

PRECISE CONTROL AND DATUM

At Murphy Surveys, we know the only way to bring a project to conclusion within high tolerance is to establish and maintain a precise control network from the onset and throughout the lifetime of the project.

Several basic steps are required to plan and execute a control survey:

- Research the existing control in the project area
- Design a survey to meet the specifications and requirements
- Determine types of measurements to be captured
- Determine types of instruments required in order to capture the data
- Determine the field procedures required
- Arrange a site reconnaissance and approximate the surveys required
- Install and traverse station locations
- Collect Data
- Reduce data according to the requirements
- Adjust data
- Prepare the survey report

GPS

Murphy Surveys currently have 14 GPS receivers to provide accurate and cost effective control for your project.

Robotic Accuracy

For high accuracy control, Murphy Surveys employ 1" and 32 Leica Robotic Total Stations with the latest traversing software for excellent results every time. Survey control points would be located with sufficient redundant measurements to enable the detection of measurement errors and ensure consistency which will result in precision estimates correlating with required accuracy.

Precise levelling

Leica DNA 2002 and DNA 10 Digital Levels allow high order levelling datum to be established and proved throughout the site

Survey Reports

Murphy Surveys supply our clients with control reports detailing levels of accuracy for a product you can trust. When prepared, a survey report would provide a narrative - a detailed description of the project and the procedures, the scope of work performed, a record information used in addition to the findings and the basis of the findings. It is absolutely necessary that you have site control that you can trust. Murphy Survey have gained 25 years experience in mapping and land surveying

Site Control

We are commonly asked to set out for a development where there is no site control, or asked to provide control so that the contractors staff can set out on a day to day basis. We usually recommend carrying out a boundary survey to establish control in the design grid. If there's a shortage of space for what is on the design drawings (a common occurrence!) it's important to find out before construction starts so that decisions can be taken to rectify the situation.

For projects where it is required to work to Irish Grid we use GPS receivers to put in the main control stations. Accurate Leica Robotic Total Stations are used then to set out the deigned control grid



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