

A46 Coventry Junctions (Walsgrave) Scheme number: TR010066

6.3 Environmental Statement Appendices Appendix 11.5 Construction Noise Assessment

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Planning Act 2008

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A46 Coventry Junctions (Walsgrave)
Development Consent Order 202[x]

ENVIRONMENTAL STATEMENT APPENDICES
Appendix 11.5 Construction Noise
Assessment

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1. Construction noise assessment

1.1. Construction phases used to inform the assessment

1.1.1. The Principal Contractor has provided typical construction plant for each construction activity, within each construction phase. The construction phases are described in Table 2-2 of Environmental Statement (ES) Chapter 2 (The Scheme) (**TR010066/APP/6.1**). The most relevant activities in terms of potential noise impact during each phase are presented in Table 1-1.

1.1.2. Construction plant assumptions are presented in Annex A of this document.

Table 1-1 : Outline construction phases and works areas

Construction phase	Works area	Indicative main construction activities & other notes (refer to Annex A for individual plant items)
Pre-commencement works	A46	Create construction access areas (night works)
	B4082	Create construction access area (night works)
	Site-wide	Vegetation clearance and installation of temporary/permanent boundary fencing
	Compound	Topsoil strip, cut and fill, capping layer, temporary drainage, ducting, sub-base and surfacing.
Phase 1	North-west	Site clearance, topsoil strip, cut and fill, capping layer, filter drainage, drainage removal, ducting, sub-base, kerbs, surfacing, vehicle restraint system (VRS) barrier, lining, lighting installation and signage.
	South-west	Site clearance, topsoil strip, cut and fill, install capping layer, topsoil verges, piling, capping beam, facing, filter drainage, ducting and drainage removal.
	Farm access track	Reduce dig and install sub-base.
	Attenuation pond 1 & 2, water quality pond	Fencing, excavation, drainage, lining and soiling
	Carriageway slip roads	Sub-base, kerbs, central reserve (CR) barrier, surfacing (day and night), vehicle restraint system (VRS) barrier, lining, ramps to existing
	Verge works	Lighting installation, signage
	Roundabout west	Sub-base, kerbs, surfacing, VRS barrier, lining
	North-east	Site clearance, topsoil strip, cut and fill, capping layer, topsoil verges, filter drainage, drainage removal, ducting
	South-east	Site clearance, topsoil strip, cut and fill, capping layer, topsoil verges, filter drainage, drainage removal, ducting
	Roundabout east	Sub-base, kerbs, surfacing, VRS barrier, lining

Construction phase	Works area	Indicative main construction activities & other notes (refer to Annex A for individual plant items)
Phase 1a	A46	Install narrow lanes (northbound and southbound)
	Bridge deck	Hot rolled asphalt (HRA) protection layer, stone mastic asphalt (SMA) binder, HRA surface course, base, binder course, surface course
	West northbound carriageway	Excavating existing carriageway, capping, drainage, drainage removal, concrete barrier, sub-base, surfacing, lighting & signs
	East southbound carriageway	Excavating existing carriageway, capping, drainage, drainage removal, concrete barrier, sub-base, surfacing, lighting and signs
	East and west reinforced earth wall (REW)	REW foundation, REW drainage, install geogrids & panels, construct bank seat, install coping
	Bridge works off-line	Prepare area to construct bridge off-line, remove ramps and lay down area, topsoil area
	Deck construction	Place beams on tressels, install shutters, fix reinforcement, edge shutters and stop end, concrete, strip shutter
	North and south parapet	Set up edge shutters and fix internal, concrete parapets, strip shutter
	Parapet fencing	Install north parapet fence, strip north parapet falsework, install south parapet fence, drive bridge & lift (nights), waterproof to deck, regulating, kerbing, surfacing
	Temporary widening southbound RA	Reduce dig, install temporary drainage, sub-base and trim, temporary surfacing,
Phase 2	B4082	Sub-base, kerbs, surfacing, VRS barrier, lining, tie in works (day and night)
	Pedestrian crossing (nights)	Excavate, ducting, kerbing paving, pedestrian guardrail, surfacing, install signals
Phase 3	A46 northbound	Traffic management switch
	Northbound carriageway	Excavation existing carriageway, capping, sub base, drainage, drainage removal, concrete barrier, surfacing, lighting and signs
Phase 4	A46 southbound	Traffic management switch
	Southbound carriageway	Site clearance, top soil strip, excavation, capping, sub base, drainage, drainage removal, concrete barrier, surfacing, lighting and signs
Phase 5	A46 northbound and southbound	Traffic management switch
	B4082 roundabout and CR	Reduce dig, place compact sub base, drainage, drainage removal, construct CR (nights), surfacing
Phase 5	A46 northbound	Traffic management switch

Construction phase	Works area	Indicative main construction activities & other notes (refer to Annex A for individual plant items)
	B4082 roundabout & northbound carriageway	Reduce dig, subbase, drainage, drainage removal, surfacing
Phase 6	A46 northbound	TM switch
	A46 southbound	Remove temporary widening, remove temporary drainage, CR constructed, final surfacing (nights), safety barrier, topsoil verge, signage & lighting, remove all tm (nights)

1.2. Noise sensitive receptors

- 1.2.1. A summary of a representative sample of the closest receptors to the construction works used in this assessment and their associated LOAEL (baseline noise level) and SOAEL levels are presented in Annex B and in ES Figure 11.1 (Noise Location Plan) (**TR010066/APP/6.2**). The LOAEL and SOAEL levels have been calculated from the 'Do-Minimum Opening Year' noise model, using Department of Transport (DfT) TAG Unit A3¹ guidance and Transport Research Laboratory (TRL) Method 3 to convert $L_{A10,18h}$ to $L_{Aeq,16hour}$ and L_{night} .
- 1.2.2. The resultant magnitude of impact has been calculated fully in accordance with BS 5225-1:2009+A1:2014 including Note 2 of Table E.1 thereof.

1.3. Predicted construction noise levels

- 1.3.1. Table 1-2 sets out the predicted noise levels at receptors where significant noise effects are predicted occur due to construction works, based on the day within each phase of the indicated programme with the highest cumulative noise level over the works areas.
- 1.3.2. Magnitude of impact has been determined based on Table 3.12 of DMRB LA 111. The relevant LOAEL and SOAEL thresholds are set out in Table 1-2.

Table 1-2 : Predicted construction noise levels at sensitive receptors (unmitigated)

Phase	Time period	Area/activity	Receptor	Predicted facade noise $L_{Aeq,T}$ levels (dB, integer rounded)	Magnitude of impact (without mitigation)
Enabling	Daytime	Site wide: clear trees and shrubs, compound, topsoil strip	No significant effects predicted	-	-

¹ TAG Unit A3 Environmental Impact Appraisal, 2024, Department for Transport

Phase	Time period	Area/activity	Receptor	Predicted facade noise $L_{Aeq,T}$ levels (dB, integer rounded)	Magnitude of impact (without mitigation)
	Night-time	Create construction accesses off A46 and B4082	R52 R153 R34 R36 R37 R38 R39 R45 R47 R50 R51 R54 R56 R57 R60 R67 R68 R71 R75 R89 R90	53 60 52 52 51 52 51 51 51 52 50 51 49 52 51 52 51 50 50 49 49	Major Major Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate
Phase 1 / Phase 1a	Daytime	North-west: Sub base South-west capping layer, facing, filter drainage, drainage removal, Ducting Farm access track: reduce dig Pond 1: excavation Pond 2: excavation North-east: capping layer, filter drainage, drainage removal, ducting South-east: Drainage Removal, Ducting West northbound carriageway: excavation of existing carriageway capping, drainage, drainage removal East southbound carriageway: excavation of existing carriageway, capping, drainage, drainage removal West reinforced earth wall (REW) construction: foundation	R153	72	Moderate

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Phase	Time period	Area/activity	Receptor	Predicted facade noise $L_{Aeq,T}$ levels (dB, integer rounded)	Magnitude of impact (without mitigation)
			R138 R145 R153	50 52 50	Moderate Moderate Moderate
Phase 2	Daytime	Northbound carriageway: Excavation, capping, drainage, drainage removal	No significant effects predicted	-	-
	Night-time	A46 northbound: move northbound traffic over	No significant effects predicted	-	-
Phase 3	Daytime	Sub base, drainage, drainage removal	No significant effects predicted	-	-
	Night-time	A46 southbound: move southbound traffic over	No significant effects predicted	-	-
Phase 4	Daytime	Reduce dig, place compact sub base, drainage, drainage removal, surfacing	No significant effects predicted	-	-
	Night-time	Construct central reservation	R32 R52 R68 R71 R75 R153	58 53 49 53 52 57	Moderate Moderate Moderate Moderate Moderate Moderate
Phase 5	Daytime	Reduce dig, place compact sub base, drainage, drainage removal, surfacing	R29 R30 R31 R40 R52 R73 R74	68 67 67 66 67 67 67	Moderate Moderate Moderate Moderate Moderate Moderate Moderate
	Night-time	A46 northbound: traffic management switch northbound	No significant effects predicted	-	-
Phase 6	Daytime	Remove temporary widening, remove temporary drainage	No significant effects predicted	-	-
	Night-time	Final surfacing	R29 R30 R31 R40 R66 R67 R69 R71 R73 R74 R75 R119 R126 R153	56 59 57 57 52 54 52 57 57 57 57 56 58 57 57	Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate

Annex A Construction plant assumptions

Annex A Construction plant assumptions

Task/Sub-Task	Plant And Equipment	No. Of Plant	% On Time	BS 5228 Ref.	SWL, Db(A)
Pre-Commencement Works					
Pre-Commencement Works: Create Construction Access Off A46 Laybys	Excavator	2	60%	C.5 #18	108
	Wagons	8	5%	C.2 #34	108
	JCB With Pecker	1	25%	C.1 #2	120
	Breaker	1	6%	C.1 #7	121
	120 Roller	1	25%	C.2 #40	101
	140 Roller	1	25%	C.2 #39	102
	Pneumatic Tyre Roller	1	12%	C.2 #37	107
	Dumper	1	80%	C.2 #32	102
Pre-Commencement Works: Create Construction Access Off B4082	Excavator	2	60%	C.5 #18	108
	Wagons	8	5%	C.2 #34	108
	JCB With Pecker	1	25%	C.1 #2	120
	Breaker	1	6%	C.1 #7	121
	120 Roller	1	25%	C.2 #40	101
	140 Roller	1	25%	C.2 #39	102
	Pneumatic Tyre Roller	1	12%	C.2 #37	107
	Dumper	1	80%	C.2 #32	102
Pre-Commencement Works: Site Clearance Trees & Shrubs Out Of Season 1	Excavator	2	80%	C.5 #18	108
	Chipper	2	40%	-	111
	Flail	1	40%	C.2 #5	104
	Tracked Mulching Machine	1	50%	C.2 #3	106
	Strimmer	2	25%	-	110
	Flatbed	1	5%	C.2 #26	107
	Chainsaw	2	20%	-	116
Pre-Commencement Works: Site Clear Trees & Shrubs Out Of Season 2	Excavator	2	80%	C.5 #18	108
	Chipper	2	40%	-	111
	Flail	1	40%	C.2 #5	104
	Tracked Mulching Machine	1	50%	C.2 #3	106
	Strimmer	2	25%	-	110
	Flatbed	1	5%	C.2 #26	107
	Chainsaw	2	20%	-	116
Pre-Commencement Works: Site Clear Trees & Shrubs Out Of Season Remaining Areas 1	Excavator	2	80%	C.5 #18	108
	Chipper	2	40%	-	111
	Flail	1	40%	C.2 #5	104
	Tracked Mulching Machine	1	50%	C.2 #3	106
	Strimmer	2	25%	-	110
	Flatbed	1	5%	C.2 #26	107
	Chainsaw	2	20%	-	116
Pre-Commencement Works: Site Clear Trees & Shrubs Out Of Season Remaining Areas 2	Excavator	2	80%	C.5 #18	108
	Chipper	2	40%	-	111
	Flail	1	40%	C.2 #5	104
	Tracked Mulching Machine	1	50%	C.2 #3	106
	Strimmer	2	25%	-	110

