



The Sizewell C Project

Deed of Obligation, Schedule 12, Annex W:
Yoxford Roundabout Construction Refreshed Noise
Assessment

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1. Introduction

- 1.1 AECOM has been appointed by Sizewell C Limited ('SZC') to identify residential buildings that will qualify under the Noise Mitigation Scheme (NMS) (as set out in Annex W of the **Deed of Obligation**¹) as a result of the construction and operation of the Sizewell C nuclear power station project ('the project'). The project includes the following elements:
- The main development site (MDS) comprising land required for the Sizewell C nuclear power station, offshore works and land used temporarily to support construction, including a temporary accommodation campus and caravan site for the construction workforce. This includes the land east of Eastlands Industrial Estate (LEEIE).
 - Two temporary park and ride sites, one at Darsham (the 'northern park and ride site') and one at Wickham Market (the 'southern park and ride site'), to reduce the amount of traffic generated by the construction workforce on local roads and through local villages.
 - A permanent road to bypass Stratford St Andrew and Farnham (referred to as the 'two village bypass' or TVB), to alleviate traffic and mitigate road safety effects on the A12 through the two villages.
 - A permanent road linking the A12 to west of the Sizewell C main development site (referred to as the 'Sizewell link road' or SLR), to alleviate traffic from the B1122 through Theberton and Middleton Moor.
 - Permanent highway improvements at the junction of the A12 and B1122 east of Yoxford (referred to as the 'Yoxford roundabout') and other road junctions to accommodate Sizewell C construction traffic and mitigate road safety effects.
 - A temporary freight management facility (FMF) at Seven Hills on land to the south-east of the A12/A14 junction to manage the flow of freight to the main development site.
 - A temporary extension of the existing Saxmundham to Leiston branch line into the main development site (referred to as 'the green rail route' or GRR) and other permanent rail improvements on the Saxmundham to Leiston branch line, to transport freight by rail to remove large numbers of lorries from the regional and local road network.
- 1.2 In addition, there will be temporary intensification for approximately 8-10 years of the use of the existing East Suffolk line railway between Westerfield Junction, just north of Ipswich and the junction with the Saxmundham to Leiston branch line, just north of Saxmundham, and the Saxmundham to Leiston branch line itself.
- 1.3 The project received development consent on 20 July 2022 under Statutory Instrument 2022 No 853. 'The Sizewell C (Nuclear Generating Station) Order 2022'.
- 1.4 Separate reports have been produced regarding qualification under the NMS due to the construction and operational use of each of the various elements of the project, as set out in paragraphs 1.1 and 1.2 above, except for the operational use of the power station itself, since the **Development Consent Order (DCO)** (Requirement 40: Operational Noise) precludes the operation of the power station at noise levels that could lead to properties being eligible for noise insulation.
- 1.5 This report focuses on noise insulation qualification under the NMS due to the construction of the Yoxford roundabout.
- 1.6 Figure 1 provides an overview of the preliminary design of the Yoxford roundabout². Minimal changes are anticipated at the detailed design stage.
- 1.7 Works covered by the assessment in this report are currently anticipated to start in 2024.

¹ The Sizewell C Project 8.17/10.4 *Deed of Obligation Engrossment Version – Annexures - Part 3 of 3*, Book 8 Revision: 9.0, Book 10 Revision: 1.0, PINS Reference Number: EN010012, <https://infrastructure.planninginspectorate.gov.uk/wp-content/uploads/projects/EN010012/EN010012-008256-SZC%20Co.%20-%20Final%20signed%20and%20dated%20s.106,%20final%20s.106%20Explanatory%20Memorandum%20and%20final%20Confirmation%20and%20Compliance%20Document%2017.pdf>

² File: SZC-AD0330-WSP-YOXGEN-ZZ0000-DRW-HCH-301001.dwg SZC 15/09/23

2. Criteria

Construction

- 2.1 The criteria for noise insulation and temporary rehousing are set out in the NMS which is detailed in Annex W of the **Deed of Obligation**.
- 2.2 Table 1.1 of the NMS sets out the criteria for eligibility for insulation for construction noise, which are:
- “A Property will be eligible for an offer of insulation where the Property is predicted to experience the following when measured 1 m from the external façade of any Eligible Room:*
- (1) a construction noise level which exceeds the higher of either:*
- (a) the noise insulation trigger levels set out in Table 1.3 for any Associated Development site or in Table 1.4 for the main development site for the corresponding times of the day; or*
- (b) the existing Baseline Ambient Sound Level for the corresponding times of the day; and*
- (2) an exceedance of (1) where:*
- (a) the exceedance is predicted to occur on 10 or more days of working in any 15 consecutive days or on a total number of days exceeding 40 in any 6 consecutive months; or*
- (b) where the exceedance occurs only on a Saturday or Sunday, it is predicted to occur on 2 weekends, or part thereof, in any 15 consecutive days or on 6 weekends, or part thereof, in any 6 consecutive months.”*
- 2.3 The numerical values associated with these criteria are contained in Tables 1.3 and 1.4 of the NMS. Since this report does not consider the construction of the MDS, the values in Table 1.4 of the NMS are not relevant.
- 2.4 Table 1 sets out the NMS insulation trigger levels for construction noise for the associated development sites, which are taken from Table 1.3 of the NMS, but rearranged so that multiple periods are grouped according to their eligibility threshold; the NMS presented the periods chronologically.

Table 1. Construction noise insulation trigger levels for the Associated Development sites (from Table 1.3 in the NMS)

Day/Time	Averaging Period, T	Noise Insulation Trigger Level dB L _{Aeq,T}
Day: Weekdays, 0800-1800, Saturday, 0800-1300	10 hr (weekdays) 5 hr (Saturdays)	75
Shoulder Periods: Weekdays, 0700-0800 Weekdays, 1800-1900 Saturday, 0700-0800 Saturday, 1300-1400	1 hr	70
Evenings and weekends: Weekdays 1900-2300, Saturdays 1400-2300, Sundays 0700 - 2300	4 hr (weekdays) 1 hr (Saturdays) 1 hr (Sundays)	65
Nights: Every day 2300 - 0700	1 hr	55

- 2.5 Table 1.2 of the NMS sets out the criteria for temporary rehousing due to construction noise, which are:
- “An occupier of a Property will be eligible for an offer of temporary rehousing where a Property is predicted to experience:*
- (1) a construction noise level which exceeds the higher of either:*
- (a) the temporary rehousing trigger levels set out in Table 1.5 for the corresponding times of the day; or*

(b) the existing Baseline Ambient Sound Level by 10 dB for the corresponding times of the day; and

(2) an exceedance of (1) where:

(a) the exceedance is predicted to occur on 10 or more days of working in any 15 consecutive days or on a total number of days exceeding 40 in any 6 consecutive months; or

(b) where the exceedance occurs only on a Saturday or Sunday, it is predicted to occur on 2 weekends, or part thereof, in any 15 consecutive days or on 6 weekends, or part thereof, in any 6 consecutive months.”

