
LIBRARY OF STANDARD ITEM DESCRIPTIONS FOR ROAD WORKS

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| | |
|-------------|--|
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Introduction

General

1 The Library has been compiled in accordance with the itemisation features of the Method of Measurement for Highway Works (MMRW). This is a master library which can be used direct for manual billing, or as the basis from which individual libraries can be constructed to suit available computer facilities. Whatever process is followed the end result should produce directly comparable Bills of Quantities.

The root narratives contain numbered inserts which can, by the use of a numbered variable from the appropriate numbered group, produce unique item descriptions for all standard constructional work. For example, the information in the Specification or on the Drawings may show the requirements for fencing as “1.3 metres high standard four rail fencing with timber posts and stockproofing of a single strand of galvanized barbed wire”.

By referring to **Series 300 : Fencing**, a unique item description can be built up as follows:

Root Narrative Item 2 - 10*2* fencing 7* high with 8*3*4*5*

Variables

10*(o) = no entry - no entry to be made against 10*
2*(ii) = four rail - selected from Group 2*
7*(i) = 1.3 metres - unique height
8*(iv) = timber posts - selected from Group 8*
3*(i) = one strand of galvanized barbed wire-selected from Group 3*
4*(o) = no entry - no entry to be made against 4*
5*(o) = no entry - no entry to be made against 5*

Similarly, by referring to **Series 1600: Piling and Embedded Retaining Walls**, a unique item description for piling requirements, which may be shown as, “vertical 3.5 metre 600 mm diameter cast-in-place piles in main piling” would be as follows:

Root Narrative Item 8 - 6*7* cast-in-place piles 16*3*5* in length 2*

Variables

6*(i) = vertical - selected from Group 6*
7*(vii) = 600 mm diameter - selected from Group 7*
16*(o) = no entry - no entry to be made against 16*
3*(o) = no entry - no entry to be made against 3*
5*(i) = not exceeding 5 metres - selected from Group 5*
2*(ii) = in main piling - selected from Group 2*

Amendments to the Library

2 Any variable not listed in a group but belonging to a group generically may be added to it and numbered sequentially. Items which cannot be compiled from the existing root narratives are rogue items and if required they should be drafted on the same principles as the Library and inserted as necessary in the Bill of Quantities.

As in the case of the MMRW, rogue items not contained in the Library but which are found to be consistently necessary and are felt to be of national application should be forwarded to the Roads Directorate for evaluation and possible incorporation into any standard amendments which may be issued.

Series 100: Preliminaries

| <i>Item</i> | <i>Root Narrative</i> | <i>Unit</i> |
|---|--|-------------|
| Temporary Accommodation | | |
| 1 | 1* of principal offices for the Overseeing Organisation 2* | item |
| 2 | 1* of principal laboratories for the Overseeing Organisation 2* | item |
| 3 | 1* of portable offices for the Overseeing Organisation 2*4* | item |
| 4 | 1* of portable laboratories for the Overseeing Organisation 2*4* | item |
| 5 | 1* of offices and messes for the Contractor | item |
| 6 | 1* of stores and workshops for the Contractor | item |
| 7 | Servicing of principal offices for the Overseeing Organisation 3* | item |
| 8 | Servicing of principal laboratories for the Overseeing Organisation 3* | item |
| 9 | Servicing of portable offices for the Overseeing Organisation 3*4* | item |
| 10 | Servicing of portable laboratories for the Overseeing Organisation 3*4* | item |
| Vehicles for the Overseeing Organisation | | |
| 11 | 5* for the Overseeing Organisation 3* | v.day |
| Communication System for the Overseeing Organisation | | |
| 12 | Communication system for the Overseeing Organisation 3* | item |
| Operatives for the Overseeing Organisation | | |
| 13 | 6* for the Overseeing Organisation 3* | op.day |
| Information Board | | |
| 14 | Information board 7* | no |
| Traffic Safety and Management | | |
| 15 | Traffic safety and management | item |
| 16 | Traffic safety and management for landscape and ecology | item |
| 17 | Taking measures for or construction, maintenance, removal of contraflow arrangements | item |
| Temporary Diversion for Traffic | | |
| 18 | 8* temporary diversion for traffic at location 9* listed in Appendix 1/18 | item |
| 19 | 8* temporary diversions for traffic at those locations listed in the | |

| | | |
|----|---|------|
| | Appendix 1/18 but not measured individually | item |
| 20 | 8* temporary diversions for traffic at those locations proposed by the Contractor | item |

Recovery Vehicles

| | | |
|----|--------------------------------------|-------|
| 21 | Establishment of 5* recovery vehicle | item |
| 22 | Maintenance of 5* recovery vehicle | v.day |
| 23 | Removal of 5* recovery vehicle | item |

Progress Photographs

| | | |
|----|--|----|
| 24 | Set of progress photographs 10* | no |
| 25 | Set of aerial progress photographs 10* | no |
| 26 | Additional progress photographs 10* | no |
| 27 | Additional aerial progress photographs 10* | no |

Temporary Closed Circuit (CCTV) System for the Monitoring of Traffic

| | | |
|----|--|------|
| 28 | Installation of temporary closed circuit (CCTV) system for the monitoring of traffic | item |
| 29 | Maintenance of temporary closed circuit (CCTV) system for the monitoring of traffic | day |
| 30 | Removal of temporary closed circuit (CCTV) system for the monitoring of traffic | item |

Temporary Automatic Speed Camera System for the Enforcement of Mandatory Speed Limits at Roadworks

| | | |
|----|--|------|
| 31 | Installation of temporary automatic speed camera system for the enforcement of mandatory speed limits at roadworks | item |
| 32 | Maintenance of temporary automatic speed camera system for the enforcement of mandatory speed limits at roadworks | day |
| 33 | Removal of temporary automatic speed camera system for the Enforcement of mandatory speed limits at roadworks | item |

| <i>Group</i> | <i>Variables</i> |
|--------------|--|
| 1* | (i) =Erection (ii) =Servicing (iii) =Dismantling |

| | | |
|-----|-----------|---|
| 2* | (o) | =No entry |
| † | (i) | =provided by the Overseeing Organisation |
| 3* | (o) | =No entry |
| | (i) | =until completion of the works |
| | (ii) | =after completion of the works |
| 4* | (o) | =No entry |
| | (i) | =at place of fabrication or manufacture |
| 5* | (i) | =light |
| | (ii) | =heavy |
| 6* | (i) | =Chainman/Driver |
| | (ii) | =Driver/Laboratory handyman |
| | (iii) etc | =[stated Type] |
| 7* | (i) etc | =[stated Type] |
| 8* | (i) | =Taking measures for or construction of |
| | (ii) | =Maintenance of measures for or construction of |
| | (iii) | =Removal of measures for or construction of |
| 9* | (i) etc | =[stated reference] |
| 10* | (i) | =in monochrome |
| | (ii) | =in colour |

Note

† The Specification for Highway Works does not cover this item. If the compiler wishes to use this variable then appropriate details must be given in Contract-specific Specification Clauses or on the Drawings.

Series 200: Site Clearance

| <i>Item</i> | <i>Root Narrative</i> | <i>Unit</i> |
|--|---|----------------|
| Site Clearance | | |
| 1 | General site clearance | ha |
| 2 | General site clearance area 1* | ha |
| 3 | Demolition of building or structure 1* | item |
| 4 | Demolition of group of buildings or structures 1* | item |
| 5 | Partial demolition of individual structures 1* | item |
| Take Up or Down and Set Aside for Re-use or Remove to Store or Tip off Site | | |
| 6 | Take up or down 2*3*4* | m ³ |
| 7 | Take up or down 2*5* paving 6* | m ² |
| 8 | Take up or down 2*4* brickwork 6* | m ² |
| 9 | Take up or down 2*7*19* | m |
| 10 | Take up or down 2*8*9* safety fencing 11* | m |
| 11 | Take up or down 2*10*4*13* | m |
| 12 | Take up or down 2*12* fence 13* | m |
| 13 | Take up or down 2*14*4*19* | m |
| 14 | Take up or down 2*15*16* | m |
| 15 | Take up or down 2*17*18*19* | no |
| 16 | Take up or down 2*20* | no |

| <i>Group</i> | <i>Variables</i> |
|--------------|---|
| 1* | (i) etc =[stated reference] |
| 2* | (i) =and set aside for reuse (ii) =and remove to store off Site (iii) =and remove to tip off Site |
| 3* | (i) =blockwork (ii) =stonework |
| 4* | (i) etc =[stated Type] |
| 5* | (i) =precast concrete slab (ii) =stone flag (iii) =brick (iv) =cobble |

| | | |
|-----|-----------|--|
| | (v) | =granite sett |
| | (vi) | =block |
| | (vii) etc | =[stated Type] |
| 6* | (i) etc | =[stated depth or thickness] |
| 7* | (i) | =precast concrete kerbs |
| | (ii) | =granite kerbs |
| | (iii) | =precast concrete channels |
| | (iv) | =precast concrete edgings |
| | (v) | =combined drainage and kerb blocks |
| | (vi) | =linear drainage channel systems |
| | (vii) etc | =[stated Type and feature] |
| 8* | (i) | =untensioned single sided |
| | (ii) | =untensioned double sided |
| | (iii) | =tensioned single sided |
| | (iv) | =tensioned double sided |
| 9* | (i) | =corrugated beam |
| | (ii) | =open box beam |
| | (iii) | =rectangular hollow section beam |
| 10* | (i) | =safety barriers |
| | (ii) | =pedestrian guardrails |
| 11* | (i) | =on timber posts |
| | (ii) | =on steel posts |
| | (iii) | =attached to structures |
| 12* | (i) | =post and rail |
| | (ii) | =cleft chestnut |
| | (iii) | =chain link |
| | (iv) etc | =[stated Type] |
| 13* | (o) | =No entry |
| | (i) | =300 mm high |
| | (ii) | =375 mm high |
| | (iii) | =450 mm high |
| | (iv) etc | =525 mm high (and so on in steps of 75 mm) |
| 14* | (i) | =copings |
| | (ii) | =string courses |
| | (iii) etc | =[stated named feature] |
| 15* | (i) | =power cable |
| | (ii) | =communications cable |
| 16* | (i) | =laid singly |
| | (ii) | =laid as a pair |
| | (iii) etc | =[stated number] |
| 17* | (i) | =bench seat |
| | (ii) | =cattle trough |
| | (iii) etc | =permanent bollard [stated type] |
| | (iv) | =parking meter |
| | (v) | =pedestrian crossing lights |
| | (vi) | =lighting column including bracket arm and lantern |
| | (vii) | =wall mounting including bracket arm and lantern |
| | (viii) | =traffic sign |

| | | |
|-----|-----------|--|
| | (ix) | =traffic sign including posts |
| | (x) | =internally illuminated traffic sign |
| | (xi) | =internally illuminated traffic sign including posts |
| | (xii) | =externally illuminated traffic sign |
| | (xiii) | =externally illuminated traffic sign including posts |
| | (xiv) | =timber gate |
| | (xv) | =metal gate |
| | (xvi) | =stile |
| | (xvii) | =road stud |
| | (xviii) | =individual blocks |
| | (xix) | =individual masonry features |
| | (xx) | =individual stones |
| | (xxi) | =chamber cover and frame |
| | (xxii) | =gully grating and frame |
| | (xxiii) | =feeder pillars |
| | (xxiv)etc | =[stated named feature] |
| 18* | (o) | =No entry |
| | (i) etc | =[stated Type] |
| 19* | (o) | =No entry |
| | (i) etc | =[stated Size] |
| 20* | (i) etc | =[stated Type of signal] |
| | (ii) etc | =[stated Type of motorwarn assembly] |
| | (iii) etc | =[stated Type of emergency telephone] |
| | (iv) | =camera pole |
| | (v) etc | =[stated Type of cabinet] |
| | (vi) etc | =[stated Type of equipment] |

