

N60 Balla to Claremorris Realignment at Heathlawn Scheme	<b>Method Statement: Pavement</b>	<i>Issue</i> <b>0</b>	<i>Date</i> <b>12/5/14</b>
		<i>Ident No.</i> <b>MS-N60 Rev 0</b>	

Version Issue.			
Issue	Date	Version Details	Revised by
0	12/5/14	First Issue	

Acceptance / Approvals.			
	Name	Signature	Date
Prepared by:	M Blackweir		12/5/14
Reviewed by	A McGinley		12/5/14
Accepted by:	D Meade		12/5/14

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**Title:** Pavement

**Location:** N60 Balla to Claremorris Road Realignment at Heathlawn Scheme

**Task at Hand**

This method statement outlines the procedure and methodology for surfacing works on N60 Balla to Claremorris Road Realignment at Heathlawn Scheme.

**Timing of Task**

To be advised subject to Contractor appointment.

**Supervision of Task (Typical)**

	<b>Name</b>	<b>Contact Number</b>
Contracts Manager:	TBC	
Site Agent:	TBC	
Foreman:	TBC	
Site Engineer:	TBC	
Suitably Qualified Ecologist:	TBC	

**Employees Involved (Typical)**

- Plant Operators
- Banksman
- Site Supervisor
- General operatives

**Equipment to be used (Typical)**

- Paver
- Haulage Wagons
- Compaction Equipment.
- Task Lighting
- Compressor & Breaker
- Disc Cutter.

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- Tack Coat Sprayer
- Chipping Spreader
- Planner
- Bitumen Tanks

### **Specific Training**

- All site personnel shall have FAS 'Safe Pass' certification.
- All Excavator & Dumper drivers shall have CSCS certification.
- CSCS certified representative in underground service location

### **Personal Protective Equipment**

Safety Gloves	Hearing Protection	Eye Protection	Respiratory Protection	Coveralls	Other
 Hand protection must be worn in this area		 Eye protection must be worn		 Protective clothing must be worn at all times	Hi Vis- Vest Hard Hats Boots
Yes	Where required	Yes	NO	No	Yes

### **Methodology**

- All personnel entering the site shall have received a site safety induction and have attended a job toolbox talk.
- Joint patterns will be agreed for each area of work. These joints shall be set out by measuring from pins at 10m intervals. Site engineers shall undertake the levelling for each layer on these joints.
- Placing of bituminous materials will be carried out using self-propelled pavers, equipped with automatic leveling controls. Extending screeds will be used on all materials and lane width.
- Material will be delivered to site in covered wagons ensuring the material temperature is maintained.

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- Material will be delivered to the workface and discharged into the paver and spread and compacted in layers in accordance with the specification clause 806.
- Compaction of all bituminous materials will be carried out using a combination of 3 wheel dead weight rollers and tandem vibrating rollers.
- Tack coat shall be sprayed in accordance with BS 4987-2:2003 Table 1-5 using a mechanical sprayer.
- Standard laying procedure is start paving from the lower side of the carriageway towards the high side. Joints in roadbase and basecourse layers shall at least 300mm offset from the preceding layer and not in a wheel track as specified in NRA Clause 901-23
- All pavement layers shall executed in full compliance with NRA Specifications for Roadworks
- As works progress the pavement layer will be constantly checked ensuring that the pavement layer depth is achieved and maintained.
- The pavement layers will be laid in accordance with the specification and any cold joints made during the progress of the works will be cut back creating a vertical face and treated in accordance with the specification
- The finished level will then be checked and passed off prior to the next layer being laid.

### **Laying Overlay or Tie In**

- Where there is a requirement to overlay or complete a tie in. The area will be cleaned and set out to identify the location of the tie in, at this point the pavement will be cut back or scarified as required.
- The face of the joint will then be treated and the surface sprayed with a tack coat and then the material laid as described above.

### **Materials**

All materials to be used will be tested in accordance with the specification.

Wet Mix Clause 806.

