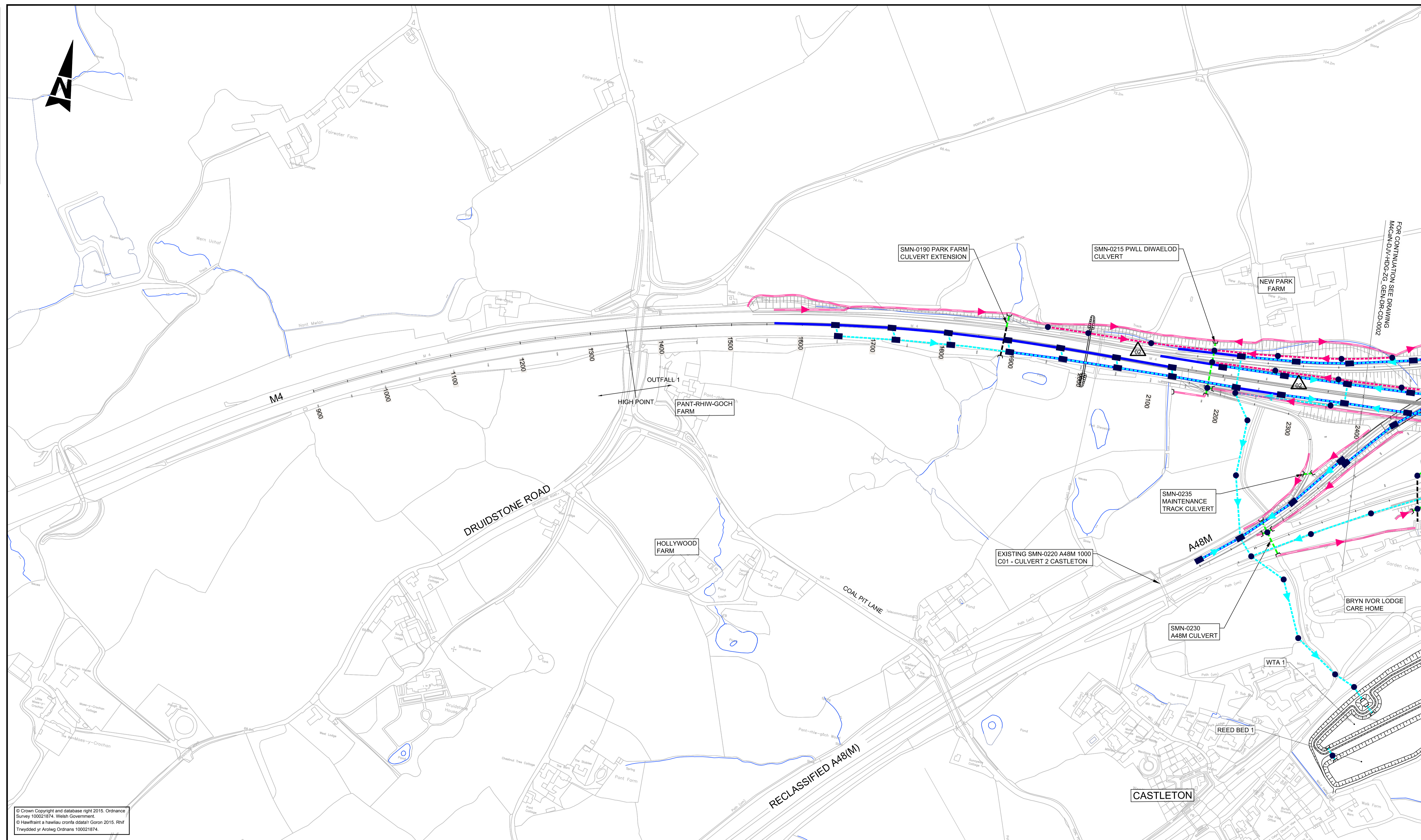


DO NOT SCALE

Millimetres

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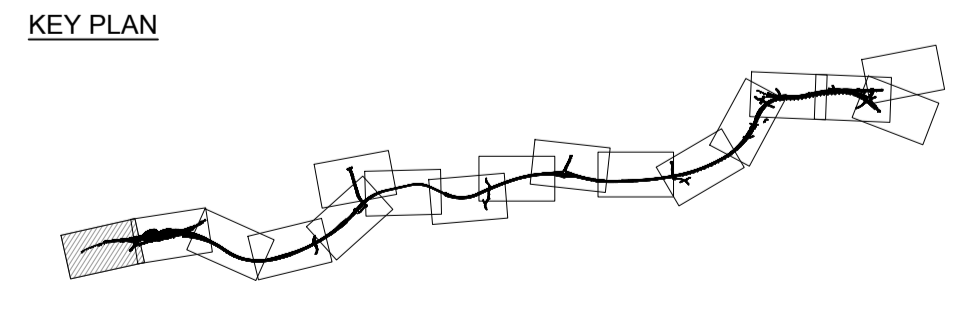


FOR CONTINUATION SEE DRAWING M4CaN-DJV-HDG-ZG_GEN-DR-CD-0002

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- GENERAL NOTES:**
- ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE
 - ONLY WRITTEN DIMENSIONS SHALL BE USED, DO NOT SCALE.
 - FIN DRAINS NOT SHOWN FOR CLARITY, TO BE HCD F18 TYPE 7.

