

Poole Park
Preamble to Bill of Quantities

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General Directions

- 1 The Bill of Quantities has been prepared in accordance with the Method of Measurement for Highway Works published by The Stationery Office as Section 1 of Volume 4 of the Manual of Contract Documents for Highway Works. The relevant publication date of each page of the Method of Measurement for Highway Works is given in the Schedule of Pages and Relevant Publication Dates.
- 2 (05/01) In the Bill of Quantities the sub-headings and item descriptions identify the work covered by the respective items, read in conjunction with the matters listed against the relevant marginal headings "Item coverage" in Chapter IV of the Method of Measurement for Highway Works, these Preambles and the amendment to the Method of Measurement immediately following these Preambles. The nature and extent of the work is to be ascertained by reference to the Drawings, Specification and Conditions of Contract. The rates and prices entered in the Bill of Quantities shall be deemed to be the full inclusive value of the work covered by the several items including the following, unless expressly stated otherwise:
 - (i) Labour and costs in connection therewith.
 - (ii) The supply of materials, goods, storage and costs in connection therewith including delivery to Site. Taking delivery of materials and goods supplied by others, unloading, storage, and costs in connection therewith.
 - (iii) Plant and costs in connection therewith.
 - (iv) Fixing, erecting and installing or placing of materials and goods in position.
 - (v) Temporary Works.
 - (vi) The effect on the phasing of the Works or any element of the Works to the extent set forth or reasonably implied in 'the documents on which the tender is based.
 - (vii) General obligations, liabilities and risks involved in the execution of the Works set forth or reasonably implied in the documents on which the tender is based.
 - (viii) Establishment charges, overheads and profit.
 - (ix) Waste.
 - (x) Testing carried out by the Contractor in accordance with the particular requirements of Appendix 1/5 including supplying results of tests, reports and certificates.
 - (xi) Supply and delivery of samples to the Overseeing Organisation in accordance with the particular requirements of Appendix 1/6.
 - (xii) Checking, inspecting, examining, measuring and verifying goods, materials and workmanship including supplying results, reports and certificates.

- (xiii) Attendance and transport for sampling and testing carried out by the Overseeing Organisation.
- (xiv) Complying with Quality Assurance requirements of the contract and providing certificates of conformity.
- (xv) Preparation and supply of detailed working drawings.
- (xvi) Awaiting approvals and consent.
- (xvii) Where stipulated complying with the particular requirements of Appendix 1/24.
- (xviii) For complying with the CDM regulations including fulfilling duties of the Principal Contractor and for compliance with all the general statutory requirements with regards to matters of Health and safety

Measurement

- 3** (i) The measurement of work shall be computed net from the dimensions stated in the Contract unless otherwise stated in the Method of Measurement.
- (ii) Where the tender documents specify the Type of Pavement to be constructed then the measurement of work shall be based upon the thinnest pavement construction and surfacing over structures permitted by the Contract for that Type of Pavement. Where the tender documents provide for the Contractor to select the type of safety fence, pavement or buried structure (where the structure is not within Designated Outlines) to be constructed then the measurement of all work in each area so affected shall be based upon the thinnest pavement construction and surfacing over structures permitted by the Contract in that area for the particular type of safety fence, pavement or buried structure the Contractor has elected to construct.

Pricing of Items

- 4** Each individual item shall have a rate or price entered against it. Rates and prices shall be expressed to two decimal places.

Alternative Specified Materials, Designs and Options Within Types of Pavement

- 5** Where in the Contract a choice of alternatives is permitted:
- (i) the description billed and the rates and prices inserted shall be deemed to cover any of the permitted alternative materials or designs the Contractor may elect to use;
 - (ii) and where separate Bills of Quantities are provided within Series 600: Earthworks for each Type of Pavement permitted by the Contract the rates and prices inserted in respect of the earthworks for the particular Type of Pavement shall be deemed to cover the earthworks for any inherent permitted option within the Type of Pavement elected to be constructed by the Contractor;
 - (iii) and where separate Bills of Quantities are provided within Series 700: Pavements for each Type of Pavement permitted the Contract the rates and prices inserted in respect of the particular Type of Pavement shall also be deemed to cover any inherent permitted option within the Type of Pavement elected to be constructed by the Contractor.

