

# A46 Coventry Junctions (Walsgrave) Scheme number: TR010066

# 6.3 Environmental Statement Appendices Appendix 11.5 Construction Noise Assessment

APFP Regulations 5(2)(a)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

Volume 6



#### Infrastructure Planning

Planning Act 2008

The Infrastructure Planning (Applications: Prescribed Forms and Procedure)
Regulations 2009

## **A46 Coventry Junctions (Walsgrave)**

Development Consent Order 202[x]

# ENVIRONMENTAL STATEMENT APPENDICES Appendix 11.5 Construction Noise Assessment

Regulation Number	Regulation 5(2)(a)
Planning Inspectorate Scheme	TR010066
Reference	
Application Document Reference	TR010066/APP/6.3
Author	A46 Coventry Junctions (Walsgrave), Project Team & National Highways

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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	Works area	Indicative main construction activities & other notes
phase		(refer to Annex A for individual plant items)
Pre- commencement	A46	Create construction access areas (night works)
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



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Construction	Works area	Indicative main construction activities & other notes
phase		(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,
	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 2	A46 northbound	Traffic management switch
	Northbound carriageway	Excavation existing carriageway, capping, sub base, drainage, drainage removal, concrete barrier, surfacing, lighting and signs
Phase 3	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 4	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 A46 southbound	TM switch  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 LA10,18h to LAeq,16hour and Lnight.
- 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 LAeq,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	•	-

<sup>&</sup>lt;sup>1</sup> TAG Unit A3 Environmental Impact Appraisal, 2024, Department for Transport



Phase	Time period	Area/activity	Receptor	Predicted facade noise LAeq,T levels (dB,	Magnitude of impact (without mitigation)
				integer rounded)	
	Night-time	Create construction accesses off A46 and B4082	R52 R153	53 60	Major Major
			R34 R36 R37 R38 R39 R45 R47 R50 R51 R54 R56 R57 R60 R67 R68 R71 R75 R89 R90	52 52 51 52 51 51 51 52 50 51 49 52 51 52 51 52 51 52 51 52 51 52 51 49 52 51 49 52 51 51 52 51 51 52 51 51 52 51 51 52 51 52 51 51 52 51 52 51 52 51 52 51 52 51 52 51 52 51 52 51 52 51 52 52 52 52 52 52 52 52 52 52 52 52 52	Moderate
Phase 1 / Phase 1a	Daytime	North-west: Sub base	R153	72	Moderate
		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			



Phase	Time period	Area/activity	Receptor	Predicted facade noise LAeq,T levels (dB, integer rounded)	Magnitude of impact (without mitigation)
		East REW construction: Foundation  Deck construction: edge shutters and stop end			
	Night-time	Carriageway slip roads: surfacing  Pedestrian crossing: excavate	R46 R47 R48 R53 R58 R59 R60 R61 R62 R63 R70 R97 R104 R108 R109 R111 R124 R139 R148	57 57 58 60 59 58 56 58 58 60 58 52 52 52 52 63 60 61	Major
			R34 R36 R37 R38 R42 R44 R50 R51 R54 R57 R68 R76 R79 R81 R85 R89 R90 R95 R96 R99 R114 R120 R130 R133 R134 R136 R137	51 51 52 52 52 52 52 51 53 54 52 50 50 50 50 50 50 50 52 52 52 52 52 50 50 50 50 50 50 50 50 50 50 50 50 50	Moderate



Phase	Time	Area/activity	Receptor	Predicted	Magnitude
riidse	period	Alea/activity		facade noise L <sub>Aeq,T</sub> levels (dB, integer rounded)	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	Moderate 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 56 58 57 57	Moderate



# **Annex A Construction plant assumptions**

Annex A Construction plant assumptions

Task/Sub-Task	Plant And	No. Of	% On Time	BS 5228	SWL, Db(A)
	Equipment	Plant		Ref.	
Pre-Commencement Wo				_	_
Pre-Commencement Works: Create	Excavator	2	60%	C.5 #18	108
	Wagons	8	5%	C.2 #34	108
Construction Access Off	JCB With Pecker	1	25%	C.1 #2	120
A46 Laybys	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	Excavator	2	60%	C.5 #18	108
Works: Create	Wagons	8	5%	C.2 #34	108
Construction Access Off	JCB With Pecker	1	25%	C.1 #2	120
B4082	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	Excavator	2	80%	C.5 #18	108
Works: Site Clearance	Chipper	2	40%	-	111
Trees & Shrubs Out Of	Flail	1	40%	C.2 #5	104
Season 1	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	Excavator	2	80%	C.5 #18	108
Works: Site Clear Trees	Chipper	2	40%	-	111
& Shrubs Out Of Season	Flail	1	40%	C.2 #5	104
2	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	Excavator	2	80%	C.5 #18	108
Works: Site Clear Trees	Chipper	2	40%	-	111
& Shrubs Out Of Season	Flail	1	40%	C.2 #5	104
Remaining Areas 1	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	Excavator	2	80%	C.5 #18	108
Works: Site Clear Trees	Chipper	2	40%	-	111
& Shrubs Out Of Season	Flail	1	40%	C.2 #5	104
Remaining Areas 2	Tracked Mulching Machine	1	50%	C.2 #3	106
	Strimmer	2	25%	_	110



Task/Sub-Task	Plant And	No. Of	% On Time	BS 5228	SWL, Db(A)
Task/Sub-Task	Equipment	Plant	/6 OII TIIIIE	Ref.	SVVL, DD(A)
	Flatbed	1	5%	C.2 #26	107
	Chainsaw	2	20%	-	116
Pre-Commencement	Post Knocker	1	50%	C.2 #6	91
Works: Temp / Perm	Nail Gun	2	80%	C.4 #95	101
Boundary Fencing	Dumper	1	80%	C.2 #32	102
	Excavator	1	80%	C.5 #18	108
	Flatbed	1	5%	C.2 #26	107
Pre-Commencement	Excavator	1	80%	C.5 #18	107
Works: Compound -	Large Breaker	1	15%	C.1 #9	118
Topsoil Strip	ADT	1	80%	C.1 #11	108
Pre-Commencement	Excavator	2	80%	C.5 #18	108
Works: Compound - Cut	Large Breaker	1	20%	C.1 #9	118
And Fill	ADT	1	75%	C.1 #11	108
7.11.0 1 111	Vibrating Roller	2	40%	C.5 #22	109
	D6 Dozer	1	80%	C.5 #22 C.2 #12	109
		8	30%	C.2 #12	108
Pre-Commencement	Wagon Excavator	2	80%	C.2 #34 C.5 #18	108
Works: Compound -		1	20%	C.5 #16	118
Capping Layer	Large Breaker ADT	1	75%	C.1 #9	108
Capping Layer					
	Vibrating Roller	2	40%	C.5 #22	109
	D6 Dozer	1	80%	C.2 #12	109
D O	Wagons	8	30%	C.2 #34	108
Pre-Commencement	Excavator	2	80%	C.5 #18	108
Works: Compound - Temporary Drainage	Excavator	2	80%	C.5 #18	108
remporary Dramage	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	Excavator	1	80%	C.5 #18	108
Works: Compound -	Rammax	1	40%	C.5 #19	108
Ducting	Dumper	1	80%	C.2 #32	102
Pre-Commencement	Excavator	2	80%	C.5 #18	108
Works: Compound - Sub	ADT	1	75%	C.1 #11	108
Base	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	Road Paver	1	60%	C.5 #31	105
Works: Compound -	Wagons	6	5%	C.2 #34	108
Surfacing	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	I Francisco		000/	0.5.440	100
Phase 1: North-West -	Excavator	2	80%	C.5 #18	108
Site Clearance	Chipper	2	40%	-	111
	Flail	1	40%	C.2 #5	104
	Tracked Mulching Machine	1	50%	C.2 #3	106



