

Curriculum Vitae -Sept 2020

Naresh Madhavan *MCiHT MSoRSA EU RSA Cert.Comp*

Profession: Civil Engineer
 Date of birth: 22nd March 1972
 Nationality: British
 Telephone: 07715 109788 (UK)

Specialisations: Road Safety Engineering / Road Safety Audit / Project Management/
 Highways and Traffic Engineer/ Development Control

Education/professional achievements: 1993 - HND Civil Eng studies certified for IEng
 1994 -Established Madhavan Design Ltd / Highway Associates
 2010 – 10 days CPD - RoSPA
 DfT GG119 accredited Safety Audit Team Leader
 CSCS Professional Qualified Person card holder
 MCiHT-Member of the Chartered Institution of Highways & Transportation
 2011 MSoRSA - Member of the Society of Road Safety Auditors
 2013- CoC – European Certificate of Competency in Road Safety Audit

SoRSA accredited CPD during last 12 months:-

Safer Roads, Hull Conference – Graham Feest Consultancy – 1 day
 Structured reading – DfT The Road Safety Statement 2019 – 1 day
 Structured reading - DMRB GG142 WCHAR– 1/2 day
 Structured reading – DfT Provision of road restraint LHA Roads – ½ day

GG119 Safety Audit experience during last 24 months-Extract Only – 468 RSAs completed 4/18-9/20:-

- Dunwoody Way – Cycleway and access provisions – Stage 3 – Team Leader, Apr 2018
- A1(M) Junc10 alterations – Stage 1 – Team Leader, May 2018
- The Hawthorns, Keele – Highway alterations - Stage 1&2 – Team Leader Jun 2018
- Lubbersthorpe Bridleway – Stage 1&2 – Stage 1&2 – Team Leader Jul 2018
- Heysham – Traffic calming measures – Stage 1&2 – Team Leader Aug 2018
- A590(T) Ulverston – Junction improvements – Stage 1 – Team Leader Sep 2018
- A34 Adlington Slip Road – Additional traffic lane and roundabout alterations – Stage 3 – Team Leader, Oct 2018
- Grangeway Halton – S38 Works – Stage 3 – Team Leader, Nov 18
- Roman Road Holmer – S278 Works, Stage 3 - cycleway, toucan crossings – Team Leader Dec 18
- Denfold Road Liverpool – S38 Works – Stage 1&2 – Team Leader Jan 19
- Audley, Sunngindale – Traffic Calming and Access works – Stage 1&2 - Team Leader, Jan 2019
- Murdishaw Avenue, Halton – traffic Calming Works – Team Leader Stage 3, Feb 2019
- M4 Celtic Manor – Roundabout improvement Works – Team Leader, Stage 1&2, Feb 2019
- A59 Broughton Hall – Widening and ghost island works – Stage 1&2 – Team Leader Feb 2019
- Sedgemere roundabout, Nuneaton – New roundabout arm – Stage 1 – Team Leader Mar 2019

- Keer Bridge Carnforth – New roundabout arm – Stage 1&2 – Team Leader – Mar 2019
- Trent Road Stone – Internal access roads – Stage 3 – Team Leader - Mar 2019
- A495 Gobowen – Access provision – Stage 1 – Team Leader – Mar 2019
- Deeside Park&Ride – Access and bus/cycle infrastructure – Stage1&2 – Team Leader – Apr 2019
- Mile End Road, London – Access and TM for construction – Stage 1&2 – Team Leader – May 2019
- A49 Chester Road Cuddington – Access provision – Stage 1 – Team Leader -June 2019
- Green Lane Maghull – Signal works, pedestrians measures – Stage 3 – Team Leader June 2019
- Corporation St Blackpool – Bus stands – Stage 1&2 – Team Leader – Jul 2019
- A523 Macclesfield – Dual Carriageway access prov. and roundabout works – Stage 2 – Team Leader Aug 2019
- Luton Airport Drop off zone – Stage 2 – Team Leader – Sep 2019
- A438 Ledbury – widening works – Stage 3 – Team Leader Oct 2019
- A453 Evo Triangle Ph1– SPECS3 – Stage 3 – Team Leader Nov 2019
- A453 Evo Triangle Ph2 – SPECS3 – Stage 1&2 – Team Leader Nov 2019
- A65 Endmoor – Widening and access provision – Stage 1&2 – Team Leader Dec 2019
- A3400 Meon Vale, Stratford – new link roads and roundabout works – Stage 1&2 Team Leader Jan 2020
- A458T Wattlesborough – New Dwelling Access provision – Stage 2 Team Leader – Feb 2020
- A49T Dorrington – New Dwelling Access provision - Stage 2 Team Leader – Apr 2020
- A5036T Liverpool – New Industrial Access Provision – Stage 1 Team Leader – Apr 2020

