# PREAMBLE TO BILL OF QUANTITIES

**1. General directions**

In the Bill of Quantities, the subheadings and item descriptions identify the work covered by the respective items, read in conjunction with the matters listed against the relevant marginal headings “Item coverage” in part IV of the *Method of Measurement for Highway Works* published by her Majesty’s Stationery Office in 1987 and amendments included in these Preambles. The nature and extent of the work is to be ascertained by reference to the drawings, where relevant, specification highway construction details and Conditions of Contract. The rates and prices entered in the Bill of Quantities shall be deemed to be the full inclusive value of the work covered by the several items including the following unless expressly stated otherwise:

1.1 Labour and cost in connection therewith.

1.2 The supply of materials, goods, storage and costs in connection therewith including waste and delivery to site. Taking delivery of materials and goods supplied by others, unloading, storage and costs in connection therewith.

1.3 Plant and costs in connection therewith.

1.4 Fixing, erecting and installation or placing of materials and goods in position.

1.5 Temporary works.

1.6 The effect on the phasing of the works of alterations or additions services and supplies to the extent that such work is set forth or reasonably implied in the documents on which the tender is based.

1.7 General obligations, liabilities and risks involved in the execution of the Works set forth or reasonably implied in the documents on which the tender is based.

1.8 Establishment charges, overheads and profit.

1.9 Waste.

1.10 Disposal of material to contractor’s tip.

1.11 Attendance and transport for sampling and testing carried out by the engineer and supplying results of the tests carried out by the contractor.

1.12 Complying with quality assurance standards.

1.13 Preparation and supply of detailed working drawing where relevant.

**2. Measurement**

The measurement of work shall be computed net from the drawings unless stated otherwise in the Method of Measurement. The contractor shall allow in the rates and prices for waste.

**3. Pricing of items**

Each individual item shall have a rate or price entered against it. Rates and prices shall be expressed to two decimal places. Items against which no rate or price is entered shall be deemed to be covered by the other prices and rates in the Schedule of Rates.

**4. Use of alternative specified materials or designs**

Where in the contract a choice of alternative materials or designs is indicated for a given purpose, the description billed and the rates and prices inserted shall be deemed to cover any of the permitted alternative materials or designs which the contractor may elect to use. The measurement of such work shall be based upon the thinnest alternative construction permitted by the contract.

**5. Privately and publicly owned services or supplies**

The information in the contract as to the whereabouts of existing services and the mains is believed to be correct but the contractor shall not be relieved of his obligations under the contract. The contractor shall include in his rates and prices for locating and taking measures for the support and full protection of pipes, cables and other apparatus during the progress of the works obtaining the written consent of the appropriate authority to interrupt the service of supply and for keeping the engineer informed of all arrangements he makes with the owners of the privately owned services or supplies, statutory undertakers and public authorities as appropriate.

**6. Labours**

Labours in connection with nominated subcontractors shall include:

6.1 In the case of work or services executed, for affording the use of existing working space, access, temporary roads, erected scaffolding, working shelters, staging, ladders, hoists, storage, latrines, messing, welfare and other facilities existing on site and the provision of protection, water, electricity for lighting and clearing away rubbish and debris arising from the work.

6.2 In the case of goods, materials or services supplied, for taking delivery, unloading, storing, protecting and returning crates, cartons and packing materials.

**7. Road works overall requirements**

The contractor 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 construction plant and general requirements for subbases and road bases.

**8. Dealing with flow**

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

**9. Amendment to the Method of Measurement**

For the purpose of this contract, the Method of Measurement referred to in Preamble 1 General Directions is amended in accordance with the pages immediately following.

**WORKS ITEMS**

 **PRELIMINARIES**

1. Allow for thoroughly examining the site of the proposed works and becoming conversant with all necessary details and particulars. Item

2. Allow for carefully inspecting the contract drawings and perusing the Conditions of Services Item

3. Allow for complying with the terms of each of the Conditions of Contract. Item

4. Allow for setting out the works and providing instruments and labour. Item

5. Allow for provision of temporary sanitary conveniences and removal on completion of the works. Item

6. Allow for fencing of works, lighting, watching and traffic control. Item

7. Allow for testing of works and materials as ordered by the engineer. Item

8. Allow for the provision of water for use on site. Item

9. Allow for protecting from injury by frost or inclement weather all work in progress which may be affected thereby. Item

