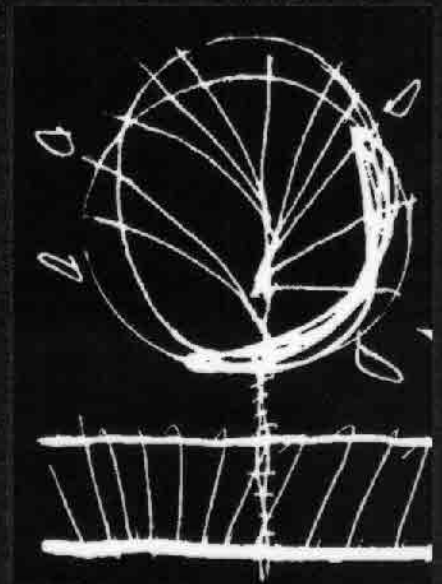


Dundee Ambassador Routes Design Guide



commissioned by

Dundee City Council

Department of Planning & Transportation
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prepared by

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EDINBURGH EH1 3NX

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(Not included in Issue 1 - 9/98)

Part I

INTRODUCTION

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INTRODUCTION

Sheet
1.1.

1.1.1 What is the Design Guide?

- This document seeks to provide a means of securing future development and improvements to the main arterial routes into Dundee in a cohesive and effective manner.
- It has been prepared as a working document following on from the preparation of the 'DUNDEE AMBASSADOR ROUTES STRATEGY' and adoption by the Council and Local Enterprise Company, Scottish Enterprise Tayside.
- The aims of the strategy are to secure environmental, tourism and economic benefits to Dundee by the adoption of certain physical measures to secure:-
 - A coherent and distinctive improvement to the image of Dundee.
 - A more inviting destination and means of access to the city centre for all classes of visitors.
 - A raising of the environmental quality of the City's approaches.
- A series of targeted environmental and signage initiatives are proposed for implementation by the project partners. These improvements will implement, in part, the elements of this design guide in which a total of £7 million public and private funding will be invested over the next 5-6 years.

1.1.2 Why Use This Design Guide?

- *The Design Guide has been prepared to set minimum design standards to ensure the aims of the DUNDEE AMBASSADOR ROUTES STRATEGY are met by developers to influence the function and appearance of these routes.*

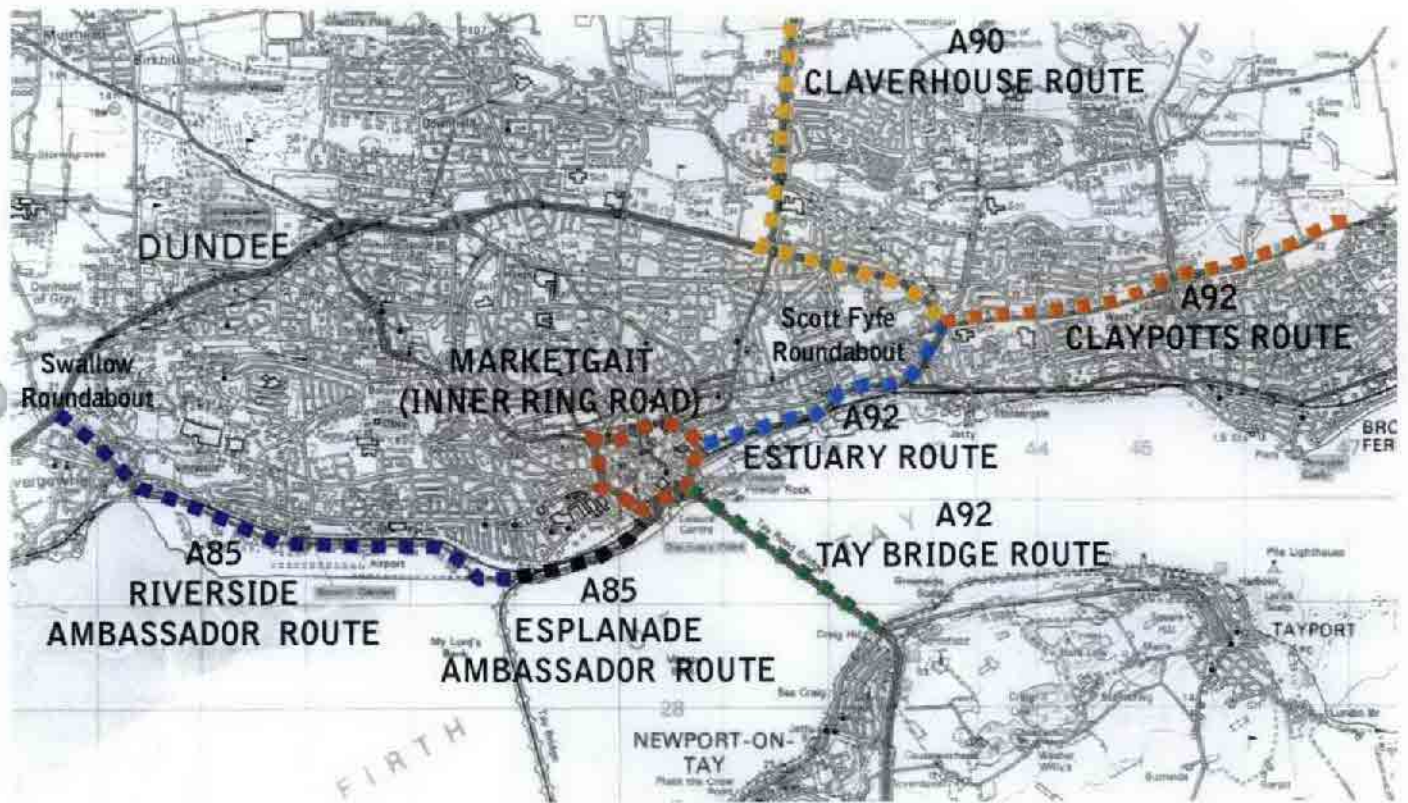
For the purposes of this design guide DEVELOPERS may comprise:-

- Land Owners
- Local Authority Departments
- Residents
- Developers
- Scottish Office Roads Directorate / TPU

- *By following the design principles of this design guide you will be contributing to the overall Strategy and will be playing an important part in improving the economic future of the City.*

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Sheet
I.2.



I.2.1 Where Does It Apply?

The Ambassador Routes comprise six main arterial routes into Dundee and also include the inner ring road.

These are as follows:-

- Riverside Ambassador Route - A85
- Esplanade Ambassador Route - A85
- Claverhouse Ambassador Route - A90 Forfar Road
- Claypotts Ambassador Route - A92 Arbroath Road
- Estuary Ambassador Route - A92 East Dock Street & Greendykes
- Tay Ambassador Route - Tay Road Bridge
- Marketgait (inner ring road)

Design Guidance is proposed for certain elements within the visual envelope of the road corridor. Normally this applies to property boundaries, entrances and other elements and surfaces within the curtilage of the roads. The development control officer dealing with your application / proposal will advise on which 'Ambassador Route' you are located

INTRODUCTION

Sheet
1.3.

1.3.1 How Does It Apply?

- This guide identifies a range of elements which can be influenced by the Local Authority, through the Development Control process or by general policy statements.
- It is intended that the specification of new elements along the Routes shall follow the guiding principles set out within this document.
- This guide sets out a minimum standard of design to be achieved - higher quality schemes are to be encouraged and will be subject to individual agreement with the planning authority.
- The guide has identified certain key elements to be influenced which fall into the following categories:-
 - Boundary Treatments
 - Softworks
 - Hardworks
 - Street Furniture
 - Signage
 - Colour Treatments
- The relevant guidance sheets will be issued to an applicant for information and reference during the preparation of his/her planning application /proposal.
- Development control will assess the application to identify opportunities to further the design intent expressed within the design guide.

1.3.2 First Principle Rules

General comments that apply to all sections of the Design Guide:-

- For schemes above a capital value of £10,000 professional design expertise will be expected to be provided by the applicant.
- For implementation of the works contractors of suitable expertise and experience will be expected to be employed.
- Elements selected must be appropriate for their function and use. The developer is responsible for correct application and installation of materials.

INTRODUCTION

Sheet
1.4.

1.4.1 How To Use The Design Guide

The following gives a summary of the process to be followed in using the enclosed information.

Step 1

- Identify which Ambassador Route your site is located on & seek confirmation from your Development Control Officer.

Step 2

- Refer to the selection MATRIX which gives an index for the elements covered within the design guide.
 - Your Development Control Officer may have already highlighted the items relevant to your site location,
 - Find the vertical column containing the name of your route, then select the category of land use / development use that your proposal falls within.
 - Follow the column down the page to find the elements that the matrix indicates for your route.
 - Each element is identified with a reference number.

Step 3

- Select the information sheets containing the reference number that the matrix has identified for you.

Step 4

- Select from the design elements illustrated as being preferred / suitable for your route.
 - You are encouraged to use the preferred option
 - Where relevant you are given a choice from which to select dependent upon the quality you wish to achieve.
 - Your selection may be based upon function or cost.

Tall security fence or low boundary fence? Natural stone slabs or PC Concrete?

1.4.2 Summary

- Refer to the matrix which acts as an index for elements and provides an 'at a glance' identification of information sheets and subjects which apply to the applicants site.
- Identification of route, land use and site use allows selection of elements.
- Information sheets may be issued to cover the specific requirements of the developer thus avoiding the issue of non-applicable information.
- These will be issued in addition to the general introduction section which applies to all applications and users.

INTRODUCTION

Sheet
1.5.

1.5.1 Design Element Information Sheets

- ❑ Sheets have been prepared to illustrate and describe: appearance, general dimensions, materials and finishes for each element relevant to the Routes.
- ❑ Sources of supply have been indicated where specific type/appearance is required. Substitutes may only be accepted if considered to offer a similar appearance and performance.
- *Construction methods, materials performance, specification and details of finish are all to be determined by the developer to achieve the appropriate quality of finish described on the sheets*

Example

Design Category

Element Reference Number

USES:
Indicate context in which element is to be used

MATERIALS:
General description of materials

FINISH:
Description of finished appearance

COST CATEGORY:
Comparative cost high / medium / low based upon cost of standard element

Information sheet reference number

DESCRIPTION:
Gives product name, order code and source of supplier / manufacturer

Element title

Illustration of appearance & general dimensions

Issue reference number

INTRODUCTION

Sheet
1.6.

1.6.1 Design Guidelines & Design Principles

- Additional information sheets are included. These cover subject areas where several design elements are combined to create a desired effect.
- These sheets give examples of good practice and 'how to' where relevant, highlighting need for awareness of special circumstances or 'quality' locations.
- Information is concentrated on situations where elements are used as components to create a desirable design combination.

1.6.2 Aftercare & Maintenance

Maintenance is a key issue and consideration for the long term quality and appearance of the Ambassador Routes. Design elements have been selected with specific consideration relating to their long term durability. However, even for the most durable of elements, attention to aftercare is essential.

In the execution of new works along the Ambassador Routes an understanding and commitment to aftercare and maintenance is essential and shall be clearly demonstrated by the developer. A detailed 5 year maintenance schedule for the works containing the following information shall be submitted by the developer for approval.

- Maintenance of all painted surfaces / repainting programme.
- Maintenance schedule detailing proposed regime for:
 - All shrub and ground cover areas, including pruning, weed control and pest/disease treatment.
 - All hedges and trees
 - Cutting height and frequency for grass areas
 - Bulb planting maintenance
- Schedule of operations and frequency of cleansing to hard surfaces.
- Maintenance and cleansing of street furniture.
- Litter Collection
- Inspection and replacement of damaged elements.

This should also include a clear commitment to the timeous replacement of all trees and shrubs that may fail due to natural factors, vandalism or any other causes and making good vandalism and / or damage to other hard works detailing, street furniture and fencing elements.

INTRODUCTION

REFERENCES

Sheet
1.7.

1.7.1 General

- ❑ The Design Guide has been prepared with reference to City Council Statutory and Non-Statutory documents and should be used with reference to these and all relevant British Standards and Best Practice Guidelines and applicable Statutory Documents.
- ❑ The following sets out the current documents that have been specifically used in the preparation of The Guide. This list is not fully inclusive nor exclusive of other relevant information.
- ❑ Whilst the design guide focuses on the selection and application of certain elements it is essential that good practice is followed throughout the specifying, implementation and maintenance process.

1.7.2 Dundee City Council Documents

- Guidance Notes For Planning Applications, DCC Planning and Transportation Department
- Dundee Local Plan 1998 / Structure Plan Tayside 1993
- Road Standards - current document

1.7.3 British Standards

BS 729 :1971(1994)
Specification for hot dip galvanised coatings on iron and steel articles.

BS 7818 :1995
Specification for pedestrian restraint systems in metal.

BS 4428 : 1989
Code of practice for general landscape operations. (Excluding hard surfaces)

BS 4043 : 1989
Recommendations for transplanting root balled trees.

BS 3882 : 1994
Specification for Topsoil

BS 5489 : 1992
Road Lighting

BS 3936 : Part 4 1984 (1989)
Specification for forest trees.

BS 3936 : Part 2 1990 (1995)
Specification for roses.

BS 3936 : Part 9 1987
Specification for bulbs, corns and tubers.

BS 3936 : Part 10 1989 (1995)
Specification for ground cover plants.

BS 3936 : Part 1 1992
Specification for trees and shrubs.

BS 7370 : 1991
Grounds Maintenance

BS 4533, Part 102 : 1990
Luminaires - Particular requirements

INTRODUCTION REFERENCES

Sheet 1.8.

1.8.1 Suppliers

BACO CONTRACTS
Chalfont Park
Gerrards Cross
Buckinghamshire
SL9 0QB
Tel: 01753 233466
Fax: 01753 233445

BUTINOX TIMBER FINISHES LTD
Monzie
Crieff
Perthshire
PH7 4HE
Tel: 01764 652740
Fax: 01764 655424

CAMAS Building Materials
Marions Way
Coventry Road
Croft
Leicester
LE9 3GP
Tel: 01455 288275
Fax: 01455 285284

COLOMBIA CASCADE LTD
Business Development Centre
Ammanford Road
Tycroes
Ammanford
Camarthenshire
SA18 3QN
Tel: 01269 596396
Fax: 01269 596395

**CLAYDON ARCHITECTURAL
METALWORK**
11-12 Claydon Industrial Park
Great Blakenham
Suffolk
IP6 0NL
Tel: 01473 831000
Fax: 01473 832154

CU PHOSCO LIGHTING
Charles House
Great Amwell
Ware
Hertfordshire
SG12 9TA
Tel: 01920 462272
Fax: 01920 461730

DULUX TRADE
ICI Paints
Wexham Road
Slough
SL2 5DS
Tel: 01753 691690

FURNITUBES INTERNATIONAL
Seagar Buildings
Brookmill Road
London
SE8 4HL
Tel: 0181 694 9333
Fax: 0181 694 8315

HS JACKSON & SON
(Fencing) LTD
75 Stowting Common
Ashford
Kent
TN25 6BN
Tel: 01233 750393
Fax: 01233 750403

MACEMAIN & AMSTAD
Boyle Road
Willowbrook Industrial Estate
Corby
Northants
NN17 5XU
Tel: 01536 401331
Fax: 01536 401298

MARSHALLS MONO LTD
Southowram
Halifax
HX3 9SY
Tel: 01422 306000
Fax: 01422 330185

TWIL FENCING PRODUCTS
Woodhouse Lane
Wigan
Lancashire
WN6 7NS
Tel: 01942 244071
Fax: 01942 824573

1.8.2 Other References

- "Streets Ahead" - Technical Guidelines for Quality Streetscape Projects, Scottish Enterprise.
- "Design Manual for Roads & Bridges" - Scottish Office Industry Department.
- "Manual of Contract Documents for Highway Works" - Scottish Office Industry Department
- "Footways Development Guide" - Strathclyde Regional Council.
- "National Plant Specification" - The Horticultural trees Association.
- "Trees and Shrubs for Landscape Planting" - Joint Council for Landscape Industries.
- "Traffic Measures in Historic Towns, An Introduction to Good Practice" - Civic Trust & English Historic Towns Forum.
- "Improving Design in the High Street" - Royal Fine Arts Commission.
- "The Hardy Nursery Stock Technical Manual" - Belwood Nurseries and Lothian & Edinburgh Enterprise Ltd.

Part 2

MATRIX

Part 3

FENCES

*Contents**Sheet Title**Ref No. Item*

3.1 Tall Fences

3.1.1 Close Boarded Timber Fence

3.1.2 Weldmesh

3.2 Tall Fences

3.2.1 Metal Vertical Bar Fencing

3.2.2 Heavy Duty Profiled Metal Tube

3.2.3 Light Duty Profiled Metal Tube

3.3 Low Fences

3.3.1 Light Duty Profiled Metal Tube

3.3.2 Wall Mounted Light Duty Profiled Metal

3.3.3 Wall Mounted Vertical Metal Bar

3.4 Low Fences

3.4.1 Metal Estate Fencing

3.4.2 Post & Wire Fence

3.4.3 Metal Tubular Hoop Top Railing

MATRIX

Ambassador Routes			Element Number	Claverhouse				Claypotts			Esplanade			Estuary			Marketgait			Riverside			Tay Bridge		
Design Categories	Sheet Number	Land Use Elements		Housing	Commercial	Industrial	Park & Recreation	Other	Housing	Commercial	Industrial	Park & Recreation	Housing	Commercial	Industrial	Park & Recreation	Housing	Commercial	Industrial	Park & Recreation	Housing	Commercial	Industrial	Park & Recreation	Other (Roads)
			3 FENCES																						
Tall Fences	3.1	Close Boarded Timber	3.1.1	●				●							●										
		Weldmesh	3.1.2	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Tall Fences	3.2	Metal Vertical Bar	3.2.1	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
		Heavy Duty Profiled Metal Tube	3.2.2	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
		Light Duty Profiled Metal Tube	3.2.3	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Low Fences	3.3	Light Duty Profiled Metal Tube	3.3.1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		Wall Mounted Light Duty Profiled Metal	3.3.2	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
		Wall Mounted Vertical Bar	3.3.3	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Low Fences	3.4	Metal Estate Fencing	3.4.1																						
		Post & Wire Fencing	3.4.2																						
		Metal Tubular Hoop Railing	3.4.3	●				●																	
4 WALLS & COPES PILLARS & CAPS																									
Walls & Copes	4.1	Stone: Dressed Coursed	4.1.1	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
		Stone: Square Random Coursed	4.1.2	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
		Stone: Random Coursed Rubble	4.1.3	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
		Rendered Walls	4.1.4	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Walls & Copes	4.2	Concrete Coloured Aggregate	4.2.1																						
		Concrete Retaining Wall	4.2.2																						
Pillars	4.3	Stone: Dressed Coursed	4.3.1	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
		Stone: Squared Random Coursed	4.3.2	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Pillars	4.4	Stone: Random Coursed Rubble	4.4.1																						
		Cast Stone / Colour Concrete	4.4.2	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Caps	4.5	Rounded Cap	4.5.1	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
		Two Tier Flat Cap	4.5.2																						
		Flat & Weathered Cap	4.5.3																						
Caps	4.6	Pointed Cap	4.6.1																						
		Pyramid Cap	4.6.2																						
		Flat Cap	4.6.3																						
5 SOFTWORKS																									
Planting Type & Function	5.1	Large Shrubs	5.1.1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		Medium Shrubs	5.1.2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Planting Type & Function	5.2	Groundcover Shrubs	5.2.1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		Climbing Plants	5.2.2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Planting Type & Function	5.3	Bulbs	5.3.1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		Trees & Hedges	5.3.2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Grass Seeding	5.4	High Amenity	5.4.1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Turfing	5.5	High Amenity	5.5.1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Plant Specification	5.6	Trees	5.6.1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		Hedges	5.6.2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Plant Specification	5.7	Trees	5.7.1																						
		Hedges	5.7.2																						
Plant Specification	5.8	Trees	5.8.1																						
		Hedges	5.8.2																						
Plant Specification	5.9	Trees	5.9.1																						
		Hedges	5.9.2																						
Plant Specification	5.10	Trees	5.10.1																						
		Hedges	5.10.2																						
Plant Specification	5.11	Trees	5.11.1																						
		Hedges	5.11.2																						
Plant Specification	5.12	Shrubs & Bulbs = yellow	5.12	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Plant Specification	5.13	Shrubs & Bulbs = purple / blue	5.13																						
Plant Specification	5.14	Shrubs & Bulbs = orange / red	5.14																						
Plant Specification	5.15	Shrubs & Bulbs = white / pink	5.15																						
Plant Specification	5.16	Shrubs & Bulbs = green / blue	5.16																						
Plant Specification	5.17	Shrubs & Bulbs = red	5.17																						
Plant Specification	5.18	Background Planting	5.18	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
6 HARDWORKS																									
Kerbing	6.1	Road Kerbs: PC Concrete	6.1.1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Road Edge Strips	6.2	Concrete Blocks	6.2.1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		Reclaimed Setts	6.2.2																						
		Surface Coated Colour Blocks	6.2.3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Road Surface Crossovers	6.3	All Items	6.3.1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Drainage Channels	6.4	All Items	6.4.1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Slabbed Surfacing	6.5	All Items	6.5.1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Pedestrian Surfacing	6.6	All Items	6.6.1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Key:

preferred ● acceptable ○ not acceptable □

MATRIX

Ambassador Routes		Land Use Elements		Element Number	Claverhouse				Claypotts				Esplanade				Estuary				Marketgait				Riverside				Tay Bridge
					Housing	Commercial	Industrial	Park & Recreation	Other	Housing	Commercial	Industrial	Park & Recreation	Housing	Commercial	Industrial	Park & Recreation	Housing	Commercial	Industrial	Park & Recreation	Housing	Commercial	Industrial	Park & Recreation				
Design Categories	Sheet Number																												
7 STREET FURNITURE																													
Bollards	7.1	Cycle Bollard	7.1.1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
		Low Bollard	7.1.2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
		Tall Bollard	7.1.3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
		Timber Bollard	7.1.4	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Litter Bins / Benches	7.2	All Items		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Tree Protection	7.3	All Items		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Pedestrian Guard Rails	7.4	Standard	7.4.1	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
		Non Standard	7.4.2	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
8 ROUTE COLOURS																													
Bottle Green	8.1	All Items		●	●	●	●	●																					
Wine Red	8.2	All Items							●	●	●	●																	
Jet Black	8.3	All Items											●	●	●	●													
Steel Blue	8.4	All Items															●	●	●	●									●
Blue Grey	8.5	All Items																			●	●	●	●					
9 DESIGN PRINCIPLES																													
Entrances	9.1	Utility Entrance	9.1.1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Entrances	9.2	Public Access	9.2.1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Footways	9.3	Footway Surfacing	9.3.1																										
Footways	9.4	Central Reservation	9.4.1																										
		Road Edge Refuge Strip	9.4.2																										

Key:

preferred ● acceptable ○ not acceptable □

TALL FENCES

Application: See Matrix

3.1.1 Close Boarded Timber Fence

DESCRIPTION

uses:

Screening/Housing/Boundary

materials:

