Title:	
Application for Departure from Standard (DfS)	Issue: V1 SEPT 2023

This form shall be completed by the WCS Project Manager for both internally designed and Developer designed schemes. The purpose is to identify and record where a unique or specific situation with a project requires a non-standard level of design to be implemented, with an assessment of why and the associated risks and benefits. To be used in conjunction with the Departure from Standard procedure contained with the Local Operating Procedures (LOPs (Sect 9.7.4.5 Departure from Standards)

Scheme Title:	M65 Terminus
Location:	M65 Terminus, Preston PR5 6BD
Design Specialism:	Highways

1) Project [Details		
Description	The proposed development at Lancashire Central employment, retail, leisure, health and residential u infrastructure, internal highway layout and pedestri The M65 terminus roundabout is to be modified to the proposed Lancashire Central development. Ar added to the M65 terminus on the western side tak Junction 29 separately, and the roundabout is to b WSP-XX-DR-0004 rev P07 for details. The M65 terminus roundabout adjacent to the site M65. The M65 terminus is currently a two-arm rou	includes a mix of use, with associat ian and cycle infra provide a safe an additional separ- king traffic from th ecome signalised boundary is at the	land uses including ed parking, green astructure provision. d suitable access to ated arm is to be e M65 and M6 . See drawing 84465- e western extent of the M65 as the eastern
	arm and the link between the M65 and the A6 / A5 There are two circulating lanes, however traversing prohibited, with no entry to vehicles between the e entrance from the link from the A6.	82 roundabout as g the northern circ xit onto the link to	the northern arm. culating carriageway is the A6, and the
	carriageways of the M65. Access and egress to ar site is from the roundabout with the entrance locate M65 and the exit arm of the M65.	den the eastboun of from the DVSA ed between the e	d and westbound Enforcement check ntrance arm of the
Road No:	M65	Category:	Road Layout
Traffic Flows	Observed In 2016, the recorded turn count at the M65 terminus roundabout was 4,487 AM peak and 4,167 PM peak.	NMU flows	<u>N/A</u>



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	2037 With Development (PCU) Lancashire Central Weekday PM Peak Hour: 16:30-17 174 2262 114 2262 144 2262 155 Access The AM and PM traffic flows used in the 2 with development LinSig modelling for thi junction is as per the below; AM PEAK M65 east approach (from M65) – 2,136 F M65 east approach (from M65) – 1,183 PC PM PEAK M65 east approach (from M65) – 1,030 F M65 east approach (from M65) – 1,030 F M65 east approach (from M65) – 1,030 F	2037 5 PCU U CU	
Design	The existing speed limit on the M65 west	oound is 70mph on the a	oproach to the area,
speed and	falling to 50mph just prior to the merge be	tween M65 westbound ti	affic and traffic
speed limit	approaching from the M6 northbound and	M6 Junction 29 roundab	out.
	As part of the proposed scheme, the externapproximately 350m prior to the merge of further reduction in speed limit to 40mph The Design Speed of the M65 and M6 tra	nt of 50mph limit would b the M65 and M6 traffic. on approach of the traffic ffic has therefore been a	e extended to begin There will also be a signals. ssessed as 85kph.
Mean and 85 th	Not available at current design stage.		
Speeds			

Т	itl	e:	

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2) Departure Details

Relevant Standards affected (reference must be made to the specific & relevant paragraphs). If "Approval in Principle" documentation is used, supply document reference

Clause no.:

CD 116 Clause 3.20/3.26

CD 116 provides requirements for the geometric design of roundabouts. Section 3 relates to the main geometric design features of a roundabout and gives specific dimensions to various design aspects of a roundabout. Clause 3.20 states '*The entry path radius for an ahead movement at a 4-arm roundabout shall be determined as shown on Figure 3.20 (below).*'



Clause 3.26 states '*At normal roundabouts, the entry path radius shall not exceed 100 metres.*' This entry path radius is defined as 'a' in the figure above. The entry path radius is measured as the smallest best fit circular curve over a distance of 25m occurring along the approach entry path in the vicinity of the give way line, but not more than 50m in advance of it. Appendix A of CD 116 provides more advice on constructing the entry path radius on the design proposals.

The screenshot below shows the entry path radius of the proposed approach to be 301m. This does not meet the requirements set out in Clause 3.26 and therefore a departure is required.



