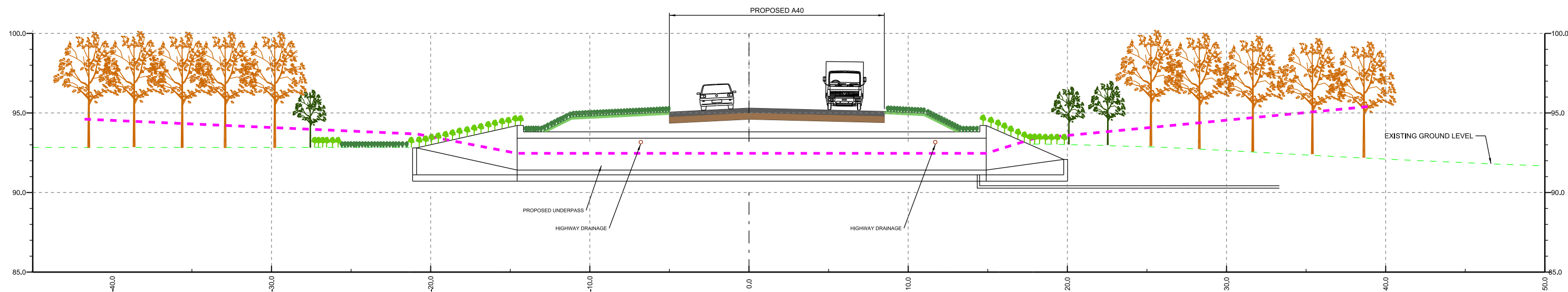
Suitability
S2 | SUITABLE FOR INFORMATION

Scale at A1
As Shown

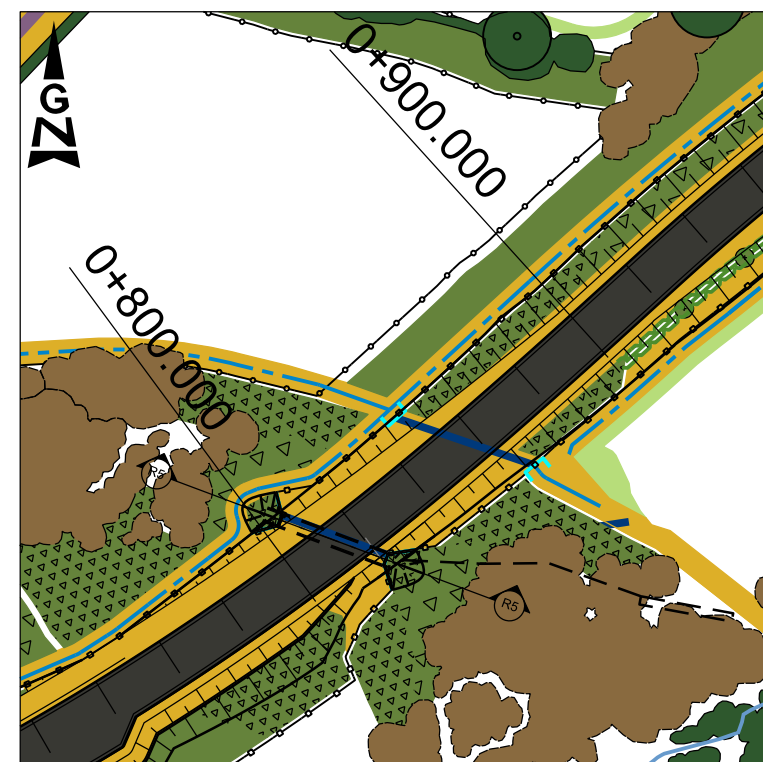
Rev	By	DS	Chkd	GJ	Appd	TE	Auth	GD
P01	Date	25/06/20	Date	25/06/20	Date	26/06/20	Date	26/06/20

Name
A40PRC-ARP-EGN-SWI-DR-D-0003

Project | Originator | Volume | Location | Type | Role | Number









BAT FLIGHT LINE ROUTE R5
SCALE 1:125



ENVIRONMENTAL MASTERPLAN
SCALE 1:1000

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LEGEND:

-
-  HEDGEROW - NTS
 LOW SHRUBBERY/WHIPS
 TREE PLANTING AT 1 YEAR POST-OPENING
 TREE PLANTING AT 15 YEARS POST-OPENING
 EXISTING TREES TO BE RETAINED
 BAT FLIGHT PATH

GENERAL NOTES:

1. REFER TO ENVIRONMENTAL MASTERPLAN FOR FURTHER DETAILS
2. REFER TO ENVIRONMENTAL STATEMENT CHAPTER 8: ECOLOGY

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log).

Construction	None
Maintenance / Cleaning	None
Use	None
Decommissioning / Demolition	None

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P01	26/06/20	--	--	DS	GJ	TE GD
Rev	Date	Description		Bv	Chkd	Annot Audit

Project Title
**A40 PENBLEWIN TO REDSTONE CROSS
IMPROVEMENTS**

Client



Delivery Team



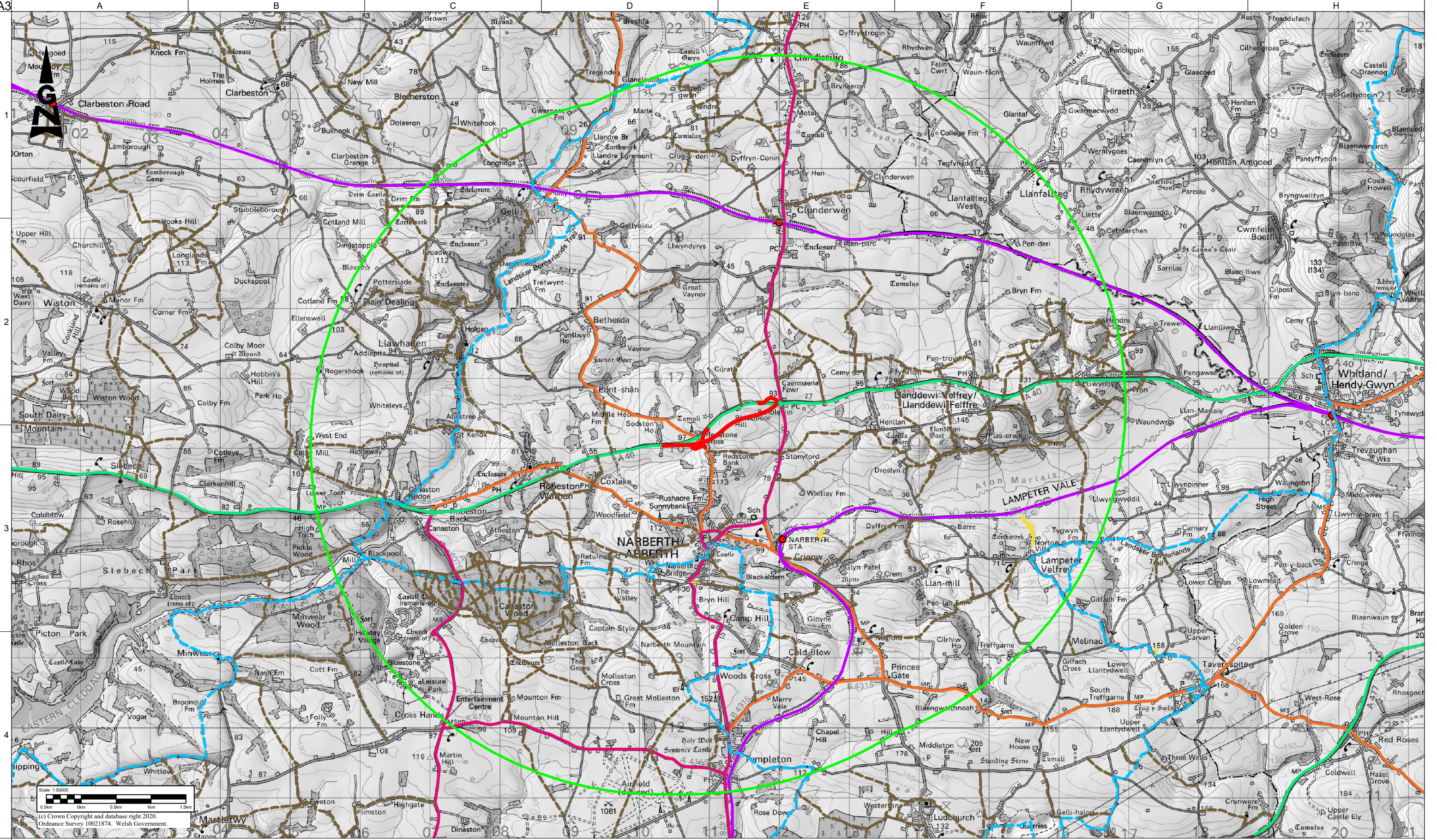
Drawing Title
FLIGHT ROUTE 8.26
BAT FLIGHT LINE ROUTE R5

Suitability
S2 | SUITABLE FOR INFORMATION

Scale at A1 As Shown

Rev	By	Chkd	Appd	Auth
P01	DS	GJ	TE	GD
	Date 25/06/20	Date 25/06/20	Date 26/06/20	Date 26/06/20

Name		A40PRC-ARP-EGN-		SWI		-DR- D -0004	
Project	Originator	Volume	Location	Type	Rate	Number	



Legend

- Scheme centre-line
- 5 km study area boundary

Roads and Recreational Routes/Areas


- A-Road (Trunk Road Network)*¹
- A-Road*¹
- B-Road*¹
- Railway Line*¹
- Long Distance Path*²
- Public Right of Way*³
- Common Land*⁴




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- Ordnance Survey Great Britain
- Long Distance Walkers Association
- Pembrokeshire County Council
- Natural Resources Wales

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P02	25/03/20	REV FINAL			RE	AS	RC	GD	

Project Title
A40 PENBLEWIN TO REDSTONE CROSS IMPROVEMENTS

Client

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Welsh Government

Delivery Team




Drawing Title
FIGURE 9.4 TRANSPORT AND RECREATION ROUTES

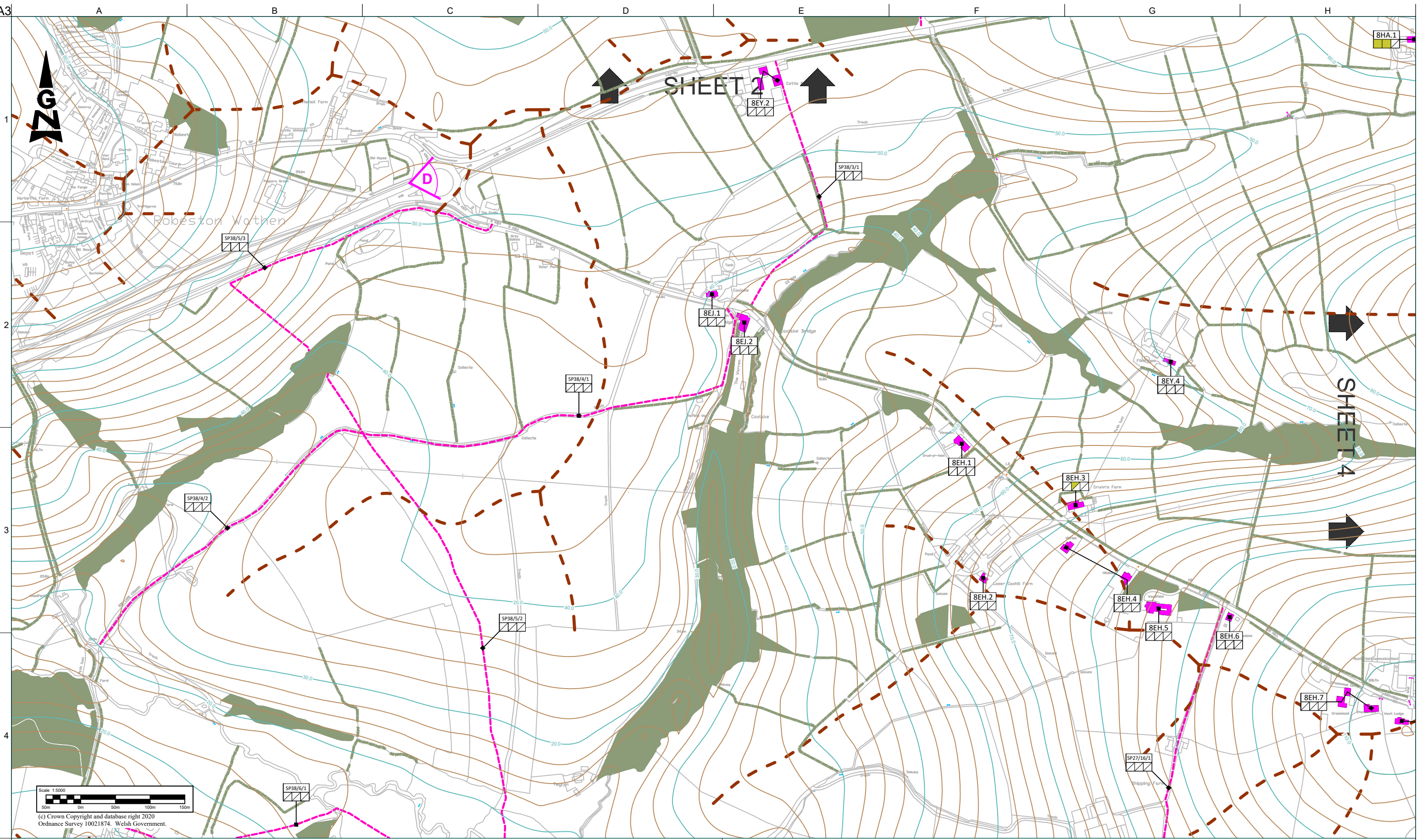
Suitability
S3 | SUITABLE FOR REVIEW & COMMENT

Scale at A1
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Rev	By	RE	Chkd	AS	Appd	RC	Auth	GD
P02	Date	23/03/20	Date	23/03/20	Date	24/03/20	Date	25/03/20

Name
A40PRC-RML-ELS-SWI-DR-L-1304

Project	Originator	Volume	Location	Type	Role	Number



Legend

- Proposed road surface
- Earthworks cutting
- Earthworks embankment
- Sidelong cutting
- Surface contours
- 10 m major interval
- 2.5 m minor interval
- Location of representative viewpoint

