

Overview

SCDOT Preconstruction Design Memorandum No. 8 requires the development of a Survey Control Data Sheet by a South Carolina Professional Surveyor in responsible charge of each preconstruction survey project.

The intent of the Survey Control Data Sheet is:

1. Preserve information related to the location of property corner monuments found during the field survey.

2. Clearly define the Datum used to establish the project survey control.

3. Provide information which can be used efficiently to re-establish individual property corner monuments.

4. Provide project survey control coordinate and elevation information to be used during construction.

The SCDOT Preconstruction Survey department produces a survey report for each individual project which includes detailed project mapping information. Microsoft Excel software is used to develop this report and the Survey Control Data Sheet is included within this spreadsheet format. These instructions are intended to provide the steps necessary to develop the final Survey Control Data Sheet in a PDF format which can then be sign and sealed by the licensed surveyor.

The individual surveyor may decide to use another method of generating the Survey Control Data Sheet outside of the supplied SCDOT Survey Project Report spreadsheet.

Instructions

The SCDOT file used to develop the Survey Control Data Sheet: Survey_Project_Report_ver15.8.xlsm

The final Survey Control Data Sheet naming convention to be used: 40479_SCDS_5A.pdf

Project ID Number

file revision number

Within the SCDOT Survey Project Report spreadsheet there are (2) options available to create the Survey Control Data Sheet(s).

- 1. Automated Process (Pages 1-10)
- 2. Printing Survey Control Data Sheet as a PDF (Pages 10-14)
- 3. Manual Process (Pages 14-21)

Automated Process

The Survey Project Report spreadsheet organizes the survey project task information by the use of "tabs" located at the bottom of the spreadsheet (Figure 1).





Figure 1

Tabs:

- 1. Summary
- 2. Comments
- 3. Datum
- 4. Datum Desc
- 5. Alignment
- 6. Control
- 7. Benchmark
- 8. Property Monuments
- 9. New
- 10. Utility
- 11. Property Research
- 12. RW
- 13. SCDS 5A thru SCDS 5D
- 14. Blank_Data
- 15. SCDS 5A Blank thru SCDS 5D Blank



Tabs used to auto create the Survey Control Data Sheet(s) are listed below:

Summary, Datum, Control, Benchmark, Property Monuments and SCDS 5A thru SCDS 5D.

The steps below list the <u>minimum</u> information needed if the only goal is to use the spreadsheet to auto create the Survey Control Data Sheet.

Step 1 (Summary Tab)

Populate information fields found on *Summary* Tab (Figure 2).





Step 2 (Summary Tab—Importing Data)

Excel VBA macro's have been used to automate the import of <u>excel .csv</u> files which include the data for the project *survey control, benchmarks* and *property monuments found* (Figure 2). The format of these .csv files are shown in (Figure 3).

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3	S-107 Alligator Rd	71+35.41	-89.98	843573.10	2339826.24	RWM
4	S-107 Alligator Rd	71+55.91	-135.82	843621.27	2339840.41	RWM
5	S-107 Alligator Rd	74.04	1852.30	843464.80	2331514.43	IP
6	S-107 Alligator Rd	92.96	1545.37	843661.25	2331812.98	IP
7	S-107 Alligator Rd	64.85	1415.56	843721.81	2331985.75	IP
8	S-107 Alligator Rd	59.99	1106.86	843865.48	2332397.37	IP
9	S-107 Alligator Rd	00+13.71	931.73	843946.95	2332630.93	IP
10	S-107 Alligator Rd	41.27	1108.19	843812.10	2332504.54	IP
11	S-107 Alligator Rd	01+46.66	916.44	843902.77	2332757.26	IP
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13	S-107 Alligator Rd	04+27.56	634.39	844034.20	2333133.00	IP
14	S-107 Alligator Rd	05+69.46	493.23	844099.41	2333322.24	IP
15	S-107 Alligator Rd	25+79.38	-1344.56	844970.46	2335810.45	IP

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4		3 US	176	13+7	0.51		-30.96	8398	26.6007	192	8970.55	31	349	.10 (P 3 8in	. SPIKE	NAIL	
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6		5 US	176	31+4	4.43		-18.83	8413	24.5776	192	8054.02	76	391	.66 (P 5 8in	. SPIKE	NAIL	
7		6 US	176	39+2	5.09		53.66	8420	96.5346	192	7894.92	03	378	.51 (P 6 8in	. SPIKE	NAIL	
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2	104	US 176	07+3	39.28	5	8.61	839420	.1072	1929461	.7176	325.6	69	BM 1 NA	IL IN	BASE OF	PP		
3	105	US 176	21+:	15.10	-4	7.75	840371	.2487	1928458	1.1744	363.4	42	BM 2 NA	IL IN	BASE OF	: pp		
4	106	US 176	36+3	31.03	1	7.78	841802	.0500	1927953	.3300	388.4	43	BM 3 PK	NAIL	IN CHE	RON P	NEL #	167
5	107	US 176	49+	12.33	-5	0.27	842837	.5217	1927206	5520	344.0	09	BM 4 NA		BASE OF	· PP		
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Figure 3: Property / Control / Benchmarks

Below are the data categories of each .csv file shown in Figure 3.

<u>Property</u>: Alignment—Station—Offset—Northing– Easting– Description.

<u>Control</u>: Point ID–Alignment– Offset– Northing– Easting– Elevation– Description.