Task/Sub-Task	Plant And Equipment	No. Of Plant	% On Time	BS 5228 Ref.	SWL, Db(A)
	Flatbed	1	5%	C.2 #26	107
	Chainsaw	2	20%	-	116
Pre-Commencement Works: Temp / Perm Boundary Fencing	Post Knocker	1	50%	C.2 #6	91
	Nail Gun	2	80%	C.4 #95	101
	Dumper	1	80%	C.2 #32	102
	Excavator	1	80%	C.5 #18	108
	Flatbed	1	5%	C.2 #26	107
Pre-Commencement Works: Compound - Topsoil Strip	Excavator	1	80%	C.5 #18	108
	Large Breaker	1	15%	C.1 #9	118
	ADT	1	80%	C.1 #11	108
Pre-Commencement Works: Compound - Cut And Fill	Excavator	2	80%	C.5 #18	108
	Large Breaker	1	20%	C.1 #9	118
	ADT	1	75%	C.1 #11	108
	Vibrating Roller	2	40%	C.5 #22	109
	D6 Dozer	1	80%	C.2 #12	109
	Wagon	8	30%	C.2 #34	108
Pre-Commencement Works: Compound - Capping Layer	Excavator	2	80%	C.5 #18	108
	Large Breaker	1	20%	C.1 #9	118
	ADT	1	75%	C.1 #11	108
	Vibrating Roller	2	40%	C.5 #22	109
	D6 Dozer	1	80%	C.2 #12	109
	Wagons	8	30%	C.2 #34	108
Pre-Commencement Works: Compound - Temporary Drainage	Excavator	2	80%	C.5 #18	108
	Excavator	2	80%	C.5 #18	108
	Rammax	1	40%	C.5 #19	108
	Dumper	1	80%	C.2 #32	102
	Pump And Generator	1	100%	C.4 #88	96
	Wagons	3	30%	C.2 #34	108
Pre-Commencement Works: Compound - Ducting	Excavator	1	80%	C.5 #18	108
	Rammax	1	40%	C.5 #19	108
	Dumper	1	80%	C.2 #32	102
Pre-Commencement Works: Compound - Sub Base	Excavator	2	80%	C.5 #18	108
	ADT	1	75%	C.1 #11	108
	Vibrating Roller	2	40%	C.5 #22	109
	D6 Dozer	2	80%	C.2 #12	109
	Wagon	8	30%	C.2 #34	108
Pre-Commencement Works: Compound - Surfacing	Road Paver	1	60%	C.5 #31	105
	Wagons	6	5%	C.2 #34	108
	JCB With Pecker	1	25%	C.1 #2	120
	Breaker	1	6%	C.1 #7	121
	120 Roller	1	25%	C.2 #40	101
	140 Roller	1	25%	C.2 #39	102
	Pneumatic Tyre Roller	1	12%	C.2 #37	107
	Dumper	1	80%	C.2 #32	102
Phase 1					
Phase 1: North-West - Site Clearance	Excavator	2	80%	C.5 #18	108
	Chipper	2	40%	-	111
	Flail	1	40%	C.2 #5	104
	Tracked Mulching Machine	1	50%	C.2 #3	106

Task/Sub-Task	Plant And Equipment	No. Of Plant	% On Time	BS 5228 Ref.	SWL, Db(A)
	Strimmer	2	25%	-	110
	Flatbed	1	5%	C.2 #26	107
	Chainsaw	2	20%	0	116
Phase 1: North-West - Topsoil Strip	Excavator	1	80%	C.5 #18	108
	Large Breaker	1	15%	C.1 #9	118
	ADT	1	80%	C.1 #11	108
Phase 1: North-West - Cut And Fill	Excavator	2	80%	C.5 #18	108
	Large Breaker	1	20%	C.1 #9	118
	ADT	1	75%	C.1 #11	108
	Vibrating Roller	2	40%	C.5 #22	109
	D6 Dozer	1	80%	C.2 #12	109
	Wagon	8	30%	C.2 #34	108
Phase 1: North-West - Capping Layer	Excavator	2	80%	C.5 #18	108
	Large Breaker	1	20%	C.1 #9	118
	ADT	1	75%	C.1 #11	108
	Vibrating Roller	2	40%	C.5 #22	109
	D6 Dozer	1	80%	C.2 #12	109
	Wagons	8	30%	C.2 #34	108
Phase 1: North-West - Filter Drainage	Excavator	2	80%	C.5 #18	108
	Excavator	2	80%	C.5 #18	108
	Rammax	1	40%	C.5 #19	108
	Dumper	1	80%	C.2 #32	102
	Pump And Generator	1	100%	C.4 #88	96
	Wagons	3	30%	C.2 #34	108
Phase 1: North-West - Drainage Removal	Excavator	2	80%	C.5 #18	108
	Excavator	2	80%	C.5 #18	108
	Rammax	1	40%	C.5 #19	108
	Dumper	1	80%	C.2 #32	102
	Pump And Generator	1	100%	C.4 #88	96
	Wagons	3	30%	C.2 #34	108
Phase 1: North-West - Ducting	Excavator	1	80%	C.5 #18	108
	Rammax	1	40%	C.5 #19	108
	Dumper	1	80%	C.2 #32	102
Phase 1: North-West - Sub Base	Excavator	2	80%	C.5 #18	108
	ADT	1	75%	C.1 #11	108
	Vibrating Roller	2	40%	C.5 #22	109
	D6 Dozer	2	80%	C.2 #12	109
	Wagon	8	30%	C.2 #34	108
Phase 1: North-West - Kerbs	Excavator With Vacuum Lift	1	40%	-	113
	Dumper	1	60%	C.2 #32	102
	Concrete Wagon	1	5%	C.4 #20	108
Phase 1: North-West - Surfacing	Road Paver	1	60%	C.5 #31	105
	Wagons	6	5%	C.2 #34	108
	JCB With Pecker	1	25%	C.1 #2	120
	Breaker	1	6%	C.1 #7	121
	120 Roller	1	25%	C.2 #40	101
	140 Roller	1	25%	C.2 #39	102
	Pneumatic Tyre Roller	1	12%	C.2 #37	107

Task/Sub-Task	Plant And Equipment	No. Of Plant	% On Time	BS 5228 Ref.	SWL, Db(A)
	Dumper	1	80%	C.2 #32	102
Phase 1: North-West - VRS Barrier	Excavator	1	80%	C.5 #18	108
	Concrete Wagon	1	5%	C.4 #20	108
	Breaker	1	6%	C.1 #7	121
Phase 1: North-West - Lining	Stud Milling Wagon	1	10%	C.1 #17	112
	Line Painting Kit	1	5%	-	28
Phase 1: North-West - Lighting Installation	MEWP	1	80%	C.4 #57	95
	HIAB	1	50%	C.4 #53	105
	Coring Machine	1	40%	-	106
Phase 1: North-West - Signage	MEWP	1	80%	C.4 #57	95
	HIAB	1	50%	C.4 #53	105
	Coring Machine	1	40%	-	106
	Excavator	1	75%	C.5 #18	108
	Dumper	1	75%	C.2 #32	102
Phase 1: Open New Slip Roads As South Of A46	Traffic Management	1	100%	-	109
Phase 1: South-West - Site Clearance	Excavator	2	80%	C.5 #18	108
	Chipper	2	40%	-	111
	Flail	1	40%	C.2 #5	104
	Tracked Mulching Machine	1	50%	C.2 #3	106
	Strimmer	2	25%	-	110
	Chainsaw	2	20%	-	116
Phase 1: South-West - Topsoil Strip	Excavator	1	80%	C.5 #18	108
	Large Breaker	1	15%	C.1 #9	118
	ADT	1	80%	C.1 #11	108
Phase 1: South-West - Cut And Fill	Excavator	2	80%	C.5 #18	108
	Large Breaker	1	20%	C.1 #9	118
	ADT	1	75%	C.1 #11	108
	Vibrating Roller	2	40%	C.5 #22	109
	D6 Dozer	1	80%	C.2 #12	109
	Road Wagon	8	15%	C.6 #21	108
Phase 1: South-West - Capping Layer	Excavator	2	80%	C.5 #18	108
	Large Breaker	1	20%	C.1 #9	118
	ADT	1	75%	C.1 #11	108
	Vibrating Roller	2	40%	C.5 #22	109
	D6 Dozer	1	80%	C.2 #12	109
	Road Wagon	8	15%	C.6 #21	108
Phase 1: South-West - Topsoil Verges	D6 Dozer	3	80%	C.2 #12	109
	Excavator	1	80%	C.5 #18	108
	Wagons	4	30%	C.2 #34	108
Phase 1: South-West - Piling	Piling Rig	1	80%	C.3 #16	107
	Mobile Crane	1	80%	C.3 #28	95
Phase 1: South-West - Capping Beam	Excavator	1	80%	C.5 #18	108
	Mobile Concrete Pump	1	80%	C.4 #28	103
	Hydremer	1	75%	C.2 #33	109
	Concrete Poker	1	35%	C.4 #33	106
	Generator	1	40%	C.8 #24	87
	Concrete Wagon	1	10%	C.4 #20	108

Task/Sub-Task	Plant And Equipment	No. Of Plant	% On Time	BS 5228 Ref.	SWL, Db(A)
Phase 1: South-West - Facing	Excavator	1	80%	C.5 #18	108
Phase 1: South-West - Filter Drainage	Excavator	2	80%	C.5 #18	108
	Excavator	2	80%	C.5 #18	108
	Rammax	1	40%	C.5 #19	108
	Pump And Generator	1	100%	C.4 #88	96
	Dumper	1	80%	C.2 #32	102
	Wagons	3	30%	C.2 #34	108
Phase 1: South-West - Drainage Removal	Excavator	2	80%	C.5 #18	108
	Excavator	2	80%	C.5 #18	108
	Rammax	1	40%	C.5 #19	108
	Pump And Generator	1	100%	C.4 #88	96
	Dumper	1	80%	C.2 #32	102
	Wagons	3	30%	C.2 #34	108
Phase 1: South-West - Ducting	Excavator	1	80%	C.5 #18	108
	Rammax	1	40%	C.5 #19	108
	Dumper	1	80%	C.2 #32	102
Phase 1: Farm Access Track - Reduce Dig	Excavator	2	80%	C.5 #18	108
	Large Breaker	1	20%	C.1 #9	118
	ADT	1	75%	C.1 #11	108
	Vibrating Roller	2	40%	C.5 #22	109
	D6 Dozer	1	80%	C.2 #12	109
	Wagon	8	15%	C.2 #34	108
Phase 1: Farm Access Track - Subbase	Excavator	2	80%	C.5 #18	108
	ADT	1	75%	C.1 #11	108
	Vibrating Roller	2	40%	C.5 #22	109
	D6 Dozer	2	80%	C.2 #12	109
	Wagon	8	15%	C.2 #34	108
Phase 1: Attenuation Pond - Fencing	Post Knocker	1	50%	C.2 #6	91
	Nail Gun	2	80%	C.4 #95	101
	Dumper	1	80%	C.2 #32	102
	Excavator	1	80%	C.5 #18	108
	Flatbed	1	5%	C.2 #26	107
Phase 1: Pond 1 - Excavation	Excavator	2	80%	C.5 #18	108
	ADT	2	80%	C.1 #11	108
	Roller - Sheeps Foot	1	40%	C.2 #38	101
Phase 1: Pond 1 - Drainage	Excavator	2	80%	C.5 #18	108
	Excavator	2	80%	C.5 #18	108
	Rammax	1	40%	C.5 #19	108
	Pump And Generator	1	100%	C.4 #88	96
	Dumper	1	80%	C.2 #32	102
	Wagons	3	5%	C.2 #34	108
Phase 1: Pond 1 - Lining	Welding Gun / Welding Rig	1	40%	C.3 #31	101
Phase 1: Pond 1 - Soiling	D6 Dozer	3	80%	C.2 #12	109
	Excavator	1	80%	C.5 #18	108
	ADT	1	80%	C.1 #11	108
Phase 1: Pond 2 - Fencing	Post Knocker	1	50%	C.2 #6	91
	Nail Gun	2	80%	C.4 #95	101