2.6 The numerical values associated with these criteria are contained in Table 1.5 of the NMS, and these are set out in Table 2.

Table 2. Construction noise temporary rehousing trigger levels – all sites (Table 1.5 in the NMS)

Day	Time	Averaging Period, T	Temporary Rehousing Trigger Level dB $L_{Aeq,T}$
Monday to Friday	07:00 to 08:00	1 hr	80
	08:00 to 18:00	10 hr	85
	18:00 to 19:00	1 hr	80
	19:00 to 23:00	4 hr	75
	23:00 to 07:00	1 hr	65
Saturday	07:00 to 08:00	1 hr	80
	08:00 to 13:00	5 hr	85
	13:00 to 14:00	1 hr	80
	14:00 to 23:00	1 hr	75
	23:00 to 07:00	1 hr	65
Sunday and Public Holidays	07:00 to 23:00	1 hr	75
	23:00 to 07:00	1 hr	65

2.7 The trigger levels relate to 'façade' noise levels, i.e. 1 metre from the external façade.

2.8 The potential working times for the Yoxford construction works are Monday – Saturday 07:00-19:00. The appointed road construction contractor has advised that they may not need to carry out works on Saturday afternoons between 14:00 and 19:00. However, as this will not be confirmed until the construction programme is refined, a conservative approach to the assessment of eligibility for noise insulation has been adopted, whereby receptors that are predicted to meet the Saturday afternoon trigger levels have been identified.

2.9 For temporary rehousing those properties that are predicted to be eligible based on Saturday afternoon construction works have been identified separately from those that are predicted to be eligible during the 'core' working hours as discussed in paragraph 2.16.

2.10 In addition, the appointed road construction contractor has confirmed that the one hour shoulder periods of 07:00-08:00 Monday – Saturday, 18:00-19:00 Monday – Friday, and 13:00-14:00 Saturday would be used for activities such as staff briefings, not construction works.

2.11 The NMS trigger levels at which offers of noise insulation or temporary rehousing are to be made are the higher of the absolute levels set out in Tables 1 and 2 or a level set relative to the baseline ambient sound levels at a receptor, where the existing ambient sound levels already exceed the absolute thresholds.

2.12 Based on the baseline noise monitoring and modelling completed for the **Environmental Statement (ES)**³ the baseline ambient sound levels at the closest façades of the receptors closest to the A12 are generally in the high 60 to low 70 dB, $L_{Aeq,16h, facade}$ range during the day and the high 50 to low 60 dB, $L_{Aeq,8h, facade}$ at night. At

³ The Sizewell C Project 6.8 Revision, 1.0, Volume 7 Yoxford Roundabout and Other Highway Improvements *Chapter 4 Noise and Vibration*, PINS Reference Number: EN010012, https://infrastructure.planninginspectorate.gov.uk/wp-content/ipc/uploads/projects/EN010012/EN010012-002102-SZC_Bk6_ES_V7_Ch4_Noise_and_Vibration.pdf

- receptors and façades further away from the A12, baseline ambient sound levels are generally below the absolute thresholds.
- 2.13 Taking a conservative approach, the absolute trigger levels for eligibility for noise insulation set out in Table 1 and the absolute trigger levels for eligibility for temporary rehousing set out in Table 2 have been adopted for all receptors, even where the ambient sound level is likely to be higher than the trigger levels. This is considered to be a robust application of the NMS.
 - 2.14 For the sake of clarity, the daytime shift spans the 'daytime' ten hour period Monday to Friday and five hour Saturday morning period defined in the NMS, as well as the Saturday afternoon period. Although it is noted the appointed contractor may not need to use Saturday afternoons for construction works, this is not yet confirmed so they have been included to provide a conservative approach.
 - 2.15 The relevant noise insulation trigger level will be the most stringent threshold over these periods, which is 65 dB, quantified as a one hour L_{Aeq} during Saturday afternoons. Even though the contractor may not need to work on Saturday afternoons, the time required to insulate the affected properties means that it is better to make offers to more houses than might ultimately require it, so Saturday afternoon working is possible should it become necessary. If this approach is not adopted, the works may potentially be delayed while the NMS process is implemented.
 - 2.16 However, the time required to organise temporary rehousing is much shorter, and therefore the weekday daytime and Saturday morning threshold of 85 dB has been adopted, quantified as either a ten hour L_{Aeq} on Mondays to Fridays between 08:00 and 18:00 or a five hour L_{Aeq} on Saturday mornings from 08:00 to 13:00. The properties that would be eligible for temporary rehousing if Saturday afternoon working does become necessary have been identified in the text of this report, based on the lower threshold of 75 dB as a one hour L_{Aeq} .
 - 2.17 Some works are required outside of normal daytime hours, these relate to a total of eight nights of work to complete the tie-ins between the new junction and the existing road on the three arms of the roundabout. For these works the relevant noise insulation trigger level is 55 dB, and the relevant temporary rehousing trigger level is 65 dB, both quantified as a one hour L_{Aeq} .

3. Methodology

Construction activities and plant

- 3.1 The construction of the Sizewell C Project will span 9-12 years and involve many different contractors. A contractor is in place for the majority of the Yoxford junction improvement works, therefore the construction information set out in the **ES**^{4&5} has been reviewed and updated as appropriate.
- 3.2 The calculations use the SoundPLAN noise modelling software (version 8.2). The construction activities and plant from the **ES** have been used as a starting point. However, the appointed contractor has provided various updates and additional detail on the construction activities, plant, working times and durations, which have been adopted. It is noted that the **ES** was based on spreadsheet calculations rather than noise modelling and focussed on the identification of potentially significant effects; potential qualification under the NMS was considered for construction noise, although the **ES** noted that a refreshed noise assessment would be required once more information on the construction works was available.
- 3.3 Table 3 details the assumed construction activities and durations. The list of plant used in the model for each activity is provided in Appendix A.

⁴The Sizewell C Project 6.8 Revision: 1.0, Volume 5 Volume 7 Yoxford Roundabout and Other Highway Improvements *Chapter 4 Noise and Vibration Appendices 4A - 4B*, May 2020, PINS Reference Number: EN010012
https://infrastructure.planninginspectorate.gov.uk/wp-content/ipc/uploads/projects/EN010012/EN010012-002104-SZC_Bk6_ES_V7_Ch4_Noise_and_Vibration_Appx4A_4B.pdf

⁵The Sizewell C Project 6.8, Revision: 1.0 Volume 7 Yoxford Roundabout and Other Highway Improvements *Chapter 2 Description of Yoxford Roundabout and Other Highway Improvements*, May 2020, PINS Reference Number: EN010012,
https://infrastructure.planninginspectorate.gov.uk/wp-content/ipc/uploads/projects/EN010012/EN010012-002098-SZC_Bk6_ES_V7_Ch2_Description_of_Development.pdf

Table 3. Construction activities

Ref	Activity	Duration
1.1	Site set up - Vegetation clearance	1 month
1.2	Site set up - Site clearance	2 months
1.3	Compound build	1 month
2.1	Earthworks	2 months
3.1	Drainage	2 months
4.1	Pavements - new	1 month
4.2	Pavements - remove existing	2 months
4.3	Pavements - tie ins (night)	8 nights
4.4	Pavements - tie ins (day)	2 months
5.1	Footpaths new surfacing	2 months
6.1	Fencing	2 weeks
7.1	Traffic Signs	2 weeks
8.1	Road Lighting	1 month
9.1	Operation of the compound	9 months

- 3.4 The duration of all the daytime activities is more than ten days and therefore they have the potential to meet the noise insulation and temporary rehousing criteria. The only night-time activity (Activity 4.3 – pavement tie-ins) is expected to last eight nights, and therefore these works cannot trigger qualification for noise insulation or temporary rehousing.

