Scottish Trunk Road Network Management Contract

Schedule 4 – Measurement, Rates & Prices

North East Unit

This is Schedule 4 Measurement Rates & Prices referred to in the foregoing Agreement between Scottish Ministers and Amey OW Limited dated 28 April 2022 relative to the Scottish Trunk Road Management Contract for the North East Unit.



Method of Measurement: General	6
Method of Measurement for Highway Works	6
Notes for Guidance on Method of Measurement	6
Library of Standard Item Descriptions	6
Chapter I	7
Definitions	8
Chapter II	9
General Principles	10
Chapter III	11
Preparation of the Schedule of Rates and Prices	12
Sub-division of Schedule of Rates and Prices	12
Units of Measurement	12
Preambles to the Schedule of Rates and Prices	13
Schedule of Pages and Relevant Publication Dates	23
Chapter IV	27
Units and Method of Measurement	27
Series 100: Preliminaries	28
Recovery Vehicles	28
Mobilisation	29
Series 200: Site Clearance	31
Litter Clearance	31
Sweeping of Carriageway	32
Series 300: Fencing	33
Fencing, Gates and Stiles	33
Series 400: Road Restraint Systems (Vehicle & Pedestrian)	34
Safety Barriers and Transitions	34
Terminals	36
Temporary Safety Barriers Functioning as a Permanent Parapet	37
Series 500: Drainage and Service Ducts	39
Drains and Service Ducts (Excluding Filter Drains, Narrow Filter Drains and Fin Drains)	39
Filter Drains	40
Renewal, Raising or Lowering of Covers and Gratings on Existing Chambers and Gullies	41
Closed Circuit Television Drain Surveys	41
Series 600: Earthworks	43
Excavation and Disposal	43
Excavation in Hard Material	45
Imported Fill	45
Trial Pits	46
Siding out of Carriageways, Footways and Paved Areas	46
Series 700: Pavements	48

Sub-base	48
Pavement	48
Surface Treatment	51
Tack Coat	51
Cold Milling (Planing)	51
Cracking and Seating Existing Concrete Pavements	51
Repairs and Patching	52
Ex-situ recycling	54
Grip Testing	55
Series 1100: Kerbs, Footways and Paved Areas	57
Kerbs, Channels, Edgings, Combined Kerbs and Channels, Combined Drainage and Kerk and Linear Drainage Channel Systems	
Footways and Paved Areas	57
Cold Milling (Planing)	57
Series 1200: Traffic Signs and Road Markings	59
Traffic Sign Faces	59
Traffic Sign Posts	60
Concrete Bases	62
Replace Traffic Sign Lighting	63
Road Markings	64
Road Studs	66
Marker Posts	66
Permanent Bollards	66
Chevrons	67
Series 1300: Road Lighting Columns, Brackets, CCTV Masts & Cantilever Masts	69
Road Lighting Columns, Brackets, Wall Mountings, CCTV Masts & Cantilever Masts	69
Replace Luminaires	70
Conspicuity Banding to Existing Assets	71
Series 1400: Electrical Work for Road Lighting and Traffic Signs	73
Locating Buried Road Lighting and Traffic Signs Cables	73
Trench, Duct and Cable	73
Cable Joints and Terminations	76
Feeder Pillars	76
Permanent Disconnection of Cables	78
Series 1500: Motorway Communications	81
Locating Buried Communications Cable	81
Loop Detector Installations	81
Series 1700: Structural Concrete	82
Structural Concrete Repairs	82
Series 2000: Waterproofing for Structures	84

Replacement of Existing Waterproofing	84
Series 2300: Bridge Expansion Joints and Sealing of Gaps	86
Bridge Deck Expansion Joints	86
Series 3000: Landscape and Ecology	88
Ground Preparation and Cultivation	88
Maintenance of Established Trees and Shrubs	89
Series 3300: Site Investigation	90
Rotary Coring of Existing Pavement	90
Structural Investigations	91
Falling Weight Deflectometer Tests	91
Dynamic Cone Penetrometer Tests	92
Series 6100: Core Operations	94
Core Operations	94
Series 6200: Professional Services	101
Professional Services	101
Series 6300: Fee Percentages for Design, Procurement and Manag	gement 104
Generally	104
Fee Percentages for Design of Schemes to be Constructed by the	he Operating Company104
Fee Percentages for Design, Procurement and Management of \	Norks Contracts105
Series 6400: Adjustment to Schedule of Rates and Prices	108
Working outwith Normal Working Hours	108
Series 6500: Time Work Schedule	109
Time Work Schedule	109
Labour	109
Plant	112
Materials	114
Series 6600: Third Party Works	116
Third Party Works	116
Series 6700: Changes in Scope of Operations	118
Changes in the Extent of the Unit Impacting on Core Operations	ltems in Series 6100118
Series 6800: Carrying out Operations in another unit	120
Percentage Adjustment to value of Operations Executed in Ano	ther unit120
Series 6900: Payment of Accounts	121
Payment of Accounts	121
Series 7000: Lump Sum Quotations	123
Lump Sum Quotations	123
Appendix 1 – Rates and Prices	Error! Bookmark not defined
Appendix 2 – Breakdown of Rates, Prices and Key People	Error! Bookmark not defined

Method of Measurement: General

Method of Measurement for Highway Works

Volume 4 Section 1 Method of Measurement for Highways Works hereby apply unless amended otherwise by this Schedule 4 Measurement, rates and prices.

Notes for Guidance on Method of Measurement

Notes for Guidance contained within Volume 4 Section 2 Method of Measurement for Highway Works will apply except where the Method of Measurement has been amended by this Schedule 4 Measurement, rates and prices.

Library of Standard Item Descriptions

The library of standard descriptions as contained within Volume 4 Section 3 Method of Measurement for Highways Works is not used.

Chapter I			
Chapter			

Definitions

Definitions

In this Schedule 4 Measurement, Rates and Prices, defined terms have capital initials and a glossary of all defined terms applicable to the Contract are set out in Schedule 1 - Conditions of Contract, Clause 1 General, 1.1 Definitions.

Additional definitions given in Volume 4 Section 1 Chapter I of the Manual of Contract Documents for Highway Works hereby apply unless amended otherwise and as stated below.

- Delete all references to "Bill of Quantities" and replace with "Schedule of Rates and Prices".
- Delete all references to "Contractor" and replace with "Operating Company".
- Delete sub paragraph 1(c) and insert the following sub paragraph 1(c):
 - 1(c) "Schedule of Rates and Prices" means a list of items giving brief identifying descriptions each of which have a financial or percentage rate.

Chapter II

General Principles

General Principles

General Principles given in Volume 4 Section 1 Chapter II of the Manual of Contract Documents for Highway Works hereby apply except as stated below.

Delete all references to "Bill of Quantities" and replace with "Schedule of Rates and Prices".

Delete all references to "Contractor" and replace with "Operating Company".

Chapter III

Preparation of the Schedule of Rates and Prices

Preparation of the Schedule of Rates and Prices

Delete Preparation of Bill of Quantities set down in Volume 4 Section 1 Chapter III of the Manual of Contract Documents for Highway Works and replace with the following:

Sub-division of Schedule of Rates and Prices

The Schedule of Rates and Prices is to be divided as appropriate into separate levels of identification.

Units of Measurement

The following abbreviations shall be used for the units of measurement:

Unit	Abbreviation	Unit	Abbreviation
cubic metre	m³	month	month
day	day	number	no
		square	
hour	hr	metre	m²
kilogramme	kg	sum	sum
kilometre	km	tonne	t
metre	m	week	wk
millimetre	mm		

1

Preambles to the Schedule of Rates and Prices

Delete Preambles to Bill of Quantities set down in Volume 4 Section 1 Chapter III of the Manual of Contract Documents for Highway Works and replace with the following:

General Directions

The Schedule of Rates and Prices has been prepared generally in accordance with the principles used in 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 as amended by this Schedule.

The relevant publication date at the time of tender for each page of the *Method of Measurement for Highways Works* is given in the Schedule of Pages and Relevant Publication Dates within this Schedule 4 Measurement, rates and prices.

The Method of Measurement for Highway Works is amended:

- (i) by replacing the word "Contractor" wherever it occurs with the words "Operating Company",
- (ii) by construing any reference to "rates", "prices", "Rates", "Prices", "rates and prices" or "Rates and Prices" to mean a reference to rates and prices contained in the Schedule of Rates and Prices, and
- (iii) by replacing the full stop to the last item in Item coverages with a semi colon in every case where additional items have been added.
- In the Schedule of Rates and Prices 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, these Preambles, the amendments to the *Method of Measurement for Highway Works* immediately following these Preambles and the *Method of Measurement for Highway Works*, where not amended by this Schedule 4 Measurement, rates and prices.

The nature and extent of the work and, where relevant, its frequency of execution, is to be ascertained or assessed by reference to the

Conditions of Contract, the Scottish Ministers' Requirements, and this Preamble.

- The rates and prices entered in the Schedule of Rates and Prices 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 associated costs;
 - (ii) The supply of materials, goods, storage and associated costs including delivery to anywhere within the Unit, taking delivery of materials and goods supplied by others, unloading, storage, and associated costs;
 - (iii) Plant including Constructional Plant and associated costs;
 - (iv) Fixing, erecting and installing or placing of materials and goods in position;
 - (v) Temporary works and Design of temporary works;
 - (vi) Temporary repairs of Defects and maintaining temporary repairs prior to permanent repair;
 - (vii) The effect on the phasing of the Operations or any element of the Operations to the extent set forth or reasonably implied;
 - (viii) General obligations, liabilities and risks involved in the execution of the Operations set forth or reasonably implied in the documents on which the Final Tender Submission is based;
 - (ix) Temporary accommodation and welfare at individual Sites and all accommodation, depots, stores and other similar facilities required by the Operating Company;
 - (x) Wastage and consumables;
 - (xi) Testing and measuring in accordance with this Contract including supplying results of tests and measurements including providing test Certificates;
 - (xii) Attendance and transport for sampling and testing carried out by the Overseeing Organisation;

- (xiii) Checking, inspecting, examining, measuring and verifying goods, materials and workmanship including supplying results, reports and Certificates;
- (xiv) Traffic safety and traffic management measures as required by this Contract;
- (xv) All travelling connected with Operations;
- (xvi) Complying with the quality management requirements of this Contract and providing Certificates of conformity;
- (xvii) Providing land for plant including Constructional Plant, stores, working space, borrow pits or spoil dumps required;
- (xviii) Communication system;
- (xix) Insurance provision;
- (xx) All obligations, activities duties and responsibilities of the Operating Company set out in this Contract commencing at the Service End Date until such time as such obligations activities duties and responsibilities have been executed by the Operating Company;
- (xxi) Vehicles, communication system and operatives for the Overseeing Organisation;
- (xxii) Consultation approvals consents and any other thing required from to or with the Operational Partners to obtain access and method of working for rebuilding including but not limited to Historic Scotland to enable timescales for rebuilding to be achieved;
- (xxiii) Information signs and or boards on all Sites;
- (xxiv) Access provision, maintenance and removal including Design of accesses;
- (xxv) Temporary diversion of traffic;
- (xxvi) Temporary disconnection of electrical assets and reconnection;
- (xxvii) Temporary overhead feed to road lighting units
- (xxviii) Keeping, maintaining and providing all supporting records of the Operations; including measurement records, photographic

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records, material delivery tickets, waste transfer records, inspection and testing records;

(xxix) Obtaining data from and importing data into the systems of the Scottish Ministers;

(xxx) Site clearance including removal of vegetation

(xxxi) Locating buried cables as Series 1400 paragraph 4 and Series 1500 paragraph 4;

(xxxii) Overheads and profit.

Measurement

The measurement of quantity against each item shall be computed from the dimensions stated in the Design or physically measured in the absence of such dimensions unless stated otherwise in this Schedule 4.

The measurement of quantity against each item shall be computed net to the nearest whole number, except for:

- measurement of tonnage and kilometres in which cases the quantities shall be to three decimal places;
- (ii) measurement of hours for which the quantity shall be to the nearest quarter hour;
- (iii) measurement of mobilisation items which shall be a % of the item sum to the nearest whole percentage point;
- (iv) measurement of months shall be to one decimal place.

Adjustment Items

5 The Schedule of Rates and Prices contains adjustment items.

The purpose of the adjustment item is to vary the content of the original item to which the adjustment applies.

Where adjustment items have been included in the Schedule of Rates and Prices they shall be deemed to include the same features and Item coverage of the original Schedule of Rates and Prices item to which they apply.

Pricing of Items

6 Rates and prices are expressed to two decimal places.

For items where the rate is '%', a percentage value is expressed and not a decimal equivalent. For example, five percent is expressed as '5' and not '0.05'.

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Summation of Like Work

Where provision has been made in the Schedule of Rates and Prices for items of like work to be measured and paid for in various quantity bands, the measurement shall be that obtained by the summation of the final quantities of like work within a Scheme, unless otherwise stated.

For example, where several separate areas of surface course are carried out within a Scheme the item measured will reflect the summated quantities of surface course replaced.

Alternative Specified
Materials, Designs and
Options Within Types of
Pavement

Where a choice of alternatives is permitted in this Contract, the item description and the rates and prices inserted shall be deemed to include any of the permitted alternative materials or Designs the Operating Company may elect to use.

In all cases the rates and prices inserted in all Series of the Schedule of Rates and Prices shall be deemed to include for any adjustments of work content, rates, costs, programming, method of working and other effect occasioned by the choice of alternatives elected to be used or constructed by the Operating Company.

Privately and Publicly Owned Services or Supplies The Operating Company shall allow in the rates and prices for locating, marking and taking measures for the support and full protection of pipes, cables and other apparatus.

The rates and prices shall include for obtaining the written consent and anything else required of, from, to or with the Relevant Organisation or Operational Partner to interrupt the service or supply and for keeping the Scottish Ministers informed in writing of all arrangements it makes with owners of privately owned services or supplies, Undertakers and Statutory Authority and other parties as appropriate.

Landfill Tax

Location, Frequency and timescales of Schedule items	10	The Operating Company shall allow in the rates and prices for carrying out the Operations at any location within or associated with the Unit. This will include any additional inventory listed in Schedule 2 Appendix 1 Attachment 1.4 Trunk Roads Outside the Unit, and any other location within 1 km straight-line distance of the nearest Trunk Road boundary.
		The Operating Company shall allow in the rates and prices for carrying out the Operations and shall also allow for the items in the Schedule of Rates and Prices being used only once, a number of times or not at all during this Contract.
		The Operating Company shall allow in the rates and prices for undertaking any Operations within the timescales prescribed in this Contract and or any Order.
Roadworks Overall Requirements	11	The Operating Company shall allow in the rates and prices for complying with requirements in respect of pavement construction, horizontal alignments, surface levels and surface regularity of pavement courses, cold weather working, use of surfaces by traffic and plant including Constructional Plant, and general requirements for sub-bases and road bases.
Work Above Non-Tidal Open Water or Tidal Water	12	The Operating Company shall allow in the rates and prices for taking measures to execute all Operations above non tidal open water and above mean high water springs.
		The mean high water springs and mean low water springs are equivalent levels relative to chart datum determined by the United Kingdom Hydrographic Office.
Dealing with Flow	13	The Operating Company shall allow in the rates and prices for taking measures to deal with the existing flow of water, sewage and other flowing material.
Taxes Levies Contributions Premiums Refunds or	14	The Operating Company shall allow in the rates and prices for all taxes, levies, contributions, premiums, refunds or landfill tax as described in Schedule 1 – Conditions of Contract – Clause 5 -

Payment.