Benchmark: Point ID–Alignment– Offset– Northing– Easting– Elevation– Description.

The destination of the data imported through the macro's listed above will be for the corresponding *Control, Benchmark and Property Monuments* tabs.

Step 2A Select the "Control" macro button.



Step 2B Select the control.csv file.

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🥽 Libraries	a040479 US176.new	10/21/2013 9:35 AM	NEW File	550 KB
Documents	42321 alignment report.TXT	1/26/2015 12:00 PM	Text Document	191 KB
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Videos				
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Step 2C Choose "Delimited" then "Next"

Text Import Wizard - Step 1 of 3
The Text Wizard has determined that your data is Fixed Width.
If this is correct, choose Next, or choose the data type that best describes your data.
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Fixed width - Fields are aligned in columns with spaces between each field.
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1 SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
2 Project Survey Report
3 S.C. Route Unknown County
4 Mon Jan 26 11:59:47 2015
Cancel < Badk Next > Finish

Step 2D Select "Comma" then "Next"

Text Import Wizard - Step 2 of 3	? X
This screen lets you set the delimiters your data contains. You can see how your text is affected in below.	n the preview
Delimiters	
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* SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION	
* Project Survey Report	
ROAD County:	
Cancel < <u>B</u> ack <u>N</u> ext >	<u> </u>



Step 2E Select "General" and then Select "Finish"

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This screen lets you select each co	umn and set the Data Format.
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Step 2F Select "No"

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The survey control data should now be populated on spreadsheet tab "Control".

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11	1	US 176	41.49	6.75	838583.7682	1930152.9336	356.01	CP 1 5/8 in. RB			-30.04	0.9998147
12	2	US 176	05+25.15	18.67	839234.8769	1929576.3385	333.42	CP 2 5/8 in RB			-30.04	0.9998160
13	3	US 176	13+70.51	-30.96	839826.6007	1928970.5531	349.10	CP 3 8In. SPIKE NAIL			-30.04	0.9998155
14	4	US 176	23+14.96	-33.97	840545.1083	1928350.7405	369.16	CP 4 8in. SPIKE NAIL			-30.04	0.9998148
15	5	US 176	31+44.43	-18.83	841324.5776	1928054.0276	391.66	CP 5 8in. SPIKE NAIL			-30.04	0.9998141
16	6	US 176	39+25.09	53.66	842096.5346	1927894.9203	378.51	CP 6 8in. SPIKE NAIL			-30.04	0.9998150
17	7	US 176	48+35.81	22.08	842826.8556	1927334.5681	343.45	CP 7 8in. SPIKE NAIL			-30.04	0.9998170
18	8	US 176	55+62.34	32.10	843199.9712	1926704.2575	364.53	CP 8 5/8 in. RB			-30.04	0.9998161
19	9	US 176	62+09.56	-10.09	843334.8576	1926068.1140	366.39	CP 9 5/8 in. RB			-30.04	0.9998161
20	10	US 176	36+31.03	17.78	841802.0500	1927953.3300	388.43	CP 10 PANEL 67			-30.04	0.9998144
21	11	US 176	30+33.91	-17.79	841218.7400	1928085.8800	390.50	CP 11 PANEL 68			-30.04	0.9998141
22	12	US 176	39+69.50	334.21	842249.4780	1928135.1297	369.17	CP 12 MAG NAIL			-30.04	0.9998155
23	13	US 176	35+20.98	597.76	841858.2924	1928540.9751	373.23	CP 13 8in.SPIKE NAIL			-30.04	0.9998152
24	14	US 176	29+56.06	465.43	841278.8874	1928571.6205	366.53	CP 14 8in. SPIKE NAIL			-30.04	0.9998153
25	15	US 176	24+20.18	/53.98	841026.2200	1928980.3100	365.00	CP 15 PANEL 69			-30.04	0.9998152
20	10	05 176	20133.23	-342.00	841059 8447	1927914.2340	370.37	CP 10 6IN, SPIKE NAIL			-30.04	0.9996144
2/	18	US 176	36+97.66	-501.12	841721 1611	1927/36 /669	365.86	CP 17 OIL SPIKE NAIL			-30.04	0.9996140
20	19	US 176	46+57.52	-882.60	842075 6200	1926813 6300	357.92	CP 10 DIII. SPIKE NAIL			-30.04	0.9998155
30	20	US 176	37+72 91	927.60	842210 0009	1928781 6218	353 21	CP 20 8in SPIKE NAII			-30.04	0.9998163
31	21	US 176	28+09.79	-496.15	840852,8666	1927695.8479	377.87	CP 21 8in SPIKE NAII			-30.04	0.9998145
32	22	US 176	27+72.16	-1013.40	840636.3310	1927223.2609	388.18	CP 22 8in SPIKE NAII			-30.04	0.9998140
33	23	US 176	34+13.83	-207.40	841530.6215	1927797.7424	370.86	CP 23 8in. SPIKE NAIL			-30.04	0.9998151
34	24	US 176	31+87.43	221.87	841433.0641	1928273.1503	371.64	CP 24 8in. SPIKE NAIL			-30.04	0.9998151



Step 2G

Repeat steps 2A thru 2F for the Benchmarks and Property data.

