## 场地设计

## 从调查档案创建一个站点模型

调查数据可以有多种格式。在这个视频中,我们将展示导入包含所需坐标信息的文本调查文件的过程。通常 ,这些调查文件包含限定的坐标信息。最常见的限定符是逗号或标签。但是也可以使用其他字符。

● ● ● Survey File.txt ~					P	Survey File.txt	
100,9072.609,20034.008,91.702,Side RD	1	00 90	72.609	20034.008	91.702	Side RD	
101,9072.264,20023.162,91.700,Side RD	ī	01 90	72.264	20023.162	91.700	Side RD	
102,9094.431,20033.345,92.371,Side DWY	1	02 90	94.431	20033.345	92.371	Side DWY	
103,9106.475,20037.901,93.080,Side DWY	1	03 91	06.475	20037.901	93.080	Side DWY	
104,9115.807,20045.032,94.038,Side DWY	1	04 91	15.807	20045.032	94.038	Side DWY	
105,9115.163,20050.551,94.479,Side DWY	1	05 91	15.163	20050.551	94.479	Side DWY	
106,9127.617,20048.151,94.662,Side DWY	1	.06 91	27.617	20048.151	94.662	Side DWY	
107,9132.510,20038.505,94.678,Side DWY	1	.07 91	32.510	20038.505	94.678	Side DWY	
109,9122.231,20019.958,93.534,Side RD	1	.09 91	22.231	20019.958	93.534	Side RD	
110,9153.539,20019.144,95.715,Side RD	1	.10 91	53.539	20019.144	95.715	Side RD	
111,9154.222,20030.027,96.193,Side RD	1	.11 91	54.222	20030.027	96.193	Side RD	
112,9181.495,20029.669,97.886,Side RD	1	.12 91	81.495	20029.669	97.886	Side RD	
113,9182.182,20016.076,97.748,Side RD\DWY	1	.13 91	82.182	20016.076	97.748	Side RD\DWY	
114,9212.710,20014.635,98.046,Side RD\DWY	1	.14 92	12.710	20014.635	98.046	Side RD\DWY	
115,9213.001,20028.130,98.274,Side RD	1	15 92	13.001	20028.130	98.274	Side RD	
116,9236.254,20028.693,98.379,Side RD	1	16 92	36.254	20028.693	98.379	Side RD	
117,9235.210,20022.081,98.531,Front RD	1	17 92	35.210	20022.081	98.531	Front RD	
118,9234.387,20016.746,98.357,S RD	1	18 92	34.387	20016.746	98.357	S RD	
119,9268.155,20014.926,98.238,S RD	1	.19 92	68.155	20014.926	98.238	S RD	
120,9268.806,20032.022,98.687,S RD	1	20 92	68.806	20032.022	98.687	S RD	
121,9293.302,20034.655,99.814,S RD	1	21 92	93.302	20034.655	99.814	SRD	
122,9309.564,20042.269,100.318,S RD	1	.22 93	09.564	20042.269	100.318	S KD	
123,9314.895,20051.559,100.880,S DWY	1	23 93	14.895	20051.559	100.880	S DWY	
124,9317.055,20065.176,101.492,S DWY	1	24 93	17.055	20005.1/0	101.492	S DWT	
125,9327.532,20064.783,101.415,S DWY	1	25 93	27.532	20004.783	101.415	S DWT	
126,9326.202,20045.842,100.847,S DWY	1	20 93	20.202	20043.842	100.047	C DD	
127,9325.337,20034.490,100.422,S RD	1	27 93	13 103	20034.490	00 670	C DD	
128,9313.192,20021.306,99.679,S RD	1	20 93	04 519	20021.300	09 014	S RD	
129,9294.518,20015.566,98.914,S RD	1	29 92	40.025	20013.300	00 207	FENCE	
130,9340,925,20007,348,99,207,FENCE	1	30 93	40.925	20007.340	55.207	PENCE	

在导入调查文件之前,必须确保只有文件中的行包含有效的调查数据。通常,这些文件将有页眉。第一行可 以是标题,或包含调查文件中的数据描述。该行或这些行应该在导入文件之前被删除。