Site Limitations and Constraints	15	The Operating Company shall allow in the rates and prices for complying with any limitations and constraints on the use of or connected with the Unit.	
Hard Material	16	"Hard material" means the following:	
		(a) material which requires the use of blasting, breakers or splitters for the removal but excluding individual masses less than 0.20 cubic metres, or	
		(b) existing pavements, footways, paved areas (but excluding unbound materials) and foundations in masses in excess of 0.20 cubic metres.	
Equivalent Products and Materials	17	Where the Operating Company offers an equivalent product or material in place of the one identified or specified, which is accepted for incorporation into the Operations by the Scottish Ministers, then the rates and prices are deemed to include for all the obligations and costs associated with the incorporation of the equivalent into the Operations, including but not limited to Design, provision of data and Drawings, Certificates, awaiting approvals consents and other similar considerations, re-submissions and modifications and amendments to the Operations.	
		Unless specifically stated to the contrary in this Contract the measurement of the Operations affected by the incorporation of the equivalent products and materials shall be based on this Contract and not on the Operations as amended and completed to incorporate the equivalent products and materials.	
Management and Supervision of Operations	18	The Operating Company shall allow in the rates and prices for the management and supervision by the Operating Company of Operations.	
Repair Work and Alterations	19	Various elements of the Schedule of Rates and Prices identify work of repair or alteration.	
		Notwithstanding such separately identified items the Operating Company shall allow in the rates and prices for executing any of the other items in the Schedule of Rates and Prices as repairs or alterations.	

Time Band Percentage 20 Adjustment

The Operating Company shall allow in the rates and prices in the Schedule of Rates and Prices for executing Operations during Normal Working Hours.

The following Series shall be deemed to allow for working at any time and shall not be subject to time band adjustment irrespective of when Operations are carried out:

- (i) items in Series 6100 to 6700 (inclusive) and 6900 to 7000 inclusive, and
- (ii) Items which have a Unit of measurement of "day", or "sum".

Other Work on the Unit, 21 the Police and Emergency Services

The Operating Company shall allow in the rates and prices for the presence from time to time of authorised contractors and bodies and other third parties executing work on the Unit.

Emergency Services require access through the Unit at all times and the Operating Company shall allow in the rates and prices for complying with this requirement.

Journey Time Reliability 22

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The Operating Company shall allow in the rates and prices for nonproductive work or restricted working hours due to having to accommodate public or road users to facilitate journey time reliability.

Traffic Safety and Traffic Management

The Operating Company shall allow in the rates and prices for traffic safety and traffic management to undertake the Operations.

The rates and prices shall include the Design, provision, maintenance and removal of and any costs related to traffic safety and traffic management measures referred to in Schedule 5 – Specification & Drawings and the following:

- (i) phasing the Operations in a manner acceptable to the Director, Traffic Scotland and the police for the continuing flow of traffic including maintaining access to properties;
- (ii) complying with the requirements of the 'Traffic Signs Regulations and General Directions' and with the recommendations contained in Chapter 8 of the Traffic Signs Manual or where the circumstances of any particular case are not covered, including but not limited to any additional traffic safety and traffic management measures required by the police, submitting proposals for dealing

with such situations including but not limited to risk assessments and other similar reports information and advice to the Director;

- (iii) enhancement of the requirements of Chapter 8 of the *Traffic Signs Manual* as deemed necessary by the Operating Company to satisfy specific Site safety risk assessments;
- (iv) continuing traffic safety and management outside the boundaries of the Unit when associated with Operations on the Unit and including all necessary liaison with Relevant Organisations, Statutory Authorities, Undertakers, Operational Partners, relevant authorities and other third parties;
- (v) requirements to deal with reduced Lane widths due to any reason including but not limited to convoy working;
- (vi) alterations to traffic management measures or programmes to take account of events on or outwith the Unit that prevent or constrain the use of traffic management or planned Operations;
- (vii) Provision of time-related advance notification for Operations including variable messaging signage.

Measuring, Sampling and Testing

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The Operating Company shall allow in the rates and prices for measuring, sampling and testing as required by this Contract.

Payments to
Undertakers

The Operating Company may be required to place orders with Undertakers, holders of licences issued in accordance with Section 109 of the *New Roads and Street Works Act 1991*, franchise holders, and other similar parties for renewal, maintenance or repair of services on the Unit and the payment for such orders may be required in advance of the work being undertaken and the Operating Company shall allow for this and all associated costs in dealing with payments to Undertakers.

Disposal of Waste

Where the Item coverage requires disposal of waste the Operating Company shall allow in the rates and prices for disposal to a licensed disposal or recycling facility.

Remove from Store

The Operating Company shall allow in the rates and prices for remove from store for collecting from stores on or off the Site or from where material has been set aside.

Changes in Cost	28	The Operating Company shall allow in the rates and prices for all changes in the cost of Contract Personnel, plant including Constructional Plant, materials or other costs incurred that are not recovered through the provisions of Schedule 1 – Conditions of Contract, Clause 5 – Payment, for Contract Price Fluctuations.	
Additional Series	29	In additior included:	n to the standard Series the following additional Series are
		3300	Site Investigation,
		6100	Core Operations,
		6200	Professional Services,
		6300	Fee Percentages for Design, Procurement and Management,
		6400	Adjustment to Schedule of Rates and Prices,
		6500	Time Work Schedule,
		6600	Third Party Works,
		6700	Changes in Scope of Operations,
		6800	Carrying out Operations in another unit,
		6900	Payment of Accounts,
		7000	Lump Sum Quotations.
Amendment to the Method of Measurement	30	•	urpose of this Contract the <i>Method of Measurement for</i> Works is amended in accordance with the following n dates:

Schedule of Pages and Relevant Publication Dates

Page Number	Publication Date
1	November 2004
2	May 2005
3	November 2004
4 to 7 inclusive	May 2005
1 to 3 inclusive	March 1998
1	March 1998
2	May 2001
1	March 1998
2	May 2001
3 to 12 inclusive	May 2004
13	November 2006
14 to 16 inclusive	May 2005
15 to 19 inclusive	November 2006
1	March 1998
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
1	May 2001
2 to 3 inclusive	May 2004
4	May 2001
1 to 5 inclusive	May 2001
1 to 2 and 4 to 8 inclusive	November 2004
3	November 2006
	2 3 4 to 7 inclusive 1 to 3 inclusive 1 2 1 2 3 to 12 inclusive 13 14 to 16 inclusive 15 to 19 inclusive 1 1 to 2 inclusive 3 to 7 inclusive 8 9 to 11 inclusive 12 13 to 15 inclusive 1 2 to 3 inclusive 4 1 to 5 inclusive 1 to 2 and 4 to 8 inclusive

Chapter/Series	Page Number	Publication Date
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	Not taken up	
900	Not taken up	
1000	Not taken up	
1100	1	May 2001
	2	November 2004
	3	May 2001
	4 to 5 inclusive	May 2002
	6	May 2001
	7 to 8 inclusive	May 2005
1200	1 to 2 inclusive	May 2001
	3 to 5 inclusive	March 1998
	6 to 11 inclusive	May 2001
1300	1 to 3 inclusive	November 2003
1400	1 to 2 inclusive	May 2001
	3	May 2005
	4 to 8 inclusive	May 2001
	9	May 2005
1500	1 to 2 inclusive	May 2001
	3	May 2005
	4 to 7 inclusive	February 2003
	8 to 12 inclusive	May 2001
1600	1 to 2 inclusive	March 1998
	3 to 6 inclusive	May 2001
	7	March 1998
	8 to 19 inclusive	May 2001
1700	1	May 2004
	2	May 2001

Chapter/Series	Page Number	Publication Date
	3	May 2004
	4 to 11 inclusive	May 2001
1800	1	March 1998
	2 to 5 inclusive	May 2001
1900	1	May 2003
2000	1	May 2002
	2 to 3 inclusive	May 2001
2100	1	March 1998
2200	Not taken up	May 2004
2300	1 to 3 inclusive	March 1998
2400	1 to 3 inclusive	May 2001
	4	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

Chapter IV			

Units and Method of Measurement

Series 100: Preliminaries

Delete paragraphs 1 to 33 inclusi	ive	Э.
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Delete paragraph 34 to 39 inclusive and insert the following paragraphs 34 to 37 inclusive:

Recovery Vehicles

	11000101	y vernoics
Units	34	The unit of measurement shall be:
		(i) recovery vehicleday.
Measurement	35	The measurement of recovery vehicles shall be for each day or part thereof during which the recovery vehicle is provided.
		Recovery vehicles are deemed to be Site based and not subject to a standby facility.
Itemisation	36	Separate items shall be provided for recovery vehicles in accordance with Chapter II paragraphs 3 and 4 and the following:
		Group Feature
		I 1 Each type of recovery vehicle.
Recovery	37	The items for recovery vehicles shall in accordance with the
Vehicles		Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) equipment including communications equipment and identification sign;
		(b) all taxes levies licensing certification and other similar requirements for operating on the public road or highway;
		(c) comprehensive insurance;
		(d) replacement vehicle including equipment;
		(e) depreciation;
		(f) maintenance;
		(g) fuel, oil and consumables;

- (h) qualified operator and safety officer and provision of documents;
- (i) completion and submission of information log sheets and record sheets;
- (j) vehicle inspections and submission of Certificates;
- (k) dealing with shed loads, broken down, accident damaged or abandoned vehicles and removal;
- (I) explanatory leaflets and distribution;
- (m) liaising with police;
- (n) hardstandings, accommodation and servicing;
- (o) locations and facilities for vehicle removal;
- (p) removal of all plant including Constructional Plant, , equipment, hardstandings, accommodation and locations and facilities for vehicle removal;
- (q) vehicle inspection and report;
- (r) lighting board.

After paragraph 55 insert the following paragraphs 56 to 59 inclusive:

Mobilisation

Units

The unit of measurement shall be:

(i) mobilisationitem.

Measurement

The maximum payment that may be made for mobilisation activities during the Mobilisation Period prior to Commencement of Service is £1,500,000 or 50% of the mobilisation value, whichever is lower.

Following Commencement of Service, the balance of mobilisation may be included in the Operating Company's monthly application for payment pro rata over the first twelve payment applications following Commencement of Service. For example, if £1,500,000 is unmeasured at Commencement of Service the pro rata payment per month following Commencement of Service would be £1,500,000 x $\frac{1}{12}$ £125,000.

		Any mobilisation activity not priced in this subsection will be deemed included in the Item coverage for other Core Operations items.
Itemisation	58	Separate items shall be provided for mobilisation in accordance with Chapter II paragraphs 3 and 4 and the following:
		Group Feature
		I 1 Mobilisation.
Mobilisation	59	The item for mobilisation shall in accordance with the Preambles to
		Schedule of Rates and Prices General Directions include for:
Item coverage		(a) Everything associated with mobilisation for the Contract.

Series 200: Site Clearance

	After par	agraph 1 insert the following paragraph 1A:
Definitions	1A	Delete all references to "tip" and replace with "licensed facility". "licensed facility" means a licensed disposal facility or a licensed recycling facility.
	Litter Cle	earance
	After par	agraph 11 insert the following paragraphs 12 to 20 inclusive:
Definitions	12	Grades are those referred to in Code of Practice on Litter and Refuse (Scotland) 2018.
Units	13	The units of measurement shall be:
		(i) litter clearance kilometre.
Measurement	14	Litter clearance shall only be measured where Transport Scotland requires the Operating Company to carry out litter clearance on roads which are normally the responsibility of local authorities.
		Measurement shall be the linear length of associated highway from verge to boundary irrespective of the width of clearance.
Itemisation	15	Separate items shall be provided for keeping land clear of litter and refuse in accordance with Chapter II paragraphs 3 and 4 and the following:
	-	Group Feature
	_	I 1 Litter clearance from highway verge.
	- -	II 1 Improve from Grade E classification to Grade B classification.
Litter clearance	16	The items for litter clearance shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) picking up litter; (b) placing in sacks:
		(b) placing in sacks;

(c) disposal of material (as Series 600 paragraph 39).

Sweeping of Carriageway

Units	17	The units of measurement shall be:
		(i) Sweeping edge of carriageway or hard shoulder kilometre.
Measurement	18	Sweeping of carriageway shall only be measured where Transport Scotland requires the Operating Company to sweep roads which are normally the responsibility of Local Authorities.
		Measurement shall be the linear length of associated highway.
Itemisation	19	Separate items shall be provided for sweeping edge of carriageway or hard shoulder in accordance with Chapter II paragraphs 3 and 4 and the following:
		Group Feature
		I Sweeping edge of carriageway or hard shoulder.
Sweeping of	20	
carriageway		The items for sweeping shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
carriageway Item coverage		. 9
	_,	Schedule of Rates and Prices General Directions include for:
		Schedule of Rates and Prices General Directions include for: (a) hand or mechanical sweeping;

Series 300: Fencing

	Fencing	, Gates and Stiles
	Delete p	paragraphs 1, 2 and 3 and insert the following paragraphs 1 to 3
Units	1	The units of measurement shall be:
		(i) fencing linear metre,
Measurement	2	Temporary fencing shall not be measured.
		The measurement of permanent fencing shall be the developed length along the centre-line of the fence. The measurement of height of fencing shall be that stated in this Contract for the type of fence.
Itemisation	3	Separate items shall be provided for permanent fencing in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 Each type of fencing.
	1 Fencing of different heights.

Fencing 4 In paragraph 4 insert after (x) the following (y):

Item coverage

(y) removal of debris and other similar material on the line of the fencing.

Series 400: Road Restraint Systems (Vehicle & Pedestrian)

Safety Barriers and Transitions

Itemisation

In paragraph 4 delete Groups and Features and insert the following Groups and Features.

Group	Feature		
I	1 Safety Barrier.		
	2 Extra over safety barrier designed to be impacted on		
	one side for being designed to be impacted on both		
	sides.		
II	1 Each containment performance class.		
III	Each working width class or range of working width		
	classes.		
IV	Designed to be impacted on one side only.		
V	1 Galvanisation requirement.		

Safety Barriers and Transitions

5 In paragraph 5 delete the Item Coverage and insert the following:

Item coverage

- (a) Design of the road restraint system, fabrication, installation, construction and testing;
- (b) provision of design calculations and details to the Overseeing
- (c) Organisation for acceptance;
- (d) reports, certificates;
- (e) provision of data and drawings;
- (f) re-submissions and modifications;
- (g) obtaining approvals;
- (h) Grouting under base plates of parapets.

After paragraph 5 insert the following paragraphs 5A to 5D

Additional Concrete Associated with Safety Barriers

		·
Units	5A	The units of measurement shall be:
		(i) Additional concrete associated with safety barrierscubic metre.
Measurement	5B	Additional concrete shall only be measured where it has the primary purpose of amending the Unit by providing support to embankments or verges between safety barrier post positions, and without which the safety barrier would still achieve the appropriate performance class.
		Otherwise any concrete provided in association with safety barriers shall not be separately measured.
		The measurement of additional concrete shall exclude the volume of concrete required by the design to achieve the stated safety barrier performance class.
Itemisation	5C	Separate items shall be provided for additional concrete in association with safety barriers in accordance with Chapter II paragraphs 3 and 4 and the following:
		Group Feature
		I 1 Additional concrete associated with safety barriers
Additional Concrete Associated with	5D	The items for additional concrete associated with safety barriers shall in accordance with the Preambles to Schedule of Rates and Prices
Safety Barriers		General Directions include for:
Safety Barriers Item coverage		General Directions include for: (a) excavation in any material (as Series 600 paragraphs 17, 18, 19 and 23),
-		(a) excavation in any material (as Series 600 paragraphs 17, 18,
-		(a) excavation in any material (as Series 600 paragraphs 17, 18, 19 and 23),
-		 (a) excavation in any material (as Series 600 paragraphs 17, 18, 19 and 23), (b) disposal of material (as Series 600 paragraph 39),
-		 (a) excavation in any material (as Series 600 paragraphs 17, 18, 19 and 23), (b) disposal of material (as Series 600 paragraph 39), (c) concrete (as Series 1700 paragraphs 5 and 10), (d) formwork (as Series 1700 paragraph 15),
-		 (a) excavation in any material (as Series 600 paragraphs 17, 18, 19 and 23), (b) disposal of material (as Series 600 paragraph 39), (c) concrete (as Series 1700 paragraphs 5 and 10),

(g) plastic sheeting.