Task/Sub-Task	Plant And Equipment	No. Of Plant	% On Time	BS 5228 Ref.	SWL, Db(A)
	Dumper	1	80%	C.2 #32	102
	Excavator	1	80%	C.5 #18	108
	Flatbed	1	5%	C.2 #26	107
Phase 1: Pond 2 - Excavation	Excavator	2	80%	C.5 #18	108
	ADT	2	80%	C.1 #11	108
	Roller - Sheeps Foot	1	40%	C.2 #38	101
Phase 1: Pond 2 - Drainage	Excavator	2	80%	C.5 #18	108
	Excavator	2	80%	C.5 #18	108
	Rammax	1	40%	C.5 #19	108
	Pump And Generator	1	100%	C.4 #88	96
	Dumper	1	80%	C.2 #32	102
	Wagons	3	5%	C.2 #34	108
Phase 1: Pond 2 - Lining	Welding Gun / Welding Rig	1	40%	C.3 #31	101
Phase 1: Pond 2 - Soiling	D6 Dozer	3	80%	C.2 #12	109
	Excavator	1	80%	C.5 #18	108
	ADT	1	80%	C.1 #11	108
Phase 1: WQ Pond - Fencing	Post Kicker	1	50%	C.2 #6	91
	Nail Gun	2	80%	C.4 #95	101
	Dumper	1	80%	C.2 #32	102
	Excavator	1	80%	C.5 #18	108
	Flatbed	1	5%	C.2 #26	107
Phase 1: WQ Pond - Excavation	Excavator	2	80%	C.5 #18	108
	ADT	2	80%	C.1 #11	108
	Roller - Sheeps Foot	1	40%	C.2 #38	101
Phase 1: WQ Pond - Drainage	Excavator	2	80%	C.5 #18	108
	Excavator	2	80%	C.5 #18	108
	Rammax	1	40%	C.5 #19	108
	Pump And Generator	1	100%	C.4 #88	96
	Dumper	1	80%	C.2 #32	102
	Wagons	3	5%	C.2 #34	108
Phase 1: WQ Pond - Soiling	D6 Dozer	3	80%	C.2 #12	109
	Excavator	1	80%	C.5 #18	108
	ADT	1	80%	C.1 #11	108
Phase 1: Carriageway Slip Road1 - Sub Base	Excavator	2	80%	C.5 #18	108
	ADT	1	75%	C.1 #11	108
	Vibrating Roller	2	40%	C.5 #22	109
	D6 Dozer	2	80%	C.2 #12	109
	Road Wagon	8	30%	C.6 #21	108
Phase 1: Carriageway Slip Road1 - Kerbs	Excavator With Vacuum Lift	1	40%	-	113
	Dumper	1	80%	C.2 #32	102
	Concrete Wagon	1	5%	C.4 #20	108
Phase 1: Carriageway Slip Road1 - CR Barrier	Slipform Mold Vehicle	1	90%	-	102
	Breaker	1	6%	C.1 #7	121
	Dumper	1	80%	C.2 #32	102
	Concrete Wagon	1	20%	C.4 #20	108
	Road Paver	1	60%	C.5 #31	105

Task/Sub-Task	Plant And Equipment	No. Of Plant	% On Time	BS 5228 Ref.	SWL, Db(A)
Phase 1: Carriageway Slip Road1 - Surfacing (Days)	Wagons	8	15%	C.2 #34	108
	JCB With Pecker	1	25%	C.1 #2	120
	Breaker	1	6%	C.1 #7	121
	120 Roller	1	25%	C.2 #40	101
	140 Roller	1	25%	C.2 #39	102
	Pneumatic Tyre Roller	1	12%	C.2 #37	107
	Dumper	1	80%	C.2 #32	102
Phase 1: Carriageway Slip Road1 - VRS Barrier	Excavator	1	80%	C.5 #18	108
	Concrete Wagon	1	5%	C.4 #20	108
	Breaker	1	6%	C.1 #7	121
Phase 1: Carriageway Slip Road1 - Lining	Stud Milling Wagon	1	10%	C.10 #17	112
	Line Painting Kit	1	5%	-	28
Phase 1: Verge Works1 - Lighting Installation	MEWP	1	80%	C.4 #57	95
	HIAB	1	50%	C.4 #53	105
	Coring Machine	1	40%	-	106
Phase 1: Verge Works1 - Signage	MEWP	1	80%	C.4 #57	95
	HIAB	1	50%	C.4 #53	105
	Coring Machine	1	40%	-	106
	Excavator	1	75%	C.5 #18	108
	Dumper	1	75%	C.2 #32	102
Phase 1: Open New North Bound Off Slip	Traffic Management	1	100%	-	109
Phase 1: Roundabout West - Sub Base	Excavator	2	80%	C.5 #18	108
	ADT	1	75%	C.1 #11	108
	Vibrating Roller	2	40%	C.5 #22	109
	D6 Dozer	2	80%	C.2 #12	109
	Wagon	8	30%	C.2 #34	108
Phase 1: Roundabout West - Kerbs	Excavator With Vacuum Lift	1	40%	-	113
	Dumper	1	60%	C.2 #32	102
	Concrete Wagon	1	5%	C.4 #20	108
Phase 1: Roundabout West - Surfacing	Road Paver	1	60%	C.5 #31	105
	Wagons	6	5%	C.2 #34	108
	JCB With Pecker	1	25%	C.1 #2	120
	Breaker	1	6%	C.1 #7	121
	120 Roller	1	25%	C.2 #40	101
	140 Roller	1	25%	C.2 #39	102
	Pneumatic Tyre Roller	1	12%	C.2 #37	107
	Dumper	1	80%	C.2 #32	102
Phase 1: Roundabout West - VRS Barrier	Excavator	1	80%	C.5 #18	108
	Concrete Wagon	1	5%	C.4 #20	108
	Breaker	1	6%	C.1 #7	121
Phase 1: Roundabout West - Lining	Stud Milling Wagon	1	10%	C.10 #17	112
	Line Painting Kit	1	5%	-	28
Phase 1: North East - Site Clearance	Excavator	2	80%	C.5 #18	108
	Chipper	2	40%	-	111
	Flail	1	40%	C.2 #5	104
	Tracked Mulching Machine	1	50%	C.2 #3	106
	Strimmer	2	25%	-	110
	Chainsaw	2	20%	-	116

Task/Sub-Task	Plant And Equipment	No. Of Plant	% On Time	BS 5228 Ref.	SWL, Db(A)
Phase 1: North East - Topsoil Strip	Excavator	1	80%	C.5 #18	108
	Large Breaker	1	15%	C.1 #9	118
	ADT	1	80%	C.1 #11	108
Phase 1: North East - Cut And Fill	Excavator	2	80%	C.5 #18	108
	Large Breaker	1	20%	C.1 #9	118
	ADT	1	75%	C.1 #11	108
	Vibrating Roller	2	40%	C.5 #22	109
	D6 Dozer	1	80%	C.2 #12	109
	Road Wagon	8	15%	C.6 #21	108
Phase 1: North East - Capping Layer	Excavator	2	80%	C.5 #18	108
	Large Breaker	1	20%	C.1 #9	118
	ADT	1	75%	C.1 #11	108
	Vibrating Roller	2	40%	C.5 #22	109
	D6 Dozer	1	80%	C.2 #12	109
	Road Wagon	8	15%	C.6 #21	108
Phase 1: North East - Topsoil Verges	D6 Dozer	3	80%	C.2 #12	109
	Excavator	1	80%	C.5 #18	108
	Wagons	4	30%	C.2 #34	108
Phase 1: North East - Filter Drainage	Excavator	2	80%	C.5 #18	108
	Excavator	2	80%	C.5 #18	108
	Rammax	1	40%	C.5 #19	108
	Pump And Generator	1	100%	C.4 #88	96
	Dumper	1	80%	C.2 #32	102
	Wagons	3	30%	C.2 #34	108
Phase 1: North East - Drainage Removal	Excavator	2	80%	C.5 #18	108
	Excavator	2	80%	C.5 #18	108
	Rammax	1	40%	C.5 #19	108
	Pump And Generator	1	100%	C.4 #88	96
	Dumper	1	80%	C.2 #32	102
	Wagons	3	30%	C.2 #34	108
Phase 1: North East - Ducting	Excavator	1	80%	C.5 #18	108
	Rammax	1	40%	C.5 #19	108
	Dumper	1	80%	C.2 #32	102
Phase 1: Carriageway Slip Road2 - Sub Base	Excavator	2	80%	C.5 #18	108
	ADT	1	75%	C.1 #11	108
	Vibrating Roller	2	40%	C.5 #22	109
	D6 Dozer	2	80%	C.2 #12	109
	Road Wagon	8	30%	C.6 #21	108
Phase 1: Carriageway Slip Road2 - Kerbs	Excavator With Vacuum Lift	1	40%	-	113
	Dumper	1	80%	C.2 #32	102
	Concrete Wagon	1	5%	C.4 #20	108
Phase 1: Carriageway Slip Road2 - Surfacing (Nights)	Road Paver	1	60%	C.5 #31	105
	Wagons	8	15%	C.2 #34	108
	JCB With Pecker	1	25%	C.1 #2	120
	Breaker	1	6%	C.1 #7	121
	120 Roller	1	25%	C.2 #40	101
	140 Roller	1	25%	C.2 #39	102
	Pneumatic Tyre Roller	1	12%	C.2 #37	107

Task/Sub-Task	Plant And Equipment	No. Of Plant	% On Time	BS 5228 Ref.	SWL, Db(A)
Phase 1: Carriageway Slip Road2 - Surfacing (Days)	Dumper	1	80%	C.2 #32	102
	Road Paver	1	60%	C.5 #31	105
	Wagons	8	15%	C.2 #34	108
	JCB With Pecker	1	25%	C.1 #2	120
	Breaker	1	6%	C.1 #7	121
	120 Roller	1	25%	C.2 #40	101
	140 Roller	1	25%	C.2 #39	102
	Pneumatic Tyre Roller	1	12%	C.2 #37	107
	Dumper	1	80%	C.2 #32	102
Phase 1: Carriageway Slip Road2 - Surfacing (Nights)	Road Paver	1	60%	C.5 #31	105
	Wagons	8	15%	C.2 #34	108
	JCB With Pecker	1	25%	C.1 #2	120
	Breaker	1	6%	C.1 #7	121
	120 Roller	1	25%	C.2 #40	101
	140 Roller	1	25%	C.2 #39	102
	Pneumatic Tyre Roller	1	12%	C.2 #37	107
	Dumper	1	80%	C.2 #32	102
	Dumper	1	80%	C.2 #32	102
Phase 1: Carriageway Slip Road2 - VRS Barrier	Excavator	1	80%	C.5 #18	108
	Concrete Wagon	1	5%	C.4 #20	108
	Breaker	1	6%	C.1 #7	121
Phase 1: Carriageway Slip Road2 - Ramps To Existing	Road Paver	1	60%	C.5 #31	105
	Wagons	8	10%	C.2 #34	108
	JCB With Pecker	1	25%	C.1 #2	120
	Breaker	1	6%	C.1 #7	121
	120 Roller	1	25%	C.2 #40	101
	140 Roller	1	25%	C.2 #39	102
	Pneumatic Tyre Roller	1	12%	C.2 #37	107
	Dumper	1	50%	C.2 #32	102
	Floor Saw	1	12%	C.4 #70	119
Phase 1: Verge Works2 - Lighting Installation	MEWP	1	80%	C.4 #57	95
	HIAB	1	50%	C.4 #53	105
	Coring Machine	1	40%	-	106
Phase 1: Verge Works2 - Signage	MEWP	1	80%	C.4 #57	95
	HIAB	1	50%	C.4 #53	105
	Coring Machine	1	40%	-	106
	Excavator	1	75%	C.5 #18	108
	Dumper	1	75%	C.2 #32	102
Phase 1: Open New North Bound Off Slip	Traffic Management	1	100%	-	109
Phase 1: South East - Site Clearance	Excavator	2	80%	C.5 #18	108
	Chipper	2	40%	-	111
	Flail	1	40%	C.2 #5	104
	Tracked Mulching Machine	1	50%	C.2 #3	106
	Strimmer	2	25%	-	110
	Chainsaw	2	20%	-	116
Phase 1: South East - Topsoil Strip	Excavator	1	80%	C.5 #18	108
	Large Breaker	1	15%	C.1 #9	118
	ADT	1	80%	C.1 #11	108
	Excavator	2	80%	C.5 #18	108