Accident Analysis – Last year

- A14T Orwell Crossing Accident Analysis Report
- A534 Cheshire – Route Accident Study
- Millstone Road Wolverhampton – Accident analysis Report
- New Mount Street Manchester – Accident analysis
- George Leigh Street Manchester – Accident analysis

Relevant Experience / Key Skills

Highly motivated and versatile Senior Civil Engineer with over 25 years experience in a wide range of Civil Engineering disciplines including:

- Road Safety Audit Team Leader accreditation to GG119 after completion of formal 10 days safety audit training course and experience. At the time of writing, estimated to have completed in excess of 2000 HD19/GG119 compliant RSAs (Stages 1 to 4b) ranging from small improvement schemes to S38/S278, and multi million pound bypass schemes – Highways England approved Audit Team Leader on part time secondment at principal level as road safety engineer /auditor to Area 10 ASC.
- Considerable experience in Highways England lead road safety processes including feasibility, accident analysis and investigation, road safety engineering, development of scheme design and road safety audit.
- NMU/WCHAR audits to HD42/05/HD42/17/GG142 - Estimated to have completed over 100 NMU audits on various developer and local authority lead schemes (Local Authority and Highways England networks) from new accesses and development sites to roundabouts, junction signalisation and widening schemes.
- Extensive experience in the completion of accident investigation engineering including feasibility studies and TA studies (including private work for Developers), utilising DfT and ROSPA casualty reduction procedures, Police Road Death Manual, guidance and option engineering.
- Project Management techniques and Delivery including team management and resourcing.
- Establishment, implementation and co-ordination of various Local Authority departmental

budgets including Capital, Revenue and Maintenance programmes, works including road safety, traffic calming, junction/link improvements/crossing and cycle facilities/bus corridors, etc.

- DMRB / Manual for Streets 2 compliant Detailed Highways and Drainage design and review.
- Extensive knowledge of TSRGD signing and lining design.
- Conception and implementation of TRO's, TTRO's, diversion routes, decriminalised parking and on street pay and display schemes implementation, traffic management layouts, sign/posts/foundation design.
- Scheme appraisal and design, including PAR, CDM, COSHH, HARM, Environmental Assessments, Tech Approval, departure submissions, site supervision, liaison with the public (including workshops and Public Consultation), Clients (including Highways England, Local Authorities, Developers), stake holders, contractors and sub-contractors, Public Utilities and other third parties.
- NEC Contract document preparation and review
- RC Detailing / steel and concrete design, structural steelwork fabrication, RRRAP assessments.
- Conversant with dealing with and negotiating on highways related planning issues on behalf of Developers and Planning Authorities-Design, S106/278 contributions, land usage, access requirements, etc
- Proficient in the use of Microsoft Office, Project, Autocad releases 1 through 2013, Microstation, and various software such as KEY Systems (Lines, Signs and Accident/Database), ARCADY, PICADY, TRANSYT, SAFENET, QUADRO, TRICS, Oracle, etc

Experience record:-

1994 – Present – Highway Associates

Road Safety Audit Team Leader - Director

Whilst working outside of secondment positions, leading and managing a team of Road Safety Auditors, undertaking and managing GG119 compliant RSA stages 1 to 4b and NMU audits to HD42/05 for S38 and S278 schemes throughout the UK with works costs ranging from £15k to £25+million for a number of major clients including:-

Waitrose, Co-op, Tesco, Aldi, Lidl. Bovis Homes, Barratt Homes, Morris Homes, Thomas Jones and Sons, Redrow Homes, Elan Homes, Bloor Homes, Bellway Homes, Taylor Wimpey, EDF Energy, Singleton Clamp & Partners (SCP), WYG, WSP, THDA, PTB Transport, VTC Consultants, Go Surveys, AxisPed, Betts Associates, Partner Construction, Emerson, Rowcon, Bryan G Hall, Cameron Rose, Fawley Construction, MMP Architects, Ashley Helme, Partner Construction, Cheshire East Council, The Highways Agency, etc.