				DO 7000	DI (A)
Task/Sub-Task	Plant And	No. Of	% On Time	BS 5228	SWL, Db(A)
	Equipment Strimmer	Plant	25%	Ref.	110
		2		- 0 #06	107
	Flatbed	1	5%	C.2 #26	
Discount North Most	Chainsaw	2	20%	0	116
Phase 1: North-West -	Excavator	1	80%	C.5 #18	108
Topsoil Strip	Large Breaker	1	15%	C.1 #9	118
	ADT	1	80%	C.1 #11	108
Phase 1: North-West -	Excavator	2	80%	C.5 #18	108
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
	Wagon	8	30%	C.2 #34	108
Phase 1: North-West -	Excavator	2	80%	C.5 #18	108
Capping Layer	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 -	Excavator	2	80%	C.5 #18	108
Filter Drainage	Excavator	2	80%	C.5 #18	108
	Rammax	1	40%	C.5 #19	108
	Dumper	1	80%	C.2 #32	102
	Pump And	1	100%	C.4 #88	96
	Generator	1	1.0070	0.1 #66	
	Wagons	3	30%	C.2 #34	108
Phase 1: North-West -	Excavator	2	80%	C.5 #18	108
Drainage Removal	Excavator	2	80%	C.5 #18	108
a a go i iomo i a	Rammax	1	40%	C.5 #19	108
	Dumper	1	80%	C.2 #32	102
	Pump And	1	100%	C.4 #88	96
	Generator	1'	10078	0.4 #00	30
	Wagons	3	30%	C.2 #34	108
Phase 1: North-West -	Excavator	1	80%	C.5 #18	108
Ducting	Rammax	1	40%	C.5 #19	108
Dadiiiig	Dumper	1	80%	C.2 #32	102
Phase 1: North-West -	Excavator	2	80%	C.5 #18	108
Sub Base	ADT	1	75%	C.5 #16	108
Sub base		2	40%		109
	Vibrating Roller			C.5 #22	
	D6 Dozer	2	80%	C.2 #12	109
DI 4 N 11 N/4 1	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 -	Road Paver	1	60%	C.5 #31	105
Surfacing	Wagons	6	5%	C.2 #34	108
g and g	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	1	12%	C.2 #37	107
	Roller	•	/-		



Took/Cub Took	Plant And	No Of	% On Time	BS 5228	CWI Db(A)
Task/Sub-Task	Equipment	No. Of Plant	% On Time	Ref.	SWL, Db(A)
	Dumper	1	80%	C.2 #32	102
Phase 1: North-West -	Excavator	1	80%	C.5 #18	108
VRS Barrier		1	5%	C.5 #16 C.4 #20	108
VIIO Damei	Concrete Wagon Breaker	1	6%	C.4 #20	121
Phase 1: North-West -	Stud Milling Wagon	1	10%	C.1 #17	112
Lining	Line Painting Kit	1	5%	O.1 #17	28
Phase 1: North-West -	MEWP	1	80%	C.4 #57	95
Lighting Installation	HIAB	1	50%	C.4 #57	105
Lighting installation	Coring Machine	1	40%	0.4 #33	106
Phase 1: North-West -	MEWP	1	80%	C.4 #57	95
Signage	HIAB	1	50%	C.4 #57	105
Signage		1	40%	-	106
	Coring Machine Excavator	1	75%	C.5 #18	108
	Dumper	1	75%	C.2 #32	102
Phase 1: Open New Slip	Traffic Management	1	100%	_	109
Roads As South Of A46	Trainic Management		100 /6	-	109
Phase 1: South-West -	Excavator	2	80%	C.5 #18	108
Site Clearance	Chipper	2	40%	-	111
one crearance	Flail	1	40%	C.2 #5	104
	Tracked Mulching	1	50%	C.2 #3	106
	Machine	!	30 /8	0.2 #3	100
	Strimmer	2	25%	_	110
	Chainsaw	2	20%	_	116
Phase 1: South-West -	Excavator	1	80%	C.5 #18	108
Topsoil Strip	Large Breaker	1	15%	C.1 #9	118
r open on p	ADT	1	80%	C.1 #11	108
Phase 1: South-West -	Excavator	2	80%	C.5 #18	108
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-West -	Excavator	2	80%	C.5 #18	108
Capping Layer	Large Breaker	1	20%	C.1 #9	118
1-1- 37 -	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 -	D6 Dozer	3	80%	C.2 #12	109
Topsoil Verges	Excavator	1	80%	C.5 #18	108
i - 9	Wagons	4	30%	C.2 #34	108
Phase 1: South-West -	Piling Rig	1	80%	C.3 #16	107
Piling	Mobile Crane	1	80%	C.3 #28	95
J	11700110 010110	<u> </u>	3373	5.5 ,, 20	
Phase 1: South-West -	Excavator	1	80%	C.5 #18	108
Capping Beam	Mobile Concrete	1	80%	C.4 #28	103
1-1 8 — 620	Pump	[ '	1 33 /3	0.7 1120	
	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



Pass 1: South-West - Filter Drainage   Facing   Facing	Tools/Out Tools	Dlant And	No. Of	o/ On Time	DC 5000	CMI DIV(A)
Phase 1 : South-West - Facing	Task/Sub-Task			% On Time		SWL, DD(A)
Facing   Phase 1: South-West - Pitter Drainage   Excavator   2   80%   C.5 #18   108	Phase 1: South West			900/		100
Phase 1: South-West -   Excavator   2   80%   C.5 #18   108		LACAVAIOI	'	00 /8	0.5 #10	100
Filter Drainage		Excavator	2	80%	C 5 #18	108
Rammax						
Pump And Generator   1	1 mor Bramago					
Phase 1: South-West - Dumper						
Dumper			'	100 /8	0.4 #00	30
Phase 1: South-West - Drainage Removal			1	80%	C 2 #32	102
Phase 1: South-West - Drainage Removal   Excavator   2   80%   C.5 #18   108   Excavator   1   40%   C.5 #19   108   Excavator   1   80%   C.2 #32   102   Excavator   1   80%   C.5 #18   108   Excavator   1   80%   C.5 #18   108   Excavator   1   80%   C.5 #19   108   Excavator   1   80%   C.5 #19   108   Excavator   1   80%   C.5 #19   108   Excavator   2   80%   C.5 #18   108   Excavator   2   80%   C.5 #19   118   Excavator   2   80%   C.2 #12   109   Excavator   2   80%   C.2 #18   108   Excavator   2   80%   C.2 #18   109   Excavator   1   80%   C.2 #13   100   Excavator   1   80%   C.2 #13   100   Excavator   1   80%   C.2 #13   101   Excavator   1   80%   C.2 #18   108   Excavator   2   80%   C.5 #		_				
Drainage Removal   Excavator   2   80%   C.5 #18   108   Rammax   1   40%   C.5 #19   108   Pump And   1   100%   C.4 #88   96   Rammax   1   40%   C.5 #19   108   Pump And   1   100%   C.2 #32   102   Phase 1: South-West - Ducting   Rammax   1   40%   C.5 #18   108   Phase 1: Farm Access   Excavator   2   80%   C.2 #32   102   Phase 1: Farm Access   Excavator   2   80%   C.5 #18   108   Phase 1: Farm Access   Excavator   2   80%   C.5 #18   108   Phase 1: Farm Access   Excavator   2   40%   C.5 #22   109   Phase 1: Farm Access   Excavator   2   40%   C.5 #22   109   Phase 1: Farm Access   Excavator   2   80%   C.2 #34   108   Excavator   2   80%   C.5 #18   108   Phase 1: Farm Access   Excavator   2   80%   C.5 #18   108   Phase 1: Farm Access   Excavator   2   80%   C.5 #18   108   Phase 1: Farm Access   Excavator   2   80%   C.5 #18   108   Phase 1: Attenuation   Post Knocker   1   75%   C.1 #11   108   Phase 1: Attenuation   Post Knocker   1   50%   C.2 #32   109   Phase 1: Pond 1 - Excavator   2   80%   C.5 #18   108   Phase 1: Pond 1 - Excavator   2   80%   C.5 #18   108   Phase 1: Pond 1 - Excavator   2   80%   C.5 #18   108   Phase 1: Pond 1 - Excavator   2   80%   C.5 #18   108   Phase 1: Pond 1 - Excavator   2   80%   C.5 #18   108   Phase 1: Pond 1 - Excavator   2   80%   C.5 #18   108   Phase 1: Pond 1 - Excavator   2   80%   C.5 #18   108   Phase 1: Pond 1 - Excavator   2   80%   C.5 #18   108   Phase 1: Pond 1 - Excavator   2   80%   C.5 #18   108   Phase 1: Pond 1 - Excavator   2   80%   C.5 #18   108   Phase 1: Pond 1 - Excavator   2   80%   C.5 #18   108   Phase 1: Pond 1 - Excavator   2   80%   C.5 #18   108   Phase 1: Pond 1 - Excavator   2   80%   C.5 #18   108   Phase 1: Pond 1 - Excavator   2   80%   C.5 #18   108   Phase 1: Pond 1 - Excavator   2   80%   C.5 #18   108   Phase 1: Pond 1 - Excavator   2   80%   C.5 #18   108   Phase 1: Pond 1 - Excavator   2   80%   C.5 #18   108   Phase 1: Pond 1 - Excavator   1   80%   C.2 #32   102   Phase 1: Pond 2 - Post Knocker   1   80%   C.2 #12	Phase 1: South-West -			_		
Rammax						
Pump And Generator   1						
Generator						
Dumper			'	1.0070	0.1 #66	
Phase 1: South-West -   Excavator   1   80%   C.5 #18   108			1	80%	C.2 #32	102
Phase 1: South-West - Ducting						
Ducting	Phase 1: South-West -					
Dumper						
Phase 1: Farm Access   Excavator   2   80%   C.5 #18   108						
Large Breaker	Phase 1: Farm Access					
ADT						
Vibrating Roller   2   40%   C.5 #22   109	1					
D6 Dozer				_		
Wagon				_		
Phase 1: Farm Access   Excavator   2   80%   C.5 #18   108						
ADT	Phase 1: Farm Access			_		
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 -         Excavator         2         80%         C.5 #18         108           Excavation         2         80%         C.1 #11         108           Phase 1: Pond 1 -         Excavator         2         80%         C.5 #18         108           Excavator         2         80%         C.5 #18         108           Phase 1: Pond 1 -         Excavator         2         80%         C.5 #18         108           Phase 1: Pond 1 - Lining         Welding Gun / Welding Gun / Welding Rig         Welding Gun / Welding Rig         40%         C.2 #32         102           Phase 1: Pond 1 - Soiling         D6 Dozer         3         80%         C.2 #12         109           Excavator         1         80%         C.5 #18         108           Phase 1: Pond 2						
Pond - Fencing	Phase 1: Attenuation					
Dumper						
Excavator   1				_		
Flatbed						
Phase 1: Pond 1 - Excavator   2   80%   C.5 #18   108		Flathed				-
ADT   2   80%   C.1 #11   108	Phase 1: Pond 1 -					
Roller - Sheeps   1						
Phase 1: Pond 1 - Drainage				_		
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         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 -         Post Knocker         1         50%         C.2 #6         91		!	'	1070	0.2 #66	101
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 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 -         Post Knocker         1         50%         C.2 #6         91	Phase 1: Pond 1 -		2	80%	C.5 #18	108
Rammax						
Pump And Generator   1   100%   C.4 #88   96						
Generator				_		
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 -     Post Knocker     1     50%     C.2 #6     91			'	1.5575	3.7 ,, 30	
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 -     Post Knocker     1     50%     C.2 #6     91			1	80%	C.2 #32	102
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 -         Post Knocker         1         50%         C.2 #6         91						
Welding Rig       Both Common 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 -       Post Knocker       1       50%       C.2 #6       91	Phase 1: Pond 1 - Lining					
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 -     Post Knocker     1     50%     C.2 #6     91			[ ]	1.0,0		
Excavator         1         80%         C.5 #18         108           ADT         1         80%         C.1 #11         108           Phase 1: Pond 2 -         Post Knocker         1         50%         C.2 #6         91	Phase 1: Pond 1 - Soiling		3	80%	C.2 #12	109
ADT 1 80% C.1 #11 108  Phase 1: Pond 2 - Post Knocker 1 50% C.2 #6 91						
Phase 1: Pond 2 -         Post Knocker         1         50%         C.2 #6         91						
	Phase 1: Pond 2 -			_		
	Fencing	Nail Gun	2	80%	C.4 #95	101