- LEGEND:**
- CATCHPIT - HCD F11 / MANHOLE - HCD F4, F5, F6 & F7
 - INTAKE CHAMBER - HCD F22 & F24
 - PETROL INTERCEPTOR
 - CONCRETE HEADWALL
 - GRASS LINED DITCH IN BOX CULVERT
 - CARRIER PIPE - HCD F1
 - CONCRETE CHANNEL - HCD F21 & B3 & B7 & B12
 - CONCRETE CHANNEL - HCD F21 & B3 & B7 & B12 WITH CARRIER PIPE - HCD F1 BELOW
 - GRASS LINED CHANNEL
 - COMBINED KERB DRAINAGE
 - REPLACEMENT REEM
 - REPLACEMENT FIELD DITCH
 - HIGHWAY CUT OFF DITCH
 - FILTER DRAIN - HCD F2
 - EXISTING REEM
 - EXISTING REEM TO BE FILLED
 - EXISTING FIELD DITCH TO BE FILLED
 - EXISTING CULVERT TO BE RETAINED
 - PROPOSED CULVERT
 - COMBINED KERB DRAINAGE WITH CARRIER PIPE - HCD F1 BELOW
 - EXISTING NRW SLUICE
 - PROPOSED NRW TILTING WEIR / PENSTOCK
 - POTENTIAL NRW ACCESS (IN ABEYANCE)
 - INDIRECT LOSS FIELD DITCHES
 - SITE OF SPECIAL SCIENTIFIC INTEREST BOUNDARY



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	No exceptional risks
Maintenance / Cleaning	No exceptional risks
Use	No exceptional risks
Decommissioning / Demolition	No exceptional risks

Rev.	Date	Description	By	CHK'd	App'd
ISSUE 1	27/01/16	FINAL ISSUE TO WG	DJW	TJD	HR
ISSUE 2	26/08/16	SUPPLEMENTARY ISSUE	DJW	WBO	HR

Drawing Status: Submittal

Project Team:

