



**A380 South Devon  
Link Road**

Doc.No: AR0001/s61/0003  
Rev. No : 00  
Date : 02/08/13

**s61 APPLICATION CONTROL OF POLLUTION ACT 1974**

**APPLICATION FORM FOR APPROVAL**

<b>Reference No :</b> AR0001/s61/0003	<b>TITLE:</b> Sheet pile and ties for the flood alleviation culvert at Sainsbury Compound.
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	YES	NO
Works within Normal Working hours only		X
Reason for application	Works are to occur out of hours to ensure the safe passage of articulated vehicles to the Sainsbury Store.	

We hereby submit this s61 Application covering the construction activities / works listed below in accordance with Appendix 1/9 to the Specification and certify that the methods, plant and steps to minimise noise (including vibration) are best practicable means in accordance with section 72 of the *Control of Pollution Act 1974* and section 79(9) of the *Environmental Protection Act 1990* and are fully in accordance with the Contract.

Galliford Try Representative

Signed: Ian Yelf

Name: Ian Yelf ..... Date: 5 AUGUST 2013.....

<b>1. Address or location of proposed works</b>	Sainsbury's Superstore Penn Inn Newton Abbot TQ12 1BN
<b>2. Name and address of main Contractor</b>  <b>Responsible Person.</b> <b>Telephone No.</b>	Galliford Try A380 SDLR Kingskerswell Bypass Site Office Old Newton Road Kingskerswell Newton Abbot Devon TQ12 5LB  Cathal Kelly, Section Manager T: 01626 357729
<b>3. Particulars of works to be carried out</b>	Cutting and excavation of trenches across the road. Placement of sheet piles for retaining wall structure and tie ins. The retaining wall structure is shown in Figure 1. The connecting tie rods through the excavations below the road and tie into anchor sheet piles constructed on the other side of the road.  Date of works: 19 <sup>th</sup> to 21 <sup>st</sup> August 2013 Hours of works: 1900 to 0500 hrs
<b>4. Methods to be used in each stage of development</b>	Refer to Appendix A.
<b>5. Duration and hours of works</b>	Refer to Appendix A.
<b>6. Number, type and make of plant and machinery</b>	Refer to Appendix A.
<b>7. Proposed steps to minimise noise and vibration</b>	Refer to Appendix B.
<b>8. Predicted Noise Levels</b>	Refer to Appendix C.
<b>9. Predicted Vibration Levels</b>	The equipment to be used in these activities are not considered to generate appreciable levels of vibration and therefore no assessment has been undertaken.
<b>10. Site Plan</b>	Figure 1 Location and Sensitive Receptor Plan.
<b>11. Consultees</b>	Devon County Council Teignbridge District Council
<b>13. Other Information</b>	No other works are being concurrently undertaken. The residents will be notified by our Public Liaison team regarding the works.

## APPENDIX A

### - Method of Works

#### A1. Installation of sheet pile retaining wall

The works involve the construction of a retaining wall at the inlet of the new flood alleviation culvert, located in the Sainsbury store. The works require an anchor sheet pile wall to be constructed on the other side of the road connected with tie rods.

##### **Outline working method**

The work sequence is as follows:

##### *Phase 1 (circa 2 hours)*

- The road formation around the area for the 4 structural ties will be saw-cut and blacktop/concrete obstructions broken out.
- The road and kerbs will be cut along the alignment for the anchor sheet piles and blacktop/concrete broken out.

##### *Phase 2 (circa 8 hours)*

- Trenches across the road will be excavated to a depth of 900 mm.
- A 200 mm duct will be placed and backfilled. The backfill will be compacted by whacker plate.
- The sheet pile trenches will be excavated to 1.5 m depth to allow for installation of sheetpiles. The piles will be installed during normal working hours.
- Trenches to be backfilled and compacted using whacker plate.