Series 300: Fencing

| <i>Item</i> | <i>Root Narrative</i> | <i>Unit</i> |
|---|--|----------------|
| Fencing, Gates and Stiles | | |
| 1 | Temporary fencing 1* | m |
| 2 | 10*2* fencing 7* high with 8*3*4*5* | m |
| 3 | 10*6* fencing 7* high with 8*3*4*5* | m |
| 4 | Concrete foundation to timber 15* for 13* fencing | no |
| 5 | 10*9*11* gate 7* high 14* wide | no |
| 6 | 10*9*11* gate 7* high 14* wide with 5* | no |
| 7 | 10*9* stile 12*7* high 14* wide | no |
| 8 | 10*9* stile 12*7* high 14* wide with 5* | no |
| 9 | 13* 16* to existing 2* fencing 7* high | m |
| 10 | 13* 16* to existing 6* fencing 7* high | m |
| 11 | 13* 16* to existing 9*11* gate 7* high 14* wide | no |
| 12 | Fenced tree guards 13* | no |
| Remove from Store and Re-erect Fencing, Gates and Stiles | | |
| 13 | Remove from store and re-erect 10*2* fencing 7* high with 8*3*4*5* | m |
| 14 | Remove from store and re-erect 10*6* fencing 7* high with 8*3*4*5* | m |
| 15 | Concrete foundation to timber 15* for re-erected 13* fencing | no |
| 16 | Remove from store and re-erect 10*9*11* gate 7* high 14* wide | no |
| 17 | Remove from store and re-erect 10*9*11* gate 7* high 14* wide with 5* | no |
| 18 | Remove from store and re-erect 10*9* stile 12*7* high 14* wide | no |
| 19 | Remove from store and re-erect 10*9* stile 12*7* high 14* wide with 5* | no |
| Excavation in Hard Material | | |
| 20 | Extra over excavation for excavation in Hard Material in fencing works | m ³ |

| <i>Group</i> | <i>Variables</i> |
|--------------|--|
| 1* | (i) =Type 1 (ii) =Type 2 (iii) =Type 3 (iv) =Type 4 (v) etc =[stated Type] |
| 2* | (i) =three rail (ii) =four rail (iii) =five rail (iv) etc =[stated Type] |
| 3* | (o) =No entry (i) =one strand of galvanized barbed wire (ii) =two strands of galvanized barbed wire (iii) =three strands of galvanized barbed wire (iv) etc =[stated material] |
| 4* | (o) =No entry (i) =one strand of galvanized plain wire (ii) =two strands of galvanized plain wire (iii) =three strands of galvanized plain wire (iv) =one strand galvanized plastic coated plain wire (v) =two strands galvanized plastic coated plain wire (vi) =three strands galvanized plastic coated plain wire (vii) etc =[stated material] |
| 5* | (o) =No entry (i) =galvanized pig netting (ii) =plastic coated pig netting (iii) =galvanized sheep netting (iv) =galvanized large hexagon sheep netting (v) =galvanized small hexagon chicken netting (vi) =galvanized chain link (vii) =plastic coated chain link (viii) etc =[stated material] |
| 6* | (i) =plastic coated chain link (ii) =galvanized chain link (iii) =cleft chestnut pale (iv) =mild steel bar (v) =wrought iron bar (vi) =woven wire (vii) =strained wire (viii) =close boarded (ix) =timber palisade (x) =woven wood (xi) etc =[stated material] |
| 7* | (i) etc =[unique height] |
| 8* | (i) =concrete posts (ii) =concrete posts with cranked top (iii) =concrete posts with bonded plastic coated extension arm (iv) =timber posts (v) =timber posts with bonded plastic coated extension arm |

| | | |
|-----|------------|--|
| | (vi) | =steel angle posts |
| | (vii) | =steel angle posts with cranked top |
| | (viii) | =steel angle posts with extension arm |
| | (ix) | =plastic coated steel RHS posts |
| | (x) | =plastic coated steel RHS posts with cranked top |
| | (xi) | =plastic coated steel RHS posts with extension arm |
| | (xii) | =plastic coated steel pylon posts |
| | (xiii) | =steel standard and pillars |
| | (xiv) | =cast iron posts |
| | (xv) | =wrought iron posts |
| | (xvi) | =mild steel posts |
| | (xvii) etc | =[stated Type or material] |
| 9* | (i) | =steel tubular frame |
| | (ii) | =timber |
| | (iii) etc | =[stated material] |
| 10* | (o) | =No entry |
| | (i) | =Painted |
| 11* | (i) | =single field |
| | (ii) | =half mesh single field |
| | (iii) | =extra wide single field |
| | (iv) | =double field |
| | (v) | =Type 1 wicket |
| | (vi) | =Type 2 wicket |
| | (vii) | =kissing |
| | (viii) | =bridle |
| | (ix) etc | =[stated Type] |
| 12* | (i) | =Type 1 |
| | (ii) | =Type 2 |
| | (iii) etc | =[stated Type] |
| 13* | (i) etc | =[stated Type] |
| 14* | (i) etc | =[unique width] |
| 15* | (i) | =main posts |
| | (ii) | =straining posts |
| | (iii) | =struts |
| | (iv) | =intermediate posts |
| 16* | (i) | =wire |
| | (ii) | =wire mesh |

Series 400: Safety Fences, Safety Barriers and Pedestrian Guardrails

| <i>Item</i> | <i>Root Narrative</i> | <i>Unit</i> |
|--|--|-------------|
| Beam Safety Fences | | |
| 1 | Untensioned 3*2*12* | m |
| 2 | Tensioned 3*2*12* | m |
| 3 | 4* driven post 9* for 3*2* | no |
| 4 | 4* post 9* for setting in concrete or socket for 3*2* | no |
| 5 | 8* surface mounted post 9* fixed to structure or foundation for 3*2* | no |
| 6 | Mounting bracket 10* fixed to structure for 3*2* | no |
| 7 | Terminal section for untensioned 3*2* | no |
| 8 | Terminal section for tensioned 3*2* | no |
| 9 | Full height anchorage for 3*2* | no |
| 10 | Expansion joint anchorage for 3*2* | no |
| 11 | 11* connection of 3*2* to bridge parapet | no |
| 12 | Connection piece for 3* open box beam to 3* corrugated beam | no |
| 13 | 6* concrete foundation for post for 2* | no |
| 14 | Concrete foundation 11* spanning filter drain for post for 2* | no |
| 15 | 6* socketed foundation for post for 2* | no |
| Remove from Store and Re-erect Beam Safety Fences | | |
| 16 | 1* untensioned 3*2*12* | m |
| 17 | 1* tensioned 3*2*12* | m |
| 18 | 1*4* driven post 9* for 3*2* | no |
| 19 | 1*4* post 9* for setting in concrete or socket for 3*2* | no |
| 20 | 1*8* surface mounted post 9* fixed to structure or foundation for 3*2* | no |
| 21 | 1* mounting bracket 10* fixed to structure for 3*2* | no |
| 22 | 1* terminal section for untensioned 3*2* | no |
| 23 | 1* terminal section for tensioned 3*2* | no |
| 24 | 1* full height anchorage for 3*2* | no |
| 25 | 1* expansion joint anchorage for 3*2* | no |
| 26 | 1*11* connection of 3*2* to bridge parapet | no |
| 27 | 1*11* connection piece for 3* open box beam to 3* corrugated beam | no |
| 28 | 6* concrete foundation for post 1* for 2* | no |
| 29 | Concrete foundation 13* spanning filter drain for post 1* for 2* | no |
| 30 | 6* socketed foundation for post 1* for 2* | no |

| | | |
|--|---|----|
| Post Extension Unit | | |
| 31 | Post extension unit 11* | no |
| Raising Existing Sockets | | |
| 32 | Raising existing sockets 11* | no |
| Wire Rope Safety Fences | | |
| 33 | Wire rope | m |
| 34 | 4* driven 5* | no |
| 35 | 4*5* for setting in concrete or socket | no |
| 36 | 8* surface mounted post fixed to structure or foundation | no |
| 37 | 6* intermediate anchorage | no |
| 38 | 6* end anchorage | no |
| 39 | 7*6* concrete foundation for post | no |
| 40 | 40 7*6* socketed foundation for post | no |
| 41 | Concrete foundation 11* spanning filter drain for post | no |
| Concrete Safety Barriers | | |
| 42 | 13* concrete safety barrier 14* | m |
| 43 | 13* concrete safety barrier termination 15* | no |
| 44 | 13* concrete safety barrier 15* transition to 3*2* | no |
| Pedestrian Guardrails and Handrails | | |
| 45 | 11* pedestrian guardrails 16* high 17* | m |
| 46 | 11* handrails 16* high 17* | m |
| Loading Tests on Post Foundations | | |
| 47 | Loading test on post foundation carried out by Contractor for post type 11* size 18* | no |
| 48 | Loading test on post foundation carried out by Overseeing Organisation for post type 11* size 18* | no |

| <i>Group</i> | <i>Variables</i> |
|--------------|--|
| 1* | (i) =remove from store and re-erect (ii) =removed from store and re-erected |
| 2* | (i) =corrugated beam |

| | | |
|-----|-----------|--|
| | (ii) | =open box beam |
| | (iii) | =open box beam with standard stiffeners |
| | (iv) etc | =open box beam with non-standard stiffeners [stated Type] |
| | (v) | =rectangular hollow section beam size 100 mm x 100 mm |
| | (vi) | =rectangular hollow section beam size 100 mm x 200 mm |
| | (vii) | =double rail open box beam |
| 3* | (i) | =single sided |
| | (ii) | =double sided |
| | (iii) | =top fixed |
| | (iv) | =side fixed |
| 4* | (o) | =No entry |
| | (i) | =short |
| | (ii) | =long |
| | (iii) etc | =non-standard [stated Type] |
| 5* | (i) | =line post |
| | (ii) | =deflection post |
| | (iii) | =height restraining post |
| 6* | (o) | =No entry |
| | (i) | =standard |
| | (ii) etc | =non standard [stated Type] |
| 7* | (i) | =in situ |
| | (ii) | =precast |
| 8* | (i) etc | =Fixed height [stated height] |
| | (ii) | =Adjustable |
| | (iii) etc | =Non-standard [stated Type] |
| 9* | (o) | =No entry |
| | (i) etc | =with off-set brackets [stated Type] |
| | (ii) | =with standard spacers |
| | (iii) etc | =with non-standard spacers [stated Type] |
| 10* | (o) | =No entry |
| | (i) etc | =on adaptor platform [stated Type] |
| 11* | (i) etc | =[stated Type] |
| 12* | (i) | =straight or curved exceeding 120 metres radius |
| | (ii) | =curved exceeding 50 metres radius but not exceeding 120 metres radius |
| | (iii) | =curved not exceeding 50 metres radius |
| 13* | (i) | =permanent vertical |
| | (ii) | =higher permanent vertical |
| 14* | (i) | =straight or curved exceeding 50 metres radius |
| | (ii) | =curved not exceeding 50 metres radius |
| 15* | (o) | =No entry |
| | (i) etc | =[stated Type] |
| 16* | (i) etc | =[unique height] |
| 17* | (o) | =No entry |
| | (i) etc | =formed to radius of [unique radius] metres |