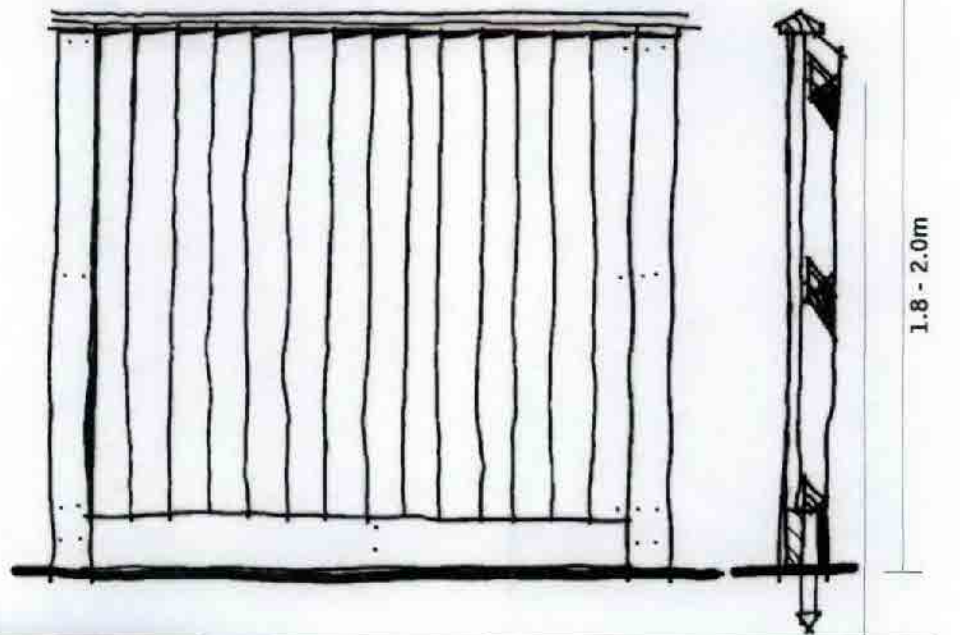
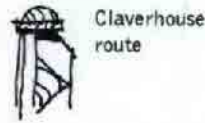
Softwood treated with impregnated preservative or hardwood. Posts mortised, arris rails tenoned, capping rebated and weathered. Posts and stub posts to be pressure treated. Panels to be feather edge boards.

finish:

Natural / treatment / finish or stained "route" colour. Feather edge boards to have concealed nailing.

cost category :

Medium / Low



3.1.2 Weldmesh

DESCRIPTION

PALADIN supplied by TWIL FENCING or similar.

uses:

Boundary/Security

materials:

Mild steel wire zinc coated. Wires welded at each intersection, with pressed beam sections to provide strength & support. Posts box section mild steel zinc coated primed for painting. Caps formed from mild steel as before to fit flush onto posts.

finish:

Posts and caps painted to a high performance specification and panels pvc coated to colour of route. Barbed tape/wire may be added in single strands through eyebolts fixed into top section of extended height posts

cost category :

Medium / Low

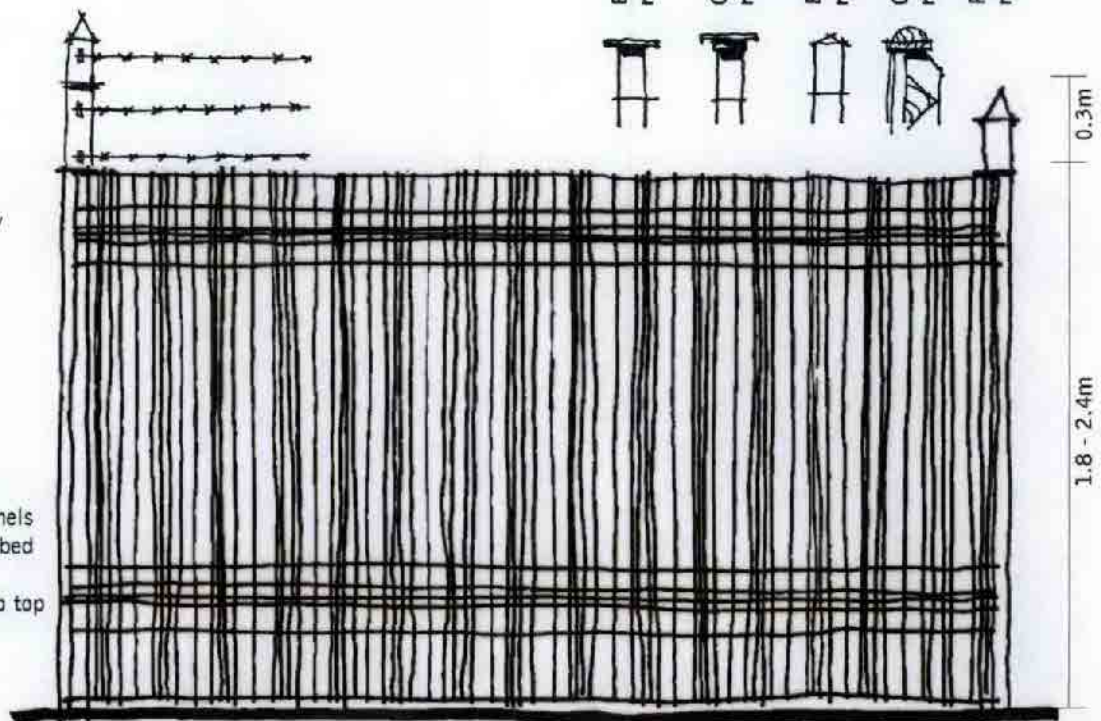
Estuary route

Claypotts route

Esplanade route

Claverhouse route

Riverside route



TALL FENCES

Sheet
3.2.

Application: All Routes

3.2.1 Metal Vertical Bar Fencing

DESCRIPTION

Metal palisade fencing supplied by BEST FENCING SYSTEMS or similar

USES:

Security/Lower cost industrial/Commercial materials:

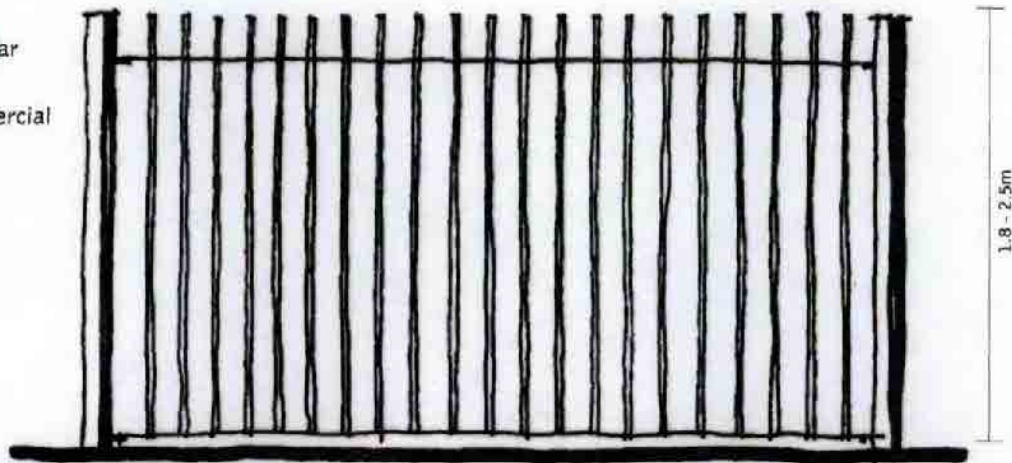
Rectangular section MS vertical palings with oblique cut tops passing through & welding horizontal beams. All hot dipped galvanised to BS729.

finish:

High quality paint specification to colour of route.

cost category :

Medium



3.2.2 Heavy Duty Profiled Metal Tube

DESCRIPTION

Camflex fencing supplied by CLAYDON ARCHITECTURAL METALWORK or similar type: CAMTWIN HEAVY WEIGHT FLEXIBLE.

USES:

Security/high visual quality Industrial/Commercial materials:

20 x 20 RHS double top & bottom rails sandwiching 33.7mm CHS bars at 12.5 mm centres.

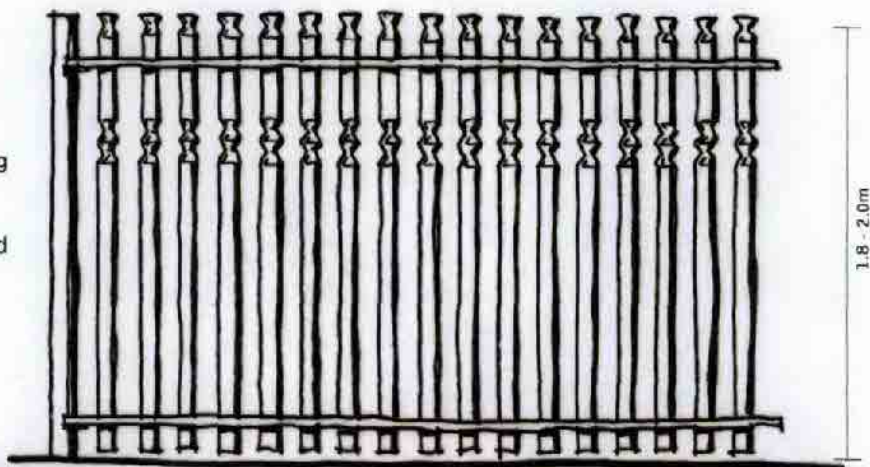
Posts 50 x 50 RHS or 60 x 60mm RHS for height above 1.5m. Bars may have single or double crushed tops & to have barley crushed pattern to suit.

finish:

High quality paint specification to colour of route.

cost category :

Medium / High



3.2.3 Light Duty Profiled Metal Tube

DESCRIPTION

Camflex fencing supplied by CLAYDON ARCHITECTURAL METALWORK or similar type: CAMTWIN LIGHT WEIGHT FLEXIBLE.

USES:

Commercial & Housing/High visual quality materials:

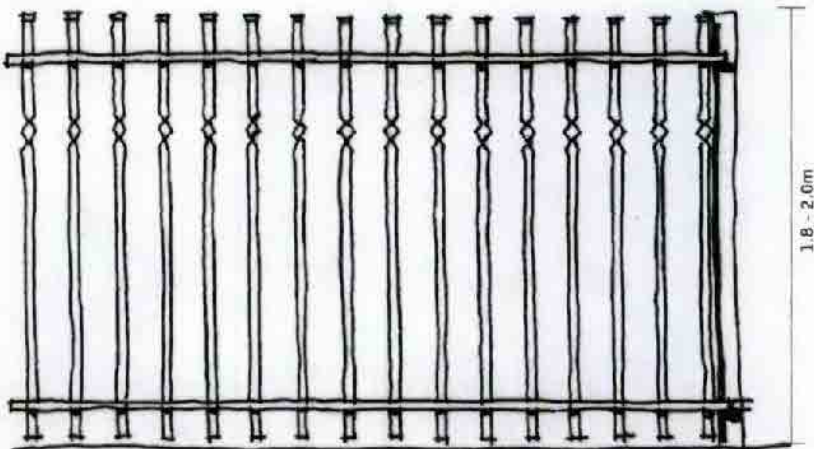
20 x 20 RHS double top and bottom rails sandwiching 26.9mm CHS bars at 125mm centres. Fixed to 50 x 50 RHS posts (60 x 60 for height above 1.5m) Bars to have single crushed tops with barley crush pattern to suit requirements.

finish:

High quality paint specification to colour of route.

cost category :

Medium / High



LOW FENCES

Sheet
3.3.

Application: All Routes

3.3.1 Light Duty Profiled Metal Tube

DESCRIPTION

Camflex fencing supplied by CLAYDON ARCHITECTURAL METALWORK or similar type: CAMTWIN HEAVY WEIGHT FLEXIBLE.

uses:

Security/high visual quality Industrial/Commercial materials:

20 x 20 RHS double top & bottom rails sandwiching 33.7mm CHS bars at 12.5 mm centres.

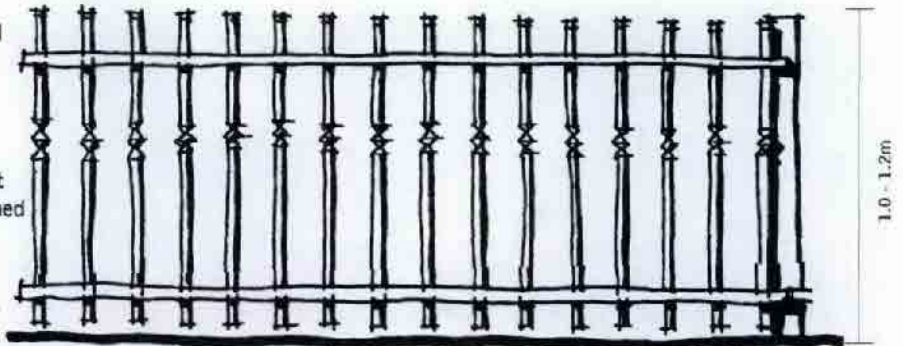
Posts 50 x 50 RHS or 60 x 60mm RHS for height above 1.5m. Bars may have single or double crushed tops & to have barley crushed pattern to suit.

finish:

High quality paint specification to colour of route.

cost category :

Medium



3.3.2 Wall Mounted Light Duty Profiled Metal

DESCRIPTION

Same as LDP metal tube.

Gates to match fence.

uses:

Housing/Medium quality/Commercial

materials:

20 x 20 RHS double top & bottom rails sandwiching 33.7mm CHS bars at 12.5 mm centres.

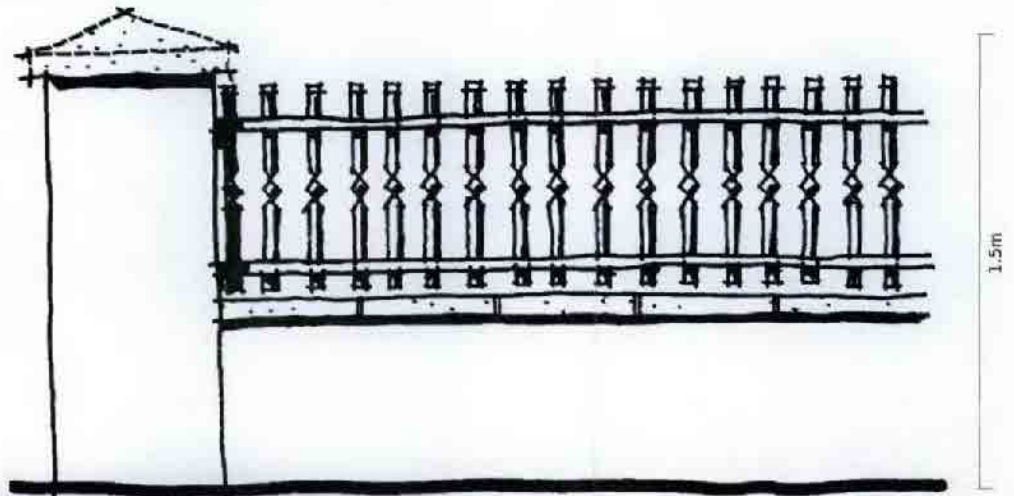
Posts 50 x 50 RHS or 60 x 60mm RHS for height above 1.5m. Bars may have single or double crushed tops & to have crushed pattern to :

finish:

High quality paint specification to colour of route.

cost category :

Medium



3.3.3 Wall Mounted Vertical Metal Bar

DESCRIPTION

Same as Tall Fence Vertical Metal Bar.

Gates to match fence.

uses:

Housing/Medium quality/Commercial

materials:

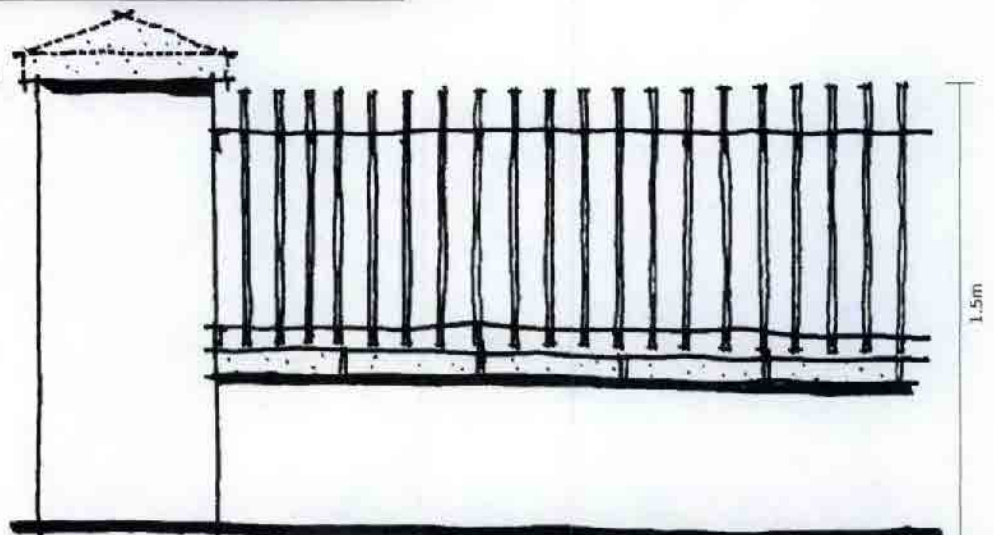
Rectangular section MS vertical palings with oblique cut tops passing through & welding horizontal beams. All hot dipped galvanised to BS729.

finish:

High quality paint specification to colour of route.

cost category :

Medium / Low



LOW FENCES

Sheet
3.4.

Application: All Routes

3.4.1 Metal Estate Fencing

DESCRIPTION

uses:

Parks & recreation/High Quality

materials:

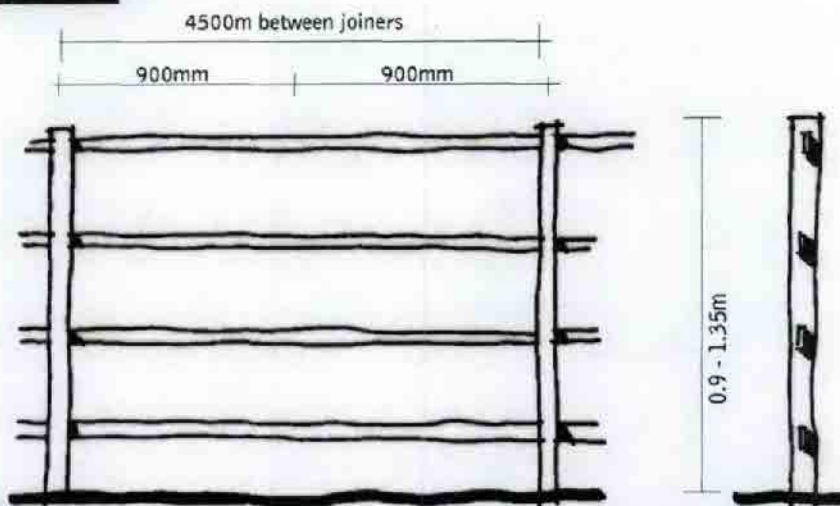
Mild steel rails, posts and joiners. Joiners to be more substantial than posts. Posts, rails and joiners to be flat bar, top rail to be tubular section. 3 rails to be used up to 1.05m high. Enables clear visibility.

finish:

Tops of posts and joiners to be shaped to "route" shape, all metalwork to be painted using high performance paint specification to "route" colour. Lower rails should be closer spaced than uppers

cost category :

Low / Medium



3.4.2 Post & Wire Fence

DESCRIPTION

uses:

Parks & recreation/Lower Quality

materials:

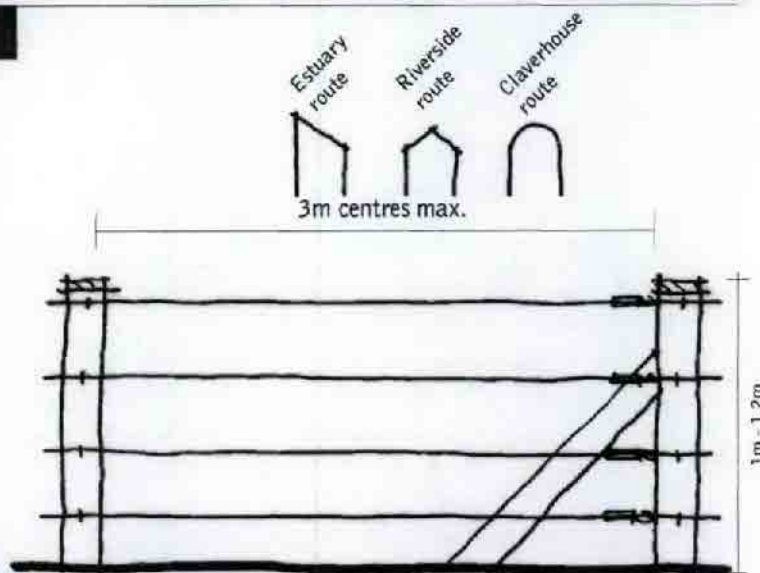
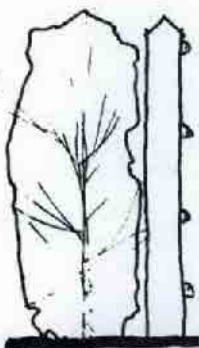
Timber posts and straining / end posts impregnated softwood. 4 galvanised wire strands with galvanised strainers, stapled to posts. End posts, every eighth intermediate post and posts at change of direction to be braced.

finish:

Timber to be stained, use black or navy "route" colour. Post caps to be weathered to suit route as shown.

cost category :

Low



3.4.3 Metal Tubular Hoop Top Railing

DESCRIPTION

TUBULAR BOWTOP FENCE supplied by H.S JACKSON & SON (FENCING) or similar.

uses:

See Matrix / Housing / Front Garden Boundaries

materials:

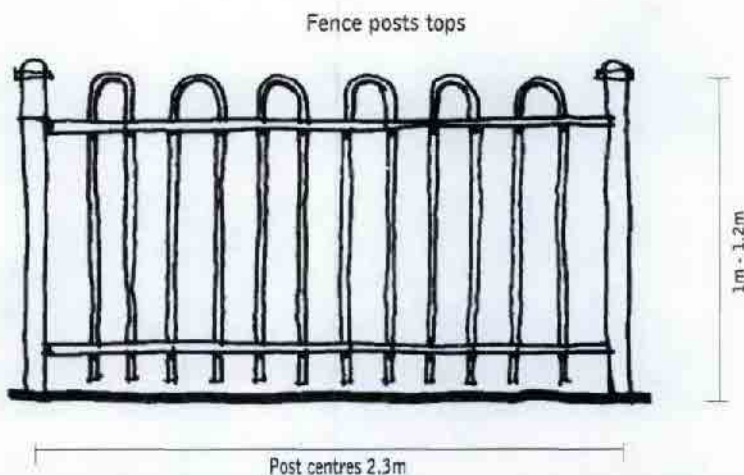
Hot dipped galvanised mild steel to BS729, posts to be tubular mild steel 60.3mm diameter, 1.7m for 1m high or 1.9m for 1.2m high & capped with 700mm set in concrete. Rails 50 x 25 x 2.24m, 19mm diameter tubular infill.

finish:

High quality paint specification to route colour.

cost category :

Medium



Part 4

WALLS & COPES
PILLARS & CAPS*Contents*

<i>Sheet</i>	<i>Title</i>	<i>Ref No.</i>	<i>Item</i>
4.1.	Walls & Copes	4.1.1	Stone Walls : Dressed Coursed
		4.1.2	Stone Walls : Squared Random Coursed
		4.1.3	Stone Walls : Random Coursed
		4.1.4	Rendered Walls
4.2.	Walls & Copes	4.2.1	Concrete: Coloured & Exposed Aggregate
		4.2.2	Concrete Retaining Wall
4.3.	Pillars	4.3.1	Stone Pillars - Dressed and Coursed
		4.3.2	Stone Pillars - Squared Random Coursed
4.4.	Pillars	4.4.1	Stone Pillars - Random Coursed Rubble
		4.4.2	Cast Stone Pillars

Part 4**WALLS & COPES
PILLARS & CAPS***Contents*

<i>Sheet</i>	<i>Title</i>	<i>Ref No.</i>	<i>Item</i>
4.5.	Caps	4.5.1	Rounded Cap
		4.5.2	Two Tier Flat Cap
		4.5.3	Flat & Weathered Cap
4.6.	Caps	4.6.1	Pointed Cap
		4.6.2	Pyramid Cap
		4.6.3	Flat Cap

WALLS AND COPES

Sheet
4.1.

Application: Refer To Matrix

4.1.1 Stone : Dressed Coursed

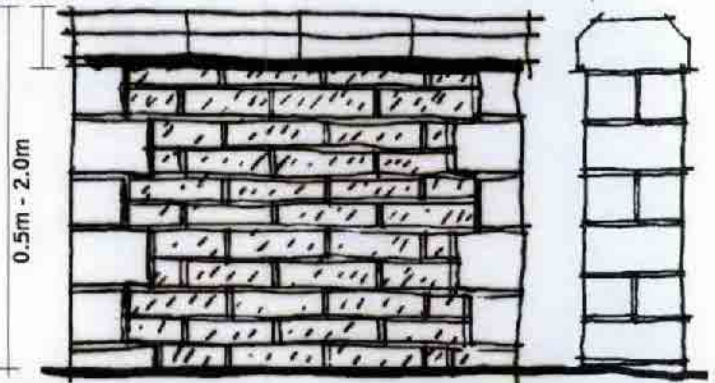
DESCRIPTION

materials: Natural stone, new or reclaimed to be sandstone from local homogenous sources. Random sized and squared. Capping stones to be shaped or random from similar source and set on edge with nominal overhangs 50mm.

finish: Reclaimed stone to be split / dressed / cleaned to expose new face if previously painted. Colour range buff/pink/brown.

cost : High

Min height of cope 250mm or max 20% of wall height.