10. Allow for protection against damage during progress of the works to all underground cables, gas or water mains, stop cocks etc laying on the route of the proposed works. Item

11. Allow for the protection of property. Item

12. Allow for the importation of labour. Item

13. Allow for clearing the site on completion. Item

14. Allow for holiday pay, guaranteed work, conveyance of workmen, etc. Item

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**General – Areas with Tree Cover**

1. This item is to be priced only if rooted areas do not have full Type 2 construction already placed to allow accessibility, this will be dependent on your construction sequence - Areas where existing tree roots are to remain to be protected from any machinery used on site with min 150mm depth site produced mulch/chippings spread to a useable width with 2400x1200mm Council owned ground protection mats (Multimat heavy duty mats) placed on top to provide temporary running surface. Approx 200 mats available for collection from Council’s Fleets Street Depot in Nelson. Also available are 2 way and 4 way bolted connectors to create a joined running surface across rooted and also wet areas. All vehicles to be used should be tracked. If mats are used then they should be returned to source upon completion in a clean state. m 600

2. Remove and dispose by chipping /mulching on site existing tree stumps (vary from 50-300mm dia) on line of new bridleway. All stumps were killed in clearance operation. All chip and mulch to be utilised or deposited on site to Engineers instruction. nr 66

 **Main footpath construction (2m and 3m width)**

3. Excavate and dispose on site to Engineers instruction to a depth of 150mm for new bridleway formation. Retain suitable materials to reinstate to sides of new track. Himalayan Balsam is present throughout the site so no material to be taken off site. m2 10525

4. Excavate and dispose on site to Engineers Instruction to a max depth of 365mm for new bridleway formation to end of steel bridge. Retain suitable materials to reinstate to sides of new track. m2 15

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5. Allow for extra excavation, disposal and regrading to formation to maintain suitable crossfalls for bridleway. All material to be disposed on site to Engineers Instruction. To include extra 150mm depth excavation required for access road. m3 110

6. Provide, lay and lap to manufacturer’s specifications Terram T1000 geotextile or similar performing approved by Engineer. m2 10525

7. Provide, lay and compact 100mm depth recycled Mot Type 1 stone to 1 in 40 cross falls to suit local terrain as agreed with Engineer. m2 10525

8. Provide, lay and compact 100mm max depth recycled Mot Type 1 stone for regulation to level formation to required cross falls. m2 5000

9. Provide, lay and compact 50mm depth Mot Type 1 stone blinded with 6mm to dust to create bridleway surface. m2 10525

10. Provide, lay and compact in two even layers 300mm max depth recycled Mot Type 1 stone to steel bridge end. m2 15

11. Provide and lay new 50x150mm pcc edging, to include concrete bed and haunch, all excavation and disposal. m2 10.7

12. Provide, lay and compact with shedding falls AC10 Dense Surf 100/150 to BS EN13108-01 depth 65mm to steel bridge end. m2 15

13. Reinstate with suitable retained materials to sides of new bridleway. Ensure sides are lower to allow for free draining of new surface. m 3577

**Root Protection**

14. Scrape off to good sub grade and clear off all vegetation and detritus to proposed bridleway area. Dispose to Engineers instruction. m2 1800

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15. Excavate carefully around root systems to clear area to enable construction as detailed. Retain suitable material to form sides to construction rest of excavated materials to be spread on site to Engineers instruction. m2 1800

16. Lay pea gravel between and just over all tree roots. Assume 50mm depth max. m3 90

17. Provide, lay and lap to manufacturer’s specifications Terram T1000 geotextile or similar performing approved by Engineer. m2 1800

18. Provide, lay and compact 50mm depth Mot Type 1 stone blinded with 6mm to dust to create bridleway surface. m2 1800

19. Provide, lay and lightly compact 100mm depth recycled Mot Type 1 stone. m2 1800

20. Provide, lay and pin to manufacturer’s specifications Terram ‘Bodpave 40’ or similar performing interlocking recycled paver as approved by Engineer. m2 1800

21. Fill Bodpave 40 cells with 4-14m angular stone (max depth 40mm). m2 1800

22. Retained material to be placed and compacted to sides of new constructed bridleway (approx. 350mm width to each side). m 600