BENCHMARK LIST	YES	Benchmarl	BENCHMARKS
PROPERTY PIN LIST	YES	Property Pins with station & offsets Property	PROPERTY

Step 2 Alternate Automatic Method (Manual data copy/past)

As an option, the <u>.csv</u> data can be copied from an excel spreadsheet and pasted to the corresponding spreadsheet *Control, Benchmark and Property* tabs.

Verify Cell format of copied data is correct before pasting.

1. Control Tab - Begin pasting data into cell A10

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					ROAD/	ROUTE:						
					PIN / F	PRJ ID:					Calculate Avereage Geoid	CSF for reference only.
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5	Point	Alignment	Station	Offset	Northing	Easting	Elev	Desc	1		Average Geoid (meters)	Combined Scale Facto
1	1	US 176	41.49	6.75	838583.768	2 1930152.9336	356.01	CP 1 5/8 in. RB			-30.04	0.9998147
	2	US 176	05+25.15	18.67	839234.8769	1929576.3385	333.42	CP 2 5/8 in RB			-30.04	0.9998160
	3	US 176	13+70.51	-30.96	839826.6007	1928970.5531	349.10	CP 3 8in. SPIKE NAIL			-30.04	0.9998155
	4	US 176	23+14.96	-33.97	840545.1083	1928350.7405	369.16	CP 4 8in, SPIKE NAIL			-30.04	0.9998148
	5	US 176	31+44.43	-18.83	841324.5776	1928054.0276	391.66	CP 5 8in. SPIKE NAIL			-30.04	0.9998141
I	6	US 176	39+25.09	53.66	842096.5346	1927894.9203	378.51	CP 6 8in. SPIKE NAIL			-30.04	0.9998150
e.	7	US 176	48+35.81	22.08	842826.8556	1927334.5681	343.45	CP 7 8In. SPIKE NAIL			-30.04	0.9998170
	8	US 176	55+62.34	32.10	843199.9712	1926704.2575	364.53	CP 8 5/8 in. RB			-30.04	0.9998161
	9	US 176	62+09.56	-10.09	843334.8576	1926068.1140	366.39	CP 9 5/8 in. RB			-30.04	0.9998161
	10	US 176	36+31.03	17.78	841802.0500	1927953.3300	388.43	CP 10 PANEL 67			-30.04	0.9998144
	11	US 176	30+33.91	-17.79	841218.7400	1928085.8800	390.50	CP 11 PANEL 68			-30.04	0.9998141
I.	12	US 176	39+69.50	334.21	842249.4780	1928135.1297	369.17	CP 12 MAG NAIL			-30.04	0.9998155
	13	US 176	35+20.98	597.76	841858.2924	1928540.9751	373.23	CP 13 8in.SPIKE NAIL			-30.04	0.9998152
	14	US 176	29+56.06	465.43	841278.8874	1928571.6205	366.53	CP 14 8in. SPIKE NAIL			-30.04	0.9998153
5	15	US 176	24+20.18	753.98	841026.2200	1928980.3100	365.00	CP 15 PANEL 69			-30.04	0.9998152
4	16	US 176	26+35.29	-342.86	840709.7686	1927914.2540	378.97	CP 16 8in. SPIKE NAIL			-30.04	0.9998144
4	17	US 176	30+24.98	-559.80	841058.8447	1927567.9175	377.81	CP 17 8in. SPIKE NAIL			-30.04	0.9998146
4	18	US 176	36+97.66	-501.12	841721.1611	1927436.4669	365.86	CP 18 8in. SPIKE NAIL			-30.04	0.9998155
3	19	US 176	46+57.52	-882.60	842075.6200	1926813.6300	357.92	CP 19 PANEL 66			-30.04	0.9998160
4	20	US 176	37+72.91	927.60	842210.0009	1928781.6218	353.21	CP 20 8in SPIKE NAIL			-30.04	0.9998163
	21	US 176	28+09.79	-496.15	840852.8666	1927695.8479	377.87	CP 21 8in SPIKE NAIL			-30.04	0.9998145
2	22	US 176	27+72.16	-1013.40	840636.3310	1927223.2609	388.18	CP 22 8in SPIKE NAIL			-30.04	0.9998140
8	23	US 176	34+13.83	-207.40	841530.6215	1927797.7424	370.86	CP 23 8in. SPIKE NAIL			-30.04	0.9998151
1	24	US 176	31+87.43	221.87	841433.0641	1928273.1503	371.64	CP 24 8in. SPIKE NAIL			-30.04	0.9998151
5				_							-30.04	1.0004044

- 2. Benchmark Tab Begin pasting data into cell A10
- 3. Property Monuments Tab Begin pasting data into cell A10

Step 3 (Datum Tab)

The Datum Tab is used to describe the project survey datum (Figure 4). This information will be used to auto fill the datum description on the Survey Control Data Sheet.

This step is very important for many reasons. The most obvious being the fact that the project development process can take one or more years from the initial survey to construction and this tab will represent the final record of the project control datum to be used during construction. The less obvious reason (but no less important) is this datum will be reference by many surveyors in the future for retracement purposes of the property monuments listed and is an integral and necessary component to this retracement process.