In all cases the rates and prices inserted in all Series of the Bill of Quantities shall be deemed to include for any adjustments of work

content, rates, costs and the like occasioned by the choice of alternatives elected to be used or constructed by the Contractor.

**Privately and Publicly
Owned Services or
Supplies**

6 The information in the Contract as to the whereabouts of existing services and mains is believed to be correct but the Contractor shall not be relieved thereby of his obligations under the Contract. The Contractor shall include in his rates and prices for locating and taking measures for the support and full protection of pipes, cables and other apparatus during the progress of the Works obtaining the written consent of the appropriate authority to interrupt the service or supply and for keeping the Overseeing Organisation informed of all arrangements he makes with the owners of privately owned services or supplies, Statutory Undertakers and Public Authorities as appropriate.

Labours

7 Labours in connection with Nominated Sub-contractors shall include:

- (i) in the case of work or services executed - for affording the use of existing working space, access, temporary roads, erected scaffolding, working shelters, staging, ladders, hoists, storage, latrines, messing, welfare and other facilities existing on Site and the provision of protection, water, electricity for lighting and clearing away rubbish and debris arising from the work;
- (ii) in the case of goods, materials or services supplied for taking delivery, unloading, storing, protecting and returning crates, cartons and packing materials.

**Roadworks Overall
Requirements**

8 The Contractor shall allow in his rates and prices for complying with requirements in respect of pavement construction, horizontal alignments, surface levels and surface regularity of pavement courses, dealing with changes in weather conditions, use of surfaces by traffic and construction plant, and general requirements for sub-bases and road bases.

**Work Within and Below
Non-tidal Open Water
or Tidal Water**

9 The Contractor shall allow in his rates and prices for taking measures required to execute work within and below non-tidal open water or tidal water. The Contractor shall include in his rates and prices for any investigations to ascertain actual boundaries, surface levels and ranges affected by non-tidal open water or tidal water.

Dealing with Flow

10 The Contractor shall allow in his rates and prices for taking measures to deal with the existing flow of water, sewage and the like.

**Reimbursement of Fees,
Rates, Taxes and
Continued**

11 The Contractor will be reimbursed the actual price paid by the Contractor in respect of:

**Overseeing
Organisation's
Telephone Calls**

- (i) fees, rates and taxes - the sums certified as properly repayable to the Contractor in accordance with the Contract;
- (ii) Overseeing Organisation's telephone calls - telephone calls charged to the number or numbers allocated to the Overseeing Organisation.

Any other cost, charge or expense in respect of these items shall be allowed for in the rates and prices for temporary accommodation.

Site Limitations and Constraints

12 The Contractor shall allow in his rates and prices for complying with any limitations and constraints on the use of the Site.

Hard Material

13 For the purposes of the Contract the following are designated as Hard Material in accordance with Chapter 1 Definitions, paragraph 1(h)(i):

- (a)* strata;
- (b) those deposits designated by limits shown on the Drawings;
- (c) existing pavements, footways, paved areas (but excluding unbound materials) and foundations in masses in excess of 0.20 cubic metres.

Equivalent Products and Materials

14 Where the Contractor offers an equivalent product or material in place of the one identified or specified, then the rates and prices in the Bill of Quantities shall be deemed to include for all the obligations and costs associated with the incorporation of the equivalent into the Works, including design, provision of data and drawings, certificates, awaiting acceptance, resubmissions and modifications and amendments to the Works.

Unless specifically stated to the contrary in the Contract the measurement of the Works affected by the incorporation of the equivalent products and materials shall be based on the Tender documents and not on the Works as amended and completed to incorporate the equivalent products and materials.

Permanent Works Designed by the Contractor

15 (05/01) Where the Contract requires part(s) of the Permanent Works to be designed by the Contractor, the rates and prices in the Bill of Quantities shall include for all the obligations and costs associated with the incorporation of the Contractor's design into the Works, including design, provision of data and drawings, certificates, awaiting approvals, resubmissions and modifications and amendments to the Works..