Task/Sub-Task	Plant And	No. Of	% On Time	BS 5228	SWL, Db(A)
Task/Sub-Task	Equipment	Plant	% On Time	Ref.	SWL, DD(A)
	Dumper	1	80%	C.2 #32	102
	Excavator	1 1	80%	C.5 #18	108
	Flatbed	1 1	5%	C.2 #26	107
Phase 1: Pond 2 -	Excavator	2	80%	C.2 #26	108
Excavation	ADT	2	80%	C.5 #16	108
LXCavation	Roller - Sheeps	1	40%	C.1 #11	101
	Foot				
Phase 1: Pond 2 -	Excavator	2	80%	C.5 #18	108
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 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
Filase 1. Folio 2 - Solling	Excavator	1	80%	C.5 #18	108
	ADT	1	80%	C.5 #16	108
Phase 1: WQ Pond -	Post Knocker	<del>                                     </del>	50%	C.2 #6	91
Finase 1. WQ Fond - Fencing	Nail Gun	2	80%	C.2 #6 C.4 #95	101
rending					102
	Dumper	1	80%	C.2 #32	<b>.</b>
	Excavator	1	80%	C.5 #18	108
Dhara 4 MO Baad	Flatbed	1	5%	C.2 #26	107
Phase 1: WQ Pond -	Excavator	2	80%	C.5 #18	108
Excavation	ADT	2	80%	C.1 #11	108
	Roller - Sheeps Foot	1	40%	C.2 #38	101
Phase 1: WQ Pond -	Excavator	2	80%	C.5 #18	108
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 1: WQ Pond -	D6 Dozer	3	80%	C.2 #12	109
Soiling	Excavator	1	80%	C.5 #18	108
	ADT	1	80%	C.1 #11	108
Phase 1: Carriageway	Excavator	2	80%	C.5 #18	108
Slip Road1 - Sub Base	ADT	1	75%	C.1 #11	108
Cup House Cas Lass	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	Excavator With	1	40%	- σ.σ πΔ1	113
Slip Road1 - Kerbs	Vacuum Lift			0.0 #00	
	Dumper	1	80%	C.2 #32	102
D	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



Took/Sub Took	Plant And	No Of	9/ On Time	BS 5228	CWI Db(A)
Task/Sub-Task	Equipment	No. Of Plant	% On Time	Ref.	SWL, Db(A)
Phase 1: Carriageway	Wagons	8	15%	C.2 #34	108
Slip Road1 - Surfacing	JCB With Pecker	1	25%	C.1 #2	120
(Days)	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	1	12%	C.2 #37	107
	Roller				
	Dumper	1	80%	C.2 #32	102
Phase 1: Carriageway	Excavator	1	80%	C.5 #18	108
Slip Road1 - VRS Barrier	Concrete Wagon	1	5%	C.4 #20	108
	Breaker	1	6%	C.1 #7	121
Phase 1: Carriageway	Stud Milling Wagon	1	10%	C.10 #17	112
Slip Road1 - Lining	Line Painting Kit	1	5%	-	28
Phase 1: Verge Works1 -	MEWP	1	80%	C.4 #57	95
Lighting Installation	HIAB	1	50%	C.4 #53	105
	Coring Machine	1	40%	-	106
Phase 1: Verge Works1 -	MEWP	1	80%	C.4 #57	95
Signage	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	Excavator	2	80%	C.5 #18	108
West - Sub Base	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
West Reibs	Dumper	1	60%	C.2 #32	102
	Concrete Wagon	1	5%	C.4 #20	108
Phase 1: Roundabout	Road Paver	1	60%	C.5 #31	105
West - Surfacing	Wagons	6	5%	C.2 #34	108
vvest carraonig	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	1	12%	C.2 #37	107
	Roller	1	80%	C 2 #22	102
Phase 1: Roundabout	Dumper	1		C.2 #32	<u> </u>
West - VRS Barrier	Excavator Concrete Wagen	1	80% 5%	C.5 #18 C.4 #20	108
VVCSt - VITO DAITICI	Concrete Wagon Breaker	1	6%	C.4 #20 C.1 #7	108 121
Phono 1: Poundahaut					<u> </u>
Phase 1: Roundabout West - Lining	Stud Milling Wagon	1	10%	C.10 #17	112
	Line Painting Kit	2	5%	- C 5 #10	28
Phase 1: North East - Site Clearance	Excavator		80%	C.5 #18	108
OILE OIEAIAIICE	Chipper	2	40%	- 0 #5	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



Table Oak Table	Discut Acad	N- Of	0/ On Time	DO 5000	OWI DI (A)
Task/Sub-Task	Plant And Equipment	No. Of Plant	% On Time	BS 5228 Ref.	SWL, Db(A)
Phase 1: North East -	Excavator	1	80%	C.5 #18	108
Topsoil Strip	Large Breaker	1	15%	C.1 #9	118
Toposii Guip	ADT	1	80%	C.1 #11	108
Phase 1: North East -	Excavator	2	80%	C.5 #18	108
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: North East -	Excavator	2	80%	C.5 #18	108
Capping Layer	Large Breaker	1	20%	C.1 #9	118
capping Layor	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 -	D6 Dozer	3	80%	C.2 #12	109
Topsoil Verges	Excavator	1	80%	C.5 #18	108
Topson verges	Wagons	4	30%	C.2 #34	108
Phase 1: North East -	Excavator	2	80%	C.5 #18	108
Filter Drainage	Excavator	2	80%	C.5 #18	108
Tiller Dramage	Rammax	1	40%	C.5 #19	108
		1	100%	C.5 #19	96
	Pump And Generator	'	100%	0.4 #00	90
	Dumper	1	80%	C.2 #32	102
	Wagons	3	30%	C.2 #34	108
Phase 1: North East -	Excavator	2	80%	C.5 #18	108
Drainage Removal	Excavator	2	80%	C.5 #18	108
	Rammax	1	40%	C.5 #19	108
	Pump And	1	100%	C.4 #88	96
	Generator				
	Dumper	1	80%	C.2 #32	102
	Wagons	3	30%	C.2 #34	108
Phase 1: North East -	Excavator	1	80%	C.5 #18	108
Ducting	Rammax	1	40%	C.5 #19	108
	Dumper	1	80%	C.2 #32	102
Phase 1: Carriageway	Excavator	2	80%	C.5 #18	108
Slip Road2 - Sub Base	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	Excavator With	1	40%	-	113
Slip Road2 - Kerbs	Vacuum Lift				
	Dumper	1	80%	C.2 #32	102
	Concrete Wagon	1	5%	C.4 #20	108
Phase 1: Carriageway	Road Paver	1	60%	C.5 #31	105
Slip Road2 - Surfacing	Wagons	8	15%	C.2 #34	108
(Nights)	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	1	12%	C.2 #37	107
	Roller				