1	Surve	y Datum					
2	SURVEY GRO	UP: LEXINGTON					
3	ROAD/RC	OUTE: US 176					
4	PIN / PR.	JID: 40478					
5	CHARG	E CODE:					
6	COUNTY	: Newberry					
7	MONTH / YEAR CONTROL SET:	1-1-17					
9	SCSP GRID DATUM:						
10	SCSP LOCALIZED DATUM:	X	←	PLACE AN	PLACE AN "X" BESIDE THE		
11	ASSUMED DATUM:			COM			
13	DATUM & ADJUSTMENT:	NAD83(2011)					
14	LOCALIZATION POINT:	CP 1					
15	NORTHING:	838583.7682					
16	EASTING:	1930152.9340					
17	ELEV:	356.10					
18	CSF:	0.99981470					
19							
20	VERT DATUM:	NAVD88					
21	BENCHMARK REFERENCE:	CP 1					
22	ELEVATION:	356.10					
23							

Figure 4

The "Datum Desc" tab (Figure 5) can be used for reference when choosing the correct selection for:

- 1. SCSP Grid Datum
- 2. SCSP Localized Datum
- 3. Assumed Datum



Figure 5



Step 4 (Survey Control Data Sheet Tab)

The total number of control points, benchmarks and property monuments will dictate the total number of Survey Control Data Sheets which will be needed for the project. Four (4) sheets have been formatted for this purpose: *SCDS 5A, SCDS 5B, SCDS 5C and SCDS 5D*.

The auto import or alternate manual copy paste listed in step 2 above will automatically place the data in order on these (4) sheets (Figure 6).

If sheets *SCDS 5A, SCDS 5B, SCDS 5C and SCDS 5D* do not appear formatted as shown in (Figure 6), see page 10 (Step 5) for page setup instructions.



Figure 6

Step 4A

Verify that the correct County/Project ID and Road No. was entered on the Summary Tab.

				2 6	Neu	de anno 1	40.470	116 17/	
				3 30	New	berry	40478	03 178	_
		PR	OJECT E	BENCHMA	RKS				
POINT ID	ALIGNMENT	STATION	OFFSET	NORTHING	EASTING	ELEV.	DESCRIP	TION	
104	US 176	07+39.28	58.61	839420.1072	1929461.7176	325.69	BM 1 NAIL IN B	ASE OF PP	
105	US 176	21+15.10	-47.75	840371.2487	1928458.1744	363.42	BM 2 NAIL IN B	ASE OF PP	
106	US 176	36+31.03	17.78	841802.0500	1927953.3300	388.43	BM 3 PK NAIL IN	CHEVRON	
107	US 176	49+42.33	-50.27	842837.5217	1927206.9274	344.09	BM 4 NAIL IN B	ASE OF PP	
108	US 176	59+71.26	45.22	843325.0968	1926312.5520	368.83	BM 5 NAIL IN B	ASE OF PP	



Step 4B

Enter Project Description (example: "US 176") and verify Datum Description is correct.

SCE	SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION PROJECT DES		Y CONTROL DATA
	US 17	6	
	DATUM DESC	CRIPTION	-
The LOCALIZED Coordina State Plane Coordinat Primary Survey Cont	te System developed for this te System used to establish t trol point number CP 1 with c nbined Scale Factor (CSF) (g	project is base he Localization Northing of 838 round to arid) is	d on NAD83(2011) South Caroling Point. The Localization Point is 583.7682 and an Easting of 0.99981470. Elevations for this

Step 4C

Complete Date of Survey and any notes needed to complete the Survey Control Data Sheet.

1. The alignment Station and Offset are referenced to the existing Survey Centerline. 2. Date of Survey: The Property Monuments Found listed on this sheet are assumed to be property corner monuments, field located during the course of this survey. The Department makes no claim that these located monuments are the true position of any property and takes no responsibility for this information being used as such. These monuments are tied to the control of this project in an effort to document and preserve their location in the event they are disturbed or destroyed during the	NOTES:	
The Property Monuments Found listed on this sheet are assumed to be property corner monuments, field located during the course of this survey. The Department makes no claim that these located monuments are the true position of any property and takes no responsibility for this information being used as such. These monuments are tied to the control of this project in an effort to document and preserve their location in the event they are disturbed or destroyed during the	The alignment Station and Offset are referenced to the existing Survey Centerline. Date of Survey:	
The Property Monuments Found listed on this sheet are assumed to be property corner monuments, field located during the course of this survey. The Department makes no claim that these located monuments are the true position of any property and takes no responsibility for this information being used as such. These monuments are tied to the control of this project in an effort to document and preserve their location in the event they are disturbed or destroyed during the		
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the course of this survey. The Department makes no claim that these located monuments are the true position of any property and takes no responsibility for this information being used as such. These monuments are tied to the control of this project in an effort to document and preserve their location in the event they are disturbed or destroyed during the	e Property Monuments Found listed on this sheet are assumed to be property corner monuments, field located during	
property and takes no responsibility for this information being used as such. These monuments are tied to the control of this project in an effort to document and preserve their location in the event they are disturbed or destroyed during the	e course of this survey. The Department makes no claim that these located monuments are the true position of any	
project in an effort to document and preserve their location in the event they are disturbed or destroyed during the	operty and takes no responsibility for this information being used as such. These monuments are tied to the control of this	
	oject in an effort to document and preserve their location in the event they are disturbed or destroyed during the	

Step 5 (Printing Survey Control Data Sheet as a PDF)

In order to print the Survey Control Data Sheet as a pdf document, several settings need to be verified.

Step 5A (Paper Size)

A custom 22" x 36" paper size must be created to meet the SCDOT's standard paper size for full size plots.