Task/Sub-Task	Plant And Equipment	No. Of Plant	% On Time	BS 5228 Ref.	SWL, Db(A)
Phase 1: South East - Cut And Fill	Large Breaker	1	20%	C.1 #9	118
	ADT	1	75%	C.1 #11	108
	Vibrating Roller	2	40%	C.5 #22	109
	D6 Dozer	1	80%	C.2 #12	109
	Road Wagon	8	15%	C.6 #21	108
Phase 1: South East - Capping Layer	Excavator	2	80%	C.5 #18	108
	Large Breaker	1	20%	C.1 #9	118
	ADT	1	75%	C.1 #11	108
	Vibrating Roller	2	40%	C.5 #22	109
	D6 Dozer	1	80%	C.2 #12	109
	Road Wagon	8	15%	C.6 #21	108
Phase 1: South East - Topsoil Verges	D6 Dozer	3	80%	C.2 #12	109
	Excavator	1	80%	C.5 #18	108
	Wagons	4	30%	C.2 #34	108
Phase 1: South East - Filter Drainage	Excavator	2	80%	C.5 #18	108
	Excavator	2	80%	C.5 #18	108
	Rammax	1	40%	C.5 #19	108
	Pump And Generator	1	100%	C.4 #88	96
	Dumper	1	80%	C.2 #32	102
	Wagons	3	30%	C.2 #34	108
Phase 1: South East - Drainage Removal	Excavator	2	80%	C.5 #18	108
	Excavator	2	80%	C.5 #18	108
	Rammax	1	40%	C.5 #19	108
	Pump And Generator	1	100%	C.4 #88	96
	Dumper	1	80%	C.2 #32	102
	Wagons	3	30%	C.2 #34	108
Phase 1: South East - Ducting	Excavator	1	80%	C.5 #18	108
	Rammax	1	40%	C.5 #19	108
	Dumper	1	80%	C.2 #32	102
Phase 1: Carriageway Slip Road3 - Sub Base	Excavator	2	80%	C.5 #18	108
	ADT	1	75%	C.1 #11	108
	Vibrating Roller	2	40%	C.5 #22	109
	D6 Dozer	2	80%	C.2 #12	109
	Road Wagon	8	30%	C.6 #21	108
Phase 1: Carriageway Slip Road3 - Kerbs	Excavator With Vacuum Lift	1	40%	-	113
	Dumper	1	80%	C.2 #32	102
	Concrete Wagon	1	5%	C.4 #20	108
Phase 1: Carriageway Slip Road3 - Surfacing (Days)	Road Paver	1	60%	C.5 #31	105
	Wagons	8	15%	C.2 #34	108
	JCB With Pecker	1	25%	C.1 #2	120
	Breaker	1	6%	C.1 #7	121
	120 Roller	1	25%	C.2 #40	101
	140 Roller	1	25%	C.2 #39	102
	Pneumatic Tyre Roller	1	12%	C.2 #37	107
	Dumper	1	80%	C.2 #32	102
Phase 1: Carriageway Slip Road3 - Surfacing (Nights)	Road Paver	1	60%	C.5 #31	105
	Wagons	8	15%	C.2 #34	108
	JCB With Pecker	1	25%	C.1 #2	120

Task/Sub-Task	Plant And Equipment	No. Of Plant	% On Time	BS 5228 Ref.	SWL, Db(A)
	Breaker	1	6%	C.1 #7	121
	120 Roller	1	25%	C.2 #40	101
	140 Roller	1	25%	C.2 #39	102
	Pneumatic Tyre Roller	1	12%	C.2 #37	107
	Dumper	1	80%	C.2 #32	102
Phase 1: Carriageway Slip Road3 - VRS Barrier	Excavator	1	80%	C.5 #18	108
	Concrete Wagon	1	5%	C.4 #20	108
	Breaker	1	6%	C.1 #7	121
Phase 1: Carriageway Slip Road3 - Lining	Stud Milling Wagon	1	10%	C.10 #17	112
	Line Painting Kit	1	5%	-	28
Phase 1: Verge Works3 - Lighting Installation	MEWP	1	80%	C.4 #57	95
	HIAB	1	50%	C.4 #53	105
	Coring Machine	1	40%	-	106
Phase 1: Verge Works3 - Signage	MEWP	1	80%	C.4 #57	95
	HIAB	1	50%	C.4 #53	105
	Coring Machine	1	40%	-	106
	Excavator	1	75%	C.5 #18	108
	Dumper	1	75%	C.2 #32	102
Phase 1: Open New North Bound Off Slip	Traffic Management	1	100%	-	109
Phase 1: Roundabout East - Sub Base	Excavator	2	80%	C.5 #18	108
	ADT	1	75%	C.1 #11	108
	Vibrating Roller	2	40%	C.5 #22	109
	D6 Dozer	2	80%	C.2 #12	109
	Road Wagon	8	30%	C.6 #21	108
Phase 1: Roundabout East - Kerbs	Excavator With Vacuum Lift	1	40%	-	113
	Dumper	1	80%	C.2 #32	102
	Concrete Wagon	1	5%	C.4 #20	108
Phase 1: Roundabout East - Surfacing	Road Paver	1	60%	C.5 #31	105
	Wagons	8	15%	C.2 #34	108
	JCB With Pecker	1	25%	C.1 #2	120
	Breaker	1	6%	C.1 #7	121
	120 Roller	1	25%	C.2 #40	101
	140 Roller	1	25%	C.2 #39	102
	Pneumatic Tyre Roller	1	12%	C.2 #37	107
	Dumper	1	80%	C.2 #32	102
Phase 1: Roundabout East - VRS Barrier	Excavator	1	80%	C.5 #18	108
	Concrete Wagon	1	5%	C.4 #20	108
	Breaker	1	6%	C.1 #7	121
Phase 1: Roundabout East - Lining	Stud Milling Wagon	1	10%	C.10 #17	112
	Line Painting Kit	1	5%	-	28
Phase 1A					
Phase 1A: - Install Narrow Lanes On NB Carriageway	IPV	2	10%	C.6 #19	104
	HIAB	1	40%	C.4 #53	105
	Drill	2	5%	-	102
	Impact Driver	2	5%	-	102
Phase 1A: - Install Narrow Lanes On SB	IPV	2	10%	C.6 #19	104
	HIAB	1	40%	C.4 #53	105
	Drill	2	5%	-	102

Task/Sub-Task	Plant And Equipment	No. Of Plant	% On Time	BS 5228 Ref.	SWL, Db(A)
Carriageway M6 To Walsgrave	Impact Driver	2	5%	-	102
Phase 1A: - Install Narrow Lanes On SB Carriageway Walsgrave To Binley	IPV	2	10%	C.6 #19	104
	HIAB	1	40%	C.4 #53	105
	Drill	2	5%	-	102
	Impact Driver	2	5%	-	102
Phase 1A: Bridge Deck - HRA Protection Layer	Excavator	2	60%	C.5 #18	108
	Wagons	8	5%	C.2 #34	108
	JCB With Pecker	1	25%	C.1 #2	120
	Breaker	1	6%	C.1 #7	121
	120 Roller	1	25%	C.2 #40	101
	140 Roller	1	25%	C.2 #39	102
	Pneumatic Tyre Roller	1	12%	C.2 #37	107
	Dumper	1	80%	C.2 #32	102
Phase 1A: Bridge Deck - SMA Binder	Excavator	2	60%	C.5 #18	108
	Wagons	8	5%	C.2 #34	108
	JCB With Pecker	1	25%	C.1 #2	120
	Breaker	1	6%	C.1 #7	121
	120 Roller	1	25%	C.2 #40	101
	140 Roller	1	25%	C.2 #39	102
	Pneumatic Tyre Roller	1	12%	C.2 #37	107
	Dumper	1	80%	C.2 #32	102
Phase 1A: Bridge Deck - HRA Surface Course	Excavator	2	60%	C.5 #18	108
	Wagons	8	5%	C.2 #34	108
	JCB With Pecker	1	25%	C.1 #2	120
	Breaker	1	6%	C.1 #7	121
	120 Roller	1	25%	C.2 #40	101
	140 Roller	1	25%	C.2 #39	102
	Pneumatic Tyre Roller	1	12%	C.2 #37	107
	Dumper	1	80%	C.2 #32	102
Phase 1A: Bridge Deck - Base	Excavator	2	60%	C.5 #18	108
	Wagons	8	5%	C.2 #34	108
	JCB With Pecker	1	25%	C.1 #2	120
	Breaker	1	6%	C.1 #7	121
	120 Roller	1	25%	C.2 #40	101
	140 Roller	1	25%	C.2 #39	102
	Pneumatic Tyre Roller	1	12%	C.2 #37	107
	Dumper	1	80%	C.2 #32	102
Phase 1A: Bridge Deck - Binder Course	Excavator	2	60%	C.5 #18	108
	Wagons	8	5%	C.2 #34	108
	JCB With Pecker	1	25%	C.1 #2	120
	Breaker	1	6%	C.1 #7	121
	120 Roller	1	25%	C.2 #40	101
	140 Roller	1	25%	C.2 #39	102
	Pneumatic Tyre Roller	1	12%	C.2 #37	107
	Dumper	1	80%	C.2 #32	102
Phase 1A: Bridge Deck - Surface Course	Excavator	2	60%	C.5 #18	108
	Wagons	8	5%	C.2 #34	108

Task/Sub-Task	Plant And Equipment	No. Of Plant	% On Time	BS 5228 Ref.	SWL, Db(A)
	JCB With Pecker	1	25%	C.1 #2	120
	Breaker	1	6%	C.1 #7	121
	120 Roller	1	25%	C.2 #40	101
	140 Roller	1	25%	C.2 #39	102
	Pneumatic Tyre Roller	1	12%	C.2 #37	107
	Dumper	1	80%	C.2 #32	102
Phase 1A: West NB Carriageway - Excavation Ex Carriageway	Excavator	2	80%	C.5 #18	108
	Large Breaker	1	20%	C.1 #9	118
	ADT	1	75%	C.1 #11	108
	Vibrating Roller	2	40%	C.5 #22	109
	D6 Dozer	1	80%	C.2 #12	109
	Road Wagon	8	15%	C.6 #21	108
Phase 1A: West NB Carriageway - Capping	Excavator	2	80%	C.5 #18	108
	Large Breaker	1	20%	C.1 #9	118
	ADT	1	75%	C.1 #11	108
	Vibrating Roller	2	40%	C.5 #22	109
	D6 Dozer	1	80%	C.2 #12	109
	Road Wagon	8	15%	C.6 #21	108
Phase 1A: West NB Carriageway - Drainage	Excavator	2	80%	C.5 #18	108
	Excavator	2	80%	C.5 #18	108
	Rammax	1	40%	C.5 #19	108
	Pump And Generator	1	100%	C.4 #88	96
	Dumper	1	80%	C.2 #32	102
	Wagons	3	30%	C.2 #34	108
Phase 1A: West NB Carriageway - Drainage Removal	Excavator	2	80%	C.5 #18	108
	Excavator	2	80%	C.5 #18	108
	Rammax	1	40%	C.5 #19	108
	Pump And Generator	1	100%	C.4 #88	96
	Dumper	1	80%	C.2 #32	102
	Wagons	3	30%	C.2 #34	108
Phase 1A: West NB Carriageway - Concrete Barrier	Slipform Mold Vehicle	1	90%	-	102
	Breaker	1	6%	C.1 #7	121
	Dumper	1	80%	C.2 #32	102
	Concrete Wagon	1	20%	C.4 #20	108
Phase 1A: West NB Carriageway - Sub Base	Excavator	2	80%	C.5 #18	108
	ADT	1	75%	C.1 #11	108
	Vibrating Roller	2	40%	C.5 #22	109
	D6 Dozer	2	80%	C.2 #12	109
	Road Wagon	8	30%	C.6 #21	108
Phase 1A: West NB Carriageway - Surfacing	Road Paver	1	60%	C.5 #31	105
	Wagons	8	15%	C.2 #34	108
	JCB With Pecker	1	25%	C.1 #2	120
	Breaker	1	6%	C.1 #7	121
	120 Roller	1	25%	C.2 #40	101
	140 Roller	1	25%	C.2 #39	102
	Pneumatic Tyre Roller	1	12%	C.2 #37	107
	Dumper	1	80%	C.2 #32	102
	MEWP	1	80%	C.4 #57	95

