

# Rashid Akbar

(M.Sc Construction Management, B.Sc Civil Engineer)

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## MEMBERSHIP

Institution of Civil Engineers  
Pakistan Engineering Council

Membership No. 62663261  
Registration No. Civil/21536

## OBJECTIVE

To pursue a career, which provides growth opportunities parallel with a friendly, competitive, technologically advanced and dynamic working environment.

## EDUCATION

2003 – 2004	University of Reading Master of Science in Construction Management	Reading, UK
1996 – 2000	N.W.F.P University of Engineering & Technology Bachelor of Science in Civil Engineering	Peshawar, Pakistan
1993 – 1995	Islamabad Model College for Boys F-8/4 Higher Secondary School Certificate	Islamabad, Pakistan

## KEY SKILLS/ACHIEVEMENTS

- Technical experience of road geometry design, junction improvement schemes, network improvements and major maintenance, pavement design, safety barrier design, with familiarity of DMRB, MCDHW, TSRGD and Traffic Signs Manual highway design standards.
- Experience of working in project management in managing multi-disciplinary design teams for the design of major motorway widening project.
- Project Management experience including design co-ordination, programming, scope management and resource management.
- Experience of working in teams of engineers and technical specialists in the delivery of highway projects to programme achieving client requirements.
- Technical review of highway design submissions, project plan review and construction programme review. Preparation and administration of highway contract and specification document. Preparation of quality plan.
- Computer literate with working knowledge of main Microsoft software packages, including MS Project, MX, AutoCAD and Auto Track.
- Site supervision.

## WORK EXPERIENCE

### WSP - UK

April 2008 to Date

#### Engineer

#### Kettering Town Centre Junction Improvement, Northamptonshire County Council:

The project involves replacement of an existing four arm signalised junction with a new double roundabout junction configuration. Lead designer reviewed preliminary design and developed detail design to achieve a cost saving solution; including double roundabout alignment design, pavement design, signs/road markings, site clearance, kerbs/footways, pedestrian crossings, prepared relevant scheme drawings, departures from standards, safety audit response, bill of quantities, specification document and H&S document. Provided support to the Project Manager ensuring the discrete work packages are delivered to the programme and resources are allocated and fully utilised; including day-to-day management and supervision of a team of graduate/assistant engineers. Design co-ordination which required liaison with various teams. Reviewing and updating design programme. Moreover, ensuring the design complies with Client's desired objectives and providing technical solution to accommodate potential issues on H&S and public interests.

**M25 DBFO Motorway widening, Highways Agency:**

The M25 DBFO project is widening of 26km of the M25 between J27 and J30. Assistant Project Manager, prepared progress reports and Earned Value Analysis reports fortnightly for each of the design disciplines, including reviewing and collating team leader updates to evaluate the overall progress and cost of the project. Furthermore, liaison with the Joint Venture Team Leaders, undertaking design programming, design change management, construction support and issuing design package work instructions to Team Leaders. Moreover, resource management through weekly forecast monitoring and fortnightly disciplines look ahead tracker for projection of anticipated final cost.

**A43 Brackley Bypass Resurfacing, Highways Agency - Area 8:**

The scheme is to resurface the existing 3km long dual 2 lane carriageway. Design engineer, carried out detailed pavement design, review of utilities services plans and review of traffic diversion routes. Prepared relevant scheme drawings; including carriageway resurfacing, traffic management diversion route, utilities and road markings drawings. Provided support to Project Manager, ensuring key dates and milestones together with Client requirements and objectives are met. Organised and participated in design progress meeting. Also prepared scheme specification document, health & safety document, design risk review register, asbestos control check list and site waste management plan.

**M1 Junction 33 - 34 Surface Renewal, Highways Agency - Area 12:**

The scheme is to resurface the existing 3.9 km long dual 3 lane motorway and provision of central reserve concrete step barrier. Design team member; fostering and co-ordinating teamwork. Reviewed preliminary design and developed detail design; including review of utilities services plans, utilities drawings, site investigation, site clearance drawings, pavement drawings, road markings drawings, emergency cross over drawings, central reserve concrete step barrier drawings, verge safety barrier drawings, schedules, specification document and bill of quantities.

