



NORTHAMPTON  
**GATEWAY**  
STRATEGIC RAIL FREIGHT INTERCHANGE

COMMITMENTS TRACKER

**DOCUMENT 6.11**

The Northampton Gateway Rail Freight Interchange Order 201X

Regulation No: 5 (2) (q)

COMMITMENTS TRACKER | MAY 2018

OXALIS PLANNING

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This Schedule sets out the commitments, mitigation controls and other best practice measures identified in the Environmental Statement and other parts of the application. It lists where those controls and measures will be enforced or secured, including with regard to the requirements contained in Schedule 2 of the Development Consent Order (as drafted at date of submission) and the S106 Agreement where relevant.

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	ENVIRONMENTAL STATEMENT: PROPOSED MITIGATION or BEST PRACTICE MEASURES	SCHEDULE 2 REQUIREMENT NUMBER OR S106 AGREEMENT REFERENCE
<b>Chapter 1 – Introduction</b>		
1	No mitigation measures outlined or relevant within this chapter	
<b>Chapter 2 – Description of Development</b>		
2	No mitigation measures outlined or relevant within this chapter	
<b>Chapter 3 – Socio-economic – Enhancement Measures</b>		
1	A recruitment/training programme with a focus on the South Northamptonshire Jobs Club	<i>S106 Obligation</i>
2	Advertising jobs using Universal Jobmatch, and liaison with Jobcentre Plus in locations where deprivation has been identified.	<i>S106 Obligation</i>
3	Engagement with local colleges and training providers to identify opportunities for 'external' workforce training provision to help local skills and employment.	<i>S106 Obligation</i>
4	Contractors encouraged to adopt local sourcing to maximise supply chain benefits.	<i>S106 Obligation</i>
<b>Chapter 4 – Landscape and Visual – ‘Section 5: Landscape Strategy, Design and Mitigation’</b>		
1	Formation of earthworks and mounding to most of the Main Site's perimeter and new native planting.	<i>Requirement 3 Components of development and phasing; Requirements 8 and 9 Detailed design approval; Requirement 10 Provision of landscaping.</i>
2	Management and maintenance of the landscape areas and features through a Landscape & Ecological Management Plan (LMP).	<i>Requirement 11 Landscape and Ecological Management Plan</i>
3	Early implementation of some of the outer and perimeter landscape and associated earthworks will assist in minimising some of the indirect influences over the immediate surrounding landscape during the construction period.	<i>Requirement 3 Components of development and phasing;</i>
4	Well managed and controlled on-site activities, and application of good practices	<i>Requirement 12 Construction Environmental Management</i>

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	throughout the construction process will minimise the potential adverse visual effects from construction.	<i>Plan (CEMP)</i>
5	Comprehensive management of not only the proposed planting and habitats but also the existing conserved woodland, trees, hedgerows and other habitats will assist in reducing the initial operational landscape and visual effects.	<i>Requirement 11 Landscape and Ecological Management Plan</i>
6	The retained main woodlands of Highgate and Churchill's within the main site area will be conserved and protected during the course of construction and operation.	<i>Requirement 10 Provision of landscaping. Requirement 12 Construction Environmental Management Plan (CEMP)</i>
7	Integrating Sustainable Drainage (SUDs) features and measures within the landscaping to deliver valuable biodiversity and amenity benefits wherever practicable.	<i>Requirement 8 and 9 Detailed design approval. Requirements 11 Landscape and Ecological Management Plan Requirements 17, 18 and 19 Flood risk and surface water drainage</i>
<b>Chapter 5 – Ecology Nature and Conservation – Mitigation and Compensation</b>		
1	Effects upon non-statutory sites of nature conservation interest, and general land-take, are minimised by limiting the overall area lost to the Proposed Development.	<i>Secured via Parameters Plan which defines the extent of built development</i>
2	<p>Avoidance measures built into the layout of the Proposed Development to minimise or eliminate adverse impacts on ecological and biodiversity receptors – core measures including:</p> <ul style="list-style-type: none"> <li>- Woodland, hedges and mature trees retained wherever possible to maintain habitat connectivity, including the riparian habitats of RW1 at the Main Site;</li> <li>- Minimising the loss of neutral grassland of the hay meadow of Roade Field pLWS adjacent to the Bypass;</li> <li>- Retention of semi-improved grassland adjacent to Highgate woodland at the Main Site which supports a common lizard population;</li> <li>- Retention of pond P1 at the Main Site which supports a large GCN population.</li> </ul>	<i>Requirements 8 and 9 Detailed design approval. Requirement 10 Provision of landscaping. Requirement 11 Landscape and Ecological Management Plan.</i>