Select "Printers and Scanners" from the Windows menu (Figure 7).



Printers & scanners	Printers & scanners	ଜ Adobe PDF
Add printers & scanners + Add a printer or scanner	Add printers & scanners + Add a printer or scanner	Manage your device Printer status: Default
Printers & scanners	Printers & scanners Adobe PDF Default	Open print queue Set as default Print a test page
ARX CoSign	Open queue Manage	Run the troubleshooter
Li Bluebeam PDF	ARX CoSign	Printer properties Printing preferences
rigure /	rigure 8	Hardware properties

Figure 8a

Step 5B

Select "Adobe PDF" or equivalent PDF printer (Figure 8).

Select "Manage" (Figure 8).

Select "Printer preferences" (Figure 8a).

Step 5C

Select the "Add" button for Adobe PDF Page Size (Figure 9).

(Adobe PDF Printing Preferences
	Layout Paper/Quality Modeb PDF Settings Adobe PDF Conversion Settings Use these settings to create Adobe PDF documents suitable for reliable viewing and printing of business documents. Created PDF documents can be opened with Acrobat and Adobe Reader 6.0 and later.
	Default Settings: Standard Create user definition of the setting o
	OK Cancel Apply

Figure 9

Step !	5D
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Type "SCDOT Surveys 22x36" in "Paper Names" field.

Enter 22.0 for Width and 36.0 for Height.

Select "Add/Modify" button (Figure 10).

Select "OK".

Add	I Custom Paper Si:	ze	latings
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	Height	36.0	 Millimeter Point
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Step 5F

Select "Page Layout" from excel spreadsheet (Figure 11).

Then Select "Custom Margins" to setup up page margins.



? ×

Step 5G

Select "Landscape", "99%", and "SCDOT Surveys 22x36" on

Page tab (Figure 12).

Step 5H

Enter margin values as shown in (Figure 13).

Select "OK".

? × Page Setup Page Margins Header/Footer Sheet Orientation <u>Landscape</u> O Portrait Å A Scaling Adjust to: 99 🜲 % normal size page(s) wide by 1 ≑ tall O Fit to: Paper size: SCDOT Surveys 22x36 \sim Print guality: 1200 dpi Fi<u>r</u>st page number: Auto Print Preview Print... Options... OK Cancel Figure 12

Step 5I

Select the Survey Control Data Sheet to be printed (Figure 14).







Page Setup



Step 5J

Select "File" (Figure 15A) and "Save As" (Figure 15B).







Figure 15B

Project ID Number

Step 5K

Save PDF file (Figure 16) using naming convention as described on page 1: 40479_SCDS.pdf



Figure 16



If Borders of sheet are not correct when viewing the PDF, then select the "View" menu on spreadsheet. Select "Page Break Preview" (Figure 17) and manually move page break line to border edge.)

