

Project: Drain replacement works at M40 Highways

Location	Junction 15 M40 Northbound, Warwick
Client	UK Highways (M40) Ltd
Date	September 2020
Category	Highway Remedials

Project Summary

Project Activity: Highway drainage replacement

Length of Drainage Replaced: 120metres

Hours of Works: Weekend and night-time working

Summary of Works: In June 2019 Crown Plus initially undertook as-built survey works of an existing Aco-drain, located between the slip road and lane 1 of the M40 northbound at junction 15 which identified 120m of drain required replacement. In collaboration with the client, the commission was extended with Crown Plus appointed principal contractor for the necessary drain replacement works which were subsequently carried out in 2020.

Junction 15 carries around 75,000 vehicles a day. This busy section of road is where the London-Birmingham motorway (M40) meets the A46 and the A429, linking Stratford-upon-Avon, Warwick and Coventry, necessitating detailed planning and effective collaboration with the numerous third parties and stakeholders involved.

The drainage replacement works were successfully undertaken as planned, with no safety or environmental issues and no near misses. Crown Plus attribute the success of this commission to the high levels of health and safety and through the following factors:

- Rigorous pre-planning and preparation
- Effective supply chain management
- Collaborating with all stakeholders
- Having knowledgeable, flexible and capable staff
- Good supervision



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Full Programme Details

The replacement works required a great deal of planning and liaison with several stakeholders and organisations. These included:

- Warwickshire County Council
- Area 9 (Kier)
- EGIS – M40 Maintenance contractor
- Network Control Centre – road space booking
- UK Highways Principal Designer
- Aco (drain manufacturer)
- Supply Chain

As principal contractor Crown Plus prepared the Construction Phase Plan and submitted an F10 to the Health and Safety Executive.

There were a number of disciplines involved in the renewal works, these included:

1. Traffic management contractor
2. Aco
3. Concrete supplier
4. Plant hire (Excavators, Grab Wagons)
5. Floor saw contractor
6. Reinstatement contractor

All the contractors employed on the scheme were required to pass our supply chain evaluation and were all fully briefed into the requirements of the scheme.

Traffic Management

The traffic management layout for the renewal scheme was different to that of the initial survey works. This phase of the works required a full closure of the motorway at Junction 13 northbound, however we were able to leave the junction 14 entry slip open with traffic being diverted to junction 15 and being diverted back on to motorway via the Junction 15 northbound entry slip road. All works were undertaken over 1 weekend and 3 weekday nights to minimize the disruption to road users. Temporary traffic signals were also installed in consultation with Warwickshire County Council at junction 13 to avoid traffic queuing back onto the motorway.

Key Personnel

The key personnel involved in this project were our:

- Contracts Director
- Contract Manager (SMSTS)
- Supervisor (SSSTS)