**Drainage**

23. Excavate and dispose on site to Engineers instruction for 1x1x1m deep sump (4 nr). m3 6

24. Excavate and dispose on site to Engineers instruction for 3x3x1m deep sump (2nr). m3 18

25. Provide and lay suitable single size 125mm clean quarried hard angular limestone to excavated sumps as detailed. m3 24

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26. Provide and completely wrap drainage stone in proposed sumps with suitable geotextile Terram T1000 overlapped to manufacturer’s specifications or similar performing as agreed with Engineer. m2 70

27. Install to min 1 in 100 falls to outfall above existing river 150mm dia twinwall smooth pipe from sump. To include all excavation and reinstatement necessary. Excess material to be disposed of on site as instructed by Engineer. To include suitable singular pipe bed and surround and ‘natural stone’ outfall formed with in situ stone to suit stacked and mortared around outfall. 5 nr outfalls in total. m 50

**Fencing and new paddock access**

28. Provide and set in concrete to manufacturer’s specifications 1 nr metal hanging post and 1 nr metal receiving post to suit existing metal field gate. Posts to be galvanised. Sum 1

29. Break through existing fence in two places and make good by restraining with 4 new straining posts as item 30. m 8

30. Provide and install 1.2m stock proof fencing. Provide and set with postcrete 10 nr 2.25m 150mm dia treated timber straining posts/turning posts, strained with 1.68m heavy half round strut cut to size when placing, intermediate 100mm dia 1.75m treated timber posts to be placed at max 2.5m c/c. Fence to have suitable aluminium/zinc coated stock proof fencing suitable for small livestock approx. 1m high and suitable 4mm dia galvanised straining wire and staples. All fixings required to assemble to be galvanised. m 342

31. Provide, lay, pin and lap with 500mm overlap to manufacturer’s specifications Tensar Triax TX160 or similar performing geogrid (to be proven by calculation to match Tensar’s) to proposed stone access track formation level. m2 242

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32. Provide, lay and compact 150mm depth recycled Mot Type 1 stone to 1 in 40 cross falls to suit local terrain as agreed with Engineer. m2 242

33. Provide and set in concrete to manufacturer’s specifications Woodscape ‘SGP-F25-RE-100/1400’ square removable bollard with point top profile, 1 nr flat groove with 25mm Class 2 Solid Colour Band White and stainless steel socket to suit. Nr 1

34. Provide and set in concrete to manufacturer’s specifications Woodscape ‘SGP-F25-100/1500’ square fixed standard bollard with point top profile, 1 nr flat groove with 25mm Class 2 Solid Colour Band White. Nr 2

 **Existing bitmac and stone track from Montford Rd.**

35. Existing surface where proposed works are to be carried out to be completely cleared of all vegetation, detritus and any loose materials and disposed of. Full weed killing to be carried out to manufacturer’s specifications. Area to be swept clear upon completion of clearance and surface preparation. m2 706

36. Saw cut straight edges, excavate and dispose to overlay ends to allow overlay to be flush to existing road surfaces to a maximum depth of 165mm. m2 34

37. Provide, lay and compact to a depth of 100mm Mot Type 1 stone to both transition areas. m2 34

38. Apply suitable tack coat Colas Colbond 50 Polymer modified emulsion applied to a min spread rate of 1 ltr/m2. m2 706

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39. Provide, lay regulate and compact to an average depth of 30mm AC10 Dense Bin 100/150 to BS EN13108-01 to achieve suitable profile to overlay with shedding falls to sides of road. To include full area of both transitions. m2 180

40. Provide, lay and compact with shedding falls to sides AC10 Dense Surf 100/150 to BS EN13108-1 depth 35mm to full road area. m2 706

41. Raise and reset existing manhole. Nr 3

 **Wetland area**

42. Excavate and dispose on site to Engineers instruction for formation of wetland area retaining suitable topsoil and turf for reinstatement. m3 800

43. Reinstate and lay existing topsoil to a min depth of 50mm and lay and usable retained turf to wetland area. Full area to be seeded with Hurrells ‘Swales, ponds and bankside seed mix’ spread to suppliers specifications. m2 1004

44. Form suitable outfall to wetland area from existing 225mm dia pipe as detailed with stone selected by Engineer from Councils Lomeshaye Compound in Nelson, bedded on concrete and fully mortared joints. sum 1

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S**ummary**

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Add 10% contingencies

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