Additionally the rates and prices in the Bill of Quantities shall include for the costs of all testing and sampling to be carried out by the Contractor in respect of workmanship, goods and materials incorporated into the Works or to prove the Contractor's design.

Structures Designed by the Contractor

16 In respect of each priced Bill of Quantities comprising a single item for a structure designed by the Contractor, the Contractor shall prepare a priced schedule of quantities. This priced schedule shall be prepared in accordance with the relevant Chapters and Series of the Method of Measurement and submitted to the Overseeing Organisation.

The quantities, rates and prices in the priced schedule of quantities shall in each case, when extended and totalled, give the amount entered in the priced Bill of Quantities against the item for the relevant structure designed by the Contractor.

The priced schedule of quantities shall only be used for Payment Applications and for the valuation of variations ordered under the Contract in connection with structures designed by the Contractor.

Unless specifically stated to the contrary in the Contract the

measurement of the Works affected by the incorporation of the Contractor's design shall be based on the Tender documents and not on the Works as amended and completed to incorporate the Contractor's design.

The parts of the Works included by the Contractor in the priced schedule of quantities shall include all the parts of the Works within the Designated Outline except those designed and scheduled by the Overseeing Organisation as not to be included.

**National Alterations for
The Overseeing
Organisations of
Scotland, Wales and
Northern Ireland**

17 Where a paragraph in Chapter IV of the Method of Measurement for Highway Works (Units and Methods of Measurement) or in the Notes for Guidance on the Method of Measurement for Highway Works or in the Library of Standard Item Descriptions for Highway Works is prefixed by # this indicates that this particular paragraph has a National Alteration for one or more of the Overseeing Organisations of Scotland, Wales or Northern Ireland. The use of national paragraphs is permitted only within the countries to which they specifically apply and they are deemed to replace corresponding paragraphs in the main body of Chapter IV of the Method of Measurement for Highway Works (Units and Methods of Measurement) or in the Notes for Guidance on the Method of Measurement for Highway Works or in the Library of Standard Item Descriptions for Highway Works as appropriate. The National paragraphs correspond to the particular requirements of the National Alterations for the Overseeing Organisations of Scotland, Wales or Northern Ireland contained in Volume 1 of the Manual of Contract Documents for Highway Works. The substitute or additional paragraphs are located at the end of the relevant Series.

Testing

18 (05/01) Testing as paragraph 2(x) above, is in respect of tests to be carried out by the Contractor to verify workmanship, goods and materials incorporated into the permanent works and testing of the permanent works in order to prove the Overseeing Organisation's design as set out in Appendix 1/5.

Checking, inspecting, examining, measuring and verifying goods, materials and workmanship incorporated in the permanent works, as paragraph 2(xii) above, is in respect of other operations set forth or reasonably implied in the Contract to be carried out by the Contractor to demonstrate compliance with the particular requirements of the Contract, or to prove the Overseeing Organisation's design where not separately listed in Appendix 1/5, but excluding trial erection of structural steelwork which shall be measured separately in accordance with Series 1800.

Procedural trials, trial panels and trial areas required to be carried out or constructed as separate operations in advance of the permanent works in order to verify goods, materials and workmanship shall not be measured separately but are included within the item coverage for the relevant Series.

Testing of existing structures and other investigative works shall be individually measured within the relevant Series.

Landscape and Ecology

19 (05/01) The rates and prices inserted in the Bill of Quantities for new Planting, Seeding and Turfing measured in accordance with Volume 4 - Series 3000 include for all post-planting maintenance work required to be carried out in accordance with the Specification and the relevant Appendices.

In order to properly reflect the scope and duration of the planting and post-planting requirements a series of staged payments for the various items of planting, seeding and turfing will be made in accordance with the Staged Payments Schedule.

The Staged Payments Schedule is to be inserted in the Bill of Quantities immediately preceding the collection page for Landscape and Ecology and shall be used for assessing payments due to the Contractor in accordance with the Contract.