Ground heights

- 3.5 The noise model contains a 3-dimensional representation of the existing ground heights in the study area. The ground data is based on 2020 2 m Digital Terrain Model (DTM) LIDAR data downloaded from the Defra website⁶ in December 2021, which has been filtered using the standard settings in the SoundPLAN software to minimise the size of the dataset.
- 3.6 Proposed ground heights for the Yoxford junction works are incorporated into the noise model for the assessment of the later construction works, once the main earthworks and drainage are complete. The proposed ground heights are based on data provided by LDA Design in May 2022⁷.

OS datasets

- 3.7 The noise model contains a 3-dimensional representation of residential and non-residential buildings in the surrounding area, and a representation of the existing ground type, for example acoustically hard surfaces such as concrete or water, or acoustically soft surfaces such as vegetation. These data are based on OS MasterMap (including the Building Height Attribute dataset) and OS AddressBase Plus data provided by Dalcour Maclaren in December 2021.
- 3.8 Some manual additions to the OS MasterMap buildings dataset have been made for new developments that are not yet included in the mapping, in particular, the two new residential properties on the B1122 to the east of the scheme (represented by receptor E_31). Additional residential buildings have been added to the noise model based on information available online.

Receptors

- 3.9 The construction noise calculations have been undertaken at 33 no. receptor buildings, as shown on Figure 1. Predicting construction noise levels at every façade of every property is not a reasonable or proportionate approach and therefore, a single receptor position is used in some locations to represent a number of adjacent properties or façades. Professional judgement has been applied conservatively to identify which façades at a property are likely to qualify.
- 3.10 The selected receptor buildings include the Satis House hotel. The hotel is not identified as residential in the OS AddressBase Plus dataset however, there is a Council Tax record for the property so if there is permanent residential accommodation in the hotel e.g. a family or manager's flat, this will be included in the Noise

⁶ <https://environment.data.gov.uk/DefraDataDownload/?Mode=survey> downloaded 16/12/21

⁷ File: '6842_WF_YOXFORD_3D.dwg' from LDA Design 11/07/22

Mitigation Scheme. The remainder of the hotel will not be included in the Noise Mitigation Scheme as the scheme is for permanent residential properties only.

Mitigation

- 3.11 No specific mitigation has been identified at this stage for inclusion in this construction noise assessment, so no allowance for mitigation has been made in the calculations presented in this report.

Prediction method

- 3.12 The calculation method for the construction noise assessment is that contained in ISO 9613-2:1996⁸, as was the case for the Yoxford construction noise calculations in the **ES**.
- 3.13 The majority of the construction activities will progress across the worksite, therefore, estimates of the working areas over ten days have been made based on the total area of each activity and the total duration of each activity. The surrounding residential properties have been grouped into six areas, labelled A to F (see Figure 1). The working area over ten days that is closest to each of the six groups of residential properties has been used to estimate the average construction noise level over the worst ten days.
- 3.14 The compound build (Activity 1.3), the operation of the compound (Activity 9.1) and the night-time tie-ins (Activity 4.3) are limited to specific locations, therefore their noise levels are assumed to be constant for the duration of these activities.
- 3.15 The majority of the works are by their nature sequential, e.g. site clearance followed by earthworks, then drainage, pavements, footpaths and finally, fencing, lighting and signs. Therefore, there is limited potential for these activities to overlap, in particular it is highly unlikely that the worst case ten days of more than one activity will coincide.
- 3.16 However, based on the current programme, the following activities have been assumed to occur simultaneously:
- Activity 1.2 (site clearance) and Activity 1.3 (compound build).
 - Activity 4.4 (pavement tie-ins) and Activity 5.1 (footpath surfacing).
 - Activities 4.2 (removing existing roads), 6.1 (fencing), 7.1 (traffic signs) and 8.1 (lighting).
 - Activity 9 (operation of the compound) is assumed to overlap with all activities after the compound is constructed, i.e. Activities 2.1 to 8.1 inclusive.

Assumptions and limitations

- 3.17 As with all construction noise assessments, the predicted noise levels can only ever be a best estimate of the actual noise levels due to the large number of variables for which assumptions must be made, including the number, type and on-time of each item of plant and the location and extent of the activity. Estimating the noise level that is likely to be exceeded for ten days also includes some inherent uncertainty as it is dependent on assumptions on the duration of the activity, the rate of progress across the working area and the manner in which the works will progress.
- 3.18 The eligibility for insulation and temporary rehousing due to construction works under the NMS are based on the predicted construction noise levels exceeding the relevant trigger levels. However, for the purposes of this refreshed assessment, eligibility is considered to also occur where the predicted construction noise levels are equal to the relevant trigger level. The results have been rounded to the nearest whole decibel, i.e. 0.5 dB is rounded up. This is considered a reasonable approach given the inherent uncertainties in the construction noise calculation process, as set out above.
- 3.19 Some utility diversion works will be required at Yoxford, at this stage there is insufficient detail available on the nature, timing and duration of these works, therefore they are not included in this assessment.

⁸ ISO 9613-2:1996 'Acoustics — Attenuation of sound during propagation outdoors — Part 2: General method of calculation'

4. Results

- 4.1 Full details of the predicted construction noise levels at the 33 no. selected receptor buildings are provided in Appendix B and are illustrated on the two sheets of Figure 2. Façades identified as qualifying for noise insulation, and buildings identified as qualifying for temporary rehousing, are also highlighted. In some instances, professional judgement has been used to identify additional façades on properties predicted to be eligible for insulation, so that the property is appropriately protected.
- 4.2 The highest construction noise levels are generally associated with the various pavements and footpath works, followed by the vegetation clearance, site clearance, earthworks and drainage works. The works associated with fencing, traffic signs and road lighting require less noisy plant and, therefore, generally result in lower noise levels. The operation of the compound (a wheelwash and generator) is not a significant source of noise.
- 4.3 Night-time noise levels during the tie-in works are high due to the plant requirements for this activity and the assumption that plant will be working simultaneously on all three arms of the junction for the required eight nights of work. As detailed in section 3, the night-time tie-in works cannot trigger noise insulation and temporary-rehousing qualification as the duration does not meet the ten or more days threshold.