Task/Sub-Task	Plant And	No. Of	% On Time	BS 5228	SWL, Db(A)
rask/Sub-rask	Equipment	Plant	/0 OII TIIIIC	Ref.	OVIL, DD(A)
	Dumper	1	80%	C.2 #32	102
Phase 1: Carriageway	Road Paver	1	60%	C.5 #31	105
Slip Road2 - Surfacing	Wagons	8	15%	C.2 #34	108
(Days)	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	Road Paver	1	60%	C.5 #31	105
Slip Road2 - Surfacing	Wagons	8	15%	C.2 #34	108
(Nights)	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	Excavator	1	80%	C.5 #18	108
Slip Road2 - VRS Barrier	Concrete Wagon	1	5%	C.4 #20	108
	Breaker	1	6%	C.1 #7	121
Phase 1: Carriageway	Road Paver	1	60%	C.5 #31	105
Slip Road2 - Ramps To	Wagons	8	10%	C.2 #34	108
Existing	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 -	MEWP	1	80%	C.4 #57	95
Lighting Installation	HIAB	1	50%	C.4 #53	105
	Coring Machine	1	40%	-	106
Phase 1: Verge Works2 -	MEWP	1	80%	C.4 #57	95
Signage	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 -	Excavator	2	80%	C.5 #18	108
Site Clearance	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 -	Excavator	1	80%	C.5 #18	108
Topsoil Strip	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	No. Of	% On Time	BS 5228	SWL, Db(A)
Tusk/oub-Tusk	Equipment	Plant	/0 OII TIME	Ref.	OWL, DB(A)
Phase 1: South East -	Large Breaker	1	20%	C.1 #9	118
Cut And Fill	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 -	Excavator	2	80%	C.5 #18	108
Capping Layer	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 -	D6 Dozer	3	80%	C.2 #12	109
Topsoil Verges	Excavator	1	80%	C.5 #18	108
3	Wagons	4	30%	C.2 #34	108
Phase 1: South East -	Excavator	2	80%	C.5 #18	108
Filter Drainage	Excavator	2	80%	C.5 #18	108
	Rammax	1	40%	C.5 #19	108
	Pump And	1	100%	C.4 #88	96
	Generator	'	10070	0.1 #00	
	Dumper	1	80%	C.2 #32	102
	Wagons	3	30%	C.2 #34	108
Phase 1: South East -	Excavator	2	80%	C.5 #18	108
Drainage Removal	Excavator	2	80%	C.5 #18	108
S	Rammax	1	40%	C.5 #19	108
	Pump And	1	100%	C.4 #88	96
	Generator		1.0070		
	Dumper	1	80%	C.2 #32	102
	Wagons	3	30%	C.2 #34	108
Phase 1: South East -	Excavator	1	80%	C.5 #18	108
Ducting	Rammax	1	40%	C.5 #19	108
_	Dumper	1	80%	C.2 #32	102
Phase 1: Carriageway	Excavator	2	80%	C.5 #18	108
Slip Road3 - Sub Base	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	Excavator With	1	40%	-	113
Slip Road3 - Kerbs	Vacuum Lift				
	Dumper	1	80%	C.2 #32	102
	Concrete Wagon	1	5%	C.4 #20	108
Phase 1: Carriageway	Road Paver	1	60%	C.5 #31	105
Slip Road3 - Surfacing	Wagons	8	15%	C.2 #34	108
(Days)	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	Road Paver	1	60%	C.5 #31	105
Slip Road3 - Surfacing	Wagons	8	15%	C.2 #34	108
(Nights)	JCB With Pecker	1	25%	C.1 #2	120



					T
Task/Sub-Task	Plant And	No. Of	% On Time	BS 5228	SWL, Db(A)
	Equipment	Plant	221	Ref.	101
	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	1	12%	C.2 #37	107
	Roller	_	000/	0.0.400	100
<u> </u>	Dumper	1	80%	C.2 #32	102
Phase 1: Carriageway	Excavator	1	80%	C.5 #18	108
Slip Road3 - VRS Barrier	Concrete Wagon	1	5%	C.4 #20	108
DI 1 0 :	Breaker	1	6%	C.1 #7	121
Phase 1: Carriageway	Stud Milling Wagon	1	10%	C.10 #17	112
Slip Road3 - Lining	Line Painting Kit	1	5%	-	28
Phase 1: Verge Works3 -	MEWP	1	80%	C.4 #57	95
Lighting Installation	HIAB	1	50%	C.4 #53	105
DI 11/1 11/1 1	Coring Machine	1	40%	-	106
Phase 1: Verge Works3 -	MEWP	1	80%	C.4 #57	95
Signage	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	Excavator	2	80%	C.5 #18	108
East - Sub Base	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	Road Paver	1	60%	C.5 #31	105
East - Surfacing	Wagons	8	15%	C.2 #34	108
G	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	Excavator	1	80%	C.5 #18	108
East - VRS Barrier	Concrete Wagon	1	5%	C.4 #20	108
	Breaker	1	6%	C.1 #7	121
Phase 1: Roundabout	Stud Milling Wagon	1	10%	C.10 #17	112
East - Lining	Line Painting Kit	1	5%	-	28
Phase 1A		•		•	•
Phase 1A: - Install	IPV	2	10%	C.6 #19	104
Narrow Lanes On NB	HIAB	1	40%	C.4 #53	105
Carriageway	Drill	2	5%	-	102
-	Impact Driver	2	5%	-	102
Phase 1A: - Install	IPV	2	10%	C.6 #19	104
Narrow Lanes On SB	HIAB	1	40%	C.4 #53	105
	Drill	2	5%	-	102
	1		0 / 0	I	1



Took Cub Took	Diant And	No Of	O/ On Time	DC 5000	CWI DIV(A)
Task/Sub-Task	Plant And	No. Of	% On Time	BS 5228 Ref.	SWL, Db(A)
Carriageway M6 To	Equipment Impact Driver	Plant 2	5%	Rei.	102
Walsgrave	Impact Driver	4	3%	-	102
Phase 1A: - Install	IPV	2	10%	C.6 #19	104
Narrow Lanes On SB	HIAB	1	40%	C.4 #53	105
Carriageway Walsgrave	Drill	2	5%	-	102
To Binley	Impact Driver	2	5%	-	102
Phase 1A: Bridge Deck -	Excavator	2	60%	C.5 #18	108
HRA Protection Layer	Wagons	8	5%	C.2 #34	108
This tracedion Layer	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	1	12%	C.2 #37	107
	Roller	'	1270	0.2 #07	107
	Dumper	1	80%	C.2 #32	102
Phase 1A: Bridge Deck -	Excavator	2	60%	C.5 #18	108
SMA Binder	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	1	12%	C.2 #37	107
	Roller				
	Dumper	1	80%	C.2 #32	102
Phase 1A: Bridge Deck -	Excavator	2	60%	C.5 #18	108
HRA Surface Course	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 -	Excavator	2	60%	C.5 #18	108
Base	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 -	Excavator	2	60%	C.5 #18	108
Binder Course	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 -	Excavator	2	60%	C.5 #18	108
Surface Course	Wagons	8	5%	C.2 #34	108