Visual barriers

- Ridge lines
- Tree belts and woodland
- Hedgerow / Hedge-bank

Visual Receptors


- Right Of Way - Bridleway
- Right Of Way - Public Footpath
- Receptor Buildings (refer to Visual Effects Schedule)
- Visual effect reference number
- Construction Summer Year 15
- Winter Year 1




Significance of visual effect

- Very large negative
- Large negative
- Moderate negative
- Slight negative
- Neutral
- Slight positive
- Moderate positive
- Large positive
- Very large positive

Rev	Date	Description	By	Chkd	Appd	Auth
P01	10/02/20	FIRST ISSUE	RE	AS	RC	---
P02	25/03/20	REV FINAL	RE	AS	RC	GD

Project Title
A40 PENBLEWIN TO REDSTONE CROSS IMPROVEMENTS

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Welsh Government

Delivery Team




Drawing Title
FIGURE 9.7A
VISUAL EFFECTS
SHEET 1 OF 9

Suitability
S3 | SUITABLE FOR REVIEW & COMMENT

Scale at A1
1:5000

Rev	By	RE	Chkd	AS	Appd	RC	Auth	GD
P02	Date	23/03/20	Date	23/03/20	Date	24/03/20	Date	25/03/20

Name
A40PRC-RML-ELS-

Project	Originator	Volume	SWI Location	-DR- L -0907
				Type Role Number

Do not scale



Legend

- Proposed road surface
- Earthworks cutting
- Earthworks embankment
- Surface contours
- 10 m major interval
- 2.5 m minor interval
- Location of representative viewpoint

Visual barriers

- Ridge lines
- Tree belts and woodland
- Hedgerow / Hedge-bank

Visual Receptors

- Right Of Way - Bridleway
- Right Of Way - Public Footpath
- Receptor Buildings (refer to Visual Effects Schedule)
- Visual effect reference number
- Construction Summer Year 15
- Winter Year 0

Significance of visual effect

- Very large adverse
- Large adverse
- Moderate adverse
- Slight adverse
- Neutral
- Slight benefit
- Moderate benefit
- Large benefit
- Very large benefit

Rev	Date	Description	By	Chkd	Appd	Auth
P01	10/02/20	FIRST ISSUE	RE	AS	RC	---
P02	25/03/20	REV FINAL	RE	AS	RC	GD

Project Title
A40 PENBLEWIN TO REDSTONE CROSS IMPROVEMENTS

Client
Llywodraeth Cymru
Welsh Government

Delivery Team
ARUP RICHARDS

Drawing Title
FIGURE 9.7B
VISUAL EFFECTS
SHEET 2 OF 9

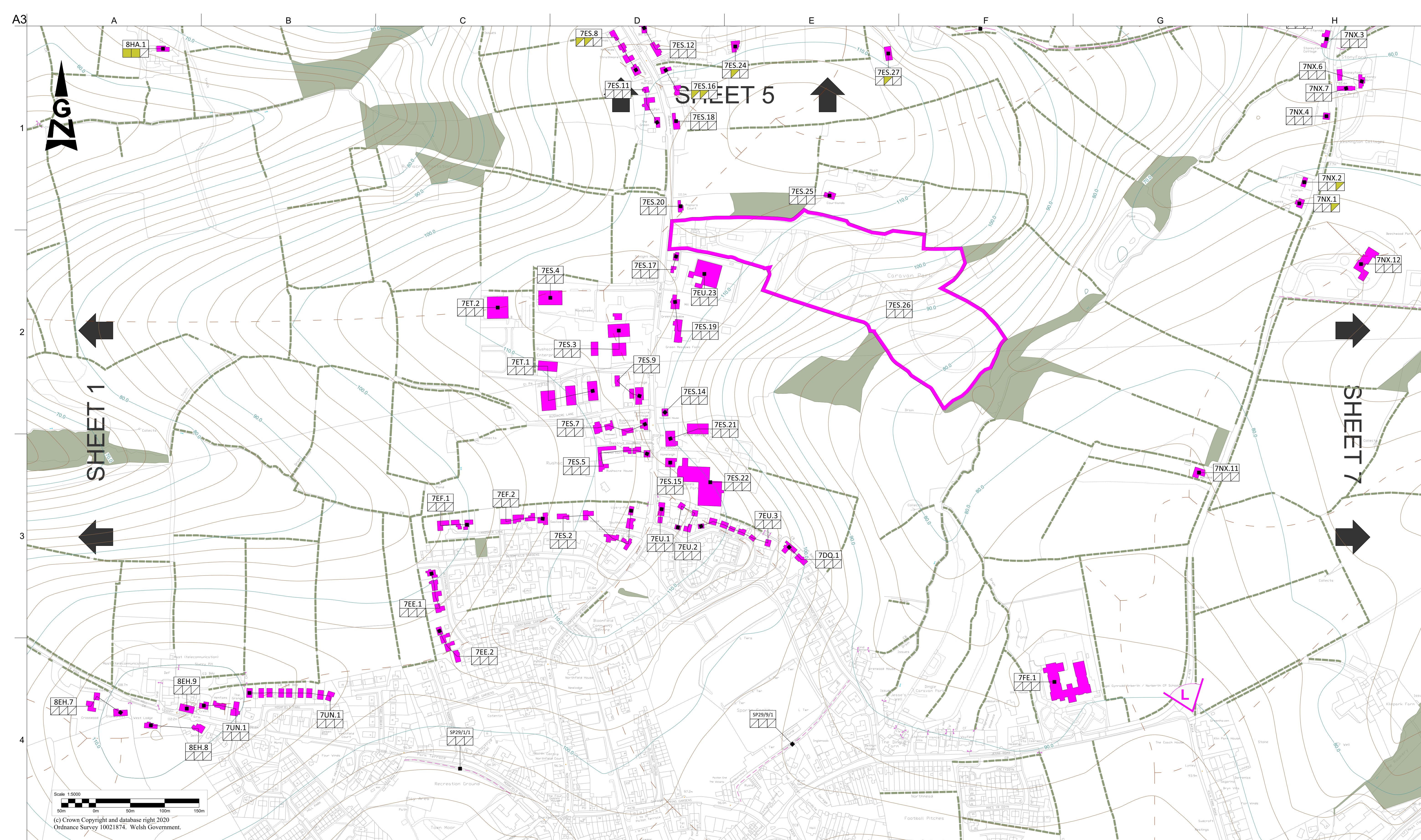
Suitability
S3 | SUITABLE FOR REVIEW & COMMENT

Scale at A1
1:5000





Rev	By	Chkd	Appd	Auth
P02	RE	AS	RC	GD
Date	23/03/20	23/03/20	24/03/20	25/03/20


Name
A40PRC-RML-ELS-SWI-DR-L-0908

Project	Originator	Volume	Location	Type	Role	Number
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Legend


-  Proposed road surface
 Earthworks cutting
 Earthworks embankment
 Sidelong cutting

- Surface contours
 10 m major interval
 2.5 m minor interval
 Location of representative viewpoint

Visual barriers

-   Ridge lines
-  Tree belts and woodland
-  Hedgerow / Hedge-bank

Visual Receptors

- Right Of Way - Bridleway
 Right Of Way - Public Footpath
 Receptor Buildings
 (refer to Visual Effects Schedule)

-
- Visual effect reference number
- Summer Year 15
- Winter Year 1

Significance of visual effect

-
- Very large negative
- Large negative
- Moderate negative
- Slight negative
- Neutral
- Slight positive
- Moderate positive
- Large positive
- Very large positive

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P01	10/02/20	***		RE	AS	RC
P02	25/03/20	REV FINAL		RE	AS	RC
Rev	Date	Description		By	Chkd	Appd

Project Title

A40 PENBLEWIN TO REDSTONE CROSS
IMPROVEMENTS

Client



Llywodraeth Cymru
Welsh Government



Delivery Team



Drawing Title

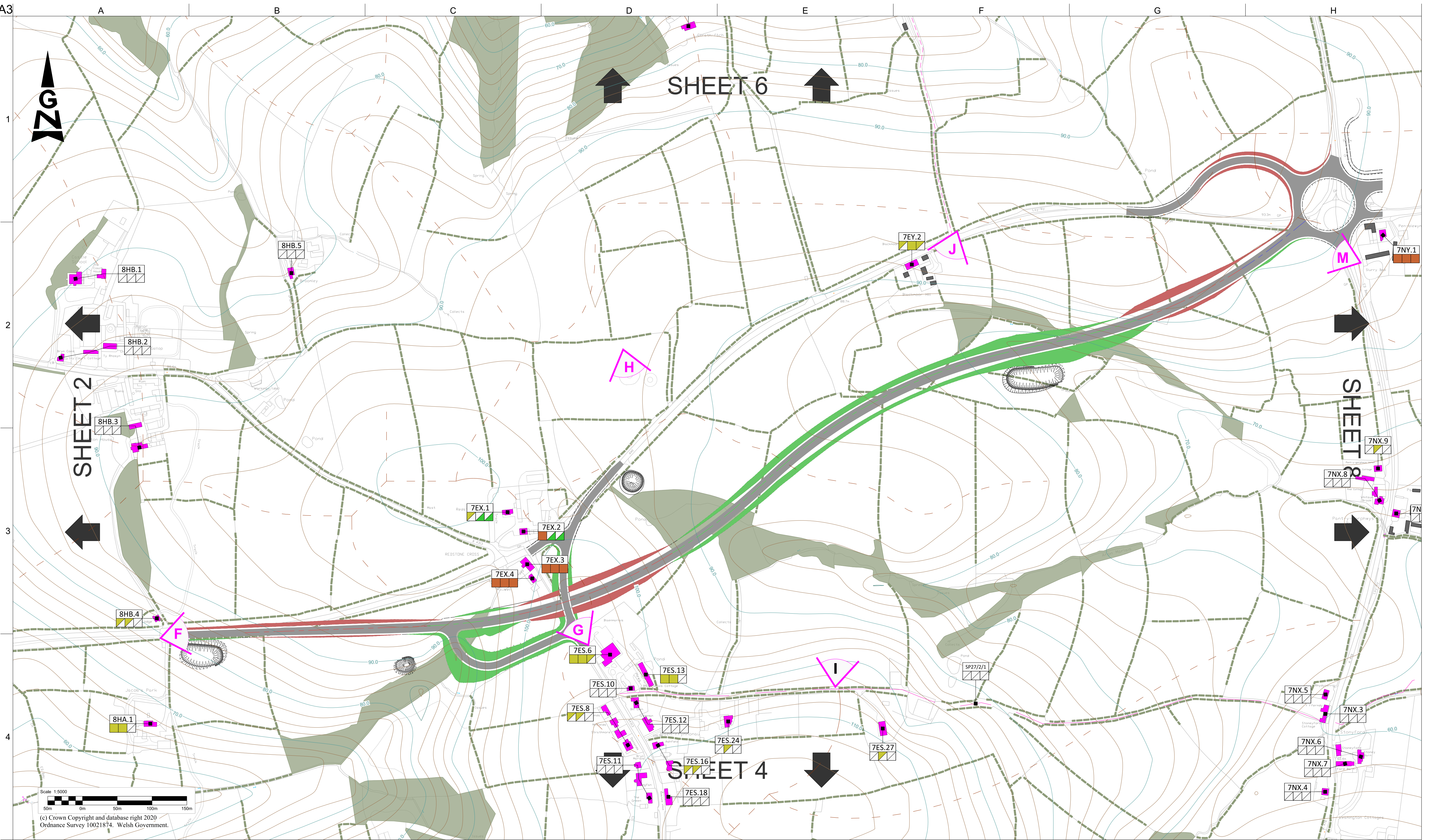
FIGURE 9.7D
VISUAL EFFECTS
SHEET 4 OF 9

Suitability
S3 | SUITABLE FOR REVIEW & COMMENT

Scale at A1 1:5000

Rev	By	Chkd	Appd	Auth
P02	RE	AS	RC	GD
	Date 23/03/20	Date 23/03/20	Date 24/03/20	Date 25/03/20

Name							
A40PRC-RML-ELS-			SWI		-DR- L -0910		
Project	Originator	Volume	Location	Type	Role	Number	



Legend

- Proposed road surface
- Earthworks cutting
- Earthworks embankment
- Sidelong cutting

- Surface contours
- 10 m major interval
- 2.5 m minor interval

Location of representative viewpoint

Visual barriers

- Ridge lines
- Tree belts and woodland
- Hedgerow / Hedge-bank

Visual Receptors

- Right Of Way - Bridleway
- Right Of Way - Public Footpath
- Receptor Buildings (refer to Visual Effects Schedule)

- Visual effect reference number
- Construction Summer Year 15
- Winter Year 1

Significance of visual effect

- Very large negative
- Large negative
- Moderate negative
- Slight negative
- Neutral
- Slight positive
- Moderate positive
- Large positive
- Very large positive

Rev	Date	Description	By	Chkd	Appd	Auth
P01	10/02/20	---	RE	AS	RC	---
P02	25/03/20	REV FINAL	RE	AS	RC	GD

