Appendix 5.5
Advance Construction Plus Reduced Main Construction Programmes

N2 Slane Bypass Project - Proposed Advance Works Contract Outline Programme

Activity	Duration	Dependencies	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10
Site Controls												
Set up Advance Works Compound and Access Routes	2 months											
Project Systems/Commuications Set up	1 month											
Environmental Operating Plan	2 months											
Archaeological Investigations	1 month											
Ecological Surveys	1 month											
Invasive Species Removal	1 month											
Set up Water Quality Monitoring System	1 month											
Water Quality Monitoring	1 month											
Set up Sediment and Erosion Control Measures	1 month											
Works North of River Boyne												
Permanent Access for Landowner 118/119	2 month	In advance of access/haul road										
Fencing	1 month											
Site Access/Haul Route	2 months											
Site Clearence, tree and hedge removal	1 month	Seasonal Restrictions, eg bird nesting										
Pre-earthworks drainage including Interceptor ditches and Attenuation Ponds 3 and 4	4 months											
Petrol Interceptors and Grit Vortices	2 months											
Culverts	1 month	May be seasonal constraints										
Construct Sediment fence and run-off collection trench around proposed works at the northern end of the Boyne bridge	1 month											
Demobilise	1 month											
River Boyne Bridge	1 month											
Set up Advance Works Compound	2 months										+	
Traffic Management Plan and Approval	2 months										 	
Construct Sediment fencing and run-off control trnches	2 1110111113										+	
Construct Temporary site access to Attenuation Pond 2	1 month										 	
Construct Attenuation Pond 2 incl. PI, Grit Seperator and outfalls	3 months										+	
Design and Construct Temporary bridge over canal	4 months										+	
Complete temporary access to facilitate bridge construction on South side of the river	2 months										+	
Fence off the site	1 month										+	
Works to South of River Boyne	1 month											
Set up site accesses and Temporary traffic management	1 month										+	
Fencing	1 month											
Site Clearence, tree and hedge removal	1 month											
Pre-earthworks drainage including Interceptor ditches and Attenuation Pond 1	2 months											
Diversion of ESB overhead power line	2 months											
Petrol Interceptors and Grit Vortices	1 month											
Culverts	1 month											

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N2 Slane Bypass Project - Reduced Outline Construction Programme after Advance Works Contract