Task/Sub-Task	Plant And	No. Of	% On Time	BS 5228	SWL, Db(A)
	Equipment	Plant		Ref.	
	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	1	12%	C.2 #37	107
	Roller				
	Dumper	1	80%	C.2 #32	102
Phase 1A: West NB	Excavator	2	80%	C.5 #18	108
Carriageway -	Large Breaker	1	20%	C.1 #9	118
Excavation Ex	ADT	1	75%	C.1 #11	108
Carriageway	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	Excavator	2	80%	C.5 #18	108
Carriageway - Capping	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	Excavator	2	80%	C.5 #18	108
Carriageway - Drainage	Excavator	2	80%	C.5 #18	108
	Rammax	1	40%	C.5 #19	108
	Pump And	1	100%	C.4 #88	96
	Generator				
	Dumper	1	80%	C.2 #32	102
	Wagons	3	30%	C.2 #34	108
Phase 1A: West NB	Excavator	2	80%	C.5 #18	108
Carriageway - Drainage	Excavator	2	80%	C.5 #18	108
Removal	Rammax	1	40%	C.5 #19	108
	Pump And	1	100%	C.4 #88	96
	Generator				
	Dumper	1	80%	C.2 #32	102
	Wagons	3	30%	C.2 #34	108
Phase 1A: West NB	Slipform Mold	1	90%	-	102
Carriageway - Concrete	Vehicle				
Barrier	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	Excavator	2	80%	C.5 #18	108
Carriageway - Sub Base	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	Road Paver	1	60%	C.5 #31	105
Carriageway - 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	1 1	12%	C.2 #37	107
	Roller	1'	12/0	J.L π01	'''
	Dumper	1	80%	C.2 #32	102
	MEWP	1	80%	C.4 #57	95
	1VI - V V I	1 '	JU /0	Ο.7 πJ/	55



Task/Sub-Task	Plant And	No. Of	% On Time	BS 5228	SWL, Db(A)
D)	Equipment	Plant	506	Ref.	105
Phase 1A: West NB	HIAB	1	50%	C.4 #53	105
Carriageway - Lighting &	Coring Machine	1	40%	-	106
Signs	T (C - NA	_	1000/		100
Phase 1A: West NB	Traffic Management	1	100%	-	109
Carriageway - Move NB Traffic Over					
Phase 1A: East SB	Excavator	2	80%	C.5 #18	108
Carriageway -		1	20%	C.5 #18	118
Excavation Ex	Large Breaker ADT	1			
Carriageway			75%	C.1 #11	108
Gamageway	Vibrating Roller	2	40%	C.5 #22	109
	D6 Dozer	1	80%	C.2 #12	109
DI 14 E 10D	Road Wagon	8	15%	C.6 #21	108
Phase 1A: East SB	Excavator	2	80%	C.5 #18	108
Carriageway - Capping	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	Excavator	2	80%	C.5 #18	108
Carriageway - Drainage	Excavator	2	80%	C.5 #18	108
	Rammax	1	40%	C.5 #19	108
	Pump And	1	100%	C.4 #88	96
	Generator				
	Dumper	1	80%	C.2 #32	102
	Wagons	3	30%	C.2 #34	108
Phase 1A: East SB	Excavator	2	80%	C.5 #18	108
Carriageway - Drainage	Excavator	2	80%	C.5 #18	108
Removal	Rammax	1	40%	C.5 #19	108
	Pump And	1	100%	C.4 #88	96
	Generator				
	Dumper	1	80%	C.2 #32	102
	Wagons	3	30%	C.2 #34	108
Phase 1A: East SB	Slipform Mold	1	90%	-	102
Carriageway - Concrete	Vehicle				
Barrier	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	Excavator	2	80%	C.5 #18	108
Carriageway - Sub Base	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	Road Paver	1	60%	C.5 #31	105
Carriageway - 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	1	12%	C.2 #37	107
	Roller				
	Dumper	1	80%	C.2 #32	102
	MEWP	1	80%	C.4 #57	95
	HIAB	1	50%	C.4 #53	105



				<b>DO TODO</b>	OWI DL(A)	
Task/Sub-Task	Plant And	No. Of	% On Time	BS 5228	SWL, Db(A)	
Phase 1A: East SB	Equipment	Plant	40%	Ref.	106	
Carriageway - Lighting &	Coring Machine	1	40%	-	106	
Signs						
Phase 1A: East SB	Traffic Management	1	100%	_	109	
Carriageway - Move NB	l		1.0070			
Traffic Over						
Phase 1A: West REW	Excavator	1	40%	C.5 #18	108	
Construction - REW	Wagons	8	60%	C.2 #34	108	
Foundation	Pneumatic Tyre	1	12%	C.2 #37	107	
	Roller					
	Dumper	1	50%	C.2 #32	102	
Phase 1A: West REW	Excavator	2	80%	C.5 #18	108	
Construction - REW	Excavator	2	80%	C.5 #18	108	
Drainage	Rammax	1	40%	C.5 #19	108	
	Pump And	1	100%	C.4 #88	96	
	Generator					
	Dumper	1	80%	C.2 #32	102	
	Wagons	3	30%	C.2 #34	108	
Phase 1A: West REW	Excavator	1	40%	C.5 #18	108	
Construction - Install	Wagons	8	60%	C.2 #34	108	
Geogrids & Panels	Pneumatic Tyre	1	12%	C.2 #37	107	
	Roller					
	Dumper	1	50%	C.2 #32	102	
Phase 1A: West REW	Excavator	1	40%	C.5 #18	108	
Construction - Construct	Concrete Pump	1	20%	C.4 #30	107	
Bank Seat	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	Excavator	1	40%	C.5 #18	108	
Construction - Install	Concrete Pump	1	20%	C.4 #30	107	
Coping	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	Excavator	1	40%	C.5 #18	108	
Construction - REW	Wagons	8	60%	C.2 #34	108	
Foundation	Pneumatic Tyre	1	12%	C.2 #37	107	
	Roller	_	500/	0.0.400	400	
51 14 5 1557	Dumper	1	50%	C.2 #32	102	
Phase 1A: East REW	Excavator	2	80%	C.5 #18	108	
Construction - REW	Excavator	2	80%	C.5 #18	108	
Drainage	Rammax	1	40%	C.5 #19	108	
	Pump And	1	100%	C.4 #88	96	
	Generator	1	000/	C 2 #22	102	
	Dumper	3	80% 30%	C.2 #32 C.2 #34	102 108	
Phase 1A: East REW	Wagons Excavator	1	40%	C.2 #34 C.5 #18	108	
Construction - Install		8			108	
Geogrids & Panels	Wagons Proumatic Tyro	1	60% 12%	C.2 #34	108	
Goognas a ranois	Pneumatic Tyre Roller	'	1470	C.2 #37	107	
	Dumper	1	50%	C.2 #32	102	
	Excavator	1	40%	C.5 #18	108	
	∟∧∪aval∪i	<u> </u>	<del>4</del> 0 /0	0.5 # 10	100	



Task/Sub-Task	Plant And	No. Of	% On Time	BS 5228	SWL, Db(A)	
Task/Oab-Task	Equipment	Plant	70 OH THILE	Ref.	OWE, DB(A)	
Phase 1A: East REW	Concrete Pump	1	20%	C.4 #30	107	
Construction - Construct	Concrete Wagon	4	10%	C.4 #20	108	
Bank Seat	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	Excavator	1	40%	C.5 #18	108	
Construction - Install	Concrete Pump	1	20%	C.4 #30	107	
Coping	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	Excavator	2	80%	C.5 #18	108	
Off-Line - Prepare Area	ADT	1	75%	C.1 #11	108	
To Construct Bridge OFF	Vibrating Roller	2	40%	C.5 #22	109	
Line	D6 Dozer	1	80%	C.2 #12	109	
	Road Wagon	8	15%	C.6 #21	108	
Phase 1A: Bridge Works	Excavator	2	80%	C.5 #18	108	
Off-Line - Remove	ADT	1	75%	C.1 #11	108	
Ramps And Lay Down	Vibrating Roller	2	40%	C.5 #22	109	
Area	D6 Dozer	1	80%	C.2 #12	109	
	Road Wagon	8	15%	C.6 #21	108	
Phase 1A: Bridge Works	D6 Dozer	3	80%	C.2 #12	109	
Off-Line - Topsoil Area	Excavator	21	80%	C.5 #18	108	
	Wagons	4	30%	C.2 #34	108	
Phase 1A: Deck	Crane	1	10%	0.2 #34	99	
Construction - Place	Abnormal Load	4	5%	C.6 #23	110	
Beams On Tressels	Flatbeds	7	370	0.0 #20	110	
	Mobile Crane	1	30%	C.3 #28	95	
Phase 1A: Deck	Flatbed	1	5%	C.2 #26	107	
Construction - Install	Mobile Crane	1	30%	C.3 #28	95	
Shutters	MEWP	1	80%	C.4 #57	95	
Phase 1A: Deck	Flatbed	1	5%	C.2 #26	107	
Construction - Fix	Mobile Crane	1	30%	C.3 #28	95	
Reinforcement	MEWP	1	80%	C.4 #57	95	
Phase 1A: Deck	Flatbed	1	5%	C.2 #26	107	
Construction - Edge	Mobile Crane	1	30%	C.3 #28	95	
Shutters And Stop End	MEWP	1	80%	C.4 #57	95	
Phase 1A: Deck	Excavator	1	80%	C.5 #18	108	
Construction - Concrete	Mobile Concrete	1	80%	C.4 #28	103	
Construction Concrete	Pump	'	00 /6	0.4 #20	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	Flatbed	1	5%	C.2 #26	107	
Construction - Strip	Mobile Crane	1	30%	C.3 #28	95	
Shutter	MEWP	1 1	80%	C.4 #57	95	
Phase 1A: North Parapet	Flatbed	1	5%	C.2 #26	107	
- Set Up Edge Shutters	Mobile Crane	1	30%	C.2 #28	95	
And And Fix Internal	MEWP	1	80%	C.4 #57	95	
Phase 1A: North Parapet	Excavator	1	80%	C.5 #18	108	
- Concrete Parapets	Mobile Concrete	1	80%	C.5 #18	103	
	Pump	[ '	00 /0	0.4 #20	100	
	i unip		I	1	1	