Terminals

Itemisation

8 In paragraph 8 delete Groups and Features and insert the following Groups and Features:

Group	Feat	ture
I	1	Terminal.
	2	Extra over terminal designed to be impacted on one side for being designed to be impacted on both sides.
II	1	Each performance class.
III	1	Designed to be impacted on one side only.

Vehicle Parapets

In paragraph 18 add the following:

Units

18 (ii) infill panel.....square metre.

After paragraph 19 insert the following paragraph 19A:

Measurement

Where infill is required to vehicle parapets it shall be separately measured.

The measurement of infill shall be the developed length along the centreline of the infill multiplied by the height of the infill.

Itemisation

20 In paragraph 20 delete Groups and Features and insert the following Groups and Features:

Group	Feat	ture
I	1	Vehicle parapet.
	2	Infill panel to vehicle parapet.
П	1	Each containment performance class.
III	1	Each Working Width Class or range of Working Width Class.
IV	1	Different heights.

VI	1	Class of infill panel.
VII	1	Type of infill panel.
VIII	1	Galvanisation requirement.

Note 1: Group II, III and IV Features shall only be applied to Group I Feature 1.

Note 2: Group VI and VII Features shall only be applied to Group I Feature 2.

Pedestrian Parapets and Pedestrian Guardrails

Itemisation

In paragraph 25 delete Groups and Features and insert the following Groups and Features:

Group	Feat	Feature	
ı	1	Pedestrian parapet.	
	2	Pedestrian guardrail.	
VII	1	Different classes.	
VII	1	Different heights.	
VII	1	Straight or curved.	
VII	1	Galvanisation requirement.	

Temporary Safety Barriers Functioning as a Permanent Parapet

After paragraph 47 insert the following paragraphs 48 to 51 inclusive:

Units

The units of measurement shall be:

(i) temporary safety barrier metre.

Measurement

The measurement of temporary safety barrier shall be the developed length along the centre-line of the temporary safety barrier including terminal sections.

Temporary safety barrier shall only be measured where the temporary safety barrier is acting as a permanent parapet. All other temporary safety barrier shall not be measured.

Itemisation

50

Separate items shall be provided for temporary safety barriers in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
1	Temporary safety barrier functioning as a permanent parapet.
II	Each containment performance class.
III	Each working width class or range of working width classes.

Temporary Safety 51 Barriers Functioning as a Permanent

The items for temporary safety barriers functioning as a permanent parapet shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

Item coverage

Parapet

- (a) safety barriers and transitions (as this Series paragraph 5);
- (b) terminals (as this Series paragraph 9);
- (c) dismantling, loading, transporting removal and unloading;
- (d) maintenance, which includes for all time-related costs associated with keeping the temporary safety barrier in both condition and position.

Series 500: Drainage and Service Ducts

Drains and Service Ducts (Excluding Filter Drains, Narrow Filter Drains and Fin Drains) Units 9 In paragraph 9 after (i) insert the following (ii): (ii) extra over drain for concrete bed and surround (bed Type Z)metre Itemisation 15 In paragraph 15 delete Groups and Features and insert the following Groups and Features: Group Feature Drains. 2 Service ducts. Extra over drain for concrete bed and surround (bed Type Z). Different internal diameters. Ш Ш Depths to invert not exceeding 2 metres. The average depth to invert to be stated to the nearest 25 mm. Depths to invert exceeding 2 metres but not exceeding 4 metres and so on in steps of 2 metres. The average depth to invert to be stated to the nearest 25 mm. IV Specified design groups. Particular designs stated in the Contract.

Note: For each item which includes Group III Feature 1 or 2, an associated item shall be provided for adjustment of the rate for each 25 mm of difference in excess of 150 mm where the average depth to invert calculated from site measurement varies from that stated in the Schedule of Rates. The foregoing shall apply to both increases and

1 Construction in trench.

decreases of average in excess of 150 mm, and will result in either a positive or negative adjustment of the rate

Note: Groups II, IV and V shall not apply to Group I Feature 3.

Filter Drains

Measurement

20 In paragraph 20 delete the fourth paragraph and insert the following:

The measurement of excavate and replace filter material shall include contiguous filter material between the filter drain and the adjacent carriageway, hardshoulder and hardstrip.

The measurement of excavate and replace filter material excluding contiguous filter material shall be the product of the lengths, widths and depths ordered with no deduction for pipes, ducts or chambers. Lengths and widths for filter drains shall be taken as the lengths and widths at the level of the drain invert or, in the case that partial excavation is ordered, at the depth to which excavation is ordered.

The widths of excavate and replace contiguous filter material shall be between the side of the contiguous filter material next to the filter drain which shall be taken as the vertical extension of the side at the level of the drain invert or, in the case of partial excavation, at the depth to which excavation is ordered and the adjacent carriageway, hardshoulder and hardstrip. The depth of the contiguous filter material next to the filter drain shall be taken above capping or where no capping is provided above subgrade level. Where the filter material is covered with red chippings the top surface of the excavate and replace filter material shall be the underside of the red chippings.

The item for "any type of filter material contiguous with filter drain" shall only be measured when contiguous material is imported as fill adjacent to a filter drain.

It shall not be measured for any volumes whereby "excavate and replace any type of filter material" is measured because this would constitute a double measurement.

In paragraph 24 after (d) insert the following (e) and (f):

NORTH EAST UNIT		
Excavate and Replace Filter Material	24	The items for excavate and replace filter material shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(e) cleaning and replacing excavated filter material;(f) new and recycled filter material.
		al, Raising or Lowering of Covers and Gratings on Existing pers and Gullies
Itemisation	63	In paragraph 63 delete Groups and Features and insert the following

03	ın paragra	apri os delete G	roups and realures and insert the following
	Groups a	nd Feature:	
	Group	Feature	

Group	Feature	
Ī	1 Renewal.	
	2 Raising or lowering the level.	
II	1 Area not exceeding 0.30 square metres.	
III	1 Not exceeding 150 mm.	
	That axeed any recomm.	

Renewal, Raising	64	In paragraph 64 after (t) insert the following (u):
or Lowering of		
Covers and		
Gratings on		
Existing		
Chambers and		
Gullies		

Closed Circuit Television Drain Surveys

After paragraph 84 insert the following paragraphs 85 to 88 inclusive:

paving material infilling around covers.

Units 85 The units of measurement shall be:

(u)

Item coverage

(i) closed circuit television drain survey..... linear metre.

Measurement	86	The measurement of drain survey by closed circuit television camera shall be the length measured along the centre-lines of the pipes between any of the following:
		(a) the external faces of chambers, gullies or headwalls;
		(b) the intersection of the centre-lines at pipe junctions;
		(c) the position of any known terminations.
Itemisation	87	Separate items shall be provided for closed circuit television surveys in accordance with Chapter II paragraphs 3 and 4 and the following:
		Group Feature
		I Closed circuit television drain survey.
Closed Circuit	88	The items for closed circuit television drain surveys shall in
Television Drain		accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Surveys		General Directions include for.
Item coverage		(a) locating chambers, pump chambers, balancing ponds, penstocks, flap valves, headwalls, outfalls, and the like;
		(b) removing and reinstalling covers and gratings;
		(c) moving and setting up closed circuit television camera
		equipment;
		(d) inserting equipment into drains;
		(e) water supply;
		(f) recording;
		(g) identification of locations recorded;
		(h) picture quality tests and linear measurement checks;
		(i) reporting;
		(j) setting up and removing closed circuit television equipment.

Series 600: Earthworks

	After pa	ragraph 13 insert the following paragraphs 13A and 13B:
Measurement General	13A	Excavation and disposal are to be measured as a single Operation for different materials. Delete all references to "excavation" in paragraphs 14 to 19 and replace with "excavation and disposal".
	13B	Where deposition of acceptable material has been approved as an alternative to disposal, Item Coverage also includes for deposition.
		Excavation and Disposal
Itemisation	16	In paragraph 16 delete Groups and Features and insert the following Groups and Features:
		Group Feature
		I 1 Excavation and Disposal.
		II 1 Acceptable material.
		2 Unacceptable material Class U1A or U1B.
		3 Unacceptable material Class U2.
		Delete paragraph 18 and insert the following paragraph 18:
Excavation and	18	The items for excavation and disposal of acceptable material shall in
Disposal of		accordance with the Preambles to Schedule of Rates and Prices
Acceptable Material		General Directions include for:
Item coverage		(a) loosening or breaking up material before or in the process of excavation;
		(b) upholding the sides;
		(c) working around and between piles;
		(d) overbreak and making good;
		(e) keeping earthworks free of water;
		(f) selection and separation of materials;

- (g) forming and trimming side slopes, benchings and berms;
- (h) trimming the bottom and sides of foundations;
- (i) grading beds and trimming sides of watercourses and the like;
- (j) protection of subgrade;
- (k) additional excavation the Operating Company may require for working space, timbering, formwork or other temporary works and its subsequent backfilling with approved materials and compaction;
- (I) taking precautions to avoid damage to property, Structures, drains, services, instrumentation and the like;
- (m) treatment of faces of cuttings which are not to receive topsoil;
- (n) loading into transport;
- (o) multiple handling of material;
- disposal of surcharge material (as this Series paragraph 39)
 where occasioned by the Operating Company's method of working;
- (q) disposal of surcharge material rendered unacceptable (as this Series paragraph 39);
- (r) waiting for frozen material to thaw;
- (s) haulage, deposition and compaction in temporary stockpiles including provision of locations for stockpiles;
- (t) replacing acceptable material rendered unacceptable;
- (u) breaking down material necessary to comply with the requirements of fill;
- (v) complying with Special Requirements for Class 3 material and other materials requiring special treatments;
- (w) completion of formation and sub-formation (as this Series paragraph 85);
- (x) disposal of material (as this Series paragraph 39);
- (y) compaction (as this Series paragraph 52);

19

(z) deposition of material (as this Series paragraph 33).

Delete paragraph 19 and insert the following paragraph 19:

Excavation and Disposal of Unacceptable Material

The items for excavation and disposal of unacceptable material shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

Item coverage

- (a) excavation and disposal (as this Series paragraph 18 (a) to(y));
- (b) special measures for dealing with Classes U1B and U2 material.

Excavation in Hard Material

Itemisation

In paragraph 22 delete Groups and Features and insert the following Groups and Features:

Group	Feature	
T	Extra over excavation for excavation in Hard Material.	
II	1 In all locations.	

Imported Fill

Itemisation

In paragraph 44 delete Groups and Features and insert the following Groups and Features:

Group	Feature
I	1 Imported acceptable material.
	2 Other stated classes of imported acceptable fill.
II	1 In all locations.

Imported Fill

In paragraph 45 insert the following after (n):

Item coverage

(o) Compaction of fill (as this Series paragraph 52);

Trial Pits

Itemisation

In paragraph 168 delete Groups and Features and insert the following Groups and Features:

Group	Feature
I	1 Trial pits.
П	1 0 metres to 1.5 metres in depth.

After paragraph 177 insert the following paragraphs 178 to 181

inclusive:

Siding out of Carriageways, Footways and Paved Areas

Units

178 The units of measurement shall be:

(i) siding out of carriageways, footways and paved areas
linear metre.

Measurement

The measurement of siding out of carriageways, footways and paved areas shall be the length along the cut edge.

No deduction shall be made for gaps within the length of 2 metres or less.

Itemisation

Separate items shall be provided for siding out of carriageways,

footways and paved areas in accordance with Chapter II paragraphs 3

and 4 and the following:

Group	Feature
I	Siding out of carriageways footways and paved
	areas.

Siding out of Carriageways, Footways and

Paved Areas

181

The items for siding out of carriageways, footways and paved areas shall in accordance with the Preamble to Schedule of Rates and Prices General Directions include for:

Item coverage

- (a) programming the work in advance of any other operation at the Site;
- (b) breaking up and removal of hardened dirt areas;
- (c) prevention of damage to existing carriageways, footways and paved areas;
- (d) disposal of material by spreading and levelling on verge or disposal of material (as Series 600 paragraph 39);
- (e) trimming of edges to a neat line;
- (f) leaving carriageway, footway and verge clear of debris.

Series 700: Pavements

Sub-base

Itemisation

In paragraph 4 delete Groups and Features and insert the following Groups and Features.

Group	Feature
Ī	1 Each group or type of sub-base.

Pavement

Delete paragraph 7 and insert the following paragraphs 7A to 7F:

Measurement

The measurement of base, lower base, upper base, binder course, surface course concrete slab, adjustment for each 5mm variation above or below the stated thickness, adjustment for alternative PSV and adjustment for alternative AAV on surface course shall be calculated using the width of the top surface of the course or slab.

No deductions shall be made for openings of 1 square metre or less.

7B When base course is 150mm or less total thickness it shall be measured as a single layer of base course 100mm thick with +/- adjustments for each 5mm thickness difference where applicable.

Example 1: where base course of 105mm overall thickness is laid over a plan area of 400m², it shall be measured as follows:

- (i) Base Ba, Bb 100mm thick exceeding 70m² not exceeding 700m²: Quantity measured = 400m².
- (ii) Adjustment on base Ba, Bb 100mm thick item for each 5mm variation above or below the stated thickness:
 Quantity measured = 400m² (one number positive adjustment).

Example 2: where base course of 95mm overall thickness is laid over a plan area of 400m², it shall be measured as follows:

(i) Base Ba, Bb 100mm thick exceeding 70m² not exceeding 700m²: Quantity measured = 400m².

- (ii) Adjustment on base Ba, Bb 100mm thick item for each 5mm variation above or below the stated thickness:
 Quantity measured = -400m² (minus 400m², i.e. one number negative adjustment).
- When base course is greater than 150mm but not exceeding 250mm total thickness it shall be measured as two layers of base course with +/- adjustments for each 5mm thickness difference where applicable; the applicable base course item will be that represented by the summated quantities.

Example 1: where base course of 210mm overall thickness is laid over a plan area of 400m², it shall be measured as follows:

- (i) Base Ba, Bb 100mm thick exceeding $700m^2$: Quantity measured = $(400m^2 + 400m^2) = 800m^2$.
- (ii) Adjustment on base Ba, Bb 100mm thick item for each 5mm variation above or below the stated thickness:
 Quantity measured = 800m² (two number positive adjustments).

Example 2: where base course of 185mm overall thickness is laid over a plan area of 400m², it shall be measured as follows:

- (i) Base Ba, Bb 100mm thick exceeding 700m^2 : Quantity measured = $(400\text{m}^2 + 400\text{m}^2) = 800\text{m}^2$.
- (ii) Adjustment on base Ba, Bb 100mm thick item for each 5mm variation above or below the stated thickness:
 Quantity measured = -1,200m² (minus 1,200m², i.e. three number negative adjustments).
- When base course is greater than 250mm but not exceeding 350mm total thickness it shall be measured as three layers of base course with +/- adjustments for each 5mm thickness difference where applicable. The applicable base course item will be that represented by the summated quantities
- 7E When binder course is 90mm or less total thickness it shall be measured as a single layer of binder course 60mm thick with +/- adjustments for each 5mm thickness difference where applicable.