18* (i) etc =[stated size]

Series 500: Drainage and Service Ducts

| <i>Item</i> | <i>Root Narrative</i> | <i>Unit</i> |
|--|--|---------------------------|
| Drains and Service Ducts (excluding Filter Drains, Narrow Filter Drains and Fin Drains) | | |
| 1 | 1* diameter drain specified design group 2*3*4*5* | m |
| 2 | 1* diameter 6* drain 7*3*4*5* | m |
| 3 | 1* diameter service duct specified design 9*3*4*5* | m |
| 4 | 1* diameter 6* service duct 7*3*4*5* | m |
| 5 | Adjustment on last item for variation greater than 150 mm above or below the average depth of ... per 25 mm of variation in excess of 150 mm | m (rate only required) |
| Filter Drains | | |
| 6 | 1* diameter filter drain in trench specified design group 2*4*5* | m |
| 7 | 1* diameter 6* filter drain in trench specified design type 10*4*5* | m |
| 8 | 1* diameter 6* filter drain in trench with 8*11* filter material 4*5* | m |
| 9 | Adjustment on last item for variation greater than 150 mm above or below the average depth of ... per 25 mm of variation in excess of 150 mm | m (rate only required) |
| 10 | 11* filter material contiguous with filter drain | m ³ |
| 11 | 12* sub-base material | m ³ |
| 12 | 13* lightweight aggregate infill | m ³ |
| 13 | Excavate and replace 8*11* filter material 4* | m ³ |
| Fin Drains and Narrow Filter Drains | | |
| 14 | Fin drain specified design group 2* depth not exceeding 1.5 metres | m |
| 15 | Fin drain 14* depth not exceeding 1.5 metres | m |
| 16 | Narrow filter drain specified design group 2* depth not exceeding 1.5 metres | m |
| 17 | Narrow filter drain 15* depth not exceeding 1.5 metres | m |
| Connections | | |
| 18 | Connection of 1* diameter pipe to existing 1* diameter drain or existing piped culvert 37* | no |

| | | |
|----|---|----|
| 19 | Connection of 1* diameter pipe to existing chamber 37* | no |
| 20 | Connection of 1* diameter drain to permanently severed land or mole drain 37* | no |

Chambers and Gullies

| | | |
|----|---|----|
| 21 | Chamber specified design group 16* 36* with 17* and frame depth to invert 18* | no |
| 22 | Chamber specified design group 16* with 17* and frame depth to uppermost surface of base slab 18* | no |
| 23 | 19* chamber 9* with 17* and frame depth to invert 18* | no |
| 24 | 19* chamber 9* with 17* and frame depth to uppermost surface of base slab 18* | no |
| 25 | 20* gully specified design group 9* with 17* and frame | no |
| 26 | 21*20* gully with 17* and frame | no |

Headwalls and Outfall Works

| | | |
|----|------------------------------|----|
| 27 | Headwall 22*23* to pipe 24* | no |
| 28 | Revetment 22*23* to pipe 24* | no |

Soft Spots and Other Voids

| | | |
|----|--|----------------|
| 29 | Excavation of soft spots and other voids in bottom of trenches, chambers and gullies | m ³ |
| 30 | Filling of soft spots and other voids in bottom of trenches, chambers and gullies with 25* | m ³ |

Supports Left in Excavation

| | | |
|----|------------------------------|----------------|
| 31 | 35* supports 27* left in 26* | m ² |
|----|------------------------------|----------------|

Drainage and Service Ducts in Structures (Including Reinforced Earth Structures and Anchored Earth Structures)

| | | |
|----|--|------|
| 32 | 28* substructure - end supports | item |
| 33 | 28* substructure - intermediate supports | item |
| 34 | 28* superstructure | item |
| 35 | 28* reinforced earth structure | item |
| 36 | 28* anchored earth structure | item |

Filling to Pipe Bays and Verges on Bridges

| | | |
|----|---|----------------|
| 37 | Filling to pipe bays and verges on bridges with 29* | m ³ |
|----|---|----------------|

Replacement, Raising or Lowering of Covers and Gratings on Existing Chambers and Gullies

| | | |
|----|---|----|
| 38 | Replacement of 31*17* cover and frame on 31*19* chamber | no |
| 39 | Replacement of 31*17* grating and frame on 31*34* gully | no |
| 40 | 30* the level of 31*17* cover and frame on 31*19* chamber 32* | no |
| 41 | 30* the level of 31*17* grating and frame on 31*34* gully 32* | no |

Remove from Store and Reinstall Chamber Covers and Frames, and Gully Gratings and Frames

| | | |
|----|---|----|
| 42 | Remove from store and reinstall 31*17* cover and frame on 19* chamber | no |
| 43 | Remove from store and reinstall 31*17* grating and frame on 34* gully | no |

Grouting up of Existing Drains and Service Ducts

| | | |
|----|---|---|
| 44 | Grouting up of existing 1* diameter drain and service duct with 33* | m |
|----|---|---|

Excavation in Hard Material

| | | |
|----|---|----------------|
| 45 | Extra over excavation for excavation in Hard Material in drainage | m ³ |
|----|---|----------------|

Concrete Bagwork

| | | |
|----|-------------------------|----------------|
| 46 | Concrete bagwork 38*39* | m ³ |
|----|-------------------------|----------------|

Cleaning Existing Drainage Systems

| | | |
|----|--|------|
| 47 | Cleaning 40*31*41* | m |
| 48 | Cleaning of bridge drainage system 41* | item |
| 49 | Cleaning of chambers 31*41* | no |
| 50 | Cleaning of gullies 31*41* | no |

Group

Variables

| | | |
|----|--------|------------------|
| 1* | (i) | =75 mm internal |
| | (ii) | =100 mm internal |
| | (iii) | =150 mm internal |
| | (iv) | =200 mm internal |
| | (v) | =225 mm internal |
| | (vi) | =250 mm internal |
| | (vii) | =300 mm internal |
| | (viii) | =375 mm internal |

| | | | |
|----|------------|---|--|
| | (ix) | =400 mm internal | |
| | (x) | =450 mm internal | |
| | (xi) | =500 mm internal | |
| | (xii) | =525 mm internal | |
| | (xiii) | =600 mm internal | |
| | (xiv) | =675 mm internal | |
| | (xv) | =700 mm internal | |
| | (xvi) | =750 mm internal | |
| | (xvii) | =800 mm internal | |
| | (xviii) | =825 mm internal | |
| | (xix) | =900 mm internal | |
| | (xx) | =One number 100 mm internal | |
| | (xxi) | =Two number 100 mm internal | |
| | (xxii) | =Three number 100 mm internal | |
| | (xxiii) | =Four number 100 mm internal | |
| | (xxiv) etc | =[stated number and diameter] | |
| 2* | (i) | =2 | |
| | (ii) | =3 | |
| | (iii) | =4 | |
| | (iv) | =5 | |
| | (v) | =6 | |
| | (vi) | =7 | [Note. These group reference numbers allow for all |
| | (vii) | =8 | types of bed combination. Where a particular bed |
| | (viii) | =9 | is excluded from any one group the group |
| | (ix) | =10 | reference should be followed by the suffix X and |
| | (x) | =11 | the excluded bed type, eg 3XD] |
| | (xi) | =12 | |
| | (xii) | =13 | |
| | (xiii) | =14 | |
| | (xiv) | =15 | |
| | (xv) etc | =16 [for fin drains only] | |
| | (xvi) etc | =[stated Group] | |
| 3* | (i) | =in trench | |
| | (ii) | =in heading | |
| | (iii) | =by jacking or thrust boring | |
| | (iv) | =suspended on discrete supports | |
| 4* | (o) | =No entry | |
| | (i) | =in side slopes of cuttings or side slopes of embankments | |
| 5* | (i) | =depth to invert not exceeding 2 metres, average depth to invert ... | |
| | (ii) etc | =depth to invert exceeding 2 metres but not exceeding 4 metres (and so on in stages of 2 metres), average depth to invert ... | |
| 6* | (i) | =vitrified clay - standard strength | |
| | (ii) | =vitrified clay - extra strength | |
| | (iii) | =vitrified clay - super strength | |
| | (iv) | =vitrified clay - higher strength | |
| | (v) | =vitrified clay - perforated | |
| | (vi) | =concrete strength Class L | |
| | (vii) | =concrete strength Class M | |
| | (viii) | =concrete strength Class H | |
| | (ix) | =concrete strengthened by glass fibre rovings or galvanized steel fibres | |
| | (x) | =concrete - perforated | |

| | | |
|-----|------------|--|
| | (xi) | =concrete - porous |
| | (xii) | =concrete - standard |
| | (xiii) | =asbestos cement Class L |
| | (xiv) | =asbestos cement Class M |
| | (xv) | =asbestos cement Class H |
| | (xvi) | =plastic - glass reinforced |
| | (xvii) | =iron - ductile Class K9 |
| | (xviii) | =UPVC |
| | (xix) | =UPVC - perforated or slotted |
| | (xx) | =plastic |
| | (xxi) | =plastic - perforated |
| | (xxii) | =corrugated steel |
| | (xxiii) | =vitrified clay |
| | (xxiv) | =ductile cast iron |
| | (xxv) | =ultrarib |
| | (xxvi) etc | =[stated Type] |
| 7* | (o) | =No entry |
| | (i) | =on bed Type A |
| | (ii) | =on bed Type B |
| | (iii) | =on bed Type F |
| | (iv) | =on bed Type N |
| | (v) | =on bed Type S |
| | (vi) | =on bed Type T |
| | (vii) | =on bed Type Z |
| | (viii) etc | =[on stated Type of bedding detail] |
| 8* | (i) etc | =[stated material] |
| 9* | (i) etc | =[stated Type for ducts] |
| | (ii) etc | =[stated Type for chambers and street gullies] |
| 10* | (i) | =Type G |
| | (ii) | =Type H |
| | (iii) | =Type I |
| | (iv) | =Type J |
| | (v) | =Type K |
| | (vi) | =Type L |
| | (vii) | =Type M |
| | (viii) etc | =[stated Type] |
| 11* | (i) | =Type A |
| | (ii) | =Type B |
| | (iii) | =Type C |
| 12* | (i) | =Granular Type 1 |
| | (ii) | =Granular Type 2 |
| 13* | (i) etc | =[stated Type] |
| 14* | (o) | =No entry |
| | (i) | =Type 5 |
| | (ii) | =Type 6 |
| | (iii) | =Type 7 |
| 15* | (o) | =No entry |
| | (i) | =Type 8 |
| | (ii) | =Type 9 |
| | (iii) etc | =[stated Type] |

