

SPECIFICATION SERIES 1200 APPENDIX

TRAFFIC SIGNS AND ROAD MARKINGS

BROOKLEIGH, FAIRBRIDGE WAY IMPROVEMENTS

Homes England

Project number: 60610807
60610807-ACM-CS-FBW-SP-HW-1200

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Foreword

Scope of Appendices

All appendices relevant to the Fairbridge Way Improvements have been produced in accordance with the Specification for Highway Works.

Contractual references and terminologies used within the appendices are to be discussed and agreed with Homes England, as part of the scheme contract.

Any Appendix referred to in the Specification which is not used shall be deemed not to apply.

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Appendix 12/1 – Traffic Signs: General

Traffic Signs

1. All signs and posts shall be manufactured and erected in accordance with BS 8442, BS EN 12899-1, Traffic Signs Regulations and General Directions 2016, Traffic Signs Manual, Specification for Highway Works, location plan and associated sign schedules and the following specification.
2. The approximate locations of proposed traffic signs are shown on drawing 60610807-ACM-CS-FBW-IS-HW-0010.
3. The precise location of sign faces and posts is to be determined in accordance with clause 1208 and the recommendations of Chapter 1 of the Traffic Signs Manual.
4. All sign faces to be made from Class Ref 2 to BS 8442 & BS EN 12899-1 reflective material unless otherwise specified.
5. All signs, whether constructed of sheet or extruded plank, shall be manufactured in aluminium.
6. The manufacturer's sign fabrication drawings shall be submitted to the Project Manager for checking. Manufacture may not commence until the Project Manager's approval has been received.
7. Notwithstanding the requirements of Clause 1202.8, the Contractor shall store the signs as described below:-

Wherever possible signs shall be stored indoors. The following procedures must be followed:

- i) If stored indoors, the packaging (provided it is dry) shall not be removed unless storage is to be for an extended period of time more than 4 weeks). If packaging is removed, the SCW82 slip sheeting shall remain in-situ to protect the sign face. In either case, the signs must be supported on wooden battens in the upright position so that they do not touch.
 - ii) If stored outdoors, all packing shall be removed and the signs placed on wooden battens in the upright position with plenty of space for free air circulation. Signs shall not be allowed to come into contact with treated wooden posts and shall not be allowed to stand in water at any time.
 - iii) Sharp or heavy objects shall not be placed on or against signs during storage.
8. The required durability of all sign plates and faces shall be as follows:-
 - i) 10 years for signs manufactured with class 2 and/or microprismatic (or equivalent) face material.
 - ii) 7 years for signs manufactured with other face material.
9. All sign faces shall be Class Ref 2 to BS 8442 & BS EN 12899-1 or microprismatic reflective (as stated in sign schedules).
10. All signs shall be supplied complete with sufficient clips, brackets and ancillary items, to suit the posts or wall to which they are to be fitted.

Posts for Permanent Traffic Signs

11. Posts for Permanent Traffic Signs shall be as shown on the contract drawings and specified as follows:
 - i) Tubular steel posts shall be manufactured from steel complying with the requirements of BS EN 10210. Wide based posts shall also be to this specification. The minimum base section diameter for a wide based post is 168mm.
 - ii) Base plates shall be fitted to each embedded tubular post at the bottom of the foundation.
 - iii) Plastic post caps of the appropriate size shall be fitted to the exposed ends of all tubular steel posts.
12. Posts shall be either:
 - i) Cleansed of grease, scale and rust, shot blasted and then galvanised. or
 - ii) Coated with grey PVC or PPA coating.
13. A manufacturer guarantee of 20-Year life on all posts will be required.
14. Galvanising shall be by an approved hot-dip process in accordance with BS EN ISO 1461. When finished the galvanising shall be smooth, reasonably bright, continuous and free from imperfections such as flux, ash, and dross inclusions. If bare patches or spots due to inefficient pickling or persistent types of scale etc. are apparent, the work shall be completely stripped and re-galvanised.
15. Foundations for posts shall be constructed as detailed on the contract drawings.
16. The sign plates or planks shall not be fixed until three days after concreting of the posts.
17. Where signs are illuminated provision shall be made for cable entry through the concrete base by means of a 50mm diameter flexible PVC duct.
18. Standard post for non-illuminated signs to be dia.76mm (thickness less than 3.2mm) unless otherwise stated on contract drawings, see sign schedule for details.

Installation of Permanent Traffic Signs

19. Signs shall be erected in accordance with the contract drawings.
20. During sign erection, measures shall be taken to ensure that signs are not abraded, impacted or otherwise marked.
21. Tape shall not be applied to sign faces.
22. Where it is indicated in the Contract that an existing sign is to be replaced with a new sign of greater height, additional lengths of post are specified. These additional posts shall be fixed to planks which have already been fixed to the existing posts such that the additional planks can in turn be fixed to the projected lengths of the additional posts. Each plank, which is in contact with the additional posts, shall be fixed to each post.
23. Signs on single posts shall be fixed by a minimum of 2 clips. Such clips shall be specially designed to prevent rotation of the sign.
24. Signs on U.B. posts, shall be fixed by clips specially designed for use with such posts.
25. The Contractor shall allow in his rates for the local trimming of vegetation. Such trimming shall be undertaken to permit the sign to be erected or replaced, in its correct position such that the sign face is fully visible from a point on the edge of the carriageway 25m in front of the sign.

