A496 - Llanbeder Access Improvement

Status Closed PROJECT RISK REGISTER (Y/N) Ref **Risk Description Phase of impact Probability Matrix Score** Mitigation **Key Action** Ownership **Impact Impact** A change on the Client's funding priorities requires the scheme to Scheme will not proceed Review currently being carried out - risk of scheme delay remains 5 20 be delayed. 2 Funding priorities reduce the scope for landowner discussions. 20 Cost and programme 5 4 A finite allowance has been made for the discussions with landowners. N Design Meet with landowners to discuss the works and request access to land for required Lack of access to some areas of land. Cost and programme Design, Construction surveys, access now granted, but this can be revoked, therefore impact is still applicable Lack of definitive information about the future development of Programme and Design Costs 2 Inform stakeholder group as early warning Llanbedr airfield - risk to robustness of the WelTAG study No client comments (GC) received on draft Planning stage report. 2 Programme and Design Costs WG asked to review and approve Potential for requirement to complete WelTAG Stage 2 2 3 Liaison with WG once preferred option known Programme and Design Costs That the Consultants find an 'environmental showstopper' on the Programme and Design Costs 3 5 15 Undertake appropriate surveys to determine environmental issues Pre contract proposed route which has to be avoided. New Health and Safety Legislation could impact on construction Ensure compliance with current legislation Programme and Design Costs 3 Pre contract Potential showstopper - unlikely that WG would pursue scheme in the event of a Challenge under European Law e.g. by NRW or third party. Programme and Design Costs 5 Design challenge - cost of scheme closedown Ensure adequate liaison with EA - possible comments on addendum to Environmental Changes in requirements of Natural Resource Wales Programme and Design Costs Design Ensure adequate liaison with Gwynedd County Council - possible comments on 11 | Changes in requirements of Gwynedd Council as LLFA Programme and Design Costs Pre contract addendum to Environmental Statement Ensure adequate liaison with SNPA - possible comments on addendum to 12 | Changes in requirements of SNPA Cost and Programme Pre contract **Environmental Statement** Delays caused by liaison with external bodies, statutory 13 2 3 6 Discuss diversion works with all Statutory Undertakers. C3 to be issued ASAP Cost and Programme Construction N undertakers, etc. Unexpected diversions to statutory undertakers plant during Small number of private dwellings hence consequences of risk minimal. Cost and Programme 15 Accuracy of statutory undertaker estimates Ensure that information regarding alignment design is correct prior to issuing C3 notices Cost and Programme Cost 5 2 10 Statutory Undertakers cannot deliver to our current programme of Pre-contract design and 16 Ensure on-going liaison with external bodies - residual risk remains with the Employer Cost and Programme 5 5 N construction Challenge by local landowners 3 12 Early and continuous consultation. Cost and Programme 4 Pre-contract and Design Ensure that land plans are correct and adequate for the construction works including any 18 Difficulties in obtaining land required for scheme 3 15 Cost, Programme and Quality Pre-contract and Design 5 accommodation works and drainage works. Assessment underway, requirement for trial trenching will be required before planning Archaeological discoveries 2 5 10 Cost and Programme Pre-contract and Design 2 10 Risk of scheme progressing to public enquiry. Cost, Programme and Quality Continuous discussions with landowners to minimise probability of Public Inquiry Pre-contract and Design 21 The scheme will be rejected during Public Inquiry 5 5 Ensure all documentation is correct and checked thoroughly Cost and Programme Pre-contract and Design Drainage scheme assumes direct discharge to fields is acceptable 22 Cost and Programme 3 Following preparation of drainage design, discuss with landowner to check suitability Pre-contract and Design 3 N to landowners Identification of protected species during the works. 23 5 5 Baseline surveys underway Cost and Programme Pre-contract and Design Adequacy of cost estimates, estimate, management, pricing, Monitor scheme costs and implement value management as appropriate, ensure 24 Cost and Programme Pre-contract and Design special circumstances presented by iob. adequate policing of risk register, ensure that cost control procedures are in place. Changes in DMRB. Ensure on-going compliance with standards to minimise risk 25 Contractor Cost and Quality Construction