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Difference between star proposed design:	ndard and	The proposed design is shown on drawing 8 0004 P07.	4465-WSP-XX-DR-
		There is a site boundary of the existing DVS the scheme providing a physical constraint t adjusted.	A site to the north of hat cannot be
		This limits the space available for the M65 a have positioned as close as reasonably prace existing site boundary.	pproach which we cticable to the
		This in turn further constrains the M6 approa required to safely separate the two approach room for gantry foundations/VRS etc. There approach must be aligned as shown on the which does not comply with the standards.	ach due to the offsets nes leaving enough fore, the M6 attached drawing
		The non-compliance entry path radius could vehicle speed when entering the roundabour users less time to react when changing lane change.	potentially increase t. This gives road s or as traffic signals
Reason for Departure (c	overview):	This departure is required to facilitate the Me carriageway onto the roundabout as there is available to the north to meet the horizontal requirements set out above.	6 approach insufficient land alignment
		There is no scope to realign both the M6 and existing site constraints.	d the M65 within the
Associated Project Depa	artures:	Departure 1 – Gantry Mounted Directiona	l Signage
		The design proposal is to incorporate gantry signage on the approach to the M65 terminu does not meet the design criteria defined ab separated carriageways the gantries would s running lanes. A departure from standard is compliant gantry mounted signs.	mounted directional is roundabout. This ove as the span only have two required for non-
Other options considere	d:	There is a separate design option of this sch of a merged approach to the roundabout fro This omits any confusion as the M6 / M65 tra the roundabout, where it follows the same a signage.	neme which consists m the M65 and M6. affic merges prior to dvanced directional
		The proposed alternative drawing arrangem drawing number 84465-WSP-XX-DR-0019 F	ent is shown on 204.
		This option is being progressed in parallel to	this design option.

3) Justification (Positive and N	legative Impacts and Risk)
Safety	Due to the land available is it not possible to increase the entry path deflection to meet the design criteria. The site constraints

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	do not allow the carriageways to be realign required standards.	ed to meet the
	A further reduction in speed limit from 50m proposed approximately 150m from the sto give road users more time to anticipate and signals.	ph to 40mph is p lines. This is to I react to the traffic
	As a result of this the speed limit of the appreduced to 40mph and the junction is to be encouraged reduced speed on approach. T gantry mounted.	proach has been signalised to further he signals will be
	A stage 1 road safety audit has been received comments received related to the scheme's marking strategy. The addendum to the road received 23/07/23 and the design drawing 004) has been updated to incorporate the straised in the audit report.	ved and the s signage and road ad safety audit was (84465-WSP-XX-DR safety concerns
Congestion/delay	The proposed layout of the M65 terminus h both LinSig and VISSIM modelling software peak hours with the proposed development assessment year of 2037.	as been tested using e for the AM and PM t traffic and a future
	Traffic modelling suggests that with the development the proposed scheme, there is a forecast q approximately 70–110m on each of the sep on the M65 arm (eastern approach), in the approximately 60-70m on the eastern appr- peak periods.	velopment traffic and ueue of parated approaches AM and paches in the PM
Environmental/Sustainability	N/A	
Cost saving or benefit for departure: (Capital and Whole Cost/Value)	e life N/A	
Accessibility	N/A	
Integration	N/A	
Structural	N/A	
Network Resilience & Maintenance	N/A	

4) Compensatory Measures	
Included Measures	Advanced signage details can be found on drawing 84465-WSP- XX-DR-0004 rev P07.

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Rejected Options

N/A

List of Attachments	GA / Visit P07.	oility spla	ays show	wn on di	awing 8	4465-W	SP-XX-D	DR-0004
Consultations	Stage 1 R	SA, app	pended t	o depart	ure appl	ication.		
Other Information	Transport	Assess	ment.					
	Accident data below:							
	(Table 36)) - Only	one slig	nt collisio	on has o	ccurred	at this ju	inction in
	Table 36: Se	verity & Ye	ar of Collisio	ISION dat	ta: on 10 M65 F	Roundabout		
	Table 36: Se Severity	verity & Ye 2016	ar of Collisio	ISION dat on on Junctio 2018	(a: on 10 M65 F 2019	Roundabout 2020	2021	Total
	Table 38: Se Severity Slight	verity & Ye 2016 0	ar of Collisio 2017 0	ISION dat on on Junctio 2018 0	(a: on 10 M65 F 2019 1	Roundabout 2020 0	2021 0	Total 1
	Table 38: Se Severity Slight Serious	verity & Ye 2016 0 0	ar of Collisio	ISION da on on Juncti 2018 0 0	(a: on 10 M65 F 2019 1 0	Roundabout 2020 0 0	2021 0 0	Total 1 0
	Table 38: Se Severity Slight Serious Fatal	2016 0 0 0	ar of Collisio 2017 0 0	2018 0 0 0 0	ta: on 10 M65 F 2019 1 0 0	Roundabout 2020 0 0 0	2021 0 0	Total 1 0 0
	Table 38: Se Severity Slight Serious Fatal Total	2016 0 0 0	ar of Collisic 2017 0 0 0 0	ISION dat on on Juncti 2018 0 0 0 0	IA: on 10 M65 F 2019 1 0 0 1	Roundabout 2020 0 0 0 0	2021 0 0 0	Total 1 0 0

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6) Design Organisation's concluding remarks

To conclude the above, the departure application has been submitted due to the proposal to put gantries over 2No carriageways with two running lanes. CD 146 Clause 3.9 states gantries shall be proposed over carriageways with 3 or more lanes. The gantries have been proposed to reduce driver confusion and improve destination clarity. The omission of the gantries would create confusion with the Advanced Directional Signage and which carriageway they relate to resulting in driver hesitation and late braking.