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3	<p>The Green Infrastructure (GI) provided will include a substantial area of informal space comprising a range of semi-improved habitats providing mitigation for the loss of habitat through:</p> <ul style="list-style-type: none"> <li>- Creation of an inter-connected mosaic of habitats, including woodland and scrub;</li> <li>- Creation of species-rich grassland that are characteristic of the county (e.g. MG5 <i>Cynosurus cristatus</i>);</li> <li>- Creation of a network of wetland features as part of the sustainable drainage scheme with marginal plant species similar to those associated with Collingtree Golf Course LWS;</li> <li>- Planting of heavy standard trees;</li> <li>- Planting of species-rich hedgerows.</li> </ul>	<p><i>Requirement 10 Provision of landscaping.</i> <i>Requirement 11 Landscape and Ecological Management Plan</i></p>
4	<p>P-CEMPS will identify specific areas for the protection of ecological features and provide details of avoidance and mitigation measures. Best practice measures will be employed to avoid potential disturbance to non-statutory sites of nature conservation interest, including:</p> <ul style="list-style-type: none"> <li>- Control of accidental pollution events during construction;</li> <li>- Control of dust during construction;</li> <li>- Protection of retained vegetation through the use of stand-offs, including the implementation of BS5837 (2012) regarding trees and hedges;</li> <li>- Sustainable drainage to maintain water run-off at existing greenfield rate and quality.</li> </ul>	<p><i>Requirement 12 Construction Environmental Management Plan (CEMP)</i></p>
5	<p>Increased recreational pressure upon designated non-statutory sites of nature conservation interest (e.g. unnamed pLWS) will be managed through detailed design by implementing principles as appropriate, such as:</p> <ul style="list-style-type: none"> <li>- Limiting access to sensitive areas through the use of fencing or strategic planting of native species;</li> </ul>	<p><i>Requirement 11 Landscape and Ecological Management Plan</i>  <i>Requirement 12 Construction Environmental Management Plan (CEMP)</i></p>

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	<ul style="list-style-type: none"> <li>- Provision of waymarked and surfaced footpaths to provide clear routes of access around sensitive areas;</li> <li>- Use of interpretation to explain the importance of sensitive habitats;</li> <li>- Providing litter bins.</li> </ul>	
6	All retained habitats, including woodland, the veteran tree, and hedgerows, to be protected through the lifetime of the proposed development	<i>Requirement 11 Landscape and Ecological Management Plan</i> <i>Requirement 12 Construction Environmental Management Plan (CEMP)</i>
7	Release of airborne dust particles, and prevention of accidental spillages entering local watercourses through best practice measures during construction, and through the design of the drainage system, ensuring safe storage of material and management of any silt generated.	<i>Requirement 12 Construction Environmental Management Plan (CEMP)</i>
8	Neutral grassland affected by the Bypass will be translocated to a nearby receptor area (identified alongside the Bypass) adjacent to the existing hay meadow Road Field pLWS.	<i>Requirement 10 Provision of landscaping.</i> <i>Requirement 11 Landscape and Ecological Management Plan</i>
9	Loss of ponds P2 and P3 at the main site will be mitigated through creation of ponds constructed to maximise their benefit for wildlife. Water/drainage bodies will be shaped to provide a range of bank angles and heights to encourage a diverse range of flora and fauna.	<i>Requirement 3 Components of development and phasing.</i> <i>Requirements 8 and 9 Detailed design approval.</i> <i>Requirement 10 Provision of landscaping.</i>
10	Any sections lost from Hedgerows of County importance will be translocated together with their soil to an area of retained green infrastructure. Translocation will be completed at an appropriate time of year using best practice working methods.	<i>Requirement 10 Provision of landscaping.</i> <i>Requirement 11 Landscape and Ecological Management Plan</i>

