

ALABAMA DEPARTMENT OF TRANSPORTATION

1409 Coliseum Boulevard, Montgomery, Alabama 36110



Joe McInnes Transportation Director

Bob Riley Governor

September 27, 2005

- To: Division Engineers Office Engineer Pre-Construction Engineers Consultant Management Engineer Construction Engineer
- From: Mr. Don Arkle Chief Design Engineer
- By: Adenrele Odutola AOO Roadway Design Engineer
- Re: Electronic Data for Takeoff Purposes

As a service to bidders, ALDOT is supplying electronic text files of point station, offset, and elevations for the data shown in the cross sections. These files depict the original ground, subgrade, and final grade in a text format. The department's intent in supplying this information is to facilitate bidding efforts and eliminate the step of contractors digitizing the plan cross sections for earthwork analysis in preparing their bids.

A compact disc (CD) with these text files will be required to be turned into Office Engineer along with the plans on all large earthwork projects (where the earthwork is equal or greater than 200,000 CY or a project longer than 2 miles that will require moving earthwork all over the length of the project.) The CD should contain the 3 text files: existing ground, subgrade, and final grade for each project. A procedure for generating these text files can be found on the ALDOT website path:

http://www.dot.state.al.us/Doc/Bureaus/Design/Design+Index.htm

AOO/LVS/sw

Attachments (2)

Pc: File

Process For Generating Cross Section .TXT Reports For Station/ Offset/ Elevation



1. In the **.DGN** file containing the cross section set you wish to generate a surface report on, load all the InRoads **.DTM** surfaces in the cross section set.

2. In the InRoads window choose Tools>Application Add-Ins.

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ARW Data Exchange Add-In Cart Editor Add-In	-	Cancel
Card/1 Translator Add-In		Help
CEAL Translator Add-In Create/Edit Components Add-In		
Cross Section Report Add In		
Design Checks Add-In		
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3. Make sure the "Cross Section **Report Add-In**" is Toggled.

4. Choose OK.

To	als Help
10	Reports
通	ML Reports
80	View XML Reports
비	Cross Section Report
	Tracking •
1	Symbology Manager
=	Preference Manager
6	Eeature Style Manager
×	Highlight All Pencil
+	Highlight All Ink
1-1	Convert Pencil to Ink
	Locks ·
	Run Macro
1	Application Add-Ins
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5. In the InRoads window choose **Tools>Cross Section Report**.

Process For Generating Cross Section .TXT Reports For Station/ Offset/ Elevation

loss Section Set	Anniston E Bypass 💌 🌩	Browpe
Surface:	AEB3_16.DTM -	Help
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Sections		
🗘 Al	Cross Sections:	
C Station Range	123+44.00	^
C Single from Gra	phic 125+00.00 128+00.00	~
Output		
Text to Screen	Include Features Only	
Text to File:		
Binary File:	(<u> </u>	

6. In the Cross Section Report Dialog box select the **Main** Tab and make sure the following parameters are set:

Cross Section Set: (select the set you wish to generate the .TXT report on)

Surface: (activate the **Existing Ground** .DTM you wish to generate the .TXT report on)

Horizontal Alignment: All

Output: Toggle only the Text to Screen

7. Click Apply.

Results		
Cross Section Report Results	^	Close
		Save As
Date: Monday, September 19, 2005 11:09:37 AM Surface Name: AEB3_16.DTM Alignment Name: 123+44.00 -200.00 843.47 123+44.00 -174.39 832.50 123+44.00 -164.55 828.25	E .	Append
		Display
		Print
123+44.00 -156.75 825.04 123+44.00 -155.41 824.74		Help
123+44.00 -149.52 824.54 123+44.00 -144.13 822.12		
L23+44.00 -142.07 820.28 L23+44.00 -139.07 820.16		
123+44.00 -132.49 821.13 123+44.00 -132.48 821.13		
123+44.00 -129.48 822.82 123+44.00 -127.10 824.25	-	
123+44.00 -115.70 824.15	>	

8. You should generate a report that looks similar to this one containing the **Station/ Offset/ Elevation** for the surface picked.

9. Choose **Save As** and make sure to save it **<name>.TXT**

Repeat this process for the **Subgrade** and **Finish Grade** for each roadway in the project.