Road Base

Binder Course

Surface Course

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### **STORAGE**

- All materials requiring storage will be secured within the confines of the site compound.
- The storage of material on site will be controlled in accordance with the specification

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**Potential Ecological / Environmental Impacts, including impacts on Balla Turlough cSAC and/ or other European sites**

**NIS / EAR: Relevant Extracts:**

**Potential Impacts (in the absence of below Mitigation):**

- Potential Surface & groundwater contamination during construction.
- Potential decrease in groundwater supply to Turlough during construction.
- Potential Increase in run-off volumes to Turlough during construction.
- Pollution from Surface Water run-off during Construction.

**Mitigation:**

- Construction works carried out in the vicinity of the Turloughs will be monitored by a suitably qualified ecologist;
- To reduce potential increases in flows into the drainage system and downstream Turloughs during construction, the period of exposure of bare areas and uncontrolled runoff from new hardstanding areas will be limited. Early covering/seeding/planting of exposed surfaces will be undertaken;
- Material stockpiles will be kept to a minimum size, covered and located at least 10m from the drainage system and 100m from Turloughs;
- To prevent contaminated or silt-laden runoff from entering the Turloughs, a range of temporary measures will be implemented, including silt fences, cut-off ditches, silt traps, straw bales, entrapment matting and drainage to vegetated areas;
- Runoff will be controlled and, if required, directed to settlement ponds or sumps. Any temporary attenuation and treatment facilities will be designed and implemented in accordance with CIRIA C697 (2007). All temporary treatment systems will be regularly inspected and maintained;
- The extent of construction activities will be controlled to limit vegetation removal and the exposure and/or compaction of soils. Land surrounding the immediate construction area will be fenced off, or otherwise demarcated, to prevent inadvertent intrusion from construction plant;
- Construction works will be avoided during prolonged periods of very heavy rainfall adjacent to the Balla Turlough cSAC and Un-named Turlough;

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- No construction plant or construction vehicles to enter the Balla Turlough cSAC boundary other than where this boundary has already been generally encroached by the existing road;
- Refueling of machinery shall be carried out off-site, or when on-site not within 100m of Turlough habitat;
- All fuels, oils, greases, hydraulic fluids and chemical storage areas will be stored in bunded compounds/areas on impermeable bases at least 10m from the proposed drainage system and 100m from the cSAC and Un-named Turlough;
- No pouring of concrete within 50m of the cSAC or the Un-named Turlough. Note the headwall for the outfall to the Un-named Turlough shall be a pre-cast structure.
- Concrete mixing/pouring shall only be carried out in dry weather conditions.
- No run-off from machine servicing/concrete mixing shall be allowed to enter watercourses. These shall be at least 10m from the proposed drainage system and 100m from the cSAC/Un-named Turlough.
- No machinery to enter Turlough habitats, no temporary access or haul routes are located in Turlough habitats and no temporary storage areas, plant or other obstacles are located within Turlough habitats;
- Monitoring of turbidity (suspended solids) levels in Balla Turlough SAC and the Un-named Turlough will be undertaken on a monthly basis for a minimum of 6 months prior to construction and will include monitoring during the winter season when Turlough water levels are most likely to be present. Monitoring will also be undertaken on a weekly basis during construction for turbidity (suspended solids). In the event of suspended solids concentrations that are higher than the 95th %ile of those monitored during the pre-construction monitoring period, a review of the Sediment and Erosion Control measures and plan will be implemented and additional sediment control measures put in place as required. Daily visual inspections of Balla Turlough SAC and the Un-named Turlough will also be undertaken during the construction phase to confirm the absence of sediment from construction works;
- The N60 Balla to Claremorris Erosion and Sediment Control Plan shall be implemented to prevent sediment or pollutants from reaching the Balla or Un-named Turlough.
- All mitigation contained within the N60 Environmental Assessment Report and NATURA Impact Statement shall be implemented in full.

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Relaying of Information; to each operative:

“I wish to confirm that the information in this method statement has been communicated to me and I have understood it. I shall bring to the attention of the supervisor any issues, which may affect Safety whilst carrying out the task”.