Eligibility for insulation

- 4.4 The results indicate that exceedances of the noise insulation criteria are predicted at 16 no. residential properties close to the scheme and the permanent residential accommodation at the Satis House hotel (B_04) (if present).
- 4.5 Of these 16 no. residential properties, ten are located to the west of the scheme, and six are located to the east of the scheme.
- 4.6 At 16 no. of the 17 receptors this outcome is based on predicted exceedances of the Saturday afternoon noise insulation threshold. At one residential property the daytime and Saturday morning threshold is met. Although the contractor has indicated that construction works may not be needed on Saturday afternoons, it is considered prudent to assume that such works might occur, as the time required for the installation of insulation makes it difficult to insulate properties at short notice should Saturday afternoons be necessary.

Eligibility for temporary rehousing

- 4.7 The temporary rehousing criterion for the weekday daytime and Saturday mornings is predicted to be exceeded at one residential property, Receptor C_11.
- 4.8 The contractor has indicated that construction works may not be needed on Saturday afternoons. As the time required to organise temporary rehousing is significantly shorter than for the installation of insulation, and because the contractor will have the ability to manage the works to avoid unnecessarily disrupting people's lives by rehousing them, the properties identified as being potentially eligible for temporary rehousing based on Saturday afternoon working will be reviewed periodically as the works progress.
- 4.9 As a result, the seven residential properties, and the permanent residential accommodation at Satis House hotel (if present), that might be eligible for temporary rehousing if construction works become necessary on Saturday afternoons, are not explicitly identified on Figure 2.

Mitigation

- 4.10 The Noise Monitoring and Management Plan (NMMP) for the Yoxford roundabout works, which will be submitted to East Suffolk Council for approval as part of the Code of Construction Practice under Requirement 2 of the DCO, will set out noise mitigation measures.
- 4.11 The benefit of such measures has not been included in the calculations set out in this report, and since their purpose will be to reduce construction noise levels, the assessment of eligibility for noise insulation set out in this report will not need to be revisited.
- 4.12 The implications of any alterations to the proposed timing or durations of the works may require an update of this noise assessment in due course to confirm eligibility for temporary rehousing.

5. Conclusion

- 5.1 The results of the construction noise modelling indicate that 16 no. residential properties close to the scheme, plus the permanent residential accommodation at Satis House hotel (if present), are predicted to be eligible for noise insulation under the Noise Mitigation Scheme for the Sizewell C project. This conclusion is based on construction works on a Saturday afternoon being necessary, despite the contractor advising they may not be needed.
- 5.2 The time required to organise the installation of insulation is such that it is considered prudent to assume that such works could occur, thereby avoiding the need to delay the works in the event that Saturday afternoon working is necessary.
- 5.3 A single property is predicted to be eligible for temporary rehousing, assuming working on Saturday afternoons is not needed. The time required to organise temporary rehousing is much shorter than for the installation of insulation, so should Saturday afternoon working prove necessary, the properties likely to be eligible for temporary rehousing can be reviewed closer to the time. Based on the current programme, up to seven additional residential properties and the permanent residential accommodation at Satis House hotel (if present) may be eligible for temporary rehousing if Saturday afternoon working is necessary.

Appendix A Construction information

Table 4. Summary of construction information

Ref	Activity	Plant	% on-time	No. of plant items	L _{WA} dB		
1.1	Site set up - Vegetation clearance	Chainsaw	17	2	115		
		Woodchipper	17	1	121		
1.2	Site set up - Site clearance	Lorry loader crane HIAB	25	1	104		
		Diesel / petrol generator	100	1	97		
		360 Wheeled / tracked excavator	70	2	107		
		180 Backhoe loader	50	1	107		
		Dump truck 1	70	2	106		
		Telehandler	50	1	107		
		Vibratory tamping roller	50	1	111		
1.3	Compound build	Lorry loader crane HIAB	25	1	104		
		Diesel / petrol generator	100	1	97		
		360 Wheeled / tracked excavator	70	2	107		
		Dump truck 1	70	1	106		
		Vibratory tamping roller	50	1	111		
2.1	Earthworks	Tracked dozer	50	1	108		
		Wheeled loading shovel	50	1	107		
		360 Tracked excavator	70	1	110		
		Articulated hauler/dump truck	50	1	108		
		Vibratory tamping roller	50	1	111		
		Road tipper waggon	50	4	107		
3.1	Drainage	Lorry loader crane HIAB	25	1	104		
		360 Tracked excavator	70	1	110		
		180 Backhoe loader	50	1	107		
		Dump truck 1	70	1	106		
		Concrete mixer truck	50	1	107		
		Trench rammer	25	1	91		
		Road tipper waggon	50	1	107		
4.1	Pavements & kerbs - new outside extents of existing road including resurfacing arm to south	Dump truck 2	50	1	108		
		360 Tracked excavator (with breaker)	70	1	116		
		180 Backhoe loader	50	1	107		
		Asphalt paver(and tipper lorry)	70	1	109		
		Compressor and pneumatic hand tool	17	1	118		
		Deadweight/vibrating roller	50	1	111		
		Vibrating plate compactor	25	1	110		
4.2	Removing existing roads and footpaths	Cold planer/milling machine	70	1	104		
		Dump truck 2	50	1	108		
		360 Tracked excavator (with breaker)	70	1	116		
		180 Backhoe loader	50	1	107		
		Asphalt paver(and tipper lorry)	70	1	109		
		Compressor and pneumatic hand tool	17	1	118		
		Deadweight/vibrating roller	50	1	111		
		Vibrating plate compactor	25	1	110		
		4.3	Pavements & kerbs - new on top of existing roads	Cold planer/milling machine	70	1	104
				Night tie-ins	Dump truck 2	50	1
360 Tracked excavator (with breaker)	70			1	110		
180 Backhoe loader	50			1	107		
Asphalt paver(and tipper lorry)	70			1	109		
Compressor and pneumatic hand tool	17			1	118		
Deadweight/vibrating roller	50			1	111		

Ref	Activity	Plant	% on-time	No. of plant items	L _{WA} dB
		Vibrating plate compactor	25	1	110
4.4	Pavements & kerbs - new on top of existing roads	Dump truck 2	50	1	108
	Daytime tie-ins	360 Tracked excavator (with breaker)	10	1	116
		Hand saw	20	1	112
		360 Tracked excavator	60	1	110
		Compressor and pneumatic hand tool	17	1	118
		Deadweight/vibrating roller	50	1	111
		Vibrating plate compactor	25	1	110
5.1	Footpaths laying new surface	Road sweeper	70	1	107
		Lorry loader crane HIAB	25	1	104
		Concrete mixer truck	70	1	107
		Compressor and pneumatic hand tool	17	1	118
		Mini asphalt paver (and tipper lorry)	70	1	109
		Deadweight/vibrating roller	50	1	111
		Vibrating plate compactor	25	1	110
		5t excavator	80	1	93
6.1	Fencing	Lorry loader crane HIAB	25	1	104
		Telehandler	50	1	107
		Tracked excavator 14t	50	1	98
		Concrete mixer truck	70	1	107
7.1	Traffic Signs	Lorry loader crane HIAB	25	1	104
		Telehandler	50	1	107
		180 Backhoe loader	50	1	107
		Mini excavator	50	1	100
		Mobile elevating work platform-vehicle mounted or self-propelled	25	1	104
8.1	Road Lighting	Lorry loader crane HIAB	25	1	104
		Mini excavator	50	1	100
		Mobile elevating work platform-vehicle mounted or self-propelled	25	1	104
9.1	Compound operation	Wheelwash located in compound	20	1	90
		Office generator 100kva	100	1	90