Project Title
A40 PENBLEWIN TO REDSTONE CROSS
IMPROVEMENTS



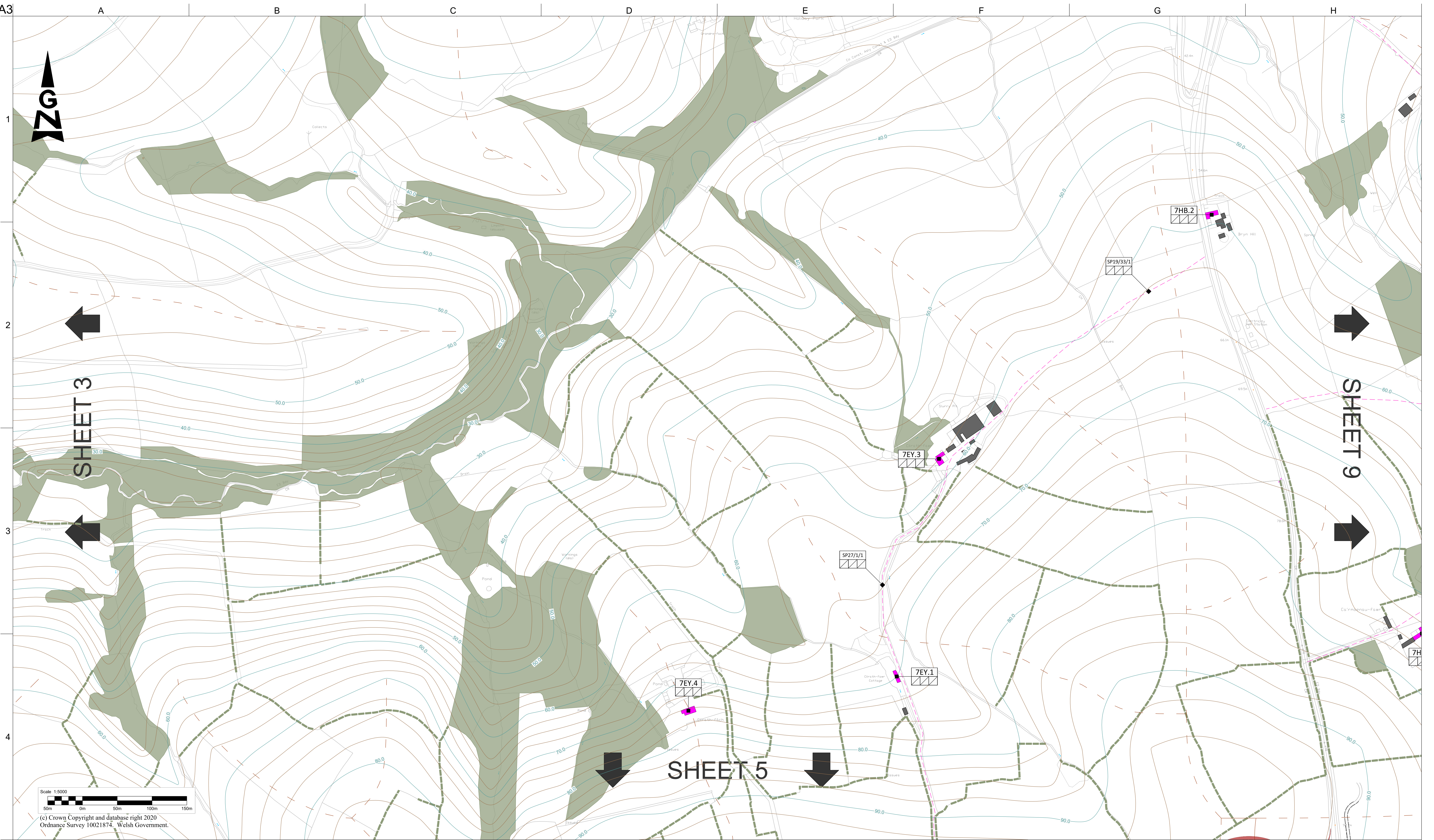
Drawing Title
FIGURE 9.7E
VISUAL EFFECTS
SHEET 5 OF 9

Suitability
S3 | SUITABLE FOR REVIEW & COMMENT

Scale at A1 1:5000

Rev	By	RE	Chkd	AS	Appd	RC	Auth	GD
P02	Date	23/03/20	Date	23/03/20	Date	24/03/20	Date	25/03/20

Name
A40PRC-RML-ELS-SWI-DR-L-0911



Legend

- Proposed road surface
- Earthworks cutting
- Earthworks embankment
- Sidelong cutting

- Surface contours
- 10 m major interval
- 2.5 m minor interval

Location of representative viewpoint

Visual barriers

- Ridge lines
- Tree belts and woodland
- Hedgerow / Hedge-bank

Visual Receptors

- Right Of Way - Bridleway
- Right Of Way - Public Footpath
- Receptor Buildings (refer to Visual Effects Schedule)

- Visual effect reference number
- Construction Summer Year 15
- Winter Year 1

Significance of visual effect

- Very large negative
- Large negative
- Moderate negative
- Slight negative
- Neutral
- Slight positive
- Moderate positive
- Large positive
- Very large positive

Rev	Date	Description	By	Chkd	Appd	Auth
P01	10/02/20	---	RE	AS	RC	---
P02	25/03/20	REV FINAL	RE	AS	RC	GD

Project Title
A40 PENBLEWIN TO REDSTONE CROSS IMPROVEMENTS



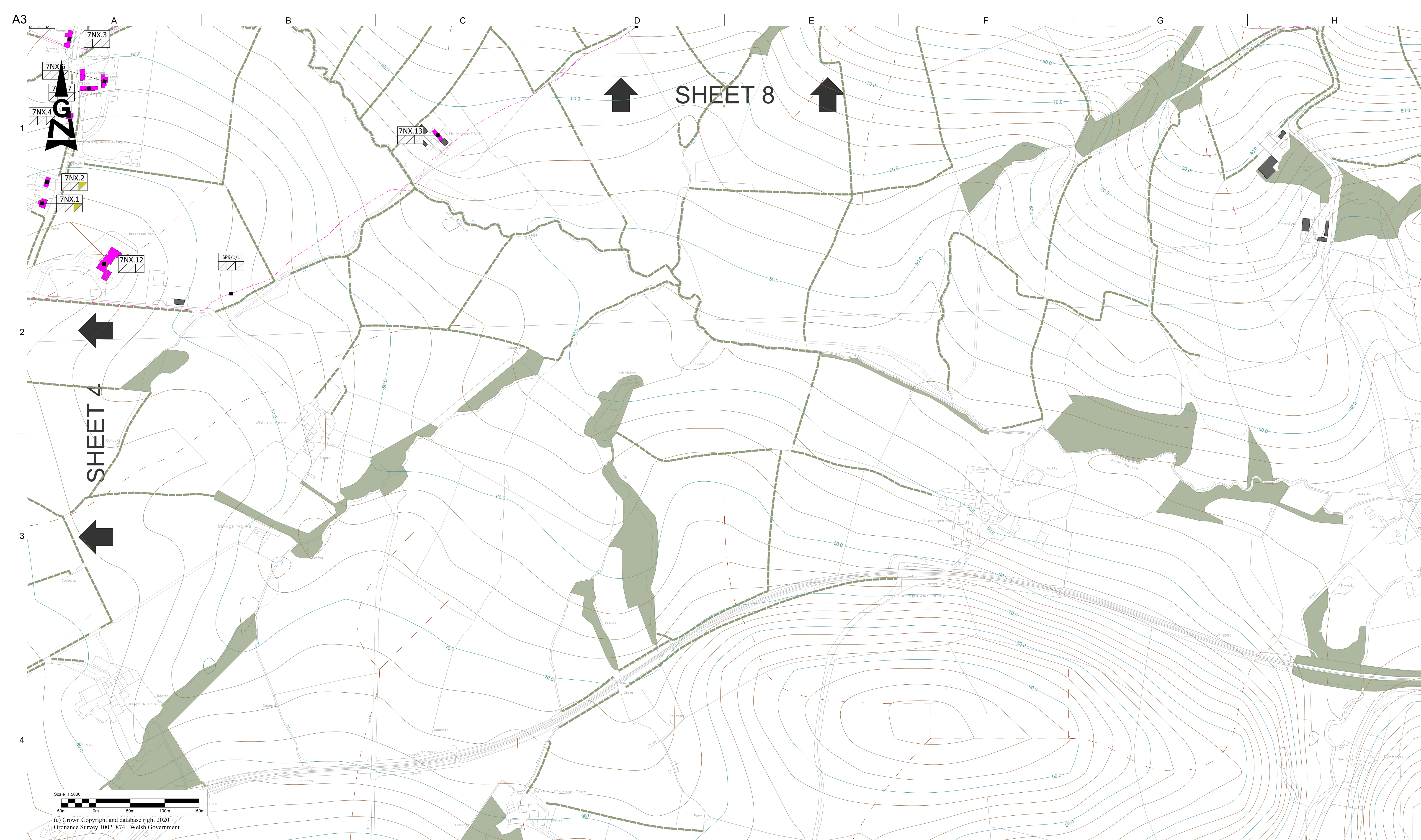
Drawing Title
FIGURE 9.7F
VISUAL EFFECTS
SHEET 6 OF 9

Suitability
S3 | SUITABLE FOR REVIEW & COMMENT





Scale at A1 1:5000

Rev	By	Chkd	Appd	Auth
P02	RE	AS	RC	GD
Date	23/03/20	23/03/20	24/03/20	25/03/20

Name	A40PRC-RML-ELS-	SWI	-DR-L-0912
Project	Originator	Volume	Location
Type	Role	Number	





Legend

-  Proposed road surface
 Earthworks cutting
 Earthworks embankment
 Sidelong cutting




- Surface contours
10 m major interval
2.5 m minor interval

 Location of representative viewpoint

Visual barriers










- Ridge lines
-  Tree belts and woodland
-  Hedgerow / Hedge-bank

Visual Receptors

-  Right Of Way - Bridleway
 Right Of Way - Public Footpath
 Receptor Buildings
 (refer to Visual Effects Schedule)

-
- Visual effect reference number
- Summer Year 15
- Winter Year 1

Significance of visual effect

- | | |
|---|---------------------|
|  | Very large negative |
|  | Large negative |
|  | Moderate negative |
|  | Slight negative |
|  | Neutral |
|  | Slight positive |
|  | Moderate positive |
|  | Large positive |
|  | Very large positive |

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P01	10/02/20	***		RE	AS	RC	***
P02	25/03/20	REV FINAL		RE	AS	RC	G
Rev	Date	Description		By	Chkd	Appd	Au

Project Title

A40 PENBLEWIN TO REDSTONE CROSS
IMPROVEMENTS

Client



Llywodraeth Cymru
Welsh Government



Delivery Team



FIGURE 9.7G
VISUAL EFFECTS
SHEET 7 OF 9

Suitability

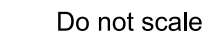
S3 | **SUITABLE FOR REVIEW & COMMENT**

Scale at A1 1:5000

Rev	By	Chkd	Appd	Auth
P02	RE	AS	RC	GD
	Date 23/03/20	Date 23/03/20	Date 24/03/20	Date 25/03/20

Name **A40PRC-RML - ELS - SWI - DR - L - 0913**

Project	Originator	Volume	Location	Type	Role	Number
---------	------------	--------	----------	------	------	--------



 Location of representative viewpoint

Winter Year 1

Winter Year 1

Very large negative
Large negative
Moderate negative
Slight negative
Neutral
Slight positive
Moderate positive
Large positive
Very large positive

Drawing Title

FIGURE 9.7H

VISUAL EFFECTS

SHEET 8 OF 9

Suitability

S3

SUITABLE FOR REVIEW & COMMENT

Scale at A1

1:5000

Rev	By	Chkd	Appd	Auth
P02	RE	AS	RC	GD
	Date	Date	Date	Date
	23/03/20	23/03/20	24/03/20	25/03/20

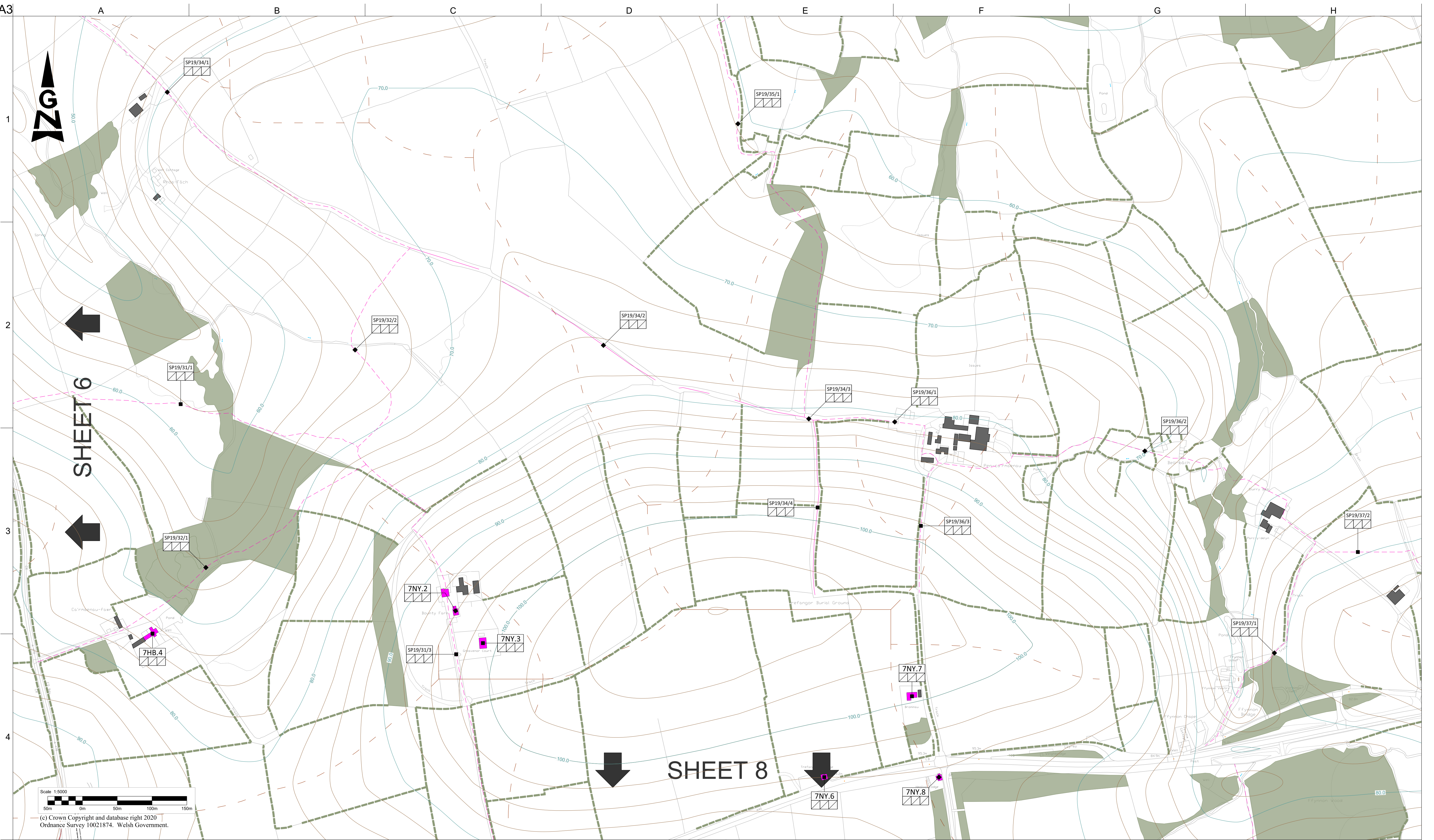
Name

A40PRC - RML - ELS -

SWI

- DR - L - 0914

Project	Originator	Volume	Location	Turns	Role	Number
---------	------------	--------	----------	-------	------	--------



Legend

- Proposed road surface
- Earthworks cutting
- Earthworks embankment
- Sidelong cutting
- Surface contours
- 10 m major interval
- 2.5 m minor interval
- Location of representative viewpoint