Information provided by Supervisor;

NAME (BLOCK)	Signature	DATE

In the event of the need for a deviation from the Method Statement, no further work will be done until agreement has been reached and recorded in writing between the client & the contractor on the method of work to be followed in the new circumstances.

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**APPENDIX A**

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Whilst this proposed improvement has been designed sufficiently to be shown as a practical scheme, the design will be further refined during the detailed design process which may result in changes to parts of the alignment and this may affect other information on this drawing.



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Key:

	Balla Turlough SAC		Unnamed Turlough
	Balla Turlough Habitat Extents		Proposed Site Compound Location (Will include Car Parking and Material Storage areas) (Access from within existing CPO)
	Permanent Fence Line		Site Access (along existing N60)

Rev	By	Date	Description
0	MMK	MAY 14	ABP Request

Project:	N60 BALLA TO CLAREMORRIS ROAD PROJECT AT HEATHLAWN		
Component:	Statutory Response: An Bord Pleanála		
Title:	Construction Method Statement Compound, Parking and Material Storage Space		
Designed: KC	File Name:	I:\08\1017\Draw\BATT\1\Infrastructure\Highways\2013\N60\N60_C14_24_14_08	
Drawn: MMK	Original scale:	1:5000 @ A1	
Checked: AMG	Date:	Jan 2014	

Drawing No:  
32103901/Statutory  
Response/ABP/  
Figure 2

N60 Balla to Claremorris Road Realignment at Heathlawn Scheme	Method Statement: Pavement	Issue <b>0</b>	Date <b>12/5/14</b>
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## APPENDIX B

### Risk Assessments Hazard/Risk Assessment Proforma

<b>Project:</b>	N60 Balla to Claremorris Road Realignment at Heathlawn Scheme	<b>Risk Assessment No:</b>	N60/RA04 Rev 0	<b>Review</b>	<b>Dates:</b>	May 2014
<b>Operation/Task :</b>	Pavement	<b>Method Statement Title:</b>	Initial Site Clearance			
<b>Location/Area:</b>	All areas	<b>Method Statement No:</b>	MS-N60 06 Rev 0			

#### CATEGORY OF PERSONS AT RISK AND MEANS OF BRIEFING

CATEGORY OF PERSONS		Means of Briefing		
		RAMS	SCS	Other
<b>Occupations involved in Activity (Specify):</b>	Plant operators, general operatives ,	Y		
<b>Others Persons at Work (Specify):</b>	N/A			
<b>Public or Other Parties (Specify):</b>	NA			

Description of the task/operation
1. All aspects of excavations . 2. Lifting operations

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**KEY: S = Severity Rating**

**L = Likelihood of Occurrence**

- 1. Negligible
- 2. Minor
- 3. Notifiable/Major/Fatal

- 1. Improbable
- 2. Reasonably likely
- 3. Certain or near certain

**RR = Risk Rating**

		1	2	3
Severity	3	3	6	9
	2	1	4	6
	1	1	2	3
		1	2	3
		<b>Likelihood</b>		

- 9** Unacceptable risk, plan out or add further controls
- 4-6** Acceptable only if no other method viable and with high level controls in place
- 2-3** Acceptable if suitable controls
- 1** Acceptable, no further action required

Risk Assessment Prepared by \_\_\_\_\_  
(Name):

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Risk Assessment Reviewed by \_\_\_\_\_  
(Name):

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

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Item	Activity	Hazards/Risks Identified	Pre-Control Risk Rating			Control Measures	Residual Risk Rating			Responsibility	Monitoring Responsibility
			S	L	RR		S	L	RR		
01	<b>Existing Services</b>	Work near significant existing services ie - ESB services - Watermains - Telecommunications	2	2	4	Detailed Method Statements and Risk Assessments to be carried out for all activities which have potential to impact on existing services - Request temporary outages on services - Worker Briefings to be carried out - Adhere to Codes of Practice for avoiding dangers from under ground services - Trial holing in advance - Permit to Dig system to be implemented - Use of Catscan equipment - Use of trained plant operators - Use of Banksman - Request temporary outages on affected utilities -	1	2	2	Full site Team	BBI