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11	<p><i>Badgers Mitigation</i> – Best practice measures will be adopted to avoid risk of harm to badgers. This will include a range of actions:</p> <ul style="list-style-type: none"> <li>• During construction, precautionary surveys in advance of site clearance, covering large pipes, pits or trenches, and leaving an adequate means of escape where appropriate, as well as badger fencing where necessary to prevent access or to guide badgers to suitable areas;</li> <li>• Work affecting an active sett or likely to cause disturbance completed under Natural England licence – this would include provision of a replacement sett where appropriate.</li> <li>• Design to incorporate tunnels and fencing to ensure connectivity is maintained between setts and foraging areas where required.</li> </ul>	<p><i>Requirement 3 Components of development and phasing.</i></p> <p><i>Requirement 11 Landscape and Ecological Management Plan</i></p>
12	<p><i>Bats Mitigation</i> - This will include a range of actions, proposed for implementation under a Bat Low Impact Class Licence:</p> <ul style="list-style-type: none"> <li>• Pre-demolition survey prior to works on the barns;</li> <li>• Demolition to include soft-stripping of suitable roosting under supervision of licensed bat worker;</li> <li>• Bat boxes sited on retained features prior to demolition;</li> <li>• Removal of mature trees according to a precautionary method statement;</li> <li>• Lighting design to shield sensitive areas;</li> <li>• Landscape design to maintain important bat commuting routes through retained and new vegetation.</li> </ul>	<p><i>Requirement 8 and 9 Detailed design approval</i></p> <p><i>Requirement 10 Provision of landscaping.</i></p> <p><i>Requirement 11 Landscape and Ecological Management Plan</i></p> <p><i>Requirement 12 Construction Environmental Management Plan (CEMP)</i></p>
13	<p><i>Birds Mitigation</i> – This will include a range of actions:</p> <ul style="list-style-type: none"> <li>• A range of open habitats will be provided in the south of the main site, including open dry and wet grassland habitats;</li> <li>• Site clearance works, including tree/hedge removal, conducted wherever possible outside of bird breeding season – activity during the season to be</li> </ul>	<p><i>Requirement 10 Provision of landscaping.</i></p> <p><i>Requirement 11 Landscape and Ecological Management Plan</i></p>

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	<p>preceded by nesting bird surveys;</p> <ul style="list-style-type: none"> <li>• Replacement nest boxes for Barn Owl in advance of loss of existing (occasional) roots on the main site.</li> <li>• On Bypass corridor strategic landscaping and planting to mitigate risk of harm to Barn Owls through screening and ‘hop-overs’.</li> </ul>	<p><i>Requirement 12 Construction Environmental Management Plan (CEMP)</i></p>
14	<p><i>GCN Mitigation</i> - Best practice measures will be adopted to avoid risk of harm and to comply with legal requirements. This will include a range of actions delivered through a Natural England license:</p> <ul style="list-style-type: none"> <li>• Removal of GCN from the working areas of the Proposed Development;</li> <li>• Terrestrial habitat trapping within 500m of suitable ponds for at least 90 days, with captured newts moved to receptor area surrounding retained pond P1, with features provided to improve capacity (hibernacular, etc);</li> <li>• Supervised dismantling of all suitable hibernation habitat under licence following trapping;</li> <li>• Pond and other habitat created during construction;</li> <li>• Design details of roads and hardstanding near to GCN ponds will incorporate use of tunnels, amphibian fencing, and other permanent features, maintained under EPS licence;</li> </ul>	<p><i>Requirements 8 and 9 Detailed design approval</i></p> <p><i>Requirement 11 Landscape and Ecological Management Plan</i></p> <p><i>Requirement 12 Construction Environmental Management Plan (CEMP)</i></p>
15	<p><i>Reptiles Mitigation</i> – measures to ensure no harm at the Junction 15 Grassland area, and at the existing railway embankments, including:</p> <ul style="list-style-type: none"> <li>• Directional strimming of vegetation towards suitable retained habitat immediately prior to commencement of works and during appropriate weather conditions and seasons;</li> <li>• A fingertip search of the working area immediately prior to any ground works.</li> </ul>	<p><i>Requirement 11 Landscape and Ecological Management Plan</i></p> <p><i>Requirement 12 Construction Environmental Management Plan (CEMP)</i></p>
16	<p>The Landscape and Ecological Management Plan sets objectives and management</p>	<p><i>Requirement 11 Landscape and Ecological Management</i></p>

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	<p>prescriptions aimed at benefitting biodiversity over the long-term. The LEMP focuses on effective management of all retained semi-natural and newly created habitats, including with regard to targets and aspirations of the Northamptonshire BAP. The LEMP will help govern timing and management of GI, and contain detailed actions regarding a scheme of additional bat boxes within retained woodland, and additional bird boxes.</p>	<p><i>Plan</i></p>
<p><b>Chapter 6 – Geology, Soil and Groundwater – Mitigation</b></p>		
<p>1</p>	<p>Risks related to construction works will be managed by the adoption of the Construction Environmental Management Plan which will result in a very low to negligible impact on geology and soils. This will:</p> <ul style="list-style-type: none"> <li>• set out overarching systems and controls that will be adopted during construction of the scheme to minimise adverse environmental impacts;</li> <li>• be included within all construction contracts and all contractors will be required to comply with these overarching principles;</li> <li>• form the basis of Action Plans with regulators and establish agreed trigger levels to define monitoring requirements.</li> </ul>	<p><i>Requirement 12 Construction Environmental Management Plan (CEMP)</i></p>
<p>2</p>	<p>The CEMP will incorporate or have supplemental monitoring and management plans, including:</p> <ul style="list-style-type: none"> <li>• Measures and processes to manage air, noise, dust, light, and odour effects from construction;</li> <li>• Site waste management for demolition and construction phases;</li> <li>• Soil Management Plan relating to movement and storage of soils;</li> <li>• Earthworks strategy and specification relating to management and reuse of soil strata within earthworks (cut and fill)</li> </ul>	<p><i>Requirement 12 Construction Environmental Management Plan (CEMP)</i></p> <p><i>Requirement 13 Earthworks</i></p>
<p>3</p>	<p>The Waste Management Plan component of the CEMP will promote the reduction, re-use and recycling of waste, and reduce the amount of waste going to landfill. It is</p>	<p><i>Requirement 12 Construction Environmental Management</i></p>