4.1.2 Stone : Squared Random Coursed

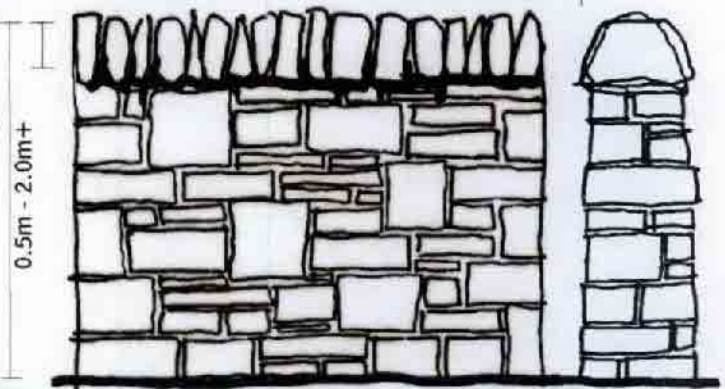
DESCRIPTION

materials: Natural stone, new or reclaimed, to be sandstone from local homogenous sources. Regular coursed / sized / random sized / blocks as available, with matching or contrasting corner stones. Capping to be sawn sandstone or dressed & shaped new / reclaimed

finish: Reclaimed stone to be cleaned to expose matching face if painted. Colour range buff/pink/brown.

cost : Medium/high

Cope height not more than 10% of wall height



4.1.3 Stone : Random Coursed Rubble

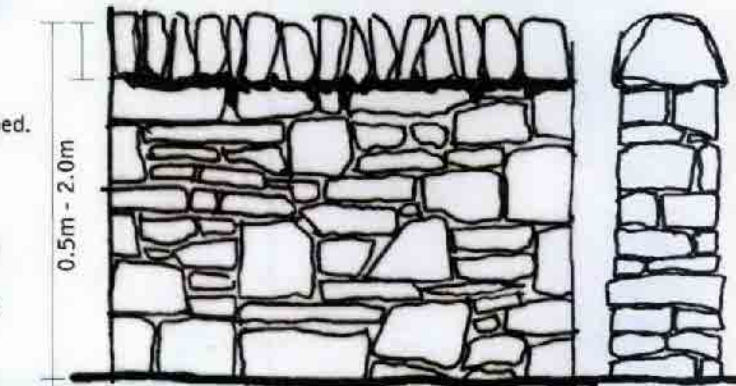
DESCRIPTION

materials: Natural stone, new or reclaimed sandstone from local homogenous sources. Random sized and shaped. Capping stones to be from similar source and set on edge with nominal overhangs 50mm.

finish: Reclaimed stone to be split / cleaned to expose new face if painted. Colour range buff/pink/brown with stone from homogenous sources. Random coursing to always be brought to level. Stone sizes to be set randomly with selected corner stones.

cost : Medium

Min height cope 250mm or max 20% of wall height



4.1.4 Rendered

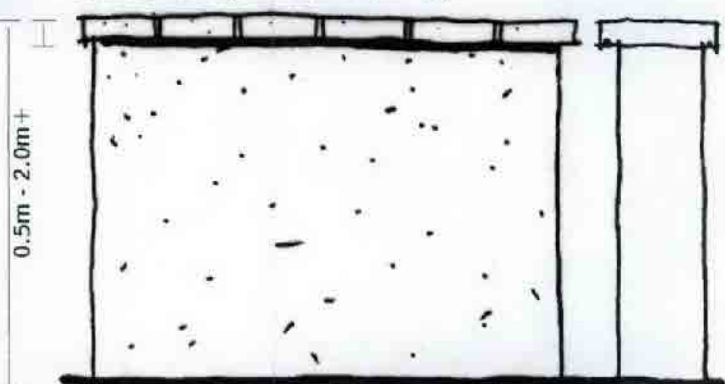
DESCRIPTION

materials: Block work construction with rendered finish, copes flat sawn stone / cast stone or suitable slab sawn to size.

finish: White cement render with selected aggregate or grey cement with colour wash, copes: stone, colour concrete or to compliment wall finish buff/pink/brown.

cost : Low

Min 50mm height or 5% of wall height



WALLS AND COPES

Sheet
4.2.

Application: Refer To Matrix

4.2.1 Concrete: Coloured & Exposed Aggregate

DESCRIPTION

Precast colour concrete block walls and cast stone copes, coloured to match.

materials:

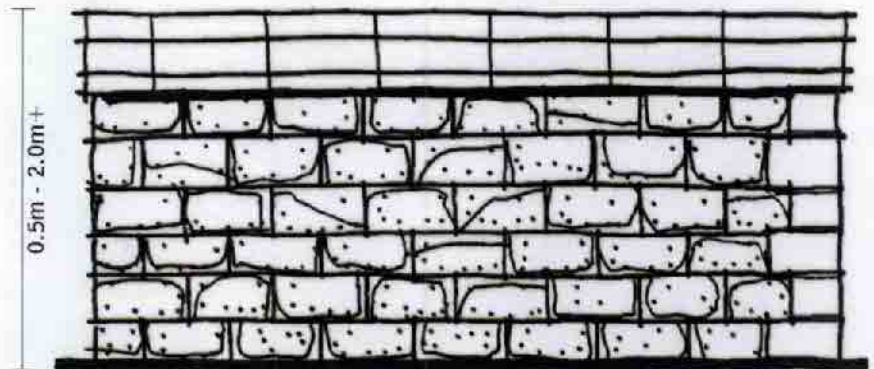
Colour concrete units, to give riven appearance, colour may be Buff / Red to match existing retaining walls within the inner ring road.

finish:

Colour concrete units to be split faced to expose decorative granite aggregate. Copes to be smooth cast stone.

cost :

Medium



4.2.2 Concrete Retaining Walls

DESCRIPTION

REVELOK gravity retaining wall system supplied by MARSHALLS or similar.

materials:

High quality concrete units laid and assembled in bonding patterns as necessary for structural capacity & fitted with coping unit.

finish:

Buff / Red coloured concrete units to match existing Marketgait retaining walls, with split faced finish.

cost :

Medium



PILLARS

Sheet
4.3.

Application: Refer To Matrix

4.3.1 Stone - Dressed and Coursed Stone

DESCRIPTION

Coursed construction

materials:

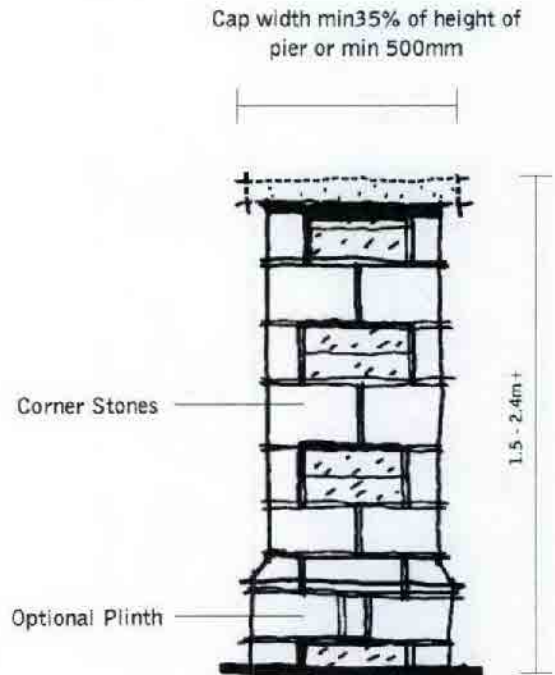
Reclaimed or new natural stone, random squared / dressed including corner stones to all sides.

finish:

Natural stone to be sandstone from homogenous source, colour buff / brown / pink, surface finish to be split face, dressed (or tooled finish for corner stones) as appropriate for location or as available for reclaimed stone.

cost category :

High



4.3.2 Stone - Squared Random Coursed

DESCRIPTION

materials:

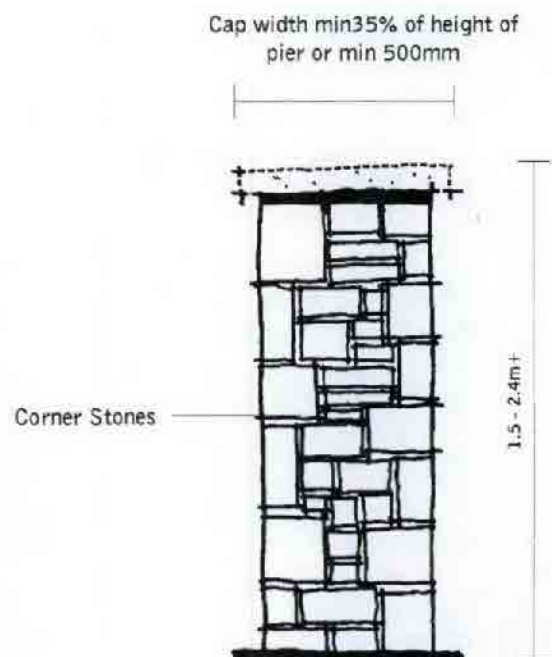
Reclaimed or new natural stone, squared / dressed corner stones and squared random coursed infill panels to all sides.

finish:

Natural stone to be sandstone from homogenous source colour, buff / brown / pink, surface finish to be split face, dressed (or tooled finish for corner stones) as appropriate for location or as available for reclaimed stone.

cost category :

Medium / High



PILLARS

Sheet
4.4.

Application: Refer To Matrix

4.4.1 Stone - Random Coursed Rubble

DESCRIPTION

materials:

Natural reclaimed or new natural sandstone local and from homogenous source, random squared infill material / dressed corner stones.

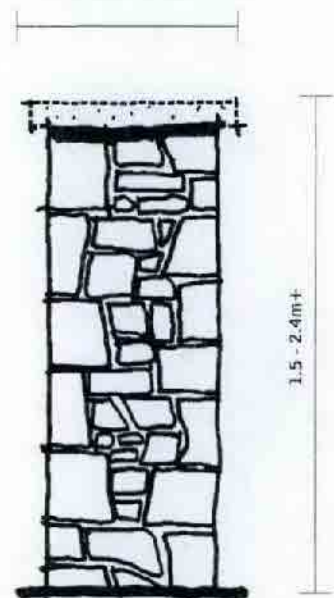
finish:

Squared and dressed corner stones & random coursed infill.

cost category :

Medium

Cap width min35% of height of pillar or min 500mm



4.4.2 Cast Stone / Colour Concrete

DESCRIPTION

materials:

Cast stone facing, or colour concrete split faced. Type of finish to be selected to match wall to which attached.

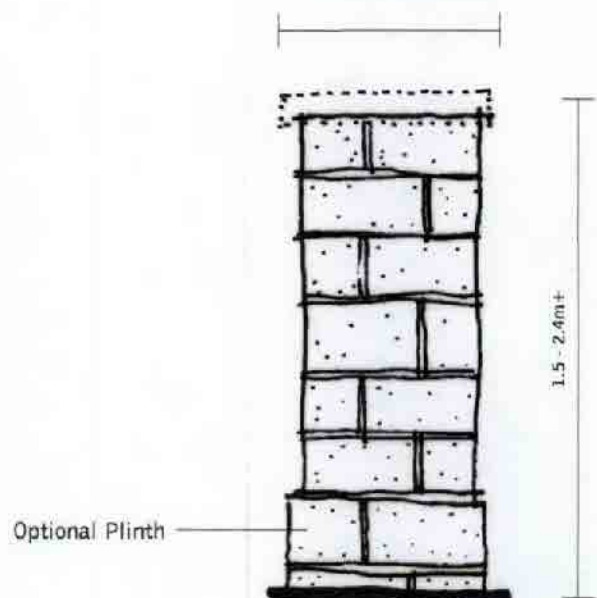
finish:

Cast stone to be sandstone colour and texture, colour range to be (typically) buff / brown / pink to match local sandstone. Colour concrete to be split faced to expose decorative aggregate.

cost category :

Low/Medium

Cap width min35% of height of pillar or min 500mm



CAPS

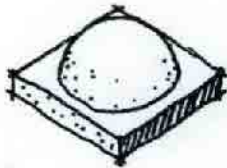
Sheet
4.5.

Application: See Below And Refer To Matrix

4.5.1 Rounded Cap

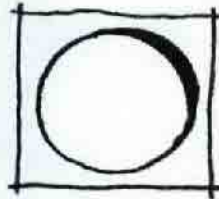
Claverhouse

sketch view



Min 200mm from underside of cap to top of wall cope or 1:5 of wall & cope height.

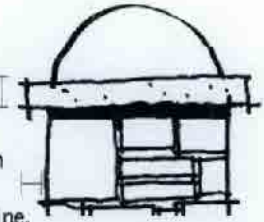
plan



Cap width min 45% of height of pier or min 600mm

Capping slab min 100mm

Min 50mm overhang with drip line.



3 x capping slab

4.5.2 Two Tier Flat Cap

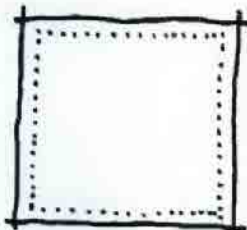
Claypotts

sketch view



Min 200mm from underside of cap to top of wall cope or 1:5 of wall & cope height.

plan



Cap width min 45% of height of pier or min 600mm

Capping slab min 100mm

Min 50mm overhang with drip line.

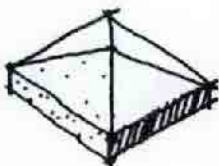


2 x capping slab
thickness 100mm min
or 1:7 thickness/width

4.5.3 Flat & Weathered Cap

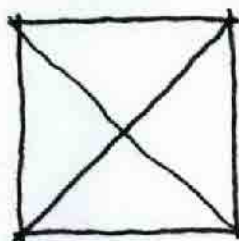
Esplanade

sketch view



Min 200mm from underside of cap to top of wall cope or 1:5 of wall & cope height.

plan



Cap width min 45% of height of pier or min 600mm

Capping slab min 100mm

Min 50mm overhang with drip line.



2 x capping slab

Specification Notes

materials:

Natural sandstone / cast stone.

finish:

Sandstone colour and texture to match pillar material.

cost category :

High / Medium

CAPS

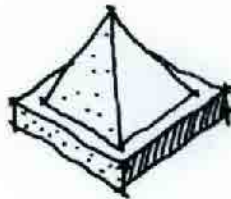
Sheet
4.6.

Application: See Below And Refer To Matrix

4.6.1 Pointed Cap

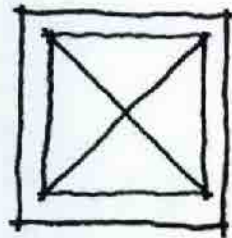
Riverside

sketch view



Min 200mm from underside of cap to top of wall cope or 1:5 of wall & cope height.

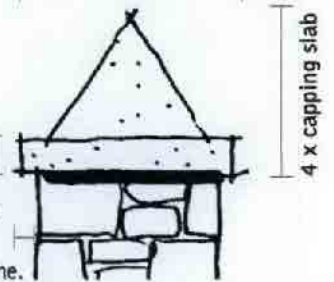
plan



Cap width min 45% of height of pier or min 600mm

Capping slab min 100mm

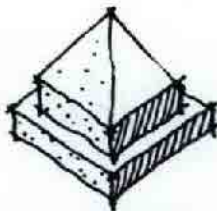
Min 50mm overhang with drip line.



4.6.2 Pyramid Cap

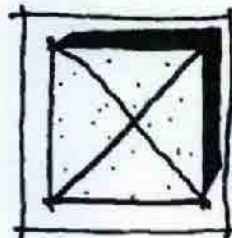
Marketgait

sketch view



Min 200mm from underside of cap to top of wall cope or 1:5 of wall & cope height.

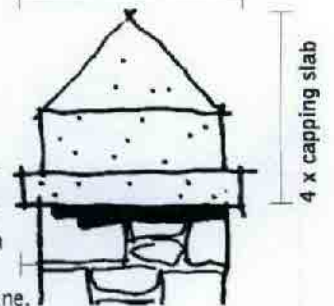
plan



Cap width min 45% of height of pier or min 600mm

Capping slab min 100mm

Min 50mm overhang with drip line.



4.6.3 Flat Cap

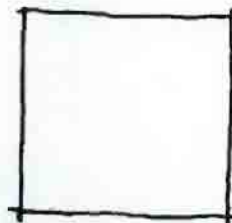
Estuary

sketch view



Min 200mm from underside of cap to top of wall cope or 1:5 of wall & cope height.

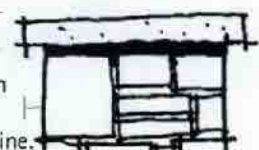
plan



Cap width min 45% of height of pier or min 600mm

Capping slab min 100mm

Min 50mm overhang with drip line.



Cap thickness min 100mm or 1:7 ratio thickness/width

Specification Notes

materials:

Natural stone / cast stone.

finish:

Sandstone colour and texture to match pillar material.

cost category :

High / Medium

Part 5

SOFT WORKS
GENERAL GUIDANCE*Contents*

<i>Sheet</i>	<i>Title</i>	<i>Ref No.</i>	<i>Item</i>
5.1	Planting - Type and Function	5.1.1	Large Shrubs
		5.1.2	Medium Shrubs
5.2	Planting - Type and Function	5.2.1	Groundcover Shrubs
		5.2.2	Climbing Plants
5.3	Planting - Type and Function	5.3.1	Bulbs
		5.3.2	Trees and Hedges
5.4	Grass Seeding	5.4.1	High Amenity Seeding
		5.4.2	General Amenity Seeding
		5.4.3	Seeding for Shaded Areas
		5.4.4	Seeding for Coastal Sites
		5.4.5	Maintenance
5.5	Turfing	5.5.1	High Amenity Areas
		5.5.2	General Amenity Areas
		5.5.3	Shaded Areas
		5.5.4	Maintenance

Part 5

SOFT WORKS
ROUTE SPECIFIC*Contents*

<i>Sheet</i>	<i>Title</i>	<i>Item</i>
5.6	Claverhouse	5.6.1 Trees
		5.6.2 Hedges
5.7	Claypotts	5.7.1 Trees
		5.7.2 Hedges
5.8	Esplanade	5.8.1 Trees
		5.8.2 Hedges
5.9	Estuary	5.9.1 Trees
		5.9.2 Hedges
5.10	Marketgait	5.10.1 Trees
		5.10.2 Hedges
5.11	Riverside	5.11.1 Trees
		5.11.2 Hedges

Part 5**SOFT WORKS
ROUTE SPECIFIC***Contents*

<i>Sheet</i>	<i>Title</i>	<i>Item</i>
5.12	Shrubs and Bulbs	5.12.1 Claverhouse
5.13	Shrubs and Bulbs	5.13.1 Claypotts
5.14	Shrubs and Bulbs	5.14.1 Esplanade
5.15	Shrubs and Bulbs	5.15.1 Estuary
5.16	Shrubs and Bulbs	5.16.1 Marketgait
5.17	Shrubs and Bulbs	5.17.1 Riverside
5.18	Shrubs and Bulbs	5.18.1 General Background Planting

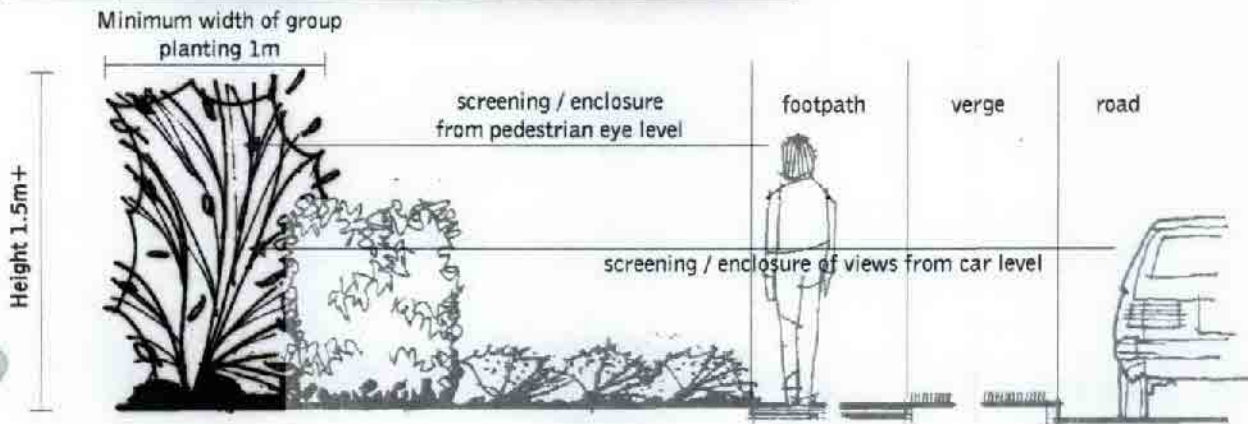
SOFT WORKS

Planting - Type & Function

Sheet
5.1.

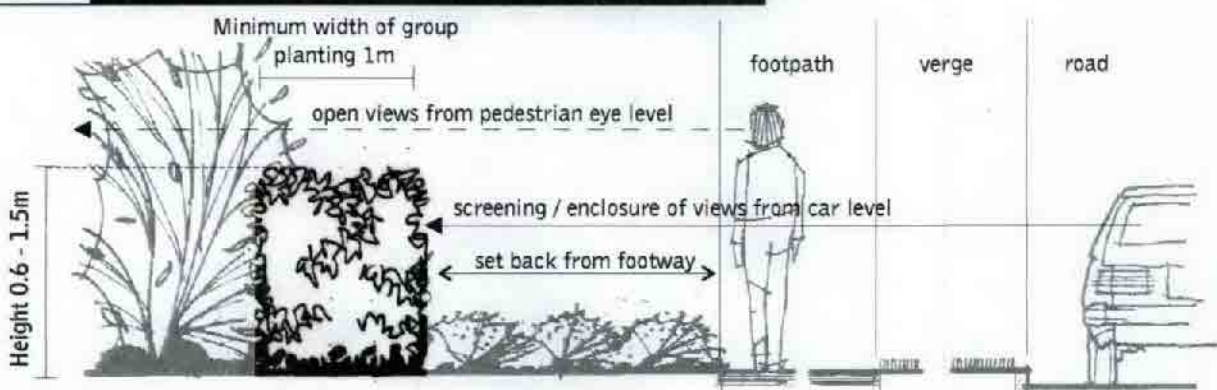
Application: all routes

5.1.1. Large Shrubs



- security/safety:**
- Set back large shrubs to ensure road sightlines and intervisibility are not disrupted.
 - Ensure passive surveillance is maintained and do not place close to footway.
 - Place within centre of bed where bed is exposed on both sides.
- amenity:**
- Use to screen undesirable views and to provide privacy.
 - Good boundary definition
- environment:**
- May reduce wind and noise
 - Provides visual buffer/enclosure

5.1.2. Medium Shrubs



- security/safety:**
- Set back medium shrubs to ensure junction sightlines/intervisibility are not disrupted.
 - Ensure passive surveillance is maintained.
- amenity:**
- Does not form enclosure but provides some edge definition.
 - Enables desirable and attractive views.
- environment:**
- Introduces frontage colour and texture.

SOFT WORKS

Planting - Type & Function

Sheet
5.2.

Application: all routes

5.2.1. Groundcover Shrubs



security/safety:

- May be planted within junction sightline / intervisibility splay / in front of signs as falls within minimum height restriction.