**Shepherds House East Railway Bridge, Wokingham Borough Council:**

Designer, carried out the bridge parapet RRRAP assessment, site investigation for data collection and prepared RRRAP design brief. Also, reviewed existing traffic signs, prepared proposed new traffic sign drawings, road marking drawings and specification document.

**Wokingham Safety Barrier Scheme Priority Ranking, Wokingham Borough Council:**

Designer, responsible for the review and assessment of A329M, A3290, A33, and A4 safety barrier condition survey data, accident data and traffic data. Carried out site investigation for data collection, completed a ranking assessment and formulated a priority ranking list for the provision of safety barrier priority on the WBC road network and prepared design brief.

**Wokingham Bridge Inspection, Wokingham Borough Council:**

Principal and general inspections of Wokingham and Network Rail structures, including structural assessments for a number of bridges, footbridges and culverts, completing bridge assessment form and assessment report.

**M1 Hartwell Pavement Value Management, Highways Agency - Area 8:**

Carried out detailed review of TRL pavement investigation report and HAPMS survey data. Prepared relevant scheme drawings including Traffic Management plans, RRRAP assessment, Project Management meetings, Risk Register and Value Management Report.

**Tottenham Hale Traffic Management Phasing, Transport for London:**

Design Team member responsible for site investigation for data collection and familiarization with the existing traffic movements on the gyratory, also detailed review of carriageway works and buildability issues. I prepared alternative Traffic Management phasing drawings in accordance with the TSM Chapter 8.

**A34 Wolvercote Viaduct Replacement Project, Highways Agency:**

Member of the Project design and supervision team I carried out technical review of highway design submissions from ECI Contractor during the detailed design phase and completed the comments and observations form for each design element. Furthermore, reviewed the Contractor's monthly programme submissions and prepared the project Third task order Quality Plan.

**Highway Infrastructure Engineer****Heart of Slough, English Partnerships:**

The Heart of Slough is redevelopment of centre of Slough at the junction of A4 Wellington St./A332 William St. Design Team member carried out detailed design including design of segregated pedestrian/cycle routes, tactile paving surfaces at controlled crossings and design of pedestrian staggered crossing layouts. Also, junction intervisibility zones, sightlines to traffic signals, signs and lanes. Traffic signs design and signs posts foundation design. Site investigation, road markings, pavement design, review of utilities services plan, liaison with utilities companies and review of existing parking/waiting restriction on Slough High Street.

**LUAS Line A1, Railway Procurement Agency – Ireland:**

The 4.25km long LUAS line A1 Dublin Tram Project is extension of the existing LUAS line. Provided support to the Project Manager responsible for document management, keeping up-to-date record of incoming/outgoing documents & drawings, and managing the technical queries register. Reviewed preliminary design and developed detail design; including review of complex network of existing/proposed utilities along the LUAS line, prepared utilities drawings, utilities schedule and Technical Notes on utilities. Moreover, developed detail design for five Tram Stop; including surface pavings, tram stop furniture, pedestrian crossings etc. ensuring the design complies with the Client's desired objectives and evolving requirements are met. Also, prepared cross-sections at pinch points for the purpose of space proofing and prepared duct drawings that include HV/LV ducts, AVLS loops/ducts and filter drains.

**West London Tram, Transport for London:**

The West London Tram (WLT) Project involved provision of a 20km tramway from Shepherds Bush to Uxbridge. Design team member responsible for WLT stage 1 safety audit response, design brief derogation, prepared cycle route in and around Shepherds Bush area, site investigations; for loss of access into properties, loading & access issues, investigation of diversion route and OLE's location.

**Brent Cross/Cricklewood Regeneration, London Borough of Barnet:**

Design Team member responsible for the detailed review and design of pedestrian routes, cycle routes, design of tactile paving surfaces at crossings and pedestrian/cycle routes, forward visibility and junction visibility splays, design of existing/proposed bus routes, car park layout at shopping centre along A406 and review of access to Brent field gardens properties.

**Tamesis Point Development, Tilfen Land Thamesmead:**

Design of 1.2km Haul Road, that includes Horizontal and Vertical alignment design and utility ducting drawings.