**Amendments to the
Method of
Measurement**

20 (05/01) For the purposes of the Contract the Method of Measurement for Highway Works is amended in accordance with the pages immediately following.

**Method of Measurement for Highway Works
Schedule of Pages and Relevant Publication Dates**

Chapter/Series	Page Number	Publication Date
Contents	1	November 2004
	2	May 2005
	3	November 2004
	4 to 7 inclusive	May 2005
Chapter I	1 to 3 inclusive	March 1998
Chapter II	1	March 1998
	2	May 2001
Chapter III	1	March 1998
	2	May 2001
	3 to 12	May 2004
	13	November 2006
	14 to 16 inclusive	May 2005
	17 to 19 inclusive	November 2006
Chapter IV	1	March 1998
100	1 to 2 inclusive	March 1998
	3 to 7 inclusive	May 2001
	8	November 2004
	9 to 11 inclusive	May 2001
	12	November 2004
	13 to 15 inclusive	May 2001
200	1	May 2001
	2 to 3 inclusive	May 2004
	4	May 2001
300	1 to 5 inclusive	May 2001
400	1 to 2 and 4 to 8 inclusive	November 2004
	3	November 2006
500	1 to 5 inclusive	May 2001
	6	November 2004
	7 to 13 inclusive	May 2001
	14	May 2005
	15	May 2001
	16 to 17 inclusive	May 2005
	18	May 2001
	19	November 2003
600	1	May 2002
	2	May 2001
	3	March 1998
	4 to 11 inclusive	November 2004
	12	May 2002
	13 to 14 inclusive	November 2004
	15 to 38 inclusive	May 2001
	N1 to N3 inclusive	May 2002
700	1	May 2001
	2	May 2002
	3	May 2001
	4 to 5 inclusive	May 2002
	6	May 2001
	7 to 9 inclusive	May 2002
	10	May 2001
	11	May 2002
	12 to 13 inclusive	May 2001
	14	May 2002
	15 to 18 inclusive	May 2001

Chapter/Series	Page Number	Publication Date
800)	
900) Not taken up	
1000)	
1100	1 2 3 4 to 5 inclusive 6 7 to 8 inclusive	May 2001 November 2004 May 2001 May 2002 May 2001 May 2005
1200	1 to 2 inclusive 3 to 5 inclusive 6 to 11 inclusive	May 2001 March 1998 May 2001
1300	1 to 3 inclusive	November 2003
1400	1 to 2 inclusive 3 4 to 8 inclusive 9	May 2001 May 2005 May 2001 May 2005
1500	1 to 2 inclusive 3 4 to 7 inclusive 8 to 12 inclusive	May 2001 May 2005 February 2003 May 2001
1600	1 to 2 inclusive 3 to 6 inclusive 7 8 to 19 inclusive	March 1998 May 2001 March 1998 May 2001
1700	1 2 3 4 to 11 inclusive	May 2004 May 2001 May 2004 May 2001
1800	1 2 to 5 inclusive	March 1998 May 2001
1900	1	May 2003
2000	1 2 to 3 inclusive	May 2002 May 2001
2100	1	March 1998
2200	Not taken up	May 2004
2300	1 to 3 inclusive March	March 1998
2400	1 to 3 inclusive 4	May 2001 March 1998
2500	1 to 2 inclusive	May 2001
2600	Not taken up	
2700	1	May 2001
3000	1 to 15 inclusive	May 2001
5000	1 to 2 inclusive	May 2003

Series 700: Pavements

Tree Root Protection System

Paragraphs 82-85 inclusive are added:

- | | |
|-------------|---|
| Units | 82 The units of measurement shall be
(i) tree root protection system.....square metre |
| Measurement | 83 The measurement of tree protection system shall calculated using the width of the top surface of the system. |
| Itemisation | 84 Separate items shall be provided for tree root protection system in accordance with Part II, Paragraphs 3 and 4, and the following: |

Group	Feature
I	1. Tree Root Protection System.
	1. Different thicknesses and specification.
	1. In carriageway, hardshoulder and hardstrip..

