



# As Constructed Submission Procedure

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## 1.0 INTRODUCTION

### 1.1 Purpose of Attribute data information

Central Highlands Regional Council (CHRC) is in a process of developing a comprehensive Geographical Information System (GIS) and Asset Management Databases, which list and contain valuable information on all Council owned and/or maintained infrastructure, as well as storing a large amount of other corporate and miscellaneous data. The collection of asset data is extremely important to CHRC as it forms the basis for many important decision making processes and activities.

This document is for the use of Applicants (or their agents) of Development Permits, agents and contractors of CHRC and CHRC staff who are required to submit "As Constructed" information. It sets out the format in which the digital files are required in order for CHRC to be able to append the data to its existing GIS datasets and Asset Databases.

This attribute data requirement is in addition to the CHRC existing operational works approval *Condition for – As Constructed Information*.

### 1.2 Aim of Attribute Data

The aim of collation of attribute data is to assist CHRC staff to ensure that data input into the CHRC GIS and Asset Management Databases is consistent, accurate and complete.

### 1.3 Associated Documents

Section 2 of this document provides guidance for the consultants on how to provide Council with the attribute information concerning the new infrastructure associated with the development. These sections are directly associated with an Excel template document Council has provided for the consultants to compile the attribute information.

This Excel template - *Inclusions of Attribute Data* can be obtained by contacting either Council's Development Engineering Department or Assets Department on 1300 242 686.

### 1.4 Applicant/Consultant Responsibilities

The consultant shall be responsible for:

- Supplying digital data in the format set out in *Operational Works Approval, under As Constructed Information* and this Preamble document
- Ensuring that the data supplied to Council is correct and accurate; and
- Providing all information on any asset that will ultimately become the responsibility of Council, even if the asset type is not listed in the Attribute data template.

## 2.0 COMPLETING AND SUBMISSION OF ATTRIBUTE DATA AND AS CONSTRUCTED DRAWINGS

### 2.1 Surveying and Drafting Requirement

#### 2.1.1 Datum and projection

Drawing format shall be set up using the EPSG: 28355 as follows;

- Datum: GDA 94
- Projection: Zone UTM zones in Easting and Northings (Eg Zone 55)
- Vertical Height datum: AHD

#### 2.1.2 Positional Accuracy

Object	Horizontal Accuracy	Vertical Accuracy
Point	+/- 100mm	+/- 20mm
Line	+/- 1000mm	+/- 20mm

#### 2.1.3 Drawing requirements.

As stated in *As Constructed Information* under operational works approval, As Constructed Electronic drawing shall be in AutoCAD, DWG or DXF file and shall create using layers shown in the table 2.1. below:

**Table 2.1 Object Detail and Layer Naming**

Asset Category	Asset Type	Map Object Details	Preferred Layer Name (different colour shall use for each layer)
Roads	Road pavement	<i>Continuous polyline showing the centre of the road</i>	Road_C
	Road surface	<i>Continuous polyline showing the edge of the seal</i>	Road_E
	Footpaths	<i>1. Continuous polyline along the perimeter of the path</i>	Road_Path
	Kerb and Channel	<i>Polyline along the lip of the kerb. Direction of the line should be drawn in the direction of flow</i>	Road_KC
	Other Structures	<i>Continuous polyline along the perimeter of a roundabout, median or traffic island.</i>	Road_Structure
	Guard rails	<i>Polyline along the rail</i>	Road_GR
	Street lights	<i>point</i>	Street_light
Stormwater Drainage	Stormwater Pipe	<i>Line to be drawn in the direction of flow along the centre of the pipe between two nodes or pits.</i>	SWD_Pipe
	Stormwater pit	<i>point</i>	SWD_Pit
	Open Channel	<i>Line to be drawn in the direction of flow along the centre of the channel.</i>	SWD_OC
	Detention/Retention/ Sediment Basins & wet lands	<i>Polygon along Perimeter of water body</i>	
Water Reticulation	Water main	<i>line drawn on centre of fittings</i>	Water_main
	Sluice Valves	<i>point</i>	Water_Valve
	All the Fittings (bends, joints, reducers etc.)	<i>point with standard symbol</i>	Water_fitting
	Hydrants	<i>point</i>	Water_FH
	Meters	<i>point</i>	Water_meter
	Other valves	<i>point</i>	water_other
	Domestic connections	<i>Polyline from tapping band to meter</i>	Water_HC
	Pumping station	<i>point</i>	Water_PS
Sewer Reticulation	Sewer main	<i>line drawn on centre of fittings</i>	Sewer_main
	Sewer rising main	<i>line drawn on centre of fittings</i>	Sewer_RM
	Sewer manhole	<i>point</i>	Sewer_MH

All fittings (Valve, Joints, Bends etc.)	<i>point with standard symbol</i>	Sewer_Fitting
Sewer jump ups	<i>point</i>	Sewer_HC
Pump stations	<i>point</i>	Sewer_PS

## 2.2 Inclusion of Attribute Data

CHRC requires specific information from constructed assets and this required data has listed in Excel template - *Inclusion of Attribute Data*.

This attribute data template consists of optional and mandatory data fields, where data fields marked as “\*” need to be provided if different to “As constructed schedule of work” (Refer to operational works approval condition 23.5) and rest of the fields are mandatory.

Electronic version of the Excel template - *Inclusion of Attribute Data* can be obtained from Council’s Web site(<http://www.centralhighlands.qld.gov.au/web/guest/as-constructed-submissions> ) or by contacting Assets Department on 1300 242 686.

### 2.2.1 Asset Identification (Asset ID)

This number in the Excel template - *Inclusion of Attribute Data* shall correspond to the each asset entry number of the map object in AutoCAD drawing and also must be shown near the location of the asset. This unique identifier help our system to link digital data and attribute data in the excel table.

Each asset type shall be identified or numbered separately if it changes any of its physical attributes such as width, pavement thickness, surface type etc. E.g. If the Road F changes it’s width at a certain node then it should be numbered differently from that node.

Electronic version of this attribute data template shall provide together with as constructed AutoCAD DWG or DXF file and complete schedule of civil work as stipulated in *operational works approval* .

If you have any queries or require further assistance in relation to information mentioned above, please contact Council’s Assets Department on 1300 242 686.