**Assistant Engineer****Installation of Three Weather Stations, Highways Agency - Area 4:**

The scheme is installation of three weather stations one at each site i.e. at 'A21 John's Cross', 'A23 Pycombe' and 'M20 junction 8'. Design Engineer responsible for preparation of scheme drawings including base foundation drawing, detailed location plan, utilities drawings, joint pit & box cover drawing and traffic management layouts. Prepared Pre-Construction H&S document and specification document. Liaison with BT, EDF, weather station supplier Vaisala and arranging meetings with members of Construction, Commercial, Communication and Electrical Team.

**A27 Tangmere Junction Improvement, Highways Agency - Area 4:**

Design team member carried out detailed design work and proposed safe access to local residents on to/from the A27 dual carriageway. Prepared pavement drawings, kerb & footway drawings, signs & road marking drawings, site clearance, earthworks drawings, cross-section and long section drawings using MX. Liaison with Local residents, Police, utilities companies and West Sussex County Council. Arranging meetings with the members of Construction, Commercial, Communication and Traffic Safety Teams.

#### **A21 Marker Post Installation, Highways Agency - Area 4:**

Design Engineer, prepared scheme drawings, works information document, H&S documents etc. Carried out site investigation for data collection. Organised and participated in meetings at various design stages with the members of Construction, Commercial and Communication Team.

#### **Resurfacing Schemes, Highways Agency - Area 4:**

Highway Design Team member worked on a number of Area 4 resurfacing schemes including 'A21 Vinehall Street', 'A21 Fair Lane' and 'A21 John's Cross Road', to improve the current level of skid resistance and texture depth, 'A26 New Haven' resurfacing scheme to resurface rutted section of single carriageway and 'A20 Limekiln roundabout' resurfacing scheme. My responsibilities in these resurfacing schemes include preparing relevant scheme drawings including location plan, pavement design/drawings, traffic management plans, diversion routes, pre-construction H&S document and specification document. Furthermore, organising and participating in traffic management meeting, progress meeting and design handover meeting.

#### **Maintenance of Area 4 Pavement, Highways Agency - Area 4**

Area 4 Pavement Team member responsible for highway pavement analysis reviewing the Area 4 construction data, TRACS data and traffic data. SCRIM Data review extracted from Highways Agency Pavement Management System (HAPMS). Exercising the value management to develop whole life cost model for single and multi-section schemes through SWEEP.S.

#### **Mouchel - UK**

**July 2003 – To October 2003**

##### **Pavement Route Engineer**

M25 Pavement Management Team member, responsible for analysis of various survey data from HAPMS to prepare maintenance scheme proposals and identifying the defected sites on the M25 network from the routine survey reports. Also, organizing routine carriageway Visual Condition Surveys, GIS data collection and analysing the site data.

#### **Attock Refinery Limited (ARL) Rawalpindi - Pakistan**

**March 2002 – To May 2003**

##### **Construction of R.C.C C-Sump of 1.155 Million Gallons, Attock oil Refinery - Pakistan**

Assistant Resident Engineer; the construction work includes; excavation and removal of bed rock, construction of inflow drains & temporary water storage tank, R.C.C Lining of C-Sump floor & walls and plate form fabrication for controlling gate valves.

##### **Construction of Three Oil Storage Tanks foundation, Attock oil Refinery - Pakistan**

The construction work includes; construction of R.C.C ring walls, sand filling and compaction, laying thin wearing bitumen course and provision of drainage system around ring wall etc.

##### **Construction of Fire Station Building, Attock oil Refinery - Pakistan**

The construction work of two floor fire station building includes foundations, brick walls, R.C.C. slabs, marble flooring etc.

Site Engineer on the aforementioned projects responsible for site supervision, site safety, site surveying, ensuring the quality of workmanship and completion of works as per programme, works information documents and drawings. Furthermore, site inspections, concrete tests, checking of formwork and reinforcement to ensure site is ready for concreting.

##### **Civil Engineering Management and Maintenance department, Attock Refinery Limited - Pakistan**

Assistant Project Engineer, assisted the Project Manager in Project Management, Document Management and liaison with various departments within the Oil Refinery. Managing and overseeing routine maintenance works of management staff bungalows and worker residential quarters. Issuing of work orders to contractors, cost estimation, checking of project bills and liaison with contractors, sub-contractors, Mechanical, Chemical and Electrical departments.

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#### **PUBLICATION:**

"Gap between Risk Management Theory and Practice: Designers Perspective". M.Sc Construction Management Dissertation, (Sep-2004), University of Reading UK.