

Area 3 ASC

Renewal of Structures Scheme RS8D

Scheme Brief

AMENDMENT RECORD

Amend . No.	Issue Date	Amendments	Initials	Date
0	August 2012	First Issue	SOS	21/8/12

1 Scheme Type

This scheme is a value band D (£1m to £5m) structures scheme.

2 Scheme Description

The scheme involves works on a simply supported single span composite steel/reinforced concrete bridge carrying a 3 lane motorway over a side road.

The works are to replace the existing concrete deck slab to address the ongoing concrete deterioration (ASR) and substandard load carrying capacity.

The works include; construction of central reserve crossovers, replacing the existing concrete deck, repairing the tops of the wing walls, replacing the associated parapet and safety barrier (on and adjacent to the bridge deck), installing new deck drainage and painting the existing steel beams.

The works will include but not be limited to:

- Provision of temporary accommodation or all necessary facilities to meeting health and safety requirements;
- General site clearance;
- Removal and replacement of no more than 140m of existing safety barrier within verge, including removal and reinstatement of posts, connections, terminals and associated works;
- Excavation and disposal of material, including hard material as required, to expose existing concrete structure, including reinstatement following the investigatory works;
- Provision and installation of upvc service ducts to replace existing;
- Breakout and disposal of existing concrete deck, of total area no more than 950m² including removal of existing bituminous surfacing;
- Application of protective paint system to existing steelwork of a total area of no more than 1250m²;
- Construction of new concrete bridge deck, 220mm thick, including provision and installation of waterproof membrane, joints, sealants and all other associated works, or a total area of no more than 950m²;
- Provision and installation of new vehicle parapets of total length no more than 120m;
- Reinstatement of asphaltic plug joints;
- Reinstatement of carriageway surfacing including all associated road markings and studs.

3 Road category on which the work is to be carried out

The works will take place on a dual three lane motorway.

4 Traffic Management

The provision of traffic management is outside the scope of this scheme.

5 Period within which the work is to be carried out

The works are to be carried out within Time Band 4.

6 Site Restrictions and Constraints

The following restrictions and constraints exist at the works location:

- The works are in close proximity to a private residence and therefore noise mitigation will be required;
- Motorway communication cables are suspended between the beams from the concrete slab.

7 Indicative Programme and Season within which the work is to be carried out

The works are to be completed within 24 weeks.

The majority of the works are to be constructed during British Summer Time.