IDM: HIGHWAYS & CAPITAL INVESTMENT PROGRAMME 2013/14

Appendix 1

Non Principal Road resurfacing

Schemes recommended for planned maintenance under the Non Principal Road Capital Improvements programme for 2013/14 as listed in Appendix 2 have been selected using the Horizons software package.

Horizons is a web based mapping application which allows Highway Engineers to visualise, manage and optimise asset management strategies. The software package is based on a combination of GIS, Pavement Management and Asset Management systems. It provides the facility to view and assess the condition of the highway assets, assess maintenance and replacement requirements, and provide a programme for structural repairs based on whole life principles. This allows optimum use of the available highway funding. The software identifies and prioritises highway maintenance schemes, and determines the cost implications of various treatments.

Historically, the capital funded highway maintenance programme for carriageways and footways has been based on a 'worst first' basis with additional patching works in targeted areas. The intention now is to move towards the implementation of Asset Management best practice. The medium to long term aim is to factor in whole life costing and locally relevant priorities to deliver a holistic programme that improves the highways for all users in the Borough.

The overarching aim is to be able to allocate capital funding based on whole life costing from 2014 onwards but to do this there will be a transition period moving from a 'worst first' methodology to a fully fledged asset management approach. The 2013-14 programme provides the first stage development of this approach using the Horizons software system to deliver a more holistic approach.

For the 2013-14 the following condition and inventory data was imported into Horizons to develop the Capital Programme.

- SCANNER survey data for A, B and C roads for 2010/11 and 2011/12. Giving coverage of the complete classified road network as defined for the ROAD2000 project.
- DVI survey data of primary footways for 2008/9, 2009/10 and 2010/11.
- DVI survey of 50% of the unclassified carriageways and footways 2012/13.
- CVI survey data of the unclassified carriageways for 2008/9, 2009/10 and 2010/11.
- GIS model for the UKPMS network.
- Additional data to weight the programme based on:
  - Bus Routes
  - Cycle Routes
  - 1 and 24 hour reactive repair works.