8

9

When binder course is greater than 90mm but not exceeding 150mm total thickness it shall be measured as two layers of binder course with +/- adjustments for each 5mm thickness difference where applicable. The applicable binder course item will be that represented by the summated quantities

Itemisation

In paragraph 8 delete Groups and Features and insert the following Groups and Features:

Group	Feature				
1	1 Base.				
	2 Binder course.				
	3 Surface course.				
	4 Adjustment for different thicknesses.				
	5 Adjustment for different PSV on surface course.				
II	1 Each group or type.				
III	1 Different thicknesses.				

Base, Binder
Course, Surface
Course,
Adjustment for
different
thicknesses and
PSV

In paragraph 9 delete (aa) and insert the following (aa):

Item coverage

(aa) slurry sealing, surface dressing, bituminous spray, resin based treatment, tack coat and bond coat (as this Series paragraph 24);

Surface Treatment

Ιt	e	m	IS	а	tι	O	n

In paragraph 18 delete Groups and Features and insert the following Groups and Features:

Group	Feature
T	1 Surface dressing.
	2 High friction surfacing, any colour.

Tack Coat

Delete paragraph 22 and insert the following paragraph 22:

Measurement

Tack coat shall not be separately measured and is included in the ltem coverage for this Series 700 paragraph 9.

Cold Milling (Planing)

After paragraph 26 insert the following paragraphs 26A and 26B:

Measurement

Disposal of hazardous (U2) material will be measured using the item 690001001 for invoiced costs of accounts.

26B

26A

Pavement material removed by any means other than milling shall nevertheless be measured as "milling". The depth of milling measured shall be the average depth of material removed.

Milling

28

61

In paragraph 28 delete (e) and insert the following (e):

Item coverage

(e) disposal of non-hazardous material (as Series 600 paragraph 39);

Cracking and Seating Existing Concrete Pavements

Delete paragraphs 60 to 69 and replace with the following paragraphs 60 to 64.

Units

The units of measurement shall be:

- (i) main trial..... item.
- (ii) cracking and seating..... m².

Measurement

The main trial shall be measured once only for each Scheme.

Itemisation

Separate items shall be provided for cracking and seating in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feat	ure
I	1	Main trial
	2	Cracking and seating existing pavement

Main Trial

The item for main trial shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for

Item Coverage

- (a) saw-cutting (as this Series paragraph 57);
- (b) cracking and seating existing pavements (as this Series paragraphs 58 and 59);
- (c) checking cracking;
- (d) checking saw cuts.

Cracking and Seating

The item for cracking and seating shall in accordance with Preambles to Schedule of Rates and Prices General Directions include for:

Item Coverage

- (a) saw-cutting (as this Series paragraph 57);
- (b) cracking and seating existing pavements (as this Series paragraphs 58 and 59);
- (c) checking cracking;
- (d) checking saw cuts.

Repairs and Patching

Delete paragraphs 77 to 81 and insert the following paragraphs 77 to 85 inclusive:

Definition

Temporary repair to a carriageway pavement Category 1 Defect means carrying out all necessary immediate make safe actions and temporary repair Operations to remove the Category 1 Defect pending permanent repair.

	78	Permanent repair shall be the replacement of surfacing and binder materials in any number of individual areas not exceeding 10 square metres by hand patching.
Units	79	The units of measurement shall be :
		(i) temporary repair to carriageway pavement Category 1 Defect number.
		(ii) repairs and patching to carriageways square metre.
Measurement	80	Where a temporary repair to a carriageway pavement Category 1 Defect is carried out the temporary repair may be separately measured.
		The temporary repair of carriageway pavement Category 1 Defect shall not be measured more than once per carriageway pavement Defect.
	81	For permanent repairs, adjustments for different thicknesses of repairs and patching and different PSV values will be measured using adjustment items in Subseries 070002 for the corresponding material types.
	82	For permanent repairs, pavement material removed by any means other than milling shall nevertheless be measured as "milling" using items in Subseries 070005 in accordance with the paragraphs 25 to 28 inclusive of this Series 700. The depth of milling measured shall be the average depth of material removed.
Itemisation	83	Separate items shall be provided for repairs and patching in accordance with Chapter II paragraphs 3 and 4 and the following:
		Group Feature
		I 1 Temporary repair to carriageway Category 1 Defect.
		Repairs and patching in surface course.
		3 Repairs and patching in binder course.
		II 1 Each type of material.
		2 Different thicknesses.

53 Schedule 4

Note: Group II shall not apply to Group I Feature 1.

Temporary Repairs of Carriageway Category 1 Defects	84	shall	tems for temporary repair to Carriageway Category 1 Defects in accordance with the Preambles to Schedule of Rates and s General Directions include for:
Item coverage		(a)	making the Defect safe, including erection and maintaining warning signs, removal of any hazard or by taking any other measures necessary to protect the public and other users of the Unit;
		(b)	removing all debris, loose material, water and road studs;
		(c)	drying;
		(d)	reinstatement with selected temporary repair material and compaction;
		(e)	shaping to cambers, falls and crowns;
		(f)	tack coat and bond coat (as this series paragraph 24);
		(g)	disposal of material (as series 600 paragraph 39);
		(h)	all of the above if the temporary repair fails before the permanent repair is completed.
Repairs and Patching	85	Prea	tems for repairs and patching shall in accordance with the mbles to Schedule of Rates and Prices General Directions de for:
Item coverage		(a)	Binder course, surface course (as this Series 700 paragraph 9).
	Ex-situ	recycli	ing
	After pa	ragraph	n 85 insert the following paragraphs 86 to 89 inclusive:
Definition	86		tu recycling includes foamed bitumen process which may be to recycle bituminous mixtures containing coal tar
Units	87	The ι	units of measurement shall be:
		(i)	ex-situ recycling square metre.

Itemisation

88

Separate items shall be provided for ex-situ recycling in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 Ex-situ recycling.
П	1 Different thicknesses.

Ex-situ recycling

89

The items for ex-situ recycling shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

Item coverage

- (a) milling (as this Series paragraph 28);
- (b) heating and scarifying;
- base, lower base, upper base, binder course, surface course (c) and concrete slab (as this Series paragraph 9);
- (d) make up to low areas and reprofiling;
- removal of surface dressing; (e)
- removal of road markings; (f)
- (g) transportation of material for recycling and recycled material to and from recycling plant;
- (h) special measurers to deal with hazardous material;
- (i) reports.

Grip Testing

After paragraph 89 insert the following paragraphs 90 to 93 inclusive.

Units

90 The units of measurement shall be:

> (i) grip testing..... km.

Measurement

91 Each carriageway Lane tested shall be separately measured. The measurement shall be computed net to the nearest whole number.

Itemisation

92 Separate items shall be provided for grip testing in accordance with

Chapter II paragraphs 3 and 4 and the following:

Group Feature

		I	1 Grip testing.	
Grip Testing	93	The items for grip testing shall in accordance with Preambles to Schedule of Rates and Prices General Directions include for:		
Item coverage		(a)	calibration checks;	
		(b)	pre-survey;	
		(c)	testing each section twice where required;	
		(d)	multiple and repeat testing;	
		(e)	recording of GPS data;	
		(f)	reporting.	

Series 1100: Kerbs, Footways and Paved Areas

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

Itemisation

In paragraph 3 delete Groups and Features and insert the following Groups and Features.

Group	Feature				
I	1 Kerbs.				
	2 Combined drainage and kerb blocks.				
T	1 Different types.				

Footways and Paved Areas

Delete paragraphs 13 to 20 and insert the following paragraphs 13 to 16:

Units

- 13 The units of measurement shall be:
 - (i) footway type square metre.

Measurement

- The measurement of footways and paved areas shall be the area of the top surface of the layer.
- No deduction shall be made for openings of 1 square metre or less.

Itemisation

Separate items shall be provided for footways and paved areas in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
T	1 Different types.

Cold Milling (Planing)

After paragraph 33 insert the following paragraphs 34 to 38 inclusive:

Units

- 34 The unit of measurement shall be:
 - (i) milling..... square metre.

Measurement

Measurement of cold milling (planing) shall be as Series 700 paragraph 26.

	36	Pavement material removed by any means other than milling shall nevertheless be measured as "milling" using items in this Series 1100. The depth of milling measured shall be the average depth of material removed.
Itemisation	37	Separate items shall be provided for milling of footways and paved areas in accordance with Chapter II paragraphs 3 and 4 and the following:
		Group Feature
		I Milling of footway and paved area depth not
		exceeding 100mm
Milling	38	The items for milling shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) milling as Series 700 paragraph 28.

Series 1200: Traffic Signs and Road Markings

3

4

Traffic Sign Faces

Delete paragraphs 1 to 5 and insert the following paragraphs 1 to 4 inclusive:

Units

- 1 The unit of measurement shall be:
 - (i) traffic sign faces..... square metre.

Measurement

The measurement of traffic sign faces shall be the surface area of the sign.

Temporary traffic sign faces shall not be measured.

Itemisation

Separate items shall be provided for traffic signs faces in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature	
I	1 Permanent Microprismatic traffic sign faces.	
	1 Sign face sized between 0 – 2.50 square metres in area.	
	2 Sign face sized between 2.50 – 5.00 square metres in area.	
	3 Sign face exceeding 5.0 square metres in area.	

Traffic Sign Faces

The items for traffic sign faces shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

Item coverage

- (a) covering and removal of coverings of signs;
- (b) location lettering and marking;
- (c) drilling or forming holes and pockets in Structures or lighting columns and casting in bolts, sockets and anchorage assemblies;
- (d) sign plates;
- (e) rivets, bolts nuts and other fastenings;

(f)

(g)

(h)

purlins and fixings;

protective treatment;

notices and recording;

preparation and supply of record drawings;

(i) (i) fixing to Structures including attachment systems and additional materials for hinges; (k) dew resistant sheeting. After paragraph 4 insert the following paragraphs 5 to 5D inclusive: **Traffic Sign Posts Definitions** 5 'Passively safe traffic sign posts' refers to posts compliant with BS EN 12767. Units 5A The unit of measurement shall be: (i) passively safe traffic sign posts......linear metre. Measurement 5B The measurement of passively safe traffic sign posts shall be the complete installation. 'Cross-sectional area' shall be measured as follows: For triangular and quadrilateral profiles the cross-sectional area shall be the external area of the triangle or quadrilateral. For all other profiles the cross-sectional area will be the minimum area of a quadrilateral that the profile may be contained within. Temporary traffic sign posts shall not be measured. Itemisation 5C Separate items shall be provided for traffic signs faces in accordance with Chapter II paragraphs 3 and 4 and the following: Group Feature Passively safe traffic sign posts. 2 Tubular steel traffic sign posts. Ш 1 Circular.

	2 Other profile.
III	1 Planted.
	2 Flanged base.
IV	1 Diameter.
V	1 Cross-sectional area not exceeding 0.05 square
	metres.
	2 Cross-sectional area exceeding 0.05 but not
	exceeding 0.10 square metres.
	3 Cross-sectional area exceeding 0.10 square metres
	but not exceeding 0.15 square metres.

Note 1: Group IV shall only apply to Group II Feature 1.

Traffic Sign Posts 5D

The items for traffic sign posts shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

Item coverage

- (a) location lettering and marking;
- (b) electrical equipment, wiring, and connections, excluding supply and control cable;
- (c) conduit including screwed and threaded connections, bends, tees and other similar features, draw wires;
- (d) backboard, fixing, protective caps, sealing, grommets, spacers, mounting plates and strips;
- (e) doors, locks and keys;
- (f) drilling or forming holes and pockets in Structures or foundations:
- (g) base plates, bolts, sockets and anchorage assemblies;
- (h) top plates and caps;
- (i) aligning, fixing and casting into foundations;
- (j) cutting post to length;
- (k) bedding and grouting;
- (I) protective system (as Series 1900 paragraph 4);

5E

5F

5G

Units

Measurement

Itemisation

(m) identification numbers; (n) threading cable through ducts sleeves and conduits; (o) complying with wiring regulations, earthing (other than earth electrodes); (p) protective treatment; (q) notices and recording; (r) preparation and supply of record drawings. After paragraph 5D above insert the following paragraphs 5E to 5H: **Concrete Bases** The unit of measurement shall be: (i) traffic sign basescubic metre. Concrete bases shall only be measured when required for traffic signs unless stated elsewhere. The measurement of concrete bases shall be the complete installation. Concrete bases shall be measured to the nearest 0.1 cubic metres. Separate items shall be provided for concrete bases in accordance with Chapter II paragraphs 3 and 4 and the following: Feature Group

J. 54.p	
I	1 Concrete bases.

reinforcement (as Series 1700 paragraph 26)

Concrete Bases The items for concrete bases shall in accordance with the Preambles 5H to Schedule of Rates and Prices General Directions include for: Item coverage (a) excavation and disposal of any material (as Series 600 paragraphs 18, 19 and 23 and 39); (b) backfilling and compaction; (c) in-situ concrete (as Series 1700 paragraph 5); (d) formwork (as Series 1700 paragraph 15);

(e)

- (f) ducts, sleeves, sockets and anchorages in bases;(g) reinstatement of surfaces;
- (h) preparation and supply of record drawings.

After paragraph 5H insert the following paragraphs 5I to 5L:

Replace Traffic Sign Lighting

Units 5I

- 5I The unit of measurement shall be:
 - (i) replace traffic sign lighting with LED luminaire excluding the invoiced costs of LED components, number.

Measurement

The measurement of replace traffic sign lighting shall be the complete installation except for earth electrodes which shall be measured separately under Series 1400 (paragraphs 24 to 27) and supply of LEDs and traffic sign lighting electrical components which will be measured under Series 1400 paragraphs 39 to 43.

Itemisation

5K Separate items shall be provided for replace traffic sign lighting in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature	
I	1 Replace existing luminaire to traffic sign with LED	
	luminaire.	

Replace Traffic Sign Lighting

5L

The items for replace traffic sign lighting shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

Item coverage

- (a) electrical equipment, wiring, and connections, excluding supply and control cable;
- (b) conduit including screwed and threaded connections, bends, tees and other similar features, draw wires;
- (c) threading cable through ducts, sleeves and conduits;;

- (d) complying with wiring regulations, earthing (other than earth electrodes), and inspection;

 (e) earth block and earthing of sign post and equipment;

 (f) light spill screens;

 (g) sign bracket arms;

 (h) earthing of sign post and equipment;

 (i) fixtures and fittings;
- (j) protective system (as Series 1900 paragraph 4);
- (k) threading cable through ducts sleeves, conduit and the like;
- (I) storage and handling of materials;
- (m) disposal of materials (as Series 600 paragraph 39).

Road Markings

Delete paragraph 9 and insert the following paragraph 9:

Units	9	The u	nit of measurement shall be:
		(i)	marking of solid areassquare metre,
		(ii)	marking of lineslinear metre,
		(ii)	marking of dot and line extrusionlinear metre, measured extra over thermoplastic extrusion line markings,
		(iv)	marking of cold plastic Methyl Methcrylate (MMA) screedlinear metre, measured extra over thermoplastic screed line markings,
		(iii)	marking of triangles, circles, circles with enclosing arrows, arrows, kerb markings, symbols, nodes, letters and numeralsnumber,
		(iv)	removal of solid areas, lines, triangles, circles, circles with

Measurement 11 Delete paragraph 11 and insert the following paragraph 11:

numerals square metre.

