

APPENDIX 7B: WCC DESIGN GUIDE – RELEVANT STRUCTURES

New structures to which this guide shall be applied are determined by the Geometric Criteria set out in CG 300 and summarised below in Table 7B.1:

Type of Structure	Geometric Criteria
Bridge, buried structure, subway, underpass, culvert and any other structure supporting the highway	Clear span or internal diameter greater than 0.9m
Overhead crossing carrying conveyor or utility service	All
Moveable inspection access gantry, gantry rail and gantry support	All
Earth retaining structure	The effective retained height, i.e. the level of the fill at the back of the structure above the finished ground level in front of the structure, is greater than 1.5m
Reinforced/strengthened soil/fill structure, with hard facings to be designed and construction either in isolation or as an integral part of another highway structure	The effective retained height is greater than 1.5m
Reinforced/strengthened soil/fill which is an integral part of another highway structure	All
Portal and cantilever sign and/or signal gantry	All
Cantilever mast for traffic signal and/or speed camera	All
Lighting column	All
High mast	More than 20m in height i.e. the vertical distance from top of post to bottom of flange plate, for lighting.
Mast for monitoring equipment. i.e. camera, radio and telecommunication transmission equipment	All
Catenary lighting support system	All
Environmental/noise barrier	All
Proprietary manufactured structure or product	All
Traffic sign/signal posts	More than 7m in height, i.e. the vertical distance from top of post to bottom of flange plate or top of foundation whichever is the lesser.
Fitting of M&E apparatus and fixtures to existing structures, including tunnels, either permanent or temporary	All
Design, selection and installation of cathodic protection systems for reinforced concrete structures	All
Safety critical fixings as defined in CD 372 (Ref 3.N)	All

Table 7B.1: Structures subject to Technical Approval Processes