Appendix B Detailed construction noise results

Table 5 contains a breakdown of the results for the individual or combined construction activities at each receptor location/façade. At receptors with more than one floor, results for the floor with the highest maximum daytime noise level are reported. The 'Max Day' column contains the construction noise level for the noisiest combined or individual activity during the day. Results which meet or exceed the various NMS daytime trigger levels of 65, 70, 75 and 80 dB LAeq,T façade are highlighted:

- 65 dB LAeq,T façade – trigger level to qualify for noise insulation - Saturday afternoon, if duration criteria are met
- 70 dB LAeq,T façade – trigger level to qualify for noise insulation - shoulder hours on weekdays and Saturdays, if duration criteria are met
- 75 dB LAeq,T façade – trigger level to qualify for noise insulation - weekday daytime and Saturday morning, and temporary rehousing - Saturday afternoon, if duration criteria are met
- 80 dB LAeq,T façade – trigger level to qualify for temporary rehousing - shoulder hours on weekdays and Saturdays, if duration criteria are met
- 85 dB LAeq,T façade – trigger level to qualify for temporary rehousing - weekday daytime and Saturday morning, if duration criteria are met

Activity 4.3 is the night-time tie-in works where work is occurring simultaneously at each of the three arms of the junction for a maximum of eight nights. As a conservative approach the compound is assumed to operate during these night works (activity 9.1). Results for activity 4.3 and activity 4.3 combined with 9.1, which meet or exceed the various NMS night-time trigger levels of 55 and 65 dB LAeq,T façade are highlighted:

- 55 dB LAeq,T façade – trigger level to qualify for noise insulation – night-time, if duration criteria are met
- 65 dB LAeq,T façade – **trigger level to qualify for temporary rehousing** – night-time, if duration criteria are met

A '-' indicates the receptor is remote from the construction activity and the predicted construction noise level is less than 30 dB LAeq,T façade.

Table 5. Detailed construction noise results (LAeq,T façade)

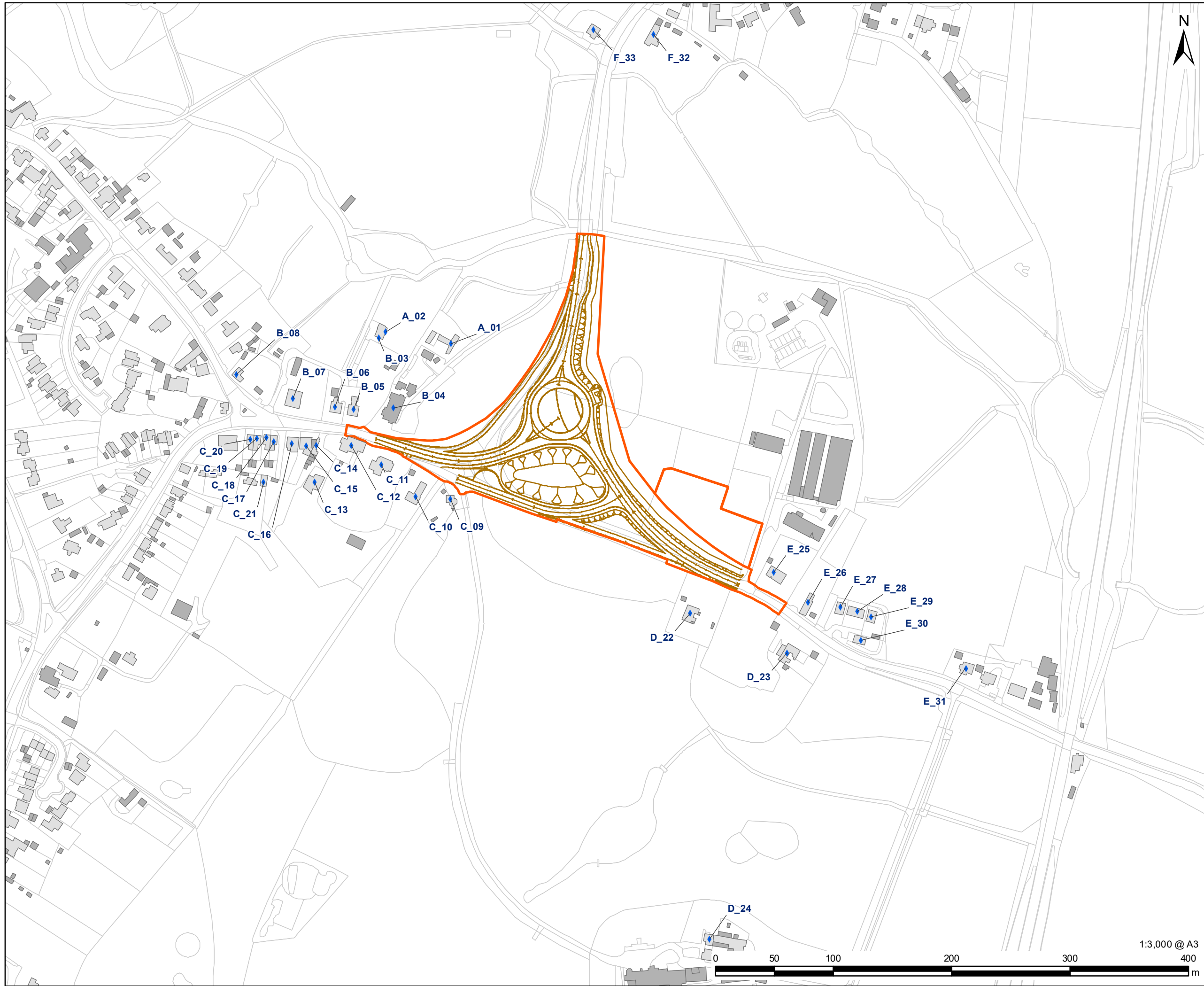
ID	Façade	Max Day	Combined							Individual													
			1.2+1.3	2.1+9.1	3.1+9.1	4.1+9.1	4.2+6.1+7.1+8.1+9.1	4.4+5.1+9.1	4.3+9.1 Night	1.1 Veg clearance	1.2 Site clearance	1.3 Compound build	2.1 Earthworks	3.1 Drainage	4.1 Pave-new	4.2 Pave-remove	4.3 Pave-Night Tie-ins	4.4 Pave-Day Tie-ins	5.1 Footpaths	6.1 Fencing	7.1 Signs	8.1 Lighting	9.1 Compound operation
A_01	E	72	66	67	64	69	72	70	71	67	66	50	67	64	69	72	71	65	69	57	58	54	33
A_01	N	57	53	55	52	52	57	55	63	52	53	40	55	52	52	55	63	51	53	49	49	40	-
A_01	S	66	60	61	58	61	63	66	69	62	60	46	61	58	61	62	69	64	61	45	54	50	-
A_02	E	63	58	60	57	61	63	62	65	59	58	46	60	57	61	63	65	58	60	50	52	47	-
B_03	S	61	58	59	57	59	60	61	62	59	58	44	59	57	59	59	62	60	56	48	49	45	-
B_04	E	82	65	66	64	68	79	82	80	68	65	49	66	64	68	79	80	80	77	54	63	58	-
B_04	N	69	59	60	58	62	69	69	69	61	59	41	60	58	62	69	69	67	66	45	51	48	-
B_04	S	82	62	63	61	65	79	82	81	65	62	47	63	61	65	79	81	81	77	49	60	54	-
B_04	W(n)	67	45	48	45	53	63	67	66	54	45	31	48	45	53	63	66	65	60	33	44	39	-
B_04	W(s)	70	52	54	52	58	67	70	69	58	52	34	54	52	58	67	69	68	64	37	47	43	-
B_05	E	76	59	61	59	63	74	76	76	63	59	41	61	59	63	74	76	75	71	46	56	52	-
B_05	N	61	51	53	50	53	58	61	61	51	51	40	53	50	53	57	61	59	56	47	46	40	-