Task/Sub-Task	Plant And	No. Of	% On Time	BS 5228	SWL, Db(A)
	Equipment	Plant		Ref.	
	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	Flatbed	1	5%	C.2 #26	107
- Strip Shutter	Mobile Crane	1	30%	C.3 #28	95
·	MEWP	1	80%	C.4 #57	95
Phase 1A: South Parapet	Flatbed	1	5%	C.2 #26	107
- Set Up Edge Shutters	Mobile Crane	1	30%	C.3 #28	95
And And Fix Internal	MEWP	1	80%	C.4 #57	95
Phase 1A: South Parapet	Excavator	1	80%	C.5 #18	108
- Concrete Parapets	Mobile Concrete	1	80%	C.4 #28	103
	Pump		050/	0.4.400	400
	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	Flatbed	1	5%	C.2 #26	107
- Strip Shutter	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	Flatbed	1	5%	C.2 #26	107
Fencing - Strip North	Mobile Crane	1	30%	C.3 #28	95
Parapet Falsework	MEWP	1	80%	C.4 #57	95
Phase 1A: Parapet	Flatbed	1	5%	C.2 #26	107
Fencing - Install South	Mobile Crane	1	30%	C.3 #28	95
Parapet Fence	MEWP	1	80%	C.4 #57	95
Phase 1A: Parapet	SPMT	2	12%	C.11 #18	116
Fencing - Drive Bridge &	Mobile Crane	1	12%	C.3 #28	95
Lift (Nights)	Generator	2	12%	C.8 #24	87
Phase 1A: Parapet Fencing - Waterproof To	Generator / Compressor	1	50%	C.4 #82	84
Deck	Sprayer	2	12%	_	93
Phase 1A: Parapet	Excavator	2	60%	C.5 #18	108
Fencing - Regulating	Wagons	8	5%	C.2 #34	108
To the state of th	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
		1	80%	C.2 #32	102
Phase 1A: Daranet	Dumper Excavator With	1	40%	0.2 #32	113
Phase 1A: Parapet Fencing - Kerbing	Vacuum Lift	1		-	
	Dumper	1	80%	C.2 #32	102
	Concrete Wagon	1	5%	C.4 #20	108
Phase 1A: Parapet	Road Paver	1	60%	C.5 #31	105
Fencing - 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



				DO 1000	OWI DI (A)	
Task/Sub-Task	Plant And	No. Of	% On Time	BS 5228	SWL, Db(A)	
	Equipment	Plant	100/	Ref.	107	
	Pneumatic Tyre Roller	1	12%	C.2 #37	107	
	Dumper	1	80%	C.2 #32	102	
Phase 1A:	Excavator	2	80%	C.5 #18	108	
Temporaray Widening		1	20%	C.5 #16	118	
Southbound RA -	Large Breaker ADT	1	75%	C.1 #9	108	
Reduce Dig	·	2	40%	C.5 #22	109	
1.100000 D.1g	Vibrating Roller D6 Dozer	1	80%	C.5 #22 C.2 #12	109	
		8	15%	C.2 #12 C.6 #21	108	
Phase 1A:	Road Wagon			C.5 #18	108	
Temporaray Widening	Excavator	2	80%			
Southbound RA - Install	Excavator		80%	C.5 #18	108	
Temporrary Drainage	Rammax	1	40%	C.5 #19	108	
Temportary Dramage	Pump And	1	100%	C.4 #88	96	
	Generator	+-	000/	C 0 #00	102	
	Dumper	1	80%	C.2 #32		
Dhana 4 A	Wagons	3	30%	C.2 #34	108	
Phase 1A:	Excavator	2	80%	C.5 #18	108	
Temporaray Widening Southbound RA - Sub-	ADT	1	75%	C.1 #11	108	
Base And Trim	Vibrating Roller	2	40%	C.5 #22	109	
base And Tilli	D6 Dozer	2	80%	C.2 #12	109	
	Road Wagon	8	30%	C.6 #21	108	
Phase 1A:	Road Paver	1	60%	C.5 #31	105	
Temporaray Widening	Wagons	8	15%	C.2 #34	108	
Southbound RA -	JCB With Pecker	1	25%	C.1 #2	120	
Temporary Surfacing	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	1	12%	C.2 #37	107	
	Roller					
	Dumper	1	80%	C.2 #32	102	
Phase 1A: Temporaray	Excavator	2	80%	C.5 #18	108	
Widening Southbound	Large Breaker	1	20%	C.1 #9	118	
RA - Reduce Dig	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 1A: Temporaray	Excavator	2	80%	C.5 #18	108	
Widening Southbound	Rammax	1	40%	C.5 #19	108	
RA - Install Temporary	Pump And	1	100%	C.4 #88	96	
Drainage	Generator					
	Dumper	1	80%	C.2 #32	102	
	Wagons	3	5%	C.2 #34	108	
Phase 1A: Temporaray	Excavator	2	80%	C.5 #18	108	
Widening Southbound	ADT	1	75%	C.1 #11	108	
RA - Sub-Base And Trim	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: Temporaray	Road Paver	1	60%	C.5 #31	105	
Widening Southbound	Wagons	8	15%	C.2 #34	108	
RA - Temporary	JCB With Pecker	1	25%	C.1 #2	120	
Surfacing	Breaker	1	6%	C.1 #7	121	
	120 Roller	1	25%	C.2 #40	101	



Task/Sub-Task	Plant And	No. Of	% On Time	BS 5228	SWL, Db(A)
rush/oub-rush	Equipment	Plant		Ref.	- DD(A)
	140 Roller	1	25%	C.2 #39	102
	Pneumatic Tyre	1	12%	C.2 #37	107
	Roller				
	Dumper	1	80%	C.2 #32	102
Phase 1A: B4082 - Sub	Excavator	2	80%	C.5 #18	108
Base	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 -	Road Paver	1	60%	C.5 #31	105
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
Phase 1A: B4082 - VRS	Excavator	1	80%	C.5 #18	108
Barrier	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	Road Paver	1	60%	C.5 #31	105
Works (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 1A: B4082 - Tie In	Road Paver	1	60%	C.5 #31	105
Works (Nights)	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	1	12%	C.2 #37	107
	Roller				
	Dumper	1	80%	C.2 #32	102
Phase 1A: B4082 - Open New B4062	Traffic Management	1	100%	-	109
Phase 1A: Pedestrian	Excavator	2	80%	C.5 #18	108
Crossing - Excavate	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



T 1/0 1 T 1	DI LA I	N O	1 o/ o T	DO 5000	OWIL DL (A)	
Task/Sub-Task	Plant And	No. Of	% On Time	BS 5228	SWL, Db(A)	
Dhaca 1 A : Dadaatsian	Equipment	Plant	400/	Ref.	100	
Phase 1A: Pedestrian	Rammax	1	40%	C.5 #19	108	
Crossing - Ducting	Dumper	1	80%	C.2 #32	102	
Phase 1A: Pedestrian	Excavator With	1	40%	-	113	
Crossing - Kerbing Paving	Vacuum Lift	1	80%	C 0 #00	102	
I avilig	Dumper Caparata Wagan	1	5%	C.2 #32		
Dhaca 1 A - Dadaatsian	Concrete Wagon	1		C.4 #20	108	
Phase 1A: Pedestrian Crossing - Pedestrian	Breaker Drill	2	6%	C.1 #7	121	
Guardrail	Drill	2	20%	-	102	
Phase 1A: Pedestrian	Road Paver	1	60%	C.5 #31	105	
Crossing - 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	
Phase 1A: Pedestrian	MEWP	1	80%	C.4 #57	95	
Crossing - Install Signals	HIAB	1	50%	C.4 #53	105	
Crossing metall eightle	Coring Machine	1	40%	-	106	
	Excavator	1	75%	C.5 #18	108	
	Dumper	1	75%	C.2 #32	102	
Phase 2	Dumper		75%	0.2 #32	102	
Phase 2: - TM Switch	IPV	2	10%	C.6 #19	104	
B4082	HIAB	1	40%	C.6 #19 C.4 #53	105	
A46 NB Binley To M6 J2	Drill	2	5%	-	102	
74-014B Billiey 10 Mio 02		2	5%	-	102	
Phase 2: - TM Switch	Impact Driver	2	10%		104	
B4082	HIAB	1	40%	C.6 #19 C.4 #53	105	
A46 NB Binley To M6 J2	Drill	2	5%	1	102	
A40 NB Billiey 10 M0 32		2		-	102	
Dhana O. Nauthhannad	Impact Driver		5%			
Phase 2: Northbound	Planer	1	80%	C.5 #7	110	
Carriageway - Excavation Ex	Excavator	2	80%	C.5 #18	108	
Carriageway	Hydrema	2	80%	C.4 #8	84	
Camageway	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	
DI 0 N 111	Wagon	8	30%	C.2 #34	108	
Phase 2: Northbound	Excavator	2	80%	C.5 #18	108	
Carriageway - Capping	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	Excavator	2	80%	C.5 #18	108	
Carriageway - Sub Base	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	