Foundations

26. Where concrete foundations surround unducted cables 100mm UPVC ducting will be provided and laid to protect the cable.
27. Foundations shall be provided to sizes as specified on the contract drawings.

Illuminated Signs

28. None required.

Cleaning of Signs

29. Signs shall be cleaned immediately prior to commissioning. Existing signs shall be cleaned only when instructed by the Project Manager.
30. Cleaners shall be non-abrasive, neither highly acidic nor alkaline (pH 6 to 8) and free of damaging solvents.
31. Signs shall be cleaned as follows:
 - i) the entire surface of the sign shall be flushed with clean water to remove loose dirt particles;
 - ii) the sign shall be washed from the top down with a soft brush, rag or sponge. After the cleaner has been applied, a steady stream of water shall be directed onto the surface to wash away dirt particles.
NB High pressure sprays shall not be used; and
 - iii) the entire sign shall be rinsed with clean water and allowed to drain dry.
32. The inside of translucent panels of all internally illuminated signs shall be polished using anti-static fluid.
33. Lighting units of lit signs shall be cleaned at the same time as the signs.

Temporary Traffic Signs

34. All temporary traffic signs shall be constructed to the same standard as permanent signs.
35. Signs which are damaged or have lost their reflectivity shall not be used.

Appendix 12/3 – Traffic Signs: Road Markings and Studs

Road Markings - General

1. The approximate locations of proposed road markings are shown on drawing 60610807-ACM-CS-FBW-IS-HW-0010. The precise location of the sign faces and posts is to be determined in accordance with clause 1208 and the recommendations of Chapter 1 of the Traffic Signs Manual.
2. White road markings shall be thermoplastic material complying with BS EN 1871; reflectorised with glass bead; have a skid resistance value of 55 and will be screed applied. Yellow road markings can be thermoplastic material complying with BS EN 1871 or paint.
3. Width tolerances and thickness for screed, spray, preformed and extruded white or yellow lines shall be in accordance with the Traffic Signs Regulations and General Directions (TSRGD).
4. Permanent road markings shall not be used for temporary road markings on wearing courses of carriageways forming part of the permanent works.

Preparation of Road Surfaces

5. The Contractor will be responsible for light hand sweeping.

Performance Requirements

6. The skid resistance of all markings shall be not less than 45 PSV when measured, using BS EN 1871:2000/BS EN 1824:1998 and BS EN 1423:1998.
7. The road marking shall be firmly bonded to the underlying surface with a material thickness no less than 2 mm. The maximum thicknesses shall be as per the TSRGD.
8. The Total Wear Index, at any position in the Works, as selected by the Overseeing Organisation, shall not exceed 30 when assessed in accordance with the Road Safety Markings Association procedure for determining wear/erosion of road markings.

Setting-Out Requirements

9. Road markings should be laid with a smooth alignment. The Contractor shall be responsible for the correct setting out of all lines, words, arrows and stripes. The setting out of road markings shall be agreed with the Overseeing Organisation on site, unless otherwise agreed by the Overseeing Organisation.

Existing Markings

10. Where a marking is required to be laid on top of or partially on top of an existing marking, the combined total thickness shall not exceed 6 mm as detailed in TSRGD. Any superseded marking shall be either permanently removed or totally and efficiently covered by the new marking.
11. When directed by the Overseeing Organisation, the Contractor shall carefully remove old markings by an approved method to ensure that the prepared surface is suitable to receive a new marking of regular thickness. Damage to the adjacent road surface shall be minimised.
12. The removal of permanent road markings shall be by hydro-blasting techniques only. Where mechanical means are to be used, the Contractor shall submit details of the system proposed to the Overseeing Organisation for approval.

Dimensional Tolerances

13. The length and width of road markings shall be as specified with the permitted tolerance as follows:
 - Length +10%, -5%

- Width +10%, -5%

Workmanship – Road Markers

14. On completion of each day's work the road shall be left clean and free from any surplus material spilled during the progress of the work. All markings shall be uniform and free from streaks or blisters and shall be free from raggedness at the edges. Trimming of edges, where necessary shall be undertaken as the work proceeds.

Temporary Road Markings

15. Thermoplastic material complying with Clause 1212 of the Specification for Highway Works may be used as a temporary road marking on any surface that is to be overlaid under this contract.
16. The following prefabricated temporary road markings are approved for use if required on any new wearing course:

White:

Scotchline – 3M

Visiline - Redland Prismo Ltd

Remline - Manchester Safety Services Ltd

Black:

Scotchline - 3M

Remline - Manchester Safety Services Ltd

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