

## 0. Cover Page

### 0.0 Cover Page



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# Corporate 12D User Manual

## Standard Procedures

(Revision 2.0 - Nov 2010)


**UNCONTROLLED WHEN PRINTED**

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## 1.0 Introduction

### 1.1 Purpose

#### Purpose

This manual is designed to guide the use of the 12d Model software throughout GHD worldwide in a consistent, intuitive and structured manner.

This manual provides guidelines and a procedural framework to simplify the production of projects of a consistent quality and output, whilst still being flexible enough to cater for external client and differing regional requirements. The resultant aim is to enable users of 12d software to function on unfamiliar projects with minimal fuss and delay, thereby helping the sharing of data and resources throughout GHD.

It is not intended as a replacement for the official documentation provided by 12D Solutions, nor is it intended as a training manual. For formal training assistance, please consult your local 12d Champion. (refer Administration -> )

#### 12d Model

*"12d Model is a powerful terrain modelling, surveying and civil engineering software package. It allows fast production in a wide variety of projects including roads, rail, site layouts, and environmental impact studies"*

- 12D

Solutions Pty Ltd

For further information on 12d Model refer to the official website <http://www.12d.com/>

This field shall include the OPT prefix and a 2-digit number-- 01 to 99 inclusive-- indicating the particular option number. e.g. **OPT01, OPT02, OPT04**.

This field is to be used where there may be multiple 12d projects relating to different options or alternatives.

As with the <STG> field, if a particular development has multiple options, but the job only refers to a single option, this field may be omitted and the option included as part of the <DESCR> field. e.g. SAMPLE STREET OPTION 1.

**<TYPE>** A single word or abbreviation describing the discipline-specific nature of the project. A suggested list of common disciplines and their abbreviated TYPEs is given below.

TYPEs used should be one of those from the list below. If in doubt, consult your local 12d Champion for assistance in selecting a suitable <TYPE>.

Projects where the discipline is indiscrete at the conception should utilise the MULT type. Where projects are indentified as discrete discipline types (eg Survey), then the disicpline type should reflect this.

### Project Types

TYPE	DESCRIPTION
SURV	Survey
ROAD	Roads, highways, paths, etc.
RAIL	Rail
TUNL	Tunnel
DRAI	Drainage (Stormwater)
RIVR	Rivers and Waterways
WATR	Water mains and pipes
SEWR	Sewer mains and pipes
ERTH	Earthworks
DAM	Dams
VISU	Visualisation
PIPE	Pipework (generic)
SERV	Services
WETL	Wetlands
MARI	Marine
QTYS	Quantities
MULT	Multiple Discipline

If you have suggestions for additional types or changes to this list, please contact your local 12d Champion.

**<REV>** A three-character code-- REV-- followed by a two-digit number-- 01 to 99 inclusive-- indicating the current 12d project revision. e.g. REV01, REV03, REV99.  
 The default and initial <REV> value should be REV01.  
 Different revisions of a 12d project do not necessarily coincide with revisions of issued drawings.

### Notes:

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## 6.0 Tin Naming Convention

### 6.2 Tin Sharing

#### General Principles

As with model sharing, sharing tin data between 12d projects should be limited to live projects kept in common under the job's CADD folder. Refer Section 5.9

#### Terminology

Again, the terms "parent project" and "child project" are used respectively for the project from which the tins come, and the project into which the tins are brought

#### Relative Paths

As with Model Sharing, relative paths are the preferred way to share tins. Refer Section 5.9