Visual barriers

- Ridge lines
- Tree belts and woodland
- Hedgerow / Hedge-bank

Visual Receptors


- Right Of Way - Bridleway
- Right Of Way - Public Footpath
- Receptor Buildings (refer to Visual Effects Schedule)
- Visual effect reference number
- Construction Summer Year 15
- Winter Year 1



Significance of visual effect

- Very large negative
- Large negative
- Moderate negative
- Slight negative
- Neutral
- Slight positive
- Moderate positive
- Large positive
- Very large positive

Rev	Date	Description	By	Chkd	Appd	Auth
P01	10/02/20	---	RE	AS	RC	---
P02	25/03/20	REV FINAL	RE	AS	RC	GD

Project Title
A40 PENBLEWIN TO REDSTONE CROSS IMPROVEMENTS

Client

Llywodraeth Cymru
Welsh Government

Delivery Team
 

Drawing Title
**FIGURE 9.71
VISUAL EFFECTS
SHEET 9 OF 9**

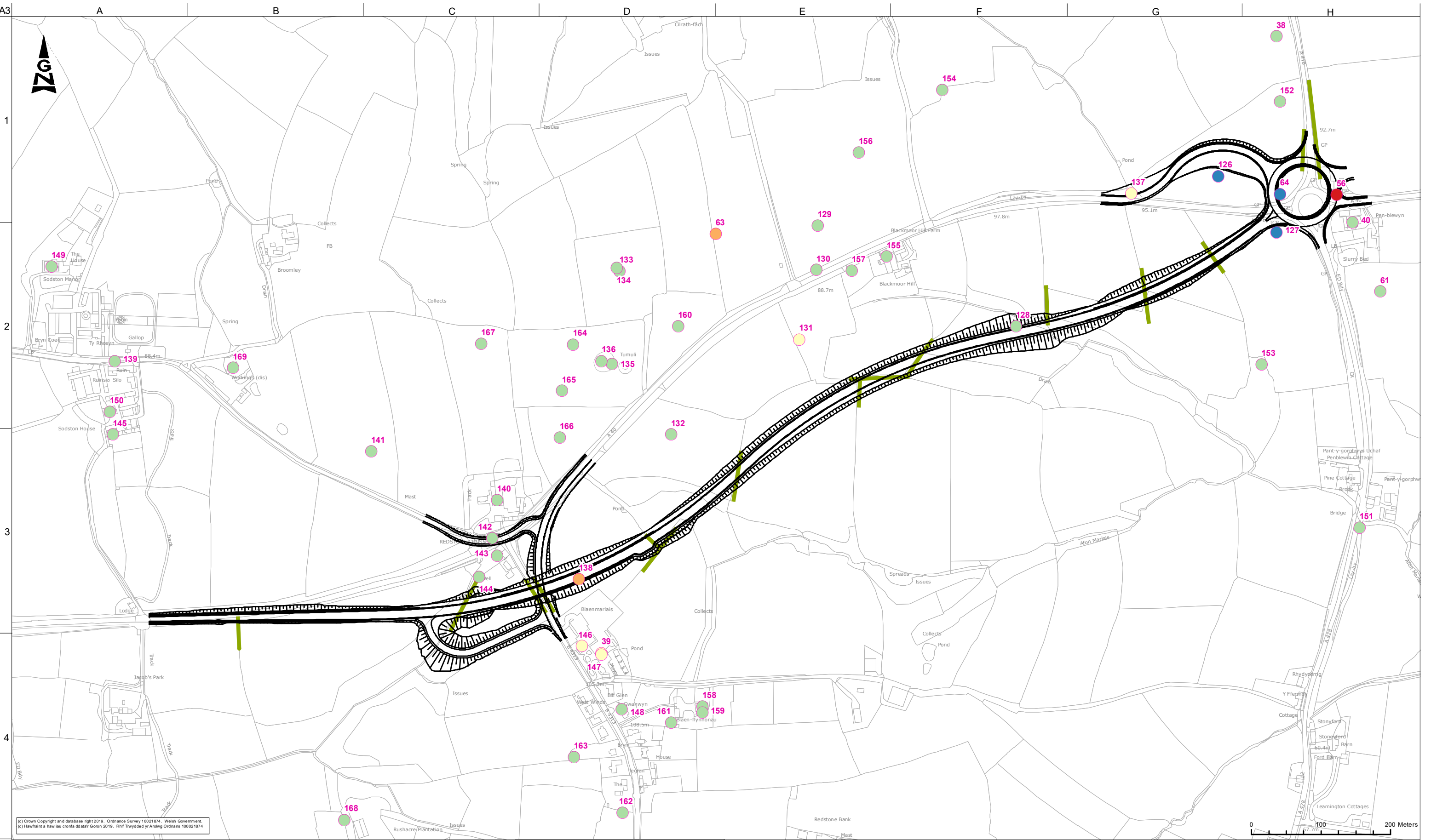
Suitability
S3 | SUITABLE FOR REVIEW & COMMENT

Scale at A1
1:5000

Rev	By	RE	Chkd	AS	Appd	RC	Auth	GD
P02	Date	23/03/20	Date	23/03/20	Date	24/03/20	Date	25/03/20

Name
A40PRC-RML-ELS-

Project
SWI -DR- L -0915



LEGEND

SIGNIFICANCE OF EFFECT

- SLIGHT OR MODERATE
- SLIGHT
- NEUTRAL OR SLIGHT
- NEUTRAL
- UNKNOWN

PREFERRED ROUTE

HEDGEROW REGULATION HEDGES

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log)

Construction	None
Maintenance / Cleaning	None
Use	None
Decommissioning / Demolition	None

Rev	Date	Description	By	Chkd	Appd	Auth
P01	12/12/19	FIRST ISSUE	AC	GJ	RC	GD

Project Title

A40 PENBLEWIN TO REDSTONE CROSS IMPROVEMENTS

Client

Uywodraeth Cymru
Welsh Government

Delivery Team

ARUP

ARCADIS

MOTT MACDONALD

RICHARDS

Drawing Title

FIGURE 10.2
EFFECTS ON CULTURAL HERITAGE ASSETS

Scale at A3

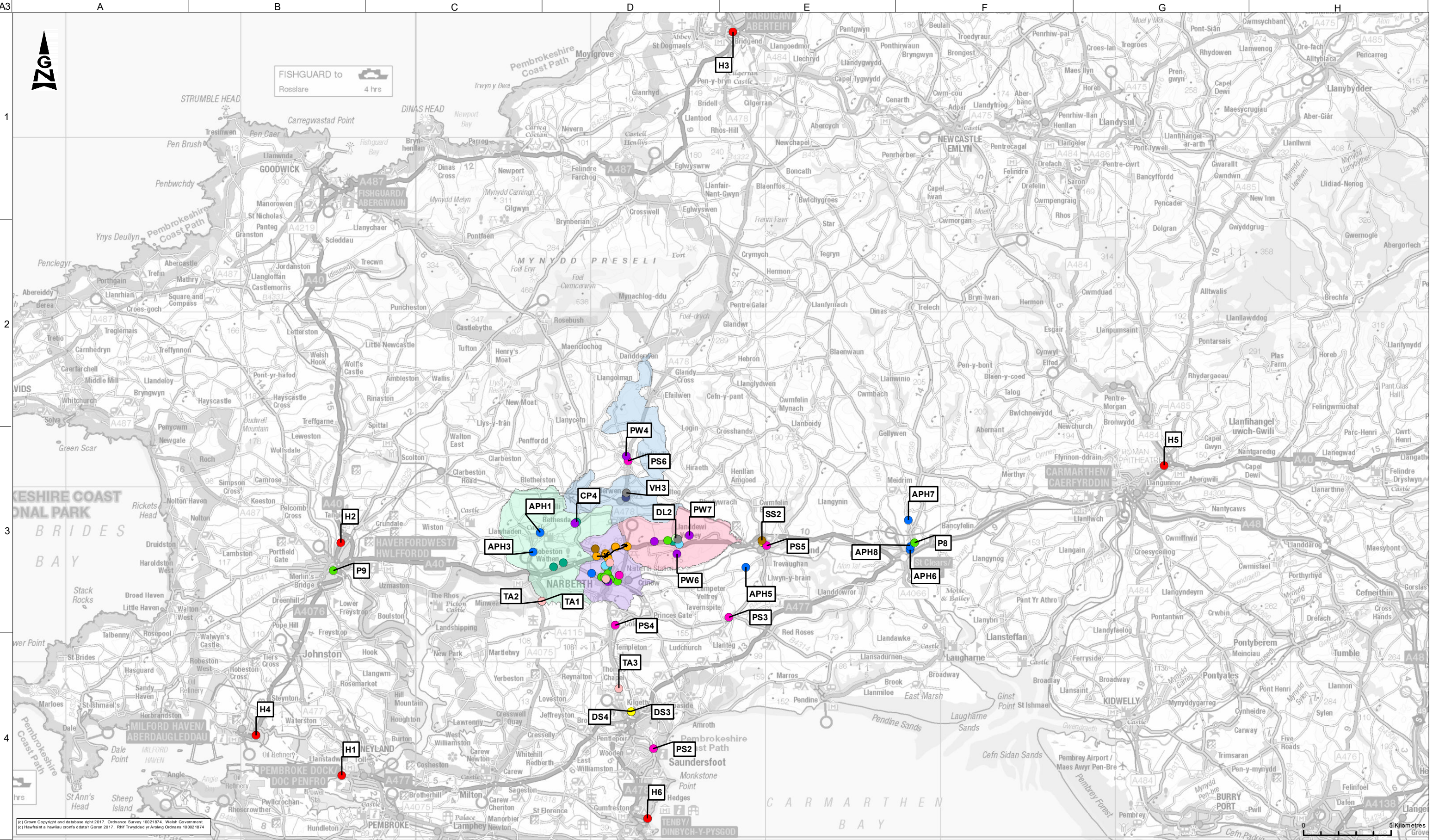
1:5,000

Rev	By	Chkd	Appd	Auth
P01	AC	GJ	RC	GD
Date	12/12/19	12/12/19	12/12/19	12/12/19

Name

A40PRC - ARP - EHR - SWI - DR - LH - 0003

Project	Originator	Volume	Location	Type	Role	Number
---------	------------	--------	----------	------	------	--------



LEGEND

— PROPOSED ALIGNMENT

● AGED PERSON HOME (APH)

● COMMERCIAL PROPERTY (CP)

● DEVELOPMENT LAND (DL)

● DOCTOR'S SURGERIES (DS)

● HOSPITALS (H)

● PARKS, PLAY AREAS, SPORTS CENTRES (P)

● PLACES OF WORSHIP (PW)

● POST OFFICES (PO)

● PRIMARY SCHOOLS (PS)

● RESIDENTIAL PROPERTY (RP)

● SECONDARY SCHOOLS (SS)

● SHOPS (SH)

● TOURIST/VISITOR ATTRACTIONS (TA)

● VILLAGE HALLS (VH)

● CLYNDERWEN

● LLANDDEWI VELFREY

● LLAWHADEN

● NARBERTH

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log)


Construction	None
Maintenance / Cleaning	None
Use	None
Decommissioning / Demolition	None

P01	03/12/19	FIRST ISSUE	AC	AS	TE	GD
Rev	Date	Description	By	Chkd	Appd	Auth

Project Title

A40 PENBLEWIN TO REDSTONE CROSS IMPROVEMENTS


Client



Llywodraeth Cymru
Welsh Government

ARCADIS

MOTT MACDONALD

Delivery Team




PLANNING LANDSCAPE ENVIRONMENT

Drawing Title

FIGURE 11.1
COMMUNITY ASSETS

Suitability

S4 SUITABLE FOR STAGE APPROVAL

Scale at A3

1:200,000

Rev	By	Chkd	Appd	Auth
P01	AC	AS	TE	GD
Date	03/12/19	03/12/19	03/12/19	03/12/19

Name

A40PRC - ARP - GEN - SWI - DR - G - 0001

Project

Originator

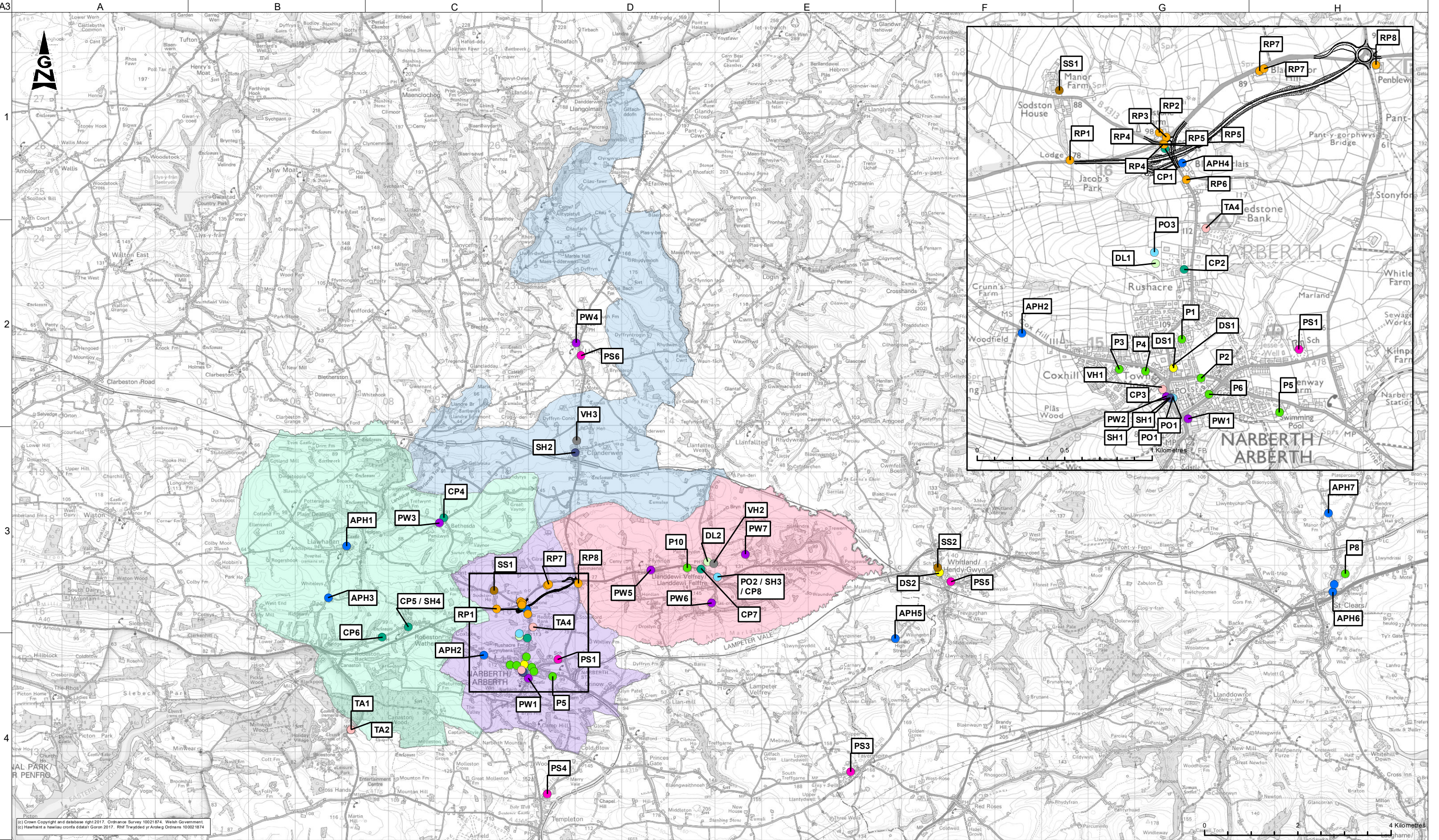
Volume

Location

Type

Role

Number



LEGEND

— PROPOSED ALIGNMENT

● AGED PERSON HOME (APH)