								Month Mon	th Mont	th Month	Month Mor	onth Month Month M	onth Month Mont	h Month Mont	h Month Mo	onth Month	Month Month	Month Month Month	Month	Month I	Month
Activity	Duration Dependencies	Month 1 Month	2 Month 3	Month 4 Monti	h 5 Month 6	Month 7 Mont	th 8 Month 9	10 11	12	13	14 15	5 16 17 18	19 20	21 22	23 24	25	26 27	28 29 30	31	32	33
Site Controls Set up Main Site Compound and Access Routes	2 months									_					+						
Project Systems/Commuications Set up	1 month					 									 						
Environmental Operating Plan	2 months																				
Archaeological Investigations	1 month			Platforms	; —																
Ecological Surveys Invasive Species Removal	1 month 1 month			WP3 and		+ +			+	+					+	-					-
Set up Water Quality Monitoring System	1 month			WP4																	
Water Quality Monitoring	1 month			WP4																	
Set up Sediment and Erosion Control Measures	1 month				_				_						+						
Works from N51 to River Boyne						 			_	_		Girders			+	-					-
Construct Temporary Working Platform and sheet pile coffer dam for Bridge Piers	2 months																				
												in Place									.
Construct Earthworks Fill - benched into slope for North abutment Working Platform - provide erosion control geotextile/mat to earthwork fill	2 months																				
Construct Bridge Bored Pile Foundations	5 months																				
Construct Bridge RC Pad Foundations, piers and Abutments	6 months																				
Farm Accommodation Bridge #3	7 months								_						+						$\overline{}$
Topsoil Strip, including temporary drainage measures	5 months Will be done in sections to control management of run-off		+												+				_		$\overline{}$
	Will be done in sections to control management of run-off. Assumed																				
Earthworks, including temporary run-off control measures	7 months programme will include disposal of the majority of this cutting.																				
Capping and Erosion control (vegetation) on side slopes	7 months Will be done in sections to control management of run-off																				
Drainage	6 months Will be done in sections to control management of run-off																				
Services	3 months																				
Kerbs	3 months		$\perp = \Box$																		
Footways and Verges	4 months		+											+	+	-			+		\vdash
Road Restraint systems Pavement, including roundabouts	1 month 3 months		+			+ + -		 	_	_					+	-+		 	+	 	$\overline{}$
Signs and Road Markings	1 month		+ +			 			_			 			+ +				1		-
Finishings	1 month																				
Domana Fasthuarka akus Fastharanasa afasa kanasa afasa kanasa afasa kanasa afasa kanasa afasa kanasa afasa kan	Dependent on completion of earthworks, capping and side slope		1																		
Remome Earthworks plug F and progression of earthworks to River Boyne Bridge Drainage on section north of River Boyne bridge	2 months vegetation		+ - 1	_	-	+ + -		 	_				 	 	++-	-		 	+ -	 	$\overline{}$
Kerb and footway on section north of River Boyne bridge	1 month																				
Road Restraint systems on section north of River Boyne bridge	1 month																				
Pavement on section north of River Boyne bridge	1 month		+		_				+						+				_		
Signs and road markings on section north of River Boyne bridge	1 month					+ +			_	_				 	+ +						
Works from N51 to N2 North Tie-in																					
Topsoil Strip, including temporary drainage measures	4 months Will be done in sections to control management of run-off																				
Earthworks including temporary run off control measures	Will be done in sections to control management of run-off. Assumed 4 months majority of earthworks will be cut to fill operations																				
Earthworks, including temporary run-off control measures Capping and Erosion control (vegetation) on side slopes	4 months Will be done in sections to control management of run-off		+ +																		
Drainage	4 months Will be done in sections to control management of run-off																				
Services	3 months																				
Kerbs	3 months														\perp						
Footways and Verges	4 months 1 month		+						_	_					+						$\overline{}$
Road Restraint systems Pavement, including roundabouts	3 months					 				_											
Signs and Road Markings	1 month																				
Finishings	1 month																				
Temporary Traffic Management for on road works and tie-ins	2 months 2 months								_												
Roadworks at tie-ins Public Lighting	1 month									_											
Landscaping	2 months		Plat	forms																	
			WP	L and	_				_						\perp						
River Boyne Bridge Set up Satellite Compound	2 months		WP		+				_	_					 						-
Traffic Management Plan and Approval	2 months		***		1																
Construct Hard Standings at south abutment and in flood plain area	3 months Attenuation Pond 2 to be operational											Girder									
Construct Temporary Sheet Pile to enable piling	1 month												1 1								
Construct Bridge Bored Pile Foundations	5 months											in Plac	2		\perp						$\overline{}$
Construct Bridge RC Pad Foundations, piers and Abutments Off-site Prefabrication of Steel Girders	6 months 10 months Independent of site works														 						-
Set up site for Erection of Steel Girders, including specialist Cranes and install	The state of the s															Remo	val of				=
bridge bearing plates	1 month		\perp			\perp											rm and				\square
Lift in girders	3 months		+			+		\vdash	-						+				+		\vdash
Remove section of access track and construct new arrangement Reinforced Concrete Deck Construction (utilising precast elements)	1 month 5 months		+ - 1	-	-	 		 	_							temp		Cuel Brill		 	-
Apply waterproofing, road surfacing, parapets, finishes	2 months															acces		Cycle Bridge			
Construct Permanent Bridge Maintenance Access arrangements	1 month		$\perp \Box$			\vdash												and Link	\Box	\Box	
Remove hardstandings and restore areas	1 month 2 month		+		-	+			_					+	++						$\overline{}$
Remove access tracks and temporary access bridge and reinstate Pre-fabricate Cycle Bridge Off-site	6 months		+ +			 			_												-
Construction of Ped/cyc Link and Canal Bridge	3 months																				
Realignment of the Tow Path	1 month		\perp												\perp						$\overline{}$
Dismantle Satellite Offices	1 month		+			+ +			_			- - - 		+	+	-		+ + + -			\vdash
Works to South of River Boyne			+ 1			 			_												-
Set up site accesses and Temporary traffic management	1 month																				
Archaeological Investigations	1 month					\perp								\perp		\Box				\Box	\square
Ecological Surveys Invasive Species Removal	1 month 1 month				-	+ +		 		_	\vdash	- - -		+	+	+		+ + + -	+	 	$\overline{}$
Set up Water Quality Monitoring System	1 month								_												
Water Quality Monitoring	1 month																				
Set up Sediment and Erosion Control Measures	1 month							<u> </u>	-	_		-			+	-		 	+	\vdash	$\overline{}$
Farm Accommodation Bridge #2 Topsoil Strip, including temporary drainage measures	7 months 10 months Will be done in sections to control management of run-off									_		 	 	+ +	+	-+		 	+	 	-
Topsoil Strip, including temporary drainage measures Earthworks, including temporary drainage measures	10 months Will be done in sections to control management of run-off											- - - 			+ +	\dashv		 	+ - 1		-
Construct Temporary Run-off Holding Pond	1 month Necessary due to Rossnaree Road Earthworks Plug											 							+ -		-
Capping and Erosion control (vegetation) on side slopes	10 months Will be done in sections to control management of run-off														+ +						-
Drainage	10 months																				
Services	2 months		+												\perp	-		 		\vdash	$\overline{}$
Kerbs Footways and Verges	2 months 2 months		+			+								+	+++	-					
Footways and Verges Road Restraint systems	1 month		+			+			_							-	-	+ + + -			-
Pavement including roundabout excluding Surface course	2 months																				
	2 months Finish after earthworks plug is removed				T																
Signs and Road Markings						-			-	_									•		

N2 Slane Bypass Project - Reduced Outline Construction Programme after Advance Works Contract

												Month	Monti	h Month	Month	Month	Month	Month																	
Activity	Duration	Dependencies	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	9 10	11	12	13	14	15	16		18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Finishings	2 months	Finish after earthworks plug is removed																																	T
Temporary Traffic Management for on road works and tie-ins	2 months																																		7
Roadworks at tie-ins	2 months																																		7
Public Lighting	1 month																																		
Landscaping	2 months																																		
Traffic Management Design and Approval to close Rossnaree Road	2 months																																		
Remove Earthworks plug A and progression of earthworks to River Boyne Bridge	4 months	Also dependent on relocating access to WP2																																	
Capping and Erosion control (vegetation) on side slopes	4 months																																		1
Drainage on section south of River Boyne bridge	4 months																																		1
Kerb and footway on section south of River Boyne bridge	2 months																																		1
Road Restraint systems on section south of River Boyne bridge	1 month																																		
Pavement on section south of River Boyne bridge	2 months																																		
Construct Rosnaree Overbridge	7 months																																		
Complete Mainline Roadworks under Rossnaree Road	4 months																																		
N51 Works																																			
Temporary Traffic Management Plan for on road works	3 months																																		
Implement Rolling Traffic Management Control																																			
Construct Roadworks	10 months	Work will be done in sections																																	
Construct Footway	10 months	Work will be done in sections																																	
Construct Public Lighting	9 months	Work will be done in sections																																	
Construct Gateway	1 month																																		
Construct signs and Lines	1 month																																		