

InRoads – Cross Section Gradebook Report

Cross Section Gradebook Report

Overview

The InRoads Cross Section Report, along with the WSDOT Cross Section Gradebook style sheet, can be a useful and quick alternative to the WSDOT staking report generation process. This document will describe how to generate a gradebook report from cross sections.

Workflow

Create Cross Sections

Generate a cross section set that contains standard and custom stations, intervals, etc.

Command: Evaluation > Cross Section > Cross Sections > Create Cross Sections

\bigcirc	Cross Sections				
61+10	<u>F</u> ile				
	Cross Section Set: RAMP_BLine	Mode: @<u>R</u>efresh (Start: 57+25.000	Display On Display Stop: 75+96.541		
	Create Cross Section	Set Name:	RAMP_BLine		
	General	Crea <u>t</u> e:	Window and Data 👻		
	Include	Inter <u>v</u> al:	100.000		
	Controls	Left Offset:	-100.000		
	Layout	<u>R</u> ight Offset:	100.000		
	Axes	Vertical Exaggeration:	2.0000		
	Details	Show Data Outside Elevation Range			
	Ascillor LandXML	Surfaces:			
	Update Cross Section	Object	Name		
	End-Area Volumes	Default	Default		
		R201_FinalExistin	g XS_SF_Existing XS_SF_Enrished		
			Xo_or _rmaned		

Add Staking Features

Add the features that you want to stake (i.e. **CL**, **EOP**, **SGS**, cut/fill, etc.) as crossing features. Command: *Evaluation* > *Cross Section* > *Cross Sections* > *Update Cross Sections*

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$\langle \langle \rangle$	Cross Sections						
11+10	File						
\square	Cross Section Set:	Mode: <u>R</u> e Start: 57+25	fresh (© <u>D</u> is 5.000	splayOn ⊚D Stop: 75+96.5	isplay O <u>ff</u> 41		
	Create Cross Section	Surface:					
	Annotate Cross Section Update Cross Section General Surfaces	Name			Description		
		Default IR201_FinalExisting					
	Crossing Features Projected Features Storm and Sanitary	RAMP_Bune	_Fin	Cre	ated from roadway de		
	📄 End-Area Volumes	reature:					
		Name	Style	Description			
		L_CUT	TP_CN_Cu	. Created by road	.		
		L_DB	DR_PP_Dit DR_PP_Dit	Created by road Created by road	l I	-	
		L_EPS_FIN	RD_ED_Sh.	Created by road	l		
		L_ETW_FIN	RD_ED_R	Created by road	l		
		L_ETW_MA	RD_ED_R	Created by road	l	-	

Cross Section Report

Generate a report on the cross section set.

Command: Evaluation > Cross Section > Cross Section Report

Select the surface on the *Main* tab and toggle on **Include Selected Features Only**.

Select the features that you have displayed in your cross section set.

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	Cross Section Repor	t	
	Main Slope Staking		
	Cross Section Set:	RAMP_BLine	•
"NOTEDIC TATEON"	Surfaces:		
	Name	Description	
9 59-37	IR201_FinalExisting		
	RAMP_BLine_Fin		Created from roadway de
	Include Selected F	Features Only:	
	Name	Style	Description
	CL_FIN	AL_HW_CL	inePSCreated by roadway
	L_CUT	TP_CN_Cut	LineNCreated by roadway
	L ETW FIN	RD ED Ro	adwa Created by roadway
	L_FILL	TP_CN_Fill	ineN Created by roadway
	L_SGS R_CUT	RD_ED_Su TP_CN_Cut	bgrad Created by roadway LineNCreated by roadway 🔻
	Include Componer	nts	Include Volumes

On the *Slope Staking* tab, select the **From Catchpoint** option and provide an offset range (i.e. -50 on the left and 50 on the right, depending on your corridor).

	Generate Slope Sta	ke Points		[<u>H</u> elp
TATHE COLLEGE	Slope Stake Points	Left		Right	
\sim	From Catchpoint:	-50.000		50.000	
	From Surface:	RAMP_BLine_Fin	*		
X*X -	Feature:	CL_FIN	+ +	CL_FIN	- +
COTAT FORMA					

Click Apply.

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Gradebook Stylesheet

The Bentley Civil Report Browser opens.

Select the WSDOT Cross Section Gradebook Wide Slopes.xsl stylesheet.

Evaluation
Evaluation Report Instructions xsl
WSDOT Accumulated Volumes xsl
WSDOT Cross Section All Features xsl
WSDOT Cross Section Gradebook Wide Slopes xsl
WSDOT Cross Section Gradebook Wide xsl
WSDOT Cross Section Gradebook xsl
WSDOT Cross Section Points List xsl
WSDOT Cross Section Profile List xsl
WSDOT Cross Section Slope Stake xsl
WSDOT Cross Section Slope xsl
WSDOT Cross Section Staking Table xsl
WSDOT Cross Section Staking xsl
WSDOT Cross Section Surfaces And Exceptions xsl
WSDOT Cross Section Survey Format xsl
WSDOT Cross Section xsl
WSDOT Cross Sections To CSV xsl
WSDOT Earthwork Quantities xsl

This report stylesheet presents the data in a gradebook format. This includes feature, slope and offset information.

Surface:	RAMP_BLine_	Fin				
Station:	57+25.0					
Elevation:	1985.8	2015.4	2015.2	2015.0	2014.7	2014.6
Offset:	-79.260	-20.000	-12.000	0.000	12.000	20.000
Feature:	L_FILL	L_EPS_FIN	L_ETW_FIN	CL_FIN	R_ETW_FIN	R_EPS_FIN
Slope:	-2.000:1	50.000:1	50.000:1		-50.000:1	-50.000:1

You can save the report in HTML format and open that file in Excel for post-processing.

For questions or comments on this tech note, contact your regional CAE Support Coordinator or the WSDOT CAE Help Desk at (360) 709-**8013**.