



Geopak Survey



8.3.1 WSPRO REPORT

- The WSPRO report takes cross section elements and turns them into an ASCII file in the WSPRO format (Station, Offset, Elevation) for use as input in the WSPRO hydraulic analysis program.

- At the top of the dialog, the Job number and Chain are required. GEOPAK determines the beginning and ending station within the MicroStation file and they are noted below the chain and placed in the key-in areas. If these defaults are utilized, the report is generated for the entire file. However, if a report for a smaller range is required, the user simply keys in the required beginning and/or ending station.
- The XS Elements group box is used to specify the search criteria for the cross section elements that are to be listed in this report. The designer may key in the required parameters, leaving the wide range of defaults where specific parameters are not needed. For example, if any weight is acceptable, then 0-15 can be utilized in the weight field. If no specific line style is needed, then 0-7 should be placed in the style field. The acceptable color range is 0-253.
- At the bottom of the dialog, you can specify the name of the ASCII file to be generated. The designer has the option of keying in the file name, or upon selection of the Files button, the Files dialog will appear, allowing the designer to select the desired file. The file will be placed in the current directory, unless a full path is specified. If the specified file name already exists, the file will be overwritten with no warning message given.
- When the dialog has been completed, simply select the Apply button to begin the report generation.



Geopak Survey



- **WSPRO OUTPUT (Wyoming Format):**

XS	36500				
GR		-176.94,390.30	-84.06,413.52	-64.06,418.52	-54.06,418.72
GR		-42.06,418.96	-30.06,418.72	-26.06,418.64	-4.06,414.64
GR		0.00,414.64	4.98,414.64	22.69,418.57	25.94,418.64
GR		29.94,418.72	41.94,418.96	53.94,418.72	63.94,418.52
GR		67.18,418.45	87.18,413.45	125.00,404.00	133.00,404.00
GR		137.61,405.54			
XS	36600				
GR		-159.77,393.22	-84.06,412.15	-64.06,417.15	-54.06,417.35
GR		-42.06,417.59	-30.06,417.35	-26.06,417.27	-4.06,413.27
GR		0.00,413.27	3.94,413.27	25.94,417.27	29.94,417.35
GR		41.94,417.59	53.94,417.35	63.94,417.15	83.94,412.15
GR		132.51,400.00	140.51,400.00	152.14,403.88	

8.3.2 STAKING DETAIL REPORT

- The STAKING DETAIL report determines the tie down point between the proposed finished grade and the existing ground. GEOPAK will list the right and left offset, elevation, slope of the finish for each cross section. To create this report, fill in the project information and desired cross section elements' parameters. Once complete, you have the choice between two formats, a FHWA ASCII report or a Montana DOT report (includes ditch elevations).

- At the top of the dialog, the Job number and Chain are required. GEOPAK determines the beginning and ending station within the MicroStation file and they are noted below the chain and placed in the key-in areas. If these defaults are utilized, the report is generated for the entire file. However, if a report for a smaller range is required, the user simply keys in the required beginning and/or ending station.
- The next section specifies the search criteria for the Existing Ground Line. The designer may key in the required parameters, leaving the wide range of defaults where specific parameters are not needed. For example, if any weight is acceptable, then 0-15 can be utilized in the weight field. If no specific line style is needed, then 0-7 should be placed in



Geopak Survey



the style field. The acceptable color range is 0-253. The user need only specify enough parameters to make them unique from non existing ground elements.

- The next section specifies the search parameters for the Proposed Finish Grade. As with the Existing Ground Line, only enough parameters to uniquely identify the Proposed Finish Grade are required. The default ranges may also be utilized.

- An option for processing sections one at a time can be utilized by activating the Pause on Each XS toggle at the bottom of the dialog. When activated, GEOPAK will process the first section, display the cross-section on the screen (within the limits of the cell), and display the station in the Current Sta display field located at the top of the dialog. The elements specified in the search criteria are also highlighted. To continue to the next cross-section, simply press the Apply button on the bottom of the dialog.

The screenshot shows the 'Staking Detail Report' dialog box. It includes fields for Job (573), Chain (RTE60), Cur Sta (365+00.00 R 2), Beg Sta (365+00.00 R 2), and End Sta (400+00.00 R 2). There are sections for 'Existing Ground Line' and 'Proposed Finish Grade', each with Level, Color, and Weight fields. A 'Pause on Each XS' checkbox is present, along with a 'Federal Highway Format' button. An 'ASCII File' field contains 'Staking Detail Report Fed High.out' and a 'File' button. An 'Apply' button is at the bottom.

- At the bottom of the dialog, you can specify the name of the ASCII file to be generated. The designer has the option of keying in the file name, or upon selection of the Files button, the Files dialog will appear, allowing the designer to select the desired file. The file will be placed in the current directory, unless a full path is specified. If the specified file name already exists, the file will be overwritten with no warning message given.

- When the dialog has been completed, simply select the Apply button to begin the report generation.

- The following is a fragment of the report generated with the dialog shown earlier in this section (note the Federal Highway output format is being utilized):

• **STAKING DETAIL OUTPUT (Federal Highway Format):**

Page# 1

STAKING DETAIL REPORT(Ft)												
STATION	Slope	Left Stake			ELEV	SUPER	ADJ.	SUPER	Right Stake			Slope
		C/F	DIST					ELEV.	DIST	C/F		
365+00.00 R 2	-4.00:1.	F 23.22	176.94	390.30	0.000	414.64	0.000	405.54	137.61	C 1.54	3.00:1.	
366+00.00 R 2	-4.00:1.	F 18.93	159.77	393.22	0.000	413.27	0.000	403.88	152.14	C 3.88	3.00:1.	
367+00.00 R 2	3.00:1.	C 9.88	198.19	401.88	0.000	412.24	0.000	398.43	134.72	F 12.70	-4.00:1.	
368+00.00 R 2	3.00:1.	C 6.79	174.26	401.79	0.000	411.57	0.000	392.07	157.46	F 18.38	-4.00:1.	
369+00.00 R 2	3.00:1.	C 4.93	163.25	401.89	0.000	411.25	0.000	395.94	143.37	F 14.05	-4.00:1.	
370+00.00 R 2	3.00:1.	C 3.09	153.47	401.62	0.000	411.00	0.000	402.09	117.60	F 7.60	-4.00:1.	
371+00.00 R 2	3.00:1.	C 2.02	148.40	400.82	0.000	410.70	0.000	400.28	119.53	F 8.90	-4.00:1.	
372+00.00 R 2	3.00:1.	C 3.03	152.78	402.13	0.000	410.40	0.000	399.91	118.70	F 8.69	-4.00:1.	
373+00.00 R 2	3.00:1.	C 1.51	147.13	400.91	0.000	410.10	0.000	400.71	115.35	F 7.85	-4.00:1.	
374+00.00 R 2	3.00:1.	C 0.73	143.59	400.43	0.000	409.80	0.000	402.09	109.86	F 6.48	-4.00:1.	
375+00.00 R 2	-4.00:1.	F 10.17	124.74	401.86	0.000	409.30	0.000	402.85	106.79	F 5.71	-4.00:1.	