Task/Sub-Task	Plant And Equipment	No. Of Plant	% On Time	BS 5228 Ref.	SWL, Db(A)
Phase 1A: West NB Carriageway - Lighting & Signs	HIAB	1	50%	C.4 #53	105
	Coring Machine	1	40%	-	106
Phase 1A: West NB Carriageway - Move NB Traffic Over	Traffic Management	1	100%	-	109
Phase 1A: East SB Carriageway - Excavation Ex Carriageway	Excavator	2	80%	C.5 #18	108
	Large Breaker	1	20%	C.1 #9	118
	ADT	1	75%	C.1 #11	108
	Vibrating Roller	2	40%	C.5 #22	109
	D6 Dozer	1	80%	C.2 #12	109
	Road Wagon	8	15%	C.6 #21	108
Phase 1A: East SB Carriageway - Capping	Excavator	2	80%	C.5 #18	108
	Large Breaker	1	20%	C.1 #9	118
	ADT	1	75%	C.1 #11	108
	Vibrating Roller	2	40%	C.5 #22	109
	D6 Dozer	1	80%	C.2 #12	109
	Road Wagon	8	15%	C.6 #21	108
Phase 1A: East SB Carriageway - Drainage	Excavator	2	80%	C.5 #18	108
	Excavator	2	80%	C.5 #18	108
	Rammax	1	40%	C.5 #19	108
	Pump And Generator	1	100%	C.4 #88	96
	Dumper	1	80%	C.2 #32	102
	Wagons	3	30%	C.2 #34	108
Phase 1A: East SB Carriageway - Drainage Removal	Excavator	2	80%	C.5 #18	108
	Excavator	2	80%	C.5 #18	108
	Rammax	1	40%	C.5 #19	108
	Pump And Generator	1	100%	C.4 #88	96
	Dumper	1	80%	C.2 #32	102
	Wagons	3	30%	C.2 #34	108
Phase 1A: East SB Carriageway - Concrete Barrier	Slipform Mold Vehicle	1	90%	-	102
	Breaker	1	6%	C.1 #7	121
	Dumper	1	80%	C.2 #32	102
	Concrete Wagon	1	20%	C.4 #20	108
Phase 1A: East SB Carriageway - Sub Base	Excavator	2	80%	C.5 #18	108
	ADT	1	75%	C.1 #11	108
	Vibrating Roller	2	40%	C.5 #22	109
	D6 Dozer	2	80%	C.2 #12	109
	Road Wagon	8	30%	C.6 #21	108
Phase 1A: East SB Carriageway - Surfacing	Road Paver	1	60%	C.5 #31	105
	Wagons	8	15%	C.2 #34	108
	JCB With Pecker	1	25%	C.1 #2	120
	Breaker	1	6%	C.1 #7	121
	120 Roller	1	25%	C.2 #40	101
	140 Roller	1	25%	C.2 #39	102
	Pneumatic Tyre Roller	1	12%	C.2 #37	107
	Dumper	1	80%	C.2 #32	102
	MEWP	1	80%	C.4 #57	95
	HIAB	1	50%	C.4 #53	105

Task/Sub-Task	Plant And Equipment	No. Of Plant	% On Time	BS 5228 Ref.	SWL, Db(A)
Phase 1A: East SB Carriageway - Lighting & Signs	Coring Machine	1	40%	-	106
Phase 1A: East SB Carriageway - Move NB Traffic Over	Traffic Management	1	100%	-	109
Phase 1A: West REW Construction - REW Foundation	Excavator	1	40%	C.5 #18	108
	Wagons	8	60%	C.2 #34	108
	Pneumatic Tyre Roller	1	12%	C.2 #37	107
	Dumper	1	50%	C.2 #32	102
Phase 1A: West REW Construction - REW Drainage	Excavator	2	80%	C.5 #18	108
	Excavator	2	80%	C.5 #18	108
	Rammax	1	40%	C.5 #19	108
	Pump And Generator	1	100%	C.4 #88	96
	Dumper	1	80%	C.2 #32	102
	Wagons	3	30%	C.2 #34	108
Phase 1A: West REW Construction - Install Geogrids & Panels	Excavator	1	40%	C.5 #18	108
	Wagons	8	60%	C.2 #34	108
	Pneumatic Tyre Roller	1	12%	C.2 #37	107
	Dumper	1	50%	C.2 #32	102
Phase 1A: West REW Construction - Construct Bank Seat	Excavator	1	40%	C.5 #18	108
	Concrete Pump	1	20%	C.4 #30	107
	Concrete Wagon	4	10%	C.4 #20	108
	Generator	2	20%	C.8 #24	87
	Excavator	2	90%	C.5 #18	108
	Concrete Poker	2	20%	C.4 #33	106
Phase 1A: West REW Construction - Install Coping	Excavator	1	40%	C.5 #18	108
	Concrete Pump	1	20%	C.4 #30	107
	Concrete Wagon	4	10%	C.4 #20	108
	Generator	2	20%	C.8 #24	87
	Excavator	2	90%	C.5 #18	108
	Concrete Poker	2	20%	C.4 #33	106
Phase 1A: East REW Construction - REW Foundation	Excavator	1	40%	C.5 #18	108
	Wagons	8	60%	C.2 #34	108
	Pneumatic Tyre Roller	1	12%	C.2 #37	107
	Dumper	1	50%	C.2 #32	102
Phase 1A: East REW Construction - REW Drainage	Excavator	2	80%	C.5 #18	108
	Excavator	2	80%	C.5 #18	108
	Rammax	1	40%	C.5 #19	108
	Pump And Generator	1	100%	C.4 #88	96
	Dumper	1	80%	C.2 #32	102
	Wagons	3	30%	C.2 #34	108
Phase 1A: East REW Construction - Install Geogrids & Panels	Excavator	1	40%	C.5 #18	108
	Wagons	8	60%	C.2 #34	108
	Pneumatic Tyre Roller	1	12%	C.2 #37	107
	Dumper	1	50%	C.2 #32	102
	Excavator	1	40%	C.5 #18	108

Task/Sub-Task	Plant And Equipment	No. Of Plant	% On Time	BS 5228 Ref.	SWL, Db(A)
Phase 1A: East REW Construction - Construct Bank Seat	Concrete Pump	1	20%	C.4 #30	107
	Concrete Wagon	4	10%	C.4 #20	108
	Generator	2	20%	C.8 #24	87
	Excavator	2	90%	C.5 #18	108
	Concrete Poker	2	20%	C.4 #33	106
Phase 1A: East REW Construction - Install Coping	Excavator	1	40%	C.5 #18	108
	Concrete Pump	1	20%	C.4 #30	107
	Concrete Wagon	4	10%	C.4 #20	108
	Generator	2	20%	C.8 #24	87
	Excavator	2	90%	C.5 #18	108
	Concrete Poker	2	20%	C.4 #33	106
Phase 1A: Bridge Works Off-Line - Prepare Area To Construct Bridge OFF Line	Excavator	2	80%	C.5 #18	108
	ADT	1	75%	C.1 #11	108
	Vibrating Roller	2	40%	C.5 #22	109
	D6 Dozer	1	80%	C.2 #12	109
	Road Wagon	8	15%	C.6 #21	108
Phase 1A: Bridge Works Off-Line - Remove Ramps And Lay Down Area	Excavator	2	80%	C.5 #18	108
	ADT	1	75%	C.1 #11	108
	Vibrating Roller	2	40%	C.5 #22	109
	D6 Dozer	1	80%	C.2 #12	109
	Road Wagon	8	15%	C.6 #21	108
Phase 1A: Bridge Works Off-Line - Topsoil Area	D6 Dozer	3	80%	C.2 #12	109
	Excavator	21	80%	C.5 #18	108
	Wagons	4	30%	C.2 #34	108
Phase 1A: Deck Construction - Place Beams On Tressels	Crane	1	10%	-	99
	Abnormal Load Flatbeds	4	5%	C.6 #23	110
	Mobile Crane	1	30%	C.3 #28	95
Phase 1A: Deck Construction - Install Shutters	Flatbed	1	5%	C.2 #26	107
	Mobile Crane	1	30%	C.3 #28	95
	MEWP	1	80%	C.4 #57	95
Phase 1A: Deck Construction - Fix Reinforcement	Flatbed	1	5%	C.2 #26	107
	Mobile Crane	1	30%	C.3 #28	95
	MEWP	1	80%	C.4 #57	95
Phase 1A: Deck Construction - Edge Shutters And Stop End	Flatbed	1	5%	C.2 #26	107
	Mobile Crane	1	30%	C.3 #28	95
	MEWP	1	80%	C.4 #57	95
Phase 1A: Deck Construction - Concrete	Excavator	1	80%	C.5 #18	108
	Mobile Concrete Pump	1	80%	C.4 #28	103
	Concrete Poker	1	35%	C.4 #33	106
	Generator	1	40%	C.8 #24	87
	Concrete Wagon	1	10%	C.4 #20	108
Phase 1A: Deck Construction - Strip Shutter	Flatbed	1	5%	C.2 #26	107
	Mobile Crane	1	30%	C.3 #28	95
	MEWP	1	80%	C.4 #57	95
Phase 1A: North Parapet - Set Up Edge Shutters And And Fix Internal	Flatbed	1	5%	C.2 #26	107
	Mobile Crane	1	30%	C.3 #28	95
	MEWP	1	80%	C.4 #57	95
Phase 1A: North Parapet - Concrete Parapets	Excavator	1	80%	C.5 #18	108
	Mobile Concrete Pump	1	80%	C.4 #28	103