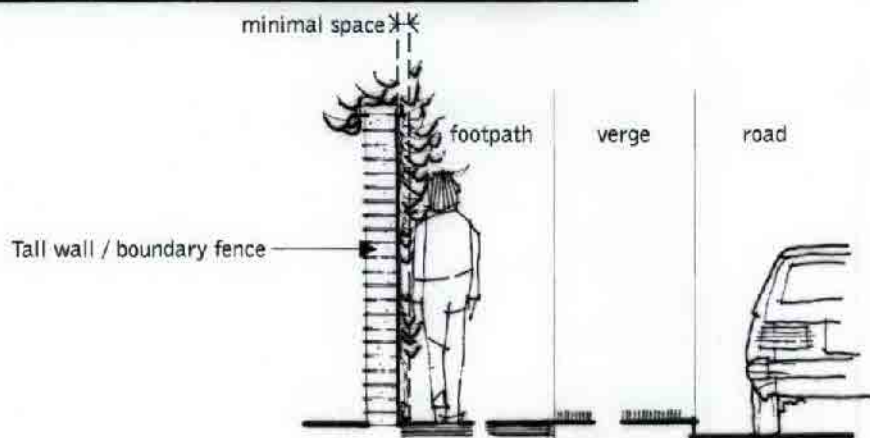
amenity:

- Achieves minimum of site definition.
- Enables full and unrestricted desirable views and provides minimal physical barrier.

environment:

- Introduces some frontage colour and texture.
- Best protected by fence to deter pedestrian shortcutting.

5.2.2. Climbing Plants



security/safety:

- May be grown over tall walls / fences without impeding sightlines / intervisibility.

amenity:

- Can provide 'softening' element to tall walls / fences in confined spaces where shrub planting is restricted.

environment:

- Provides vegetation in confined areas.

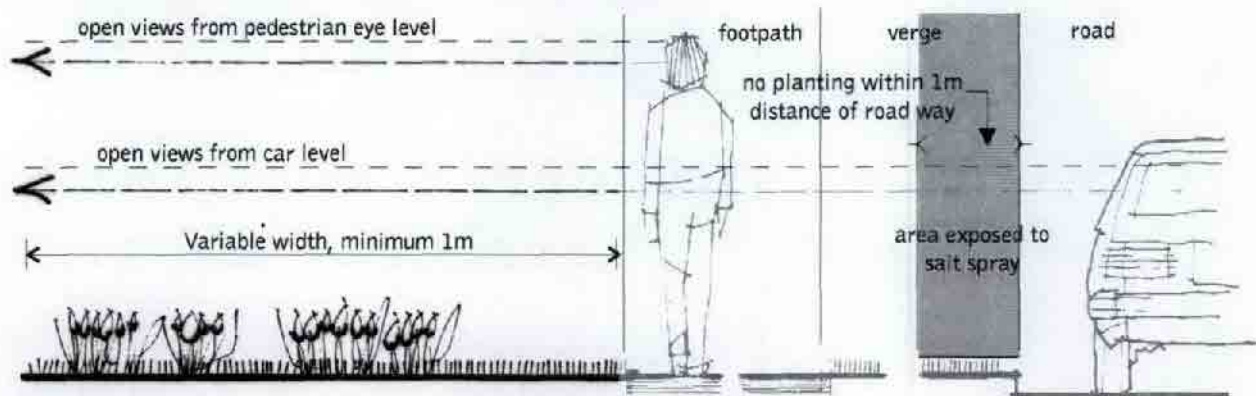
SOFT WORKS

Planting - Type & Function

Sheet
5.3.

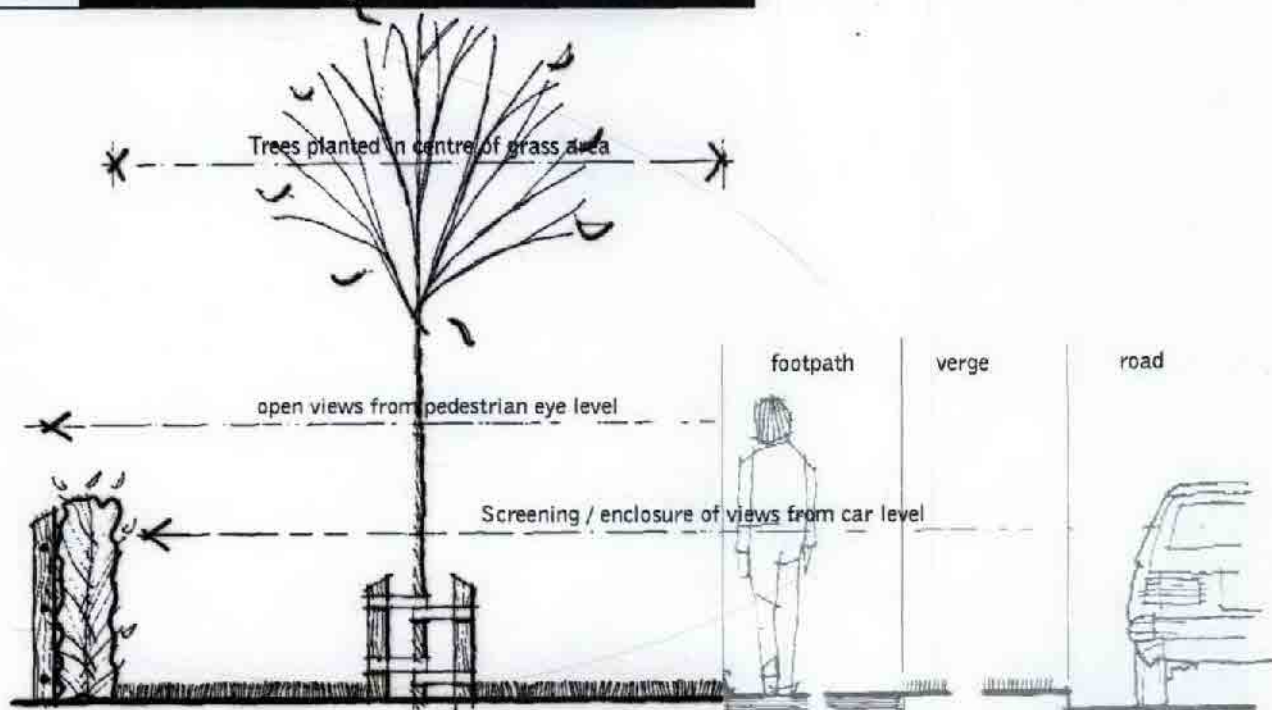
Application: all routes

5.3.1 Bulbs



- security/safety: ● Permits full visibility and site surveillance.
- amenity: ● Provides seasonal colour and fully open frontage.
- environment: ● Increases seasonal diversity.

5.3.2 Trees and Hedges



- security/safety: ● Trees set back from road edge to ensure safety of pedestrians.
● Trees / hedges planted outwith visibility splays.
- amenity: ● Trees and hedges may screen undesirable views and provide privacy.
● Provide good boundary definition.
- environment: ● May reduce wind and noise.
● Provides visual buffer / enclosure.

SOFT WORKS

Grass Seeding

Sheet
5.4.

Application: All Routes

5.4.1 High Amenity Seeding

DESCRIPTION:

<i>Festuca longifolia</i>	30% (cert)
<i>Lolium perenne</i>	25% (cert)
<i>Festuca rubra rubra</i>	20% (cert)
<i>Poa pratensis</i>	10% (cert)
<i>Agrostis castellana</i>	10% (cert)
<i>Trifolium repens</i>	5% (cert)

application:

areas where high quality, durable and close cut grass sward is required.

mowing height:

10mm

sowing rate:

20g/m²

cost:

High

5.4.2 General Amenity Seed Mixture

DESCRIPTION:

<i>Festuca rubra rubra</i>	30% (cert)
<i>Festuca rubra commutata</i>	25% (cert)
<i>Lolium perenne 'Lisabelle'</i>	15% (cert)
<i>Lolium perenne 'Juwell'</i>	15% (cert)
<i>Poa pratensis</i>	10% (cert)
<i>Agrostis castellana</i>	5% (cert)

application:

Suitable for most locations and uses

mowing height:

12-20mm

sowing rate:

25-35g/m²

cost:

Medium

5.4.3 Mixture for Shaded Areas

DESCRIPTION:

<i>Festuca rubra rubra</i>	40% (cert)
<i>Festuca rubra commutata</i>	30% (cert)
<i>Poa pratensis</i>	10% (cert)
<i>Poa nemoralis</i>	10% (cert)
<i>Agrostis castellana</i>	10% (cert)

application:

Shaded and damp areas

mowing height:

25mm

sowing rate:

35-50g/m²

cost:

Medium

5.4.4 Coastal Sites

DESCRIPTION:

<i>Festuca rubra litoralis</i>	25% (cert)
<i>Festuca rubra rubra</i>	20% (cert)
<i>Festuca longifolia</i>	20% (cert)
<i>Lolium perenne 'Juwell'</i>	15% (cert)
<i>Poa pratensis</i>	10% (cert)
Salt Marsh Grass	5% (cert)
<i>Agrostis stolonifera</i>	2.5% (cert)
<i>Agrostis castellana</i>	2.5% (cert)

application:

Exposed areas subject to salt spray and salt-laden winds.

mowing height:

20mm

sowing rate:

12.5-20g/m²

cost:

Low

5.4.5 Maintenance

mowing heights: As indicated for each mix

frequency: Minimum of 14 visits per season increased as necessary to maintain good condition.

SOFT WORKS

Turfing

Sheet
5.5.

Application: All Routes

5.5.1 High Amenity Areas

DESCRIPTION:

15% *dwarf perennial ryegrass*
 20% *creeping red fescue*
 20% *slender red fescue*
 20% *chewings fescue*
 15% *smooth staked meadow grass*
 10% *browntop bent*

quality:

To BS3969:1990, Grade 1

application:

Quality landscape

soil:

Loam

cut size (approx.):

40cm x 1.5m, 25-35mm thick (uniform)

mowing height:

10mm

cost:

High

5.5.2 General Amenity Areas

DESCRIPTION:

25% *dwarf perennial ryegrass*
 30% *smooth staked meadow grass*
 25% *slender creeping red fescue*
 20% *chewings fescue*

quality:

To BS3969:1990, Grade 3

application:

Well used amenity areas where low maintenance is an advantage.

soil:

Loam

cut size (approx.):

40cm x 1.5m, 25-35mm thick (uniform)

mowing height:

12-20mm

cost:

High

5.5.3 Shaded Areas

DESCRIPTION:

35% *chewings fescue*
 35% *slender red fescue*
 20% *smooth staked meadow grass*
 10% *browntop bent*

quality:

To BS3969:1990, Grade 2

application:

Shaded, damp and low maintenance areas, or those with some salt exposure

soil:

Loam

cut size (approx.):

40cm x 1.5m, 25-35mm thick (uniform)

mowing height:

15-25mm

cost:

High

5.5.4 Maintenance

mowing heights:

As indicated for each mix

frequency:

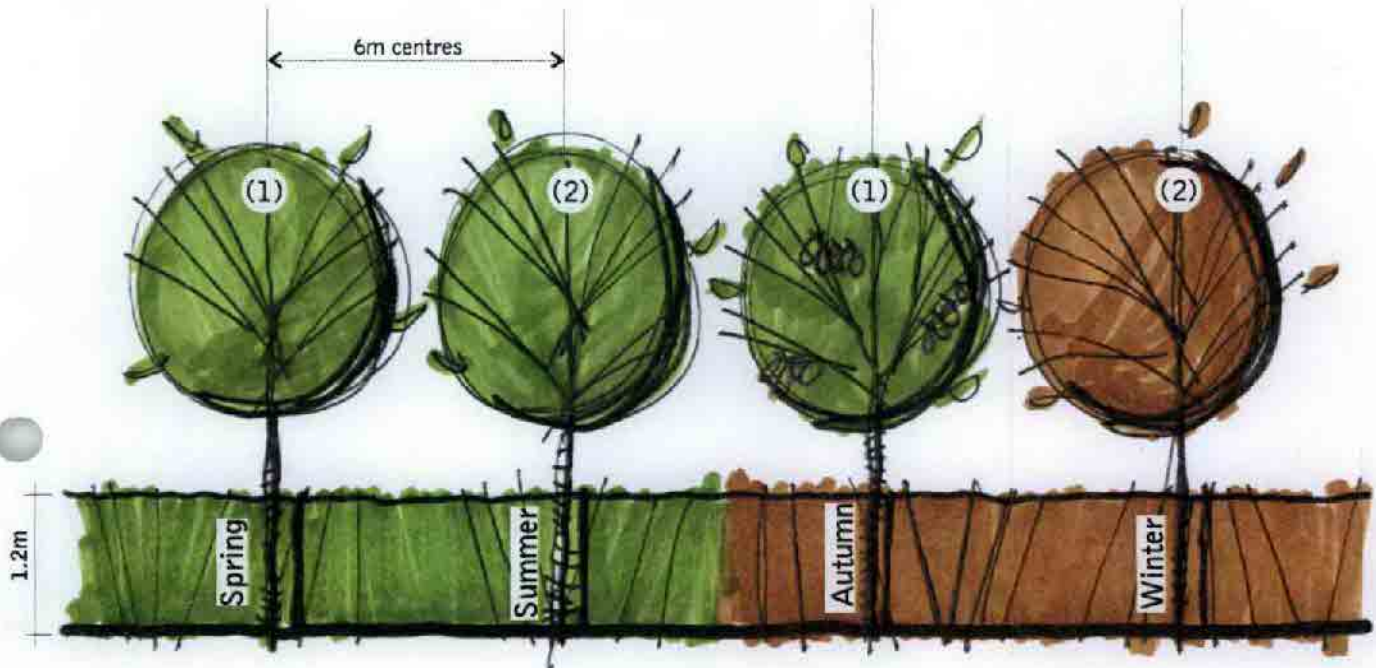
Minimum of 14 visits per season increased as necessary to maintain good condition.

SOFT WORKS

Trees and Hedges

Sheet
5.6.

Application: Claverhouse



5.6.1 Trees

- tree species: 1) Sorbus Joseph Rock'
2) Fagus sylvatica
- planting size: 14-16cm girth (minimum)
- support: Double staked with square timber posts,
(100 x 100mm) & 2 no. rubber tree ties

5.6.2 Hedges

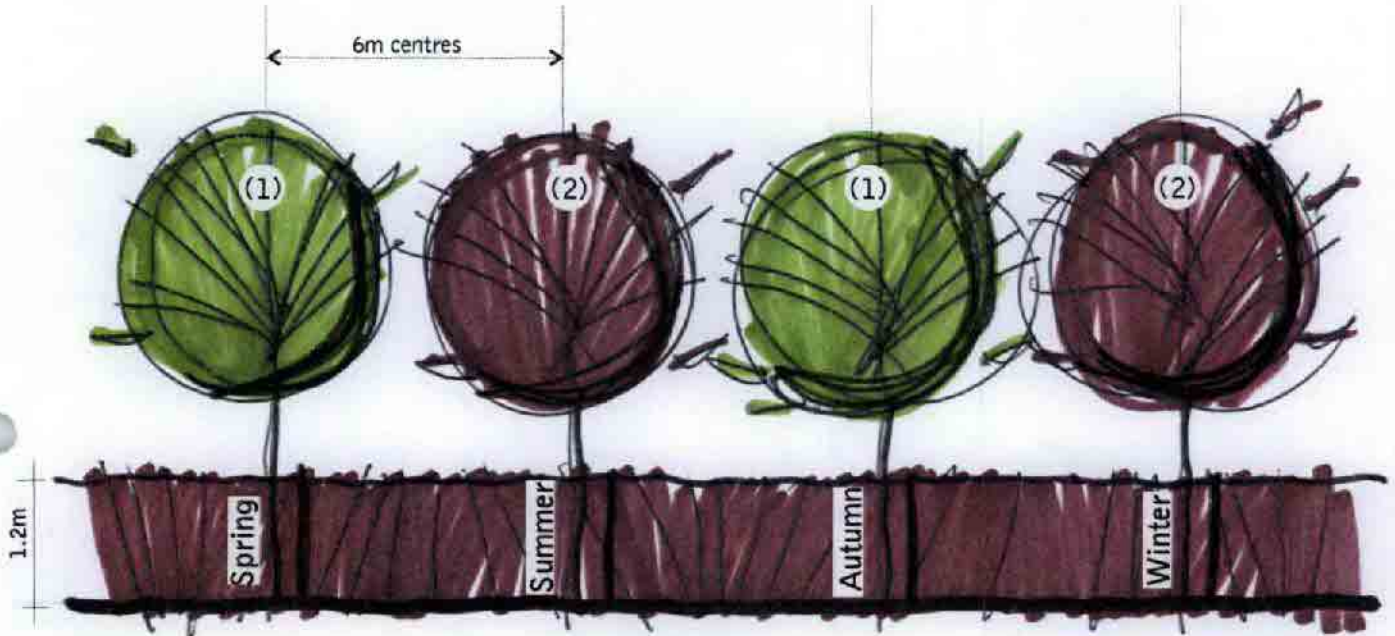
- hedge species: Fagus sylvatica
- planting size: 600-900mm transplants
- density: double staggered row at 325mm centres,
250mm apart
- maintenance: will form a formal hedge, 1-2m in height, requiring substantial pruning and
shaping in the first few years of establishment.
Work should be undertaken by an experienced maintenance contractor.

SOFT WORKS

Trees and Hedges

Sheet
5.7.

Application: Claypotts



5.7.1 Trees

- tree species: 1) *Acer platanoides* 'Emerald Queen'
2) *Fagus sylvatica* 'Purpurea'
- planting size: 14-16cm girth (minimum)
- support: Double staked with square timber posts, (100 x 100mm) & 2 no. rubber tree ties
- maintenance: Ensure adequate watering during establishment period and any subsequent drought periods.

5.7.2 Hedges

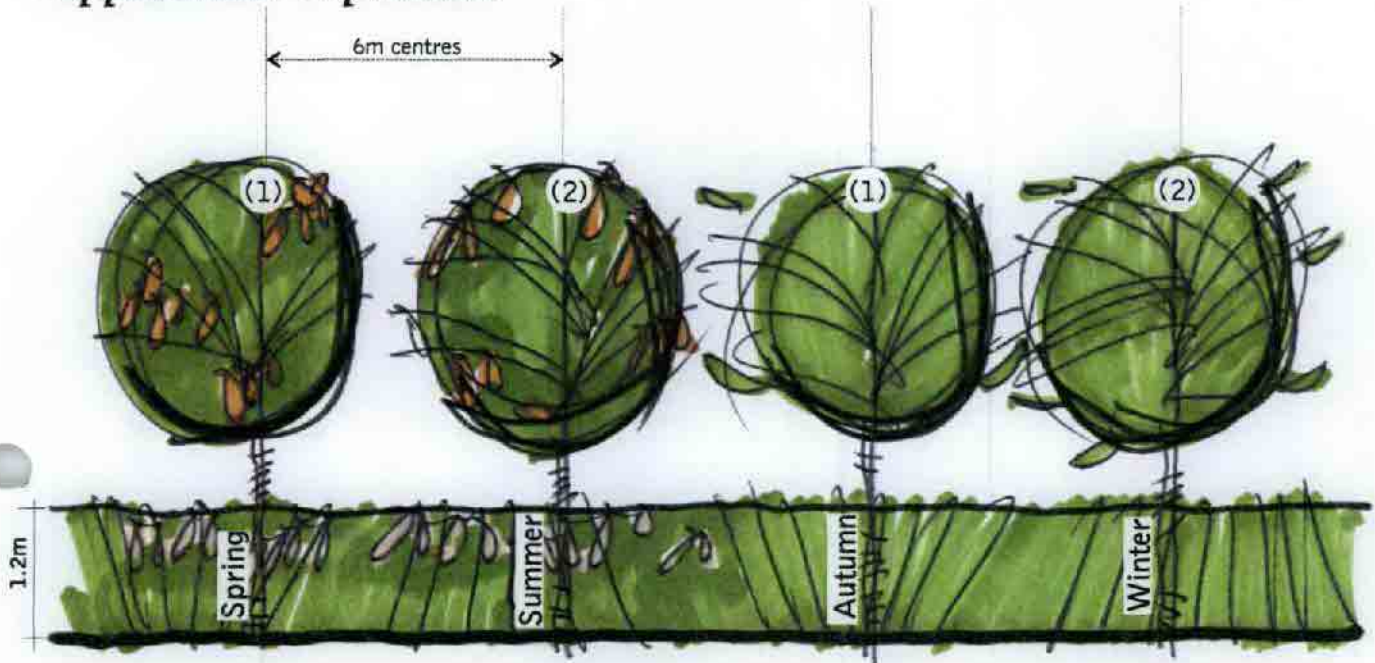
- hedge species: *Fagus sylvatica* 'Purpurea'
- planting size: 600-800mm transplants
- density: double staggered row at 325mm centres, 250mm apart
- maintenance: will form a formal hedge, 1-2m in height, requiring substantial pruning and shaping in the first few years of establishment. Work should be undertaken by an experienced maintenance contractor.

SOFT WORKS

Trees and Hedges

Sheet
5.8.

Application: Esplanade



5.8.1 Trees

- tree species: *Sorbus intermedia* ^
- planting size: 14-16cm girth (minimum)
- support: Double staked with square timber posts, (100 x 100mm) & 2 no. rubber tree ties

5.8.2 Hedges

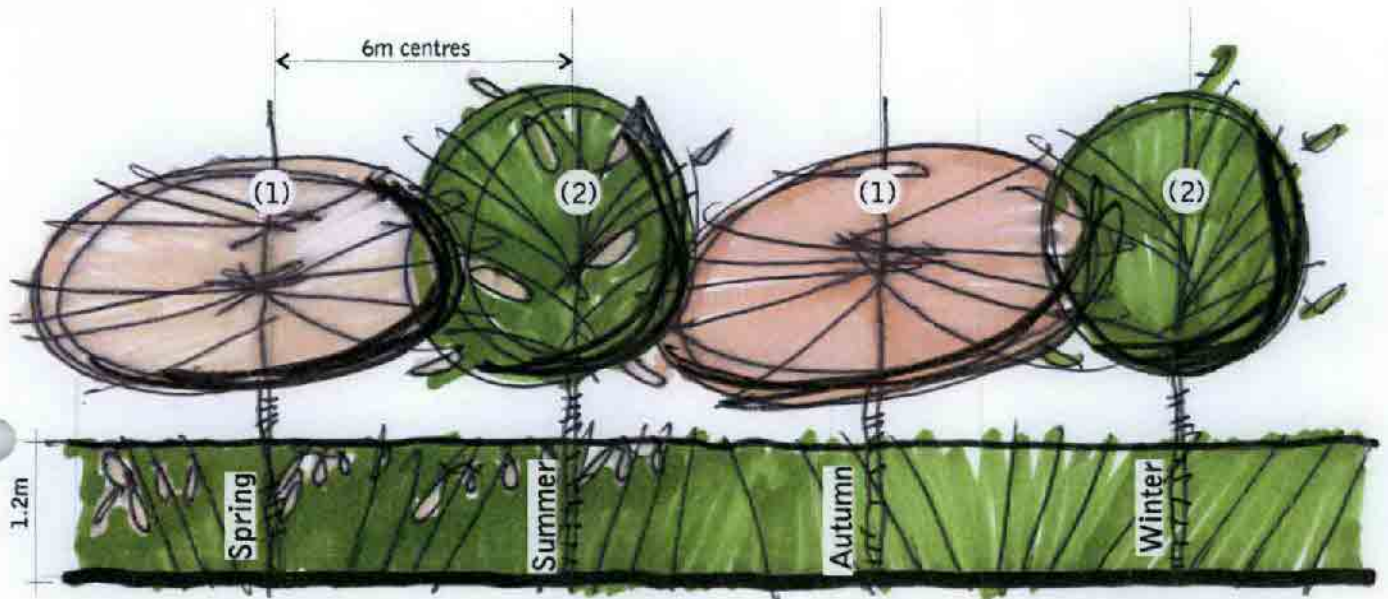
- hedge species: *Crataegus monogyna*
- planting size: 600-800mm transplants
- density: double staggered row at 325mm centres, 250mm apart
- maintenance: will form a formal hedge, 1-2m in height, requiring substantial pruning and shaping in the first few years of establishment. Work should be undertaken by an experienced maintenance contractor.