64 Schedule 4

enclosing arrows, arrows, kerb markings, symbols, letters and

Road markings shall be measured as lines and shall be grouped together according to width.

In the case of intermittent lines the measurement shall be of the marks only. Gaps between the marks shall not be measured. Double lines shall be measured as two single lines.

Diagonal lines between double lines and short transverse lines at the ends of any longitudinal lines shall be measured with the lines of which they form part.

Ancillary lines shall be measured using the items for continuous and intermittent lines. Ancillary lines include lines forming hatched areas, chevrons, zigzag lines, boxed areas and lines enclosing boxed areas. In the case of hatched areas and chevrons the enclosing lines shall be measured as the longitudinal line of which they form part. The measurement of zigzag lines shall include any transverse or longitudinal lines at their ends.

Delete paragraph 16 and insert the following paragraph 16:

Itemisation

Separate items shall be provided for marking and removal of road markings in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
1	1 Removal of road markings.
	2 Road markings.
II	1 Continuous and intermittent lines.
	2 Continuous lines.
	3 Raised rib lines.
	4 Triangles.
	5 Arrows.
	6 Letters and numerals.
III	1 Different materials.
IV	1 Different widths of lines.
	2 Different lengths of arrows.

	3 Different heights of letters and numerals.
V	Different diagram numbers for arrows.
VI	 Any line, solid area symbol or letter excluding raised rib lines.
	2 Raised rib lines.

Note 1: Group II to V shall only apply to Group I Feature 2.

Note 2: Group VI shall only apply to Group I Feature 1.

Road Studs

In paragraph 22 after (e) insert the following (f) and (g):

Road Studs

The items for road studs shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

Item coverage

- (f) surface preparation;
- (g) cleaning out existing sockets.

Marker Posts

In paragraph 39 delete sub paragraph (c) and substitute the following:

Marker Posts

The items for marker posts shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

Item coverage

(c) driving or excavating in acceptable material and driving or excavating in any material (as Series 600 paragraphs 17, 18, 19 and 23).

Permanent Bollards

Delete paragraph 42 and insert the following paragraph 42:

Permanent Bollards

The items for permanent bollards shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

Item coverage

- (a) traffic signs faces (as this Series paragraph 4);
- (b) traffic sign posts (as this Series paragraph 5D);

- (c) traffic sign bases (as this Series paragraph 5H);
- (d) preservation treatment of timber.

Chevrons

After paragraph 45 insert the following paragraphs 46 to 53 inclusive:

Units

46 The unit of measurement shall be:

(i) flexible chevrons linear metre.

Measurement

47 Measurement shall be the horizontal length of the complete chevron installation.

Itemisation

48 Separate items shall be provided for flexible chevrons in accordance

Separate items shall be provided for flexible chevrons in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature		
I	Passively Safe R3B microprismatic grade retroreflective rebound chevrons.		
II	Different heights of chevron symbol.		

Chevrons 49 The items for flexible chevrons shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

Item coverage

- (a) traffic signs faces (as this Series paragraph 4);
- (b) traffic sign posts (as this Series paragraph 5D);
- (c) traffic sign bases (as this Series paragraph 5H).

Snow Poles

Units	50	The unit of measurement shall be:
		(i) snow polesnumber.
Measurement	51	The measurement of snow poles shall be for the complete installation.
Itemisation	52	Separate items shall be provided for snow poles in accordance with Chapter II paragraphs 3 and 4 and the following:
		Group Feature
		I 1 Snow poles.
		II 1 External diameter.
		III 1 Length.
Snow Poles	53	The items for snow poles shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item Coverage		(a) excavation of acceptable material (as Series 600 paragraphs17 and 18),
		(b) excavation of unacceptable material (as Series 600 paragraph 19),
		(c) backfilling and compaction,
		(d) disposal of material (as Series 600 paragraph 39),
		(e) in situ concrete (as Series 1700 paragraph 5),
		(f) formwork (as Series 1700 paragraph 15),
		(g) reinforcement (as Series 1700 paragraph 26),
		(h) reinstatement of surfaces,
		(i) protective system (as Series 1900 paragraph 4),
		(j) numerals, symbols and reflectorised strips or discs including adhesive.

3

4

Series 1300: Road Lighting Columns, Brackets, CCTV Masts & Cantilever Masts

Road Lighting Columns, Brackets, Wall Mountings, CCTV Masts & Cantilever Masts

Above paragraph 1 insert the following paragraph 0:

Definitions

Passively Safe Lighting Columns' refers to columns compliant with BS
 EN 12767.

Delete paragraphs 2 and 3, and insert the following paragraphs 2 and 3:

Measurement

The measurement of road lighting columns and brackets, wall mountings, CCTV masts and cantilever masts shall be the complete installation except for earth electrodes which shall be measured separately (under Series 1400 paragraphs 24 to 27), replace luminaires which shall be measured separately (under this Series paragraphs 8 to 10) and supply of LED components which will be measured separately (under Series 1400 paragraphs 39 to 43).

Itemisation

Separate items shall be provided for road lighting columns and brackets, wall mountings, CCTV masts and cantilever masts in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature		
I	Passively safe road lighting columns.		
II	1 Not exceeding 10 metres nominal height.		
	2 Exceeding 10m but not exceeding 15m nominal height.		
III	1 Different types of base.		
IV	1 Single bracket.		

Road Lighting
Columns,
Brackets, Wall
Mountings, CCTV
Masts &
Cantilever Masts

In paragraph 4 after (ff) insert the following (gg) to (ii) inclusive:

Item coverage		(gg)	marking and lettering;	
		(hh)	conspicuity banding;	
		(ii)	terminations.	
	After pa	ter paragraph 7 insert the following paragraphs 8 to 10 inclusive:		
	Replace	ace Luminaires		
Units	8	The u	nit of measurement shall be:	
		(i)	replace luminaire with L-CMS equipped LED luminaire	
		numb	er.	
Itemisation	9	Separate items shall be provided for replace luminaires in accordance		
		with C	Chapter II paragraphs 3 and 4 and the following:	
		Group	o Feature	
		I	1 Replace luminaire with L-CMS equipped LED	
			luminaire excluding the invoiced costs of LED	
			components.	
Replace	10	The items for Replace luminaire with L-CMS equipped LED luminaire		
Luminaires		shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:		
Hama aassanana				
Item coverage		(a)	prepare new LED luminaire and components for L-CMS prior to taking on Site for installation complete with carrying out all	
			appropriate pre-installation tests;	
		(b)	modify power supply arrangement as appropriate including	
		()	feeder pillar, remove group control contactor, remove	
			associated photo electronic control unit (PECU) and wiring to	
			ensure continuous power supply to the new assets;	
		(c)	lower and raise high mast carriage and similar mechanisms to	
			allow access to luminaires;	

- (d) take down existing luminaire from column or high mast and remove to licensed facility (as Series 200 paragraph 11);
- (e) install wiring from lighting unit to existing cut-out, adjust protection devices as necessary;
- (f) add glands, conduit including draw wires, screwed and threaded connections, bends, tees and other features to ensure safe installation;
- (g) thread cable through ducts sleeves, conduit and the like as required;
- (h) add fixings, protective caps, sealings grommets, spacers, mountings, plates and strips;
- (i) terminate new wiring and cables rearrange as necessary;
- (j) test and commission to confirm functionality of the L-CMS including correct operation of all components within the new assets for the remote monitoring and control functions through to the L-CMS operators access terminal ensure the identifying codes associated with the new LED luminaires L-CMS are correctly allocated, and that these align with asset location, asset ID through to correct displaying on the operators access terminal and in the Transport Scotland Asset Performance Management System (APMS);
- (k) carry out multiple visits to installation in relation to any aspect of the replaced luminaire to ensure full integration and operations of new LED luminaire complete with L-CMS;
- (I) protective system (as Series 1900 paragraph 4);
- (m) storage and handling of materials.

After paragraph 10 insert the following paragraphs 11 to 14 inclusive:

Conspicuity Banding to Existing Assets

Units

- 11 The units of measurement shall be:
 - (i) conspicuity banding set to existing assetsnumber.

Measurement	12	Where a set of double conspicuity bands is required on an asset, each set will be measured as a single item with a quantity of "1".	
		Conspicuity banding to existing assets shall not be separately measured for road lighting columns measured in accordance with this Series, paragraphs 1 to 4.	
Itemisation	13	Separate items shall be provided for conspicuity banding in	
		accordance with Chapter II paragraphs 3 and 4 and the following:	
		Group Feature	
		I Conspicuity banding to existing asset.	
Conspicuity	14	The item for conspicuity banding to existing assets shall in	
Banding to		accordance with Preambles to Schedule of Rates and Prices General	
existing assets		Directions include for:	
Item coverage		(a) preparing surface (as Series 5000 paragraph 5);	
		(b) removing old banding;	
		(c) making good protective system (as Series 5000 paragraph 6);	
		(d) recording.	

Series 1400: Electrical Work for Road Lighting and Traffic Signs

Locating Buried Road Lighting and Traffic Signs Cables

Delete paragraphs 1 to 3 and insert the following paragraph 1:

Measurement

1 Locating buried road lighting and traffic signs cables shall not be separately measured.

Delete paragraph 5 to 10 and insert the following paragraph 5 to 10:

Trench, Duct and Cable

Units 5 The unit of measurement shall be:

7

(i) trench, duct, cable metre.

Measurement

The supply of duct and cable shall be measured under this Series 1400 paragraphs 39 to 43.

Itemisation

Separate items shall be provided for trench, cable and duct in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature				
T	1 Trench for duct.				
	2 Install Duct.				
	3 Install Cable.				
II	1 Any depth.				
	2 Type.				

Note 1: Group II Feature 1 only applies to Group I Feature 1.

Note 2: Group II Feature 2 only applies to Group I Features 2 and 3.

Trench

The items for trench shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

Item Coverage

(a) excavation of acceptable material (as Series 600 paragraphs17 and 18);

- (b) excavation of unacceptable material (as Series 600 paragraph19);
- (c) excavation in hard material (as Series 600 paragraph 23);
- (d) additional depth of excavation to maintain specified cover at obstructions;
- (e) additional excavation to accommodate extra lengths of cable;
- (f) locating, working around and supporting pipes, cables, services, apparatus and the like;
- (g) trimming, levelling and compacting;
- (h) cable bedding and covering;
- (i) duct bedding, haunching and surrounding;
- (j) formwork (as Series 1700 paragraph 15);
- (k) movement joints to beds, surrounds and the like;
- (I) backfilling and compaction;
- (m) troughing, lids, access points and bedding;
- (n) disposal of material (as Series 600 paragraph 39);
- (o) marking tape or cable covers;
- (p) reinstatement of surfaces;
- (q) site records

Install Duct

9 The items for install duct shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

Item Coverage

- (a) transporting from store, unloading and positioning;
- (b) cutting, laying, jointing and bedding;
- (c) supports to vertical and horizontal ducts;
- (d) strappings and spacers;
- (e) recording, staking and labelling;
- (f) fixing draw ropes, removable stoppers, marker blocks and posts;
- (g) schedules;

10

- (h) lubricants, packing, grouting and caulking;
- (i) surveys and recordings;
- (j) protective system (as MCHW Series 1900 paragraph 4)
- (k) working in trenches.

Install Cable

The items for install cable shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

Item Coverage

- (a) transporting from store, unloading and positioning;
- (b) retermination loop required for connection into a unit, future retermination and tying in;
- unsealing, clearing and swabbing out ducts, drawing cables through, replacing draw ropes, plugging and sealing duct ends and marking;
- (d) intermediate supports and fixing devices where cables leave trench and prior to entry into equipment;
- (e) supports to vertical and horizontal cables;
- (f) sealing to cable ends;
- (g) cutting, tying together, sealing, coiling and strapping of unused
- (h) cores;
- (i) scheduled and unscheduled joints;
- (j) marker blocks, marker tape, identification tags, sleeves and the like;
- (k) twisting and snaking;
- (I) preparation and supply of record drawings;
- (m) service connections and commissioning;
- (n) additional protection and support;
- (o) site records and colour coding.
- (p) terminations (as this Series paragraph 19);
- (q) removal of any existing cable;
- (r) working in trenches.

Cable Joints and Terminations

Delete paragraphs 16 to 18 and insert the following paragraph 16:

Measurement

16 Cable joints and terminations shall not be separately measured.

Feeder Pillars

Delete paragraphs 20 to 23 and insert the following paragraphs:

Units

- 5 The unit of measurement shall be:
 - (i) feeder pillars.....number

Measurement

The supply of feeder pillars shall be measured under this Series 1400 paragraphs 39 to 43.

Where new concrete bases are required for equipment they shall be measured under Series 1200 concrete bases.

Itemisation

Separate items shall be provided for feeder pillars in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
1	Install different types of feeder pillar.

Install feeder pillar

44

The items for install feeder pillar shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

Item coverage

- (a) prepare new equipment prior to taking on site for installation complete with carrying out all appropriate pre-installation tests;
- (b) transporting from store, unloading, and positioning;
- (c) modify power supply arrangement as appropriate to ensure continuous power supply to the new assets;
- (d) add glands, conduit including draw wires, screwed and threaded connections, bends, tees and other features to ensure safe installation;

- (e) thread cable through ducts sleeves, conduit and the like as required;
- (f) rearrange new wiring and cables as necessary;
- (g) test and commission to confirm functionality of the equipment including correct operation of all components;
- (h) protective system (as Series 1900 paragraph 4);
- (i) storage and handling of materials;
- removing knock-outs, drilling or forming holes and pockets and casting in bars, sockets, base plates, plinths, anchorage assemblies, posts and the like including grouting;
- (k) adhesives and epoxy or polyester mortar, filling, bedding and sealing;
- (I) backboards, fixings, protective caps, sealing, grommets, spacers, bushes, mounting plates and neoprene strips;
- (m) complying with wiring regulations and earthing (other than earth electrodes);
- (n) conduit including screwed and threaded connections, bends, tees and the like and draw wires;
- (o) electrical equipment, batteries, colour coding, wiring and making connections, excluding electricity supplier's connections;
- (p) threading cable through ducts, sleeves, conduits and the like;
- (q) doors, locks and keys;
- (r) notices, labelling, numbering and lettering;
- (s) cleaners, solvents and desiccants;
- (t) preparation and supply of record drawings;
- (u) additional protection and support;
- (v) service connections and commissioning;
- (w) electricity supply until handover.

38

Permanent Disconnection of Cables

After paragraph 35 add the following paragraphs 36 to 38 inclusive:

- Units 36 The unit of measurement shall be:
 - (i) permanent disconnection of cables number.
- Itemisation 37 Separate items shall be provided for cable and duct in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature				
I	1 Permanent disconnection of cables.				
II	1 Different types.				

Permanent Disconnection of Cables

The items for permanent disconnection of cables shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

- (a) disposal of materials (as Series 600 paragraph 39);
- (b) locating, working around and supporting pipes, cables, services, apparatus and other similar feature;
- (c) isolating cables at feeder pillar;
- (d) disconnecting cables from termination unit and withdrawing of cable from equipment;
- (e) temporary sealing of cable ends;
- (f) permanent sealing of cable ends;
- (g) cleaning trimming, taping, sealing and capping including clamps;
- (h) complying with wiring regulations;
- (i) reconnect at feeder pillar;
- (j) loading, transporting from store unloading and positioning of materials for erection;
- (k) replacing items damaged during operations;
- (I) providing new Site Records and updating existing Site Records;

- (m) reports;
- (n) reinstatement of surfaces.