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Status Closed PROJECT RISK REGISTER (Y/N) **Risk Description Phase of impact Probability Matrix Score** Mitigation **Key Action** Ownership **Impact Impact** Current scheme estimate greater than that indicated in forward Cost and Programme 2 Ensure rigid cost estimate is produced. Construction Contractor programme 27 Location of site within environmentally sensitive area. 2 Cost and Programme Pre-contract and Design Baseline surveys underway Dry stone walls to be incorporated into the design to aid continuity Additional costs to the scheme, some issues may arise with items not covered by 28 2 **Cost and Programme** Pre-contract and Design 4 8 of the proposed improvement. standards Some issues with alignment standards may affect the level of the proposed Level of the proposed improvement to be kept as low as possible to improvement. Any additional embankment included within the proposal will affect the 29 minimise the impact on the adjacent properties. The inclusion of an Cost and Programme 3 3 9 Pre-contract and Design artificial embankment may be used with a stone wall on top to footprint of the works and may Additional screening to the east of the proposed improvement near Additional cost to the scheme, additional land take would be required to incorporate the 12 Cost and Programme 3 Pre-contract and Design Swn yr Afon property. required screening requirements Stone cladding of structures to be evaluated to aid their integration Additional costs and additional weight on the structure to be included in any design 31 2 **Cost and Programme** Pre-contract and Design into the landscape calculations Lighting design to be evaluated. Arcadis to be informed of all 32 3 Current standards require lighting. Assessment to be carried out on lighting requirement Cost and Programme Pre-contract and Design 3 lighting design ASAP. Evidence of Badger set been discovered, unable to go within 30 Environmental team will required to have badger licence to be able to work within 30 5 Programme and Design Costs Pre-contract and Design N meter of the set till badger licence been obtained. meters of the set. Environmental team seek clarification from NRW. Bore holes and trial pits to be carried out to mitigate risk. Reduced access in some areas Ground Investigation (GI) to be carried out to determine ground and Badger set location. 6 weeks delay to be able to carryout investigation in Badger set 5 25 Programme and Design Costs Design, Construction ask usually carried out during site clearance before any major works to be carried. Require topsoil strip before contract award for archaeological 35 Programme and Design Costs 5 25 Dialog with planning to discuss. Agreement from Snowdonia National Park will be Design, Construction 5 required. Standing stones - Cadw required the scheme not to impact the noise or visual aspect of the standing stones. Potential Religious Dialog with Cadw to made regarding Standing stones. 3 3 Programme and Design Costs Design, Construction Geometric design been revised due to change of depth of 37 5 15 Potential for change due to challenges, Drainage design 3 Programme and Design Costs Design construction Review for roundabout at Shell Island Junction, ask requested my Assessment to be carried out for design justification for roundabout. Traffic counters 12 Programme and Design Costs Design 3 PM and AM. information for Shell Island. Traffic information feed into the Environmental statement. New requirement for Traffic information - changes in requirement. Programme and Design Costs 3 3 9 Design prediction for traffic for 5, 10 etc. years. Data provided to Acadis Bat mitigation from Snowdonia National Park. Introduction of new 3 3 Requirment from Snowdonia National Park. Programme and Design Costs Design Bat roust. Bat been discovered in the old aquarium 9 3 3 41 Schedule monument in Llanbeder Programme and Design Costs Design N BCIS announcement that Tender Price set to rise 28% over the next five 5 15 3 Include allowance in Risk Allowance, for estimate for future construction. years according to RICS .New work output in the UK construction industry Cost and Programme Construction s forecast to grow by a fifth over the next five years. BCIS predicts it will 43 Estimate risk Cost and programme Construction. 2 5 10 10 44 Contractor Bankruptcy Cost and Programme 2 5 Cost Consultancy have access to Duns information Construction Ensure contractor undertakes financial checks as part of their sub-contractor tender process. Cost and Programme 45 Sub-Contractor Bankruptcy 3 Construction onsider inclusion of performance bond and evaluate wither the contractor has bought the job. 5 15 Local Weather conditions Cost and Programme Construction 3 47 Variations in Construction Period 3 3 9 Cost and Programme Construction 48 Major Injury / Fatality Cost and Programme 2 5 10 Contractor H&S history to be considered. Designer to highlight risk. Construction Landscaping design to be carried out Additional Planting and Landscaping 3 3 9 Cost and Programme Construction 2 50 Failure to manage materials Cost and Programme 3 6 Monitor payments and procurement procedures. Construction

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PROJECT RISK REGISTER Ref Risk Description	Impact	Phase of impact	Probability	Impact	Matrix Score	Mitigation	Key Action	Status Closed (Y/N)	Ownership
51 Failure to control subcontract costs	Cost and Programme	Construction	4	2	X	Ensure that monitoring levels on site are adequate to ensure that all materials allocated to the site are required to provide works information.		N	
52 Failure to control resources level	Cost and Programme	Construction	4	2	X	Ensure that monitoring levels on site are adequate to ensure that all materials allocated to the site are required to provide works information.		N	