SOFT WORKS

Trees and Hedges

Sheet
5.9.

Application: Estuary



5.9.1 Trees

- tree species: 1) *Prunus sargentii*
2) *Sorbus huphensis*
- planting size: 1) 12-14cm girth (minimum)
2) 14-16cm girth (minimum)
- support: Double staked with square timber posts, (100 x 100mm) & 2 no. rubber tree ties

5.9.2 Hedges

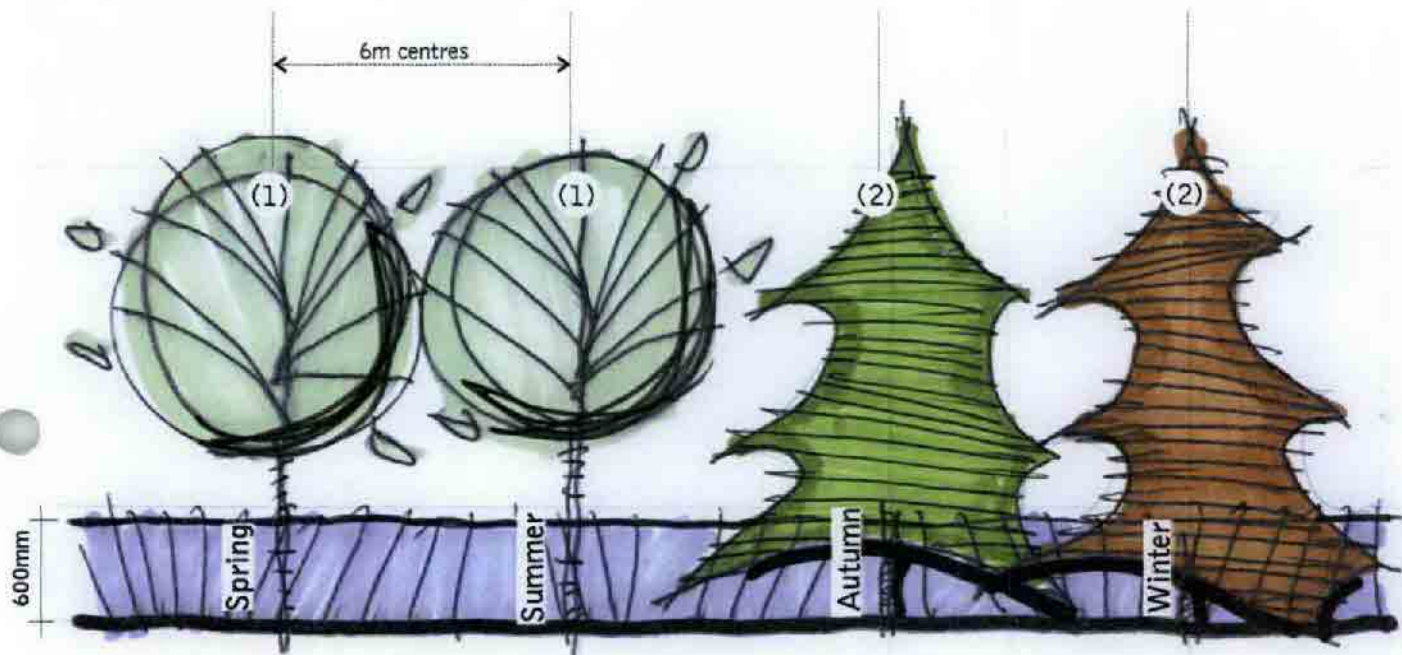
- hedge species: *Crataegus monogyna*
- planting size: 600-800mm transplants
- density: double staggered row at 325mm centres, 250mm apart.
- maintenance: will form a formal hedge, 1-2m in height, requiring substantial pruning and shaping in the first few years of establishment. Work should be undertaken by an experienced maintenance contractor.

SOFT WORKS

Trees and Hedges

Sheet
5.10.

Application: Marketgait



5.10.1 Trees

- tree species: 1) Sorbus aria
2) Larix decidua
- planting size: 1) 14-16cm girth (minimum)
2) 60-80cm size, container grown in 3L pot
- support: Double staked with square timber posts,
(100 x 100mm) & 2 no. rubber tree ties

5.10.2 Hedges

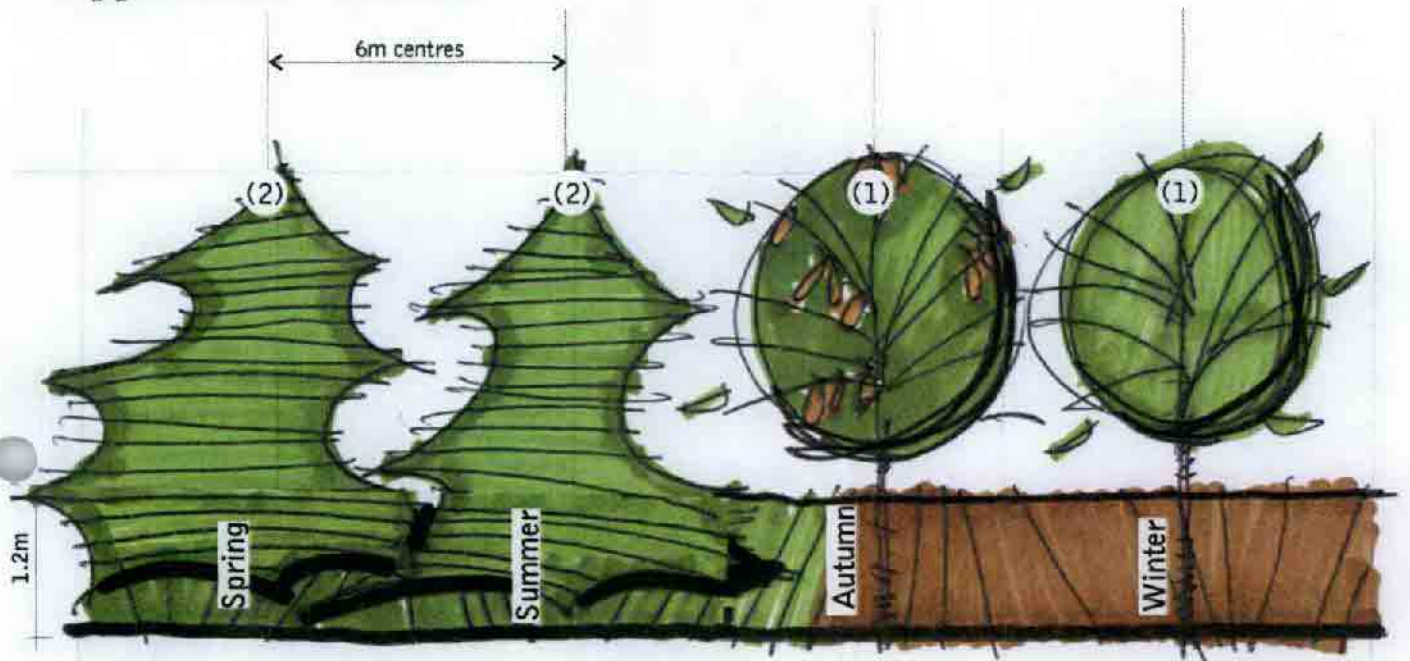
- hedge species: Lavandula angustifolia 'Munstead'
- planting size: 200-300mm, 3L pot
- density: double staggered row at 250mm centres,
250mm apart
- maintenance: Will form informal hedge, clip to shape in March or April.
Replacement planting will be required when plants become leggy (5-6 years)

SOFT WORKS

Trees and Hedges

Sheet
5.11.

Application: Riverside



5.11.1 Trees

- tree species: 1) Sorbus intermedia
2) Pinus sylvestris
- planting size: 1) 14-16cm girth (minimum)
2) 100-125cm size, container grown in 10-12L pot
- support: Double staked with square timber posts,
(100 x 100mm) & 2 no. rubber tree ties

5.11.2 Hedges

- hedge species: 1) Fagus sylvatica (for use in sheltered areas only)
2) Crataegus monogyna (for use in exposed areas)
- planting size: 600-800mm transplants
- density: double staggered row at 325mm centres,
250mm apart
- maintenance: will form a formal hedge, 1-2m in height, requiring substantial pruning and
shaping in the first few years of establishment.
Work should be undertaken by an experienced maintenance contractor.

SOFT WORKS

Shrubs and Bulbs

Sheet
5.12.

Application: Claverhouse

colour theme: yellow

SPECIES	DESCRIPTION (Sizes given are for mature plants)	ASPECT	SOIL TYPE	FLOWERING PERIOD	HARDINESS	PLANTING SIZE	PLANTING DENSITY (m ²)	KEY
LARGE SHRUBS								<p>○ Full Sun ◐ Partial Shade ● Shade Tolerant</p> <p>▽ Heavy, moisture retaining ▼ Medium Loam ▽ Light, free draining</p> <p>Shown by the number of the months in flower.</p> <p>● Half Hardy ●● Frost Hardy ●●● Fully Hardy</p> <p>Within the growing season bare root stock should be used in preference to container grown where possible.</p>
<i>Berberis darwinii</i>	Evergreen, vigorous barrier shrub, orange flower (H2m, S1.5m)	◐●	▽▼	4	●●●	3L 30-40	4	
<i>Forsythia x intermedia</i> 'Spectabilis'	Yellow flower vigorous deciduous (H2.5m, S2m)	◐●	▽▼	3/4	●●●	3L 60-80	3	
<i>Mahonia</i> 'Charity'	Evergreen, yellow flowers (scented) (H3m, S3m)	◐●	▽▼	11/12	●●●	3L 30-40	3	
<i>Hamamelis mollis</i>	Yellow, scented flowers, green leaves turn yellow in autumn. (H4m, S4m)	◐●	▽▼	1/2	●●●	3L 40-60	2	
MEDIUM SHRUBS								
<i>Cytisus x praecox</i> 'Allgold'	Semi-evergreen yellow flowers (H1m, S1m)	◐●	▽▼	5	●●●	2L 30-40	6	
<i>Ulex europaeus</i> 'Plenus'	Evergreen, yellow flowers (H1.5m, S1.5m)	◐●	▽▼	4/5	●●●	3L 30-40	4	
<i>Hypericum</i> 'Hidcote'	Semi-evergreen yellow flowers (H1.5m, S1.5m)	◐●	▽▼	7/10	●●●	3L 30-40	5	
<i>Pyracantha</i> 'Teton'	Evergreen, yellow/orange berries in autumn (H1m, S1.2m)	◐●	▽▼	-	●●●	3L 30-40	5	
<i>Potentilla fruticosa</i> 'Katherine Dykes'	Yellow flowers (H1.5m, S1.5m)	◐●	▽▼	6/12	●●●	3L 20-30	5	
GROUNDCOVER SHRUBS								
<i>Enonymus fortunei</i> 'Emerald & Gold'	Evergreen, variegated yellow / green leaves (H.3m, S.5m)	◐●	▽▼	-	●●●	2L 20-30	6	
<i>Genista hispanica</i>	Semi-evergreen arching branches, yellow scented flowers (H.5m, S.8m)	◐●	▽▼	5/6	●●●	2L 20-30	6	
<i>Hedera helix</i> 'Gold Heart'	Yellow centre to leaves.	◐●	▽▼	-	●●●	3L 60-80	6	
CLIMBING PLANTS								
<i>Hedera helix</i> 'Gold Heart'	Yellow centre to leaves.	◐●	▽▼	-	●●●	3L 60-80	6	
<i>Jasminum nudiflorum</i>	Semi-evergreen Yellow, scented flowers	◐●	▽▼	11/2	●●●	2L 30-40	5	
BULBS								
<i>Narcissus</i> 'Rembrandt'	Golden yellow, large flowering, height 35cm	●	▼	3	-	Top size	60	
<i>Tulipa</i> 'Sunkist'	Deep golden yellow Height 65cm	○	▼	5	-	Top size	80	
<i>Colchicum autumnale</i> 'Album'	White flowers Height 10cm	◐●	▽	7/11	-	Top size	75	

SOFT WORKS

Shrubs and Bulbs

Sheet
5.13.

Application: Claypotts

colour theme: purple / blue

SPECIES	DESCRIPTION (Sizes given are for mature plants)	ASPECT	SOIL TYPE	FLOWERING PERIOD	HARDINESS	PLANTING SIZE	PLANTING DENSITY (m ²)
LARGE SHRUBS							
<i>Buddleia davidii</i> 'Empire Blue'	Violet / blue flowers (H3m, S2m)	○ ●	▽ ▽	8/9	● ● ●	3L 40-60	3
<i>Syringa vulgaris</i> 'Katherine Havemeyer'	Lilac flowers. fragrant. (H4m, S3m)	○ ●	▽ ▽	5/6	● ● ●	3L 30-40	3
MEDIUM SHRUBS							
<i>Rosmarinus officinalis</i>	Evergreen, blue flowers aromatic foliage. (H1.5m, S1.5m)	○ ●	▽ ▽	5	● ● ●	3L 40-60	4
<i>Ceanothus</i> 'Gloire de Versailles'	Deciduous. Blue flowers (H1.5m, S1.5m)	○ ●	▽ ▽	6/8	● ● ●	3L 40-60	5
<i>Perovskia x</i> 'Blue Spire'	Blue flowers. White aromatic stems (H1m, S1m)	○ ●	▽ ▽	8/9	● ● ●	3L 30-40	6
<i>Weigela florida</i> 'Foliis Purpureis'	Pink flowers, purple tinged leaves (H1m, S1m)	○ ●	▽ ▽	5/6	● ● ●	3L 40-60	6
GROUNDCOVER SHRUBS							
<i>Festuca glauca</i>	Grass. Narrow leaves in blue/green (H1m, S1m)	○ ●	▽ ▽	-	● ● ●	2L	8
<i>Lavandula</i> 'Hidcote'	Evergreen. Aromatic, deep violet flowers + foliage (H.6m, S.6m)	○ ●	▽ ▽	7/8	● ● ●	3L 20-30	6
<i>Juniperus horizontalis</i> 'Douglasii'	Blue-green to purple in winter (H.6m, S2m)	○ ● ●	▽ ▽	-	● ● ●	3L 30-40	5
<i>Vinca minor</i>	Evergreen. blue flowers. Low dense cover. (H.15m, S1m)	○ ● ●	▽ ▽	4/6	● ● ●	1.5L 15-20	6
CLIMBING PLANTS							
<i>Clematis alpina</i>	Single, blue flowers	○ ● ●	▽ ▽	4/5	● ● ●	3L 60-90	5
<i>Solanum crispum</i> 'Glasnevin var'	Vigorous climber lilac/purple flowers	○ ● ●	▽ ▽	6/8	● ●	3L 60-90	5
BULBS							
<i>Crocus chrysanthus</i> 'Princess Beatrix'	Blue flower, 10cm high	○	▽ ▽	2/3	-	Top size	150
<i>Crocus chrysanthus</i> 'Miss Vain'	White flower, 10cm high	○	▽ ▽	2/3	-	Top size	150
<i>Colchicum</i> 'Autumnale Album'	White flowers, height 10cm	○ ●	▽	7/11	-	Top size	75

KEY

○ Full Sun
● Heavy, moisture retaining
▽ Shown by the number of the months in flower.
● Half Hardy
●● Frost Hardy
●●● Fully Hardy

○ Shade Tolerant
▽ Light, free draining

○ Partial Shade
▽ Medium Loam

Within the growing season bare root stock should be used in preference to container grown where possible.

ASPECT:
SOIL TYPE:
FLOWERING PERIOD:
HARDINESS:
PLANTING SIZE:

SOFT WORKS

Shrubs and Bulbs

Sheet
5.14.

Application: Esplanade

colour theme: orange / red

SPECIES	DESCRIPTION (Sizes given are for mature plants)	ASPECT	SOIL TYPE	FLOWERING PERIOD	HARDINESS	PLANTING SIZE	PLANTING DENSITY(m ²)
LARGE SHRUBS							
<i>Berberis darwinii</i>	Evergreen, vigorous barrier shrub, orange flowers. (H2m, S1.5m)	☉ ●	▽ ▼	4	●●●	3L 30-40	4
<i>Cornus alba</i>	Bright red shoots in winter, Red/Orange leaves in autumn. deciduous (H2.5m, S2.5m)	☉ ●	▽ ▼	-	●●●	3L 60-80	4
<i>Euonymus alatus</i>	Deciduous dark green leaves turn bright red in autumn. (H2m, S2m)	☉ ●	▽ ▼	-	●●●	3L 30-40	3
<i>Pyracantha 'Orange Glow'</i>	Evergreen. White flowers, orange berries (H3m, S3m)	☉ ●	▽ ▼	6	●●	3L 60-80	4
MEDIUM SHRUBS							
<i>Berberis thunbergii</i>	Deciduous, purple foliage, yellow flowers (H1.5m, S1.5m)	☉ ●	▽ ▼	4	●●●	3L 30-40	4
<i>Cytisus scoparius 'Killiney Red'</i>	Red flowers, deciduous (H1.2m, S1.2m)	☉ ●	▽ ▼	5	●●●	3L 45-60	5
<i>Rosa rugosa 'FJ Grootendorst'</i>	Purplish red flowers (H1.5m, S1.5m)	☉ ●	▽ ▼	6/10	●●●	3L 40-60	6
<i>Mahonia aquifolium</i>	Evergreen. Yellow flowers (H1.5m, S1.5m)	☉ ●	▽ ▼	4	●●●	3L 30-40	5
GROUNDCOVER SHRUBS							
<i>Potentilla 'Red Ace'</i>	Deciduous. Bright red flowers (H.6m, S1m)	☉ ●	▽ ▼	5/10	●●●	2L 15-20	5
<i>Rosa 'Red Blanket'</i>	Vigorous. Red flowers (H.6m, S1m)	☉	▽ ▼	7	●●●	2L	5
CLIMBING PLANTS							
<i>Parthenocissus tricuspidata</i>	Crimson leaves in autumn. deciduous	☉ ●	▽ ▼	-	●●●	2L 60-90	5
<i>Vitis coignetiae</i>	Deciduous. Crimson leaves in autumn	☉ ●	▽ ▼	-	●●●	2L 60-80	5
BULBS							
<i>Tulipa greigii Cape cod</i>	Apricot, edged yellow, mottled leaves Height 30cm	☉	▼	3	●●●	Top size	80

KEY

☉ Shade Tolerant
▽ Light, free draining

● Partial Shade
▼ Medium Loam

☉ Full Sun
▼ Heavy, moisture retaining
Shown by the number of the months in flower.
● Half Hardy ●● Frost Hardy ●●● Fully Hardy

Within the growing season bare root stock should be used in preference to container grown where possible.

ASPECT:
SOIL TYPE:
FLOWERING PERIOD:
HARDINESS:
PLANTING SIZE:

SOFT WORKS

Shrubs and Bulbs

Sheet
5.15

Application: Estuary

colour theme: white / pink

SPECIES	DESCRIPTION (Sizes given are for mature plants)	ASPECT	SOIL TYPE	FLOWERING PERIOD	HARDINESS	PLANTING SIZE	PLANTING DENSITY(m ²)
LARGE SHRUBS							
<i>Amelanchier lamarkii</i>	Deciduous. White flowers. Orange/Red autumn colour (H5m, S4m)	☉ ●	▽ ▼	4/5	●●●	3L 60-80	3
<i>Escallonia 'Donald Seedling'</i>	Evergreen. White/pink flowers (H2.5m, S2m)	☉ ●	▽ ▼	7/9	●●●	3L 45-60	3
<i>Symphoricarpos albus</i>	Deciduous. White fruits follow pink flowers in summer (H1.75m, S1.75m)	☉ ●	▽ ▼	-	●●●	3L 40-60	4
<i>Viburnum tinus</i>	Evergreen. White flowers. (H3m, S3m)	☉ ●	▽ ▼	10/4	●●●	3L 30-40	4
MEDIUM SHRUBS							
<i>Cytisus x praecox 'Albus'</i>	Creamy white flowers (H1.2m, S1.2m)	☉ ●	▽ ▼	5/6	●●●	2L 45-60	6
<i>Prunus laurocerasus 'Otto Luyken'</i>	Evergreen. White flowers (H1.5m, S2m)	☉ ●	▽ ▼	4/5	●●●	3L 30-40	4
<i>Spirea nipponica 'Snowmound'</i>	White flowers (H1.5m, S1.5m)	☉ ●	▽ ▼	6	●●●	3L 40-60	5
<i>Potentilla fruticosa 'Abbotswood'</i>	White flowers (H.8m, S1.5m)	☉ ●	▽ ▼	6/10	●●●	2L 30-40	6
GROUNDCOVER SHRUBS							
<i>Rosa 'Swany'</i>	Double White flowers spreading habit (H.6m, S1m)	☉ ●	▽ ▼	7/8	●●●	2L 30-40	6
<i>Vinca minor 'Gertrude Jekyll'</i>	Small, white flowers, evergreen. (H.15m, S1m)	☉ ●	▽ ▼	4/6	●●●	1.5L 15-20	8
CLIMBING PLANTS							
<i>Lonicera japonica repens</i>	Semi-evergreen white/yellow flowers	☉ ●	▽ ▼	6/10	●●●	3L 60-90	5
<i>Hydrangea petiolaris</i>	Deciduous white flowers	☉ ●	▽ ▼	6	●●●	3L 60-90	5
<i>Polygonum baldschuanicum</i>	Vigorous deciduous climber. White flowers	☉ ●	▽ ▼	7/10	●●●	3L 80-120	5
BULBS							
<i>Crocus chrysanthus 'Miss Vain'</i>	White flowers, 10cm high	☉	▽ ▼	2	-	Top size	150
<i>Colchicum Autumnale Major</i>	Pink flowers, height 10cm	☉ ●	▽	7/9	-	Top size	75

KEY

☉ Shade Tolerant
☉ Light, free draining

● Partial Shade
▽ Medium Loam

☉ Full Sun
● Heavy, moisture retaining

ASPECT:
SOIL TYPE:
FLOWERING PERIOD:
HARDINESS:
PLANTING SIZE:

Shown by the number of the months in flower.
●●● Frost Hardy
●● Half Hardy
● Full Hardy
Within the growing season bare root stock should be used in preference to container grown where possible.

SOFT WORKS

Shrubs and Bulbs

Sheet
5.16.

Application: Marketgait

colour theme: green/blue

SPECIES	DESCRIPTION <small>(Sizes given are for mature plants)</small>	ASPECT	SOIL TYPE	FLOWERING PERIOD	HARDINESS	PLANTING SIZE	PLANTING DENSITY(m ²)
LARGE SHRUBS							
<i>Pinus mugo</i>	Spreading conifer. Dark green leaves (H2m, S2m)	○ ●	▽ ▽	-	...	3L 20-30	5
MEDIUM SHRUBS							
<i>Escallonia 'Apple Blossom'</i>	Evergreen, bushy, dense shrub. Pink Flowers (H1m, S1.2m)	○ ●	▽ ▽	7/9	..	2L 30-40	4
<i>Juniperus media 'Mint Julep'</i>	Spreading, flat bush. Arching shoots of bright green foliage. (H1m, S2m)	○ ●	▽ ▽	-	...	3L 30-40	4
<i>Phormium tenax 'Variegatum'</i>	Evergreen. Cream striped leaves. Pale yellow flowers. (H1.8m, S1.8m)	○ ●	▽ ▽	7/8	..	3L 40-60	6
<i>Rosa x paulii</i>	Low-growing, prickly shrub. White flowers. (H1m, S3m)	○	▽ ▽	6/8	...	2L	5
GROUNDCOVER SHRUBS							
<i>Cotoneaster 'Conspicuous Decorus'</i>	Evergreen. Orange/Red berries after June flowering. (H.6m, S1.5m)	○ ●	▽ ▽	-	...	3L 30-40	4
<i>Euonymus fortunei</i>	Evergreen. Shiny leaves. Low growing (H.3m, S.5m)	○ ●	▽ ▽	-	...	2L 20-30	6
<i>Genista hispanica</i>	Semi-evergreen, arching branches. Yellow, scented flowers. (H.5m, S.8m)	○ ●	▽ ▽	5/6	...	2L 20-30	6
<i>Hypericum calycinum</i>	Semi-evergreen. Yellow flowers. (H.3m, S1m)	○ ●	▽ ▽	7/10	...	2L 15-20	5
<i>Lavandula angustifolia 'Munstead'</i>	Evergreen. Compact form. Lavender blue flowers. (H.5m, S.5m)	○ ●	▽ ▽	7/8	...	2L 60-80	5
<i>Juniperus horizontalis</i>	Blue/green leaves, purple in winter (H.6m, S2m)	○	▽		...	2L 20-30	8
CLIMBING PLANTS							
<i>Hedera hibernica</i>	Evergreen. Large leaves	○ ●	▽ ▽	-	...	2L 40-60	5
<i>Hedera colchica dentata 'Variegata'</i>	Evergreen, variegated, cream-yellow leaves.	○ ●	▽ ▽	-	...	2L 40-60	5

KEY

○ Full Sun
● Partial Shade
○ ● Shade Tolerant

▽ Heavy, moisture retaining
▽ Medium Loam
▽ Light, free draining

7/9 Shown by the number of the months in flower.

