



COTTON BELT

# Cotton Belt Regional Rail

## CADD File Management Manual

September 2010



Prepared for Dallas Area Rapid Transit  
General Planning Consultant Managed by URS Corporation



COTTON BELT

# Cotton Belt Regional Rail

## CADD File Management Manual

September 2010

Draft Version 1

Prepared by URS Corporation



Prepared for Dallas Area Rapid Transit  
General Planning Consultant Managed by URS Corporation

## TABLE OF CONTENTS

<b>1.0</b>	<b>WORKSPACE (URS)</b> .....	<b>2</b>
<b>2.0</b>	<b>GEOPAK PROJECT MANAGER (URS)</b> .....	<b>2</b>
<b>2.1</b>	<b>*.PRJ</b> .....	<b>2</b>
<b>2.2</b>	<b>*.GPK</b> .....	<b>2</b>
<b>3.0</b>	<b>CADD FILES</b> .....	<b>2</b>
<b>3.1</b>	<b>File Location</b> .....	<b>2</b>
<b>3.2</b>	<b>File Naming Convention</b> .....	<b>2</b>
<b>3.3</b>	<b>Reference Files</b> .....	<b>3</b>
	3.3.1 Motif Files .....	3
<b>4.0</b>	<b>GEOPAK DATABASE</b> .....	<b>3</b>
<b>4.1</b>	<b>Geometry Naming Convention</b> .....	<b>3</b>
	4.1.1 EXISTING GEOMETRY .....	3
	4.1.2 PROPOSED GEOMETRY .....	4
<b>4.2</b>	<b>Input Files</b> .....	<b>6</b>
<b>5.0</b>	<b>FILE SHARING</b> .....	<b>6</b>
	<b>CONTACT LIST</b> .....	<b>6</b>

Filename and Path:

P:\DM\GPC 5\COTTON BELT\GEOPAK\Cotton Belt File Management Manual.doc

## 1.0 WORKSPACE (URS)

A MicroStation V8 workspace has been configured for the Cotton Belt Preliminary Engineering effort. Upon opening MicroStation V8 select the workspace called: **DM-CottonBelt PE**.

## 2.0 GEOPAK PROJECT MANAGER (URS)

### 2.1 \*.PRJ

The GEOPAK 2004 (version 08.08.03.24) Project Manager or \*.PRJ is located in the following folder: P:\DM\GPC 5\COTTON BELT\GEOPAK. It is called: **Cotton Belt PE.prj**.

This \*.PRJ establishes the following directory as the GEOPAK working directory: P:\DM\GPC 5\COTTON BELT\GEOPAK.

A generic user has been setup in this \*.PRJ for all to use. The generic user is called: User and the operator code for User is: 00.

### 2.2 \*.GPK

The project \*.GPK is located in the GEOPAK working directory. The GEOPAK job number for this \*.GPK is: **CB**. It is called: jobcb.gpk. This will be the only \*.GPK for the Cotton Belt Preliminary Engineering effort.

## 3.0 CADD FILES

### 3.1 File Location

Files will be located in the appropriate folder per DART CADD Guidelines.

Reference files will be located in the following root folder:

P:\DM\GPC 5\COTTON BELT\

Sheet file will be located in the individual segment folders:

P:\DM\GPC 5\COTTON BELT\CB1X-\DGN

P:\DM\GPC 5\COTTONBELT\CB2X-\DGN

P:\DM\GPC 5\COTTON BELT\CB3X-\DGN

### 3.2 File Naming Convention

File naming for all CADD files will follow the DART Drafting (CADD) Standards Manual. For the Cotton Belt Preliminary Engineering the following project codes will be used at the beginning of each CADD file:

CB1X	Segment 1 (DFW Airport to Trinity River)
CB2X	Segment 2 (Trinity River to Dallas North Tollway)
CB3X	Segment 3 (Dallas North Tollway to DART Red Line)

### 3.3 Reference Files

Reference files that encompass the entire alignment will be named using the CB1X prefix. The following are reference files that will include data for the entire corridor:

<u>File Name</u>	<u>Description</u>
CB1XTPR1.040	Existing Contours
CB1XTRP2.040	Existing Surface Features
CB1XRROW.040	ROW
CB1XBOR1.001	Border
CB1XUTR1.040	Existing Utilities