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-10	07 Alligator Rd 07 Alligator Rd	65+02.31 72+6138	-33.28	843049.74	2339207.03	BVM BVM		2	S-107 Alligator Rd S-107 Alligator Rd	8.3500	373.33	844364.6809	*********	143.74	CP PSC 1 CP PSC 2	104	5	US 176 US 176	07+33.28 21+15.10	50.61	833420.1072 840371,2487	1323461,7180	363.63	BM 1 NAL IN BASE OF PP BM 2 NAIL IN BASE OF PP
-10	07 Alligator Rd	71+35.41	-89.98	843573.10	2339826.24	RVM		3	S-107 Alligstor Rd	13+35.41	-967.43	844792.5599	2005242.2010	141.33	CP MSC 3	106		US 176	36+31.03	17.78	841802.0500	1927953.3300	388.43	BM 3 PK NAIL IN
-10	07 Alligator Rd	71+55.31	-135.82	843621.27	2333840.41	BVM		4	S-107 Alligator Rd	26+05.70	18.34	843676.4384	2335373.3580	142.64	CP MSC 4	101	1	US 176	43+42.33	-50.27	842837.5217	1927206.9270	344.03	BM 4 NAIL IN BASE OF PP
-10	7 Alligstor Rd	74.0400	1852.30	843464.80	2331514.43	IP ID		5	S-107 Alligstor Rd	39+02.31	33.51	843288.2881	2336619.8550	M2.60	CP MSC 5	508	5	05176	55+1126	45.22	843325.0968	19263125520	368.83	BM S NAIL IN BASE OF PP
-10	OT Alligator Rd	64.8500	1415.56	843721.81	2331385.75	P		1	S-107 Alligator Rd	63+05.11	17.11	843357.4511	2003017.2440	136.51	CP PSC T	105	5	US 176	21+15.10	-47.75	8403T12487	1928458.1740	363.42	BM 2 NAIL IN BASE OF PP
-10	07 Alligator Rd	\$9.9900	1106.86	843865.48	2332397.37	P		8	S-107 Alligstor Rd	71+25.58	16.89	843465.8734	2333830.8150	158.96	CP PSC 8	106	5	U\$ 176	36+31.03	17.78	841802.0500	1927953.3300	388.43	BM 3 PK NAIL IN
-10	07 Alligator Rd	00+13.71 41.9700	331.73	843846.35	2332630.83	IP ID		3	S-107 Alligstor Rd	74+27.78	17.34	843505.3133	2340130.3440	153.54	CP MSC 3 CR MSC 10	101		US 176	43+42.33	-50.27	842837.5217	1927206.9270	344.03	BM 4 NAIL IN BASE OF PP
-10	07 Alligator Rd	01+46.66	316.44	843902.77	2332757.26	P		11	S-107 Alligstor Rd	101+24.86	14.13	843344.1936	2342787.7090	130.05	CP MSC 11	100		US 176	07+39.28	58.61	833420.1072	1929461,7180	325.69	BM 1 NALL IN BASE OF PP
-10	07 Alligator Rd	01+88.64	156.78	844028.18	2332864.63	P		12	S-107 Alligator Rd	116+53.60	13.67	843012.4557	2044286.1730	127.43	CP PSC 12	105	5	US 176	21+15.10	-47.75	840371.2487	1928458.1740	363.42	BM 2 NAIL IN BASE OF PP
-10	07 Alligator Rd	04+27.56	634.39	844034.20	2000100.01	P		13	S-107 Alligator Rd	128+32.55	13.59	842813.0719	2345442.4010	130.48	CP PSC 13	106		US 176	36+31.03	17.78	841802.0500	1927953.3300	388.43	BM 3 PK NAIL IN
-10	T Aligstor Rd	25+73.38	-1344 56	844370 46	2005010.45	P		15	S-107 Alligator Rd	154+23.71	-13.07	043402 0443	2347335 1610	121.12	CP MSC 15	10/		118 176	53+7126	45.22	6420313211	1326312 520	364.03	RMS NAIL IN BASE OF PP
-10	7 Alligstor Rd	10+20.31	33.16	844316.98	2333928.53	IP ?		16	S-107 Alligstor Rd	163+80.52	14.05	843938.8920	*******	128.35	CP PSC 16	104		US 176	07+33.28	58.61	839420.1072	1929461,7180	325.69	BM 1 NAIL IN BASE OF PP
10	07 Alligstor Rd	12+03.46	33.27	844234.45	2334098.72	P		17	S-107 Alligstor Rd	182+30.60	13.52	844314.4707	2350615.1060	126.91	CP PSC 17	105	5	US 176	21+15.10	-47.75	840371.2487	1928458.1740	363.42	BM 2 NAIL IN BASE OF PP
-10 -10	07 Alligator Rd	14+27.24	34.32	844138.05	2334254.01	PLC		18	S-107 Alligstor Rd S-107 Alligstor Rd	197+38.38	14.65	845002 2051	2352154.3330	125.66	CP MSC 18 CP MSC 19	100		US 176	36+3103	17.78	841802.0500 842837 5217	1927353.3300	366.43	BM 3 PK NAIL IN BM 4 NAIL IN BASE OF PP
-10	7 Alligator Rd	18+43.44	34.73	843354.22	2334674.08	P		20	S-107 Alligstor Rd	222+40.41	23.74	845022.5661	2354560.5430	125.06	CP PSC 20	106		US 176	53+71.26	45.22	843325.0368	1926312.5520	368.83	BM 5 NAIL IN BASE OF PP
10	of Alligstor Dd	20-67.58	35.54	840858.40	2004670.08	P		21	© 107 Alligstor Fid	236-84.51	17.72	845000.6820	2055878.5330	125.00	CP P60 21	104		US 176	07-08-28	58.61	808420.9072	1828461,7180	025.68	BM INAL IN BADE OF PP
-10	77 Alligstor Rd	22+16.26	33.65	843715.04	2335054.05	P		22	S-107 Alligstor Rd	252+30.88	15.34	844907.3702	2357538,2760	122.22	CP MSC 22 CP MSC 23	10:		05176	21+15.10	-41.15	8403112487	1928458.1740	363.42	BM 2 NAIL IN BASE OF PP
-10	OT Alligator Rd	25+21.54	33.87	843630.47	2335255.64	P		24	S-107 Alligator Rd	275+71.30	-13.54	844385,4354	2359758,4840	117.86	CP PSC 24	10	r r	US 176	43+42.33	-50.27	842837.5217	1927206.9210	344.09	BM 4 NAIL IN BASE OF PP
-10	07 Alligstor Rd	41+17.31	-33.39	843324.88	2336842.03	P		25	S-107 Alligstor Rd	292+21.16	-16.82	843977.9380	2361357.2140	125.26	CP PSC 25	106	8	US 176	59+71.26	45.22	843325.0968	1926312.5520	368	
-10	07 Alligator Rd	40+03.43	33.03	843274.76	2336720.07	P		26	S-107 Alligstor Rd	308+63.52	-17.23	843524.3716		123.31	CP MSC 26 CD MSC 27	904		US 176	07+33.28	58.61	838420.9072	1323461,7150	325.63	BM 1 NAIL IN BASE OF PP
-10	7 Alligator Rd	44+05.35	-32.82	843284.58	2337127.24	P		28	S-107 Alligstor Rd	328+34.61	16.83	842233.7970		118.51	CP PSC 28	106		US 176	36+31.03	17.78	841802.0500	1927953.3300	388.43	BM 3 PK NAIL IN
-10	07 Alligator Rd	44+11,41	33.35	843218.20	2007124.20	P		23	S-107 Alligator Rd	341+85.61	16.17	841565.6426	2365603.3150	120.71	CP PSC 23	10	r	US 176	43+42.33	-50.27	842837.5217	1927206.9270	344.03	BM 4 NAIL IN BASE OF PP