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	anticipated that a cut and fill earthworks balance will minimise off-site disposal and importation of clean replacement materials. This will reduce lorry movements to a minimum and the subsequent environmental impacts.	<i>Plan (CEMP)</i>  <i>Requirement 13 Earthworks</i>
4	The Earthworks Specification will define the geotechnical classification and properties of insitu materials, how and where they may be reused to control the acceptability and suitability of materials reused.	<i>Requirement 12 Construction Environmental Management Plan (CEMP)</i> <i>Requirement 13 Earthworks</i> <i>Requirements 25 and 26 Contamination risk</i>
5	Risk assessments will be undertaken to identify main health and safety and environmental risks and indicate suitable mitigation to be put in place to reduce risks to acceptable levels	<i>Requirements 25 and 26 Contamination risk</i>  <i>Requirement 12 Construction Environmental Management Plan (CEMP)</i>
6	Careful positioning of plant, appropriate use of plant and appropriate methods of working including the use of dust suppression will be used, as appropriate, to minimise dust nuisance wherever possible and practical.	<i>Requirement 12 Construction Environmental Management Plan (CEMP)</i>
7	Temporary surface water control methods will be carefully designed and constructed to manage surface water runoff and avoid suspended solids and contamination reaching water courses or sewers or surface waters	<i>Requirement 12 Construction Environmental Management Plan (CEMP)</i>
8	Works methods will be designed to minimise risks to personnel and shall utilise appropriate plant and equipment. Where risks remain, appropriate training, supervision, personal protective equipment (PPE), welfare and hygiene measures will be put in place.	<i>Requirement 12 Construction Environmental Management Plan (CEMP)</i>  <i>Requirements 25 and 26 Contamination risk</i>
9	Site haul roads and construction movements will be limited, as far as reasonably possible, and main temporary haul roads will be sensitively positioned within reason to minimise impact to neighbours and the public.	<i>Requirement 12 Construction Environmental Management Plan (CEMP)</i>

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10	Potentially fugitive dust will be controlled by water dampeners as necessary, especially during the dry summer months during the earthworks, or other construction processes	<i>Requirement 12 Construction Environmental Management Plan (CEMP)</i>
11	Where possible works will be phased to minimise exposed open areas as far as is reasonable. Techniques and methods of construction will also be utilised to minimise this wherever possible with particular care taken to managing earthworks and temporary surface water drainage to avoid increased infiltration from surface water and migration of silts to water receptors.	<i>Requirement 12 Construction Environmental Management Plan (CEMP)</i> <i>Requirements 25 and 26 Contamination risk</i>
12	Earthworks embankment, cutting and foundation design will be undertaken using traditional construction methods to ensure that the reprofiled land across the Proposed Development is stable and buildings, infrastructure and surrounding adjacent land is suitably supported.	<i>Requirement 12 Construction Environmental Management Plan (CEMP)</i> <i>Requirement 13 Earthworks</i>
13	Wherever possible areas of the site designed to be open space, landscape or habitat will be left untouched by main earthworks. Areas of planned open space, landscape areas and habitat creation affected by significant cut and fill earthworks will be restored and reinstated to the requirements of the ecologists and landscape designers with planting undertaken to their requirements. Similarly where possible land form will also be to the requirements of landscape, visual requirements.	<i>Requirement 13 Earthworks</i>
14	Where works affect the area of open space, landscaping and habitat creation the recommendations of the Soil Code (The Code of Good Agricultural Practice for the Protection of Soils) will be adhered to in order to avoid causing long term change to the soils. Normal procedure is to strip topsoil with a bulldozer blade or excavator and to store it to one side of the working width. This will ensure separation from any other materials and will protect it from further stress.	<i>Requirement 12 Construction Environmental Management Plan (CEMP)</i> <i>Requirement 13 Earthworks</i>
15	The works programme will, wherever possible, attempt to schedule works during the spring and summer period to improve opportunities for phasing of soil handling and minimising harm to soil.	<i>Requirement 12 Construction Environmental Management Plan (CEMP)</i>