● COMMERCIAL PROPERTY (CP)

● DEVELOPMENT LAND (DL)

● DOCTOR'S SURGERIES (DS)

● HOSPITALS (H)

● PARKS, PLAY AREAS, SPORTS CENTRES (P)

● PLACES OF WORSHIP (PW)

● POST OFFICES (PO)

● PRIMARY SCHOOLS (PS)

● RESIDENTIAL PROPERTY (RP)

● SECONDARY SCHOOLS (SS)

● SHOPS (SH)

● TOURIST/VISITOR ATTRACTIONS (TA)

● VILLAGE HALLS (VH)

● CLYDERWEN

● LLANDEWELI VLFREY

● LLAWHADEN

● NARBERTH


SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION




In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log)

Construction	None
Maintenance / Cleaning	None
Use	None
Decommissioning / Demolition	None

P01	03/12/19	FIRST ISSUE	AC	AS	TE	GD
Rev	Date	Description	By	Chkd	Appd	Auth

Project Title
A40 PENBLEWIN TO REDSTONE CROSS IMPROVEMENTS

Client

Llywodraeth Cymru
Welsh Government

Delivery Team




Drawing Title
FIGURE 11.2 LOCAL COMMUNITY ASSETS

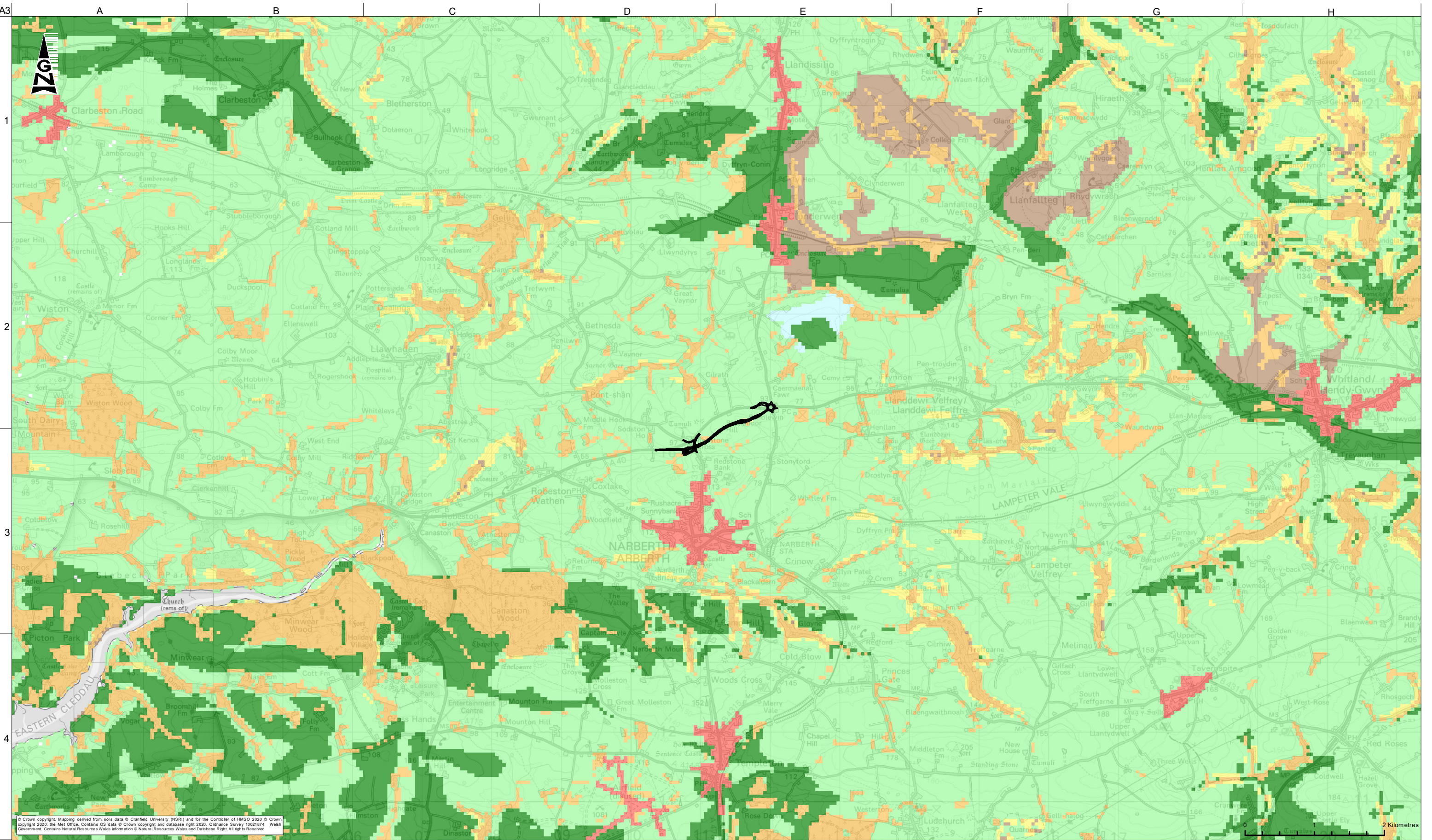
Subsidiary
S4 SUITABLE FOR STAGE APPROVAL

Scale at A3
1:75,000

Rev	By	Chkd	Appd	Auth
P01	AC	AS	TE	GD
Date	03/12/19	03/12/19	03/12/19	03/12/19

Name
A40PRC - ARP - GEN - SWI - DR - G - 0002

Project	Originator	Volume	Location	Type	Role	Number
---------	------------	--------	----------	------	------	--------



LEGEND

PREDICTIVE AGRICULTURAL LAND CLASSIFICATION (VERSION 2)

GRADE 1

GRADE 2

GRADE 3A

GRADE 3B

GRADE 4

GRADE 5

NON

URBAN

PROPOSED ALIGNMENT

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log)


Construction	None
Maintenance / Cleaning	None
Use	None
Decommissioning / Demolition	None

P01	22/06/20	FIRST ISSUE	AC	GJ	RC	GD
Rev	Date	Description	By	Chkd	Appd	Auth



Project Title

A40 PENBLEWIN TO REDSTONE CROSS IMPROVEMENTS



Client



Uywodraeth Cymru
Welsh Government



Delivery Team



Drawing Title

**FIGURE 12.1
PREDICTIVE AGRICULTURAL LAND CLASSIFICATION**

Suitability

S4 | SUITABLE FOR STAGE APPROVAL

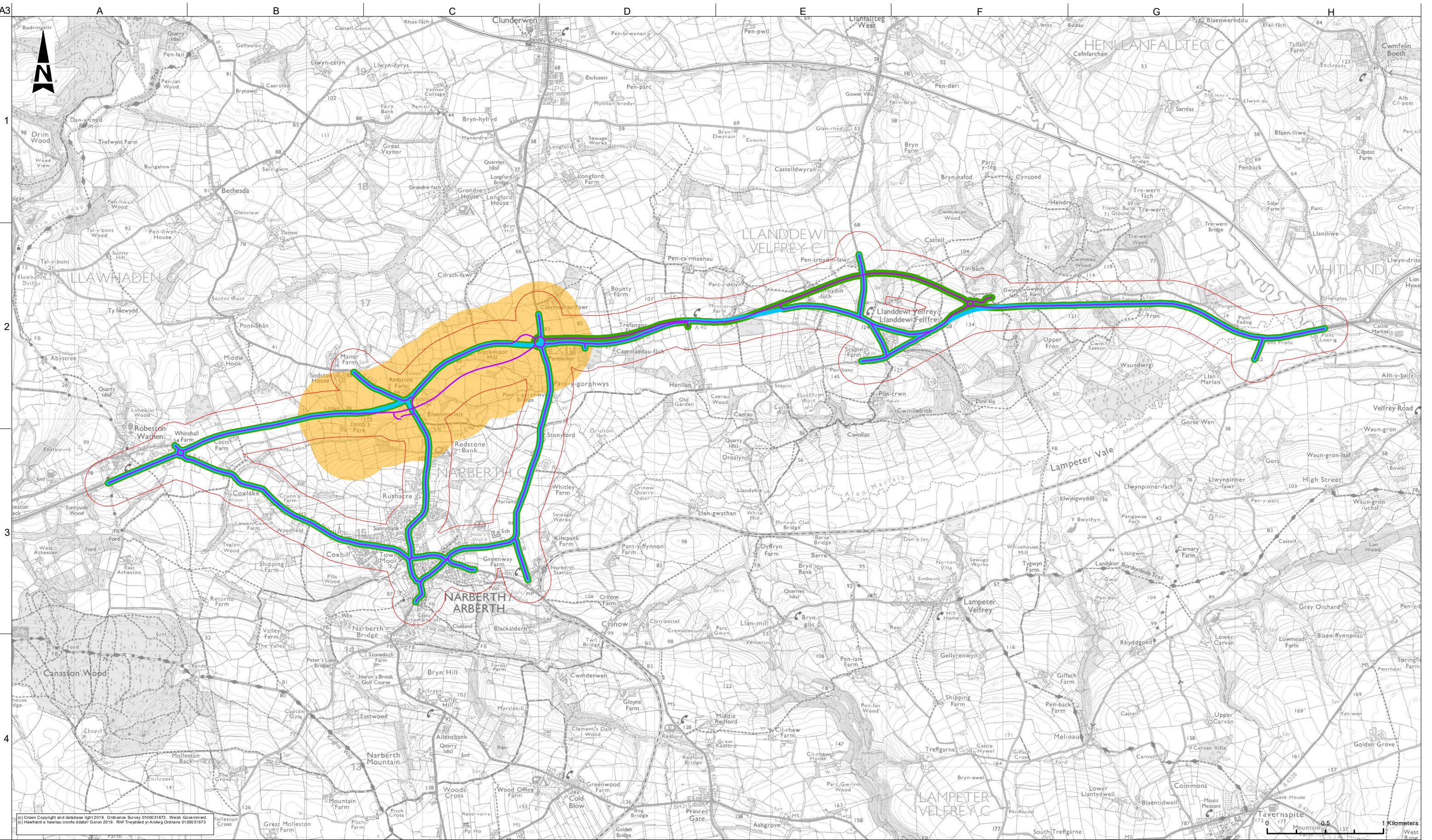
Scale at A3 1:50,000

Rev	By	Chkd	Appd	Auth
P01	AC	GJ	RC	GD
Date	22/06/20	22/06/20	22/06/20	22/06/20

Name

A40PRC - ARP - EGN - SWI - DR - LE - 0008

Project	Originator	Volume	Location	Type	Role	Number
---------	------------	--------	----------	------	------	--------



LEGEND

- BASELINE MODELLED ROADS
- DO MINIMUM MODELLED ROADS
- DO SOMETHING MODELLED ROADS
- OPERATIONAL PHASE
- CONSTRUCTION PHASE


SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION



In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log)

Construction	None
Maintenance / Cleaning	None
Use	None
Decommissioning / Demolition	None

P01	29/11/19	FIRST ISSUE	AC	JB	TE	GD
Rev	Date	Description	By	Chkd	Appd	Auth

Project Title
A40 PENBLEWIN TO REDSTONE CROSS IMPROVEMENTS

Client

Llywodraeth Cymru
Welsh Government

Delivery Team
 

Drawing Title
FIGURE 13.1 AIR QUALITY STUDY AREA

Suitability
S4 | SUITABLE FOR STAGE APPROVAL

Scale at A3
1:30,000

Rev	By	Chkd	Appd	Auth	
P01	AC	JB	TE	GD	
Date	29/11/19	Date	29/11/19	Date	29/11/19

Name
A40PRC - ARP - VAQ - SWI - DR - LA - 0001

Project	Originator	Volume	Location	Type	Role	Number
---------	------------	--------	----------	------	------	--------



LEGEND



AIR QUALITY MONITORING LOCATIONS

PROPOSED ALIGNMENT

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log)

Construction
None
Maintenance / Cleaning
None
Use
None
Decommissioning / Demolition
None

P01	02/12/19	FIRST ISSUE	AC	JB	RC
Rev.	Date	Description	By	Chkd	Appd

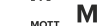
Project Title

**A40 PENBLEWIN TO REDSTONE
CROSS IMPROVEMENTS**

Client



Llywodraeth Cymru
Welsh Government



Delivery Team



Drawing Title

FIGURE 13.2
A40LVP AIR QUALITY
MONITORING LOCATIONS

Suitability

S4 | SUITABLE FOR STAGE APPROVAL

Scale at A3

1:30,000

Rev P01	By AC	Chkd JB	Appd RC	Auth GD
	Date 02/12/19	Date 02/12/19	Date 02/12/19	Date 02/12/19

Name _____

A40PRC - ARP - VAQ - SWI - DR - LA - 000

Project	Originator	Volume	Location	Type	Role	Number
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LEGEND

— BASELINE MODELLED ROADS

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log)


Construction
None
Maintenance / Cleaning
None
Use
None
Decommissioning / Demolition
None