ID	Façade	Max Day	Combined							Individual													
			1.2+1.3	2.1+9.1	3.1+9.1	4.1+9.1	4.2+6.1+7.1+8.1+9.1	4.4+5.1+9.1	4.3+9.1 Night	1.1 Veg clearance	1.2 Site clearance	1.3 Compound build	2.1 Earthworks	3.1 Drainage	4.1 Pave-new	4.2 Pave-remove	4.3 Pave-Night Tie-ins	4.4 Pave-Day Tie-ins	5.1 Footpaths	6.1 Fencing	7.1 Signs	8.1 Lighting	9.1 Compound operation
B_05	S	77	60	61	59	64	73	77	76	63	60	46	61	59	64	73	76	75	71	47	56	52	-
B_05	W	70	54	55	53	57	64	70	70	57	54	41	55	53	57	64	70	69	61	44	48	43	-
B_06	E(n)	63	53	55	52	57	62	63	65	56	53	41	55	52	57	61	65	61	59	46	48	43	-
B_06	E(s)	70	56	57	55	61	68	70	70	59	56	43	57	55	61	67	70	69	65	47	50	46	-
B_06	S	75	59	61	58	63	71	75	74	63	59	46	61	58	63	71	74	74	69	44	54	49	-
B_06	W	67	55	56	54	59	64	67	67	58	55	45	56	54	59	64	67	66	62	42	49	44	-
B_07	E	71	60	61	58	62	69	71	71	62	60	47	61	58	62	68	71	70	66	46	53	48	-
B_07	N	62	55	56	53	56	62	62	63	55	54	44	56	53	56	62	63	60	59	48	48	44	-
B_07	S	68	57	58	56	60	66	68	68	59	57	46	58	56	60	66	68	66	64	45	51	47	-
B_07	W	57	47	49	47	51	55	57	58	50	47	38	49	47	51	55	58	55	51	37	40	35	-
B_08	NE	60	56	57	55	59	60	60	62	57	56	47	57	55	59	60	62	58	57	48	49	45	-
B_08	SE	60	55	56	53	57	59	60	61	55	54	46	56	53	57	58	61	58	55	47	47	43	-
B_08	SW	50	44	46	43	48	47	50	50	44	44	33	46	43	48	46	50	49	44	35	36	32	-
C_09	E	77	70	71	69	77	76	72	74	73	70	51	71	69	77	76	74	69	70	54	59	57	31
C_09	N	80	70	71	69	78	80	78	79	76	70	49	71	69	78	80	79	75	74	54	61	60	-
C_09	W(n)	73	61	63	60	69	73	71	73	70	61	47	63	60	69	73	73	69	68	47	54	52	-
C_09	W(s)	65	55	57	55	61	63	65	65	58	55	40	57	55	61	62	65	64	59	41	47	43	-
C_10	E	76	67	68	66	71	76	73	75	72	67	42	68	66	71	76	75	69	70	52	57	56	-
C_10	N	82	69	70	68	74	80	82	81	74	69	52	70	68	74	80	81	80	77	54	63	61	31
C_10	S	61	51	53	49	56	61	61	60	54	51	37	53	49	56	60	60	60	57	38	43	41	-
C_10	W	77	60	61	59	64	74	77	76	62	60	44	61	59	64	74	76	76	72	48	56	54	-
C_11	E	82	65	66	64	68	78	82	81	68	65	50	66	64	68	78	81	80	76	53	63	59	-
C_11	N	85	66	67	65	69	81	85	85	69	66	51	67	65	69	80	85	84	79	53	64	59	-
C_11	S	61	56	57	54	60	60	61	61	56	56	44	57	54	60	60	61	59	57	43	47	43	-
C_11	W	73	54	56	54	57	72	73	76	57	54	36	56	54	57	72	76	70	70	48	51	45	-
C_12	E	80	64	66	63	68	78	80	82	67	64	49	66	63	68	78	82	78	76	52	60	56	-
C_12	N	79	63	64	62	66	77	79	80	65	63	47	64	62	66	77	80	77	75	51	60	55	-
C_12	S	66	56	57	55	57	63	66	66	57	56	44	57	55	57	63	66	65	60	44	48	46	-
C_12	W	58	53	54	51	55	57	58	60	53	53	46	54	51	55	56	60	56	53	44	46	38	-
C_13	E	68	59	60	57	61	67	68	69	60	58	48	60	57	61	66	69	66	64	49	49	44	-
C_13	N	68	58	59	56	61	65	68	67	59	58	46	59	56	61	65	67	66	63	47	53	46	-
C_14	NE	63	54	56	53	57	63	63	63	56	54	37	56	53	57	62	63	60	60	46	49	44	-
C_14	SE(n)	62	53	55	52	56	61	62	62	55	53	38	55	52	56	60	62	60	58	46	47	44	-