Tree Root Protection System

Item coverage

- 85** The items for application of tree root protection system shall, in accordance with the Preamble to Bill of Quantities General Directions include for:
- (a) supply of cellular units and associated fixings and components;
 - (b) trial areas and trials;
 - (c) laying and assembly and fixing in accordance with manufacturer's instructions;
 - (d) supply and installation of stone infill in accordance with system requirements.
 - (e) coring of existing carriageway to allow a hydraulic connection to the existing sub base.

Series 1100: Kerbs, Footways and Paved Areas

Kerbs, Channels , Edgings, Combined Drainage and Kerb Blocks and Linear Drainage Channel Systems

Kerbs, Channels, Edgings, Combined Drainage and Kerb Blocks and Linear Drainage Channel Systems

- 21** The items for footways and paved areas shall in accordance with the Preamble to Bill of Quantities General Directions include for:

Item Coverage

(cc) *delete full stop and add a semicolon.*

Add:

(dd) softwood stakes.

Tree Root Zone Products

Paragraphs 34 – 41 inclusive are added:

Units

- 34** The units of measurement shall be:

- (i) rootspace assembly.....square metre
- (ii) single inlet aeration system.....number
- (iii) root deflecting system.....number
- (iv) irrigation system.....number
- (iv) anchor system.....number

Measurement

- 35** The measurement of the rootspace assembly shall be calculated using the width of the top surface of the system. The measurement of the single inlet aeration system, root deflecting system, irrigation system and the anchor system shall be by the number required by the Contract

Itemisation

- 36** Separate items shall be provided for tree root zone products in accordance with Chapter II Paragraphs 3 and 4 and the following:

Group	Feature
I	1. Tree Root Zone Products.
II	1. Rootspace Assembly
	2. Single inlet aeration system
	3. Root deflecting system
	4. Irrigation system
	5. Anchor system

Rootspace Assembly	37	The items for rootspace assembly shall in accordance with the Preambles to Bill of Quantities General Directions include for:
Item Coverage		(a) supply of cellular units and associated fixings and components including reinforcing mesh and geonet ; (b) trial areas and trials; (c) laying and assembly and fixing in accordance with manufacturer's instructions; (d) drainage layer (e) sub - base;
Single Inlet Aeration System	38	The items for single inlet aeration system shall in accordance with the Preambles to Bill of Quantities General Directions include for:
Item Coverage		(a) supply of aeration system and associated fixings; (b) fixing of inlets within surface and bituminous sealant and (c) assembling and installing of aeration system in accordance with manufacturer's instructions.
Root Deflector System	39	The items for root deflector system shall in accordance with the Preambles to Bill of Quantities General Directions include for:
Item Coverage		(a) supply, assembly and placement of root deflectors to fit, including cutting, lapping, jointing, sealing and ground fixings and (b) supply and application of sealants for laps and joints
Irrigation System	40	The items for irrigation system shall in accordance with the Preambles to Bill of Quantities General Directions include for:
Item Coverage		(a) supply of irrigation system and associated fixings ; (b) fixing of inlets within surface and bituminous sealant and (c) assembling and installing of irrigation system in accordance with manufacturer's instructions.
Anchor System	41	The items for anchor system shall in accordance with the Preambles to Bill of Quantities General Directions include for:
Item Coverage		(a) supply, assembly and installation of anchor system as required by the manufacturer's instructions, including ground anchors.

Application of Weedkiller

Paragraphs 42 - 44 inclusive are added:

Units

42 The units of measurement shall be

(i) application of weedkiller.....square metre

Itemisation

43 Separate items shall be provided for application of weedkiller in accordance with Part II, Paragraphs 3 and 4, and the following:

Group	Feature
I	1. Application of weedkiller.
	1. Footways and Paved Areas.

Application of Weedkiller

Item coverage

44 The items for application of weedkiller shall, in accordance with the Preamble to Bill of Quantities General Directions include for:

(a) preparation of site;

(b) applying weedkiller in accordance with the manufacturer's instructions;