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		<i>Requirement 13 Earthworks</i>
16	Should sub-soil compaction be suspected, re-excavation and aeration or other appropriate cultivation can be undertaken, if required.	<i>Requirement 12 Construction Environmental Management Plan (CEMP)</i> <i>Requirement 13 Earthworks</i>
17	Bypass bridge design will be configured to avoid interfering with the slope of the railway cutting.	<i>Requirements 5 and 6 Highway Design</i>
18	Where (if) materials are required to be imported the Developer will endeavour to utilise recycled inert clean aggregate and soils sourced locally.	<i>Requirement 12 Construction Environmental Management Plan (CEMP)</i> <i>Requirement 13 Earthworks</i>
<b>Chapter 7 – Water Resources and Drainage – Mitigation Measures</b>		
1	In order to reduce the potential for large machinery to compact soils and increase the volume and rate of runoff, the movements of these vehicles will be restricted around the site or by creating a designated pathway for them to follow, thus reducing the area which can be affected	<i>Requirement 12 Construction Environmental Management Plan (CEMP)</i>
2	It is also proposed that to prevent localised flooding during the construction phase a temporary surface water management system is put in place to mitigate the potential detrimental effects. This would include ditches/ponds to produce temporary on-site attenuation	<i>Requirement 12 Construction Environmental Management Plan (CEMP)</i>
3	Any large area of exposed soil will also be kept covered or contained to prevent suspended soils from entering the water environment.	<i>Requirement 13 Earthworks</i>
4	During the infrastructure construction period the haul roads will be kept clear of mud deposits and pedestrian routes will be set up and maintained. Haul roads will be	<i>Requirement 12 Construction Environmental Management Plan (CEMP)</i>



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	damped down during dry and windy periods to minimise dust. A road sweeper will also be employed at regular intervals to keep public roads clear of mud, and there will be designated wheel washing facilities.	
5	Water from dewatering operations should pass through a stilling basin to allow suspended solids to settle out.	<i>Requirement 12 Construction Environmental Management Plan (CEMP)</i>
6	In order to prevent the leakage of oils and fuel from plant and machinery, machines will be checked for signs of wear and tear on a regular basis. Vehicle wash-down areas should be bunded and runoff routed through interceptors. Any water waste from the washing down of ready-mix lorries or from the production of concrete on site will be carried on in a designated area where water waste is unable to enter the groundwater and surface water environment without being treated first.	<i>Requirement 12 Construction Environmental Management Plan (CEMP)</i>
7	Disposal of hazardous materials such as paints or detergents will be carried out in bunded/contained store areas, and where required removed by a registered waste management company.	<i>Requirement 12 Construction Environmental Management Plan (CEMP)</i>
8	Construction management techniques set out in the ES and CEMP will ensure water quality is not affected.	<i>Requirement 12 Construction Environmental Management Plan (CEMP)</i>
9	A Sustainable Drainage System (SuDS) is proposed to reduce surface runoff rates and direct pluvial flow paths towards a positive drainage system. Approx 97,000 m <sup>3</sup> of attenuation is proposed across the main site, to be delivered in 6 proposed basins/ponds. The Bypass will be drained using gullies or dished channels at the carriageway edge before being conveyed to detention basins ahead of discharge into existing watercourses.	<i>Requirement 8 and 9 Detailed design approval Requirements 17, 18 and 19 Flood Risk and surface water drainage</i>
10	Once operational, runoff from highway and car parking areas will require treatment before discharge to the local watercourses – where appropriate, oil receptors and sediment receptors will be used.	<i>Requirements 16 and 17 Flood Risk and surface water drainage</i>