ID	Façade	Combined								Individual													
		Max Day	1.2+1.3	2.1+9.1	3.1+9.1	4.1+9.1	4.2+6.1+7.1+8.1+9.1	4.4+5.1+9.1	4.3+9.1 Night	1.1 Veg clearance	1.2 Site clearance	1.3 Compound build	2.1 Earthworks	3.1 Drainage	4.1 Pave-new	4.2 Pave-remove	4.3 Pave-Night Tie-ins	4.4 Pave-Day Tie-ins	5.1 Footpaths	6.1 Fencing	7.1 Signs	8.1 Lighting	9.1 Compound operation
C_14	SE(s)	68	58	59	56	58	65	68	68	57	58	43	59	56	58	65	68	67	62	44	49	48	-
C_15	N	62	55	56	54	56	62	62	62	56	55	45	56	54	56	61	62	58	59	47	49	44	-
C_15	S	56	51	52	50	54	55	56	56	51	51	42	52	50	54	55	56	53	52	42	44	40	-
C_16	N	61	55	56	53	57	61	61	61	55	55	45	56	53	57	60	61	57	58	47	49	43	-
C_16	S	56	52	53	51	54	56	56	56	51	52	42	53	51	54	55	56	54	53	43	45	41	-
C_17	E	58	55	56	53	56	58	58	60	54	55	46	56	53	56	57	60	55	55	47	48	42	-
C_17	N	61	54	55	53	57	61	60	61	55	54	43	55	53	57	61	61	56	58	46	48	43	-
C_17	S	57	54	54	52	55	56	57	57	52	53	44	54	52	55	56	57	54	53	43	45	41	-
C_18	N	61	54	55	53	55	61	60	61	55	54	43	55	53	55	60	61	56	57	46	48	43	-
C_18	S	57	54	55	52	55	57	57	58	53	53	44	55	52	55	56	58	54	54	43	46	41	-
C_19	E	54	51	52	49	51	54	54	55	48	50	42	52	49	51	53	55	52	51	42	43	38	-
C_19	N	58	53	54	51	55	58	58	59	53	52	40	54	51	55	57	59	53	56	45	47	42	-
C_19	S	56	53	54	51	55	56	56	56	52	53	44	54	51	55	55	56	53	53	43	45	41	-
C_20	N	59	53	54	51	55	58	59	59	53	53	34	54	51	55	58	59	56	56	45	47	42	-
C_20	S	56	53	54	51	55	56	56	56	52	52	44	54	51	55	56	56	53	53	43	45	41	-
C_21	E	55	52	53	50	53	54	55	56	50	51	44	53	50	53	54	56	53	52	42	44	39	-
C_21	N	61	54	55	53	56	59	61	60	55	54	44	55	53	56	58	60	59	58	44	49	43	-
D_22	E	72	65	65	62	55	57	72	73	54	63	60	65	62	55	51	73	72	62	55	43	38	38
D_22	N	80	72	72	70	68	70	80	80	69	71	66	72	70	68	69	80	78	76	63	56	50	45
D_22	S	59	55	56	53	53	55	59	60	51	54	47	56	53	53	54	60	57	55	46	43	38	-
D_22	W	76	69	70	67	67	69	76	75	68	68	63	70	67	67	69	75	72	74	60	56	50	42
D_23	E	59	59	53	51	39	48	55	57	36	52	58	53	51	38	39	57	54	42	47	36	31	33
D_23	N	69	66	65	63	62	63	69	70	60	64	62	65	63	62	61	70	68	64	57	52	46	39
D_23	S	64	58	59	56	59	59	64	63	58	57	50	59	56	59	59	63	60	62	47	48	43	-
D_23	W(c)	69	63	63	61	61	63	69	69	60	62	57	63	61	61	61	69	67	64	54	51	45	36
D_23	W(n)	70	66	65	62	62	63	70	70	61	63	62	65	62	62	62	70	68	65	56	52	46	38
D_23	W(s)	69	65	64	62	62	63	69	69	60	63	61	64	62	62	62	69	67	65	55	51	46	38
D_24	NE	57	55	54	51	53	55	57	57	52	53	50	54	51	53	53	57	54	53	46	45	40	-
D_24	NW	54	53	52	49	53	54	54	56	51	51	48	52	49	53	53	56	51	51	45	45	39	-
E_25	E	68	61	62	59	56	61	68	69	58	60	52	62	59	56	60	69	67	64	51	45	37	32
E_25	N	64	64	59	57	56	57	61	61	50	58	63	59	57	56	54	61	59	57	51	48	42	37
E_25	S	76	70	70	67	62	65	76	77	62	68	65	70	67	62	63	77	75	68	60	49	44	42
E_25	W	75	72	71	68	63	66	75	76	63	69	69	71	68	63	64	76	74	68	62	51	46	45

ID	Façade	Combined								Individual													
		Max Day	1.2+1.3	2.1+9.1	3.1+9.1	4.1+9.1	4.2+6.1+7.1+8.1+9.1	4.4+5.1+9.1	4.3+9.1 Night	1.1 Veg clearance	1.2 Site clearance	1.3 Compound build	2.1 Earthworks	3.1 Drainage	4.1 Pave-new	4.2 Pave-remove	4.3 Pave-Night Tie-ins	4.4 Pave-Day Tie-ins	5.1 Footpaths	6.1 Fencing	7.1 Signs	8.1 Lighting	9.1 Compound operation
E_26	E	59	59	56	53	55	57	57	57	52	55	58	56	53	55	56	57	54	54	48	45	41	34
E_26	N	69	62	61	59	55	60	69	69	55	60	59	61	59	55	59	69	67	64	51	45	41	36
E_26	S	69	63	63	60	59	62	69	70	57	61	58	63	60	59	61	70	68	64	53	48	43	37
E_26	W	72	66	66	64	61	64	72	72	60	65	62	66	64	61	63	72	70	67	57	51	46	40
E_27	E	56	56	55	53	53	53	56	56	50	54	52	55	53	53	51	56	53	53	46	45	38	-
E_27	N	65	63	61	58	58	60	65	66	56	59	61	61	58	58	59	66	63	61	53	49	44	37
E_27	S	65	60	60	57	57	59	65	65	56	58	54	60	57	57	58	65	63	61	51	47	40	33
E_27	W	68	65	63	61	60	62	68	69	59	62	62	63	61	60	61	69	66	64	55	50	45	38
E_28	N	62	62	59	57	58	60	58	60	55	58	60	59	57	58	58	60	56	55	53	49	44	36
E_28	S	51	47	47	44	44	46	51	51	42	45	43	47	44	44	45	51	49	48	37	35	-	-
E_28	W	50	49	48	44	43	46	50	51	41	46	46	48	44	43	43	51	48	46	40	37	31	-
E_29	N	62	61	59	56	57	59	62	62	55	57	58	59	56	57	57	62	59	58	51	48	42	35
E_29	S	60	56	55	52	53	55	60	60	50	53	52	55	52	53	53	60	58	57	47	44	39	30
E_29	W	59	59	57	54	55	57	59	60	52	55	56	57	54	55	56	60	56	56	49	47	41	33
E_30	N	60	56	54	52	52	56	60	59	50	53	53	54	52	52	55	59	57	58	45	43	38	-
E_30	S	64	53	53	50	52	58	64	63	52	52	48	53	50	52	58	63	61	61	39	41	34	-
E_30	W	67	58	57	54	56	62	67	67	55	56	54	57	54	56	62	67	64	64	48	46	40	32
E_31	N	56	54	52	49	52	55	56	57	49	50	52	52	49	52	54	57	52	53	45	44	38	-
E_31	S	56	53	53	50	52	54	56	56	51	51	49	53	50	52	54	56	53	54	45	43	37	-
E_31	W	59	56	55	52	54	57	59	59	53	53	52	55	52	54	56	59	55	56	47	45	39	-
F_32	SW	62	57	57	55	58	61	62	63	58	56	50	57	55	58	60	63	60	57	50	50	45	-
F_33	S	62	57	58	55	58	60	62	64	59	56	49	58	55	58	58	64	61	55	50	51	45	-