Task/Sub-Task	Plant And Equipment	No. Of Plant	% On Time	BS 5228 Ref.	SWL, Db(A)
	Hydremer	1	75%	C.2 #33	109
	Concrete Poker	1	35%	C.4 #33	106
	Generator	1	40%	C.8 #24	87
	Concrete Wagon	1	10%	C.4 #20	108
Phase 1A: North Parapet - Strip Shutter	Flatbed	1	5%	C.2 #26	107
	Mobile Crane	1	30%	C.3 #28	95
	MEWP	1	80%	C.4 #57	95
Phase 1A: South Parapet - Set Up Edge Shutters And And Fix Internal	Flatbed	1	5%	C.2 #26	107
	Mobile Crane	1	30%	C.3 #28	95
	MEWP	1	80%	C.4 #57	95
Phase 1A: South Parapet - Concrete Parapets	Excavator	1	80%	C.5 #18	108
	Mobile Concrete Pump	1	80%	C.4 #28	103
	Concrete Poker	1	35%	C.4 #33	106
	Generator	1	40%	C.8 #24	87
	Concrete Wagon	1	10%	C.4 #20	108
Phase 1A: South Parapet - Strip Shutter	Flatbed	1	5%	C.2 #26	107
	Mobile Crane	1	30%	C.3 #28	95
	MEWP	1	80%	C.4 #57	95
Phase 1A: Parapet Fencing - Install North Parapet Fence	Impact Driver	2	50%	-	102
Phase 1A: Parapet Fencing - Strip North Parapet Falsework	Flatbed	1	5%	C.2 #26	107
	Mobile Crane	1	30%	C.3 #28	95
	MEWP	1	80%	C.4 #57	95
Phase 1A: Parapet Fencing - Install South Parapet Fence	Flatbed	1	5%	C.2 #26	107
	Mobile Crane	1	30%	C.3 #28	95
	MEWP	1	80%	C.4 #57	95
Phase 1A: Parapet Fencing - Drive Bridge & Lift (Nights)	SPMT	2	12%	C.11 #18	116
	Mobile Crane	1	12%	C.3 #28	95
	Generator	2	12%	C.8 #24	87
Phase 1A: Parapet Fencing - Waterproof To Deck	Generator / Compressor	1	50%	C.4 #82	84
	Sprayer	2	12%	-	93
Phase 1A: Parapet Fencing - Regulating	Excavator	2	60%	C.5 #18	108
	Wagons	8	5%	C.2 #34	108
	JCB With Pecker	1	25%	C.1 #2	120
	Breaker	1	6%	C.1 #7	121
	120 Roller	1	25%	C.2 #40	101
	140 Roller	1	25%	C.2 #39	102
	Pneumatic Tyre Roller	1	12%	C.2 #37	107
	Dumper	1	80%	C.2 #32	102
Phase 1A: Parapet Fencing - Kerbing	Excavator With Vacuum Lift	1	40%	-	113
	Dumper	1	80%	C.2 #32	102
	Concrete Wagon	1	5%	C.4 #20	108
Phase 1A: Parapet Fencing - Surfacing	Road Paver	1	60%	C.5 #31	105
	Wagons	8	15%	C.2 #34	108
	JCB With Pecker	1	25%	C.1 #2	120
	Breaker	1	6%	C.1 #7	121
	120 Roller	1	25%	C.2 #40	101
	140 Roller	1	25%	C.2 #39	102

Task/Sub-Task	Plant And Equipment	No. Of Plant	% On Time	BS 5228 Ref.	SWL, Db(A)
	Pneumatic Tyre Roller	1	12%	C.2 #37	107
	Dumper	1	80%	C.2 #32	102
Phase 1A: Temporary Widening Southbound RA - Reduce Dig	Excavator	2	80%	C.5 #18	108
	Large Breaker	1	20%	C.1 #9	118
	ADT	1	75%	C.1 #11	108
	Vibrating Roller	2	40%	C.5 #22	109
	D6 Dozer	1	80%	C.2 #12	109
	Road Wagon	8	15%	C.6 #21	108
Phase 1A: Temporary Widening Southbound RA - Install Temporary Drainage	Excavator	2	80%	C.5 #18	108
	Excavator	2	80%	C.5 #18	108
	Rammax	1	40%	C.5 #19	108
	Pump And Generator	1	100%	C.4 #88	96
	Dumper	1	80%	C.2 #32	102
	Wagons	3	30%	C.2 #34	108
Phase 1A: Temporary Widening Southbound RA - Sub-Base And Trim	Excavator	2	80%	C.5 #18	108
	ADT	1	75%	C.1 #11	108
	Vibrating Roller	2	40%	C.5 #22	109
	D6 Dozer	2	80%	C.2 #12	109
	Road Wagon	8	30%	C.6 #21	108
	Road Paver	1	60%	C.5 #31	105
Phase 1A: Temporary Widening Southbound RA - Temporary Surfacing	Wagons	8	15%	C.2 #34	108
	JCB With Pecker	1	25%	C.1 #2	120
	Breaker	1	6%	C.1 #7	121
	120 Roller	1	25%	C.2 #40	101
	140 Roller	1	25%	C.2 #39	102
	Pneumatic Tyre Roller	1	12%	C.2 #37	107
	Dumper	1	80%	C.2 #32	102
	Excavator	2	80%	C.5 #18	108
Phase 1A: Temporary Widening Southbound RA - Reduce Dig	Large Breaker	1	20%	C.1 #9	118
	ADT	1	75%	C.1 #11	108
	Vibrating Roller	2	40%	C.5 #22	109
	D6 Dozer	1	80%	C.2 #12	109
	Wagon	8	5%	C.2 #34	108
	Excavator	2	80%	C.5 #18	108
Phase 1A: Temporary Widening Southbound RA - Install Temporary Drainage	Rammax	1	40%	C.5 #19	108
	Pump And Generator	1	100%	C.4 #88	96
	Dumper	1	80%	C.2 #32	102
	Wagons	3	5%	C.2 #34	108
	Excavator	2	80%	C.5 #18	108
Phase 1A: Temporary Widening Southbound RA - Sub-Base And Trim	ADT	1	75%	C.1 #11	108
	Vibrating Roller	2	40%	C.5 #22	109
	D6 Dozer	2	80%	C.2 #12	109
	Road Wagon	8	30%	C.6 #21	108
	Road Paver	1	60%	C.5 #31	105
Phase 1A: Temporary Widening Southbound RA - Temporary Surfacing	Wagons	8	15%	C.2 #34	108
	JCB With Pecker	1	25%	C.1 #2	120
	Breaker	1	6%	C.1 #7	121
	120 Roller	1	25%	C.2 #40	101
	Excavator	2	80%	C.5 #18	108

Task/Sub-Task	Plant And Equipment	No. Of Plant	% On Time	BS 5228 Ref.	SWL, Db(A)
	140 Roller	1	25%	C.2 #39	102
	Pneumatic Tyre Roller	1	12%	C.2 #37	107
	Dumper	1	80%	C.2 #32	102
Phase 1A: B4082 - Sub Base	Excavator	2	80%	C.5 #18	108
	ADT	1	75%	C.1 #11	108
	Vibrating Roller	2	40%	C.5 #22	109
	D6 Dozer	2	80%	C.2 #12	109
	Road Wagon	8	30%	C.6 #21	108
Phase 1A: B4082 - Kerbs	Excavator With Vacuum Lift	1	40%	-	113
	Dumper	1	80%	C.2 #32	102
	Concrete Wagon	1	5%	C.4 #20	108
Phase 1A: B4082 - Surfacing	Road Paver	1	60%	C.5 #31	105
	Wagons	8	15%	C.2 #34	108
	JCB With Pecker	1	25%	C.1 #2	120
	Breaker	1	6%	C.1 #7	121
	120 Roller	1	25%	C.2 #40	101
	140 Roller	1	25%	C.2 #39	102
	Pneumatic Tyre Roller	1	12%	C.2 #37	107
	Dumper	1	80%	C.2 #32	102
Phase 1A: B4082 - VRS Barrier	Excavator	1	80%	C.5 #18	108
	Concrete Wagon	1	5%	C.4 #20	108
	Breaker	1	6%	C.1 #7	121
Phase 1A: B4082 - Lining	Stud Milling Wagon	1	10%	C.10 #17	112
	Line Painting Kit	1	5%	-	28
Phase 1A: B4082 - Tie In Works (Days)	Road Paver	1	60%	C.5 #31	105
	Wagons	8	15%	C.2 #34	108
	JCB With Pecker	1	25%	C.1 #2	120
	Breaker	1	6%	C.1 #7	121
	120 Roller	1	25%	C.2 #40	101
	140 Roller	1	25%	C.2 #39	102
	Pneumatic Tyre Roller	1	12%	C.2 #37	107
	Dumper	1	80%	C.2 #32	102
Phase 1A: B4082 - Tie In Works (Nights)	Road Paver	1	60%	C.5 #31	105
	Wagons	8	15%	C.2 #34	108
	JCB With Pecker	1	25%	C.1 #2	120
	Breaker	1	6%	C.1 #7	121
	120 Roller	1	25%	C.2 #40	101
	140 Roller	1	25%	C.2 #39	102
	Pneumatic Tyre Roller	1	12%	C.2 #37	107
	Dumper	1	80%	C.2 #32	102
Phase 1A: B4082 - Open New B4062	Traffic Management	1	100%	-	109
Phase 1A: Pedestrian Crossing - Excavate	Excavator	2	80%	C.5 #18	108
	Hydrema	2	80%	C.4 #8	84
	Large Breaker	1	25%	C.1 #9	118
	ADT	1	80%	C.1 #11	108
	Wagon	8	30%	C.2 #34	108
	Excavator	1	80%	C.5 #18	108

Task/Sub-Task	Plant And Equipment	No. Of Plant	% On Time	BS 5228 Ref.	SWL, Db(A)
Phase 1A: Pedestrian Crossing - Ducting	Rammax	1	40%	C.5 #19	108
	Dumper	1	80%	C.2 #32	102
Phase 1A: Pedestrian Crossing - Kerbing Paving	Excavator With Vacuum Lift	1	40%	-	113
	Dumper	1	80%	C.2 #32	102
	Concrete Wagon	1	5%	C.4 #20	108
Phase 1A: Pedestrian Crossing - Pedestrian Guardrail	Breaker	1	6%	C.1 #7	121
	Drill	2	20%	-	102
Phase 1A: Pedestrian Crossing - Surfacing	Road Paver	1	60%	C.5 #31	105
	Wagons	8	15%	C.2 #34	108
	JCB With Pecker	1	25%	C.1 #2	120
	Breaker	1	6%	C.1 #7	121
	120 Roller	1	25%	C.2 #40	101
	140 Roller	1	25%	C.2 #39	102
	Pneumatic Tyre Roller	1	12%	C.2 #37	107
	Dumper	1	80%	C.2 #32	102
Phase 1A: Pedestrian Crossing - Install Signals	MEWP	1	80%	C.4 #57	95
	HIAB	1	50%	C.4 #53	105
	Coring Machine	1	40%	-	106
	Excavator	1	75%	C.5 #18	108
	Dumper	1	75%	C.2 #32	102
Phase 2					
Phase 2: - TM Switch B4082 A46 NB Binley To M6 J2	IPV	2	10%	C.6 #19	104
	HIAB	1	40%	C.4 #53	105
	Drill	2	5%	-	102
	Impact Driver	2	5%	-	102
Phase 2: - TM Switch B4082 A46 NB Binley To M6 J2	IPV	2	10%	C.6 #19	104
	HIAB	1	40%	C.4 #53	105
	Drill	2	5%	-	102
	Impact Driver	2	5%	-	102
Phase 2: Northbound Carriageway - Excavation Ex Carriageway	Planer	1	80%	C.5 #7	110
	Excavator	2	80%	C.5 #18	108
	Hydrema	2	80%	C.4 #8	84
	Large Breaker	1	25%	C.1 #9	118
	ADT	1	80%	C.1 #11	108
	Vibrating Roller	2	40%	C.5 #22	109
	Coring Machine	1	35%	-	106
	Wagon	8	30%	C.2 #34	108
Phase 2: Northbound Carriageway - Capping	Excavator	2	80%	C.5 #18	108
	Large Breaker	1	20%	C.1 #9	118
	ADT	1	75%	C.1 #11	108
	Vibrating Roller	2	40%	C.5 #22	109
	D6 Dozer	1	80%	C.2 #12	109
	Road Wagon	8	15%	C.6 #21	108
Phase 2: Northbound Carriageway - Sub Base	Excavator	2	80%	C.5 #18	108
	ADT	1	75%	C.1 #11	108
	Vibrating Roller	2	40%	C.5 #22	109
	D6 Dozer	2	80%	C.2 #12	109
	Road Wagon	8	30%	C.6 #21	108
	Excavator	2	80%	C.5 #18	108