| | | |
|-----|--|---|
| 16* | (i) (ii) (iii) (iv) (v) (vi) (vii) (viii) (ix) etc | =Type 1 =Type 2 =Type 3 =Type 4 =Type 5 =Type 6 =Type 7 =Type 8 =[stated Group or Type] |
| 17* | (i) etc (ii) etc | =[stated Type of cover] =[stated Type of grating] |
| 18* | (i) (ii) etc | =not exceeding 1 metre =exceeding 1 metre but not exceeding 2 metres (and so on in steps of 1 metre) |
| 19* | (i) (ii) (iii) etc (iv) | =Brick =Precast concrete =In situ concrete grade/mix [direct entry] =Corrugated galvanized steel |
| 20* | (i) (ii) | =Trapped =Untrapped |
| 21* | (i) (ii) (iii) (iv) etc | =Precast concrete =Sumpless =Cast iron =In situ cast [stated type] |
| 22* | (i) etc | =[stated Type] |
| 23* | (o) (i) (ii) (iii) (iv) etc | =No entry =in brickwork =in mass concrete =in reinforced concrete =[stated material] |
| 24* | (i) (ii) (iii) (iv) | =not exceeding 100 mm internal diameter =exceeding 100 mm but not exceeding 300 mm internal diameter =exceeding 300mm but not exceeding 600mm internal diameter =exceeding 600mm but not exceeding 900mm internal diameter |
| 25* | (i) (ii) etc (iii) etc | =pipe bedding material =in situ concrete mix [direct entry] =acceptable material class [direct entry] |
| 26* | (o) (i) (ii) (iii) | =No entry =trench =pits =heading |
| 27* | (i) etc | =[stated Type] |
| 28* | (i) (ii) | =Drainage of =Service ducts in |

| | | |
|-----|---|---|
| 29* | (i) etc | =[stated material] |
| 30* | (i) (ii) | =Raise =Lower |
| 31* | (i) etc | =[unique size as required] |
| 32* | (i) (ii) etc | =150 mm or less =exceeding 150 mm but not exceeding 300 mm (and so on in stages of 150 mm) |
| 33* | (i) (ii) etc | =cement/PFA grout =[stated Type] |
| 34* | (i) (ii) (iii) (iv) | =precast concrete =vitrified clay =cast iron =in situ concrete |
| 35* | (i) (ii) (iii) etc | =Timber =Steel =[stated material] |
| 36* | (i) (ii) (iii) (iv) (v) (vi) etc | =a =b =c =d =e =[stated sub-type] |
| 37* | (i) (ii) etc | =depth to invert not exceeding 2 metres =depth to invert exceeding 2 metres but not exceeding 4 metres (and so on in stages of 2 metres) |
| 38* | (i) (ii) etc | =in headwalls =[stated location] |
| 39* | (o) (i) | =No entry =with battered face |
| 40* | (i) (ii) (iii) (iv) | =piped drainage system =drainage channels =linear drainage system =combined drainage and kerb system |
| 41* | (i) etc | =[stated location] |

Series 600: Earthworks

| <i>Item</i> | <i>Root Narrative</i> | <i>Unit</i> |
|---|---|----------------|
| Excavation | | |
| 1 | Excavation of acceptable material Class 5A | m ³ |
| 2 | Excavation of acceptable material excluding Class 5A in 3* | m ³ |
| 3 | Excavation of acceptable material excluding Class 5A in 4*5* in depth | m ³ |
| 4 | Excavation of unacceptable material 2* in 3* | m ³ |
| 5 | Excavation of unacceptable material 2* in 4*5* in depth | m ³ |
| Excavation in Hard Material | | |
| 6 | Extra over excavation for excavation in Hard Material in 6* | m ³ |
| Processing of Unacceptable Material Class U1 | | |
| 7 | Processing of unacceptable material class U1 7* into 8* acceptable material | m ³ |
| Deposition of Fill | | |
| 8 | Deposition of acceptable material 9* in 10* | m ³ |
| Disposal of Material | | |
| 9 | Disposal of 11* | m ³ |
| Imported Fill | | |
| 10 | Imported acceptable material 12* in 10* | m ³ |
| 11 | Imported topsoil Class 5B | m ³ |
| Compaction of Fill | | |
| 12 | Compaction of acceptable material 9* in 10* | m ³ |
| Soil Stabilisation | | |
| 13 | Soil stabilisation 13* with 14* | m ³ |
| Geotextiles | | |
| 14 | Geotextile 15*16* | m ² |

Soft Spots and Other Voids

| | | |
|----|--|----------------|
| 15 | Excavation of soft spots and other voids 17* | m ³ |
| 16 | Filling of soft spots and other voids 17* with 18* | m ³ |

Disused Sewers, Drains, Cables, Ducts, Pipelines and the Like Occurring at Formation or Sub-formation Level; Disused Basements, Cellars and the Like and Gullies

| | | |
|----|---|----------------|
| 17 | Removal of disused 19*20* with 21* of cover to formation level | m |
| 18 | Backfilling of disused 19*20* with 21* of cover to formation level with 18* | m ³ |
| 19 | Backfilling of disused basements, cellars and the like with 18* | m ³ |
| 20 | Backfilling of disused gullies 20* with 18* | no |

Supports Left in Excavation

| | | |
|----|------------------------------------|----------------|
| 21 | 22*23* supports left in excavation | m ² |
|----|------------------------------------|----------------|

Topsoiling and Storage of Topsoil

| | | |
|----|--|----------------|
| 22 | Topsoiling 24* thick to surfaces sloping 25* to the horizontal | m ² |
| 23 | Permanent storage of topsoil | m ³ |

Completion of Formation and Sub-formation

| | | |
|----|--------------------------|----------------|
| 24 | Completion of 28* on 29* | m ² |
|----|--------------------------|----------------|

Lining of Watercourses

| | | |
|----|---------------------------------|----------------|
| 25 | Lining 30*31* with 32*24* thick | m ² |
|----|---------------------------------|----------------|

Clearing of Existing Ditches

| | | |
|----|-----------------------------------|---|
| 26 | Clearing of existing ditch at 33* | m |
|----|-----------------------------------|---|

Ground Improvement - Establishment of Plant

| | | |
|----|--|------|
| 27 | Establishment of dynamic compaction plant at 33* | item |
| 28 | Establishment of vibrated stone columns plant at 33* | item |

Ground Improvement - Dynamic Compaction

| | | |
|----|---|----|
| 29 | Dynamic compaction in 34* compaction with 35* pounder | m |
| 30 | Dynamic compaction plant standing time | hr |
| 31 | 12* material in granular blanket | t |

Ground Improvement - Vibrated Stone Columns

| | | |
|----|---|----|
| 32 | Vibrated stone column 65* installed by 66* in columns 67* | m |
| 33 | Vibrated stone column plant standing time | hr |

Gabion Walling and Mattresses

| | | |
|----|--|----------------|
| 34 | Gabion walling with 36* mesh 37* filled with 24* Class 6G material 38* | m ³ |
| 35 | Mattress with 36* mesh 37* filled with 24* Class 6G material installed 25* to the horizontal 38* | m ³ |

Crib Walling

| | | |
|----|--|----------------|
| 36 | Crib walling 39*40*41*42* and 43* infill | m ² |
|----|--|----------------|

Filling and Caps to Mine Working, Well, Swallow Hole and the Like

| | | |
|----|----------------------|----------------|
| 37 | Filling 44* with 43* | t |
| 38 | Caps to 44* with 45* | m ³ |

Ground Anchorages - Ground Anchorage Plant

| | | |
|----|--|------|
| 39 | Establishment of ground anchorage plant at 33* | item |
|----|--|------|

Ground Anchorages

| | | |
|----|--|---|
| 40 | Ground anchorages 39*47* in length in 34* anchorages | m |
|----|--|---|

Ground Anchorages - Waterproofing Anchorage Boreholes

| | | |
|----|--|---|
| 41 | Waterproofing borehole by 48* grouting | m |
|----|--|---|

Instrumentation and Monitoring - Boring Plant

| | | |
|----|--------------------------------------|------|
| 42 | Establishment of boring plant at 33* | item |
|----|--------------------------------------|------|

Instrumentation and Monitoring - Boring Holes

43 Boring 49* holes 50* in depth m

Instrumentation and Monitoring - Instrumentation

44 Installation of 51* no
45 Installation of 52* tubing 53* in length or depth m
46 Installation of 52* cabling 53* in length or depth m
47 48* grouting 53* in length or depth m

Instrumentation and Monitoring - Instrument Hut or Cabinet

48 54* instrument 55* for the Overseeing Organisation 56* item

Instrumentation and Monitoring - Monitoring Equipment

49 Monitoring equipment 39* item

Ground Water Lowering

50 Ground water lowering 33* item

Trial Pits

51 Trial pit 5* in depth m³

Breaking Up and Perforation of Redundant Pavements

52 61* of redundant 57*58*59*60* deep m²

Perforation of Redundant Slabs, Basements and the Like

53 Perforation of redundant 57* 62* 63* 64* thick m²

| <i>Group</i> | <i>Variables</i> |
|--------------|---|
| 1* | *Not used |
| 2* | (i) =Class U1 (ii) =Class U2 |
| 3* | (i) =cutting and other excavation (ii) =new watercourses (iii) =enlarged watercourses (iv) =intercepting ditches (v) =clearing abandoned watercourses |

| | | |
|-----|-----------|---|
| | (vi) | =removal of surcharge |
| 4* | (i) | =structural foundations |
| | (ii) | =gabion walling and mattresses |
| | (iii) | =crib walling |
| | (iv) | =caps to mine working, well, swallow hole and the like |
| | (v) | =foundations for corrugated steel buried structures and the like |
| 5* | (i) | =0 to 3 metres |
| | (ii) | =0 to 6 metres |
| | (iii) etc | =0 to 9 metres (and so on in steps of 3 metres) |
| 6* | (i) | =cutting and other excavation |
| | (ii) | =structural foundations |
| | (iii) | =foundations for corrugated steel buried structures and the like |
| | (iv) | =new watercourses |
| | (v) | =enlarged watercourses |
| | (vi) | =intercepting ditches |
| | (vii) | =clearing abandoned watercourses |
| | (viii) | =gabion walling and mattresses |
| | (ix) | =crib walling |
| | (x) | =caps to mine workings, well, swallow hole and the like |
| 7* | (i) etc | =[stated location reference] |
| 8* | (i) etc | =[stated Class or Classes of acceptable material] |
| 9* | (o) | =No entry |
| | (i) | =Class 1C |
| | (ii) | =Class 6B |
| 10* | (i) | =embankments and other areas of fill |
| | (ii) | =strengthened embankments |
| | (iii) | =reinforced earth structures |
| | (iv) | =anchored earth structures |
| | (v) | =landscape areas |
| | (vi) | =environmental bunds |
| | (vii) | =fill to structures |
| | (viii) | =fill above structural concrete foundations |
| | (ix) | =fill on sub-base material, base and capping |
| | (x) | =fill on bridges (under footways, verges and central reserves) |
| | (xi) | =upper bedding to corrugated steel buried structures and the like |
| | (xii) | =lower bedding to corrugated steel buried structures and the like |
| | (xiii) | =surround to corrugated steel buried structures and the like |
| | (xiv) | =fill above corrugated steel buried structures and the like |
| 11* | (i) | =acceptable material excluding Class 5A |
| | (ii) | =acceptable material Class 5A |
| | (iii) | =unacceptable material Class U1 |
| | (iv) | =unacceptable material Class U2 |
| 12* | (o) | =No entry |
| | (i) | =Class 1A |
| | (ii) | =Class 1B |
| | (iii) | =Class 1C |
| | (iv) | =Class 2A |