P01	02/12/19	FIRST ISSUE	AC	JB	RC	GD
Rev	Date	Description	By	Chkd	Appd	Auth



Project Title

A40 PENBLEWIN TO REDSTONE CROSS IMPROVEMENTS



Client



Uywodraeth Cymru
Welsh Government



Delivery Team



Drawing Title

**FIGURE 13.3
BASELINE MODELLED ROADS**

Suitability

S4 | SUITABLE FOR STAGE APPROVAL

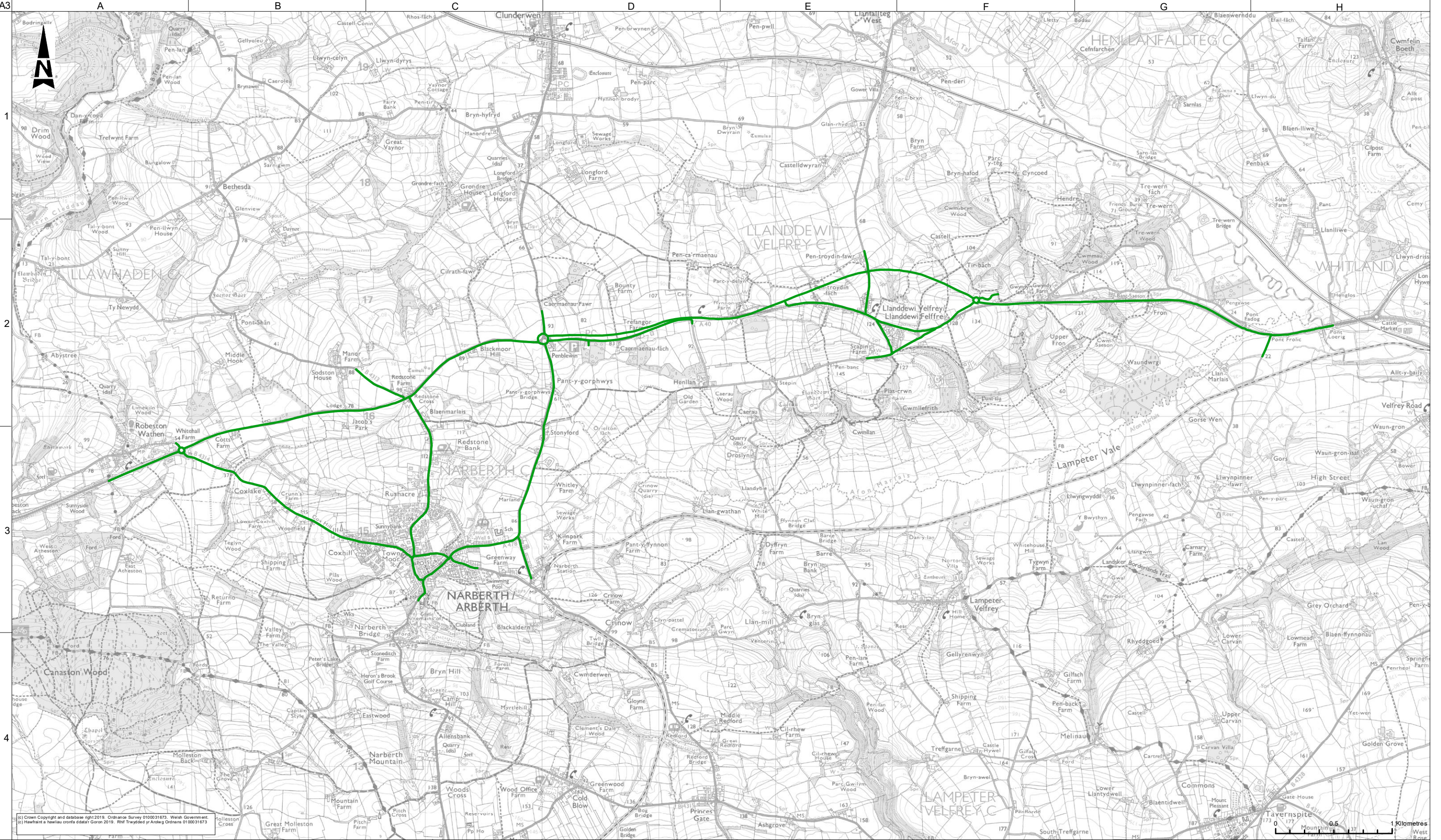
Scale at A3 1:30,000

Rev	By	Chkd	Appd	Auth	
P01	AC	JB	RC	GD	
Date	02/12/19	Date	02/12/19	Date	02/12/19

Name

A40PRC - ARP - VAQ - SWI - DR - LA - 0003

Project	Originator	Volume	Location	Type	Role	Number
---------	------------	--------	----------	------	------	--------



LEGEND

— DO MINIMUM MODELLED ROADS


SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION



In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log)

Construction
None
Maintenance / Cleaning
None
Use
None
Decommissioning / Demolition
None

P01	02/12/19	FIRST ISSUE	AC	JB	RC	GD
Rev	Date	Description	By	Chkd	Appd	Auth

Project Title
A40 PENBLEWIN TO REDSTONE CROSS IMPROVEMENTS

Client

Llywodraeth Cymru
Welsh Government

Delivery Team
 

Drawing Title
FIGURE 13.4 DO MINIMUM MODELLED ROADS

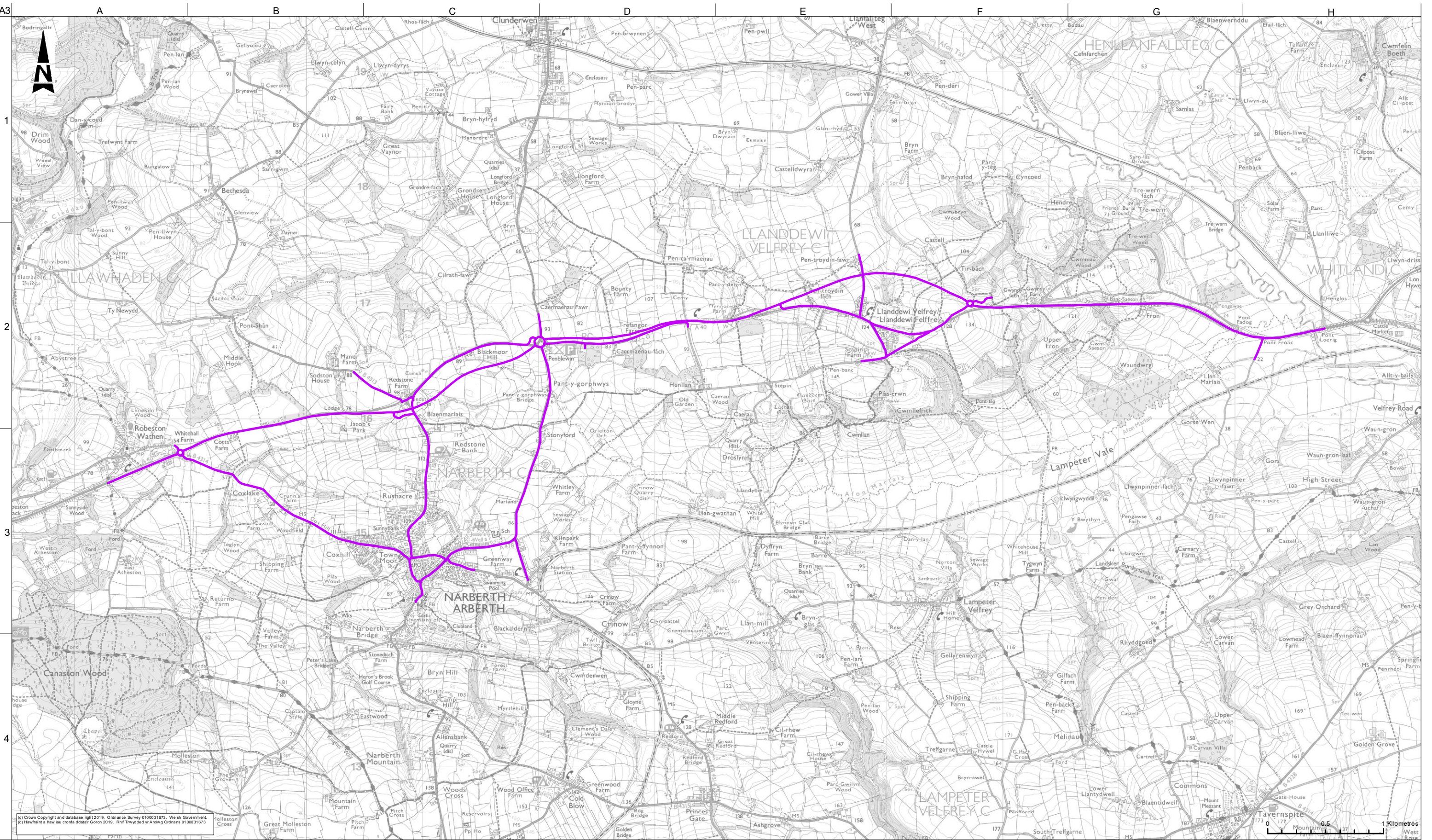
Suitability
S4 | SUITABLE FOR STAGE APPROVAL

Scale at A3
1:30,000

Rev	By	Chkd	Appd	Auth
P01	AC	JB	RC	GD
Date	02/12/19	02/12/19	02/12/19	02/12/19

Name
A40PRC - ARP - VAQ - SWI - DR - LA - 0004

Project	Originator	Volume	Location	Type	Role	Number
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LEGEND

— DO SOMETHING MODELLED ROADS

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log)


Construction
None
Maintenance / Cleaning
None
Use
None
Decommissioning / Demolition
None

P01	02/12/19	FIRST ISSUE	AC	JB	RC	GD
Rev	Date	Description	By	Chkd	Appd	Auth



Project Title

A40 PENBLEWIN TO REDSTONE CROSS IMPROVEMENTS



Client



Llywodraeth Cymru
Welsh Government



Delivery Team



Drawing Title

**FIGURE 13.5
DO SOMETHING MODELLED ROADS**

Suitability

S4 | SUITABLE FOR STAGE APPROVAL

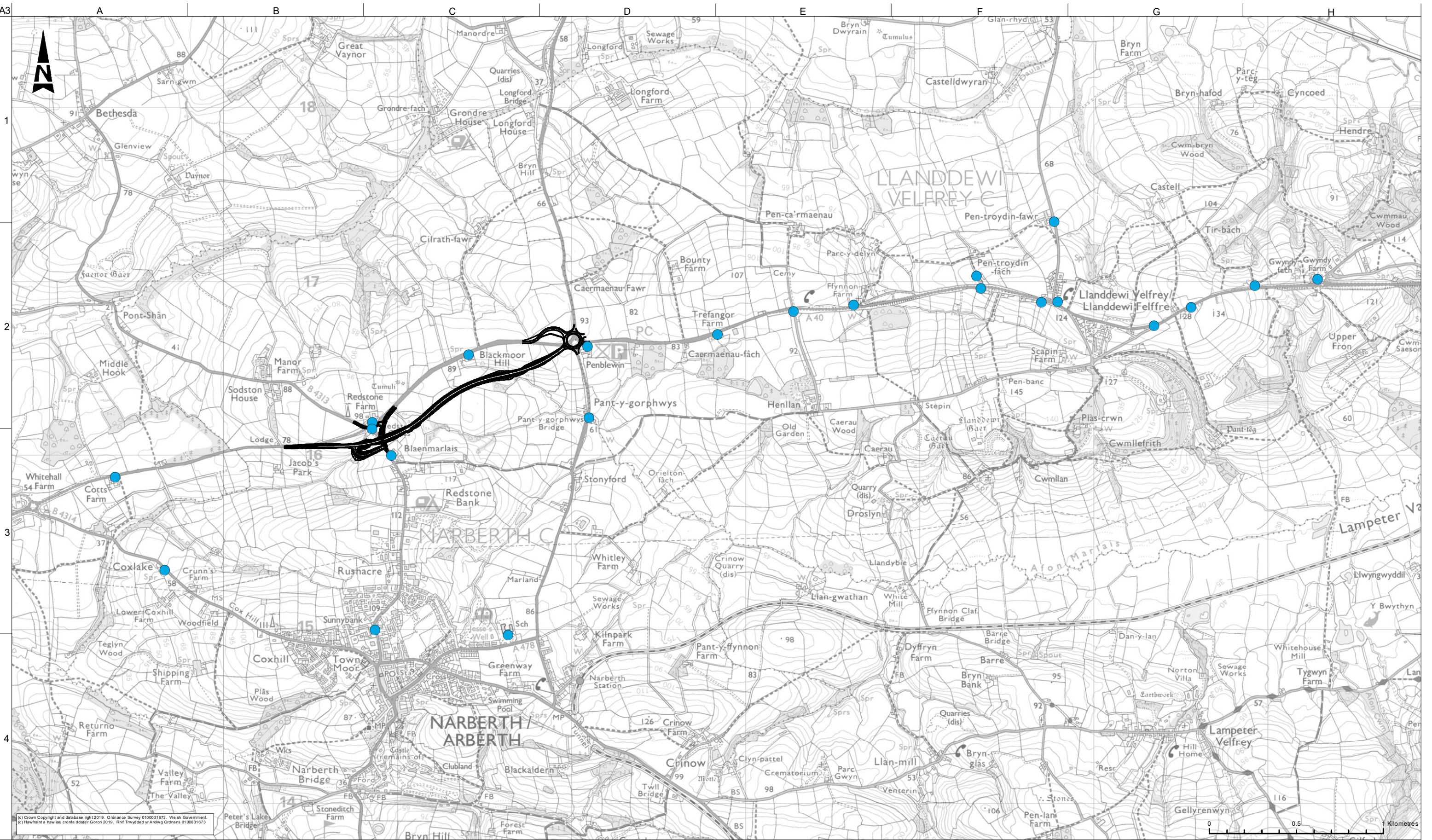
Scale at A3 1:30,000

Rev	By	Chkd	Appd	Auth	
P01	AC	JB	RC	GD	
Date	02/12/19	Date	02/12/19	Date	02/12/19

Name

A40PRC - ARP - VAQ - SWI - DR - LA - 0004

Project	Originator	Volume	Location	Type	Role	Number
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LEGEND

● ASSESSED RECEPTORS

— PROPOSED ALIGNMENT


SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION



In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log)

Construction	None
Maintenance / Cleaning	None
Use	None
Decommissioning / Demolition	None