After paragraph 38 add the following paragraphs 39 to 43 inclusive:

Electrical Components and Materials

Definitions

- 39 Electrical components and materials includes
 - (i) LED components for columns and traffic signs, luminaires, array, DALI compatible and enabled driver;
 - (ii) Duct;
 - (iii) Cables;
 - (iv) Feeder Pillars.

Units

- 40 The units of measurement shall be:
 - (i) invoiced costs of electrical components and materials...... sum.

Measurement

The measurement of invoiced costs of electrical components and material shall be the cost of the supply, storage and delivery of component and materials.

A percentage adjustment to the invoiced cost of electrical components and materials shall also be measured and the applicable adjustment item shall be deemed to be Item 650003002 Percentage adjustment to be applied to the Basic cost of materials in accordance with Section 2 – Materials of Schedule of Dayworks Carried Out Incidental to Contract Work,

The percentage adjustment shall include for:

- (a) ordering and taking delivery;
- (b) unloading, storing and protecting;
- (c) double handling;
- (d) waste;
- (e) discounts;

43

- (f) establishment charges;
- (g) delivery within or related to the unit;
- (h) all other charges and costs, overheads and profit not recovered in electrical components and materials.

Itemisation 42 Separate items shall be provided for electrical components and materials in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
ı	1 Electrical components and materials.

Electrical Components and Materials

The items for electrical components and materials shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

Item coverage

(a) all costs of components delivered to the Unit.

Series 1500: Motorway Communications

29

Locating Buried Communications Cable

Delete paragraphs 1 to 3 and insert the following paragraph 1:

Measurement

1 Locating buried communications cable shall not be separately measured.

Loop Detector Installations

Delete paragraph 29 and insert the following paragraph 29:

Measurement

The measurement of loop detector installations shall be the complete installation from the joint with the feeder cable in the communications cabinet, chamber, box or pit within which the loop installation or feeder cable is terminated.

Loop Detector

31 In paragraph 31 after (q) insert the following (r):

Installations Item coverage

(r) joints or terminations to feeder cable within communications cabinet, chamber, box or pit.

Series 1700: Structural Concrete

After paragraph 39 insert the following paragraphs 40 to 43 inclusive:

	Struct	Structural Concrete Repairs		
Units	40	The	units of measurement shall be:	
		(i)	structural concrete repairs using flowed concrete cubic metre,	
		(ii)	structural concrete repairs using sprayed concrete cubic metre,	
		(iii)	structural concrete repairs using proprietary repair mortars litre.	
Measurement	41		easurement of structural concrete repairs shall be the volume of the d to be filled with repair mortar resin or concrete.	
			easurement of flowed concrete and sprayed concrete shall be to the arest 0.1m³.	
Itemisation	42		parate items shall be provided for structural concrete repairs in cordance with Chapter II paragraphs 3 and 4 and the following:	
		Gr	oup Feature	
		1	1 Structural concrete repairs.	
		II	1 Flowed concrete.	
			2 Sprayed concrete.	
			3 Proprietary repair mortars.	
Structural	43		e items for structural concrete repairs shall in accordance with the	
Concrete Repairs			eambles to Schedule of Rates and Prices General Directions lude for:	

Item coverage

(a) saw cutting;

- (b) removal of defective concrete including hydrodemolition as Series 2000 paragraph 17;
- (c) breaking out of sound concrete;

- (d) disposal of material (as Series 600 paragraph 39);
- (e) surface preparation; mechanical or by hand;
- (f) protective sheeting or shielding against debris and or spray and its removal;
- (g) blast cleaning reinforcement;
- (h) preparation of concrete surfaces to receive concrete repair materials including protecting untreated areas;
- (i) concrete repair materials (as Series 1700 paragraph 5) including sealants, priming and bonding agents;
- (j) finishing;
- (k) formwork;
- mixing, placing in or against any surface, curing and protection of concrete repair materials;
- (m) falls, cambers and shaped profiles;
- (n) procedure trials;
- (o) sample panels;
- (p) masking adjacent areas;
- (q) removal of rust and chloride deposits from reinforcement;
- (r) production tests;
- (s) water supply;
- (t) sacrificial galvanic anodes.

Series 2000: Waterproofing for Structures

	Above pa	aragraph 1 insert the following paragraph 0:
Measurement General	0	Waterproofing and removal of waterproofing are not to be separately measured when existing waterproofing is being replaced.
	Replace	ment of Existing Waterproofing
		After paragraph 12 insert the following paragraphs 13 to 17 inclusive:
Units	13	The units of measurement shall be:
		(i) Replacement of existing waterproofing with proprietary sprayed waterproofing systemsquare metre,
		(ii) hydrodemolition on bridge deckscubic metre.
Measurement	14	Measurement of hydrodemolition on bridge decks shall be the volume of existing concrete removed by high pressure water jetting.
Itemisation	15	Separate items shall be provided for replace existing waterproofing and hydrodemolition in accordance with Chapter II paragraphs 3 and 4 and the following:
	-	Group Feature
	-	I Replace existing waterproofing with proprietary sprayed waterproofing system.
		2 Hydrodemolition on bridge decks.
Replace Existing Waterproofing	16	The items for replace existing waterproofing shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) waterproofing (as this Series paragraph 4);
		(b) removal of waterproofing (as this Series paragraph 12);
		(c) visual inspection of deck;
		(d) delamination survey;

(e) grit blasting.

Hydrodemolition 17 The items for hydrodemolition on bridge decks shall in accordance

with the Preambles to Schedule of Rates and Prices General

Directions include for:

Item coverage

- (a) marking out the areas of concrete removed;
- (b) removal of concrete;
- (c) removal of corroded steel;
- (d) disposal of materials (as Series 600 paragraph 39);
- (e) making good edges of repair;
- (f) Safety Screening of hydrodemolition works to protect members of workforce and public;
- (g) measures to prevent damage to existing surfaces;
- (h) trials and approval tests.

Series 2300: Bridge Expansion Joints and Sealing of Gaps

Bridge Deck Expansion Joints

After paragraph 1 insert the following paragraph 1A:

Definition	1A	Туре	Abbreviation	Description
		1	BJUCS	Buried joint under continuous surfacing.
		2	APJ	Asphaltic plug joint.
		3	EIMR	Elastomeric in metal runners.

Delete paragraph 2 to 4 and insert the following paragraphs 2 to 4 inclusive:

Units

- 2 The units of measurement shall be:
 - (i) remove existing joint and replace with bridge deck expansion joints excluding type APJ linear metre
 - (ii) remove existing joint and replace with bridge deck expansion joints type APJ cubic metre

Measurement

- The measurement of bridge deck expansion joints measured as linear metres shall be the complete installation measured along the centreline of the joint.
- The measurement of bridge deck expansion joints type APJ shall be measured to the nearest 0.1m³.

Itemisation

4

Separate items shall be provided for remove existing joint and replace with bridge expansion joints in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature			
I	Remove existing joint and replace with bridge deck expansion joints.			
II	1 Different types.			
III	1 Different movement ranges.			

Bridge Deck 5 In paragraph 5 insert after (p) the following (q) to (v): **Expansion Joints**

Item coverage

- removing existing bridge expansion joints including sealants, metalwork and joint filler, sub-surface drainage, below joint drainage and in-situ nosings;
- (r) cutting out and making good existing pavements, footways, kerbs, Structures and the like;
- (s) making good any damage caused by the foregoing operations;
- (t) disposal of material (as Series 600 paragraph 39);
- (u) removal and renewal of broken studs;
- (v) additional bedding and nosing material.

Series 3000: Landscape and Ecology

	Ground	d Preparation and Cultivation		
		Delete paragraph 1 and insert the following paragraph 1:		
Definition	1	Landscape and ecology work in this Series shall comprise new work and maintenance of existing areas that are not covered by items in Series 6100.		
		After paragraph 3 insert the following paragraph 3A:		
Measurement	3A	Vegetation clearance shall include for Site clearance.		
		Delete paragraph 4 and insert the following paragraph 4:		
Itemisation	4	Separate items shall be provided for ground preparation and cultivation in accordance with Chapter II paragraphs 3 and 4 and the following:		
	•	Group Feature		
		I Vegetation clearance over 25% of cover, arisings chipped on Site.		
Ground preparation and cultivation	5	In paragraph 5 after (j) insert the following (k) to (w) inclusive:		
Item coverage		(k) demolition, breaking up and removal;		
ū		(I) removing undergrowth, felling trees or saplings not exceeding 100mm diameter (as recorded at a height of 1m above ground level) and grubbing up stumps;		
		(m) removing hedges, fencing and wires;		
		(n) credit value of materials;		
		(o) working around services;		
		(p) backfilling and compaction;		
		(q) making good to severed ends of existing fences, hedges and walls;		
		(r) disconnecting and sealing services;		
		(s) preservation of individual or groups of trees, shrubs, hedges and other features;		

- (t) reinstatement and making good;
- filling post and stump holes with acceptable material from any (u) source and compaction;
- mechanical chipping of felled trees and saplings and spreading (v) up to 25mm thick;
- treatment of hazardous materials. (w)

Maintenance of Established Trees and Shrubs

After paragraph 22 insert the following paragraph 22A:

22A Measurement The girth of trees for felling shall be measured at a height of 1 metre above ground level. To be classed as a tree, vegetation must have a stem diameter of more than 100 mm.

Delete paragraph 23 and insert the following paragraph 23:

Itemisation 23 Separate items shall be provided for maintenance of established trees and shrubs in accordance with Chapter II paragraphs 3 and 4 and the following:

-			
Group	Feature		
I	1 Thinning or coppicing percentage, any species and		
	spreading arisings on site.		
	2 Tree felling.		
II	1 Different categories.		

Note 1: Group II Feature 1 only applies to Group I Feature 2.

Thinning and	25	In paragraph 25 after (g) insert the following (h):
Coppicing		
Item coverage		(h) spreading of arisings on Site.
Tree Felling	30	In paragraph 30 after (k) insert the following (I):
Item coverage		(I) sectional felling.

Series 3300: Site Investigation

	Determed	Davis and Englating Davis mont		
	Rotary	Coring of Existing Pavement		
Units	1	The unit of measurement shall be:		
		(i) rotary coring of existing pavement number.		
Measurement	2	The measurement of rotary coring of existing pavement shall be for		
		the complete operation and the depth of core shall be taken as the		
		overall length of the extracted core.		
Itemisation	3	Separate items shall be provided for rotary coring of existing		
		pavement in accordance with Chapter II paragraphs 3 and 4 and the		
		following:		
	-	Group Feature		
	-	I Rotary coring of existing pavement depth of core not		
		exceeding 400mm.		
	•	II 1 Not exceeding 150mm diameter.		
Rotary Coring of	4	The items for rotary coring of existing pavement shall in accordance		
Existing		with the Preambles to Schedule of Rates and Prices General		
Pavement		Directions include for:		
Item coverage		(a) Programming and setting out		
		(b) cutting and extracting sample,		
		(c) labelling, packaging and delivery to the Operating Company's		
		store, (d) visual examination of cores		
		(e) recording data, analysing, interpreting and reporting,		
		(f) supplying the Overseeing Organisation with copies of the data		
		and reports,		
		(g) protecting and storing samples,		
		(h) removing all loose or superfluous material,		
		(i) disposal of material (as Series 600 paragraph 39),		
		(j) reinstatement of paved area (as Series 700 paragraph 36).		

Structural Investigations

Units	5	The unit of measurement shall be:
		(i) half cell potential survey, square metre,
		(ii) soluble chloride test number.
Itemisation	6	Separate items shall be provided for structural Investigations in
nomication	Ü	accordance with Chapter II paragraphs 3 and 4 and the following:
		Group Features
		<u> </u>
		I 1 Surveys.
		2 Tests.
Structural	7	The items for structural Investigations shall in accordance with the
Investigations		Preambles to Schedule of Rates and Prices General Directions
		include for:
Item coverage		(a) obtaining samples;
		(b) protecting and storing samples;
		(c) labelling, packaging and delivery of samples to the laboratory;
		(d) testing at an accredited laboratory;
		(e) recording data analysing interpreting and reporting;
		(f) supplying the Overseeing Organisation with advance copies of
		the results;
		(g) supplying the Overseeing Organisation with copies of the data
		and reports;
		(h) disposal of material (as Series 600 paragraph 39);
		(i) reinstatement.
	Falling	Weight Deflectometer Tests
`Units	8	The unit of measurement shall be:
		(i) falling weight deflectometer test km.
Measurement	9	The measurement of falling weight deflectometer tests shall be the
		length of Lane tested.
Itemisation	10	Separate items shall be provided for falling weight deflectometer in
		accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 Tests.
The items	s for falling weight deflectometer tests shall in accordance

Falling Weight Deflectometer Tests

The items for falling weight deflectometer tests shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

Item coverage

- (a) temperature measurements;
- (b) including repairs to pavement;
- (c) recording required data analysing interpretation and supplying the Overseeing Organisation with a copy of the data and reports.

Dynamic Cone Penetrometer Tests

`Units 12 The unit of measurement shall be:

(i) dynamic cone penetrometer testing of unbound carriageway sub-base, capping layer, subgrade and verges number.

Measurement

The measurement of dynamic cone penetrometer tests of unbound carriageway sub-base, capping layer, subgrade and verges shall be for the complete operation.

Itemisation

14 Item shall be provided for dynamic cone penetrometer tests of unbound carriageway sub-base, capping layer, subgrade and verges in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 Tests.

Dynamic cone
penetrometer
testing of
unbound
carriageway subbase, capping

15

The items for dynamic cone penetrometer tests of unbound carriageway sub-base, capping layer, subgrade and verges shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

layer, subgrade and verges.

Item coverage

- (a) drilling or coring;
- (b) repeating failed tests;
- (c) recording data, analysing, interpreting and reporting;
- (d) supplying the Overseeing Organisation with copies of the data and reports;
- (e) disposal of material (as Series 600 paragraph 39);
- (f) reinstatement.

1

4

Series 6100: Core Operations

Core Operations

Definitions

- Except for mobilisation, which is to be paid in accordance with Series 100, the Core Operations to be provided under this Contract shall be measured in accordance with this Series.
- Any Operations that are additional to Core Operations will be subject to an Order and shall be measured in accordance with the appropriate Series in this Schedule of Rates and Prices.

Units

- The units of measurement shall be:
 - (i) individual Core Operationsmonth,
 - (ii) Winter Severity Adjustmentsum,
 - (iii) initial Inventory validation, collection & updatingitem.

Measurement

- Item 610001008 Schedule 2 Scope, Section 6 Network Operations Winter Service will be subject to a Winter Severity Adjustment for either a Mild Winter or Severe Winter as follows:
- (a) The severity adjustment will be made on the basis of actual salt usage and calculated post winter period.
- (b) To be categorised as a Severe Winter salt usage for the Winter Service Period must exceed: 30,000 tonnes.
- (c) To be categorised as a Mild winter salt usage for the Winter Service Period must not exceed: 10,000 tonnes.
- (d) Payment adjustment will be on the basis of a pro rata calculation derived from the Core Operation item 610001009 Schedule 2 – Scope, - Section 6 Network Operations – Winter Service.
- (e) In the event of a Severe Winter the adjustment will include for all associated costs and will result in further payment to the Operating Company. The maximum additional payment will be capped at £350,000 for a single Winter Service Period.
- (f) Conversely, in the event of a Mild Winter, a credit will be due to the Scottish Ministers. Any credit would be capped at 10% of Item 610001009.