Client:  Llywodraeth Cymru Welsh Government

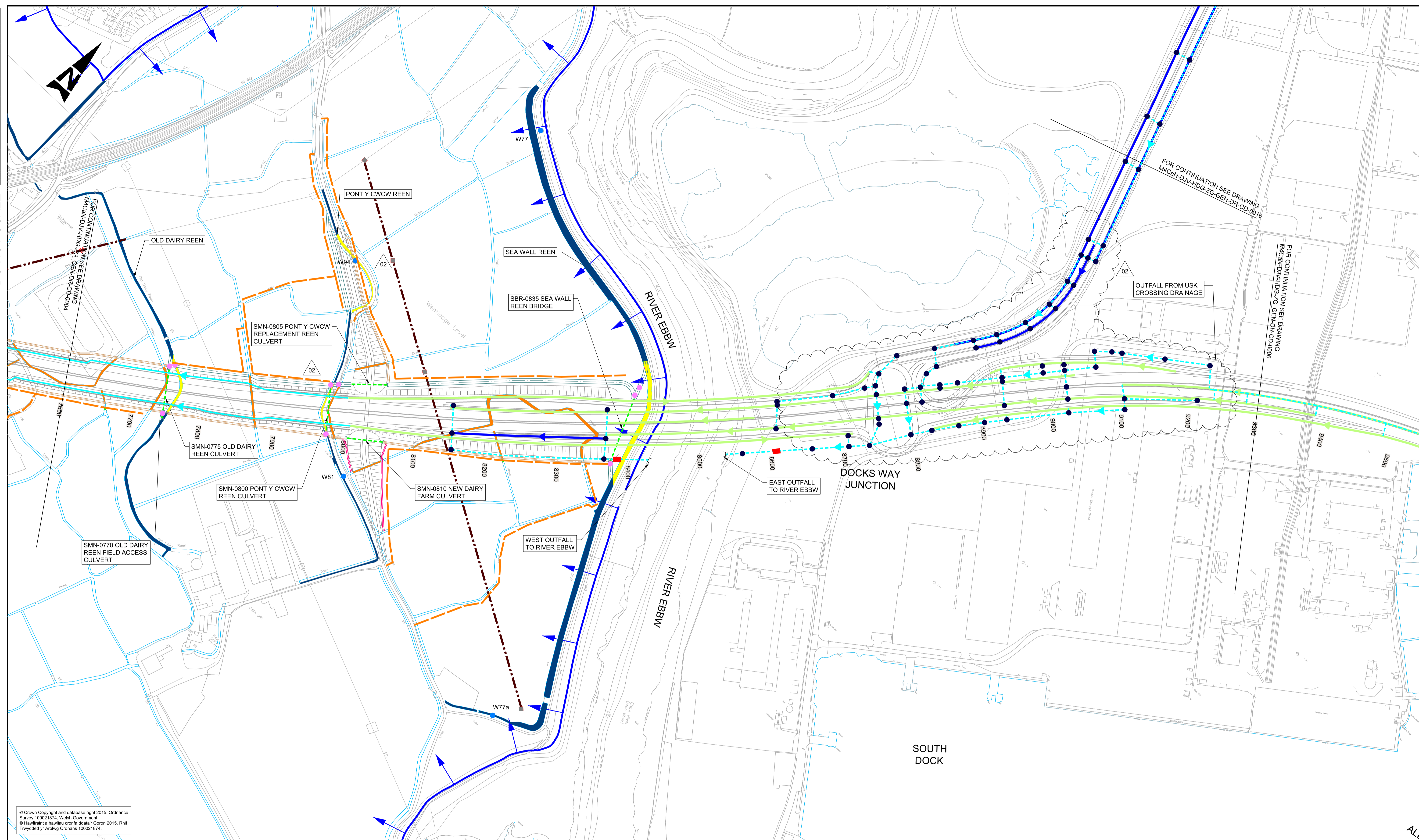
M4 CORRIDOR AROUND NEWPORT

**FIGURE R2.5
HIGHWAY DRAINAGE AND REEM MITIGATION
SHEET 1 OF 16**

Scale	1:2500	Designed / Drawn	DJW	Checked	WBO	Approved	HR	Authorised	KEN
Original Size	A1	Date	25/08/16	Date	25/08/16	Date	25/08/16	Date	26/08/16
Drawing Number	Project		Originator		Volume		Revision		
	M4CaN - DJV - HDG - ZG_GEN - DR - CD - 0001						ISSUE 2		

DO NOT SCALE

100
Millimetres



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GENERAL NOTES:

- ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
- ONLY WRITTEN DIMENSIONS SHALL BE USED, DO NOT SCALE.
- FIN DRAINS NOT SHOWN FOR CLARITY. TO BE HCD F18 TYPE 7.

LEGEND:

● CATCHPIT - HCD F11 / MANHOLE - HCD F4, F5, F6 & F7	— REPLACEMENT REEN
■ INTAKE CHAMBER - HCD F22 & F24	— REPLACEMENT FIELD DITCH
■ PETROL INTERCEPTOR	— HIGHWAY CUT OFF DITCH
— CONCRETE HEADWALL	— FILTER DRAIN - HCD F2
— GRASSED CHANNEL IN BOX CULVERT	● EXISTING REEN
— CARRIER PIPE - HCD F1	● EXISTING REEN TO BE FILLED
— CONCRETE CHANNEL - HCD F21 & B3 & B7 & B12	● EXISTING FIELD DITCH TO BE FILLED
— CONCRETE CHANNEL - HCD F21 & B3 & B7 & B12 WITH CARRIER PIPE - HCD F1 BELOW	— EXISTING CULVERT TO BE RETAINED
— GRASSED CHANNEL	— PROPOSED CULVERT
— COMBINED KERB DRAINAGE	— COMBINED KERB DRAINAGE WITH CARRIER PIPE - HCD F1 BELOW

KEY PLAN:

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	No exceptional risks
Maintenance / Cleaning	Culverts partially submerged Main bridge drainage to outfalls at bridge abutment
Use	No exceptional risks

ISSUE

ISSUE 1	04/02/16	FINAL ISSUE TO WG	AC	DOL	HR
ISSUE 2	26/08/16	SUPPLEMENTARY ISSUE	AC	DOL	HR

Project Status	
Project Team	
Client	

Scale	1:2500	Designed / Drawn	AC	Checked	DOL	Approved	HR	Authorised	KEN
Original Size	A1	Date	25/08/16	Date	25/08/16	Date	26/08/16	Date	26/08/16
Drawing Number	Project		Originator	Volume	Revision				
M4CORR			M4CaN - DJV - HDG - ZG_GEN - DR - CD - 0005		ISSUE 2				

Project Title
M4 CORRIDOR AROUND NEWPORT

Drawing Title
FIGURE R2.5
HIGHWAY DRAINAGE AND REEN MITIGATION
SHEET 5 OF 16

Client
Llywodraeth Cymru
Welsh Government