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11	To provide flood plan compensation areas in accordance with the Floor Risk Assessment.	<i>Requirement 19</i>
<b>Chapter 8 – Noise and Vibration – Mitigation</b>		
1	<p>Construction effects are to be managed by best practical means (BPM) – reasonable measures to minimise noise and vibration, following the principles of BS 5228 – 1: 2009+A1:2014 parts 1 and 2. Detail of the means will be secured by the CEMP and construction phase specific CEMPS (P-CEMPS), but may include:</p> <ul style="list-style-type: none"> <li>• Plant location as far away as reasonably practicable from noise sensitive receptors;</li> <li>• Fitting of suitable enclosures or screening around static plant where practicable;</li> <li>• Temporary hoardings or screening around the site or specific activities;</li> <li>• Management of construction hours.</li> </ul>	<p><i>Requirement 12 Construction Environmental Management Plan (CEMP)</i>  <i>Requirement 21 Construction Hours</i>  <i>Requirement 22 Construction Noise</i></p>
2	<p>Potential eligibility for noise insulation for:</p> <ul style="list-style-type: none"> <li>• Receptor R30 West Lodge Cottages (on the A508)</li> <li>• Receptor R57 The Lodge (on the A508)</li> </ul>	<i>Application of Noise Insulation Regulations</i>
3	Noise screening effects as a result of the location and design of the earthworks (bundling), landscaping strategy, and overall layout of the Main Site, and location of the Bypass.	<p><i>Requirements 8 and 9 Detailed Design approval</i>  <i>Requirement 13 Earthworks</i></p>
4	<p>Additional measures to further reduce adverse effects:</p> <ul style="list-style-type: none"> <li>• A mixture of 2m and 3m acoustic fencing along identified lengths of the Bypass.</li> </ul>	<p><i>Requirements 8 and 9 Detailed Design approval</i>  <i>Requirement 10 Provision of landscaping.</i></p>

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5	Construction Hours are defined and will be adhered to: [07:00 and 19:00] hours on weekdays and [07:00 and 16:00] hours on Saturdays .	<i>Requirement 21 Construction Hours</i>
<b>Air Quality – Mitigation Measures</b>		
1	Best practice and highly recommended mitigation measures from the IAQM will be applied to the construction phases of the Proposed Development. Actions and measures will include: <ul style="list-style-type: none"> <li>• Water suppression to reduce dust generation;</li> <li>• Covering of skips, chutes, and conveyors;</li> <li>• No burning of material on-site;</li> <li>• Haul roads, and vehicle wheels to be swept/washed regularly;</li> <li>• Location of stockpiles or plant to be located with regard to the location of important receptors, including neighbouring properties.</li> </ul>	<i>Requirement 12 Construction Environmental Management Plan (CEMP)</i>
2	The aggregates terminal will include best practice measures, such as water based suppression systems, and vehicle wheel washing, as part of the design of the terminal to prevent potential issues with dust.	<i>Requirements 8 and 9 Detailed design approval</i>
3	Framework Travel Plan and Public Transport Strategy measures to encourage modal shift away from single occupier car use for travel to work, and support implementation of Northampton Boroughs Low Emissions Strategy.	<i>Requirement 4 Sustainable transport</i>
4	Site specific low emissions strategy measures to help minimise impacts on air quality, including such proposals as encouraging and enabling electric vehicle use and through carbon/resource efficient buildings.	<i>Requirement 4 Sustainable transport Requirements 8 and 9 Detailed design approval Requirement 16 Building sustainability</i>

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5	Developer/Applicant commitment to early delivery of the Intermodal Rail Terminal – to be complete prior to first occupation - to maximise the potential for the site to take HGVs from the national road network, and to begin shifting freight to rail from the outset.	<i>Requirement 3 Components of development and phasing Requirements 8 and 9 Detailed design approval</i>
6	Developer/Applicant commitment to early construction and delivery of the Roade Bypass – to be complete within 2 years of first occupation – to ensure air quality and other potential adverse effects are mitigated, and local benefits of the Bypass are realised.	<i>Requirements 5 and 6 Design and phasing of highway works</i>
<b>Cultural Heritage – Design and Mitigation Measures</b>		
1	Targeted archaeological excavation will be undertaken prior to development, carried out under Written Schemes of Investigation which conform with recognised standards and guidance, and approved by Local Planning Authority’s archaeological advisor.	<i>Requirement 14 Archaeology</i>
2	Translocation of important hedgerows affected by the Proposed Development.	<i>Requirement 11 Landscape and Ecological Management Plan  Requirement 12 Construction Environmental Management Plan (CEMP)</i>
3	Implementation of the proposed bunds and landscaping around the Main Site which serve to reduce light spill and noise impacts on surrounding built heritage.	<i>Requirements 8 and 9 Detailed design approval Requirement 10 Provision of landscaping. Requirement 13 Earthworks</i>
<b>Chapter 11 – Lighting – Mitigation Measures</b>		
1	Lighting Strategy – prepared now in draft to provide the context and principles for lighting on the site, but to also be submitted in detail and agreed with the LPA to determine the position and number of lighting.	<i>Requirement 15 Lighting details</i>