(g) An example Severe Winter calculation is as follows:

Example Winter monthly sum = £200,000

Example Winter salt usage = 32,000 tonnes

Severe Winter threshold 30,000 tonnes

Calculation =

(32,000-30,000 t) / 30,000 = 6.67%

£200,000 x 6.67% = £13,340

£13,340.00 x 12 months = £160.080

The Operating Company would be due £160,080 in additional costs for the Severe Winter

(h) An example Mild Winter calculation is as follows:

Example Winter monthly sum = £200,000

Example Winter salt usage =8,500 tonnes

Mild Winter threshold = 10,000 tonnes

Calculation =

10,000-8,500 t) / 10,000 = 15%

£200,000 x 15% = £30,000

£30,000 x 12 months = £360,000

Credit capped at 10% of annual value =

£200,000 x 12 = £2,400,000 x 10%

=£240,000

The Scottish Ministers would be due a £240,000 credit for the Mild Winter.

Following Commencement of Service, the Operating Company may include in its Application for Payment the total amount eligible for Winter Service up to March 2023.

Example: Winter monthly sum = £200,000

Commencement of Service Date = 27 July 2022

July 2022 = 5 days/31 days x £200,000; August 2022 to March 2023 = 8 months x £200,000

Total amount eligible in July 2022 Application for Payment for =£200,000 x (5/31) + 8 x £200,000=£1, 632,258.06

5a Item 610001002 for initial Inventory validation, collection and updating, may be measured as a percentage of the item value commensurate with activity completion.

> Payment for any initial Inventory validation activity considered to be in excess of the maximum eligible rate of £800,000 for item 610001002 shall be deemed included in the rates of other Core Operations items.

Itemisation 6 Separate items shall be provided for management, inspection and maintenance operations in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	1 Schedule and Section number.
	2 Winter Severity Adjustment.
II	1 Different management, inspection and maintenance
	Operations.

Note: Group II does not apply to Group 1 Feature 2.

Introduction 7 The items for introduction shall in accordance with the Preambles to the

Schedule of Rates and Prices General Directions include for:

compliance with Schedule 2 – Scope, Section 1 – Introduction excluding Section 1.5 in respect of initial Inventory validation, collection & updating.

The item for initial Inventory validation & collection shall in accordance

with the Preambles to the Schedule of Rates and Prices General

Directions include for:

Initial Inventory 8 Validation,

Collection &

Updating

Item coverage

Item coverage

compliance with Schedule 2 - Scope, Section 1.5 - in respect of (a)

initial Inventory validation, collection & updating.

Defects, Hazard Notices & Observations Resulting from Inspections	9	Insped	tems for Defects, Hazard Notices & Observations Resulting from ctions shall in accordance with the Preambles to the Schedule of and Prices General Directions include for:
Item coverage		(a)	compliance with Schedule 2 – Scope, Section 2 – Defects, Hazard Notices & observations resulting from inspections.
Inspection and maintenance – Roads Including Landscape	10	landso	tems for the inspection and maintenance - roads including cape shall in accordance with the Preambles to the Schedule of and Prices General Directions include for:
Item coverage		` ,	compliance with Schedule 2 – Scope, Section 3 – Inspection and maintenance – Roads incl. Landscape
Inspection and Maintenance - Structures	11	accord	ems for the inspection and maintenance - Structures shall in dance with the Preambles to the Schedule of Rates and Prices ral Directions include for:
Item coverage		, ,	compliance with Schedule 2 – Scope, Section 4 – Inspection and maintenance – Structures excluding Subsections 4.13 Substandard Structures & Structures with known Defects and 4.14 Structures with Particular Requirements.
Sub standard Structures & structures with known Defects	12	shall i	ems for Sub-standard Structures & Structures with known Defects n accordance with the Preambles to the Schedule of Rates and General Directions include for:
Item coverage		(a)	compliance with Schedule 2 – Scope, Section 4 – Inspection and Maintenance – Structures in respect of Subsection 4.13 Sub standard Structures & Structures with known Defects
Structures with Particular Requirements	13	accord	ems for Structures with Particular Requirements shall in dance with the Preambles to the Schedule of Rates and Prices ral Directions include for:
Item coverage		(a)	compliance with Schedule 2 – Scope, Section 4 – Inspection and Maintenance – Structures in respect of Subsection 4.14 Structures with Particular Requirements.

Network Operations - Traffic Scotland	14	The items for Network Operations - Traffic Scotland shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 2 – Scope, Section 5 – Network Operations – Traffic Scotland.
Network Operations – Winter Service	15	The items for Network Operations – Winter Service shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 2 – Scope, - Section 6 – Network Operations – Winter Service.
Winter Severity Adjustment	16	The items for Winter Severity Adjustment shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) all costs or credits associated with a Severe Winter or Mild Winter as defined in paragraph 5 of this Series 6100.
Network Operations - Disruption Risk Management	17	The items for Network Operations – disruption risk management shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 2 – Scope, Section 7 – Network Operations – Disruption Risk Management
Design, Construction and Certification of Operations	18	The items for Design, construction and certification of Operations shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 2 – Scope, Section 8 – Design,Construction and Certification of Operations.
Abnormal Loads	19	The items for abnormal loads shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with Schedule 2 – Scope, Section 9 – Abnormal loads.

Safety & Developments – Developments	20	The items for safety & developments – developments shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for:	
Item coverage		(a) compliance with Schedule 2 – Scope, Section 10 – Safety & developments – Developments.	
Safety & Developments - Road Safety Programme	21	The items for safety & developments - road safety programme shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for:	
Item coverage		(a) compliance with Schedule 2 – Scope, Section 11 – Safety & developments - Road Safety Programme.	
Signs Requiring Authorisation	22	The items for signs requiring authorisation shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for:	
Item coverage		(a) compliance with Schedule 2 – Scope, Section 12– Signs requiring authorisation.	
Introduction	23	The items for introduction shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for:	
Item coverage		(a) compliance with Schedule 3 – Contract Management, Section 1 – Introduction.	
Key People	24	The items for key people shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for:	
Item coverage		(a) compliance with Schedule 3 – Contract Management, Section 2 – Key people.	
Offices, Depots & Other Infrastructure	25	The items for offices, depots & other infrastructure shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for:	
Item coverage		(a) compliance with Schedule 3 – Contract Management, Section 3 – Offices, depots & other infrastructure.	
Systems, Plans and Records	26	The items for systems, plans and Records shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for:	

Item coverage		(a)	compliance with Schedule 3 – Contract Management, Section 4 – Systems, plans and Records.
Stakeholder and Customer Engagement	27	acco	items for stakeholder and customer engagement shall in ordance with the Preambles to the Schedule of Rates and Prices eral Directions include for:
Item coverage		(a)	compliance with Schedule 3 – Contract Management, Section 5 – Stakeholder and Customer Engagement
Disclosure of information	28		items for disclosure of information shall in accordance with the imbles to Schedule of Rates and Prices General Directions include
Item coverage		(a)	compliance with Schedule 3 – Contract Management, Section 6 - Disclosure of information
Control of Core & Ordered Operations	29	acco	items for control of Core and Ordered Operations shall in ordance with the Preambles to Schedule of Rates and Prices eral Directions include for:
Item coverage		(a)	compliance with Schedule 3 – Contract Management, Section 7 – Control of Core & Ordered Operations.
Procurement & Management of Schemes	30	acco	items for procurement & management of Schemes shall in ordance with the Preambles to Schedule of Rates and Prices eral Directions include for:
Item coverage		(a)	compliance with Schedule 3 – Contract Management, Section 8 – Procurement & management of Schemes
Measuring Performance	31		items for measuring performance shall in accordance with the imbles to Schedule of Rates and Prices General Directions include
Item coverage		(a)	compliance with Schedule 3 – Contract Management, Section 9 – Measuring performance.

Series 6200: Professional Services

	Professi	onal Services
Definitions	1	Job titles are defined in Schedule 5 Appendix 62/1 –
		Requirements for Professional Services.
Units	2	The units of measurement shall be:
		(i) Job title hour.
Measurement	3	Professional Services for Operations that are not covered under Core Operations rates shall apply for Scheme Investigations.
		Professional Services for Operations that are not covered under Core Operations rates shall apply for Design carried out within the following Work Codes:
		0101 - Reconstruction
		0102 - Structural Inlay (>80mm) or Overlay (>50mm)
		0103 - Resurfacing (non-structural inlay/overlay)
		0104 - Surface Treatment
		0303 - Maintenance of footways and cycle tracks
		0316 - New footways and cycle tracks
		0315 - Road lighting and electrical work
		0321 - Equality Act Barriers
		0322 – Adaptation programme
		1201 - Bridges and culverts 2 metres and over, retaining wall over 1.5 metres and other Structures
		1202 - Bridge strengthening
		1203 - Major bridges
		1205 - Protective coatings to steel Structures
		1206 - Structural assessment
		1207 - Special investigations

0313 - Landscape and planting

0801 - Individual Strategic Road Safety Schemes

0802 - Active Travel

0901 - Individual Improvement Schemes

0902 - Adaptation works

9806 - Payment for damage repair more than £50,000.

Professional Services for Design carried out within Work Codes other than those stated above and that are not covered by Core Operations shall be measured in accordance with Series 6300 – Fee Percentages for Design, Procurement and Management.

Professional Services for other Operations shall only be measured using this Series where subject to an Order stating that Professional Services are to be used.

The measurement of work at professional services rates shall be based on certified timesheet records. Travel time shall be paid for travel from the Central Office or a sub office within the Unit to the location where the services are being undertaken whichever is the lesser.

Itemisation

4

Separate items shall be provided for professional services rates in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
Ī	1 Job title.

Professional Services

5

The items for professional services rates shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

Item coverage

- (a) basic time and overtime worked,
- (b) non-productive overtime payments,
- (c) bonuses and incentive payments,
- (d) National Insurance,
- (e) holidays with pay,
- (f) sickness benefits,

- (g) pension and life insurance benefits,
- (h) travel and subsistence,
- (i) car and car allowance,
- (j) office accommodation, equipment and supplies,
- (k) administration (including managerial, supervisory, clerical, administrative and accountancy staff),
- (I) any tax, charge, levy impost or payment of any kind which the Operating Company shall be obliged to pay by law to make on behalf of persons employed by the Operating Company,
- (m) appropriate computers and general office applications and software,
- (n) printing, binding, photocopying and similar administrative tasks,
- (o) preparation, updating and submission to the Director of registers of staff, curricula vitae and other details,
- (p) all other costs and all charges whatsoever associated with the employment of any such professional.

Series 6300: Fee Percentages for Design, Procurement and Management

Generally

Definitions

- 1 The following definitions shall apply to this Series of this Schedule:
 - (i) "Roadworks" means Schemes other than Bridgeworks Schemes.
 - (ii) "Bridgeworks" means Schemes in which work on Structures has a content of 40% or more of the Estimated Construction Value.
 - (iii) "Cost" means the Estimated Construction Value of the Scheme as stated in the approved Statement of Intent, excluding any bonus adjustments or other charges related to lane rental Works Contracts.

Fee Percentages for Design of Schemes to be Constructed by the Operating Company

Units

- 2 The unit of measurement shall be:
 - (i) fees for Design of Schemes to be constructed by the Operating Company where the Estimated Construction Value exceeds £50,000...... percentage.

Measurement

- Fee percentages shall be used for the Design of Schemes that are to be constructed by the Operating Company and:
 - (i) which do not fall within the Work Codes outlined in Series6200 paragraph 3 and;
 - (ii) the Estimated Construction Value as stated within the approved Statement of Intent is greater than £50,000.
- Fee percentages for Design shall be measured against the Estimated Construction Value as stated within the approved Statement of Intent and not the final outturn construction costs
- The quantity to be measured shall reflect the proportion of Design completed in respect of the Estimated Construction Value.

Itemisation

6 Separate items shall be provided for fees for the Design of Schemes to be constructed by the Operating Company where the Estimated

7

Construction Value exceeds £50,000 in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature				
Ι	Design of Roadworks Schemes to be constructed by the Operating Company.				
	2 Design of Bridgeworks Schemes to be constructed by the Operating Company.				

Fees for Design of Schemes to be Constructed by the Operating Company

The items for fees for Design of Schemes to be constructed by the Operating Company where the Estimated Construction Value exceeds £50,000 shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

Item coverage

(a) compliance with Schedule 2 – Scope, Section 8 – Design,
 Construct and Certification of Operations..

Fee Percentages for Design, Procurement and Management of Works Contracts

Units	8	The unit of measurement shall be:
		(i) fees for Design, procurement and management of Works Contracts percentage.
Measurement	9	Rates for procurement and management of Works Contacts shall also apply to work on the Unit undertaken by others that the Scottish Ministers require the Operating Company to procure and or supervise.
	10	Fee percentages for Design, procurement and management of Works Contacts shall be measured against the Estimated Construction Value as stated within the approved Statement of Intent and not the final outturn construction costs.
	11	The quantities to be measured shall reflect the proportions of Design, procurement or management completed in respect of the Estimated

Construction Value.

The percentage entered against the first Cost band shall be used to measure the element of Cost of a Works Contract below £1,000,000, (roads) or £1,500,000 (bridges).

The percentages entered against subsequent Cost bands shall be applied in the same manner to the stated element of Cost.

There is a limit to the maximum valuation for fees:

- (i) Procurement: maximum total valuation = £500,000
- (ii) Management: maximum total valuation = £1,000,000

If a Scheme value would cause the total valuation to be more than these limits the Operating Company is deemed to agree that the valuation up to limit will cover all obligations nevertheless without any additional payment.

Itemisation

Separate items shall be provided for the Design, procurement and management of Works Contracts in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature		
I	1 Design.		
	2 Procurement.		
	3 Management.		
II	1 Roadworks Works Contracts.		
	2 Bridgeworks Works Contracts .		
III	1 Different Cost elements.		

Note: Group II Feature 2 shall not apply to Group I Feature 1.

Fees for Design of Works Contracts

14

The items for the fees for Design of Works Contracts shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

Item coverage

(a) compliance with Schedule 2 – Scope, Section 8 – Design,
 Construct and Certification of Operations in respect of Design for Works Contracts..

Fees for Procurement of Works Contracts	15	The items for the fees for procurement of Works Contracts shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		 (a) compliance with Schedule 3 – Contract Management, Section 8 Procurement & management of Schemes in respect of procurement and award of Works Contracts.
Fees for Management of Works Contracts	16	The items for fees for management of Works Contracts shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) compliance with paragraphs Schedule 3 – Contract Management, Section 8 Procurement & management of Schemes in respect of management of Works Contracts.

Series 6400: Adjustment to Schedule of Rates and Prices

	Working	outwith Normal Working Hours
Units	1	The unit of measurement shall be:
		(i) percentage adjustment to value of Operations executed outwith Normal Working Hours percentage.
Measurement	2	Operations executed outwith Normal Working Hours shall not be subject to percentage adjustment unless the Director has given prior written consent.
		Time Band adjustment covers primarily any additional labour, management and other costs associated with working out of hours. Consequently, it will not be measured against any material purchases.
	3	The percentage shall be applied to the measured value of the approved Operations executed outwith Normal Working Hours.
Itemisation	4	Separate items shall be provided for Percentage adjustment to value of Operations executed outwith Normal Working hours in accordance with Chapter II paragraphs 3 and 4 and the following: Group Feature I 1 Percentage adjustment to value of Operations executed outwith Normal Working Hours.
Adjustment for working outwith Normal Working Hours	5	The percentage adjustment to the Schedule of Rates and Prices inserted in the items for working outwith Normal Working Hours shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:
Item coverage		(a) all additional costs.

