

A483/A489 Newtown Bypass – Powys County Council Departures Risk Assessment

Specific Risk Assessment Form

Project: A483/A489 Newtown Bypass

Doc Ref: DP120 – Risk Assessment

Rev No: 3

Management of Health and Safety at Work Regulations 1999

Ref	Hazard	P	S	R	Response/Control Measure	P	S	R	Details
DP 120	Sag curve and crest curve exceed the number of permitted design steps for a relaxation leading to nose to tail shunts or side impacts and loss of control due to lack of comprehension of road layout ahead. Causation factors: • Inappropriate speed • Lack of awareness of road layout ahead • Rate of change of vertical alignment • Fatigue/asleep	3	2	6	This alignment was selected to minimise earthworks and the associated environmental impact of the route. It will also eliminate the need to divert an existing Wales and West Utilities high pressure gas main whilst maintaining a degree of consistency to the existing layout and minimising the skew angle of the proposed bridge. The existing vertical and horizontal alignment along Wern-Ddu Lane and the carriageway and verge widths are very narrow resulting in low traffic speeds. It is considered that the current proposal provides the optimum solution for balancing the highway alignment with local topography and other constraints in this location, whilst maintaining consistency to the contiguous sections either side of this length of new highway. The visibility provided offers an improvement to the existing standard and is considered appropriate for the anticipated vehicular speeds at this location. In order to mitigate the hazard the following measures are to be implemented as part of the proposed scheme: • 2 No. passing bays to be provided either side of the proposed bridge with passing bay signs provided to discourage parking.	2	2	4	Detailed Design

Verification:				*Details (Typical examples resulting from risk classification)					
Prepared by: C Jones	Checked by: T Davies			T	Training	P	Permits	MS	Method Statement
Date: 23/03/2015	Date: 23/03/2015			I/B	Induction/briefing	SA	Self assessment	Other	 N/A

Explanatory Note on Risk Classification

Risk is the likelihood of potential harm from a hazard being realised. The extent of risk will depend on:

- The likelihood/probability of that harm occurring
- The potential severity of that harm, i.e. of any resultant injury or adverse health effect
- The population which might be affected by the hazard, i.e. the number of people who might be exposed.

The risk assessments should be reviewed if there is reason to suspect that they are no longer valid or there has been a significant change in the matters to which they relate. (Ref: Management Regulations – Regulation 3).

Risk classification and required action:

Probability (P) *		Severity (S) *					
		0	1	2	3	4	5
		No harm	Minor harm	Moderate harm	Serious harm	Major harm	Catastrophic harm
0	Almost impossible	-	-	-	-	-	-
1	Extremely unlikely	-	1	2	3	4	5
2	Unlikely	-	2	4	6	8	10
3	Likely	-	3	6	9	12	15
4	Extremely likely	-	4	8	12	16	20
5	Almost certain	-	5	10	15	20	25

Risk rating/classification (R)	
1 - 9 /Low	Ensure control measures are maintained and reviewed as necessary
10 – 19 /Medium	Control measures needed to reduce risk rating to a level which is as low as is “reasonably required”
20 – 25 /High	Activity not permitted – hazard to be avoided or risk to be considerably reduced so it is tolerable

* Probability that harm will occur:			* Potential severity of harm: e.g.		
0	Almost impossible	Probability close to zero	0	No harm	No injury, damage, sickness or other loss
1	Extremely unlikely	Highly improbable, never known to occur	1	Minor harm	Minor injury with short term effect, minor damage or loss
2	Unlikely	Improbable, remote chance	2	Moderate harm	Lost time injury or illness, moderate damage or loss
3	Likely	Possible, has happened occasionally	3	Serious harm	Over 3 day injury or illness, substantial damage or loss
4	Extremely likely	Probable, commonly occurs	4	Major harm	Major injury, major damage or loss
5	Almost certain	Inevitable, definite, continually occurs	5	Catastrophic harm	Fatality (inc. to the public) or disabling illness, catastrophic damage or loss