

FLYING FISH COVE – STAGE 2

Contract Documents

Supplementary: Specification and Technical Standard

Provide As-Built Data

SS02

1. General

This Supplementary Specification and Technical Standard applies to the provision of As-Built Data and shall be read in conjunction with the Supplementary Conditions of Contract. This Supplementary Specification supersedes MRS50 Standard Work Item 20151 *Supply of as constructed documents*.

2. Work Items

The work items covered in this Supplementary Specification are listed below:

Item Number	Description	Unit of Measurement
90101	Provide As-Built Data	Lump Sum

2.1 Work Operations

The work operations incorporated in the above item include the following as indicated:-

- Mark-up drawings to record any changes to the design detail, intent and functionality made during the construction phase in hard copy format on A3 size drawings.
- Survey data capturing as-built data in electronic format.
- As-Constructed Information and Records

All the above indicated work operations shall include an allowance for associated costs with the certification by RPEQ or CPENG engineer, submission, revision and resubmission of data, if necessary.

All as constructed plans shall be prepared and provided by the Contractor.

3. Information Required (as indicated above)

- (a) One original set plus two hard copies of A3 size marked-up drawings showing clearly the as-built changes to the contract detail drawings in revision clouds.
- (b) 1 x .dwg file format, 1 x .shp file format and 1 x .pdf file format set of as -built plans showing all constructed works.
- (c) Survey Data in electronic format shall be provided in 12D ASCII file format. The as-built survey data must capture the horizontal and vertical locations of all constructed features, infrastructure, facilities and services within the site boundaries including any works outside the site such as signage installation and for utility service works managed by the Contractor. The survey data must also contain survey models for the earthwork subgrade profile interfacing with the existing survey terrain and subsequent pavement layer profiles. Location shall be described by coordinates and reduced levels to tie in with Grid: GDA 1994 MGA Zone 48. Horizontal datum: GDA
- (d) As-Built records for all works are to be recorded and documented as required by the relevant specification or authority, signed off by the Contractor and Principal's surveyor where appropriate. As-Built information includes but is not limited to compaction, pull-test, drilling and grout testing results and shall be provided as a part of the As-Built Information package. This information is to be forwarded to the Superintendent at the appropriate times and when requested. Pipe materials, manufacture dates and fitting details are to be provided to the Superintendent as soon as the information is available.



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4. Accuracy of Construction Records

The accuracy of location of the various portions of the as-built survey data shall conform to the requirements detailed in Table 1 below:

Table 1 – Details of Accuracy of Construction Records

Description	Horizontal Accuracy	Vertical Accuracy
Services	± 10mm	±10mm
Structures	± 10mm	±10mm
Other surveyed items	±25mm	±25mm

Timing of As-Built Information

As-Built survey provides construction record data and shall proceed concurrently with the progress of works. Construction survey records shall be transmitted to the Superintendent within one (1) week of the survey being carried out.

The Contractor shall mark up their As-Built drawings on a regular basis and the time interval between such 'mark ups' shall not exceed one calendar month. Marked-up drawings shall be kept in the Contractor's office and made available for review by the Superintendent when requested.

The complete set of marked-up "As-Built" drawings shall be submitted to the Superintendent at least 21 days prior to the anticipated date of Final Certificate. The Superintendent shall review the records for their completeness. The Superintendent shall advise the Contractor within 14 days of receipt of "As-Built" drawings of their completeness or otherwise for revision and resubmission by the Contractor.

5. Payment

Payment for provision of As Built Data will be on a lump sum basis and the value for the QA documentation being assessed is 5% of the work value for the relevant package of works.

The Contractor shall provide manufacturer details, dates and location services as required in order for these documents to be completed in accordance with authority and specification requirements. This information is to be provided prior to Practical Completion payment, and if not, the last payment will be withheld until the information is supplied.