Series 6500: Time Work Schedule

Time Work Schedule

Definition

1 The term 'Sub-contractors' used in this Series shall include "Labour only" sub-contractors.

Sub-contractors labour, plant and materials shall be included in the Applications for Payment submitted by the Operating Company and shall be paid at the rates and prices contained herein as though they are directly employed by the Operating Company in accordance with this Series. No adjustment or allowance shall be applied in respect of labour, plant and materials supplied by sub-contractors.

Unless otherwise ordered by the Overseeing Organisation, Series 6500: Time Work Schedule items shall not be measured where there are appropriate items in Series 100 to 6400 and Series 6700 to 6800 of this Schedule, or where similar items exist from which a rate can be deduced in accordance with Clause 5.2.1 (c) of Schedule 1 – Conditions of Contract, Clause 5 – Payments.

Labour

2 Trades and activities to be carried out by the labour type as detailed under this Series shall be as Table 1 below.

Table 1

Labour Type	Trades and Activities Applicable (inclusive of sub-contractors).		
Ganger	Working foreman, covering all trades.		
Driver/machine operator	Heavy goods vehicle driver, machine/plant operator.		
Skilled operative	Surfacing operative, traffic management operative, fencing operative, footway and kerb laying operative, drainage operative, scaffolder, reinforcement bar fixer, steelwork erectors/fabricator, mechanic/fitter, welder, painter, rigger, landscape operative and other skilled operative.		
Craftsman	Bricklayer, painter, decorator, carpenter, joiner, plumber and other craftsman.		
Electrician	Traffic signals, road lighting and communications engineer.		
General Operative	Labourer, watchman, banksman, handyman, light duty driver and other general or unskilled operative.		

Units	3	The units of measurement shall be:		
		(i) ganger, driver/machine operator, skilled operative, craftsman, electrical engineer, general operativehour.		
		(i) percentage adjustment to value of labour Operations executed outwith Normal Working Hours percentage.		
Measurement	4	The measurement of ganger, driver/machine operator, skilled operative, craftsman, electrical engineer and general operative shall be the actual hours spent on work on the Site when Operations are subject to an Order.		
		Percentage adjustment shall be applied to the measured value of approved labour Operations executed outwith Normal Working Hours.		
Itemisation	5	Separate items shall be provided for Labour in accordance with		
		Chapter II paragraphs 3 and 4 and the following:		
	•	Group Feature		
		I Driver/machine operator, skilled operative, craftsman.		

6

Labour

Item coverage

	2 Electrician.					
	3 General operative.					
	4 Percentage adjustment to value of labour Operations					
	executed outwith Normal Working Hours.					
II	1 During Normal Working Hours.					
Note	Group II Feature 1 does not apply to Group I Feature 4.					
The	ms for Labour shall in accordance with the Preambles to					
Sche	lle of Rates and Prices General Directions include for:					
(a)	pasic cost of labour for workmen;					
(b)	olus rates for skill;					
(c)	all other amounts of every kind paid in accordance with the					
	rules of the appropriate wage fixing body;					
(d)	non-productive overtime and associated costs;					
(e)	all bonuses, payments and incentives in excess of the basic cost of labour;					
(f)	national insurance and surcharges,					
(g)	normal contract work, third party and employers liability					
	nsurances;					
(h)	annual and public holidays with pay and benefit scheme;					
(i)	non-contributory sick pay scheme;					
(j)	ndustrial training levy;					
(k)	redundancy payments;					
(I)	the Employment Rights Act 1996;					
(m)	Site supervision and staff including foremen and walking					
	gangers;					
(n)	small tools, appliances and plant not provided for in paragraphs					

111 Schedule 4

7, 8 and 9 of this Series;

protective clothing;

(o)

- (p) transport within or related to the Unit;
- (q) welfare facilities;
- (r) establishment charges, overheads and profit;
- (s) preparation, updating and submission to the Director of registers of staff, curricula vitae;
- (t) travelling time to from within or related to the Unit;
- (u) pension and life insurance benefits;
- (v) cars, other vehicles, and car and other vehicle allowances;
- (w) running and maintenance costs of cars and other vehicles.

Adjustment for labour Operations outwith Normal Working Hours

7

The percentage adjustment to the Schedule of Rates and Prices inserted in the items for labour Operations outwith Normal Working Hours shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

Item coverage

(a) all additional costs.

Plant

8

Definitions

Basic cost of plant and percentage adjustment:

(i) the basic cost of plant shall be charged at the hire rates set down in Section 4 Plant of the Schedules of Dayworks Carried Out Incidental to Contract Work published by the Civil Engineering Contractors Association current forty two days prior to the latest date for the Final Tender Submission.

The notices and conditions set down in *Section 4 Plant* of the *Schedules of Dayworks Carried Out* shall not apply;

- (ii) only the actual time plant is working or made available on the Site in accordance with sub paragraph (iv) of this paragraph 7 on Time Work Operations shall be chargeable;
- (iii) the period stated in Section 4 Plant of the Schedules of Dayworks Carried Out Incidental to Contract Work for plant not listed shall be the minimum chargeable;

- (iv) Plant to be made available on Site for a Time Work Operation and subject to an Order shall be charged at two-thirds of the rate obtained in accordance with sub-paragraph (i) of this paragraph 7 for the time the plant is made available but not used, subject to a maximum of 8 hours per Working Day and 40 hours in a working week;
- (v) rates for mechanical and other special plant not normally classed as small tools and not included in the Schedule of Rates and Prices or Section 4 Plant of the Schedules of Dayworks Carried Out Incidental to Contract Work shall be paid for at hire rates reasonably related to those obtained in accordance with sub-paragraph (i) of this paragraph 7;
- (vi) the Operating Company shall include for percentage adjustment to the basic cost of plant in *Section 4 Plant* of the *Schedule of Dayworks Carried Out Incidental to Contract Work*. The adjustment may be positive or negative.

Units 9 The units of measurement shall be:

- (i) basic cost of plant sum,
- (ii) percentage adjustment to the basic cost of plant percentage.

Itemisation 10 Separate items shall be provided for the basic cost of plant in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature
I	Basic cost of plant.
	2 Percentage adjustment to the basic cost of plant.

Basic Cost of Plant

11

The basic cost of plant for Time Work shall in accordance with Section 4 Plant of the Schedules of Dayworks Carried Out Incidental to Contract Work and in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:

Item coverage

(a) all associated costs irrespective of whether plant is owned, hired or leased;

(b)

fuel;

		(c)	consumable stores;
		(d)	repairs;
		(e)	maintenance;
		(f)	insurance;
		(g)	establishment charges overheads and profit;
		(h)	be exclusive of operator, driver and attendants.
Percentage Adjustment to the Basic Cost of Plant	12	accord	ercentage adjustment to the basic cost of plant shall in dance with the Preambles to Schedule of Rates and Prices al Directions include for:
Item coverage		(a)	owned, hired or leased plant;
		(b)	general servicing, overheads and replacements;
		(c)	fuel distribution;
		(d)	transporting within or related to the Unit;
		(e)	all other charges and costs not recovered in basic cost of plant;
		(f)	discounts.
	Materials	i	
Definitions	13	Basic	cost of materials and percentage adjustment:
		(i) price o	the basic cost of materials shall be charged at the net invoiced of materials delivered to the Operating Company;
		•	the Operating Company shall include for percentage ment to the basic cost of materials in Section 2 Materials of the lule of Dayworks Carried Out Incidental to Contract Work.
Units	14	The u	nits of measurement shall be:
		(i)	basic cost of materials sum,
		(ii)	percentage adjustment to the basic cost of materials
		percer	ntage.

Itemisation	15	Separate items shall be provided for the basic cost of materials in accordance with Chapter II paragraphs 3 and 4 and the following:		
		Grou	o Feature	
		I	1 Basic cost of materials.	
			2 Percentage adjustment to the basic cost of materials.	
Basic Cost of Material	16	of the	pasic cost of material shall in accordance with Section 2 Materials a Schedules of Dayworks Carried Out Incidental to Contract Work in accordance with the Preambles to Schedule of Rates and as General Directions include for:	
Item coverage		(a)	all costs of materials delivered to the Unit.	
Percentage Adjustment to the Basic Cost of Materials	17	The percentage adjustment to the basic cost of materials shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:		
Item coverage		(a)	ordering and taking delivery;	
		(b)	unloading, storing and protecting;	
		(c)	double handling;	
		(d)	waste;	
		(e)	discounts;	
		(f)	establishment charges, overheads and profit;	
		(g)	delivery within or related to the Unit;	
		(h)	all other charges and costs not recovered in basic cost of materials.	

Series 6600: Third Party Works

	Third Pa	rty Works			
Definitions	1	Third Party Works includes for any subcontractor or other third party engaged to deliver Operations or services.			
Units	2	The units of measurement shall be:			
		(i) basic costs of Third Party Works sum,			
		(ii) adjustment to basic cost of Third Party Works percentage.			
Measurement	3	Third Party Works shall be measured for works which the Director decides to procure as such, in accordance with Clauses 6.2.12 and 6.2.13 of Schedule 1 – Conditions of Contract, Clause 6 – 6.2 Orders, Schemes, Threshold Values and Bids,			
Measurement	4	The measurement of any invoiced costs for Third Party Works shall be the value of invoices received, after any discounts given except in respect of any discount for prompt payment not exceeding 2.5% which may be retained by the Operating Company.			
		The percentage adjustment shall be applied to the correctly submitted invoiced costs excluding Value Added Tax.			
Itemisation	5	Separate items shall be provided for Third Party Works in accordance with Chapter II paragraphs 3 and 4 and the following: Group Feature			
	_	I 1 Basic costs.			
	_	Percentage adjustment to basic costs.			
Basic Costs of Third Party Works Item coverage	6	The basic costs of Third Party Works shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for: (a) labour;			
Ç		(b) plant;			
		(c) materials;			

- (d) provision of temporary works and access on those structures listed in Schedule 2 Structures Appendix 4 Attachment 4.15
 Structures with Particular Requirements;
- (e) subcontractor profit and subcontractor non-site overheads

Percentage 7 Adjustment to Basic Costs of Third Party Works

The percentage adjustment to basic costs of Third Party Works shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for:

Item coverage

- (a) all inclusions as listed in Preambles except where noted in Paragraph 6 (d) to this Series 6600;
- (b) all other charges and costs overheads and profit not recovered in basic costs of Third Party Works.

Series 6700: Changes in Scope of Operations

3

Changes in the Extent of the Unit Impacting on Core Operations Items in Series 6100

Definition

If at any time during the Service Delivery Period the extent of the Unit increases or decreases, the items in this Series shall be measured to cover the impact of the change on Core Operations items included in Series 6100. Measurement of these items shall be deemed to cover the impact on all items within Series 6100.

Structures and gantries shall not be separately measured and the impact of any change on Series 6100 Core Operations in respect of structure and gantries are deemed to be included within item 670001001.

Units

2 The units of measurement shall be:

(a) addition/deduction for changes in the extent of the Unit kilometre/month,

Measurement

The measurement of the change in the extent of Trunk Roads in the Unit shall be the length of carriageway added to or removed from the Unit.

No deduction from the measurement of carriageway shall be made for Structures.

Roundabouts and slip roads shall be measured as single carriageway.

For slip roads the length shall be the distance between the mid-point of the nominal channel at its junctions. Roundabouts shall be measured along the centre-line between the outer edges of its carriageway.

Additions to the length of the road network shall be measured as a positive quantity. Deductions from the length of the road network shall be measured as a negative quantity.

Deductions in the extent of the Unit for removal of any part of the A96 are excluded from item 670001001.

Itemisation

4

5

Separate items shall be provided for changes in the extent of the Trunk Road network impacting on Core Operation items in Series 6100 in accordance with Chapter II paragraphs 3 and 4 and the following:

Group	Feature				
	Addition/deduction for change in the extent of the				
	Unit.				

Changes in the
Extent of the Unit
Impacting on
Core Operation
Items in Series
6100

The items for changes in the extent of the Unit impacting on Core Operation items in Series 6100 shall in accordance with the Preambles to the Schedule of Rates and Prices General Directions include for:

Item coverage

(a) all costs or savings occasioned by the change.

Series 6800: Carrying out Operations in another unit

	Percent	age Adjustment to value of Operations Executed in Another unit		
Units	1	The unit of measurement shall be:		
		(i) adjustment to value of Operations executed in another unit percentage.		
Measurement	2	The percentage adjustment shall be applied to the value of the Ordered Operations which have been executed in another unit elsewhere on the Scottish Trunk Road Network Operations shall be measured as follows:		
		(i) using items from Series 0100 to 5000 and 6400;		
		(ii) applying the percentage adjustment to the total value of Operations measured under Series 0100 to 5000 and 6400 to allow for all additional costs associated with executing Operations in another unit.		
Itemisation	3	Separate items shall be provided for Operations carried out in another unit in accordance with Chapter II paragraphs 3 and 4 and the following:		
		Group Feature		
		I Percentage adjustment to the value of Operations executed in another unit.		
Percentage Adjustment to value of Operations executed in another unit	4	The percentage adjustment to value of Operations executed elsewhere on the Network the shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:		
Item coverage		(a) all other charges and costs not recovered in the measured value of the Ordered Operations.		

1

3

4

Series 6900: Payment of Accounts

Payment of Accounts

Definition

- Services involving the payment of accounts shall include but not be limited to the following:
 - (a) payment of Undertakers' accounts;
 - (b) payment of Network Rail Possession charge accounts;
 - (c) payment of accounts for tipping charges where disposal of material is not included in item coverage elsewhere or where separate measurement is expressly stated.

In addition, there may be a requirement to pre-purchase materials for incorporation into Schemes at a later date. This will usually occur near the end of a financial year where a Scheme will be continued in the subsequent financial year. A separate item is provided for this. Note that measurement of this item must be reversed when materials are incorporated into a Scheme.

Units

- 2 The units of measurement shall be:
 - (i) invoiced costs of accounts sum.
 - (ii) invoiced cost of accounts for pre-purchase of materials...sum

Measurement

The measurement of invoiced costs of accounts shall be the value of invoices received after any discounts given except in respect of any discount for prompt payment not exceeding 2.5% which may be retained by the Operating Company.

Processing of payment of accounts, subsequent inclusion of the relevant amounts in monthly statements, any other costs and associated overheads and margin is deemed to be included in Core Operations.

Management and administration associated with payment of accounts is deemed to be included in the Item Coverage for Core Operations.

Itemisation

Separate items shall be provided for invoiced costs of accounts in accordance with Chapter II paragraphs 3 and 4 and the following:

Group Feature

	1	Invoiced costs of accounts.
		2 Invoiced costs of accounts for pre-purchase of materials.
Invoiced Costs for 5 Payment of Accounts		of accounts shall in accordance with the Preambles to ates and Prices General Directions include for:
Item coverage	(a) invoice	d costs.

Series 7000: Lump Sum Quotations

	Lump Sum Quotations			
Units	1	The units of measurement shall be:		
		(i) Lump Sum Quotationsum.		
Measurement	2	Lump Sum Quotation shall not be used unless the Director has given prior written consent.		
Itemisation	3	Separate items shall be provided for Lump Sum Quotations in accordance with Chapter II paragraphs 3 and 4 and the following: Group Feature I 1 Lump Sum Quotation		
Lump Sum Quotation	4	The item for Lump Sum Quotation shall in accordance with the Preambles to Schedule of Rates and Prices General Directions include for:		
Item coverage		(a) all costs to undertake the Operations as a Lump Sum Quotation.		

Appendix 1 – Rates and Prices

Appendix 2 – Breakdown of Rates, Prices and Key People