... Frost Hardy
.. Half Hardy
● Fully Hardy

Within the growing season bare root stock should be used in preference to container grown where possible.

ASPECT:
SOIL TYPE:
FLOWERING PERIOD:
HARDINESS:
PLANTING SIZE:

SOFT WORKS

Shrubs and Bulbs

Sheet
5.17.

Application: Riverside

colour theme: red

SPECIES	DESCRIPTION (Sizes given are for mature plants)	ASPECT	SOIL TYPE	FLOWERING PERIOD	HARDINESS	PLANTING SIZE	PLANTING DENSITY (m ²)
LARGE SHRUBS							
<i>Enonymus alatus</i>	Dark green leaves turn brilliant red in autumn. Deciduous (H2m, S2m)	☉ ●	▽ ▽	-	●●●	3L 45-60	4
<i>Pyracantha rogersiana</i>	Evergreen. White flowers red/orange fruits (H3m, S3m)	☉ ●	▽ ▽	6	●●●	2L 40-60	3
<i>Ribes sanguineum</i> 'Pulborough Scarlet'	Deciduous. Red flowers, vigorous (H2m, S2m)	☉ ●	▽ ▽	4	●●●	3L 60-90	4
MEDIUM SHRUBS							
<i>Cornus</i> 'Siberica Alba'	Deciduous. Scarlet shoots in winter. (H1.5m, S1.5m)	☉ ●	▽ ▽	-	●●●	3L 40-60	5
<i>Cytisus scoparius</i> 'Killiney Red'	Red flowers deciduous (H1.2m, S1.2m)	☉ ●	▽ ▽	5	●●●	3L 45-60	5
<i>Rosa rugosa</i> 'FJ Grootendorst'	Purplish red flowers (H1.5m, S1.5m)	☉ ●	▽ ▽	6/10	●●●	3L 40-60	6
<i>Rosa</i> 'Red Max Graf'	Vigorous. Red flowers (H.7m, S1m)	☉	▽ ▽	6/7	●●●	2L	5
GROUNDCOVER SHRUBS							
<i>Cotoneaster conspicuus</i> 'Decorus'	Orange/Red berries after June flowering (H.6m, S1.5m)	☉ ●	▽ ▽	-	●●●	3L 30-40	4
<i>Potentilla</i> 'Red Ace'	Deciduous. Bright red flowers (H.6m, S1m)	☉ ●	▽ ▽	5/10	●●●	2L 30-40	5
<i>Rubus tricolor</i>	Evergreen. White flowers (H.6m, S2m)	☉ ●	▽ ▽	7	●●●	2L 45-60	6
CLIMBING PLANTS							
<i>Parthenocissus tricuspidata</i>	Crimson leaves in autumn. Deciduous	☉ ●	▽ ▽	-	●●●	3L 60-90	5
<i>Vitis coignetiae</i>	Deciduous. Crimson leaves in autumn	☉ ●	▽ ▽	-	●●●	4L 45-60	5
BULBS							
<i>Tulipa greigii</i> 'Red Riding Hood'	Scarlet, dark mottled leaves. Height 20cm	☉	▽	3	-	Top size	80
<i>Tulipa praestans</i> <i>fusilier</i>	Scarlet flowers Height, 20cm	☉	▽	4	-	Top size	80

KEY

☉ Full Sun
 ☉ ● Heavy, moisture retaining
 ☉ ● Medium Loam
 ☉ ● Light, free draining

▽ Heavy, moisture retaining
 ▽ Medium Loam
 ▽ Light, free draining

● Shown by the number of the months in flower.
 ● Half Hardy
 ●● Frost Hardy
 ●●● Fully Hardy

Within the growing season bare root stock should be used in preference to container grown where possible.

ASPECT:
 SOIL TYPE:
 FLOWERING PERIOD:
 HARDINESS:
 PLANTING SIZE:

SOFT WORKS

Shrubs and Bulbs

Sheet
5.18.

Application: General Background Planting
All Routes

colour theme: grey/green

SPECIES	DESCRIPTION (Sizes given are for mature plants)	ASPECT	SOIL TYPE	FLOWERING PERIOD	HARDINESS	PLANTING SIZE	PLANTING DENSITY (m ²)
LARGE SHRUBS							
<i>Elaeagnus ebbingei</i>	Evergreen. Fragrant silvery white flowers (H3m, S2m)	☉ ●	▽ ▼	9/11	●●●	3L 40-60	3
<i>Garrya elliptica</i>	Evergreen. Long grey catkins - Jan+Feb (H3m, S2m)	☉ ●	▽ ▼	1/2	●●●	3L 30-40	3
<i>Ilex aquifolium</i>	Evergreen. Bright red berries autumn-early spring (H10m, S6m)	☉ ●	▽ ▼	-	●●●	3L 60-80	3
<i>Sambucus nigra</i>	Deciduous creamy white flowers (H4m, S3m)	☉ ●	▽ ▼	6	●●●	2L 40-60	4
<i>Pinus mugo</i>	Spreading conifer. Dark green leaves (H2m, S2m)	☉ ●	▽ ▼	-	●●●	3L 20-30	5
MEDIUM SHRUBS							
<i>Prunus laurocerasus</i> "Otto Luyken"	Evergreen. White flowers (H1.5m, S2m)	☉ ●	▽ ▼	4/5	●●●	3L 30-40	4
<i>Viburnum davidii</i>	Evergreen. Blue fruits, ribbed foliage (H1m, S1.5m)	☉ ●	▽ ▼	6	●●●	2L 20-30	5
GROUNDCOVER SHRUBS							
<i>Lonicera pileata</i>	Evergreen. Low growing (H.6m, S1.2m)	☉ ●	▽ ▼	-	●●●	2L 20-30	5
<i>Enonymus fortunei</i>	Evergreen (H.3m, S.5m)	☉ ●	▽ ▼	-	●●●	2L 20-30	6
<i>Hedera helix</i>	Evergreen	☉ ●	▽ ▼	-	●●●	2L 40-60	6
<i>Hedera hibernica</i>	Evergreen. Large leaves	☉ ●	▽ ▼	-	●●●	2L 60-80	5
<i>Juniperus horizontalis</i>	Blue/green leaves, purple in winter (H.6m, S2m)	☉ ●	▽ ▼	-	●●●	3L 30-40	5
CLIMBING PLANTS							
<i>Hedera colchica</i>	Evergreen. Large leaves	☉ ●	▽ ▼	-	●●●	2L 40-60	5
<i>Hedera helix</i>	Evergreen	☉ ●	▽ ▼	-	●●●	2L 40-60	6
<i>Hedera hibernica</i>	Evergreen. Large leaves	☉ ●	▽ ▼	-	●●●	2L 60-80	5

KEY

☉ Partial Shade
● Heavy, moisture retaining
▽ Shown by the number of the months in flower.
▼ Frost Hardy
●●● Fully Hardy
●● Half Hardy
● Frost Hardy

☉ Shade Tolerant
▽ Light, free draining

ASPECT:
SOIL TYPE:
FLOWERING PERIOD:
HARDINESS:
PLANTING SIZE:

Within the growing season bare root stock should be used in preference to container grown where possible.

Part 6

HARD WORKS

Contents

<i>Sheet</i>	<i>Title</i>	<i>Ref No.</i>	<i>Item</i>
6.1.	Kerbing	6.1.1	Road Kerb : PC Concrete
		6.1.2	Road Kerb : Granite Aggregate
		6.1.3	Footpath Kerb PC Concrete
		6.1.4	Footpath Kerb Granite Aggregate
6.2.	Road Edge Strips & Central Reservation	6.2.1	Concrete Blocks
		6.2.2	Reclaimed Setts
		6.2.3	Surface Coated Colour Blocks
6.3.	Road Surface Crossovers	6.3.1	Hot Rolled Asphalt
		6.3.2	Tumbled Concrete Block
		6.3.3	New Sawn Granite Setts
6.4.	Drainage Channels	6.4.1	Reclaimed Granite Setts
		6.4.2	PC Dished Channel
		6.4.3	New Sawn Granite Setts

Part
6

HARD WORKS

Contents

<i>Sheet</i>	<i>Title</i>	<i>Ref No.</i>	<i>Item</i>
6.5.	Pedestrian Slabbed Surfacing	6.5.1	Natural Stone
		6.5.2	Replica Stone PC Concrete
		6.5.3	Granite Aggregate Concrete
		6.5.4	PC Concrete
6.6.	Pedestrian Surfacing : Miscellaneous	6.6.1	Flexible Surfacing
		6.6.2	Tactile Paving
		6.6.3	Cycletrack Rumble Strip/Edge

HARD WORKS KERBING

Sheet
6.1.

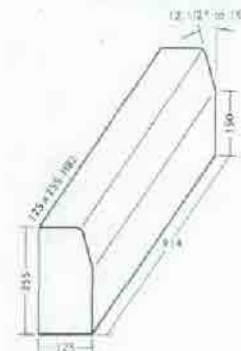
Application: All Routes

6.1.1 Road Kerb : PC Concrete

description: Standard, has battered & dropped bullnose kerbs as Road Standards

uses: Roads / Vehicle accessed as standard

materials & finish: Pressed concrete battered grey kerb



6.1.2 Road Kerb : Granite Aggregate

description: CHARCON countryside kerb half battered ref CSK 2 supplied by CAMAS BUILDING MATERIALS or similar. Colour: Silver Grey

uses: Roads / Vehicle access where higher quality is sought. Available as straight, drop kerb, radius kerb and quadrant.

materials & finish: textured & shot blasted well weathered finish to expose granite aggregate and white cement matrix.

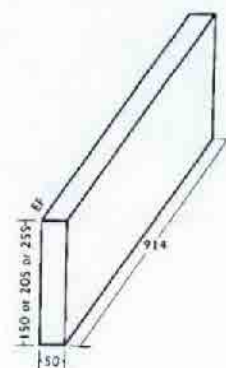


6.1.3 Footpath Kerb : PC Concrete

description: Standard Pin Kerb as per Road Standard

uses: Footways / Footpaths & Cycleway edging Standard

materials & finish: Pressed grey concrete square top laid flush with surface.



6.1.4 Footpath Kerb : Granite Aggregate Block

description: MISTRAL PC BLOCK supplied by MARSHALLS or similar.

uses: To edge footpath / footways where higher quality is sought. Blocks to be laid in soldier course and concrete haunched to ensure stability.

materials & finish: Pressed concrete block with textured finish to expose granite aggregate and white cement matrix.



HARD WORKS

ROAD EDGE STRIPS & CENTRAL RESERVATION

Sheet
6.2.

Application: Refer To Matrix

6.2.1 Concrete Block

description: KEYBLOCK supplied by MARSHALLS or similar

uses: 800mm wide refuge strip along road edge or infill to central reservation.

sizes: 200 x 100 x 100mm for heavy duty use.

materials & finish: Rectangular concrete unit with integral spaces with / without chamfered top edges.

colour: Buff

cost: Low



6.2.2 Reclaimed Granite Setts

description: Rectangular granite setts reclaimed from Scottish source

uses: 800mm wide refuge strip along road edge or infill to central reservation

sizes: Variable lengths, 100mm deep. Width variable but sorted to give consistent coursing width.

materials & finish: Granite setts.

colour: Grey

cost: Low / Medium



6.2.3 Surface Coated Coloured PC Blocks

description: COLOURTOP KEYBLOCK & WHITE REFLECTIVE KEYBLOCK supplied by MARSHALLS or similar.

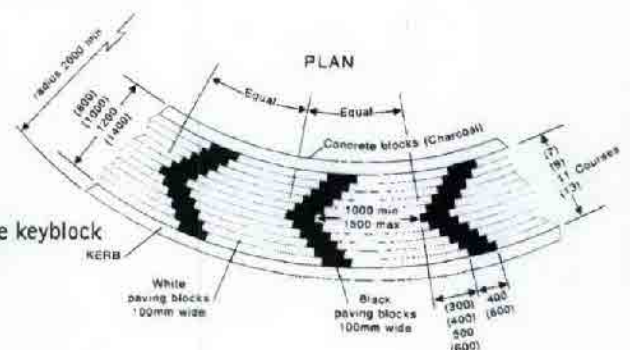
uses: For roundabout chevrons.

sizes: 100 x 200 x 100mm thick

materials & finish: Factory painted concrete blocks. Reflective keyblock treated with bonded layer of glass beads.

colour: White (reflective)
Black (coated)

cost: Low



HARD WORKS

ROAD SURFACES CROSSOVERS

Sheet
6.3.

Application: All Routes

6.3.1 Hot Rolled Asphalt

description: Hot rolled asphalt wearing course.

uses: Standard road carriageway construction.

materials & finish: Coated chippings to be grey in colour and complying with all requirements of the road standards.

cost: Low



6.3.2 Tumbled Concrete Block

description: TEGULA concrete block supplied by MARSHALLS or similar.

uses: Lightly trafficed roads & parking areas where higher standard of appearance is required or to define entrances / vehicular access within footways.

materials & finish: Tumbled concrete block laid to patterns as recommended by manufacturer.

size: 120, 160, 240mm gauge.
Lengths 80, 120, 160, 240, 320mm.
80mm thick.

colour: Burnt Ochre

cost: Medium



6.3.3 New Sawn Granite Setts

description: New Granite Setts with Sawn Sides.

uses: High quality lightly trafficed roads and vehicular access & entrances within conservation and heritage areas and laid to satisfaction of roads authority.

materials & finish: Granite setts sawn sides and flame textured wearing surface.

size: Random length, 100mm width, 100mm depth.

colour: Light Grey

cost: High



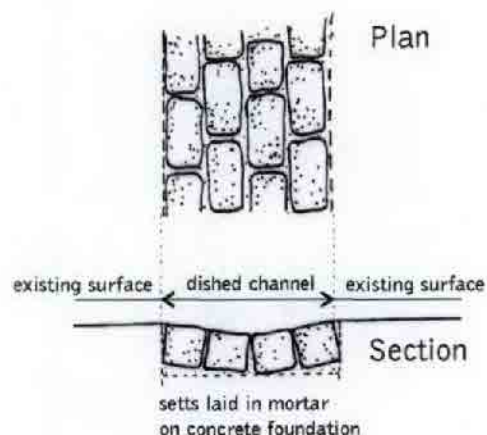
HARD WORKS DRAINAGE CHANNELS

Sheet
6.4

Application: All Routes

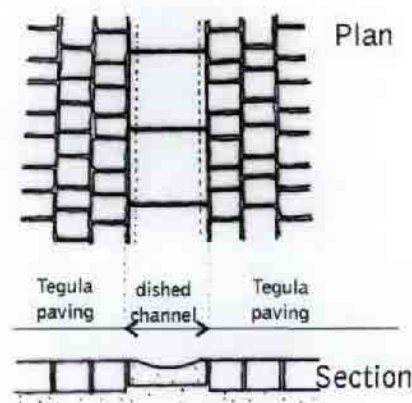
6.4.1 Granite Setts

- description:** Reclaimed granite setts from Scottish source.
- uses:** To provide dished drainage channel within asphalt surface in lightly trafficked areas.
- materials & finish:** Rectangular granite setts 100mm deep variable lengths width variable but sorted to give consistent course width.
- colour:** Light Grey
- cost:** Low / Medium



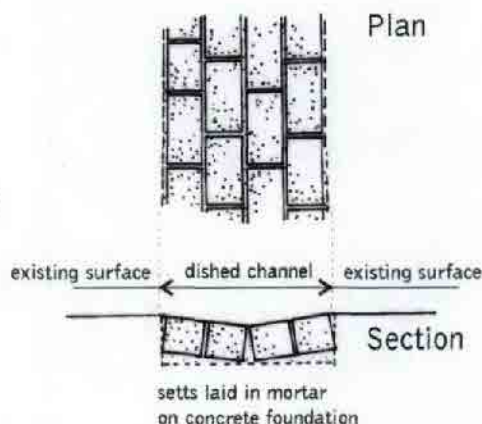
6.4.2 Precast Concrete Dished Channel

- description:** KEYCHANNEL supplied by MARSHALLS or similar.
- uses:** To provide dished drainage channel within TEGULA surfacing in lightly trafficked areas.
- materials & finish:** Small unit pressed concrete dished channel.
- colour:** Buff
- size:** 200 x 200 x 65mm
depth of dish : 10mm
- cost:** Low / Medium



6.4.3 New Sawn Granite Setts

- description:** New granite setts with sawn sides.
- uses:** High quality lightly trafficked roads and vehicular accesses & entrances within conservation / heritage / high profile areas.
- materials & finish:** Granite setts sawn sides and rectangular flame textured wearing surface.
- colour:** Grey or pink for colour contrast
- size:** Random length, 100mm width, 100mm deep.
- cost:** High



HARD WORKS

PEDESTRIAN : SLABBED SURFACING

Sheet
6.5.

Application: All Routes

6.5.1 Natural Stone

- description:** GREENMOOR RUSTIC YORKSTONE, supplied by MARSHALLS or similar. CAITHNESS STONE supplied from CAITHNESS QUARRIES.
- uses:** Areas of highest quality. Footways, footpaths, pedestrian areas, civic space.
- sizes:** Generally supplied in random lengths & widths 400, 500, 600mm. Two thicknesses 50mm for pedestrian areas only 75mm for occasional traffic use and restricted surface dimensions.
- materials & finish:** GREENMOOR RUSTIC to be supplied with flame textured finish, CAITHNESS STONE naturally riven.
- cost:** High



6.5.2 Replica Stone PC Concrete

- description:** CHARCON COURTSTONE SLABS supplied by CAMAS BUILDINGS MATERIAL or similar, CHARCOAL colour only.
- uses:** To replicate Caithness Stone in areas of high / medium quality where Caithness Stone cannot be afforded. Footways, footpaths, pedestrian, conservation areas.
- sizes:** As available, use the full range of sizes in random pattern to replicate natural stone.
- materials & finish:** Riven hydraulically pressed concrete slab, charcoal colour
- cost:** Medium



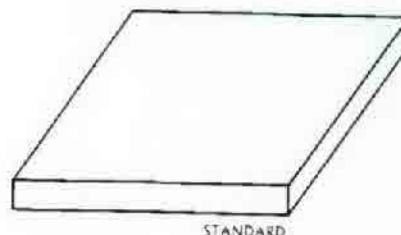
6.5.3 Granite Aggregate Concrete

- description:** PERFECTA paving slabs supplied by MARSHALLS or similar, colour buff.
- uses:** Areas of high medium / high quality. Footways, footpaths and pedestrian areas.
- sizes:** 400mm, 450mm, 600mm square, 50mm thick for pedestrian areas. Traffic slabs also available for occasional vehicular overrun.
- materials & finish:** Smooth ground finish concrete slab with hard Yorkstone aggregate content.
- cost:** Medium / Low



6.5.4 PC Concrete

- description:** Standard, buff coloured, concrete slab.
- uses:** Standard footways and footpaths.
- sizes:** Wide range of sizes BS7263 Part 1
- materials & finish:** Pressed concrete slab.
- cost:** Low



HARD WORKS

PEDESTRIAN SURFACING: MISCELLANEOUS

Sheet
6.6.

Application: All Routes

6.6.1 Footpath & Footway Flexible Surface

description: Hot rolled asphalt to Road Standard.

uses: Standard finish to footpaths/footways, cycleways.

materials & finish: Road Standard Type A construction with 6-10mm nominal grey granite aggregate rolled into surface at a rate of 1kg/m²

cost: Low



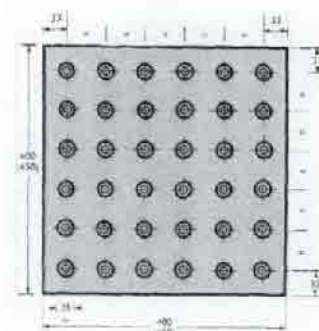
6.6.2 Tactile PC Concrete

description: TACTILE paving supplied by MARSHALLS or similar. Colour Red.

uses: Controlled and uncontrolled crossing points to identify presence of dropped kerb & appropriate place to cross. Layout in accordance with Department of Transport recommendations.

materials & finish: Pressed PC concrete, with raised blisters 25mm diameter 5mm height. Slab sizes 400 x 400 x 50mm, 400 x 400 x 65mm, 450 x 450 x 50mm.

cost: Low



6.6.3 Cycleway Block

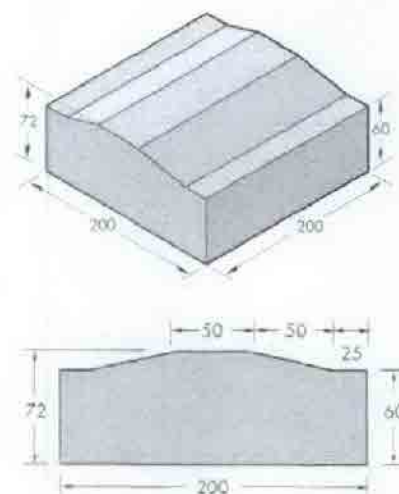
description: CYCLEWAY BLOCK supplied by MARSHALLS or similar. Colour Red.

uses: To demarcate edge between footway / cycleway along a 'shared' route and at junctions of cycletrack with other surfaces.

materials & finish: Pressed concrete block with low central 'hump' gently sloping sides extending full length of block to be laid in line to form a false kerb.

sizes: 200 x 200 x 60/72mm
5no. blocks per linear metre.

cost: Low



Part 7

STREET FURNITURE

Contents

<i>Sheet</i>	<i>Title</i>	<i>Ref No.</i>	<i>Item</i>
7.1.	Street Furniture	7.1.1	Cycle Bollard
		7.1.2	Low Bollard
		7.1.3	Tall Bollard
		7.1.4	Timber Bollard
7.2.	Street Furniture	7.2.1	Litter Container 32 Gallon
		7.2.2	Metal Bench
		7.2.3	Metal Seat with Armrest
		7.2.4	Metal Seat with Intermediate Armrest
7.3.	Street Furniture	7.3.1	Tree Grille
		7.3.2	Tree Guard
7.4.	Street Furniture	7.4.1	Pedestrian Guard Rail - Standard
		7.4.2	Pedestrian Guard Rail - Non Standard
7.5.	Street Furniture	7.5.1	Street Lighting

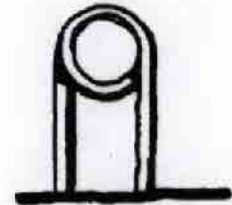
STREET FURNITURE

Sheet
7.1.