| | | |
|-----|-----------|--|
| | (v) | =Class 2B |
| | (vi) | =Class 2C |
| | (vii) | =Class 2D |
| | (viii) | =Class 2E |
| | (ix) | =Class 3 |
| | (x) | =Class 4 |
| | (xi) | =Class 6A |
| | (xii) | =Class 6B |
| | (xiii) | =Class 6C |
| | (xiv) | =Class 6D |
| | (xv) | =Class 6E |
| | (xvi) | =Class 6F1 |
| | (xvii) | =Class 6F2 |
| | (xviii) | =Class 6F3 |
| | (xix) | =Class 6G |
| | (xx) | =Class 6H |
| | (xxi) | =Class 6I |
| | (xxii) | =Class 6J |
| | (xxiii) | =Class 6K |
| | (xxiv) | =Class 6L |
| | (xxv) | =Class 6M |
| | (xxvi) | =Class 6N |
| | (xxvii) | =Class 6P |
| | (xxviii) | =Class 6Q |
| | (xxix) | =Class 6R |
| | (xxx) | =Class 7A |
| | (xxxi) | =Class 7B |
| | (xxxii) | =Class 7C |
| | (xxxiii) | =Class 7D |
| | (xxxiv) | =Class 7E |
| | (xxxv) | =Class 7F |
| | (xxxvi) | =Class 7G |
| | (xxxvii) | =Class 7H |
| | (xxxviii) | =Class 7I |
| | (xxxix) | =Class 8 |
| | (xl) | =Class 9A |
| | (xli) | =Class 9B |
| | (xlii) | =Class 9C |
| | (xliii) | =Class 9D |
| | (xliv) | =Class 9E |
| | (xlv) | =Class 9F |
| | (xlvi)etc | =[stated Class] |
| 13* | (o) | =No entry |
| | (i) | =of capping |
| 14* | (i) | =cement |
| | (ii) | =lime |
| 15* | (o) | =No entry |
| | (i) etc | =[stated Type] |
| 16* | (o) | =No entry |
| | (i) etc | =[stated Grade] |
| 17* | (i) | =below cuttings or under embankments |
| | (ii) | =in side slopes |
| | (iii) | =below structural foundations and foundations for corrugated steel buried structures |

| | | |
|-----|---|---|
| 18* | (i) (ii) etc (iii) etc | =acceptable material =acceptable material Class [direct entry] =in situ concrete mix [direct entry] |
| 19* | (i) (ii) (iii) (iv) (v) etc | =sewer or drain =cable =duct =pipeline =[stated service] |
| 20* | (i) etc (ii) etc | =internal diameter [direct entry] =external diameter [direct entry] |
| 21* | (i) (ii) (iii) etc | =one metre or less =exceeding one metre but not exceeding two metres =exceeding two metres but not exceeding three metres (and so on in steps of one metre) |
| 22* | (i) (ii) (iii) etc | =Timber =Steel =[stated material] |
| 23* | (o) (i) (ii) | =No entry =trench sheeting =sheet piling |
| 24* | (i) (ii) (iii) (iv) etc | =25 mm =50 mm =75 mm =100 mm (and so on in steps of 25 mm) |
| 25* | (i) (ii) | =at 10° or less =more than 10° |
| 26* | | *Not used |
| 27* | | *Not used |
| 28* | (i) (ii) | =sub-formation =formation |
| 29* | (i) (ii) (iii) (iv) | =material other than Class 1C, 6B or rock in cuttings =Class 1C material =Class 6B material =rock in cuttings |
| 30* | (i) (ii) (iii) | =new watercourse =enlarged watercourse =intercepting ditches |
| 31* | (i) (ii) | =invert =side slopes |
| 32* | (i) (ii) etc (iii) (iv) (v) (vi) etc | =precast concrete units =in situ concrete grade/mix [direct entry] =uncoursed random rubble =coursed random rubble =bagwork =[stated material] |
| 33* | (i) etc | =[stated location reference] |

| | | |
|-----|--------------------------------------|---|
| 34* | (i) (ii) | =trial =main |
| 35* | (i) etc | =[stated weight] |
| 36* | (i) (ii) (iii) etc | =plastic coated galvanized wire =geomesh =[stated material] |
| 37* | (i) etc | =[stated mesh size] |
| 38* | (o) (i) | =No entry =in environmental bunds |
| 39* | (i) etc | =[stated Type and capacity] |
| 40* | (o) (i) | =No entry =curved on plan |
| 41* | (o) (i) | =No entry =with a battered face |
| 42* | (o) (i) (ii) (iii) etc | =No entry =surface finish Class F1 =surface finish Class F2 =[stated Class of surface finish] |
| 43* | (i) (ii) etc (iii) (iv) etc | =sand =in situ concrete grade/mix [direct entry] =acceptable material except Class 5A =[stated material] |
| 44* | (i) (ii) (iii) (iv) etc | =mine working =well =swallow hole and the like =[stated Type of cavity] |
| 45* | (i) (ii) etc | =precast concrete units =in situ concrete grade/mix [direct entry] |
| 46* | *Not used | |
| 47* | (i) (ii) etc | =not exceeding 5 metres =exceeding 5 metres but not exceeding 10 metres (and so on in steps of 5 metres) |
| 48* | (i) (ii) | =standard =pressure |
| 49* | (i) (ii) | =vertical =raking |
| 50* | (i) (ii) etc | =not exceeding 10 metres =exceeding 10 metres but not exceeding 20 metres (and so on in steps of 10 metres) |
| 51* | (i) etc | =[stated type of instrument] |
| 52* | (i) etc | =[stated material] |
| 53* | (i) | =not exceeding 10 metres |

| | | |
|-----|---|--|
| | (ii) etc | =exceeding 10 metres but not exceeding 50 metres (and so on in steps of 50 metres) |
| 54* | (i) (ii) (iii) | =erection of =servicing of =dismantling of |
| 55* | (i) (ii) | =hut =cabinet |
| 56* | (i) (ii) | =until completion of the works =after completion of the works |
| 57* | (o) (i) | =No entry =reinforced |
| 58* | (i) (ii) (iii) (iv) (v) (vi) etc | =concrete =rigid composite =rigid =flexible =flexible composite =[stated type of slab construction] |
| 59* | (i) (ii) (iii) (iv) etc | =slab =pavement =paved area =[stated Type of slab] |
| 60* | (i) (ii) (iii) etc | =not exceeding 100 mm =exceeding 100 mm deep but not exceeding 200 mm =exceeding 200 mm deep but not exceeding 300 mm (and so on in steps of 100 mm) |
| 61* | (i) (ii) | =Breaking up =Perforation |
| 62* | (i) (ii) (iii) etc | =concrete =brickwork =[stated material] |
| 63* | (i) (ii) (iii) etc | =slab =basement =[stated structure] |
| 64* | (i) (ii) (iii) etc | =not exceeding 100 mm =exceeding 100 mm thick but not exceeding 200 mm =exceeding 200 mm thick but not exceeding 300 mm (and so on in steps of 100 mm) |
| 65* | (i) etc | =[stated minimum diameter] |
| 66* | (i) etc | =[stated Type of installation] |
| 67* | (i) (ii) | =not exceeding 5 metres in length =exceeding 5 metres but not exceeding 10 metres in length (and so on in steps of 5 metres) |

Series 700: Pavements

| <i>Item</i> | <i>Root Narrative</i> | <i>Unit</i> |
|---|--|--------------------|
| Sub-base | | |
| 1 | 1* sub-base 8* | m ² |
| Pavement | | |
| 2 | 2*6*5* base course 7* thick 8* | m ² |
| 3 | 2*6* lower base course 7* thick 8* | m ² |
| 4 | 2*6* upper base course 7* thick 8* | m ² |
| 5 | 3*6* binder course 7* thick 8*22* | m ² |
| 6 | 4*6* surface course 7* thick 8*22* | m ² |
| 7 | 4*6* surface course 7* thick with 12* coated chippings 8*22* | m ² |
| 8 | Pavement comprising 5* slab 7* thick 8* | m ² |
| Regulating Course | | |
| 9 | 10*6*11* regulating course | t |
| 10 | 10*6*11* regulating course | m ³ |
| 11 | 9*11* regulating course | m ³ (t) |
| Surface Treatment | | |
| 12 | Slurry sealing 13*7*17* | m ² |
| 13 | Surface dressing 13*7*23*17* | m ² |
| 14 | Bituminous spray 13*17* | m ² |
| 15 | Resin based surface treatment 13*7*23*17* | m ² |
| Tack Coat | | |
| 16 | Tack Coat 13*17* | m ² |
| Cold Milling (Planing) | | |
| 17 | 14* pavement 15* | m ² |
| In Situ Recycling - The Remix and Repave Processes | | |
| 18 | 21* in situ recycle process 15* | m ² |

| | | |
|---|---|----------------|
| Reinstatement of Paved Areas | | |
| 19 | Reinstate paved area with 16*15* | m ² |
| Thin Bonded Repairs and Joint Repairs to Existing Concrete Carriageway | | |
| 20 | Thin bonded repairs 18*19*15* | m ² |
| 21 | Joint repairs 18*20*15* | m |
| 22 | Saw-cutting grooves 24* | m |
| 23 | Sealing grooves 25* | m |
| Full Depth Repairs and Bay Replacement Repairs to Existing Concrete Carriageway | | |
| 24 | Full depth repairs 26*27* thick | m ² |
| 25 | Bay replacement repairs 26*27* thick | m ² |
| 26 | Reinstatement of sub-base | m ³ |
| Saw Cutting, Cracking and Seating Existing Jointed Reinforced Concrete Pavements | | |
| 27 | Removal of existing bituminous overlay | m ² |
| 28 | Main trial | item |
| 29 | Re-assessment trial | no |
| 30 | Saw-cutting existing pavement 28* | m ² |
| 31 | Cracking existing pavement 29* | m ² |
| 32 | Seating existing pavement 29* | m ² |
| Cracking and Seating of Existing Jointed Unreinforced Concrete Pavements and CBM Bases | | |
| 33 | Removal of existing bituminous overlay | m ² |
| 34 | Main trial | item |
| 35 | Re-assessment trial | no |
| 36 | Cracking 30*29*31* | m ² |
| 37 | Seating 30*29* | m ² |
| Overbanding and Inlaid Crack Sealing Repair Systems | | |
| 38 | Simple overbanding repair system with 32* | m |
| 39 | Fill and overbanding repair system 36*32* | m |
| 40 | Inlaid sealing repair system 37*32* | m |