Phase 2: Northbound   Carriageway - Drainage   Carriageway - Concrete   Carriageway - Surfacing   Carriageway - Surfacing				_		_	
Phase 2: Northbound Carriageway - Drainage	Task/Sub-Task	Plant And	No. Of	% On Time	BS 5228	SWL, Db(A)	
Rammax				222/	_	100	
Pump And Generator						<u> </u>	
Generator	Carriageway - Drainage						
Dumper   1   80%   C.2 #32   102			1	100%	C.4 #88	96	
Wagons   3   5%   C.2 #34   108							
Phase 2: Northbound Carriageway - Drainage Removal		,	1				
Excavator   2		Wagons		5%		108	
Rammax	Phase 2: Northbound	Excavator		80%	C.5 #18	108	
Pump And   1   100%   C.4 #88   96	Carriageway - Drainage	Excavator	2	80%	C.5 #18	108	
Generator   Dumper	Removal	Rammax	1	40%	C.5 #19	108	
Generator   Dumper		Pump And	1	100%	C.4 #88	96	
Wagons   3   5%   C.2 #34   108							
Wagons   3   5%   C.2 #34   108		Dumper	1	80%	C.2 #32	102	
Phase 2: Northbound Carriageway - Concrete Barrier		-	3				
Carriageway - Concrete   Barrier   Breaker	Phase 2: Northbound				_		
Barrier			l .	0070		102	
Dumper			1	6%	C 1 #7	121	
Concrete Wagon   1   20%   C.4 #20   108						<b>.</b>	
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   IE Preaker   1   6%   C.1 #7   121   120   IE Preaker   1   25%   C.2 #40   101   IE Preaker   1   25%   C.2 #37   IO7   IE Preumatic Tyre   1   12%   C.2 #37   IO7   IE Preumatic Tyre   1   12%   C.2 #37   IO7   IE Preumatic Tyre   1   12%   C.2 #37   IO7   IE Preumatic Tyre   IE				_		<b>.</b>	
Wagons	Phase 2: Northbound						
JCB With Pecker						<b>.</b>	
Breaker	Carriageway - Surfacing						
120 Roller							
140 Roller							
Pneumatic Tyre Roller							
Roller   Dumper   1   80%   C.2 #32   102							
Phase 2: Northbound Carriageway - Lighting & Signs			1	12%	C.2 #37	107	
Phase 2: Northbound Carriageway - Lighting & Signs		Dumper	1	80%	C.2 #32	102	
Carriageway - Lighting & Signs	Phase 2: Northbound	<u> </u>	1			95	
Coring Machine							
Excavator					-		
Dumper	0				C 5 #18	<b>.</b>	
Phase 2: Northbound Carriageway - Move NB Traffic Management							
Carriageway - Move NB Traffic Over           Phase 3: - TM Switch         IPV         2         10%         C.6 #19         104           Phase 3: - TM Switch         IPV         2         10%         C.4 #53         105           Drill         2         5%         -         102           Impact Driver         2         5%         -         102           Phase 3: - Site         Excavator         2         80%         C.5 #18         108           Clearance         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.5 #18         108           Large Breaker         1         20%	Phase 2: Northbound	'			0.2 #32	<b>.</b>	
Phase 3: - TM Switch	Carriageway - Move NB Traffic Over	Tranic Management	ı	100 /8	-	109	
HIAB	Phase 3						
Drill   2   5%   -   102     Impact Driver   2   5%   -   102     Phase 3: - Site   Excavator   2   80%   C.5 #18   108     Chipper   2   40%   -   111     Flail   1   40%   C.2 #5   104     Tracked Mulching   1   50%   C.2 #3   106     Machine   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.5 #18   108     Large Breaker   1   20%   C.5 #18   108     Large Breaker   1   20%   C.1 #9   118     Company   C.1 #9   C.1 #9   C.1 #9     Company   C.2 #18   108     Company   C.3 #18   C.3 #18     Company   C.3 #18   C.3 #18     Company   C.3 #18   C.3 #18     Company   C.3 #18     Company	Phase 3: - TM Switch	IPV	2	10%	C.6 #19	104	
Impact Driver   2   5%   -   102		HIAB	1	40%	C.4 #53	105	
Excavator   2   80%   C.5 #18   108		Drill	2	5%	-	102	
Excavator   2   80%   C.5 #18   108		Impact Driver	2	5%	-	102	
Clearance         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         2         80%         C.5 #18         108           Large Breaker         1         20%         C.1 #9         118	Phase 3: - Site				C.5 #18	<b>.</b>	
Flail					-		
Tracked Mulching   1   50%   C.2 #3   106     Machine   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     Company   C.1 #9   118     Company   C.2 #3   106     C.3 #18   108     C.4 #3   108     C.5 #18   108     C.6 #18   108     C.7 #18   108     C.8 #18   108     C.9 #18   108					C 2 #5		
Machine         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							
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		Machine			0.2 #5		
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					-		
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						<b>.</b>	
ADT 1 80% C.1 #11 108  Phase 3: - Excavation	Phase 3: - Top Soil Strip	Excavator	1	80%	C.5 #18	108	
ADT 1 80% C.1 #11 108  Phase 3: - Excavation		Large Breaker	1	15%	C.1 #9	118	
Large Breaker 1 20% C.1 #9 118		ADT	1	80%	C.1 #11	108	
Large Breaker 1 20% C.1 #9 118	Phase 3: - Excavation	Excavator	2	80%	C.5 #18	108	
				_			
		ADT	1	75%	C.1 #11	108	



Task/Sub-Task	Plant And	No. Of	% On Time	BS 5228	SWL, Db(A)
rask/Sub-rask	Equipment	Plant	/8 OII TIIIIe	Ref.	SWL, DD(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	1	100%	C.4 #88	96
	Generator				
	Dumper	1	80%	C.2 #32	102
	Wagons	3	5%	C.2 #34	108
Phase 3: - Drainage	Excavator	2	80%	C.5 #18	108
Removal	Excavator	2	80%	C.5 #18	108
	Rammax	1	40%	C.5 #19	108
	Pump And	1	100%	C.4 #88	96
	Generator				
	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 &	MEWP	1	80%	C.4 #57	95
Signs	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	IPV	2	10%	C.6 #19	104
NB	HIAB	1	40%	C.4 #53	105
	Drill	2	5%	-	102



	1-:				
Task/Sub-Task	Plant And	No. Of	% On Time	BS 5228	SWL, Db(A)
	Equipment	Plant	50/	Ref.	400
	Impact Driver	2	5%	-	102
Phase 4: - TM Switch	IPV	2	10%	C.6 #19	104
SB	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	Excavator	2	80%	C.5 #18	108
Compact Sub Base	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	1	80%	C.4 #88	96
	Generator	'	0070	0.1 #00	
	Dumper	1	80%	C.2 #32	102
	Wagons	1	30%	C.2 #34	108
Phase 4: - Drainage	Excavator	2	80%	C.5 #18	108
Removal	Excavator	2	80%	C.5 #18	108
	Rammax	1	40%	C.5 #19	108
	Pump And	1	80%	C.4 #88	96
	Generator	'	00 /8	0.4 #00	30
	Dumper	1	80%	C.2 #32	102
	Wagons	1	30%	C.2 #34	108
Phase 4: - Construct	Excavator	2	80%	C.5 #18	108
Central Res	ADT	1	75%	C.1 #11	108
Some and the so	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
Friase 4 Surfacing		8	5%		108
	Wagons			C.2 #34	
	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	1	12%	C.2 #37	107
	Roller		000/	0.0 "00	100
Disease E	Dumper	1	80%	C.2 #32	102
Phase 5	Liby		Line	100:::	1404
Phase 5: - TM Switch	IPV	2	10%	C.6 #19	104
NB	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
I	ADT	1	75%	C.1 #11	108