Figure 1. Yoxford Roundabout Construction Location Plan



- LEGEND**
- ◆ Construction noise receptors (with label)
 - Residential building
 - Non-residential building
 - Red Line Planning Boundary
 - Scheme design



NOTES

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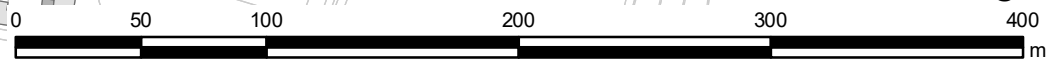
ISSUE PURPOSE
FINAL

PROJECT NUMBER
60679030_NI_YOX_CONST_1

FIGURE TITLE
Yoxford Roundabout Construction Location Plan

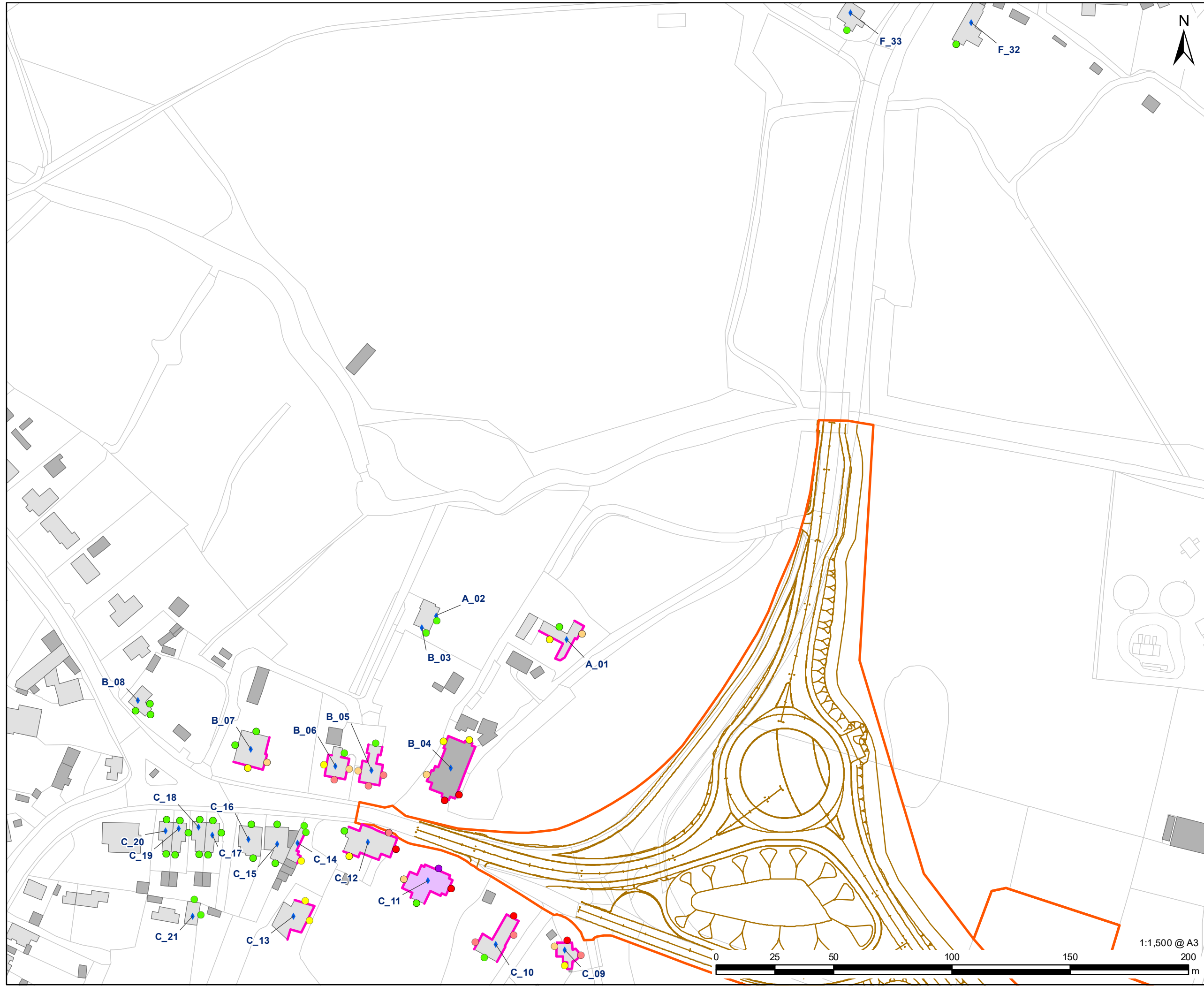
FIGURE NUMBER
Figure 1

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Figure 2. Yoxford Roundabout Construction NMS Qualification



- >=84.5 Daytime and Sat am threshold for temporary re-housing
- 79.5-84.4 Shoulder hours threshold for temporary re-housing
- 74.5-79.4 Weekday and Sat am threshold for noise insulation and Sat pm temporary re-housing
- 69.5-74.4 Shoulder hours threshold for noise insulation
- 64.5-69.4 Sat pm threshold for noise insulation
- <64.5 No Qualification
- ◆ Construction noise receptors (with label)
- Facade qualifying for noise insulation
- Property qualifying for temporary rehousing
- Residential building
- Non-residential building
- Red Line Planning Boundary
- Scheme design



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FIGURE TITLE
Yoxford Roundabout Construction NMS Qualification
Sheet 1 of 2

FIGURE NUMBER
Figure 2



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LEGEND

**Daytime Construction Noise Level
 LAeq, T dB facade**

- >=84.5 Daytime and Sat am threshold for temporary re-housing
- 79.5-84.4 Shoulder hours threshold for temporary re-housing
- 74.5-79.4 Weekday and Sat am threshold for noise insulation and Sat pm temporary re-housing
- 69.5-74.4 Shoulder hours threshold for noise insulation
- 64.5-69.4 Sat pm threshold for noise insulation
- <64.5 No Qualification
- ◆ Construction noise receptors (with label)
- Facade qualifying for noise insulation
- Property qualifying for temporary rehousing
- Residential building
- Non-residential building
- Red Line Planning Boundary
- Scheme design



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PROJECT NUMBER

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FIGURE TITLE

Yoxford Roundabout Construction NMS Qualification
 Sheet 2 of 2

FIGURE NUMBER

Figure 2

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