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Item	Activity	Hazards/Risks Identified	Pre-Control Risk Rating			Control Measures	Residual Risk Rating			Responsibility	Monitoring Responsibility
			S	L	RR		S	L	RR		
02	<b>Heavy Plant and Equipment</b>	Working adjacent to Heavy Plant and machinery including excavation plant and lifting appliances <b>Hazards</b> Noise. Operated by untrained individual Incorrect use. Speeding. Poor maintenance. Unsupervised reversing. Overloading <b>Risks</b> Struck by site transport Falls from vehicles. Splashed by fuel during refuelling. Tipping or overturning of vehicles. Contact with moving parts of machinery. Struck by mater dropped while in lift.	3	2	6	<ul style="list-style-type: none"> <li>- Detailed Method Statements and Risk Assessments to be carried out for all activities to address the movement use of heavy equipment.</li> <li>- Worker Briefings to be carried out</li> <li>- Plant to be operated by Competent Personnel</li> <li>- Plant to be in good order and inspected prior to commencement of any works on site</li> <li>- Auxiliary devices and visual aids on plant as highlighted in Schedule 6 of 2006 Construction Regulations.</li> <li>- Carry out plant checks and record on plant checklists</li> <li>- Vehicle Banksmen to be utilised where required</li> <li>- Segregate traffic from public and workforce where possible</li> <li>- Implement work exclusion zones where appropriate</li> <li>- Implement Traffic Management Plans</li> <li>- Ensure all personnel were appropriate PPE and high visibility clothing</li> </ul>	3	1	3	Full site Team	Contr

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Item	Activity	Hazards/Risks Identified	Pre-Control Risk Rating			Control Measures	Residual Risk Rating			Responsibility	Monitoring Responsibility
			S	L	RR		S	L	RR		
03	<b>Biological Substances</b>	<b>Works which put person at work at risk from Biological substances</b> - Leptospirosis /Weils Disease - Contact with contaminated ground or objects or materials - Working on existing streams and drains, particularly foul drains.	3	2	4	- Detailed Method Statements and Risk Assessments to be carried out for all activities where biological substances are envisaged including contaminated ground and dealing with asbestos gaskets - Areas of potential contaminated ground to be tested and areas segregated - COSHH Assessments to be carried out and briefed to workers - MSDS Sheets to be available for construction chemicals in use - Ensure adequate assessment of PPE requirements for surfacing operations - All operatives engaged in sewer tie in works to wear appropriate PPE which will include gloves and disposable overalls. - All operatives to be briefed and trained - Adequate washing facilities to provided - Ensure adequate ventilation is provided provide to avoid Asphyxiation - Adequate awareness of and protection against Weils disease	3	1	2	Full site Team	Contr

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Item	Activity	Hazards/Risks Identified	Pre-Control Risk Rating			Control Measures	Residual Risk Rating			Responsibility	Monitoring Responsibility
			S	L	RR		S	L	RR		
04	<b>Manual Handling</b>	Fractures, Strains, Sprains  Cuts, Lacerations, Abrasions  Injury through aggravation of previous/existing medical condition	3	2	6	-Use of mechanical assistance wherever possible, e.g. forklift, plant, lifting appliance etc. - Reduce loads by making them smaller or lighter. - Ensure the working environment is suitable i.e. - -- - Access ways are unimpeded and properly lighted. - Working platforms should be non-slip and kept clean Ensure that the individual is lifting correctly, maintains good posture, and lifts with knees bent and back kept straight. All loads should be assessed individually for size and weight, but generally loads greater than 25kg should be handled by more than one person or mechanical means employed. Operatives must wear appropriate gloves and other clothing to reduce the risk of injury. Ensure that all previously experienced back complaints are brought to the attention of management, in order that allowances may be made in ascertaining the safest method of manual handling.	3	1	2	Full Site Team	Contr