Application: All Routes

7.1.1 Cycle Bollard

DESCRIPTION Cycle Pin by AMSTED LTD or similar
materials: Mild steel hot dip galvanised to BS 729
finish: DULUX TRADE micaceous iron oxide or similar.
colour : Dark grey
cost category : Medium / Low



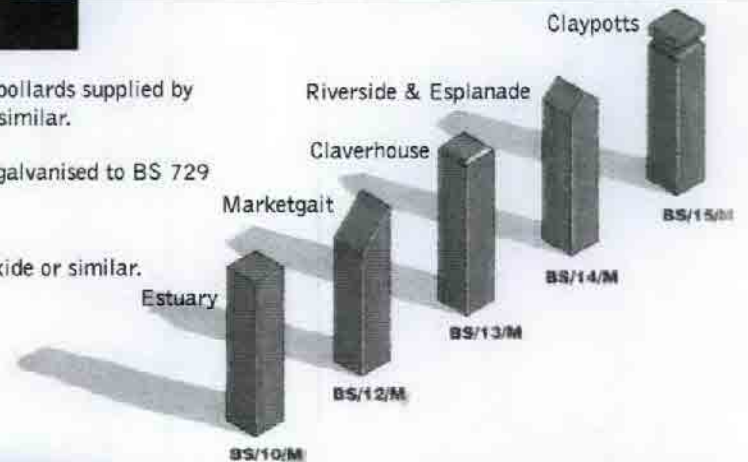
7.1.2 Low Bollards

DESCRIPTION 660mm high, 450mm square MS bollards supplied by MACEMAIN & AMSTED Ltd. Or similar.
materials: RHS mild steel metal box section, galvanised to BS 729.
finish: DULUX TRADE micaceous iron oxide or similar
colour : Dark grey
cost category : Medium / Low



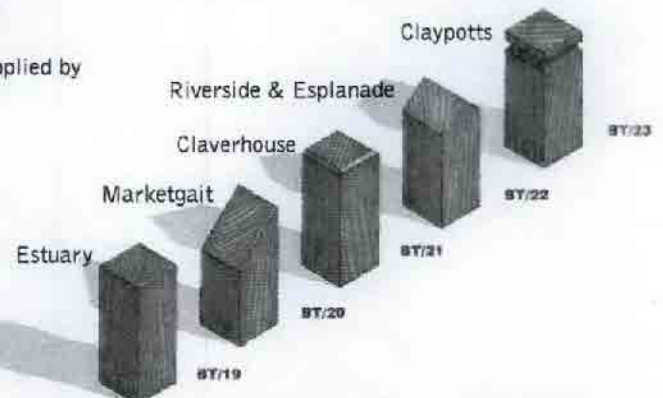
7.1.3 Tall Bollards

DESCRIPTION 800mm high, 150mm square MS bollards supplied by MACEMAIN & AMSTED Ltd. or similar.
materials: RHS mild steel metal box section galvanised to BS 729
finish: DULUX TRADE micaceous iron oxide or similar.
colour : Dark grey
cost category : Medium / Low



7.1.4 Timber Bollards

DESCRIPTION 800mm high, 150mm square MS bollards supplied by MACEMAIN & AMSTED Ltd. or similar.
materials: Oak
finish: BUTINOX or similar semi transparent timber finish, treated with BUTINOX maintenance base 500 clear, or equivalent.
colour : Oak or equivalent.
cost category : Medium / Low



STREET FURNITURE

Sheet
7.2.

Application: All Routes

7.2.1 Litter Container

DESCRIPTION

TIMBERFORM RENAISSANCE 2814 DTE by COLUMBIA CASCADE Ltd or similar for embedment ground fixing.

materials:

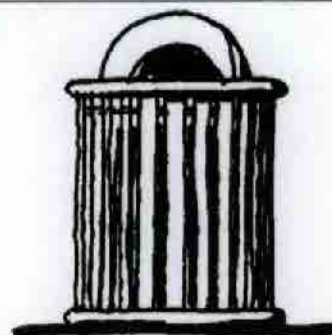
Circular steel frame with flat steel surround, 144 litre liner all supplied hot dipped galvanised to BS 729 with steel hood.

finish:

DULUX TRADE micaceous iron oxide or similar, colour dark grey.

cost category :

Medium



7.2.2 Metal Bench

DESCRIPTION

TIMBERFORM RENAISSANCE ref 2802 metal bench with armrests supplied by COLUMBIA CASCADE Ltd. Lengths 1500mm, 1800mm, 2400mm. To be permanently ground fixed (anchor bolt not supplied)

materials:

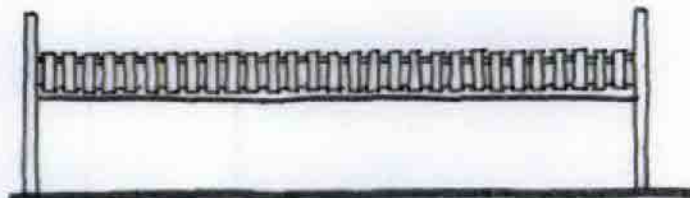
Mild steel, square frame with flat slats all to be hot dipped galvanised to BS 729

finish:

DULUX TRADE micaceous iron oxide or similar, colour dark grey.

cost category :

Medium



7.2.3 Metal Bench Seat with Armrest

DESCRIPTION

TIMBERFORM RENAISSANCE bench ref:2806 supplied by COLUMBIA CASCADE Ltd or similar. Lengths 1500mm, 1800mm, 2400mm.

materials:

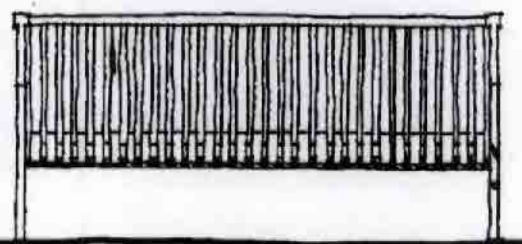
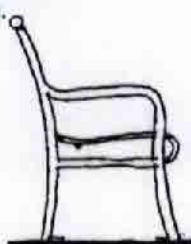
Square steel frames with flat steel slats

finish:

DULUX TRADE micaceous iron oxide or similar, colour dark grey.

cost category :

Medium



7.2.4 Metal Bench Seat with Intermediate Armrest

DESCRIPTION

TIMBERFORM RENAISSANCE bench ref. 2807 supplied by COLUMBIA CASCADE Ltd. Or similar. Lengths 2400mm, 3000mm, 3600mm to be ground fixed (anchor bolt not supplied)

materials:

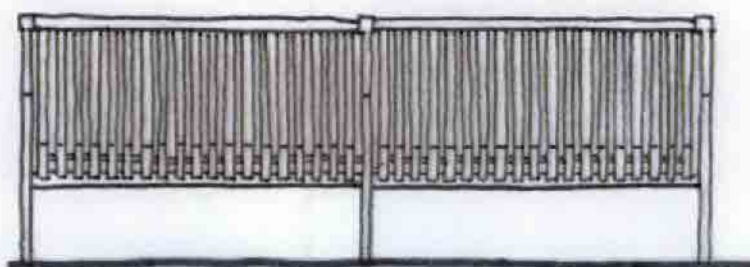
Mild steel. Square frame with flat slats hot dipped galvanised to BS 729

finish:

DULUX TRADE micaceous iron oxide or similar, colour dark grey.

cost category :

Medium



STREET FURNITURE

Sheet
7.3.

Application: All Routes

7.3.1 Tree Guard & Support Frame

DESCRIPTION SUNBURST TREE GUARD 450mm diameter
Ref. SCG 452 GG or 700mm diameter
Ref. SCG 702 GG both grille fixing size
selected to suit size of tree to be planted.
Supplied by FURNITUBES INTERNATIONAL
or similar.

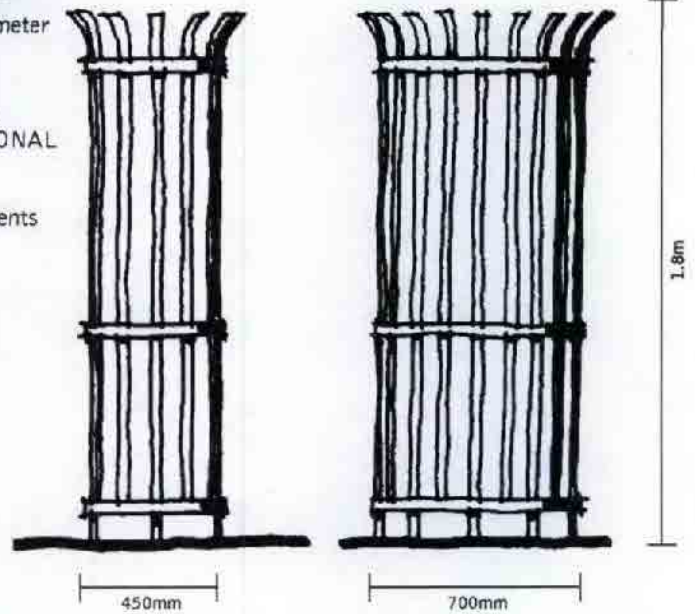
USES: Is advise for on street trees within pavements
to provide protection.

materials: Mild Steel hot dip galvanised to BS 726

finish: Micaceous iron oxide, supplied by
DULUX TRADE or similar.

colour : Dark Grey

cost category : Medium / Low



7.3.2 Tree Grille

DESCRIPTION SUNBURST CIRCULAR TREE GRILLE
Ref. SC 1570 or SUNBURST SQUARE TREE
GRILLE Ref SS 1570 supplied by FURNITUBES
INTERNATIONAL or similar and to be adapted
to make irrigation pipe opening.

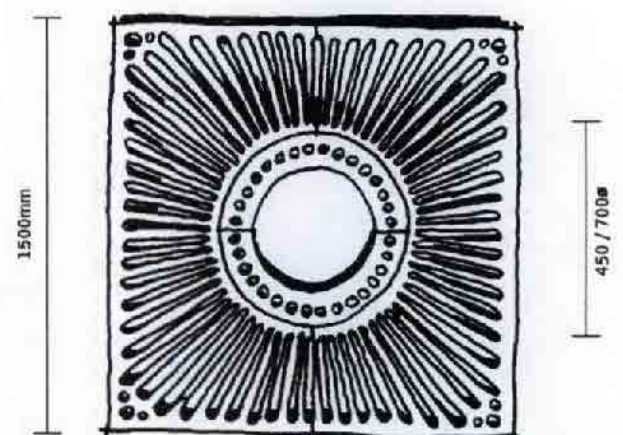
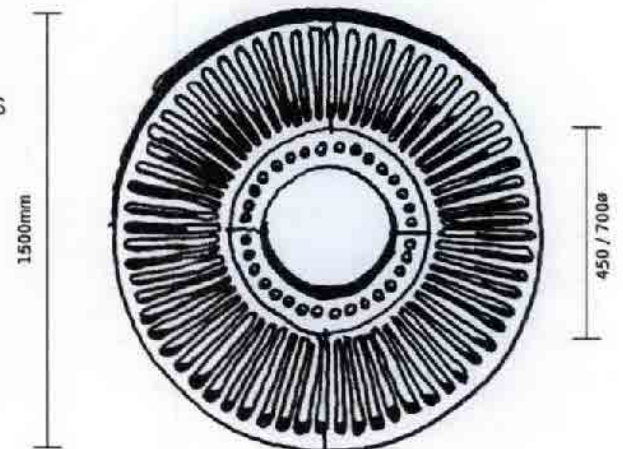
uses: Is advised that all street tree planting in hard
surfacing to be installed with Ref. SSF 1114G
(square) SCF 152 (circular) frame to support
underside and outside edges of the grille, also
supplied by FURNITUBES INTERNATIONAL
or similar (to be compatible with grille)

materials: Cast iron grille, mild steel frame hot dip
galvanised to BS 729.

finish: Micaceous Iron Oxide, dark grey, supplied
by DULUX TRADE or similar.

colour : Dark Grey

cost category : Medium / Low



STREET FURNITURE

Sheet
7.4.

Application: All Routes

7.4.1 Pedestrian Guard Rail - Standard

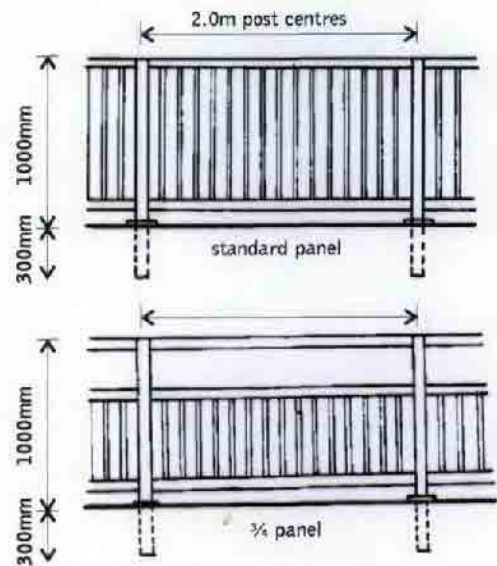
DESCRIPTION Standard pedestrian guard rail complying with BS 7818, 1995 in accordance with the Manual of Contract Documents for Highway Works. Supplied and installed by BACO CONTRACTS.

USES: Pedestrian protection at roadside in accordance with the Design Manual for Roads and Bridges.

materials: Mild Steel complying with BS 7818 1995 class A. Non standard panel lengths & radiused panel to be used where appropriate.

finish: Galvanised in accordance with BS 729.

cost category : Low



7.4.2 Pedestrian Guard Rail - Non Standard

DESCRIPTION Higher quality pedestrian guard rail complying with BS 7818, 1995 in accordance with the Manual of Contract Documents for Highway Works. LINX RAILING SYSTEM, supplied by FURNITUBES or similar.

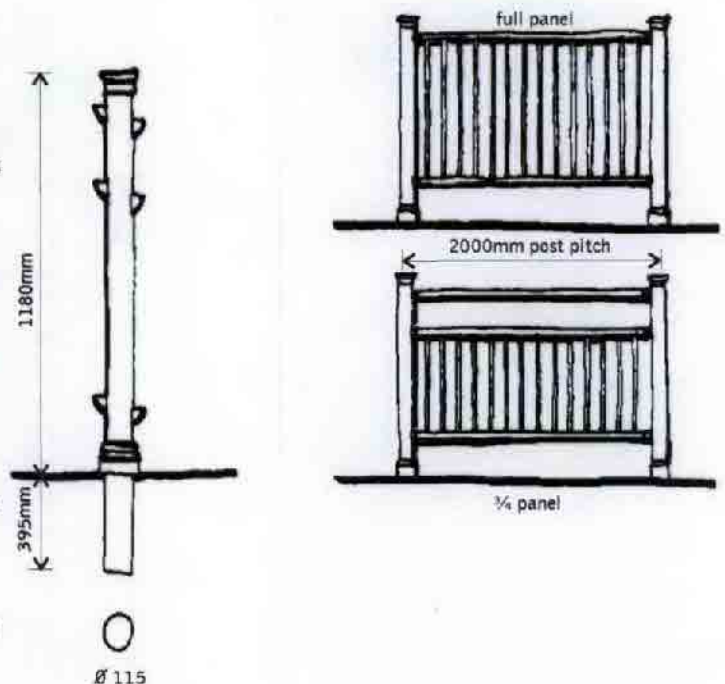
uses: Pedestrian protection at roadside in accordance with the Design Manual for Roads and Bridges, applied in areas of high quality on routes or within Marketgait as indicated in matrix.

materials: EUSTON hollow steel posts available with joint assembly kits to be selected as required to form end post, intermediate post, corner post, 3 way post or 4 way post. Full or 3/4 height (LINX RAILING PANELS) with hollow steel rails and steel infill bars to be used as appropriate.

finish: Galvanised in accordance with BS 729 and high quality paint application.

colour: Metallic grey with several coats of anti UV polyurethane paint applied as finishing surface.

cost category : Medium



STREET FURNITURE

Sheet
7.5.

Application: All Routes

7.5.1 Street Lighting Columns

DESCRIPTION

Tapered tubular one piece lighting column in compliance with BS 5649 and according to the Manual of Contract Documents for Highway Works, supplied and installed by CU PHOSCO LIGHTING or similar approved by The Council's Lighting Department and to comply with all requirements of The Council's Lighting Department.

use:

Lighting at roadside in accordance with the Design Manual for Roads and Bridges.

materials:

One piece hollow steel columns - references as follows:

60mm spigot: 3m - TT303061 3.5m - TT3X3061
4m - TT304061 5m - TT305361

76mm spigot: 3.5m - TT3X3075 4m - TT304375
5m - TT305001 6m - TT506075

6.3m (8m with bracket) - TT508009
8.3m (10m with bracket) - TT610013
10.3m (12m with bracket) - TT612001

Bracket projections from standard range with single or double arm.

Flange plates and foundation bolts to be used as appropriate.
Lanterns supplied to be in compliance with BS4533: Part 102

finish:

Hot dipped galvanised steel to BS729 with additional:

- a) 'T' Wash to outer surface
- b) Bitumen coating to root

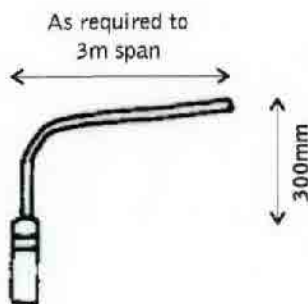
Painted with micaceous ferrous oxide paint.

colour:

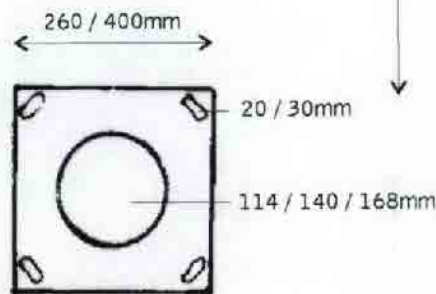
Dark grey.

cost:

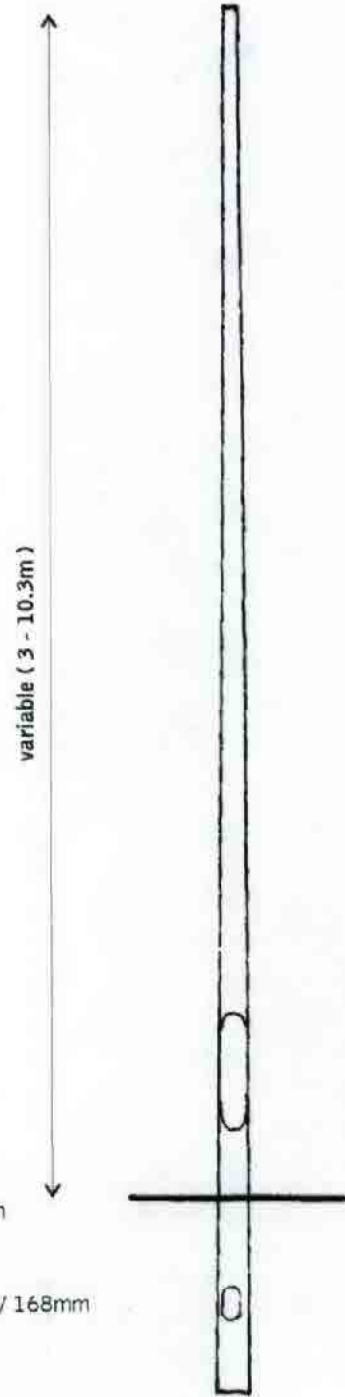
Low



Bracket, with anti rotation protection included.



Flange Plate



Column

Part 8

ROUTE COLOURS

Contents

<i>Sheet</i>	<i>Title</i>	<i>Ref No.</i>	<i>Item</i>
8.1.	Claverhouse	8.1.1	Metal Fences
		8.1.2	Timber Fences
		8.1.3	Street Furniture
		8.1.4	General Planting
		8.1.5	Feature Planting
		8.1.6	Wall, Piers and Caps
8.2.	Claypotts	8.2.1	Metal Fences
		8.2.2	Timber Fences
		8.2.3	Street Furniture
		8.2.4	General Planting
		8.2.5	Feature Planting
		8.2.6	Wall, Piers and Caps
8.3.	Esplanade	8.3.1	Fences
		8.3.2	Street Furniture
		8.3.3	General Planting
		8.3.4	Feature Planting
		8.3.5	Wall, Piers and Caps

Part 8

ROUTE COLOURS

Contents

<i>Sheet</i>	<i>Title</i>	<i>Ref No.</i>	<i>Item</i>
8.4.	Estuary	8.4.1	Metal Fences
		8.4.2	Timber Fences
		8.4.3	Street Furniture
		8.4.4	General Planting
		8.4.5	Feature Planting
		8.4.6	Wall, Piers and Caps
8.5.	Marketgait	8.5.1	Metal Fences
		8.5.2	Timber Fences
		8.5.3	Street Furniture
		8.5.4	General Planting
		8.5.5	Feature Planting
		8.5.6	Wall, Piers and Caps
8.6.	Riverside	8.6.1	Metal Fences
		8.6.2	Timber Fences
		8.6.2	Street Furniture
		8.6.3	General Planting
		8.6.4	Feature Planting
		8.6.5	Wall, Piers and Caps

COLOURS

Sheet
8.1.

Application: Claverhouse

8.1.1 Metal Fences

colour:

RAL No. 6007

Metal work: high performance paint specification applied over course of preparation and primers, including galvanised.

Weldmesh: polyester powder coated.



Bottle Green

Tall Fences



Colour coated weldmesh.

Low Fences



Painted metal railing.

8.1.2 Timber Fences

colour :

Timber: Black
High performance wood stain over suitable preservative treatment.

Stained timber.

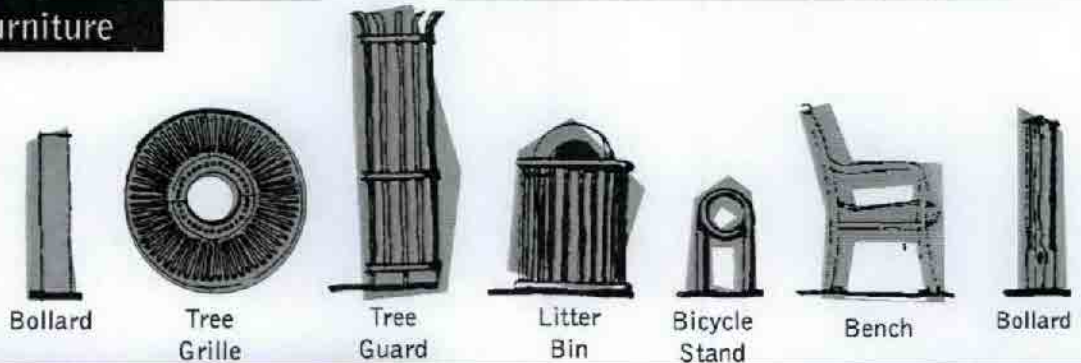


8.1.3 Street Furniture

colour:

Metal : Dark Grey
Micaceous ferrous oxide paint to all street furniture elements.

Timber : Black
High performance wood stain over suitable preservative treatment.



8.1.4 General Planting

colour:

Grey / green - grey



8.1.5 Feature Planting

colour:

White / Pink



8.1.6 Walls, Piers and Caps

colour:

Cast stone pier cap and wall cope, and natural stone - local cast sandstone colour - beige, brown, pink, red.

Cast stone cap and natural stone.



Cast stone cap and painted render.



Paint colour to compliment stone colours using 'earth tints'

COLOURS

Sheet
8.2.

Application: Claypotts

8.2.1 Metal Fences

colour:



Wine Red

RAL No.3005

Metal work: high performance paint specification applied over course of preparation and primers, including galvanised.

Weldmesh: polyester powder coated.

Tall Fences



Colour coated weldmesh.

Low Fences



Painted metal railing.

8.2.2 Timber Fences

colour:

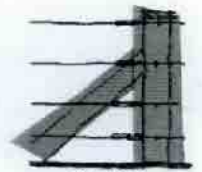
Timber : Black high performance wood stain over suitable preservative treatment.

Tall Fences



Stained timber.

Low Fences



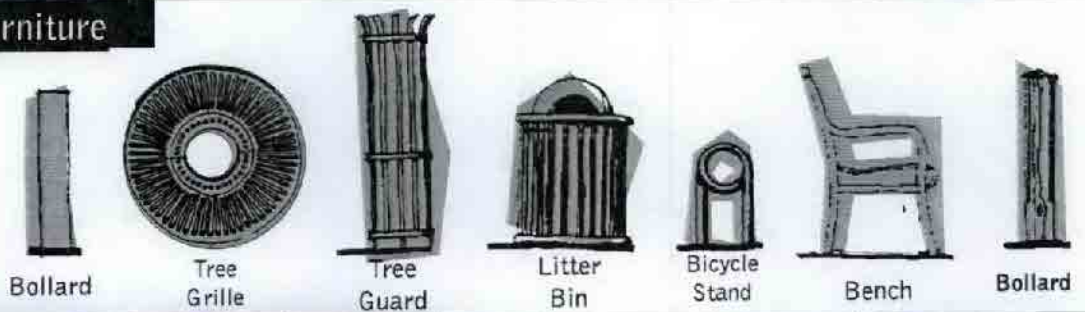
Stained timber.