Other reference files will be separated into each segment to include information pertaining to that segment only and named according to the DART Drafting (CADD) Standards Manual with the corresponding segment prefix. The following are examples of reference file names:

#### Street Modifications

<u>File Name</u>	<u>Description</u>
CB1XSTR1.040	Street Modification Horizontal Geometry for Segment 1
CB2XSTR1.040	Street Modification Horizontal Geometry for Segment 2
CB3XSTR2.040	Street Modification Vertical Geometry for Segment 3

#### Rail Alignment and Profiles

<u>File Name</u>	<u>Description</u>
CB1XALR1.040	Proposed Horizontal Geometry for Segment 1 (Plan)
CB3XALR2.040	Proposed Vertical Geometry for Segment 3 (Profile)

#### 3.3.1 Motif Files

Motif files shall be created and controlled solely by URS. Motif files will be developed by URS for each discipline and segment as necessary. The following are examples of motif reference files:

<u>File Name</u>	<u>Description</u>
CB1XMALR1.040	Alignment Motif File for Segment 1
CB3XMUTR1.040	Utility Motif File for Segment 3

## 4.0 GEOPAK DATABASE

### 4.1 Geometry Naming Convention

The following is the naming convention to be used for all current and active horizontal and vertical geometry stored in GEOPAK:

#### 4.1.1 EXISTING GEOMETRY

<u>Horizontal</u>	<u>Vertical</u>	<u>Description</u>
CB1-EX	XCB1-EX	Existing Rail Alignment and Ground for Segment 1
CB2-EX	XCB2-EX	Existing Rail Alignment and Ground for Segment 2
CB3-EX	XCB3-EX	Existing Rail Alignment and Ground for Segment 3

## 4.1.2 PROPOSED GEOMETRY

**Base Line Track Alignments:**

<b><u>Horizontal</u></b>	<b><u>Vertical</u></b>	<b><u>Description</u></b>
CB1	XCB1	Proposed Passenger Rail Alignment for Segment 1
	CB1	Existing Ground Line along CB1 for Segment 1 Proposed Grade Line along CB1 Segment 1
CB1F	XCB1F	Proposed Freight Rail Alignment for Segment 1
	CB1F	Existing Ground Line along CB1F for Segment 1 Proposed Grade Line along CB1F Segment 1
CB1-EX	XCB1-EX	Existing Freight Rail Alignment for Segment 1
		Existing Ground Line along CB1-EX for Segment 1
CB2	XCB2	Proposed Passenger Rail Alignment for Segment 2
	CB2	Existing Ground Line along CB2 for Segment 2 Proposed Grade Line along CB2 for Segment 2
CB2-EX	XCB2-EX	Existing Freight Rail Alignment for Segment 2
		Existing Ground Line along CB2-EX for Segment 2
CB2F1	XCB2F1	Proposed Freight Track 1 Alignment for Segment 2
	CB2F1	Existing Ground Line along CB2F1 for Segment 2 Proposed Grade Line along CB2F1 for Segment 2
CB2F1A	XCB2F1A	Proposed Freight Track 1 Alignment Alternative A for Segment 2
	CB2F1A	Existing Ground Line along CB2F1A for Segment 2 Proposed Grade Line along CB2F1A for Segment 2
CB2F2	XCB2F2	Proposed Freight Track 2 Alignment for Segment 2
	CB2F2	Existing Ground Line along CB2F2 for Segment 2 Proposed Grade Line along CB2F2 for Segment 2
CB3	XCB3	Proposed Passenger Rail Alignment for Segment 3
	CB3	Existing Ground Line along CB3 for Segment 3 Proposed Grade Line along CB3 Segment 3
CB3-EX	XCB3-EX	Existing Freight Rail Alignment for Segment 3
		Existing Ground Line along CB3-EX for Segment 3
CB3F	XCB3F	Proposed Freight Rail Alignment for Segment 3
	CB3F	Existing Ground Line along CB3F for Segment 3 Proposed Grade Line along CB3F Segment 3

**Alternative Track Alignments:**

During initial development of Segment 3 various options will be developed and stored using A, B, C and 1, 2, 3 extension to the CB3 name. The ultimate Segment 3 geometry will be stored under CB3. The following naming convention will be used for alternatives in other segments as well.