Maintenance of Arrester Beds

41 Maintenance of arrester bed 33* item

Repairs and Patching

42 Repairs to potholes with 34* kg

43 Repairs to depressions with 34* kg

44 Patching 27* thick with 34*35* m²

| <i>Group</i> | <i>Variables</i> |
|--------------|---|
| #1* | (i) =Granular Type 1 (ii) =Granular Type 2 (iii) =Granular Type 4 (iv) =Class 1D General Fill (v) =Cement Bound Material Category 2 (vi) =Cement Bound Material Category 4 (vii) =Wet lean concrete 1 (viii) =Wet lean concrete 2 (ix) =Wet lean concrete 3 (x) =Wet lean concrete 4 (xi) etc =[stated type or material] |
| 2* | (o) =No entry (i) =Cement bound material Category 2 (ii) =Cement bound material Category 4 (iii) =Wet lean concrete 1 (iv) =Wet lean concrete 2 (v) =Wet lean concrete 3 (vi) =Wet lean concrete 4 (vii) =Asphalt concrete (viii) =Granular Type1 (ix) =Granular Type2 (x) =Granular Type4 (xi) etc =[stated type or material] |
| 3* | (i) =Asphalt concrete (ii) etc =[stated type or material] |
| 4* | (i) etc =Asphalt concrete [stated design mix] (ii) etc =Gussasphalt [stated design mix] (iii) =Porous asphalt (iv) =Thin layer (v) etc =[stated type or material] |
| 5* | (o) =No entry (i) =special permitted alternative design for concrete (ii) =jointed reinforced concrete (iii) =unreinforced concrete (iv) =continuously reinforced concrete |
| 6* | (o) =No entry (i) =with 12.5 mm aggregate (ii) =with 19 mm aggregate (iii) =with 25 mm aggregate |

| | | |
|-----|-----------|---|
| | (iv) | =with 37.5 mm aggregate |
| | (v) | =with 50 mm aggregate |
| | (vi) etc | =with [stated size of aggregate] |
| 7* | (o) | =No entry |
| | (i) etc | =[stated thickness] |
| 8* | (i) | =in carriageway, hardshoulder and hardstrip |
| | (ii) | =in emergency crossing |
| | (iii) | =in lay-by and bus bay |
| 9* | (i) | =Cement bound material Category 2 |
| | (ii) | =Cement bound material Category 4 |
| | (iii) | =Wet lean concrete 1 |
| | (iv) | =Wet lean concrete 2 |
| | (v) | =Wet lean concrete 3 |
| | (vi) | =Wet lean concrete 4 |
| | (vii) etc | =[stated type or material] |
| 10* | (i) etc | =Asphalt concrete [stated design mix] |
| | (ii) etc | =[stated type or material] |
| 11* | (o) | =No entry |
| | (i) | =lower base course |
| | (ii) | =upper base course |
| | (iii) | =base course |
| | (iv) | =binder course |
| | (v) | =surface course |
| 12* | (i) | =1/3 mm |
| | (ii) | =2/5 mm |
| | (iii) | =2.36/4.75 mm |
| | (iv) | =4.75/9.5 mm |
| | (v) etc | =[stated size] |
| 13* | (o) | =No entry |
| | (i) etc | =[stated type, material or specification reference] |
| 14* | (i) | =Milling |
| 15* | (i) etc | =[stated depth or thickness] |
| 16* | (i) etc | =[Unique type of pavement] |
| 17* | (o) | =No entry |
| | (i) etc | =[stated rate of spread] |
| 18* | (i) etc | =[unique type] |
| 19* | (i) | =individual areas not exceeding 1 square metre on plan |
| | (ii) etc | =individual areas exceeding 1 square metre but not exceeding 2 square metres on plan (and so on in steps of 1 square metre) |
| 20* | (i) | =individual lengths not exceeding 1 linear metre |
| | (ii) etc | =individual lengths exceeding 1 linear metre but not exceeding 2 linear metres (and so on in steps of 1 linear metre) |
| 21* | (i) | =Repave |
| | (ii) | =Remix |
| | (iii) | =Remix/repave |

| | | |
|-----|----------------------------------|---|
| | (iv) | =Reshape |
| 22* | (o) (i) | =No entry =in overlay |
| 23* | (o) (i) | =No entry =stated colour |
| 24* | (i) (ii) etc | =depth of cut not exceeding 50mm =depth of cut exceeding 50mm but not exceeding 75mm (and so on in steps of 25mm) |
| 25* | (i) etc | =[stated thickness or depth] |
| 26* | (i) (ii) | =in unreinforced slabs =in reinforced slabs |
| 27* | (i) etc | =[stated thickness] |
| 28* | (i) (ii) (iii) etc | =saw-cuts exceeding 50mm but not exceeding 70mm in depth =saw-cuts exceeding 70mm but not exceeding 90mm in depth =saw-cuts exceeding 90mm but not exceeding 110mm in depth (and so on in steps of 20mm) |
| 29* | (i) (ii) (iii) etc | =thickness not exceeding 50mm =thickness exceeding 50mm but not exceeding 100mm =thickness exceeding 100mm but not exceeding 150mm (and so on in steps of 50mm) |
| 30* | (i) (ii) | =jointed unreinforced concrete pavement =CBM base |
| 31* | (i) (ii) (iii) (iv) etc | =transverse cracks exceeding 1.00 metre but not exceeding 2.00 metres centres =transverse cracks exceeding 2.00 metres but not exceeding 3.00 metres centres =transverse cracks exceeding 3.00 metres but not exceeding 4.00 metres centres =transverse cracks exceeding 4.00 metres but not exceeding 6.00 metres centres (and so on in steps of 2.00 metres) |
| 32* | (i) etc | =[stated material] |
| 33* | (i) etc | =[stated location] |
| 34* | (i) etc | =[stated repair material or system] |
| 35* | (i) (ii) (iii) etc | =in areas not exceeding 5 square metres =in areas exceeding 5 square metres but not exceeding 10 square metres =in areas exceeding 10 square metres but not exceeding 15 square metres (and so on in steps of 5 square metres) |
| 36* | (i) (ii) (iii) | = crack exceeding 5 mm but not exceeding 10 mm wide = crack exceeding 10 mm but not exceeding 15 mm wide = crack exceeding 15 mm but not exceeding 20 mm wide |
| 37* | (i) etc | = [stated width of crack] |

Series 800 is not taken up

Series 900 is not taken up

Series 1000 is not taken up

Series 1100: Kerbs, Footways and Paved Areas

| <i>Item</i> | <i>Root Narrative</i> | <i>Unit</i> |
|-------------|--|--------------------|
| | Kerbs, Channels, Edgings, Combined Drainage and Kerb Blocks and Linear Drainage Channel Systems | |
| 1 | Permitted alternative 3*1*4* | m |
| 2 | 2*3*1*4* | m |
| | Additional Concrete for Kerbs, Channels, Edgings, Combined Drainage and Kerb Blocks and Linear Drainage Channel Systems | |
| 3 | Additional 18* for 1*2*3* | m ³ |
| | Remove from Store and Relay Kerbs, Channels, Edgings, Combined Drainage and Kerb Blocks and Linear Drainage Channel Systems | |
| 4 | Remove from store and relay 2*3*1*4* | m |
| | Footways and Paved Areas | |
| 5 | 19* specified design group 1*10* thick 15*11* | m ² |
| 6 | 19* comprising 5* sub-base 10* thick 6*8*10* thick 7*8*10* thick with surface dressing 9*15*11* | m ² |
| 7 | 10*18*19* on 5* sub-base 10* thick 15*11* | m ² |
| 8 | 13*12* in 19* on 5* sub-base 10* thick and 14* bedding 15*11* | m ² |
| 9 | 16* regulating course | m ³ (t) |
| 10 | 17*8* regulating course | m ³ (t) |
| | Remove from Store and Relay Paving Flags, Slabs and Blocks | |
| 11 | Remove from store and relay 13*12* in 19* on 5* sub-base 10* thick and 14* bedding 15*11* | m ² |
| | Steps | |
| 12 | Flight of steps 20* | no |

| <i>Group</i> | <i>Variables</i> |
|--------------|------------------|
| 1* | (o) =No entry |

| | | |
|-----|-----------|--|
| | (i) etc | =[stated Group, Type or Design] |
| 2* | (o) | =No entry |
| | (i) | =precast concrete |
| | (ii) | =in situ unreinforced concrete grade [direct entry] |
| | (iii) | =in situ reinforced concrete grade [direct entry] |
| | (iv) | =in situ asphalt |
| | (v) | =granite |
| | (vi) | =granite sett |
| | (vii) etc | =[stated material] |
| 3* | (i) | =kerb(s) |
| | (ii) | =channel(s) |
| | (iii) | =edging(s) |
| | (iv) | =combined drainage and kerb blocks |
| | (v) | =linear drainage channel systems |
| 4* | (i) | =laid straight or curved exceeding 12 metres radius |
| | (ii) | =laid to curves not exceeding 12 metres radius |
| 5* | (o) | =No entry |
| | (i) | =granular material Type 1 |
| | (ii) | =granular material Type 2 |
| | (iii) | =granular material Type 4 |
| | (iv) | =cement bound material Category 2 |
| | (v) | =cement bound material Category 4 |
| | (vi) | =wet lean concrete 1 |
| | (vii) | =wet lean concrete 2 |
| | (viii) | =wet lean concrete 3 |
| | (ix) | =wet lean concrete 4 |
| | (x) etc | =[stated type or material] |
| 6* | (i) | =Asphalt concrete |
| | (ii) | =Gussasphalt |
| | (iii) etc | =[stated material] |
| 7* | (i) etc | =Asphalt concrete [stated design mix] surface course |
| | (ii) etc | =Gussasphalt [stated design mix] surface course |
| | (iii) etc | =[stated material] |
| 8* | (o) | =No entry |
| | (i) | =with 12.5 mm aggregate |
| | (ii) | =with 19 mm aggregate |
| | (iii) | =with 25 mm aggregate |
| | (iv) etc | =with [stated size of aggregate] |
| 9* | (o) | =No entry |
| | (i) etc | =[stated type] |
| 10* | (i) etc | =[stated thickness in mm] |
| 11* | (o) | =No entry |
| | (i) | =as cycle track |
| | (ii) | =as police observation platform |
| | (iii) | =as hardened central reserve |
| | (iv) | =beneath structures |
| | (v) etc | =[other] |
| 12* | (o) | =No entry |

| | | |
|-----|-----------|--|
| | (i) | =precast concrete slabs |
| | (ii) | =stone paving flags |
| | (iii) | =concrete block paving |
| | (iv) | =brick paving |
| | (v) | =granite sett paving |
| | (vi) etc | =[stated type] |
| 13* | (o) | =No entry |
| | (i) etc | =[stated size and thickness reference] |
| 14* | (o) | =No entry |
| | (i) | =mortar |
| | (ii) | =fine aggregate to BS 882 Grading C |
| | (iii) | =fine aggregate to BS 882 Grading M |
| | (iv) etc | =[stated material] |
| 15* | (o) | =No entry |
| | (i) | =surfaces sloping at 10o or less to the horizontal |
| | (ii) | =surfaces sloping at more than 10o to the horizontal |
| 16* | (i) | =Cement bound material Category 2 |
| | (ii) | =Cement bound material Category 4 |
| | (iii) | =Wet lean concrete 1 |
| | (iv) | =Wet lean concrete 2 |
| | (v) | =Wet lean concrete 3 |
| | (vi) | =Wet lean concrete 4 |
| | (vii) etc | =[stated type or material] |
| 17* | (i) etc | =Asphalt concrete [stated design mix] |
| | (ii) etc | =[stated type or material] |
| 18* | (i) etc | =in situ concrete mix [direct entry] |
| 19* | (i) | =Footway |
| | (ii) | =Paved area |
| 20* | (i) etc | =[stated location reference] |