Task/Sub-Task	Plant And Equipment	No. Of Plant	% On Time	BS 5228 Ref.	SWL, Db(A)
Phase 2: Northbound Carriageway - Drainage	Excavator	2	80%	C.5 #18	108
	Rammax	1	40%	C.5 #19	108
	Pump And Generator	1	100%	C.4 #88	96
	Dumper	1	80%	C.2 #32	102
	Wagons	3	5%	C.2 #34	108
Phase 2: Northbound Carriageway - Drainage Removal	Excavator	2	80%	C.5 #18	108
	Excavator	2	80%	C.5 #18	108
	Rammax	1	40%	C.5 #19	108
	Pump And Generator	1	100%	C.4 #88	96
	Dumper	1	80%	C.2 #32	102
	Wagons	3	5%	C.2 #34	108
Phase 2: Northbound Carriageway - Concrete Barrier	Slipform Mold Vehicle	1	90%	-	102
	Breaker	1	6%	C.1 #7	121
	Dumper	1	80%	C.2 #32	102
	Concrete Wagon	1	20%	C.4 #20	108
Phase 2: Northbound Carriageway - Surfacing	Road Paver	1	60%	C.5 #31	105
	Wagons	8	15%	C.2 #34	108
	JCB With Pecker	1	25%	C.1 #2	120
	Breaker	1	6%	C.1 #7	121
	120 Roller	1	25%	C.2 #40	101
	140 Roller	1	25%	C.2 #39	102
	Pneumatic Tyre Roller	1	12%	C.2 #37	107
	Dumper	1	80%	C.2 #32	102
Phase 2: Northbound Carriageway - Lighting & Signs	MEWP	1	80%	C.4 #57	95
	HIAB	1	50%	C.4 #53	105
	Coring Machine	1	40%	-	106
	Excavator	1	75%	C.5 #18	108
	Dumper	1	75%	C.2 #32	102
Phase 2: Northbound Carriageway - Move NB Traffic Over	Traffic Management	1	100%	-	109
Phase 3					
Phase 3: - TM Switch	IPV	2	10%	C.6 #19	104
	HIAB	1	40%	C.4 #53	105
	Drill	2	5%	-	102
	Impact Driver	2	5%	-	102
Phase 3: - Site Clearance	Excavator	2	80%	C.5 #18	108
	Chipper	2	40%	-	111
	Flail	1	40%	C.2 #5	104
	Tracked Mulching Machine	1	50%	C.2 #3	106
	Strimmer	2	25%	-	110
	Chainsaw	2	20%	-	116
Phase 3: - Top Soil Strip	Excavator	1	80%	C.5 #18	108
	Large Breaker	1	15%	C.1 #9	118
	ADT	1	80%	C.1 #11	108
Phase 3: - Excavation	Excavator	2	80%	C.5 #18	108
	Large Breaker	1	20%	C.1 #9	118
	ADT	1	75%	C.1 #11	108

Task/Sub-Task	Plant And Equipment	No. Of Plant	% On Time	BS 5228 Ref.	SWL, Db(A)
	Vibrating Roller	2	40%	C.5 #22	109
	D6 Dozer	1	80%	C.2 #12	109
	Road Wagon	8	15%	C.6 #21	108
Phase 3: - Capping	Excavator	2	80%	C.5 #18	108
	Large Breaker	1	20%	C.1 #9	118
	ADT	1	75%	C.1 #11	108
	Vibrating Roller	2	40%	C.5 #22	109
	D6 Dozer	1	80%	C.2 #12	109
	Road Wagon	8	15%	C.6 #21	108
Phase 3: - Sub Base	Excavator	2	80%	C.5 #18	108
	ADT	1	75%	C.1 #11	108
	Vibrating Roller	2	40%	C.5 #22	109
	D6 Dozer	2	80%	C.2 #12	109
	Road Wagon	8	30%	C.6 #21	108
Phase 3: - Drainage	Excavator	2	80%	C.5 #18	108
	Excavator	2	80%	C.5 #18	108
	Rammax	1	40%	C.5 #19	108
	Pump And Generator	1	100%	C.4 #88	96
	Dumper	1	80%	C.2 #32	102
	Wagons	3	5%	C.2 #34	108
Phase 3: - Drainage Removal	Excavator	2	80%	C.5 #18	108
	Excavator	2	80%	C.5 #18	108
	Rammax	1	40%	C.5 #19	108
	Pump And Generator	1	100%	C.4 #88	96
	Dumper	1	80%	C.2 #32	102
	Wagons	3	5%	C.2 #34	108
Phase 3: - Concrete Barrier	Slipform Mold Vehicle	1	90%	-	102
	Breaker	1	6%	C.1 #7	121
	Dumper	1	80%	C.2 #32	102
	Concrete Wagon	1	20%	C.4 #20	108
Phase 3: - Surfacing	Road Paver	1	60%	C.5 #31	105
	Wagons	8	15%	C.2 #34	108
	JCB With Pecker	1	25%	C.1 #2	120
	Breaker	1	6%	C.1 #7	121
	120 Roller	1	25%	C.2 #40	101
	140 Roller	1	25%	C.2 #39	102
	Pneumatic Tyre Roller	1	12%	C.2 #37	107
	Dumper	1	80%	C.2 #32	102
Phase 3: - Lighting & Signs	MEWP	1	80%	C.4 #57	95
	HIAB	1	50%	C.4 #53	105
	Coring Machine	1	40%	-	106
	Excavator	1	75%	C.5 #18	108
	Dumper	1	75%	C.2 #32	102
Phase 3: - Move SB Traffic Over	Traffic Management	1	100%	-	109
Phase 4					
Phase 4: - TM Switch NB	IPV	2	10%	C.6 #19	104
	HIAB	1	40%	C.4 #53	105
	Drill	2	5%	-	102

Task/Sub-Task	Plant And Equipment	No. Of Plant	% On Time	BS 5228 Ref.	SWL, Db(A)
	Impact Driver	2	5%	-	102
Phase 4: - TM Switch SB	IPV	2	10%	C.6 #19	104
	HIAB	1	40%	C.4 #53	105
	Drill	2	5%	-	102
	Impact Driver	2	5%	-	102
Phase 4: - Reduce Dig	Excavator	2	80%	C.5 #18	108
	Large Breaker	1	20%	C.1 #9	118
	ADT	1	75%	C.1 #11	108
	Vibrating Roller	2	40%	C.5 #22	109
	D6 Dozer	1	80%	C.2 #12	109
	Wagon	8	5%	C.2 #34	108
Phase 4: - Place Compact Sub Base	Excavator	2	80%	C.5 #18	108
	ADT	1	75%	C.1 #11	108
	Vibrating Roller	2	40%	C.5 #22	109
	D6 Dozer	2	80%	C.2 #12	109
	Wagon	8	15%	C.2 #34	108
Phase 4: - Drainage	Excavator	2	80%	C.5 #18	108
	Excavator	2	80%	C.5 #18	108
	Rammax	1	40%	C.5 #19	108
	Pump And Generator	1	80%	C.4 #88	96
	Dumper	1	80%	C.2 #32	102
	Wagons	1	30%	C.2 #34	108
Phase 4: - Drainage Removal	Excavator	2	80%	C.5 #18	108
	Excavator	2	80%	C.5 #18	108
	Rammax	1	40%	C.5 #19	108
	Pump And Generator	1	80%	C.4 #88	96
	Dumper	1	80%	C.2 #32	102
	Wagons	1	30%	C.2 #34	108
Phase 4: - Construct Central Res	Excavator	2	80%	C.5 #18	108
	ADT	1	75%	C.1 #11	108
	Vibrating Roller	2	40%	C.5 #22	109
	D6 Dozer	2	80%	C.2 #12	109
	Wagon	8	15%	C.2 #34	108
Phase 4: - Surfacing	Excavator	2	60%	C.5 #18	108
	Wagons	8	5%	C.2 #34	108
	JCB With Pecker	1	25%	C.1 #2	120
	Breaker	1	6%	C.1 #7	121
	120 Roller	1	25%	C.2 #40	101
	140 Roller	1	25%	C.2 #39	102
	Pneumatic Tyre Roller	1	12%	C.2 #37	107
	Dumper	1	80%	C.2 #32	102
Phase 5					
Phase 5: - TM Switch NB	IPV	2	10%	C.6 #19	104
	HIAB	1	40%	C.4 #53	105
	Drill	2	5%	-	102
	Impact Driver	2	5%	-	102
Phase 5: - Reduce Dig	Excavator	2	80%	C.5 #18	108
	Large Breaker	1	20%	C.1 #9	118
	ADT	1	75%	C.1 #11	108

Task/Sub-Task	Plant And Equipment	No. Of Plant	% On Time	BS 5228 Ref.	SWL, Db(A)
	Vibrating Roller	2	40%	C.5 #22	109
	D6 Dozer	1	80%	C.2 #12	109
	Wagon	8	25%	C.2 #34	108
Phase 5: - Subbase	Excavator	2	80%	C.5 #18	108
	ADT	1	75%	C.1 #11	108
	Vibrating Roller	2	40%	C.5 #22	109
	D6 Dozer	2	80%	C.2 #12	109
	Wagon	8	15%	C.2 #34	108
	Excavator	2	80%	C.5 #18	108
	Excavator	2	80%	C.5 #18	108
Phase 5: - Drainage	Rammax	1	40%	C.5 #19	108
	Pump And Generator	1	100%	C.4 #88	96
	Dumper	1	80%	C.2 #32	102
	Wagons	1	30%	C.2 #34	108
	Excavator	2	80%	C.5 #18	108
	Excavator	2	80%	C.5 #18	108
	Rammax	1	40%	C.5 #19	108
Phase 5: - Drainage Removal	Pump And Generator	1	100%	C.4 #88	96
	Dumper	1	80%	C.2 #32	102
	Wagons	1	30%	C.2 #34	108
Phase 5: - Surfacing	Excavator	2	60%	C.5 #18	108
	Wagons	8	5%	C.2 #34	108
	JCB With Pecker	1	25%	C.1 #2	120
	Breaker	1	6%	C.1 #7	121
	120 Roller	1	25%	C.2 #40	101
	140 Roller	1	25%	C.2 #39	102
	Pneumatic Tyre Roller	1	12%	C.2 #37	107
	Dumper	1	80%	C.2 #32	102
Phase 6					
Phase 6: - TM Switch NB	IPV	2	10%	C.6 #19	104
	HIAB	1	40%	C.4 #53	105
	Drill	2	5%	-	102
	Impact Driver	2	5%	-	102
Phase 6: - Remove Temporary Widening	Planer	1	80%	C.5 #7	110
	Excavator	2	80%	C.5 #18	108
	Hydrema	2	80%	C.4 #8	84
	Large Breaker	1	25%	C.1 #9	118
Phase 6: - Remove Temporary Drainage	Excavator	2	80%	C.5 #18	108
	Large Breaker	1	20%	C.1 #9	118
	ADT	1	75%	C.1 #11	108
	Vibrating Roller	2	40%	C.5 #22	109
	D6 Dozer	1	80%	C.2 #12	109
	Wagon	8	0%	C.2 #34	108
Phase 6: - Central Res Constructed	Excavator	2	80%	C.5 #18	108
	ADT	1	75%	C.1 #11	108
	Vibrating Roller	2	40%	C.5 #22	109
	D6 Dozer	2	80%	C.2 #12	109
	Wagon	8	15%	C.2 #34	108
	Excavator	2	60%	C.5 #18	108

Task/Sub-Task	Plant And Equipment	No. Of Plant	% On Time	BS 5228 Ref.	SWL, Db(A)
Phase 6: - Final Surfacing	Wagons	8	5%	C.2 #34	108
	JCB With Pecker	1	25%	C.1 #2	120
	Breaker	1	6%	C.1 #7	121
	120 Roller	1	25%	C.2 #40	101
	140 Roller	1	25%	C.2 #39	102
	Pneumatic Tyre Roller	1	12%	C.2 #37	107
	Dumper	1	80%	C.2 #32	102
Phase 6: - Final Lining	Stud Milling Wagon	1	10%	C.10 #17	112
	Line Painting Kit	1	5%	-	28
Phase 6: - Safety Barrier	Excavator	2	50%	C.5 #18	108
	Dumper	1	80%	C.2 #32	102
	Concrete Wagon	1	5%	C.4 #20	108
Phase 6: - Topsoil Verge	D6 Dozer	3	80%	C.2 #12	109
	Excavator	1	80%	C.5 #18	108
	Wagons	4	30%	C.2 #34	108
Phase 6: - Signage & Lighting	MEWP	1	80%	C.4 #57	95
	HIAB	1	50%	C.4 #53	105
	Coring Machine	1	40%	-	106
	Excavator	1	75%	C.5 #18	108
	Dumper	1	75%	C.2 #32	102
Phase 6: - Remove All TM	IPV	2	10%	C.6 #19	104
	HIAB	1	40%	C.4 #53	105
	Drill	2	5%	-	102
	Impact Driver	2	5%	-	102
Traffic Management Works					
Traffic Management Works	HIAB	2	0.8	C.4 #53	105
	Line Painting Kit	1	0.8	-	28
	Drill	2	0.2	-	102
	Hydroblast	1	0.4	-	108

