LYNAS ENGINEERS
We provide a modern, personal approach to engineering design.

Engineering excellence is at the heart of our service, delivered with the latest technology and design thinking.
Rob Lynas  BEng (Hons) CEng MCIHT
Chartered Engineer with 20 years experience of Civil Engineering including highway design; highway maintenance; traffic engineering and project management.

Wayne Farrell  BEng (Hons)
Senior Engineer specialising in highway and drainage design

Matt Taylor  EngTech TMICE
Senior Engineering Technician specialising in highway design and 3D modelling

Carl Kemp  BEng(Hons)
Engineer specialising in highway design and 3D modelling
Our Services

Infrastructure Design
Feasibility Studies
Scheme Development
Detailed Design
Technical Approvals
Advice Services

Highway and Civil Engineering Design
Feasibility Studies
Scheme Development
Detailed Design
Pavement Design
Traffic Signs
Traffic Management
Technical Approvals
Specifications
Advice Services
Our Services

Drainage Design
Feasibility Studies
Scheme Development
Flood Risk Assessment
Drainage Risk Assessment
Detailed Design
Technical Approvals
Advice Services

Project Management
Tender and Procurement
Contract Management
Site Supervision
Planning Approvals

3D CAD and BIM
3D Design and Modelling
Scheme Visualisation
Clash Detection
Drawing Production

LYNAS ENGINEERS

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Our Experience

Highways and Transport Infrastructure

A19 Holystone Roundabout

Employer: Atkins (Rob Lynas, Matt Taylor, Carl Kemp)
Client: North Tyneside Council
Management and delivery of the detailed design and tender documentation for a traffic and pedestrian improvement scheme on an existing grade separated junction. The scheme included the installation of traffic signals, carriageway widening and provision of new pedestrian facilities. The scheme was designed to solve two problems, congestion and pedestrian safety, and required agreement from the Highways Agency, who were part funding the scheme. The contract was administered under NEC2 Option D and during the construction phase of the scheme Rob Lynas was the Project Manager under the contract.

A47 Honingham Roundabout

Employer: Atkins (Rob Lynas, Matt Taylor, Carl Kemp)
Client: Highways Agency Area 6
Responsible for a project feasibility report for improvement measures to an existing T-junction on the A47 trunk road in Norfolk. The scheme involved the feasibility design of short and medium term measures to increase the safety of an existing junction. The proposed design involved the upgrade of the junction to a roundabout to be constructed online within a constrained site whilst maintaining traffic flow. Completion of the detailed design; liaising with stakeholders; and preparing contract documentation.
The projects described below have all been undertaken by one or more of our team whilst employed in previous roles.

### Highways and Transport Infrastructure

#### A66 South Tees Eco-Park

**Employer:** Atkins (Rob Lynas, Matt Taylor, Carl Kemp)

**Client:** Redcar & Cleveland Council

Management and delivery of the detailed design and tender documentation for a highway junction improvement scheme, converting existing roundabouts to signalised crossroads. The scheme included extensive carriageway widening and reconstruction; installation of traffic signals, and provision of new pedestrian facilities. The contract was administered under NEC2 Option B and during the construction phase of the scheme Rob Lynas was the Project Manager under the contract.

#### Monks Cross Park and Ride

**Employer:** City of York Council (Rob Lynas)

**Client:** City of York Council

Feasibility and detailed design of the £3m scheme including preparation of reports into drainage and surfacing options; preparation of cost estimates; design and supervision of site investigation work; the detailed design of the works; the planning application and tendering processes. Also responsible for liaising with residents, external design consultants, environmental consultants and the developer of a neighbouring scheme. Full time site supervision of the construction works including monitoring and reporting on the quality and progress of the contractor’s work; measuring the works for valuation; providing additional information to the contractor and also designing additional works not included in the original contract.

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**Contact:** contact@lynasengineers.com

**Website:** www.lynasengineers.com
Our Experience

Highways and Transport Infrastructure

**Maltings Retail Park, Newark On Trent**
Employer: Alan Wood and Partners (Rob Lynas)
Client: BWB Consulting
Design of a new ghost island junction to access a proposed retail park in Newark. Preparation of S278 package for submission to the highway authority.

**Harpenden School – Highway Works**
Employer: Alan Wood and Partners (Rob Lynas, Matt Taylor)
Client: Gardiner and Theobald
Review of feasibility report prepared by others in support of planning submission for a new secondary school; report on proposed improvements and recommendations for further design work. Preparation of options for highway improvements along the Lower Luton Road corridor, which will be affected by additional traffic generated by the new school.

**A1 Berwick Bypass – Phases 1 and 2**
Employer: AOne (Rob Lynas)
Client: Highways Agency – Area 14
Detailed design and preparation of tender documentation for the £1.3m A1 Berwick Bypass – Phase 1 scheme which included the use of the crack and seat technique to prepare the underlying CBM base prior to resurfacing of the carriageway. Phase 1 involved full closure of a section of the A1 with a diversion route whilst maintaining an existing staggered junction which crossed the A1. There was also works at each end to existing roundabouts requiring maintenance of traffic routes. Night works under traffic signals requiring traffic management on an existing roundabout were also undertaken. Phase 2 works included complex traffic management constraints and also included bridge waterproofing and drainage works.
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# Our Experience

## Drainage Engineering

### A61 Birdwell Junction
Employer: Alan Wood and Partners (Rob Lynas, Wayne Farrell)
Client: ESH / Lumdsden & Carroll
Review of drainage design and construction of drainage model to calculate the capacity of existing balancing pond and required capacity for new storage features including value engineering for the contractors whilst on site, specification of proposed storage system.