Series 1200: Traffic Signs and Road Markings

| <i>Item</i> | <i>Root Narrative</i> | <i>Unit</i> |
|---|---|----------------|
| Traffic Signs | | |
| 1 | 1*2* traffic sign to 4*3*5* in area on 6*7* | no |
| Remove from Store and Re-erect Traffic Signs | | |
| 2 | Remove from store and re-erect 2* traffic sign to 4*3* 5* in area on 6*7* | no |
| Road Markings | | |
| 3 | 8* solid area in 17*9*10* | m ² |
| 4 | 8* continuous line in 17*9*10*11* wide | m |
| 5 | 8* intermittent line in 17*9*10*11* wide with 11* line and 11* gap | m |
| 6 | 8* ancillary line 17*9*10*11* wide 12* | m |
| 7 | 8* raised rib lines in 17*9*10*11* with ribs at 11* centres | m |
| 8 | 8* triangle in 17*9*10* to 4* | no |
| 9 | 8* circle with enclosing arrows in 17*9*10*11* diameter to 4* | no |
| 10 | 8* arrow in 17*9*10*11* long 13* to 4* | no |
| 11 | 8* kerb marking in 17*9*10*11* long to 4* | no |
| 12 | 8* letters in 17*9*10*11* high | no |
| 13 | 8* numerals in 17*9*10*11* high | no |
| 14 | 8* symbols in 17*9*10*14* to 4* | no |
| Road Studs | | |
| 15 | 14*15*16* road stud with 17*18* reflectors | no |
| Remove from Store and Re-install Road Studs | | |
| 16 | Remove from store and re-install 14*15*16* road stud with 17*18* reflectors | no |
| Traffic Signal Installations | | |
| 17 | 1* traffic signal installation at 21* | item |
| Controlled and Uncontrolled Crossings | | |
| 18 | 1* controlled crossing at 21* | item |

19 1* uncontrolled crossing at 21* item

Marker Posts

20 19* marker post 20* no

Permanent Bollards

21 Permanent bollard 22*23*24* no

Node Markers

22 25* node marker 26* no

| <i>Group</i> | <i>Variables</i> |
|--------------|---|
| 1* | (o) =No entry (i) =Permanent (ii) =Prescribed temporary |
| 2* | (o) =No entry (i) =retroreflective (ii) =non-retroreflective (iii) =enhanced retroreflective |
| 3* | (o) =No entry (i) =as Lit Sign Unit (ii) =as non-Lit Sign Unit |
| 4* | (o) =No entry (i) etc =[stated Traffic Signs Regulations and General Directions Diagram Number] (ii) etc =[stated authorised sign number] |
| 5* | (i) =sign face not exceeding 0.25 square metre (ii) =sign face exceeding 0.25 square metre but not exceeding 0.50 square metre (iii) =sign face exceeding 0.5 square metre but not exceeding 0.75 square metre (iv) =sign face exceeding 0.75 square metre but not exceeding 1 square metre (v) =sign face exceeding 1 square metre but not exceeding 2 square metres (vi) =sign face exceeding 2 square metres but not exceeding 3 square metres (vii) etc =sign face exceeding 3 square metres but not exceeding 4 square metres (and so on in steps of 1 square metre) |
| 6* | (o) =No entry (i) =existing (ii) =one (iii) =two (iv) =three |

| | | |
|-----|-----------|-------------------------------------|
| | (v) | =four |
| 7* | (i) | =timber supporting post(s) |
| | (ii) | =reinforced concrete post(s) |
| | (iii) | =prestressed concrete post(s) |
| | (iv) | =rectangular steel post(s) |
| | (v) | =tubular steel post(s) |
| | (vi) | =rectangular aluminium post(s) |
| | (vii) | =tubular aluminium post(s) |
| | (viii) | =bridge superstructure |
| | (ix) | =building |
| | (x) | =gantry |
| | (xi) | =lighting column |
| 8* | (o) | =No entry |
| | (i) | =Removal of |
| 9* | (i) | =thermoplastic screed |
| | (ii) | =thermoplastic spray |
| | (iii) | =thermoplastic extrusion |
| | (iv) | =road marking paint |
| | (v) | =preformed material |
| | (vi) etc | =[stated material] |
| 10* | (o) | =No entry |
| | (i) | =with applied solid glass beads |
| 11* | (i) etc | =[stated width, length or diameter] |
| 12* | (i) | =in zigzags |
| | (ii) | =in hatched areas |
| | (iii) | =in chevrons |
| | (iv) | =in boxed areas |
| 13* | (i) | =straight |
| | (ii) | =curved |
| | (iii) | =turning |
| | (iv) | =double headed |
| | (v) etc | =[stated Type] |
| 14* | (o) | =No entry |
| | (i) etc | =[stated size] |
| 15* | (o) | =No entry |
| | (i) | =square |
| | (ii) | =circular |
| | (iii) | =rectangular |
| 16* | (o) | =No entry |
| | (i) | =one way |
| | (ii) | =bi-directional |
| | (iii) etc | =[stated Type] |
| 17* | (o) | =No entry |
| | (i) | =yellow |
| | (ii) | =white |
| | (iii) | =red |
| | (iv) | =green |
| | (v) | =amber |
| | (vi) | =green/yellow |

| | | |
|-----|--|---|
| 18* | (o) (i) (ii) | =No entry =corner cube =bi-convex lens |
| 19* | (i) (ii) (iii) etc | =timber =glass reinforced plastic =[stated material] |
| 20* | (i) (ii) (iii) (iv) (v) (vi) (vii) (viii) (ix) | =Type 1 =Type 2 =Type 3 =Type 4 =Type 5 =Type 6 =Type 7 =Type 8 =Type 9 |
| 21* | (i) etc | =[stated location reference] |
| 22* | (i) (ii) | =internally illuminated =non-illuminated |
| 23* | (i) etc | =[stated Type] |
| 24* | (o) (i) etc | =No entry =[stated size] |
| 25* | (i) (ii) etc | =cored thermoplastic =[stated Type] |
| 26* | (i) etc | =[stated diameter] |

Series 1300: Road Lighting Columns, Brackets and CCTV Masts

| <i>Item</i> | <i>Root Narrative</i> | <i>Unit</i> |
|--|---|-------------|
| Road Lighting Columns, Brackets, Wall Mountings and CCTV Masts | | |
| 1 | 1* road lighting column of 3*2* and 4*5* with 6*7*8*9* | no |
| 2 | 10*11* wall mounting 2*4*5* with 6*7*8*9* | no |
| 3 | CCTV mast of 3* | no |
| Remove from Store and Re-erect Road Lighting Columns, Brackets and Wall Mountings | | |
| 4 | Re-erection of 1* road lighting column of 3*2* and 4*5* with 6*7*8*9* | no |
| 5 | Re-erection of 10*11* wall mounting 2*4*5* with 6*7*8*9* | no |

| <i>Group</i> | <i>Variables</i> |
|--------------|---|
| 1* | (o) =No entry (i) =steel (ii) =prestressed concrete (iii) =reinforced concrete (iv) =aluminium (v) =cast iron (vi) =glass fibre reinforced plastic (vii) etc =[stated material] |
| 2* | (o) =No entry (i) =with planted base (ii) =with flange plate base (iii) etc =[stated Type] |
| 3* | (i) =5 m nominal height (ii) =6 m nominal height (iii) =8 m nominal height (iv) =10 m nominal height (v) =12 m nominal height (vi) =18 m nominal height (vii) =20 m nominal height (viii) etc =[stated height] |
| 4* | (o) =No entry (i) =with single bracket arm (ii) =with double bracket arm, each arm (iii) etc =[stated Type] |
| 5* | (o) =No entry (i) =having a projection of 0.5 m (ii) =having a projection of 1.0 m (iii) =having a projection of 1.5 m |

| | | |
|-----|-----------|--|
| | (iv) | =having a projection of 2.0 m |
| | (v) | =having a projection of 2.5 m |
| | (vi) | =having a projection of 3.0 m |
| | (vii) etc | =[stated projection] |
| 6* | (i) | =a luminaire unit |
| | (ii) | =a non cut off luminaire |
| | (iii) | =a semi cut off luminaire |
| | (iv) | =a cut off luminaire |
| | (v) | =a subway lighting unit |
| | (vi) | =a floodlight |
| | (vii) etc | =[stated Type] |
| 7* | (o) | =No entry |
| | (i) | =incorporating a 35 w SOX lamp |
| | (ii) | =incorporating a 55 w SOX lamp |
| | (iii) | =incorporating a 90 w SOX lamp |
| | (iv) | =incorporating a 135 w SOX lamp |
| | (v) | =incorporating a 180 w SOX lamp |
| | (vi) etc | =[stated Type] |
| 8* | (o) | =No entry |
| | (i) | =incorporating a low pressure sodium lamp to provide not less than 2000 lumens in the lower hemisphere |
| | (ii) | =incorporating a low pressure sodium lamp to provide not less than 7200 lumens in the lower hemisphere |
| | (iii) | =incorporating a low pressure sodium lamp to provide not less than 12,000 lumens in the lower hemisphere |
| | (iv) | =incorporating a low pressure sodium lamp to provide not less than 20,000 lumens in the lower hemisphere |
| | (v) etc | =[stated lighting intensity] |
| 9* | (o) | =No entry |
| | (i) | =and photo-electric control set to switch on at 70 lux |
| | (ii) | =and photo-electric control set to switch on at 100 lux |
| | (iii) | =and photo-electric control set to switch on at 120 lux |
| | (iv) | =and one part photo-electric control unit for luminaire |
| | (v) | =and one part dummy photo-electric control unit for luminaire |
| | (vi) | =and two part photo-electric control unit for luminaire |
| | (vii) etc | =[stated photo-electric control] |
| 10* | (o) | =No entry |
| | (i) etc | =[stated Type] |
| 11* | (o) | =No entry |
| | (i) | =surface mounted |
| | (ii) | =recessed |

