

## DARLINGTON HEART – BRIEF FOR MAPPING AND UTILITY SURVEY

### Introduction

This project signals the start of the programme of public realm improvements in Darlington Town Centre. This will include a major reconfiguration of the circulation system in the Town Centre and the development of a pedestrianised zone and an improved public realm environment.

An accurate topographic and utilities survey needs to be carried out before any detailed design can take place. We would therefore like you to provide a revised fixed price, lump sum quote for the measured survey as specified below.

### Survey Specification

Area: The survey shall be carried out as shown on the attached plan, within and on the boundary line. The survey has been split into three categories – i.e. **Basic, General and Detailed Surveys**. Note that the underground utility detection (as described in your letter dated 29<sup>th</sup> September 2003) will need to be carried out as part of the Detailed Survey in the core town centre area.

#### Contents (for Basic Survey):

- Buildings and Structure – the outlines are to be shown at the plinth line;
- Levels – spot levels at kerbs, channels, crown of all roads and adjoining roadways and footways. Also at the cover levels to manholes, gullies, inspection chambers and the like;
- Highways – roads to be surveyed to the kerb line (also showing drop kerbs). All tracks, footways and isolated drives also to be included;
- Traffic components - including traffic signals, islands, pedestrian refuges and crossings, tactile paving and bridges;
- Visible Surface Features - including inspection and manhole covers, road gullies etc;
- Barriers - including walls (retaining and freestanding), fences, gates, railings etc.;
- Street Furniture - including lighting columns, sign posts, bollards, seating etc.; and,
- Vegetation - including individual trees, indicating the accurate position of the tree bole, girth at 1m above ground and the full extent of the canopy. Areas of bedding flower displays, shrubs (indicating position and spread) and grass are also to be shown.

#### Contents (for General Survey):

- All items from the Basic Survey; plus,
- Buildings - doors and ground floor windows locations are to be shown;
- Levels – these will be shown as contours at spaced vertical intervals of 0.5m. All benchmarks used will be located on the drawing. Additional Spot levels will be located at the following locations;
  - the top and bottom of each step or retaining feature,
  - all coping levels to all freestanding walls and the like,
  - tops of railings or fences and the like,
  - floor levels, threshold levels, ground level for all buildings in or bounding the boundary line,
  - all mounds and depressions not adequately indicated in the contour plan, and at
  - high and low points of ground and at major changes in gradient; and,
- Surface Construction Material – showing the extents and providing descriptions. To also include for edging material;

#### Contents (for Detailed Survey):

- All items from the Basic and General Survey; plus,
- Location of all underground utilities, sewers and service water drains;
- Depth of each utility, sewer and service water drain; and,
- Type of utility (defined on separate layers).

This Detailed Survey will show all pipes and cables (including fibre optics) in metallic, plastic or other materials.

Accuracy: The survey shall be plotted to the following degree of accuracy:

Measured Survey to be accurate to within +/- 0.1m; and  
Contours shall be accurate to within +/- 0.1m.

Presentation: The survey will be supplied as a 3D AutoCAD drawing file on disk or as an email attachment. One hard copy of the plan(s) is also required. The survey shall be set up to plot at 1:200 scale (or similar and approved), to fit on A1 sheets with overlaps to adjacent sheets. Electronic outputs must be referenced to the Ordnance Survey grid in terms of levels and coordinates.

Responsibility for Errors: Any errors made in excess of the above tolerances in plan or other document prepared by the Surveyor shall be rectified at the Surveyors own expense. The Surveyor will also be responsible for any loss or damage, whether direct or indirect or consequently resulting from any error in any plan, levels or other documents finally submitted to Gillespies. Resulting from this it will be deemed that the Surveyor will have secured an adequate professional indemnity to cover such loss. Such indemnity must be available for inspection by the employer at any time before and during the Contract.

Insurance: Throughout the execution of the survey work the Surveyor shall insure against any damage, loss or injury which may occur to any property or person arising out of the execution of the survey or in the carrying out of the Contract. The insurance shall be affected with the Insurer in terms approved by the Employer (which approval shall not be unreasonably withheld).

### **Programme**

The survey will be completed by 13<sup>th</sup> February 2004 (if commissioned on or before the beginning of January).