<u>Horizontal</u>	<u>Vertical</u>	<u>Description</u>
CB3A		Proposed Passenger Rail Alignment Alternative A for Segment 3
	XCB3A	Existing Ground Line along CB3A for Segment 3
	CB3A	Proposed Grade Line along CB3A for Segment 3
CB3B		Proposed Passenger Rail Alignment Alternative B for Segment 3
	XCB3B	Existing Ground Line along CB3B for Segment 3
	CB3B	Proposed Grade Line along CB3B for Segment 3
CB3C		Proposed Rail Alignment Alternative C for Segment 3
	XCB3C	Existing Ground Line for Segment 3
	CB3C	Proposed Grade Line for Segment 3
CB3C1		Proposed Passenger Rail Alignment Alternative C-1 for Segment 3
	XCB3C1	Existing Ground Line along CB3C1 for Segment 3
	CB3C1	Proposed Grade Line along CB3C1 for Segment 3

**Spurs:**

<u>Horizontal</u>	<u>Vertical</u>	<u>Description</u>
S110, S111, etc		Proposed Spur Alignment for Segment 1
	XS110	Existing Ground Line for Spur 110 in Segment 1
	S110	Proposed Grade Line for Spur 110 in Segment 1
S210, S211 etc		Proposed Spur Alignment for Segment 2
	XS210	Existing Ground Line for Spur 210 in Segment 2
	S210	Proposed Grade Line for Spur 210 in Segment 2
S310, S311 etc		Proposed Spur Alignment for Segment 3
	XS310	Existing Ground Line for Spur 310 in Segment 3
	S310	Proposed Grade Line for Spur 310 in Segment 3

**Street Modifications:**

Street Modifications names will correspond to the name of the street the horizontal and vertical geometry defines.

<u>Horizontal</u>	<u>Vertical</u>	<u>Description</u>
COIT		Existing Coit Rd. Alignment
	XCOIT	Existing Ground Line along Coit Rd.
	COIT	Proposed Grade Line for Coit Rd.

## 4.2 Input Files

Input files will be stored as the horizontal and vertical geometry is developed. This will provide backup in the event of a corrupt \*.GPK as well as provide backup for previously developed alternatives. The following is an example of input file names for Segment 1:

<u>File Name</u>	<u>Description</u>
A-CB1-EX.inp	Existing Rail Alignment for Segment 1
P-XCB1-EX.inp	Existing Ground for Segment 1
A-CB1.inp	Proposed Passenger Rail Alignment for Segment 1
P-XCB1.inp	Existing Ground Line along Proposed Passenger Rail for Segment 1
P-CB1.inp	Proposed Passenger Grade Line for Segment 1
A-CB1F.inp	Proposed Freight Alignment for Segment 1
P-XCB1F.inp	Existing Ground Line along Proposed Freight for Segment 1
P-CB1F.inp	Proposed Freight Grade Line for Segment 1
A-CB3C1.inp	Proposed Passenger Alignment for Segment 3 Option C-1
P-XCB3C1.inp	Existing Ground Line along Proposed Passenger Rail for Segment 3 Option C-1
P-CB3C1.inp	Proposed Passenger Grade Line for Segment 3 Option C-1

Old input files shall be renamed to include the date as the suffix and moved to \\Dm-fps04\dm\_projects\GPC 5\COTTON BELT\GEOPAK\OLD INPUT FILES\

<u>File Name</u>	<u>Description</u>
A-CB3C1 2010-09-09.inp	Old Input File for CB3C1 Alignment, stored on Sept. 9, 2010

## 5.0 FILE SHARING

All files will be shared through Sharepoint.

Link: [http://www.urs-tx.com/sites/dart\\_GPC5/default.aspx](http://www.urs-tx.com/sites/dart_GPC5/default.aspx)

At latest, all files are to be uploaded every week on Friday before 5pm.

Further information on this section will be provided.

## CONTACT LIST

Don King  
Senior CAD Tech  
Direct: 214-672-2932  
Don\_king@urscorp.com

Janet Yeow, E.I.T  
Graduate Civil Engineer  
Direct: 214-672-2853  
Janet\_yeow@urscorp.com