-10	07 Alligstor Rd	45+67.29	-32.46	843268.83	2337285.62	P		30	S-107 Alligstor Rd	355+23.28	-17.83	840997.0492	2366815.0990	119.05	CP MSC 30	108	8	US 176	59+71.26	45.22	843325.0968	1926312.5520	368.83	BM 5 NAIL IN BASE OF PP
-10	07 Alligator Rd	48+62.30	-33.24	843215.16	2331575.57	P	1000	38	S-107 Alligator Rd	381+78.12	19.24	839739,9601	2363152 1330	107.07	CP PSC 32	10		US 176	21+15.10	-47.75	8403712487	1928458,1740	363.42	BM 2 NAIL IN BASE OF PP
-10	07 Alligator Rd	49+93.03	-31.90	843285.97	2337705.91	P		33	S-107 Alligstor Rd	390+07.83	15.77	839469.5591	2369935.5860	113.65	CP PSC 33	106	5	US 176	36+31.03	17.78	841802.0500	1927953.3300	388.43	BM 3 PK NAIL IN
-10	07 Alligator Rd	51+41.48	-32.40	843233.58	2007653.73	P		34	S-107 Alligator Bd	402+27.35	-37,17	833312,6233	2371146.1240	115.43	CP PSC 34	101	r	US 176	43+42.33	-50.27	842837.5217	1927206.9270	344.03	BM 4 NAIL IN BASE OF PP
-10	07 Alligator Rd	54+16.30	-31.35	843323.40	2006127.50	P		36	S-107 Aligstor Rd	403+63.26	1500.30	840626.3042	2372127.8880	31.30	CP MSC 36	104		US 176	07+33.28	58.61	833420.1072	1323461,7180	325.63	BM 1 NAL IN BASE OF PP
-10	7 Alligator Rd	56+07.74	-32.28	843340.63	2008018.19	P		37	S-107 Alligator Rd	40+38.62	343,86	842367.8412		142.03	CP MSC 37	10	5	US 176	21+15.10	-47.75	8403T12487	1928458.1740	363.42	BM 2 NAIL IN BASE OF PP
-10	07 Alligstor Rd	57+52.04	-32.58	843353.67	2338461.90	P		38	S-107 Aligstor Rd	39+62.46	1604.73	841723.7970	10140040 4000	140.35	CP MSC 38	106		US 176	36+31.03	17.78	841802.0500	1927953.3300	388.43	EM 3 PK NAIL IN
10	77 Alligstor Rd	61+30.06	-335.76	843689.51	2338807.44	P		40	S-107 Aligner Rd	70-18.18	743,84	842739 2067	2333881.8120	138.39	CP MSC 40	10		US 176	59+7126	45.22	843325.0368	1926312,5520	368.83	BM 5 NAIL IN BASE OF PP
10	07 Alligator Rd	61+66.06	-82.46	843441.15	2338868.48	P		41	S-107 Alligator Rd	121+76.55	856.33	842077.8805	2344608.4810	131.82	CP MSC 41	104		US 176	07+39.28	58.61	839420.1072	1929461,7180	325.63	BM 1 NAL IN BASE OF PP
10	07 Alligator Rd	65+44.70	-156.87	843560.26	2339231.89	P		42	S-107 Alligator Rd	122+82.08	1567.66	841353.1033		134.10	CP MSC 42	10	5	US 176	21+15.10	-47.75	8403712487	1928458.1740	363.42	BM 2 NAIL IN BASE OF PP
10	21 Alligator Rd	63+63.37	-111.54	643530.04	2339342.66	P		43	s-IUT Alligstor Rd S-107 Alligstor Rd	154+4110	-1502.48	844533 3521	2344886.5590	131.57	CP MSC 43 CP MSC 44	106		US 176	35+31.03	-50.27	e41802.0500 842837.5217	15/1753.3300	344.03	BM & NAIL IN BASE OF PP
10	07 Alligator Rd	86+13.92	433.46	843192.77	2341336.60	P		45	S-10T Alligator Rd	203+01.73	46.63	844657.7136	2352656.2380	124.76	CP MSC 45	100	5	US 176	59+71.26	45.22	843325.0368	1926312.5520	368.83	BM 5 NAIL IN BASE OF PP
10	07 Alligstor Rd	165+36.74	703.49	843145.96	2349215.32	P		46	S-107 Alligstor Rd	194+40.25	1344.63	843229.6316	2352033.7320	126.87	CP MSC 46	104		US 176	07+39.28	58.61	839420.1072	1929461,7180	325.69	BM 1 NAL IN BASE OF PP
10	ur Alligator Rd	203+76.26	283.33	044437.13 84423152	2352771.65	P		47	s-tuT Alligator Rd S-107 Alligator Rd	100+42.38 204+05.41	2321.16	843314 7471	2351614.0040	126.37	CP MSC 47 CP MSC 48	105		U\$ 176	21+15.10 36+31.03	-47.75	0403712487 841802.0500	1328458.1740	363.42	BM 3 PENAL IN BASE OF PP
10	07 Alligstor Rd	203+33.77	336.27	843728.60	2352855.62	P		49	S-107 Alligstor Rd	203+76.02	-1265.04	845361.8323	2352497.8540	129.23	CP MSC 49	10		US 176	43+42.33	-50.27	842837.5217	1927206.9270	344.03	BM 4 NAIL IN BASE OF PP
-10	07 Alligator Rd	203+86.55	600.33	844127.58	2352837.66	P		50	S-107 Alligator Rd	203+50.47	-1815.54	846499.1623	2352375.4830	127.44	CP MSC 50	108	5	US 176	53+71.26	45.22	843325.0368	1926312.5520	368.83	BM 5 NAIL IN BASE OF PP
10	07 Alligator Rd	204+01.83	1014.72	843722.47	2352925.87	P		51	S-107 Alligstor Rd	220+48.48	1440.64	843594.0455	2354621.8600	125.81	CP MSC 51	104		US 176	07+39.28	58.61	833420.1072	1929461,7180	325.69	BM 1 NALL IN BASE OF PP
-10	77 Alligator Rd	203+31.14	738.35	843332.68	2352866.97	P		53	S-107 Alligstor Rd	266+02.25	1234.57	843347.6538	2358438.4170	123.84	CP MSC 53	100		US 176	36+31.03	17.78	841802.0500	1927953.3300	388.43	BM 3 PK NAIL IN
10	07 Alligator Rd	204+06.52	1132.66	843607.21	2352951.32	P		54	S-107 Alligstor Rd	270+54.64	1418.67	843117.0260	2358906.9070	123.75	CP MSC 54	10	1	US 176	49+42.33	-50.27	842837.5217	1927206.9270	344.09	BM 4 NAIL IN BASE OF PP
-10	07 Alligator Rd	203+34.00	825.28	843307.54	2352884.71	P		55	S-107 Alligator Rd	350+30.15	35.34	841115.3614	2366323.1560	110.17	CP MSC 55	100		US 176	53+71.26	45.22	843325.0368	1926312.5520	368.83	BM 5 NAIL IN BASE OF PP
-10 -10	21 Alligator Rd	203+35.02	75.806	643836.37 843737.04	2352887.64	P		56	s-IUT Alligstor Rd S-107 Alligstor R4	349+94.80	1626.00	639163,8879	2370722.5100	15.63	CP MSC 56 CP MSC 57	104	5	US 176	21+15.10	-47.75	033420.1072 840371.24A7	1928458,1740	325.69	BM 2 NAIL IN BASE OF PP
-10	DT Alligator Rd	203+37.89	1085.97	843641.04	2352875.51	P		58	S-107 Alligator Rd	330+71.04	1716.38	837782.6388	2363706.2010	113.81	CP MSC 58	100		US 176	36+31.03	17.78	841802.0500	1927953.0300	388.43	BM 3 PK NAIL IN
		203+86.88	1336.84	843343.71	2352978.64	IP CLROAD		59	S-107 Alligator Rd	67+59.85	-160.37	843592.5441	********	136.57	CP MSC 59	10		US 176	49+42.33	-50.27	842837.5217	1927206.9270	344.09	RM & NAIL IN BASE OF PR