Annex B Sample of noise sensitive receptors and associated LOAEL and SOAEL levels

Annex B Sample of noise sensitive receptors and associated LOAEL and SOAEL levels

Receptor ref.	Address	Day time			Night time		
		LOAEL	BS 5228 Category	SOAEL	LOAEL	BS 5228 Category	SOAEL
R1	9 Tylney Close	68	C	75	59	Table E.1 Note 2	>59
R2	7 Tylney Close	67	B	70	58	Table E.1 Note 2	>58
R3	1 Tylney Close	63	B	70	55	C	55
R4	6 Tylney Close	65	B	70	57	Table E.1 Note 2	>57
R5	5 Tylney Close	66	B	70	58	Table E.1 Note 2	>58
R6	21 Hepworth Road	63	B	70	54	C	55
R7	27 Hepworth Road	65	B	70	57	Table E.1 Note 2	>57
R8	9 Hepworth Road	57	A	65	49	C	55
R9	23 Hepworth Road	61	A	65	53	C	55
R10	17 Hepworth Road	64	B	70	56	Table E.1 Note 2	>56
R11	35 Hepworth Road	65	B	70	57	Table E.1 Note 2	>57
R12	15 Hepworth Road	62	A	65	54	C	55
R13	39 Hepworth Road	61	A	65	53	C	55
R14	3 Tylney Close	66	B	70	57	Table E.1 Note 2	>57
R15	29 Hepworth Road	65	B	70	57	Table E.1 Note 2	>57
R16	13 Hepworth Road	64	B	70	56	Table E.1 Note 2	>56
R17	8 Tylney Close	68	C	75	59	Table E.1 Note 2	>59
R18	11 Hepworth Road	64	B	70	56	Table E.1 Note 2	>56
R19	31 Hepworth Road	64	B	70	55	C	55
R20	19 Hepworth Road	65	B	70	56	Table E.1 Note 2	>56
R21	37 Hepworth Road	61	A	65	53	C	55
R22	33 Hepworth Road	63	B	70	55	C	55
R23	25 Hepworth Road	60	A	65	52	C	55
R24	41 Hepworth Road	65	B	70	57	Table E.1 Note 2	>57

Receptor ref.	Address	Day time			Night time		
		LOAEL	BS 5228 Category	SOAEL	LOAEL	BS 5228 Category	SOAEL
R25	2 Tylney Close	64	B	70	56	Table E.1 Note 2	>56
R26	4 Tylney Close	66	B	70	57	Table E.1 Note 2	>57
R27	1 Sevilla Close	68	C	75	59	Table E.1 Note 2	>59
R28	9 Valencia Road	68	C	75	59	Table E.1 Note 2	>59
R29	1 Florence Road	68	C	75	59	Table E.1 Note 2	>59
R30	17 Valencia Road	65	B	70	57	Table E.1 Note 2	>57
R31	2 Florence Road	66	B	70	58	Table E.1 Note 2	>58
R32	1 Valencia Road	69	C	75	60	Table E.1 Note 2	>60
R33	5 Abbotsbury Close	54	A	65	47	B	50
R34	56 Gainford Rise	60	A	65	52	C	55
R35	79 Gainford Rise	56	A	65	48	C	55
R36	58 Gainford Rise	59	A	65	52	C	55
R37	46 Gainford Rise	58	A	65	50	C	55
R38	38 Gainford Rise	56	A	65	49	C	55
R39	48 Gainford Rise	58	A	65	50	C	55
R40	10 Valencia Road	62	A	65	54	C	55
R41	212 Dorchester Way	56	A	65	49	C	55
R42	208 Dorchester Way	59	A	65	51	C	55
R43	16 Sturminster Close	55	A	65	48	C	55
R44	210 Dorchester Way	58	A	65	50	C	55
R45	54 Gainford Rise	57	A	65	50	C	55
R46	10 Royston Close	57	A	65	49	C	55
R47	8 Royston Close	57	A	65	49	C	55
R48	18 Royston Close	55	A	65	48	C	55
R49	18 Sturminster Close	55	A	65	48	C	55
R50	52 Gainford Rise	59	A	65	51	C	55
R51	36 Gainford Rise	54	A	65	47	B	50
R52	64 Gainford Rise	60	A	65	52	C	55
R53	12 Faygate Close	56	A	65	49	C	55
R54	42 Gainford Rise	55	A	65	48	C	55
R55	81 Gainford Rise	56	A	65	49	C	55
R56	60 Gainford Rise	56	A	65	48	C	55
R57	40 Gainford Rise	57	A	65	50	C	55

Receptor ref.	Address	Day time			Night time		
		LOAEL	BS 5228 Category	SOAEL	LOAEL	BS 5228 Category	SOAEL
R58	17 Royston Close	56	A	65	48	C	55
R59	15 Royston Close	56	A	65	48	C	55
R60	6 Royston Close	56	A	65	48	C	55
R61	12 Royston Close	57	A	65	49	C	55
R62	16 Royston Close	55	A	65	48	C	55
R63	19 Royston Close	57	A	65	49	C	55
R64	17 Sturminster Close	55	A	65	48	C	55
R65	15 Sturminster Close	55	A	65	48	C	55
R66	85 Gainford Rise	57	A	65	49	C	55
R67	62 Gainford Rise	60	A	65	52	C	55
R68	50 Gainford Rise	58	A	65	50	C	55
R69	83 Gainford Rise	55	A	65	48	C	55
R70	14 Royston Close	56	A	65	49	C	55
R71	4 Valencia Road	62	A	65	54	C	55
R72	2 Sevilla Close	70	C	75	61	Table E.1 Note 2	>61
R73	15 Valencia Road	65	B	70	56	Table E.1 Note 2	>56
R74	13 Valencia Road	65	B	70	56	Table E.1 Note 2	>56
R75	2 Valencia Road	61	A	65	53	C	55
R76	10 Abbotsbury Close	56	A	65	48	C	55
R77	15 Abbotsbury Close	55	A	65	48	C	55
R78	8 Abbotsbury Close	55	A	65	47	B	50
R79	18 Bridport Close	55	A	65	47	B	50
R80	9 Abbotsbury Close	55	A	65	47	B	50
R81	17 Bridport Close	55	A	65	47	B	50
R82	6 Abbotsbury Close	55	A	65	47	B	50
R83	14 Abbotsbury Close	54	A	65	47	B	50
R84	11 Abbotsbury Close	52	A	65	45	B	50
R85	16 Bridport Close	55	A	65	47	B	50
R86	16 Abbotsbury Close	55	A	65	48	C	55
R87	7 Abbotsbury Close	55	A	65	47	B	50
R88	12 Abbotsbury Close	56	A	65	48	C	55
R89	14 Bridport Close	55	A	65	47	B	50
R90	9 Bridport Close	55	A	65	48	C	55

Receptor ref.	Address	Day time			Night time		
		LOAEL	BS 5228 Category	SOAEL	LOAEL	BS 5228 Category	SOAEL
R91	9 Fontmell Close	55	A	65	47	B	50
R92	6 Fontmell Close	55	A	65	47	B	50
R93	15 Fontmell Close	55	A	65	48	C	55
R94	178 Dorchester Way	55	A	65	48	C	55
R95	192 Dorchester Way	61	A	65	53	C	55
R96	204 Dorchester Way	61	A	65	53	C	55
R97	196 Dorchester Way	61	A	65	53	C	55
R98	9 Sturminster Close	57	A	65	49	C	55
R99	202 Dorchester Way	61	A	65	53	C	55
R100	218 Dorchester Way	58	A	65	50	C	55
R101	206 Dorchester Way	62	A	65	53	C	55
R102	214 Dorchester Way	55	A	65	48	C	55
R103	184 Dorchester Way	56	A	65	49	C	55
R104	194 Dorchester Way	61	A	65	53	C	55
R105	182 Dorchester Way	59	A	65	51	C	55
R106	14 Sturminster Close	55	A	65	48	C	55
R107	10 Sturminster Close	55	A	65	48	C	55
R108	198 Dorchester Way	61	A	65	53	C	55
R109	11 Faygate Close	58	A	65	51	C	55
R110	180 Dorchester Way	56	A	65	48	C	55
R111	200 Dorchester Way	61	A	65	53	C	55
R112	216 Dorchester Way	61	A	65	53	C	55
R113	11 Sturminster Close	55	A	65	48	C	55
R114	160 Clifford Bridge Road	67	B	70	58	Table E.1 Note 2	>58
R115	12 Fontmell Close	55	A	65	47	B	50
R116	14 Fontmell Close	55	A	65	47	B	50
R117	10 Fontmell Close	55	A	65	48	C	55
R118	11 Fontmell Close	55	A	65	47	B	50
R119	8 Valencia Road	63	B	70	55	C	55

Receptor ref.	Address	Day time			Night time		
		LOAEL	BS 5228 Category	SOAEL	LOAEL	BS 5228 Category	SOAEL
R120	188 Dorchester Way	53	A	65	46	B	50
R121	220 Dorchester Way	61	A	65	53	C	55
R122	186 Dorchester Way	55	A	65	47	B	50
R123	7 Sturminster Close	57	A	65	49	C	55
R124	162 Clifford Bridge Road	65	B	70	57	Table E.1 Note 2	>57
R125	7 Fontmell Close	55	A	65	47	B	50
R126	6 Valencia Road	63	B	70	54	C	55
R127	8 Fontmell Close	55	A	65	47	B	50
R128	16 Fontmell Close	55	A	65	47	B	50
R129	12 Sturminster Close	55	A	65	48	C	55
R130	190 Dorchester Way	58	A	65	51	C	55
R131	8 Sturminster Close	48	A	65	41	A	45
R132	49 Halls Drive	53	A	65	46	B	50
R133	15 Bridport Close	55	A	65	47	B	50
R134	12 Bridport Close	54	A	65	47	B	50
R135	7 Bridport Close	55	A	65	48	C	55
R136	8 Bridport Close	54	A	65	47	B	50
R137	11 Bridport Close	54	A	65	47	B	50
R138	10 Bridport Close	55	A	65	47	B	50
R139	185 Clifford Bridge Road	66	B	70	57	Table E.1 Note 2	>57
R140	35 Keswick Walk	61	A	65	53	C	55
R141	31 Keswick Walk	59	A	65	51	C	55
R142	83 Dorchester Way	58	A	65	50	C	55
R143	19 Sturminster Close	54	A	65	47	B	50
R144	24 Sturminster Close	51	A	65	44	B	50
R145	29 Keswick Walk	59	A	65	51	C	55
R146	23 Sturminster Close	54	A	65	47	B	50
R147	6 Sturminster Close	52	A	65	45	B	50
R148	187 Clifford Bridge Road	66	B	70	57	Table E.1 Note 2	>57
R149	33 Keswick Walk	60	A	65	52	C	55
R150	17 Keswick Walk	65	B	70	56	Table E.1 Note 2	>56
R151	37 Keswick Walk	64	B	70	56	Table E.1 Note 2	>56

Receptor ref.	Address	Day time			Night time		
		LOAEL	BS 5228 Category	SOAEL	LOAEL	BS 5228 Category	SOAEL
R152	21 Sturminster Close	54	A	65	47	B	50
R153	Hungerly Hall Farmhouse	66	B	70	57	Table E.1 Note 2	>57