### A14 Cambridge to Huntingdon Improvements
Employer: CH2M (Wayne Farrell)
Client: Highways England
Detailed design of varying methods of highway drainage for the £1.5billion A14 Cambridge to Hutingdon bypass/improvement works. In-situ slot drainage with adjacent carrier pipes / swales formed the basis of the drainage strategy. Several attenuation ponds and underground storage tanks designed dealing with high ground water and poor ground conditions.

### Lisburn Terrace / Alexandra Park, Sunderland
Employer: Halcrow (Wayne Farrell)
Client: St Modwen / Persimmon Homes
Surface water and foul water drainage designs produced for a proposed 212 dwelling housing estate. Plot drainage, lateral drainage and full clash detection provided for both designs. The site was brownfield and had a dilapidated Victorian culvert running through the centre. Careful consideration was required in order to avoid ground contaminants (specifically asbestos) entering the piped networks. Also needed to coordinate the inspection and repair of the Victorian culvert. Section 104, 106 and 185 all provided under close liaison with the Local Water Authority.

### Morpeth Flood Alleviation Scheme
Employer: Halcrow (Wayne Farrell)
Client: Environment Agency
Working in tandem with river modelling data to develop surface water storage tanks, adjacent to the River Wansbeck, in order to retain storm water during high river flows. The tanks were retrospectively included into the existing drainage networks and were designed to hold back flows, through the means of non-return valves (e.g. flap valve, duckbills, etc.), and eliminate any localised flooding.
Our Experience

Energy and Industrial Sites

Multiple Gas Generation Sites (Encora Energy)

Employer: Alan Wood and Partners (Rob Lynas, Matt Taylor)

Client: Rydberg Development Company

The development of the layout design for a number of sites on which the client planned to install self-contained natural gas powered engines to provide up to 20MW of electrical power into the National Grid. The work included the optimisation of the site to ensure the most efficient layout in order to prepare a package of drawings for planning submission.

Hook Moor Wind Farm

Employer: Alan Wood and Partners (Matt Taylor)

Client: Hall Construction

Detailed design of the civils infrastructure for a new windfarm development, undertaking carriageway alignments and profiles based on design criteria to accommodate abnormal loads, carriageway construction details, drainage and detailed cut and fill quantities for pricing. 3D geometric data was produced and sent to site enabling the contractor to set out the works directly from the extracted data. The 3D model was used to produce a 3D image of the site overlaid on an aerial photograph to allow the client to visualise the scheme.

Transport & Vehicle Access Project (SSEP)

Employer: Atkins (Rob Lynas, Matt Taylor, Carl Kemp)

Client: Sellafield Ltd.

Provision of a new transport strategy for access on to site for the workforce as part of a major security driven project. The project included extensive data collection, traffic modelling, development of transport masterplans, car park optioneering, network improvement options, traffic impact analysis and the development of improved public transport services to help improve non-car travel mode share to and from the site. Works within the large site included significant changes to the road and footway network as part of this project including the design of a 200m long link road, changes to junctions, access tracks and car park amendments. The transport team also provided extensive specialist technical support to colleagues and the client for the wider multi-disciplinary project.
The projects described below have all been undertaken by one or more of our team whilst employed in previous roles.

Our Experience

Residential Development

**Holme Mills Housing Development**

Employer: Alan Wood and Partners (Matt Taylor)

Client: Keepmoat

Detailed design of the civils infrastructure for a 180 house development, located on the side of a hill in Leeds (gradients between 1:20 and 1:10). Liaison with the architect to amend the design to suit the landscape, producing 3D models for both architect and client to understand the severity of the site in some areas. Production of detailed 3D models and drawings showing highways, retaining walls, balancing pond and quantities for pricing. Production of isopach surfaces showing multiple sets of information i.e cut and fill areas, cut and fill depths, isopach surface showing different geological strata and the cut or fill in each.

**Allerton Lane Housing Development**

Employer: Alan Wood and Partners (Rob Lynas, Carl Kemp)

Client: Keepmoat Homes

A 300 plot housing development including the detail design of the road and drainage network to adoptable standard. The site was located on the side of a steep slope which caused numerous issues and led to the requirement for significant retaining works; value engineering was undertaken which led to a major change in the design philosophy and a re-design which was undertaken in a short timescale. The road network was designed in 3D using Civil3D software.

**Wawne Road Housing Development**

Employer: Alan Wood and Partners (Rob Lynas, Matt Taylor, Carl Kemp)

Client: KSHP (Keepmoat Homes, Strata Homes and Home Group JV)

An 800 plot housing development including the detail design of the road and drainage network to adoptable standard. The scheme was designed in 3D using Civil3D software.

The deliverables included external works drawings, section 38 submission and construction information.
Infrastructure Design
Highway and Civil Engineering Design
Drainage Design
Project Management
3D CAD and BIM Services

For further information please contact Rob Lynas
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