A wide range of schemes audited include new accesses, different junction types including signal control and roundabouts, new link roads and interfaces (inc. S2, S3, D2, D3 layouts), controlled NMU crossings (all types), cycle lanes and routes, shared use surfaces, localised widening, footway construction, motorway improvements. Includes post audit liaison with Project Sponsor / Highway Authority and clients to help resolve outstanding road safety issues through technical knowledge and experience.

Completion of accident investigation studies to aid development proposals, including accident analysis, risk assessment, RRRAP, and option engineering.

July 2013 - Apr 2016 Balfour Beatty Mott Macdonald - Highways England Area 10 ASC

Road Safety Engineer (Principal)

Carrying out HD19 road safety audit work (Stages 1 to 4b) on a secondment basis relating to the Area 10 motorway and trunk road network as both Team Leader and Team Member. Type of schemes audited include VRS and pavement schemes to £15m pinch point works.

Undertaking accident studies on the network identifying common collision causation factors and recommending mitigation measures. Completion and Annual Route Safety Reports for each route within the network for the past 3 years including accident analysis, cluster site analysis, comparison with national intervention levels and recommending areas for further treatment.

Assessment of the removal of street lighting along key routes through accident analysis.

Supervising and managing the workload of the road safety team.

2009 - June 2013 Cheshire East Council / Ringway Jacobs

Road Safety Team Leader / Principal Road Safety Engineer

Working on a secondment basis within the Strategic Highways department main tasks were to identify, develop and establish the Council's yearly Road Safety Programme to meet 2010 national casualty reduction targets and improve road safety performance indicators.

Also as Project and Programme Manager for many of the Capital programmes, managing/monitoring Capital budgets, resourcing, co-ordinating and supervising delivery through the Council's operations department or through direct design and implementation. In addition, project design of local safety schemes (Feasibility, accident analysis including committee approval through Detail Design and pricing) including junction realignment, traffic calming, mini roundabouts, signing and lining schemes, quality bus stops and routes, speed limits plus other TROs, Connect 2 Crewe to Nantwich Cycleway/Greenway network design and advice.

Other key elements and schemes include the identification, design and delivery of Road Rail Incursion Schemes including RRRAP assessments, introduction of SPECS3 camera systems, red light and fixed camera site maintenance administration, general management for the road safety section.

General liaison and query responses to the area offices, the media, Police, general public and ward members including committee / Delegated Member reporting.

Responsible for the Council's accident data monitoring and management.

Undertaking Road Safety Audit (RSA stages 1, 2, 3 & 4) as Audit Team Leader for all highway schemes within the Council including proposed S278/106 works. RSAs to date include the 5km A34 Alderley Edge Bypass and satellite junctions, M6 Junction 16 widening works, various signalised junctions, junction improvements, roundabouts, etc.

Council representative for fatal collision investigation in conjunction with Police, completion of fatal accident reports.

Completion of Non Motorised User audits for cycle schemes within the Council.

Advising on road safety matters and highway risk assessments to other departments within the council such as Education and Development Control. Development of various road safety policies including speed limit review and road safety audit. Design reviewing and liaison with stakeholders of major highway projects within Cheshire including A556 Extension/De-trunking, SEMMMS, Crewe Green Link Road, M6 Junction 16, etc.

1996-1999, 2002-2004, 2010 Blackburn Borough Council / Capita Symonds

Road Safety Project and Traffic Engineer('96-'04), DC Team Leader ('10)

Initially subcontracted as a traffic and road safety Project Engineer involved in the design and delivery of Blackburn Council's Capital Schemes. Schemes included road safety improvements through DMRB compliant carriageway and kerb re-alignment (including vertical profiles), junction design and improvement, signing and lining, quality bus stops, bus corridors, cycle routes, etc.

Processes included the making of new TROs and TTROs (all types and stages from initial conception, through consultation, advertising and finally implementation and writing committee reports where necessary) including parking decriminalisation.

Role also included managing and implementing works relating to road safety, traffic / highways issues and improvement schemes. Other key duties included dealing with day-to-day highways and traffic issues and requests from the public.

In 2010, I returned working part time as the interim Team Leader within the Highways Development Control team, writing and reviewing highways comments on relevant Council planning applications, offering pre-application advice, negotiation of S106 monies, analysing and commenting on TAs, carrying out design check work and discharging conditions. I also managed the workload of other team members.

