

## **Trench Guidelines Revision 2 – Amendments issued in September 2005 for Guidelines for the Opening, Backfilling and Reinstatement of Trenches in Public Roads**

The Trench Guidelines were first issued in April 2002. A number of amendments were subsequently issued in an Errata sheet dated December 2002. These amendments are referred to as Revision 1.

Revision 2 is dated September 2005 and contains the earlier amendments along with further changes which mainly relate to temporary and permanent reinstatement but which also include other modifications. All of the Revision 2 amendments are set out below and it should be noted, that the page numbers referred to, relate to the original printed document (dated April 2002). A consolidated electronic document which will include all Revision 2 amendments will be available shortly.

### **Page 57 - Replace 6.3.1.3 with:**

3. Where necessary for protection purposes, existing vulnerable services in trenches shall be wrapped in 12 mm neoprene rubber, or similar, before backfilling takes place.

### **Pages 59 & 60 - Replace 6.4.1 with:**

#### 6.4.1 Marker tapes

Distinctive marker tapes are to be provided over all underground services including those for which the Local Authority is itself responsible viz. water, surface water and sewerage.

The following colour codes on marker tapes are to be incorporated in all trenches in public roads at the depths shown in Drawings Numbers 1 - 16.

<b>Service</b>	<b>Duct/Pipe Colour</b>	<b>Marker Tape Colour *</b>
Electricity	Red	Red
Telecommunications	Green or grey	Green
Gas	Yellow	Yellow
Water Supply	Blue / Black	Blue
Sewerage	Brown	Brown
Surface Water	Black	Chevron of White/Blue
Cable T.V.		Chevron of Red/Blue/Green
Other services		Chevron of Black/White

\* Marker Tapes should be a minimum of 125 mm wide.

**Page 69 - Replace Drawing Note 13 with:**

13. Longitudinal installations and trench excavations shall be straight and laid out parallel to the centre of the road/footway in so far as is practicable. In the case of transverse road or footway crossings, where practicable, the alignment shall be at right angles to the kerb or property line. Where it is necessary to have a crossing at a skew angle the area of reinstatement shall be extended.

**Page 77 - Standard Drawing No. 6 - Permanent Reinstatement – Grass Verges, Medians, Fields and Lawns**

Amend text which applies to drawing on left hand side to state: “To apply when nearest point of trench is within one metre of paved edge of a national or regional road or in the median of a dual carriageway or motorway or within 0.5 metres of paved edge of a local road. In addition, the compacted Clause 804 material shall extend to the road edge.”

Amend text which applies to drawing on right hand side to state: “To apply when nearest point of trench is over one metre from paved edge of a national or regional road or over 0.5 metres from paved edge of a local road.”

**Page 78 - Standard Drawing No.7 - Temporary Reinstatement - Longitudinal Openings in Roadways**

Add footnote:

2. Minimum compacted depth of 75 mm to apply to all National and Regional roads. This depth may be reduced to 50 mm for lightly trafficked Local roads, at the discretion of the Road Authority.

**Page 80 - Standard Drawing No. 9 - Permanent & Immediate Permanent Reinstatement - Longitudinal Openings in Roadways with Surface Dressing (or Surface Dressing combined with a Bituminous Course) on a Granular Roadbase only**

Amend “75mm or match existing depth” to read “75mm depth or match existing depth where it is greater than 75mm”

Add footnote:

3. For Regional and Local roads without a macadam surface (e.g. may be Cl.804 with double surface dressing), the Road Authority may at its discretion permit the temporary reinstatement surface of dense bitumen macadam to be regulated in lieu of excavation and reinstatement; and the subsequent application of a surface dressing over a half road width where the road width is greater than 4 metres. Where the road width is less than 4 metres the surface dressing should be applied over the full road width.

**Page 82 - Standard Drawing No. 11: Permanent & Immediate Permanent Reinstatement – Roadways with Bituminous Wearing Courses on Leanmix or DBM Roadbases**

Add footnote:

6. The coarse aggregate in the wearing course macadam shall have a polished stone value of not less than 60

**Page 85 - Standard Drawing No. 14 – Amend heading to state: Reinstatement of Carriageways and Hard Shoulders on all National Roads**

Add footnotes:

2. 100°C hot bitumen binder 50 pen or cold thixotropic bitumen 50-70 pen shall be applied to all vertical cuts in accordance with BS 594 prior to application of bituminous materials.

3. Surface Dressing to Clause 919 shall be applied where specified **or** a wearing course & basecourse shall be provided as specified in Standard Drawing No. 11.

4. The coarse aggregate in the dense bitumen macadam shall have a polished stone value of not less than 60

5. The use of a low strength concrete which will flow and is self compacting and with a strength requirement in the range of 2 to 4 N/mm<sup>2</sup> may also be used in lieu of foam mix concrete.

6. Consideration may be given to allowing the use of Clause 804 or Clause 806 material instead of leanmix or foam mix concrete subject to the provision of an adequate quality assurance system which has the prior written approval of the National Roads Authority

**Page 86 - Standard Drawing No. 15: Amend heading to state: Reinstatement of Transverse Openings in Roadways**

Add footnotes:

4. 100°C hot bitumen binder 50 pen or cold thixotropic bitumen 50-70 pen shall be applied to all vertical cuts in accordance with BS 594 prior to application of bituminous materials.

5. Surface joints shall be sealed with hot bitumen and topped with fine sand/grit to get a minimum 55 skid resistance value as determined by the Portable Skid Resistance Pendulum used in accordance with Road Note 27 and shall not exceed 3mm thickness and 25mm width.

6. The coarse aggregate in the wearing course macadam shall have a polished stone value of not less than 60.