

# HIGHWAY STRUCTURES

# Appendix G

## Introduction

The design of Highway Structures shall generally be in accordance with the Design Manual for Roads and Bridges, as published by Highways Agency. Although this manual was written primarily for Trunk roads, it shall be applied, as far as is reasonably practicable, to local roads. Where the application of the standards within the Design Manual is unclear or departures are required then advice should be sought from The County Bridge Manager (CBM).

## Technical Approval

The procedure for Technical Approval of Highway Structures shall follow that detailed in BD 2/05 of the Design Manual for Roads and Bridges, as published by Highways Agency.

The Technical Approval forms used for all Staffordshire County Council designs shall be obtained from the CBM, those contained in the Appendices to BD2/05 shall not be used.

Technical Approval is required, not only for permanent structures, but also for temporary structures where their erection, construction or use could affect the safety of the public.

## Options

It is essential that as soon as the need for a highway structure is established advice be sought from the CBM. He will advise on the procedure to be followed, acceptable forms of structure, category of structure and adopted status.

When determining the form of structure the following shall be considered:-

- Whole life cost
- Aesthetics
- CDM issues
- Effects of vandalism
- Effects of construction on the existing highway user.

## Approval in Principle

For all structures other than those of category 0, an Approval in Principle (AIP) is required. This shall be submitted to the CBM for agreement.

For category 0 structures, the designer shall submit brief details to the CBM for agreement.

A period of 4 weeks shall be allowed between submission of an AIP and receiving comments or agreement from the CBM. Should the designer start detailed design work before the AIP is agreed then he does so at his own risk.



## **Design and Check Certificates**

A single, original, signed certificate, appropriate to the category of structure, shall be submitted to the CBM for acceptance.

A copy of the General Arrangement drawing shall accompany the certificate for a category 0 structure.

## **Design Drawings**

The completed design drawings shall be submitted for approval prior to the start of construction. The drawings will be reviewed for ease of maintenance and durability.

## **Construction**

When it is deemed necessary, SCC will inspect the works during construction. However, in order to ensure compliance with the approved drawings the contractor/designer should supervise the construction.

A construction compliance certificate is required from the contractor stating that the construction is in accordance with the drawings and specification.

## **Hand-Over Inspection**

When a structure is to be adopted by SCC, a handover inspection will be carried out. A list of any defects found will be forwarded to the contractor for remedial action.

## **Health and Safety File**

SCC require a completed Health and Safety File, as required by Construction (Design and Management) Regulations 2007, prior to the structure being adopted. As-built drawings of the highway structure and future maintenance requirements shall be included in the Health and Safety file.