2005-2007, 2009 Warrington BC

Area Engineer

Working within the Highway Services department, involved in developing, project managing and designing Capital and Local Safety Schemes (LSS) funded through the LTP. This involved identification

of potential schemes through AIP studies and taking them through the complete process from preliminary design and consultation to detail design and site supervision. Also included in day to day tasks were general project management tasks including the supervision of team staff, budget and scheme monitoring, dealing with Ward Members and public, committee report writing, TRO implementation, attending consultation meetings, contract preparation on large traffic related maintenance schemes, etc.

Also, working within Transport Planning, investigating and providing highway and safety comments on Planning Applications received including Sections 106 and 278 agreement works, design reviewing to current standards and offering pre-application advice to developers.

2007-2009 AmeyMouchel (Highways Agency MAC 9)

Senior Engineer

Working within the Network Improvement Team, responsible for the management and production of various Accident Study Reports as a result of identified route management strategies (RMS) recommending network improvement strategies and casualty reduction works for the Highways Agency MAC 9 commission. Technical review to DMRB standards of identified network assets recommending improvements where necessary. Also included working within the detail design team as a project engineer working on schemes such as the signalisation of A5 Emstrey roundabout. This was in addition to general project management tasks including the management of team staff, budget and resource monitoring. Other key tasks included data collection, report writing, attending meetings and liaison with the HA, the public and stake holders, consultation exercises, preliminary and detailed design for Local Network Management Schemes (LNMS), checking and reviewing general work/design work to current DMRB standards and evaluating scheme appraisals through the Highways Agency PAR system.

2006-2007 Jacobs Telford

Senior Project Engineer

Working within the Highways department, involved in the identification, collision and cost benefit analysis, design and management of highway infrastructure and road safety improvements for a number of their clients through framework agreements.

Projects included junction design, urban traffic calming, full speed limit review for an entire County Borough, cluster site and route analysis, enhanced pedestrian and cyclist measures, bus priority, quality bus stops, red routes, mini roundabouts, junction improvements schemes.

2005-2006 Chorley BC

Senior Project Engineer

Design and implementation of Chorley Borough Council's Capital schemes including, cycleway networks, traffic calming and car parking both on street and off street from identification of conceptual schemes, through preliminary and detailed design stages and site supervision.

1996,1999-2002 Jacobs/Babtie Group –Shrewsbury/Telford (Highways Agency Area 10)

Project Engineer / Designer

Working for the Area10 (Highways Agency Super Agency) contract. Numerous Accident Investigation, Route and Traffic Studies were completed as a result of collision cluster site analysis recommending improvements on the trunk road network and providing feasibility designs to meet Government targets. This included the detail design of various highway and road safety improvement works like traffic calming, junction improvements, general signing and lining, maintenance and safety improvement schemes, project management, HA liaison including departure identification/authorisation, site supervision including resident engineer duties.

Prior to that in 1996 I was employed as an RC detailer working on highways structure drawings for the A1M in West Yorkshire.

1995-1996 JMP Consultants - Manchester

CAD Manager/Project Engineer

Responsible for the management of the CAD department including staff resourcing, monitoring and day to day running of the CAD section (approximately 10 users). In addition, working within the structures and infrastructure departments, I was responsible for the production of detail design drawings for various works including domestic and commercial foundation design, drainage, link road design,

Railtrack (now Network Rail) full railway station refurbishments including platforms based on rail levels and being the Engineer's representative on site.

1995 Trafford Borough Council

Senior Technician

Design and supervision of various local highways and traffic schemes including works for The Trafford Centre infrastructure (link roads and roundabouts) utilising MOSS output.

1994-1995 Leeds City Council

Assistant Engineer

Design and supervision of a wide range of traffic engineering related schemes. Also involved with preparing committee reports and dealing with traffic issues from the public.

1994 DHV Reigate

Designer

Design and Autocad drafting of various infrastructure related schemes and S278 works. Included Steelwork, and structure design, drainage and highways design.

1993-1994 and 1995 Gifford and Partners Chester / Southampton

Technician

Primarily involved in completing Autocad and hand drawings for various civil engineering infrastructure projects, both in structures and highways including extensive RC detailing drawings on bridge structures in the UK, Malaysia and Hong Kong.

1990-1991 Brown and Root Civil/Howard Humphries

Junior Technician - Permanent

Employed during my gap year as a junior technician within the different civil disciplines of the Manchester office of the company, primarily drawing sketches and carrying out preliminary and detail design on Autocad. Main scheme involvement was the design of the M65 motorway in Lancashire which included public enquiry experience.