P01	02/12/19	FIRST ISSUE	AC	JB	RC	GD
Rev	Date	Description	By	Chkd	Appd	Auth

Project Title
A40 PENBLEWIN TO REDSTONE CROSS IMPROVEMENTS

Client

Llywodraeth Cymru
Welsh Government

Delivery Team
 

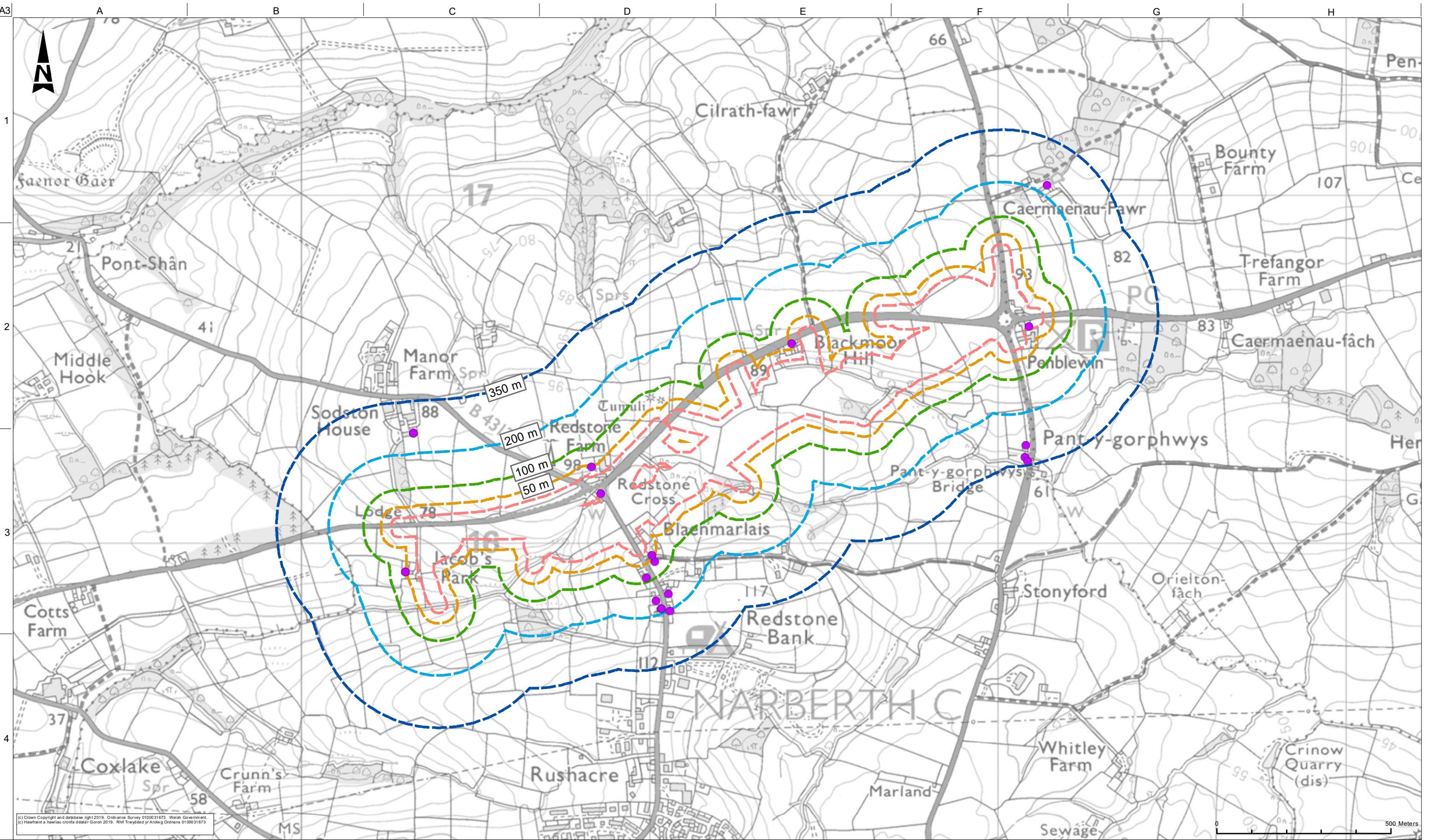
Drawing Title
FIGURE 13.6 ASSESSED RECEPTOR LOCATIONS

Scale at A3 1:20,000

Rev	By	Chkd	Appd	Auth
P01	AC	JB	RC	GD
Date	02/12/19	02/12/19	02/12/19	02/12/19

Name
A40PRC - ARP - VAQ - SWI - DR - LA - 0005

Project	Originator	Volume	Location	Type	Role	Number
---------	------------	--------	----------	------	------	--------



LEGEND

CONSTRUCTION DUST BUFFERS (METERS)

- 20
- 50
- 100
- 200
- 350

RECEPTORS SENSITIVE TO DUST

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log)

Construction	None
Maintenance / Cleaning	None
Use	None
Decommissioning / Demolition	None

P01	03/12/19	FIRST ISSUE	AC	JB	RC	GD
Rev	Date	Description	By	Chkd	Appd	Auth

Project Title
A40 PENBLEWIN TO REDSTONE CROSS IMPROVEMENTS

Client
Llywodraeth Cymru
Welsh Government

Delivery Team
ARUP **RICHARDS**

Drawing Title
FIGURE 13.7 CONSTRUCTION DUST BUFFERS

Scale at A3
1:10,000

Rev	By	Chkd	Appd	Auth
P01	AC	JB	RC	GD
Date	03/12/19	03/12/19	03/12/19	03/12/19

Name
A40PRC - ARP - VAQ - SWI - DR - TR - 0006

Project	Originator	Volume	Location	Type	Role	Number
---------	------------	--------	----------	------	------	--------



LEGEND

- MAJOR BENEFICIAL IMPACT
- MODERATE BENEFICIAL IMPACT
- MINOR BENEFICIAL IMPACT
- NEGLIGIBLE IMPACT
- MINOR ADVERSE IMPACT
- PROPOSED ALIGNMENT


SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION



In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log)

Construction	None
Maintenance / Cleaning	None
Use	None
Decommissioning / Demolition	None

P01	03/12/19	FIRST ISSUE	AC	JB	RC	GD
Rev	Date	Description	By	Chkd	Appd	Auth

Project Title
A40 PENBLEWIN TO REDSTONE CROSS IMPROVEMENTS

Client

Llywodraeth Cymru
Welsh Government

Delivery Team
 

Drawing Title
FIGURE 13.8 NO2 IMPACT DESCRIPTOR

Scale at A3
1:20,000

Rev	By	Chkd	Appd	Auth
P01	AC	JB	RC	GD
Date	03/12/19	03/12/19	03/12/19	03/12/19

Name
A40PRC - ARP - VAQ - SWI - DR - LA - 0007

Project	Originator	Volume	Location	Type	Role	Number
---------	------------	--------	----------	------	------	--------



LEGEND

- MINOR BENEFICIAL IMPACT
- NEGLIGIBLE IMPACT
- PROPOSED ALIGNMENT


SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION



In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log)

Construction	None
Maintenance / Cleaning	None
Use	None
Decommissioning / Demolition	None

P01	02/12/19	FIRST ISSUE	AC	JB	RC	GD
Rev	Date	Description	By	Chkd	Appd	Auth

Project Title
A40 PENBLEWIN TO REDSTONE CROSS IMPROVEMENTS

Client

Llywodraeth Cymru
Welsh Government

Delivery Team
 

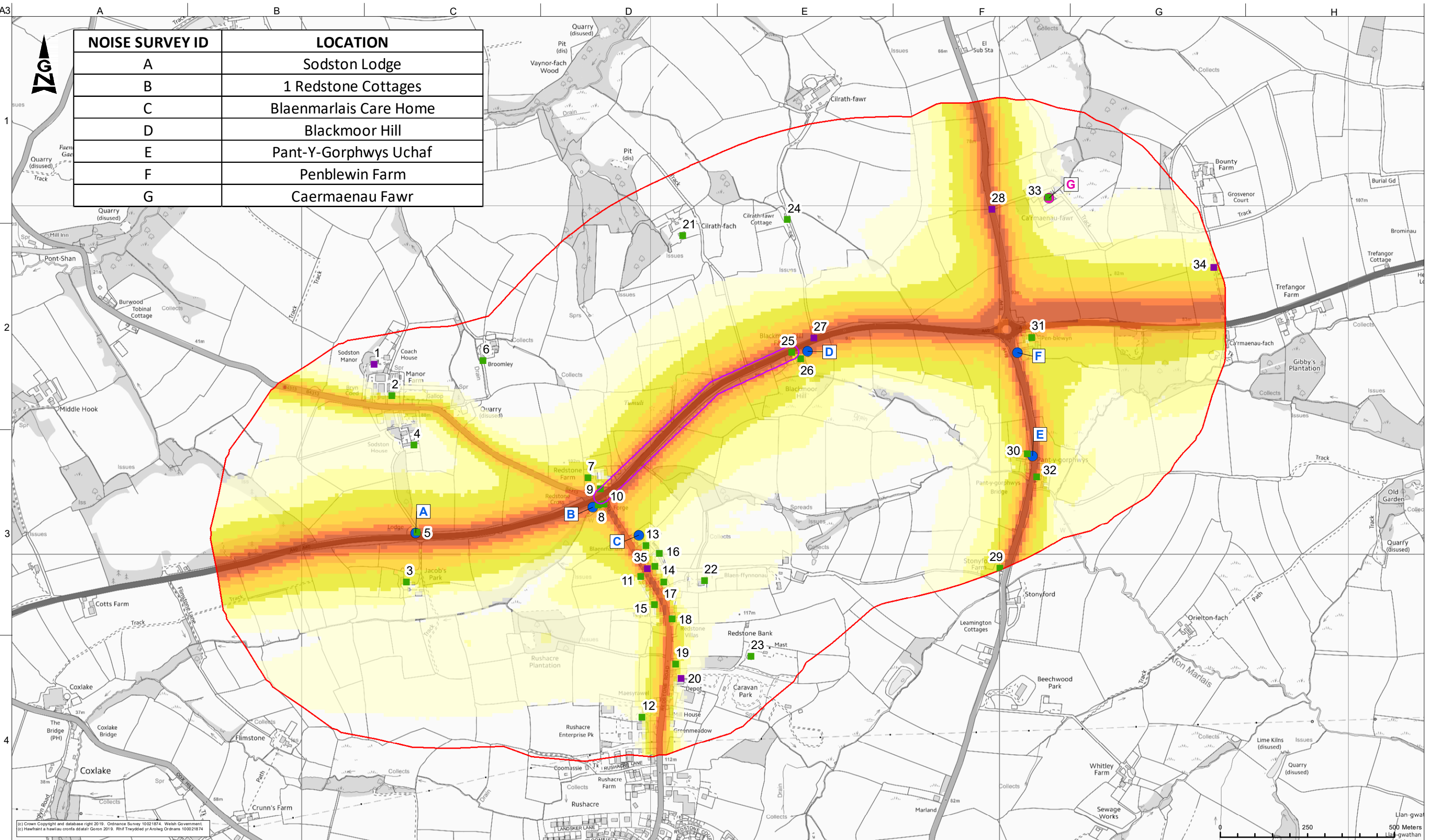
Drawing Title
**FIGURE 13.9
PM10 IMPACT DESCRIPTOR**

Scale at A3
1:20,000

Rev	By	Chkd	Appd	Auth
P01	AC	JB	RC	GD
Date	02/12/19	02/12/19	02/12/19	02/12/19

Name
A40PRC - ARP - VAQ - SWI - DR - LA - 0008

Project	Originator	Volume	Location	Type	Role	Number
---------	------------	--------	----------	------	------	--------



LEGEND

STUDY AREA

NOISE ACTION PLAN PROXIMITY AREA

NON-RESIDENTIAL OPERATIONAL ASSESSMENT LOCATION

RESIDENTIAL OPERATIONAL ASSESSMENT LOCATION

NOISE MONITORING LOCATIONS

ATTENDED

UNATTENDED

PREDICTED BASELINE NOISE LEVEL

dB L_{A10,18hr} FREE-FIELD

< 47

47 - 50

50 - 53

53 - 56

56 - 59

59 - 62

62 - 65

> 65

Note 1. Equivalent façade noise levels can be obtained by adding 2.5dB to the displayed level.

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log)

Construction

None

Maintenance / Cleaning

None

Use

None

Decommissioning / Demolition

None

P01	10/03/20	LOCATION NAME AMENDMENT	AC	PM	RC	GD
P01	10/12/19	FIRST ISSUE	AC	PM	TE	GD
Rev.	Date	Description	By	Chkd	Appd	Auth