8.2.3 Street Furniture

colour:

Metal : Black
Micaceous ferrous oxide paint to all street furniture elements.

Timber : Black
High performance wood stain over suitable preservative treatment.



Bollard

Tree Grille

Tree Guard

Litter Bin

Bicycle Stand

Bench

Bollard

8.2.4 General Planting

colour:

Grey / green - grey



8.2.5 Feature Planting

colour:

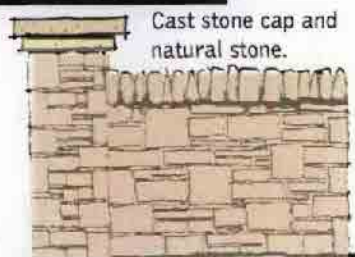
Blue / Purple



8.2.6 Walls, Piers and Caps

colour:

Cast stone pier cap and wall cope, and natural stone - local cast sandstone colour - beige, brown, pink, red.



Cast stone cap and natural stone.

Cast stone cap and painted render..



Paint colour to compliment stone colours using 'earth tints'

COLOURS

Sheet
8.3.

Application: Esplanade

8.3.1 Fences

colour:

RAL No.9005

Metal work: high performance paint specification applied over course of preparation and primers, including galvanised.

Weldmesh: polyester powder coated.



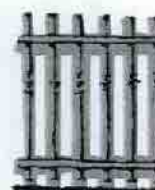
Jet Black

Tall Fences



Colour coated weldmesh.

Low Fences



Painted metal railing.

8.3.2 Street Furniture

colour:

Metal : Dark Grey
Micacious ferous oxide paint to all street furniture elements.

Timber : Black
High performance wood stain over suitable preservative treatment.



Bollard



Tree Grille



Tree Guard



Litter Bin



Bicycle Stand



Bench



Bollard

8.3.3 General Planting

colour:

Grey / green - grey



8.3.4 Feature Planting

colour:

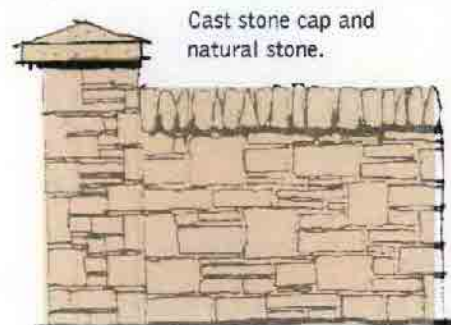
Orange / Red



8.3.5 Walls, Piers and Caps

colour:

Cast stone pier cap and wall cope, and natural stone - local cast sandstone colour - beige, brown, pink, red.



Cast stone cap and natural stone.

COLOURS

Sheet
8.4.

Application: Estuary

8.4.1 Metal Fences

colour:



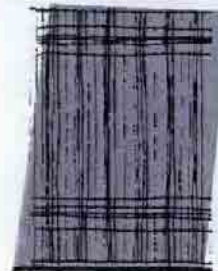
Steel Blue

RAL No.5011

Metal work: high performance paint specification applied over course of preparation and primers, including galvanised.

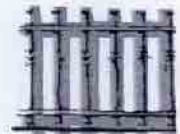
Weldmesh: polyester powder coated.

Tall Fences



Colour coated weldmesh.

Low Fences



Painted metal railing.

8.4.2 Timber Fences

Timber : Black high performance wood stain over suitable preservative treatment.

Tall Fences



Stained timber.

Low Fences



Stained timber.

8.4.3 Street Furniture

colour:

Metal : Black
Micacious ferrous oxide paint to all street furniture elements.

Timber : Black
High performance wood stain over suitable preservative treatment.



Bollard



Tree Grille



Tree Guard



Litter Bin



Bicycle Stand



Bench



Bollard

8.4.4 General Planting

colour:

Grey / green - grey



8.4.5 Feature Planting

colour:

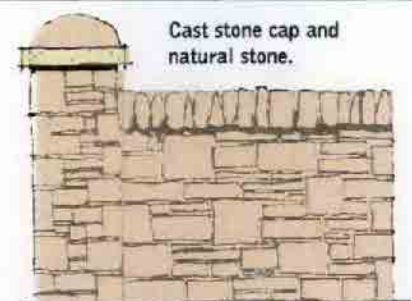
Yellow / Orange



8.4.6 Walls, Piers and Caps

colour:

Cast stone pier cap and wall cope, and natural stone - local cast sandstone colour - beige, brown, pink, red.



Cast stone cap and natural stone.

COLOURS

Sheet
8.5.

Application: Marketgait

8.5.1 Metal Fences

Colour:



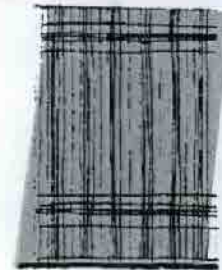
RAL No.7031

Metal work: high performance paint specification applied over course of preparation and primers, including galvanised.

Weldmesh: polyester powder coated.

Blue Grey

Tall Fences



Colour coated weldmesh.

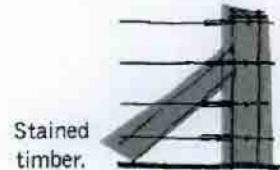
Low Fences



Painted metal railing.

8.5.2 Timber Fences

Timber : Black high performance wood stain over suitable preservative treatment.



Stained timber.

8.5.3 Street Furniture

colour:

Metal : Black
Micacious ferrous oxide paint to all street furniture elements.

Timber : Black
High performance wood stain over suitable preservative treatment.



Tree Grille



Pedestrian Guard Rail



Bollard



Tree Guard



Litter Bin



Bicycle Stand



Bench



Bollard

8.5.4 General Planting

colour:

Grey / green - grey



8.5.5 Feature Planting

colour:

Blue / Purple

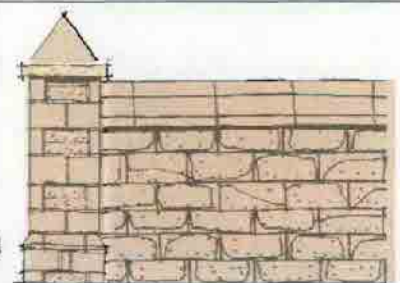


8.5.6 Walls, Piers and Caps

colour:

Cast stone pier cap and wall cope, and natural stone - local cast sandstone colour - beige, brown, pink, red.

Cast stone cap and natural stone.



COLOURS

Sheet
8.6.

Application: Riverside

8.6.1 Metal Fences

Tall Fences

Low Fences

Colour:



RAL No.9005

Metal work: high performance paint specification applied over course of preparation and primers, including galvanised.

Weldmesh: polyester powder coated.



Colour coated weldmesh.



Painted metal railing.

Jet Black

8.6.2 Timber Fences

Timber : Black high performance wood stain over suitable preservative treatment.



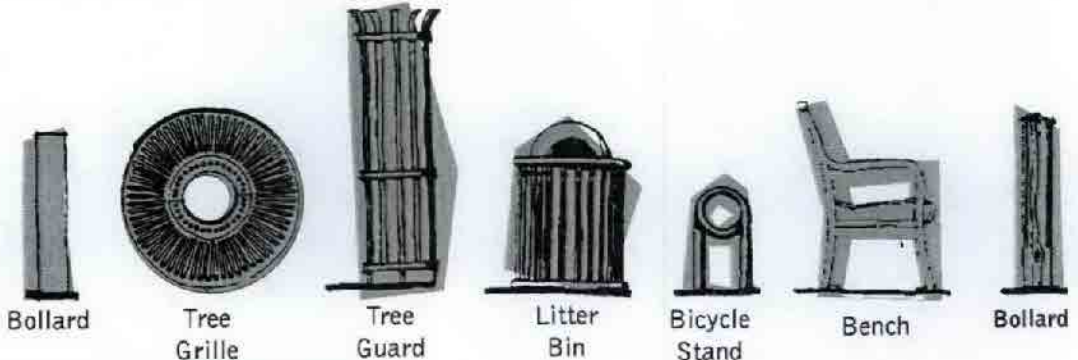
Stained timber.

8.6.3 Street Furniture

colour:

Metal : Black
Micacious ferous oxide paint to all street furniture elements.

Timber : Black
High performance wood stain over suitable preservative treatment.



Bollard

Tree Grille

Tree Guard

Litter Bin

Bicycle Stand

Bench

Bollard

8.6.4 General Planting

colour:

Grey / green - grey



8.6.5 Feature Planting

colour:

Red



8.6.6 Walls, Piers and Caps

colour:

Cast stone pier cap and wall cope, and natural stone - local cast sandstone colour - beige, brown, pink, red.



Cast stone cap and natural stone.

Part 9

DESIGN PRINCIPLES

Contents

<i>Sheet</i>	<i>Title</i>	<i>Ref No.</i>	<i>Item</i>
9.1.	Entrances	9.1.1.	Utility Entrance/Industrial with Narrow Frontage
9.2.	Entrances	9.2.1	Public Access Higher Quality Developments
9.3	Footways	9.3.1	Footway Surfacing Layout Detail
9.4	Road Edges	9.4.1	Central Reservation Surfacing Detail
		9.4.2	Road Edge Refuge Strip Detail

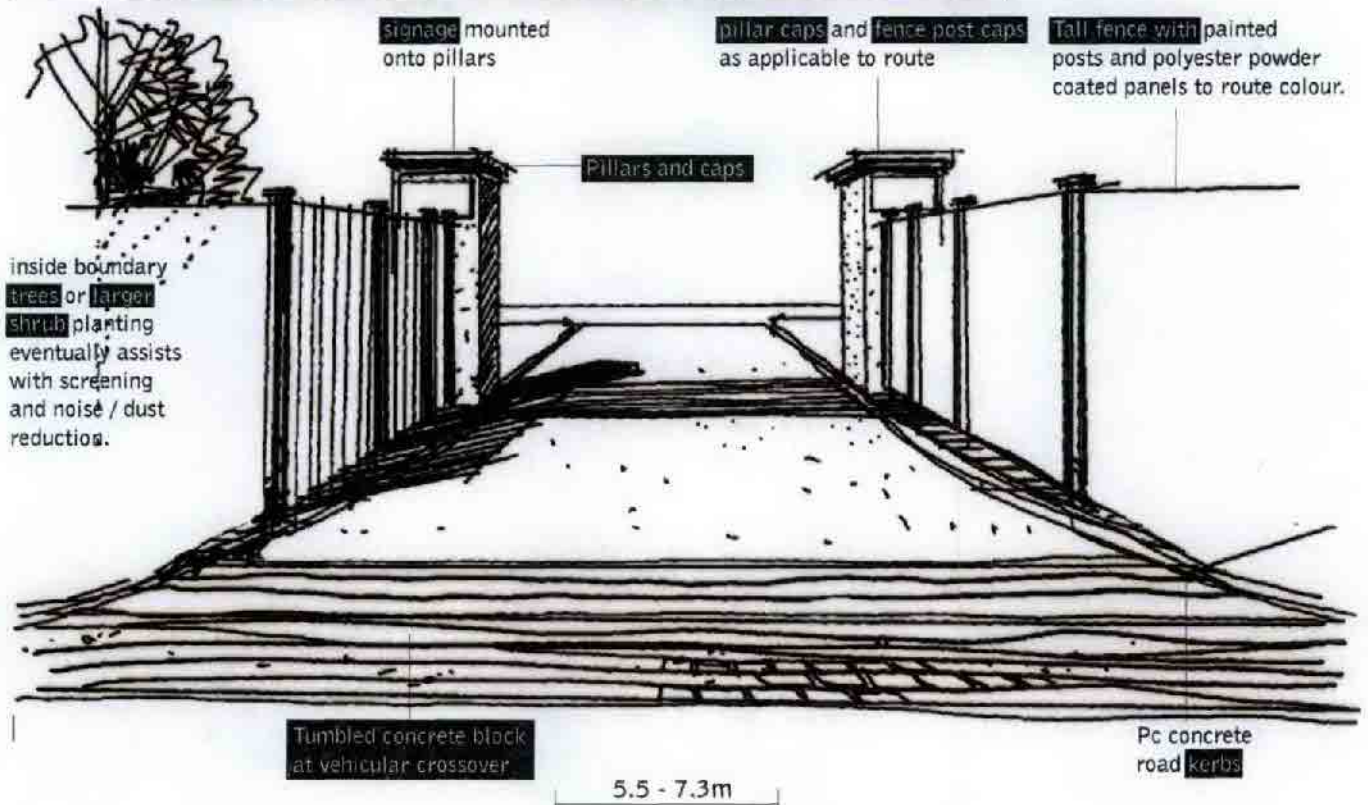
DESIGN PRINCIPLES

ENTRANCES

Sheet
9.1.

Application: All Routes

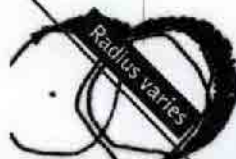
9.1.1 Utility Entrance / Industrial With Narrow Frontage



Narrow frontage

trees or other planting at entrance help emphasise gateway and improve appearance of entrance and internal environs.

trees or shrub planting inside boundary as no space exists outside



granite aggregate block at base of fence to continue quality hard surface materials along road corridor

Tumbled concrete block at entrance threshold

Wider frontage

entrance piers and caps min 15m from carriageway for type E junctions

concrete block road edge strip flanking entrance

Hot rolled asphalt to main area of entrance apron

Hot rolled asphalt footway with PC concrete pin kerb.

Seeded verge.

existing carriageway

tumbled concrete block separating vehicular entrance from road carriageway

Note: all entrances to conform to "Roads Standards" as minimum criteria for layout

DESIGN PRINCIPLES

ENTRANCES

Sheet
9.2.

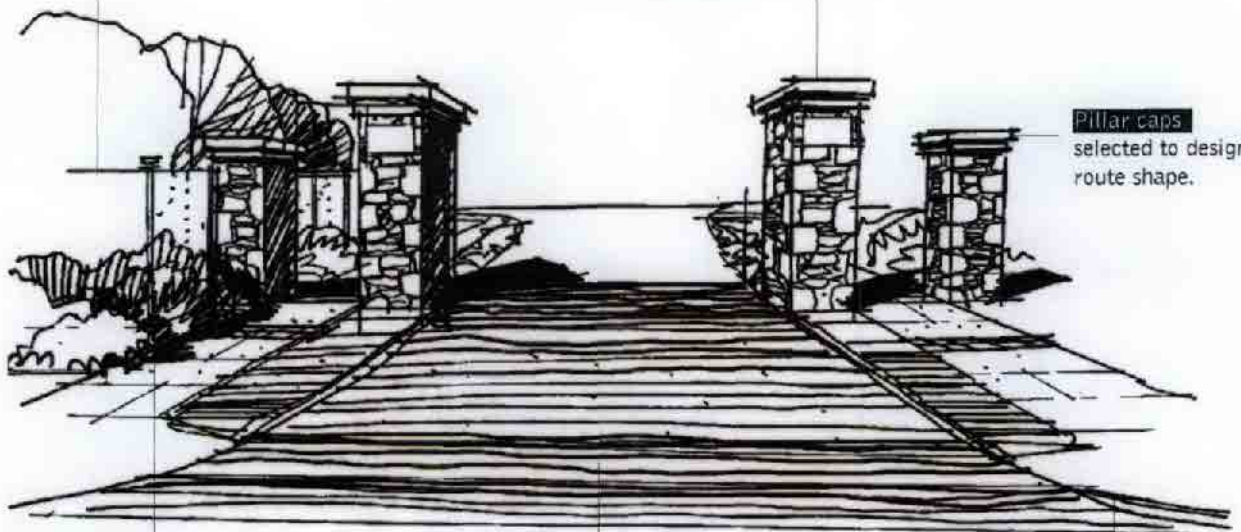
Application: All Routes

9.2.1 Public Access Higher Quality Developments

duty profiled metal tube
painted to route colour.

Pillars stone random coursed rubble
to demarcate vehicle and
pedestrian entrance.

Pillar caps
selected to designated
route shape.



large / medium shrubs
selected according to route.

new sawn granite setts
for road surface

road kerb
granite aggregate.

5.5 - 7.3m

large / medium shrubs
located outwith visibility splay to
screen views from site.

granite aggregate concrete slabs
on footway at site entrance

turf & bulb planting
according to route.

groundcover planting not
to restrict visibility splay

grass verge

existing carriageway

bul nosed dropped granite
aggregate road kerbs at crossing point.

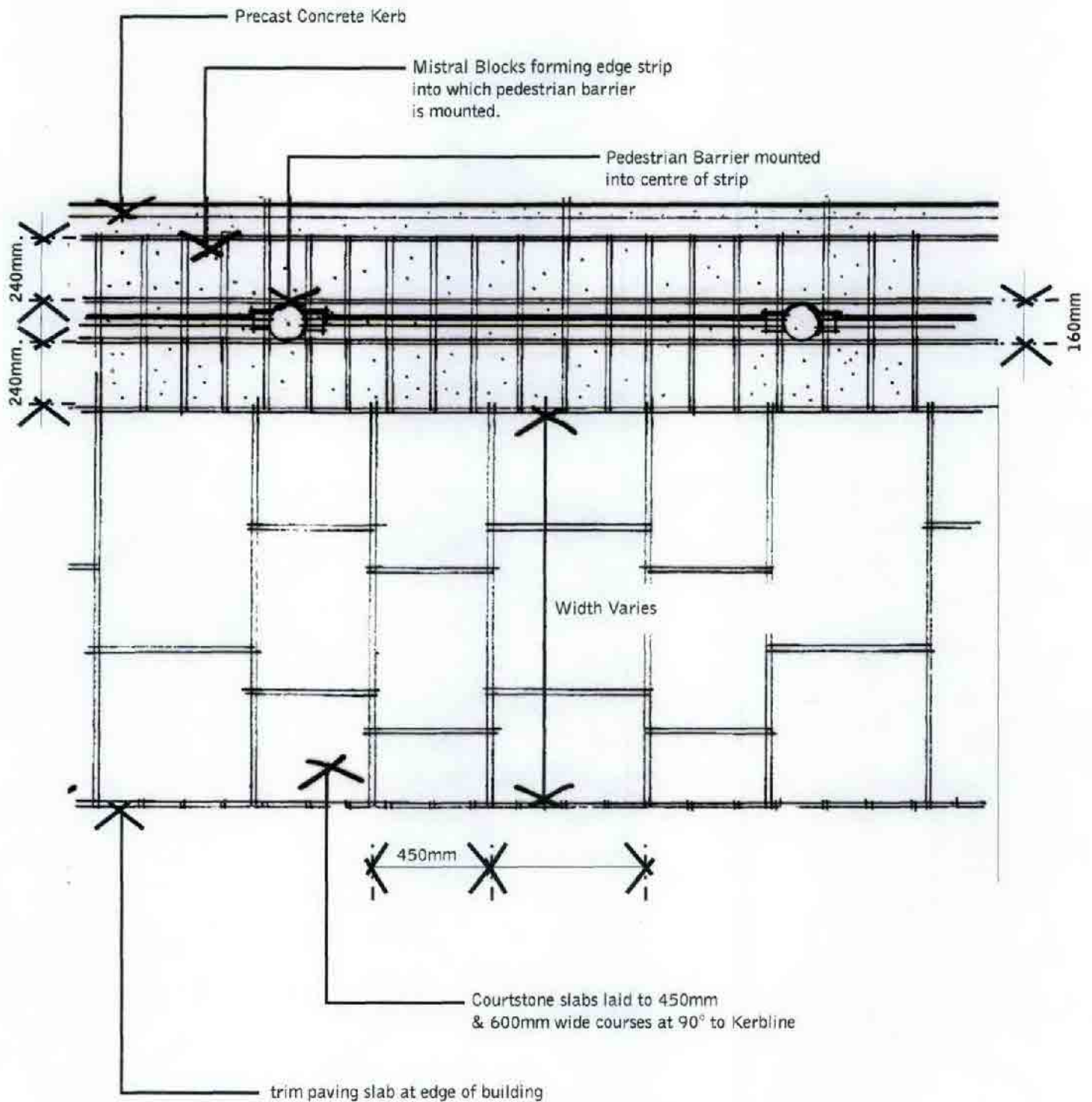
Road edge strip
800mm wide

DESIGN PRINCIPLES FOOTWAYS

Sheet
9.3.

Application: Marketgait

9.3.1 Footway Surfacing Layout Detail



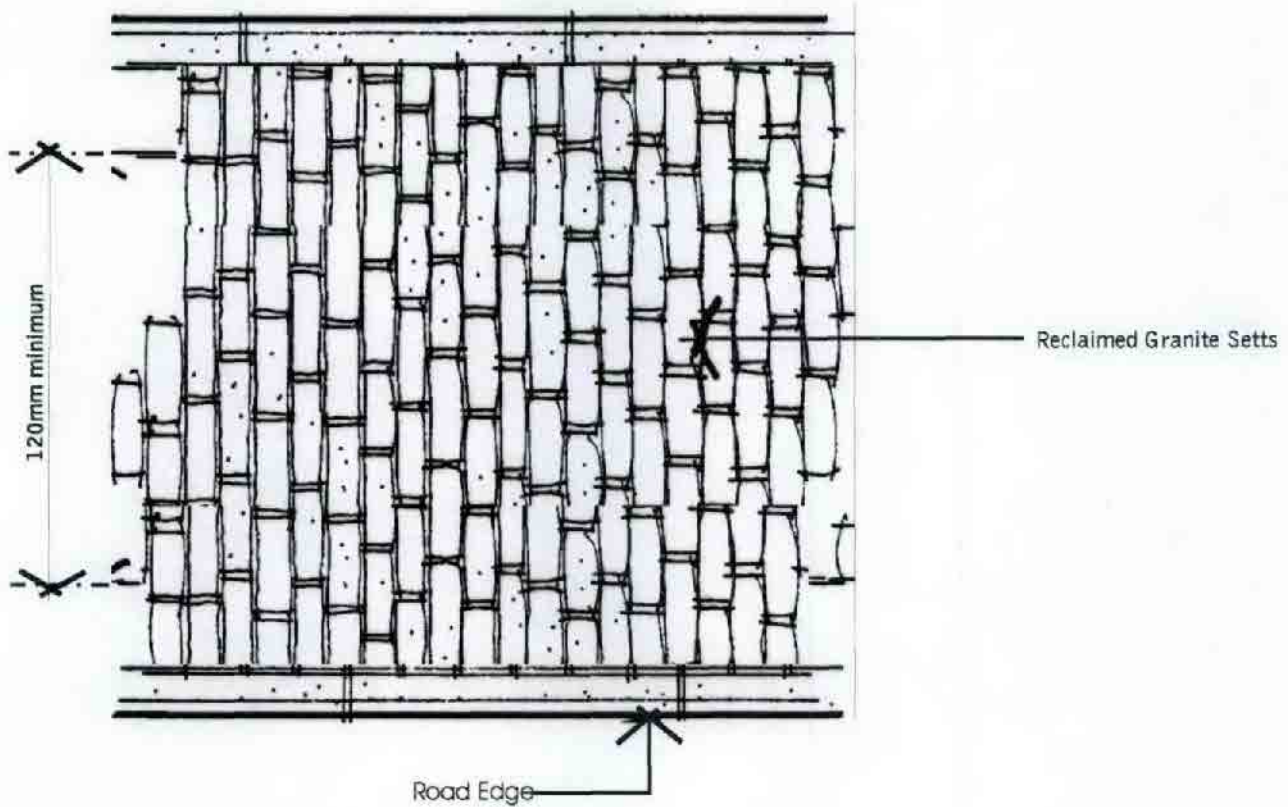
DESIGN PRINCIPLES

ROAD EDGES

Sheet
9.4.

Application: Marketgait

9.4.1 Central Reservation Surfacing Detail



9.4.2 Road Edge Refuge Strip Detail