Activity/Plant Type	No.	% On-Time	L <sub>Req</sub> at 10m	Reference	Comment
<b>General activities</b>					
Lighting tower and generator	2	100	63	Average of BS 5228-1:2009 Table C.4:76-87	Only to be used during evening and night time hours.
<b>Road Sawing and Breakout</b>					
Road Saw	1	75	84	BS 5228-1:2009 Table C.4:73	
6T Dumper	1	75	76	BS 5228-1:2009 Table C.4:4	
5T Takeuchi Excavator with Breaker	1	75	83	BS 5228-1:2009 Table C.5:2	
Kobelco SK210LC with Breaker	1	75	83	BS 5228-1:2009 Table C.5:2	
<b>Trench Excavation</b>					
5T Takeuchi Excavator with Breaker	1	75	83	BS 5228-1:2009 Table C.5:2	
Kobelco SK210LC with Breaker	1	75	83	BS 5228-1:2009 Table C.5:2	
6T Dumper	1	75	76	BS 5228-1:2009 Table C.4:4	
<b>Trench Reinstatement</b>					
Excavator	1	75	74	BS 5228-1:2009 Table C.4:67	
6T Dumper	1	75	76	BS 5228-1:2009 Table C.4:4	
Whacker Plate	1	75	82	BS 5228-1:2009 Table C.5:29	

## APPENDIX B

### - Methods to reduce noise

#### B1. Methods to minimise nuisance

1. Prior to works commencing any preparatory engineering works will be undertaken in normal working hours.
2. All affected residents will be notified before works commence.
3. An acoustic screen will be placed around the works, between the construction site and the properties on Keyberry Road.
4. The most noisy works are the operation of the breaker, road saw and excavator. These works will be undertaken within the 1<sup>st</sup> 2 hours.
5. Prior to the out of hour works, mobilisation and demobilisation of materials and plant will occur during normal working hours, minimising activity in sensitive periods i.e. only those activities that have to occur out of hours will be undertaken.
6. All operatives will be briefed on the measures within this plan and the sensitivity of surrounding properties to noise emissions, especially occurring at night.
7. All tower lights will be super-silenced and inspected to ensure they are operating appropriately.
8. Any idling plant will be turned off when not in use.
9. All waste away will be undertaken in normal working hours.
10. Sheet piling will be undertaken in normal working hours only.

#### B2. Noise/Vibration Monitoring Programme

Galliford Try will carry out monitoring at regular intervals during the night and at each phase of the works. Attended noise monitoring will be undertaken as close as possible to the receptors identified in Appendix C and Figure 1 to assess compliance.

Monitoring will be undertaken over a 15 minute period at each location with a Class 1 Sound Level Meter. Levels will be measured in terms of  $L_{Aeq, 15 mins}$  and  $L_{Amax,F}$ . In addition weather conditions, wind direction and strength will be recorded, along with observations on the dominant noise source and construction activity.

In addition the works will be assessed by the monitorer to ensure they are being undertaken in accordance with the s61 Application.

## APPENDIX C

### - Predicted noise thresholds at key receptors

Predictions have been undertaken using the SiteNoise module of NoiseMap Enterprise, version 2.7.1. This software follows the construction noise calculation procedure in British Standard 5228 Code of Practice for Noise and Vibration Control on Construction and Open Sites: 2009. No allowance has been made for natural screening or manmade structures between the works. The model takes into account land attenuation and reflection from properties.

The predictions are based on 5 groups of workers, working on the tree sets concurrently and they are considered as worst case.






**Table 1. Predicted Noise Thresholds**

Receptor Location	Road Sawing and Breakout	Trench Excavation	Trench Reinstatement
14 Keyberry Road (144 m North-West)	58.2	56.2	53.3
20 Keyberry Road (99 m NW)	67.2	65.2	62.3
Little Mount, Keyberry Park (89 m West)	63.3	61.3	58.4
1 Keyberry Road (89 m South-West)	64.1	62.1	59.2
3 Keyberry Mill (82 m South-West)	64.3	62.3	59.4

A cumulative number of exceedances will be maintained by the site team.



**Key**

-  Area of Works
-  Noise Prediction Stations
-  Noise Prediction Properties
-  Acoustic Barrier (2 m)
-  Brick wall (1.7 m)

Rev.	Details	Drawn	Date
		CRJL	
Project 123213 A380 Bypass Newton Abbot			
Title Site Location and Sensitive Receptor Plan			
 AAE Environmental Ltd Units 4 to 6 Chelwell Court Shepperton Milling Chan OX12 8JG T: (01295) 535642 F: (01295) 232649 www.aae-ll.com			
Scale	Date	Dwg. No.	Rev.
1:1000 @ A3	July 13	RC	ML
		Chk.	Figure 1