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2	All external lighting will comply with the SNC Design Guide (of 2017), and comply with the recommendations for Environmental Zone 1 given in the <i>Guidance Notes for the Reduction of Obtrusive Light GN01:2001</i> (Institute of Lighting Professionals, 2011). This is applicable for areas such as National Parks and AONBs, and stricter than Environmental Zone E2 normally applied to rural areas (and the category in which the site is located).	<i>Requirement 15 Lighting details</i>
3	Construction lighting effects to be managed as part of the CEMP which will contain requirements to prevent light spill and glare as well as to minimise the usage of lighting, specify the types and locations of construction and security lighting, and define hours of operation.	<i>Requirement 12 Construction Environmental Management Plan (CEMP)</i>
4	Proposed earthworks bunding and planting form part of a wider strategy (along with lighting specific measures) to contain and limit any potential off-site lighting and other visual effects, including from construction.	<i>Requirement 10 Provision of landscaping.</i>  <i>Requirement 13 Earthworks</i>
5	Lighting will comply with industry standards for highway lighting in rural locations, ensuring adverse effects are prevented or minimised.	<i>Requirements 5 and 6 Design and phasing of highway works</i> <i>Requirement 15 Lighting details</i>
6	The Bypass lighting detail will include mitigation in the form of shields/baffles wherever this will further reduce the visibility (light presence effects) of that lighting	<i>Requirements 5 and 6 Design and phasing of highway works</i>
7	Lighting Strategy – provides details of specification or details relevant to delivering mitigation: <ul style="list-style-type: none"> <li>• All luminaires will be directional type, emitting below the horizontal, using LED sources wherever possible (more accurate and energy efficient);</li> <li>• Luminaires arranged to direct as much light as possible onto hard surfacing and task areas, and avoid spill light onto adjacent green areas;</li> <li>• All illumination levels will be set as low as practicable while complying with</li> </ul>	<i>Requirement 15 Lighting details</i>

	ENVIRONMENTAL STATEMENT: PROPOSED MITIGATION or BEST PRACTICE MEASURES	SCHEDULE 2 REQUIREMENT NUMBER OR S106 AGREEMENT REFERENCE
	<p>safety and security recommendations;</p> <ul style="list-style-type: none"> <li>• At the outer edges of the development lighting units will as far as practicable be positioned so that they are out of view of receptors (residential properties and rural settlements), using mounding, fencing and planting to assist;</li> <li>• Special measures in ecologically sensitive areas, with ecologist input, will inform the detailed position and any additional mitigation required for lighting close to ecological areas (retained woodland and watercourse), but light sources will otherwise be LED with no UV content, warm white (3000K) to prevent adverse effects on bats and insects;</li> <li>• Design to ensure negligible upwards emitted light, negligible light spill and no glare – this results in no possibility of any statutory nuisance effects.</li> </ul>	
8	<p>Specification of lighting used will be in accordance with various British Standards:</p> <ul style="list-style-type: none"> <li>• BS EN 12464 'Light and lighting – Lighting of work places – Part 2: Outdoor work places';</li> <li>• BS 5489-1 'Code of practice for the design of road lighting – Part 1: Lighting of roads and public am amenity areas';</li> </ul>	<i>Requirement 15 Lighting details</i>
<b>Chapter 12 – Transportation – Design of the Proposed Development, and Mitigation Strategy</b>		
1	<p>Delivery of the Highway Mitigation Strategy proposed as part of the Northampton Gateway proposals described in full in Chapter 12 of the ES, and incorporating a range of works including:</p> <ul style="list-style-type: none"> <li>• significant enlargement and reconfiguration of M1 Junction 15;</li> <li>• widening (including additional lanes north and south), signals and other alterations at M1 Junction 15A;</li> <li>• A Road Bypass west of Roade between the A508 Northampton Road to the north of Roade and the A508 Stratford Road to the south;</li> </ul>	<p><i>Requirements 5 and 6 Design and phasing of highway works.</i></p> <p><i>Requirement 10 Provision of landscaping.</i></p>