Series 1400 is not taken up

Series 1500 is not taken up

Series 1600 is not taken up

Series 1700: Structural Concrete

| <i>Item</i> | <i>Root Narrative</i> | <i>Unit</i> |
|---|---|----------------|
| In Situ Concrete | | |
| 1 | In situ concrete mix reference 1*2* | m ³ |
| 2 | In situ concrete mix ST 3*2* | m ³ |
| Precast Concrete | | |
| 3 | Precast concrete 4*5*8*9*10* size 12* | no |
| 4 | Precast concrete 4*6*8*9* cross section 11* | m |
| 5 | Precast concrete 4*7*8*9* size 12* | m ² |
| Surface Finish of Concrete-Formwork | | |
| 6 | 25* Formwork 13*8*14* more than 300 mm wide | m ² |
| 7 | 25* Formwork 13*8* 300 mm wide or less at any inclination | m ² |
| 8 | 25* Curved formwork 13*8* of both girth and width more than 300 mm at any inclination | m ² |
| 9 | 25* Curved formwork 13*8* of girth or width 300 mm or less at any inclination | m ² |
| 10 | 25* Domed formwork 13*8* | m ² |
| 11 | Void former cross section 11*8* | m |
| Surface Finish of Concrete-Patterned Profile Formwork | | |
| 12 | Patterned profile formwork 8*14* | m ² |
| 13 | Curved patterned profile formwork 8* at any inclination | m ² |
| Steel Reinforcement for Structures | | |
| 14 | 15* 16* bar reinforcement nominal size 17*18* in length 19* | t |
| 15 | Fabric reinforcement to BS 20* | m ² |
| 16 | 15* 16* helical reinforcement 17* | t |
| 17 | 15* dowel 21* | no |
| Reinforcement for Reinforced and Anchored Earth Structures | | |
| 18 | 15* vertical rods nominal size 17*10* metres in length | m |
| 19 | 15* strip reinforcing elements cross section 11*22*10* metres in length | m |
| 20 | 15* bar reinforcing elements nominal size 11*22*10* metres in length | m |

21 15*23* reinforcing elements 8* m²

In Situ Post-tensioned Prestressing for Structures

22 8* tendon 24* construction 10* metres long no
 23 Stressing and grouting internal tendon 8* 24* construction 10* metres long no
 24 Stressing external tendon 8*24* construction 10* metres long no
 25 Final stressing and grouting 8* tendon 24* construction 10* metres long of member supplied partially prestressed no
 26 Protective covering to 8* external tendon 24* construction 10* metres long no

| <i>Group</i> | <i>Variables</i> | |
|--------------|-------------------------------------|---|
| 1* | (i) etc | =[stated mix reference] |
| 2* | (o) (i) | =No entry =in blinding 75 mm or less in thickness |
| 3* | (i) (ii) (iii) (iv) (v) | =1 =2 =3 =4 =5 |
| 4* | (o) (i) (ii) | =No entry =pretensioned prestressed =post-tensioned prestressed |
| 5* | (i) (ii) (iii) (iv) (v) | =member =slab =segmental unit =hinge =specially moulded block |
| 6* | (i) (ii) (iii) (iv) | =coping =capping unit =plinth =culvert |
| 7* | (i) | =facing units |
| 8* | (o) (i) etc | =No entry =[stated Type or reference] |
| 9* | (o) (i) | =No entry =curved |
| 10* | (o) (i) etc | =No entry =[unique length] |
| 11* | (o) (i) etc | =No entry =[unique cross section] |

| | | |
|-----|---|---|
| 12* | (o) (i) etc | =No entry =[unique dimensions] |
| 13* | (i) (ii) (iii) (iv) (v) (vi) etc | =Class F1 =Class F2 =Class F3 =Class F4 =Class F5 =[stated Class] |
| 14* | (i) (ii) (iii) | =horizontal =inclined =vertical |
| 15* | (i) etc (ii) (iii) (iv) etc | =[stated Type or grade of steel] =Aluminium alloy =Copper =[stated material] |
| 16* | (o) (i) (ii) | =No entry =deformed Type 1 =deformed Type 2 |
| 17* | (i) (ii) | =16 mm and under =20 mm and over |
| 18* | (i) (ii) etc | =not exceeding 12 metres =exceeding 12 metres but not exceeding 13.5 metres (and so on in steps of 1.5 metres) |
| 19* | (o) (i) | =No entry =threaded through holes in members |
| 20* | (i) etc | =[stated BS] |
| 21* | (i) etc | =[stated diameter and length] |
| 22* | (o) (i) etc | =No entry =[unique load carrying capacity] |
| 23* | (i) (ii) (iii) | =sheet =grid =mesh |
| 24* | (i) (ii) | =for in situ concrete =for segmental |
| 25* | (o) (i) | =No entry =Permanent |

Series 1800 is not taken up

Series 1900 is not taken up

Series 2000: Waterproofing for Structures

| <i>Item</i> | <i>Root Narrative</i> | <i>Unit</i> |
|--|--|----------------|
| Waterproofing | | |
| 1 | Waterproofing with 1*2*3* | m ² |
| Surface Impregnation of Concrete | | |
| 2 | Surface impregnation 4*5* | m ² |
| Removal of Existing Waterproofing | | |
| 3 | Removal of existing waterproofing 2*3* | m ² |

| <i>Group</i> | <i>Variables</i> |
|--------------|---|
| 1* | (i) =mastic asphalt or proprietary waterproofing system (ii) =primer (iii) =protective layer (iv) =[stated types or material] |
| 2* | (o) =No entry (i) =more than 300 mm wide horizontal or at any inclination up to and including 30° to the horizontal (ii) =more than 300 mm wide at any inclination more than 30° up to and including 90° to the horizontal (iii) =300 mm wide or less at any inclination |
| 3* | (o) =No entry (i) =to domed surfaces |
| 4* | (i) =to plain surfaces (ii) =to patterned surfaces |
| 5* | (o) =No entry (i) etc =[stated Type of system] |

Series 2100 is not taken up

Series 2200 is not taken up

Series 2300 is not taken up

Series 2400: Brickwork, Blockwork and Stonework

| <i>Item</i> | <i>Root Narrative</i> | <i>Unit</i> |
|---|--|----------------|
| Brickwork | | |
| 1 | Brickwork in 1*2* bricks in 5*3* thick 4*6*7*8* | m ² |
| 2 | Extra over 1* brickwork 4* for facing with 2* bricks in 5* | m ² |
| 3 | Brick coping in 18*1*2* bricks in 5*16*17* 6*19* | m |
| 4 | 18*1*2* bricks in 5*16*17* string courses 6*19* | m |
| Blockwork and Stonework | | |
| 5 | 9* blockwork 6*7*10* in 5*8* | m ³ |
| 6 | 15* stonework in 5*10*6*7*8* | m ³ |
| 7 | 14* coping 11* in 5*6* | m |
| 8 | 14* shaped and dressed string course 11* in 5*6* | m |
| 9 | 20*12*11*13* in 5* | no |
| Remove from Store and Relay Brickwork, Blockwork and Stonework | | |
| 10 | Remove from store and relay 9* blockwork 6*7*10* in 5*8* | m ³ |
| 11 | Remove from store and relay 15* stonework in 5*10*6*7*8* | m ³ |
| 12 | Remove from store and relay brickwork in 1*2* bricks in 5*3* thick 4*6*7*8* | m ² |
| 13 | Extra over relayed 1* brickwork 4* for facing with 22*2* bricks in 5* | m ² |
| 14 | Remove from store and relay 18*1*2*21* coping 11* in 5*16*17*6*19* | m |
| 15 | Remove from store and relay 18*1*2* bricks in 5*16*17* string courses 6*19* | m |
| 16 | Remove from store and relay 14* shaped and dressed string course 11* in 5*6* | m |
| 17 | Remove from store and relay 20*12*11*13* in 5* | no |

| <i>Group</i> | <i>Variables</i> |
|--------------|---|
| 1* | (o) =No entry (i) =common (ii) =engineering (iii) =engineering Class A (iv) =engineering Class B (v) etc =[stated brick] |
| 2* | (o) =No entry (i) etc =[stated facing brick] |
| 3* | (i) =half brick (ii) =one brick |

| | | |
|-----|----------|---|
| | (iii) | =one and a half brick |
| | (iv) | =two brick |
| | (v) | =two and a half brick |
| | (vi) | =three brick |
| 4* | (o) | =No entry |
| | (i) | =in stretcher bond |
| | (ii) | =in Flemish bond |
| | (iii) | =in English bond |
| | (iv) etc | =[stated bond] |
| 5* | (o) | =No entry |
| | (i) | =in cement mortar designation (i) |
| | (ii) | =in cement mortar designation (ii) |
| | (iii) | =in cement mortar designation (iii) |
| | (iv) | =lime mortar |
| | (v) etc | =[stated Type] |
| 6* | (o) | =No entry |
| | (i) | =curved on plan |
| 7* | (o) | =No entry |
| | (i) | =with a battered face |
| 8* | (i) | =in walls |
| | (ii) | =in facework to concrete |
| | (iii) | =in arches |
| | (iv) | =in alteration work |
| 9* | (o) | =No entry |
| | (i) etc | =[stated material] |
| 10* | (o) | =No entry |
| | (i) etc | =[stated coursing] |
| 11* | (o) | =No entry |
| | (i) etc | =[unique dimensions] |
| 12* | (i) | =corbel |
| | (ii) | =finial |
| | (iii) | =keystone |
| | (iv) etc | =[stated individual block, feature, or stone] |
| 13* | (i) etc | =[stated mark reference] |
| 14* | (i) | =blockwork |
| | (ii) | =stonework |
| 15* | (o) | =No entry |
| | (i) | =reconstituted stone |
| | (ii) | =natural stone rubble |
| | (iii) | =natural stone ashlar |
| | (iv) | =random rubble uncoursed |
| | (v) | =random rubble coursed |
| | (vi) | =squared random rubble uncoursed |
| | (vii) | =squared random rubble coursed |
| | (viii) | =dry rubble |
| | (ix) etc | =[stated Type] |

| | | |
|-----|----------------------|---|
| 16* | (o) (i) | =No entry =in headers |
| 17* | (o) (i) | =No entry =on edge |
| 18* | (o) (i) | =No entry =bullnose |
| 19* | (o) (i) | =No entry =with two courses of tile creasing |
| 20* | (i) (ii) | =Natural stone =Reconstituted stone |
| 21* | (i) (ii) (iii) | =blockwork =stonework =brickwork |
| 22* | (i) (ii) | =new =re-used |

Series 2500 is not taken up

Series 2600 is not taken up

**Series 2700: Accommodation Works, Works for Statutory Undertakers,
 Provisional Sums and Prime Cost Items**

| <i>Item</i> | <i>Root Narrative</i> | <i>Unit</i> |
|-------------|--|-------------------------------|
| 1 | Allow the 1* Lm.... for 2* to be 3* by 4* | sum |
| 2 | Add for labours | Lump sum |
| 3 | Add for all other charges and profit | % |
| 4 | Installation of goods and materials into the Works | Measurement as appropriate |

| <i>Group</i> | <i>Variables</i> |
|--------------|---|
| 1* | (i) =Provisional Sum of (ii) =Prime Cost (PC) Item of |
| 2* | (i) etc =[stated goods or materials] (ii) etc =[stated service] |
| 3* | (i) =executed (ii) =supplied |
| 4* | (i) =the Main Contractor (ii) =a firm to be nominated by the Overseeing Organisation |

Series 3000 is not taken up