Project Title

A40 PENBLEWIN TO REDSTONE CROSS IMPROVEMENTS

Client

Ulywodraeth Cymru

Welsh Government

M

MOTT MACDONALD

ARUP

RICHARDS

PLANNING LANDSCAPE ENVIRONMENT

Delivery Team

Drawing Title

FIGURE 14.1

NOISE STUDY AREA, NOISE SURVEY AND ASSESSMENT LOCATIONS AND BASELINE NOISE LEVELS (L_{A10,18HR}) IN 2022

Scale at A3

1:10,000

Rev

By

Date

AC

10/03/20

Chkd

PM

10/03/20

Appd

RC

10/03/20

Auth

GD

10/03/20

Name

A40PRC - ARP - ENV -

Project

Originator

Volume

SWI

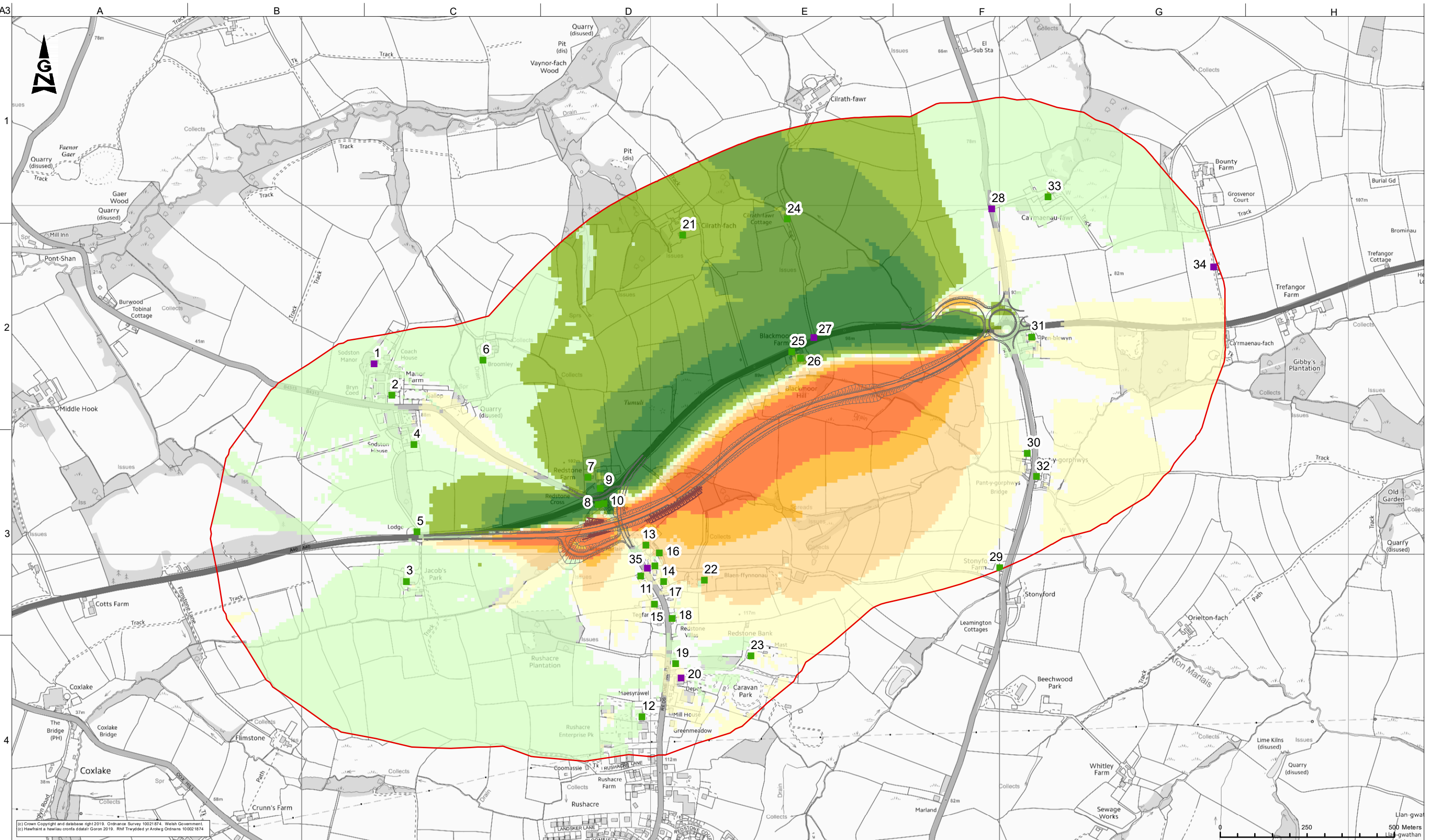
Location

Type

Role

Number

- DR - LA - 0001



LEGEND

- STUDY AREA
- PROPOSED SCHEME ALIGNMENT
- PROPOSED LANDSCAPE BUNDING
- NON-RESIDENTIAL OPERATIONAL ASSESSMENT LOCATION
- RESIDENTIAL OPERATIONAL ASSESSMENT LOCATION

SHORT TERM NOISE CHANGE (dB LA10,18hr)

- < -5
- 5 to -3
- 3 to -1
- 1 to -0.1
- 0.1 to 1
- 0.1 to 1
- 1 to 3
- 3 to 5
- > 5

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log)

Construction	None
Maintenance / Cleaning	None
Use	None
Decommissioning / Demolition	None

P01	22/06/20	FIRST ISSUE	AC	PM	TE	GD
Rev	Date	Description	By	Chkd	Appd	Auth

Project Title
A40 PENBLEWIN TO REDSTONE CROSS IMPROVEMENTS

Client
Llywodraeth Cymru
Welsh Government

Delivery Team
ARUP

Drawing Title
FIGURE 14.3 NOISE CHANGES (LA10,18HR) AS A RESULT OF THE SCHEME IN THE BASELINE YEAR (2022)

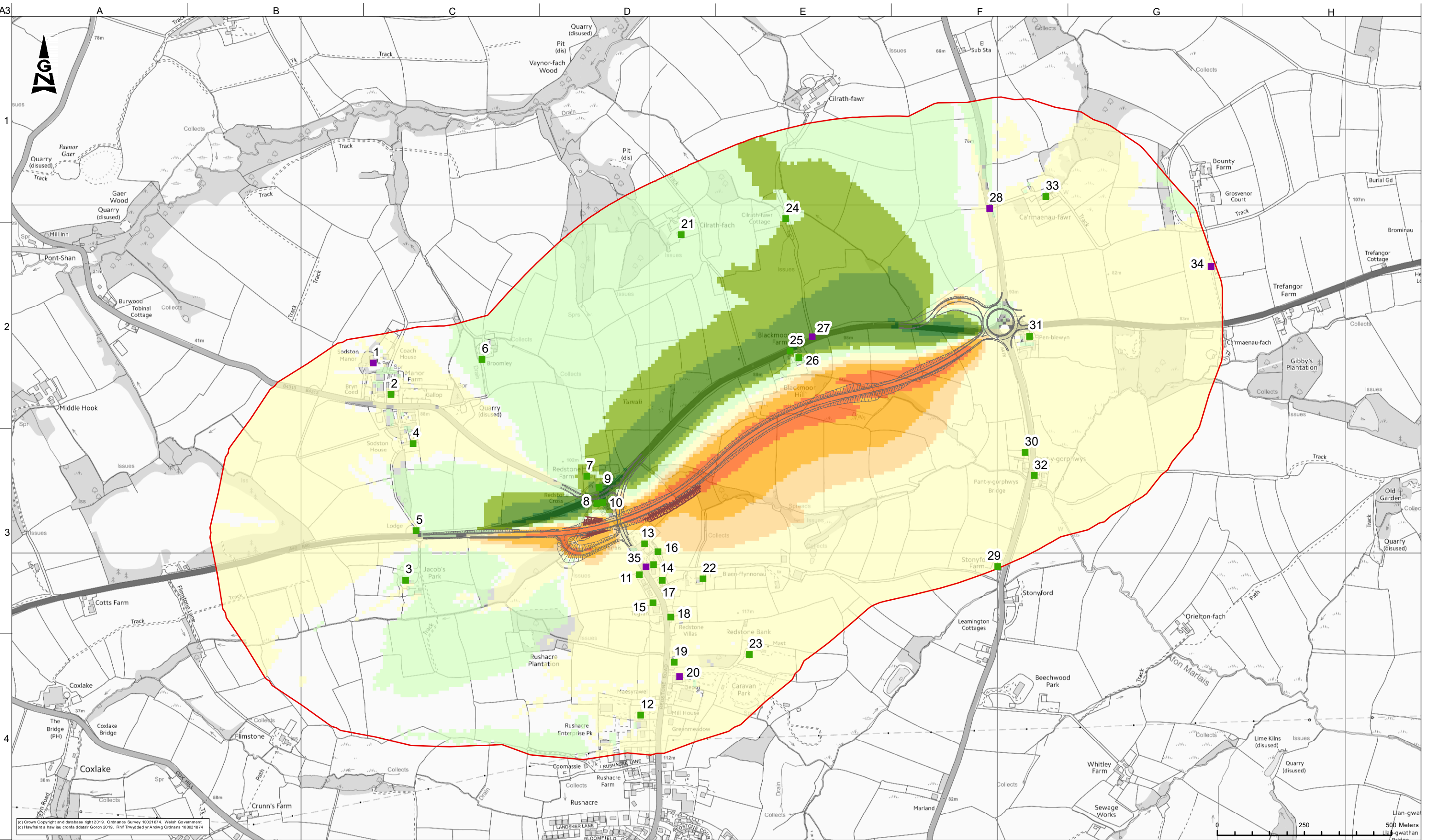
Suitability
S4 | SUITABLE FOR STAGE APPROVAL

Scale at A3
1:10,000

Rev	By	Chkd	Appd	Auth
P01	AC	PM	TE	GD
Date	22/06/20	22/06/20	22/06/20	22/06/20

Name
A40PRC - ARP - ENV - SWI - DR - LA - 0003

Project	Originator	Volume	Location	Type	Role	Number
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LEGEND

- STUDY AREA
- PROPOSED SCHEME ALIGNMENT
- PROPOSED LANDSCAPE BUNDING
- NON-RESIDENTIAL OPERATIONAL ASSESSMENT
- RESIDENTIAL OPERATIONAL ASSESSMENT LOCATION

LONG TERM NOISE CHANGE (dB LA10,18hr)

- < -10
- 10 to -5
- 5 to -3
- 3 to -0.1
- 0.1 to 0.1
- 0.1 to 3
- 3 to 5
- 5 to 10
- > 10

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log)

Construction	None
Maintenance / Cleaning	None
Use	None
Decommissioning / Demolition	None

P01	22/06/20	FIRST ISSUE	AC	PM	TE	GD
Rev	Date	Description	By	Chkd	Appd	Auth

Project Title
A40 PENBLEWIN TO REDSTONE CROSS IMPROVEMENTS

Client
Llywodraeth Cymru
Welsh Government

Delivery Team
ARUP

Drawing Title
FIGURE 14.4 NOISE CHANGES (LA10,18HR) AS A RESULT OF THE SCHEME IN THE FUTURE YEAR (2037)

Scale at A3
1:10,000

Rev
P01

By
AC

Chkd
PM

Appd
TE

Auth
GD

Date
22/06/20

Date
22/06/20

Date
22/06/20

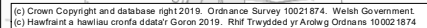
Date
22/06/20

Name
A40PRC - ARP - ENV -

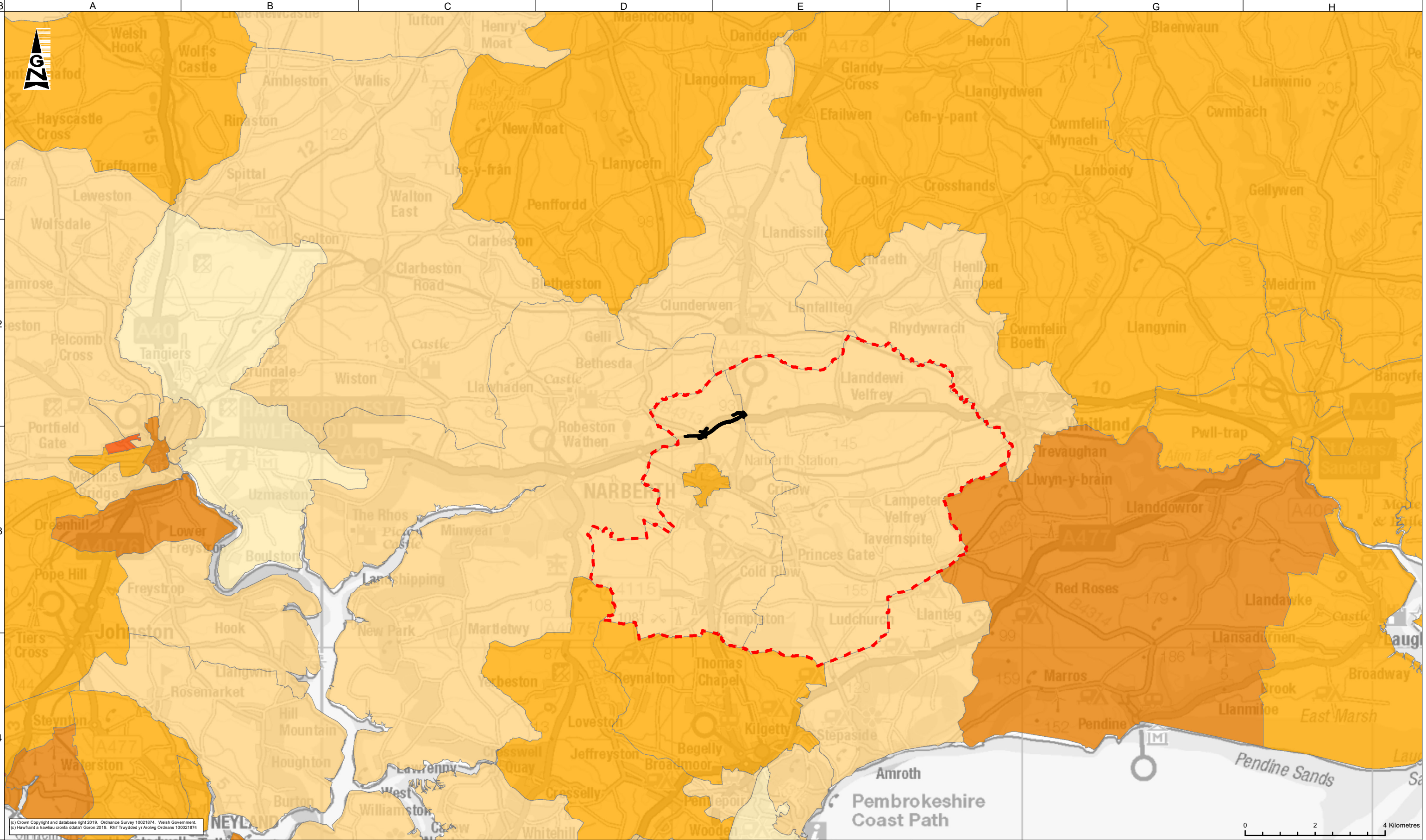
Project
Originator
Volume

SWI
Location

- DR - LA - 0004
Type
Role
Number



Name
A40PRC - ARP - ENM - SWI - DR - C - 0003



LEGEND

— PROPOSED ALIGNMENT

STUDY AREA

MULTIPLE DEPRIVATION QUINTILES (RANK WITHIN WALES)

LEAST DEPRIVED

MOST DEPRIVED

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log)

Construction

None

Maintenance / Cleaning

None

Use

Non

Decommissioning / Demolition

None

Project Title

**A40 PENBLEWIN TO REDSTONE CROSS
IMPROVEMENTS**

Client



Llywodraeth Cymru
Welsh Government



Delivery Team

ARUP



Drawing Title

FIGURE 17.1
MULTIPLE INDEX OF DEPRIVATION,
QUINTILES WITHIN WALES

S3 | FIT FOR REVIEW AND COMMENT

Scale at A3 1:100.000

Rev	By	Chkd	Appd	Auth
P01	AC	AM	TE	GD
	Date 03/12/19	Date 03/12/19	Date 03/12/19	Date 03/12/19

Name							
A40PRC - ARP - GEN -			SWI		- DR - J - 0002		
Project	Originator	Volume	Location	Type	Role	Number	