Tools/Cub Tools	Diamit Anal	No Of	0/ On Time	DC 5000	CWI Db(A)
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
Filase 5 Subbase	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 5: - Drainage		2	80%	C.5 #18	108
Fliase 5 Dialliage	Excavator	2	80%	C.5 #18	108
	Excavator	1	40%	C.5 #18	108
	Rammax	1	100%	C.5 #19 C.4 #88	96
	Pump And Generator				
	Dumper	1	80%	C.2 #32	102
	Wagons	1	30%	C.2 #34	108
Phase 5: - Drainage	Excavator	2	80%	C.5 #18	108
Removal	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	1	30%	C.2 #34	108
Phase 5: - Surfacing	Excavator	2	60%	C.5 #18	108
That of Cartaing	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	1	12%	C.2 #37	107
	Roller				
DI O	Dumper	1	80%	C.2 #32	102
Phase 6	LIDV		1.00/	0.0 "40	1404
Phase 6: - TM Switch	IPV	2	10%	C.6 #19	104
NB	HIAB	1	40%	C.4 #53	105
	Drill	2	5%	-	102
	Impact Driver	2	5%	-	102
Phase 6: - Remove	Planer	1	80%	C.5 #7	110
Temporary Widening	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	Excavator	2	80%	C.5 #18	108
Temporary Drainage	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
Discussion Control	Wagon	8	0%	C.2 #34	108
Phase 6: - Central Res	Excavator	2	80%	C.5 #18	108
Constructed	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	No. Of	No. Of % On Time		SWL, Db(A)
	Equipment	Plant		Ref.	
Phase 6: - Final	Wagons	8	5%	C.2 #34	108
Surfacing	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 &	MEWP	1	80%	C.4 #57	95
Lighting	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	IPV	2	10%	C.6 #19	104
TM	HIAB	1	40%	C.4 #53	105
	Drill	2	5%	-	102
	Impact Driver	2	5%	-	102
Traffic Management Wor	ks				
Traffic Management	HIAB	2	0.8	C.4 #53	105
Works	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	Address	Day time			Night time	Night time			
ref.		LOAEL	BS 5228 Category	SOAEL	LOAEL	BS 5228 Category	SOAEL		
R1	9 Tylney Close	68	С	75	59	Table E.1 Note 2	>59		
R2	7 Tylney Close	67	В	70	58	Table E.1 Note 2	>58		
R3	1 Tylney Close	63	В	70	55	С	55		
R4	6 Tylney Close	65	В	70	57	Table E.1 Note 2	>57		
R5	5 Tylney Close	66	В	70	58	Table E.1 Note 2	>58		
R6	21 Hepworth Road	63	В	70	54	С	55		
R7	27 Hepworth Road	65	В	70	57	Table E.1 Note 2	>57		
R8	9 Hepworth Road	57	Α	65	49	С	55		
R9	23 Hepworth Road	61	A	65	53	С	55		
R10	17 Hepworth Road	64	В	70	56	Table E.1 Note 2	>56		
R11	35 Hepworth Road	65	В	70	57	Table E.1 Note 2	>57		
R12	15 Hepworth Road	62	А	65	54	С	55		
R13	39 Hepworth Road	61	А	65	53	С	55		
R14	3 Tylney Close	66	В	70	57	Table E.1 Note 2	>57		
R15	29 Hepworth Road	65	В	70	57	Table E.1 Note 2	>57		
R16	13 Hepworth Road	64	В	70	56	Table E.1 Note 2	>56		
R17	8 Tylney Close	68	С	75	59	Table E.1 Note 2	>59		
R18	11 Hepworth Road	64	В	70	56	Table E.1 Note 2	>56		
R19	31 Hepworth Road	64	В	70	55	С	55		
R20	19 Hepworth Road	65	В	70	56	Table E.1 Note 2	>56		
R21	37 Hepworth Road	61	А	65	53	С	55		
R22	33 Hepworth Road	63	В	70	55	С	55		
R23	25 Hepworth Road	60	А	65	52	С	55		
R24	41 Hepworth Road	65	В	70	57	Table E.1 Note 2	>57		



Receptor	Address	Day time			Night time		
ref.	71441000	LOAEL	BS 5228	SOAEL	LOAEL	BS 5228	SOAEL
Doc	O Tulnou Ologo	0.4	Category	70	50	Category	50
R25	2 Tylney Close	64	В	70	56	Table E.1 Note 2	>56
R26	4 Tylney Close	66	В	70	57	Table E.1 Note 2	>57
R27	1 Sevilla Close	68	С	75	59	Table E.1 Note 2	>59
R28	9 Valencia Road	68	С	75	59	Table E.1 Note 2	>59
R29	1 Florence Road	68	С	75	59	Table E.1 Note 2	>59
R30	17 Valencia Road	65	В	70	57	Table E.1 Note 2	>57
R31	2 Florence Road	66	В	70	58	Table E.1 Note 2	>58
R32	1 Valencia Road	69	С	75	60	Table E.1 Note 2	>60
R33	5 Abbotsbury Close	54	А	65	47	В	50
R34	56 Gainford Rise	60	Α	65	52	С	55
R35	79 Gainford Rise	56	Α	65	48	С	55
R36	58 Gainford Rise	59	Α	65	52	С	55
R37	46 Gainford Rise	58	Α	65	50	С	55
R38	38 Gainford Rise	56	Α	65	49	С	55
R39	48 Gainford Rise	58	Α	65	50	С	55
R40	10 Valencia Road	62	Α	65	54	С	55
R41	212 Dorchester Way	56	Α	65	49	С	55
R42	208 Dorchester Way	59	А	65	51	С	55
R43	16 Sturminster Close	55	А	65	48	С	55
R44	210 Dorchester Way	58	А	65	50	С	55
R45	54 Gainford Rise	57	Α	65	50	С	55
R46	10 Royston Close	57	Α	65	49	С	55
R47	8 Royston Close	57	Α	65	49	С	55
R48	18 Royston Close	55	Α	65	48	С	55
R49	18 Sturminster Close	55	А	65	48	С	55
R50	52 Gainford Rise	59	Α	65	51	С	55
R51	36 Gainford Rise	54	Α	65	47	В	50
R52	64 Gainford Rise	60	Α	65	52	С	55
R53	12 Faygate Close	56	Α	65	49	С	55
R54	42 Gainford Rise	55	Α	65	48	С	55
R55	81 Gainford Rise	56	Α	65	49	С	55
R56	60 Gainford Rise	56	Α	65	48	С	55
R57	40 Gainford Rise	57	Α	65	50	С	55



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



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



Receptor ref.	Address	Day time			Night time		
		LOAEL	BS 5228 Category	SOAEL	LOAEL	BS 5228 Category	SOAEL
R120	188 Dorchester Way	53	Α	65	46	В	50
R121	220 Dorchester Way	61	А	65	53	С	55
R122	186 Dorchester Way	55	А	65	47	В	50
R123	7 Sturminster Close	57	А	65	49	С	55
R124	162 Clifford Bridge Road	65	В	70	57	Table E.1 Note 2	>57
R125	7 Fontmell Close	55	Α	65	47	В	50
R126	6 Valencia Road	63	В	70	54	С	55
R127	8 Fontmell Close	55	Α	65	47	В	50
R128	16 Fontmell Close	55	Α	65	47	В	50
R129	12 Sturminster Close	55	А	65	48	С	55
R130	190 Dorchester Way	58	A	65	51	С	55
R131	8 Sturminster Close	48	A	65	41	А	45
R132	49 Halls Drive	53	А	65	46	В	50
R133	15 Bridport Close	55	Α	65	47	В	50
R134	12 Bridport Close	54	Α	65	47	В	50
R135	7 Bridport Close	55	Α	65	48	С	55
R136	8 Bridport Close	54	Α	65	47	В	50
R137	11 Bridport Close	54	Α	65	47	В	50
R138	10 Bridport Close	55	Α	65	47	В	50
R139	185 Clifford Bridge Road	66	В	70	57	Table E.1 Note 2	>57
R140	35 Keswick Walk	61	Α	65	53	С	55
R141	31 Keswick Walk	59	Α	65	51	С	55
R142	83 Dorchester Way	58	А	65	50	С	55
R143	19 Sturminster Close	54	А	65	47	В	50
R144	24 Sturminster Close	51	А	65	44	В	50
R145	29 Keswick Walk	59	Α	65	51	С	55
R146	23 Sturminster Close	54	А	65	47	В	50
R147	6 Sturminster Close	52	А	65	45	В	50
R148	187 Clifford Bridge Road	66	В	70	57	Table E.1 Note 2	>57
R149	33 Keswick Walk	60	Α	65	52	С	55
R150	17 Keswick Walk	65	В	70	56	Table E.1 Note 2	>56
R151	37 Keswick Walk	64	В	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	А	65	47	В	50
R153	Hungerly Hall Farmhouse	66	В	70	57	Table E.1 Note 2	>57