#### Shared Tin naming

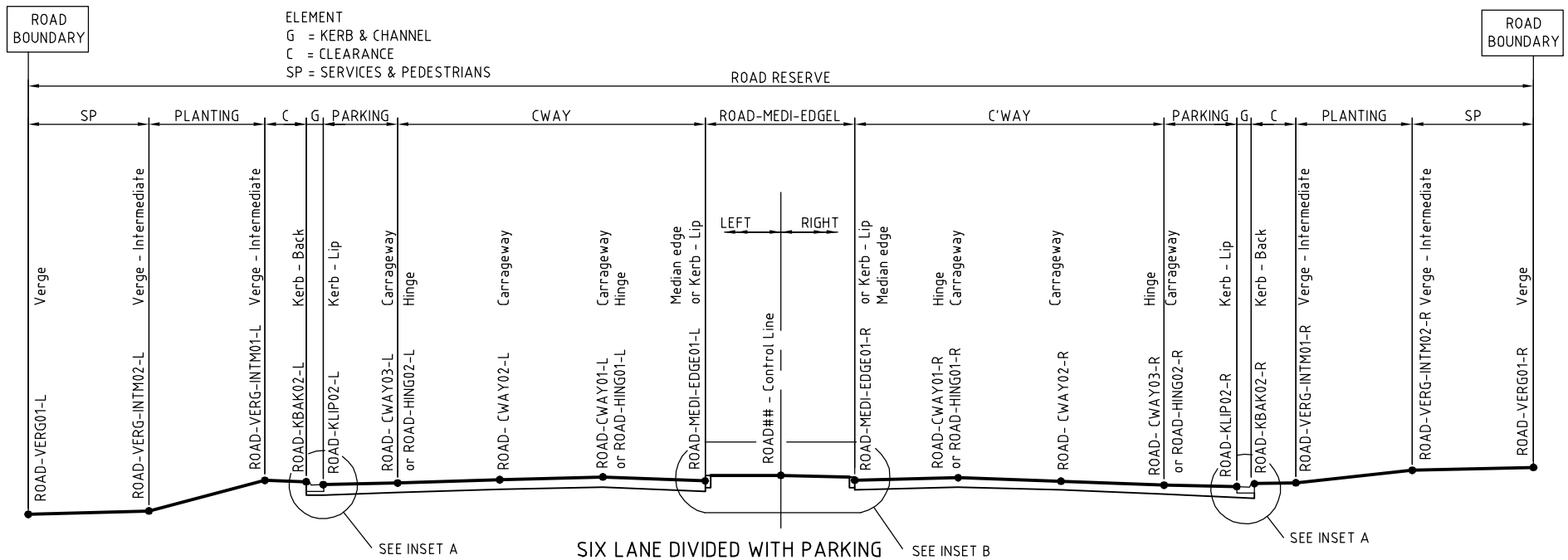
Tins shared from an external project maintain the same name as the original tin.

However the **Model** for the Shared tin follows essentially the same convention as for shared models. i.e.

**tin xref[NN] <EXTERNAL TIN NAME>**

The user is required to document the full folder and project name, that they are referencing, in the description file. NOTE: Once the shared models are created in the host project, these models are locked and cannot be renamed.

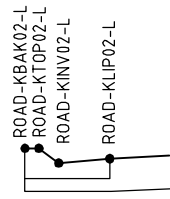
Note the different tin and model naming in the screen capture below.



ELEMENT  
 G = KERB & CHANNEL  
 C = CLEARANCE  
 SP = SERVICES & PEDESTRIANS

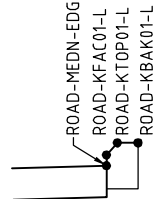
SIX LANE DIVIDED WITH PARKING

Kerb - Back  
 Kerb - Top  
 Kerb - Invert  
 Kerb - Lip

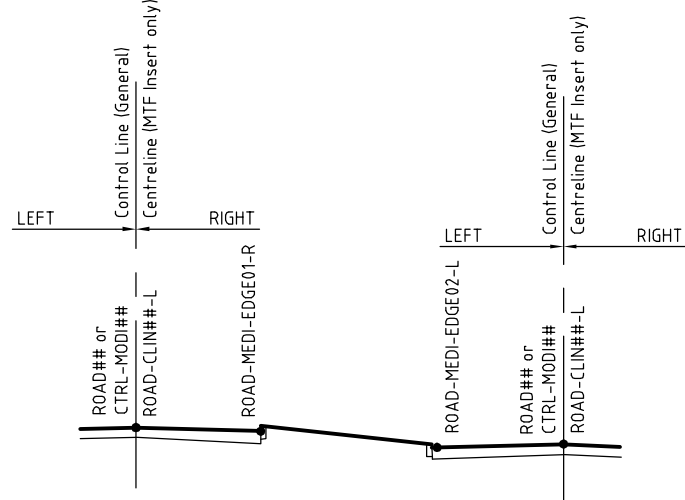


INSET A

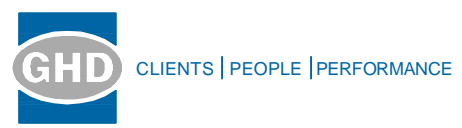
Median edge  
 Kerb - Lip  
 Kerb - Face  
 Kerb - Top  
 Kerb - Back



INSET B



INDEPENDENTLY ALIGNED ALTERNATIVE



GHD  
 12D User Manual  
 Standard Sections - Urban  
 Multi Lane with Parking  
 scale | NTS for A4 date | December 2007

job no. |  
 rev no. | B  
**Figure 06**