### **Available Information**

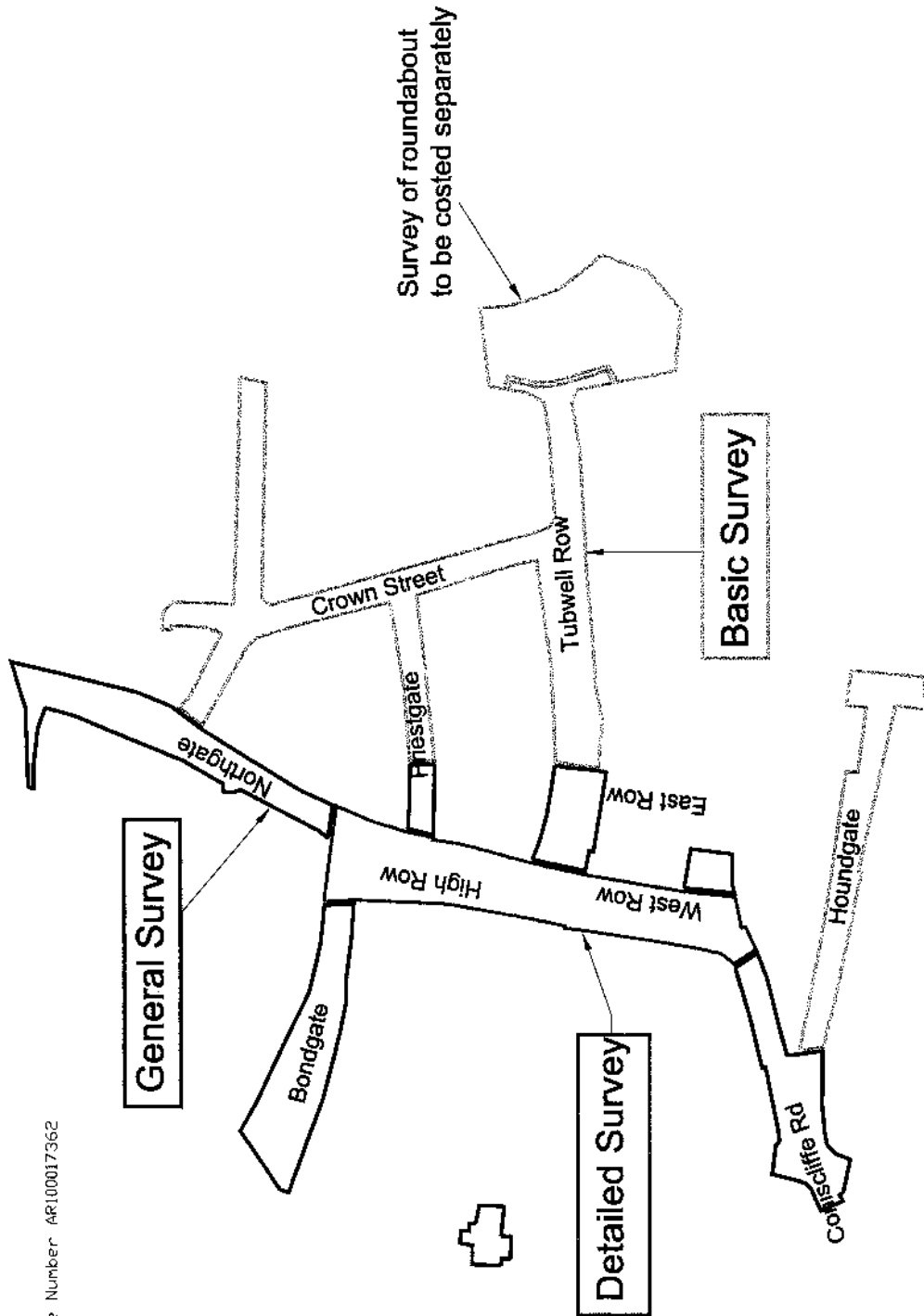
- Existing utility drawings, as supplied by utility companies.
- Survey extents plan
- OS Base Plan

### **Contacts**

Tom Walker and Catherine Xavier at Gillespies (0113 2470550)

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REVISIONS	
NO.	DATE



<input type="checkbox"/> PLANNING	<input type="checkbox"/> SURVEY	<input type="checkbox"/> INVESTIGATION	<input type="checkbox"/> DESIGN
JOB TITLE			
Darlington Pedestrian Heart Review T102 Survey Extension			
SCALE	DATE	DATE	DATE
DRAWN BY: JH	ENVELOPE: TM	PRINTED	SCALE
CONTRACT NO	PROJECT NO	DATE	3
M69134158			

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# Darlington Town Centre