Survey File.txt — Edited	
ID, NORTHING, EASTING, DESCRIPTION	
100,9072.609,20034.008,91.702,Side RD	
101,9072.264,20023.162,91.700,Side RD	
102,9094.431,20033.345,92.371,Side DWY	
103,9106.475,20037.901,93.080,Side DWY	
104,9115.807,20045.032,94.038,Side DWY	
105,9115.163,20050.551,94.479,Side DWY	
106,9127.617,20048.151,94.662,Side DWY	
107,9132.510,20038.505,94.678,Side DWY	
109,9122.231,20019.958,93.534,Side RD	
110,9153.539,20019.144,95.715,Side RD	
111,9154.222,20030.027,96.193,Side RD	
112,9181.495,20029.669,97.886,Side RD	
113,9182.182,20016.076,97.748,Side RD\DWY	
114,9212.710,20014.635,98.046,Side RD\DWY	
115,9213.001,20028.130,98.274,Side RD	
116,9236.254,20028.693,98.379,Side RD	
117,9235.210,20022.081,98.531,Front RD	
118,9234.387,20016.746,98.357,S RD	
119,9268.155,20014.926,98.238,5 RD	
120,9268.806,20032.022,98.687,5 RD	
121,9293.302,20034.655,99.814,5 RD	
122,9309.564,20042.269,100.318,5 RD	
123,9314.895,20051.559,100.880,5 DWY	
124,931/.055,20065.1/6,101.492,5 DWY	
125,9327.532,20064.783,101.415,5 DWT	
120,9320.202,20043.042,100.047,5 DWT	
12/ 3223 33/ 20034 490,100.422,3 KU	
120,9313,192,20021,300,99,079,3 KD	
125,52541510,200151500,501514,5 ND	

一旦文件处理好后,就可以导入到Vectorworks文档。如果您使用Landmark(景观版),请转到 "Landmark(景观版)>调查输入>导入调查文件"。如果使用Architect(建筑版),转到"AEC > 调查 输入 > 导入调查文件"。

	Landmark Tools Text Window H	elp	AEC Tools Text Window H	Help	
	Create New Plant VW Plants Database Choose VW Plants Change Plant Grouping Plant Line Vegetation Line	tled 6	Pillar Floor Roof Face Create Roof Create Auto Hybrid Create Objects from Shapes		
	Create Objects from Shapes Survey Input Create Site Model Simplify 3D Polygons Validate 3D Data	Import Survey File 2D Polys to 3D Contours 3D Polys to 3D Loci Grid Method Entry	Fit Walls to Objects Create Polys from Walls Space Planning gbXML Dimension Exterior Walls		
Create Grade Limits from Pad Create Pad from Grade Limits Site Model Section Create Retaining Wall Site Modifier			Create Wall Projection Create Wall Recess Create Stepped Wall		
	Send to Surface		Terrain  Survey Input	Import Survey File	
Zone of Visual Influence Create Site Model Volume List Create 3D Loci at Grade Points Roads			IFC Data IFC Zones	2D Polys to 3D Contours Grid Method Entry	
			Create Seating Layout		
			Electrical		
	Machine Design		Machine Design		

选择调查文本文件并选择打开。"导入调查文件"对话框将打开。在这里您可以查看调查文件的数据。您可以循 环查看每一行数据。使用此方法确保数据格式正确。

Import Survey File
Data from selected file:
100,9072.609,20034.008,91.702,Side RD
< Line: 1 >
File format
Easting, Northing, Elevation (X, Y, Z) ᅌ
Units: Meters
Field separator
◯ Tab delimited
Other character ,
Import Options
• Create Stake Objects
Create 3D Locus Objects (imports only location)
Cancel
Cancer

接下来,我们需要选择文件格式。Vectorworks程序允许导入以下格式的调查文本文件:东、北、高度(X, Y,Z)——此格式先有X值,然后Y值,最后Z值。北、东、高度(Y,X,Z)——此格式类似第一个列出的文 件格式,只是先有Y值。ID、东、北、高度、说明——此格式先有ID,然后是x值、Y值和Z值,最后以说明结 束。最后一种是ID、北、东、高度、说明——此格式和前面的相同,只是Y值列在x值之前。 在"字段分隔符"部分,选择调查文件所用的分隔符。您可以使用对话框顶部的数据预览来确定所使用的分隔符。

最后,我们需要选择是否创建桩对象或三维轨迹对象。桩对象能够显示坐标数据,但是如果导入大量的桩对象 ,可能会导致效率表现问题。如果是想要创建场地模型,那么三维轨迹点更可取。

单击确定后,三维轨迹点将在文件中生成。这些对象被创建在由调查文件中的数据所确定的位置上。所以您可 能不会马上看到这些对象。若要快速调整视图查看些对象,使用**"**视图**"**菜单中的**"**适合对象**"**命令。



## 这里是我们的三维轨迹点,如果切换到三维视图,可以看到这些点有Z高度集。



现在我们只需要把三维轨迹对象变成场地模型。简单来说,选择所有的点,转到**Landmark**(景观版)菜单并选 择**"**创建场地模型**"**。

只需接受"场地模式设置"对话框中的默认设置,Vectorworks程序就会从轨迹点生成场地模型。

经过这些简单步骤,您可以快速地在Vectorworks程序中从任何兼容文本调查文件创建功能场地模型。