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	<ul style="list-style-type: none"> <li>• A new site access, and dualling between it and Junction 15;</li> <li>• Other improvements as part of an 'A508 route upgrade', including 7.5T weight restrictions in villages close to the Proposed Development;</li> <li>• Contributions to highway improvements</li> </ul>	
2	<p>The Main Site access will include a segregated left turn lane for traffic travelling northbound to M1 Junction 15. The access roundabout will include a height barrier (within the private estate road) to prevent HGVs turning right at the roundabout and requiring all HGVs departing the site to travel north on the A508 and access the wider highway network via M1 Junction 15. ANPR enforcement will also be implemented to deter U-turns at Junction 15.</p>	<p><i>Requirement 3 Components of development and phasing. Requirements 5 and 6 Design and phasing of highway works S106 Obligation</i></p>
3	<p>Provision of new and diverted walking and cycling routes to and within the Main Site, and in the Bypass Corridor. Details are shown on the ARoW plans - they include:</p> <ul style="list-style-type: none"> <li>• Provision for pedestrians and cyclists as part of the design of the highways mitigation works at Junctions 15 and 15A, and at the Roade Bypass;</li> <li>• new accesses and crossing points from the A508 to enable bus, walking and cycling access;</li> <li>• new provision of a footway/cycleway alongside the A508 to link the Main Site and Roade;</li> <li>• Diverted footpath routes KX17 and KX13 within the Main Site, and upgrades to enable cycle and walking use as part of a network of new routes around the periphery and within the site;</li> <li>• Diversions to multiple routes around the western edge of Roade, including an underpass to retain the east-west link of bridleway RZ1/KZ10;</li> <li>• New crossing refuges associated with several of the highways mitigation works (including in Grafton Regis).</li> </ul>	<p><i>Requirements 8 and 9 Detailed design approval  Article 12 DCO</i></p>

	ENVIRONMENTAL STATEMENT: PROPOSED MITIGATION or BEST PRACTICE MEASURES	SCHEDULE 2 REQUIREMENT NUMBER OR S106 AGREEMENT REFERENCE
4	Delivery of the Public Transport Strategy, including a new bus service to serve the Main Site, as well as improvements to existing bus services, with new bus infrastructure (e.g. stops/shelters) associated with the 33/33a X4 and X7 services. Creation of a Sustainable Transport Strategy Working Group to oversee delivery and to review and adapt the strategy as required.	<i>Requirement 4 Sustainable transport Requirements 8 and 9 Detailed design approval S106 Obligation</i>
5	Provision of a secure, dedicated HGV parking area within the Main Site of approximately 120 spaces, with driver welfare facilities.	<i>Requirements 8 and 9 Detailed design approval</i>
6	A Framework Travel Plan for the site will provide the context for occupier specific Travel Plans in due course.	<i>Requirement 4 Sustainable transport S106 Obligation</i>
7	Construction traffic will be required to confirm with Construction Traffic Routing details to be prepared as part of the CEMP.	<i>Requirement 12 Construction Environmental Management Plan (CEMP)</i>
<b>Chapter 13 – Agricultural Land Quality – Mitigation Measures</b>		
1	Soil Management will form part of the CEMP in accordance with the principles of the Construction Code of Practice for Sustainable of Soils on Construction Sites. Key measures are expected to include: <ul style="list-style-type: none"> <li>• Depth and method of topsoil stripping and stockpiling, including separation of topsoil resources of different potential.</li> <li>• Methods of stripping and stockpiling of higher quality re-useable subsoil (if appropriate).</li> <li>• Identification of landscaping topsoil requirements and assessment of suitability and availability of on-site resources.</li> <li>• Protection of subsoil from compaction damage and remedial measures (ripping/subsoiling) to remove damage.</li> </ul>	<i>Requirement 12 Construction Environmental Management Plan (CEMP) Requirement 13 Earthworks</i>
2	Land in the southern part of the Main Site (approximately 24ha) to be retained in	<i>Requirement 3 Components of development and phasing</i>



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	agricultural use, with some earthworks and landscaping (screening) around the periphery.	<i>Requirements 8 and 9 Detailed design approval Requirement 10 Provision of landscaping.</i>
<b>Chapter 14 – Waste – Mitigation and Enhancement measures</b>		
1	The assigned contractor(s) will implement a Site Waste Management Plan (SWMP) Key components include: <ul style="list-style-type: none"> <li>• Waste segregation implemented during building demolition works to minimise waste, and ensure suitable disposal (e.g. of any Asbestos Containing Materials);</li> <li>• Consider potential for the re-use of onsite structures such as walls, hardstanding and structures, including potential use of a crusher to allow for the reuse of recycled aggregates on-site.</li> </ul>	<i>Requirement 12 Construction Environmental Management Plan (CEMP)</i>
2	Where practicable the construction off-site of components for the construction of buildings would be undertaken i.e. prefabrication.	<i>Requirements 8 and 9 Detailed design Requirement 12 Construction Environmental Management Plan (CEMP)</i>
3	Construction staff would be trained in the appropriate use of materials on site through inductions, tool box talks and at regular intervals.	<i>Requirement 12 Construction Environmental Management Plan (CEMP)</i>
4	Provision of adequate storage facilities for the various types of wastes within the proposed commercial areas.	<i>Requirements 8 and 9 Detailed design approval Requirement 27 Waste Management</i>
<b>Chapter 15 – Cumulative Impacts</b>		
1	No mitigation measures are proposed within this chapter	