Manual Process

If a <u>.csv</u> file is not available, there is an optional manual process to cut/paste data into the pre-formatted Survey Control Data Sheet(s).

Tabs used to manually create the Survey Control Data Sheet(s) are listed below:

Blank_Data and SCDS 5A Blank thru SCDS 5D Blank.

Manual Option 1 (Tab Delimited Data)

If the Property Monument, Control and Benchmark data is formatted as a "TAB" delimited ASCII file then the data can be copied directly into the Survey Control Data Sheet (Figure 17).



ile Edit Format View H	lelp			
S-107 Alligator Rd	65+02.91 -33.28	843432.186	2339207.029	RWM
S-107 Alligator Rd	72+61.38 455.17	843049.7395	2340024.102	RWM
S-107 Alligator Rd	71+35.41 -89.98	843573.101	2339826.241	RWM
5-107 Alligator Rd	71+55.91 -135.82	843621.2743	2339840.41	RWM
S-107 Alligator Rd	74.04 1852.3	843464.8001	2331514.427	IP
S-107 Alligator Rd	92.96 1545.37	843661.2517	2331812.977	IP
S-107 Alligator Rd	64.85 1415.56	843721.8135	2331985.746	IP
5-107 Alligator Rd	59.99 1106.86	843865.4795	2332397.371	IP
5-107 Alligator Rd	00+13.71 931.73	843946.952	2332630.933	IP
5-107 Alligator Rd	41.27 1108.19	843812.0973	2332504.542	IP
S-107 Alligator Rd	01+46.66 916.44	843902.7709	2332757.258	IP
S-107 Alligator Rd	01+88.64 756.78	844028.1799	2332864.626	IP
S-107 Alligator Rd	04+27.56 634.39	844034.2	2333133.005	IP
S-107 Alligator Rd	05+69.46 493.23	844099.4065	2333322.239	IP
S-107 Alligator Rd	25+79.38 -1344.56	844970.4585	2335810.452	IP
S-107 Alligator Rd	10+20.31 33.16	844316.9832	2333928.527	IP Ş
S-107 Alligator Rd	12+09.46 33.27	844234.4459	2334098.715	IP

Figure 17

Use (Figure 18) as a guide for total number of points that the spreadsheet will allow.



Figure 18



Select data to be copied from the tab delimited ASCII file (Figure 17).

On the **SCDS 5A Blank** tab use right mouse button while selecting cell to paste data.

Choose the paste button (Figure 19).

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Figure 19

If data does not paste correctly or does not appear as in (Figure 20), check that both the Alignment name and Description do not exceed the allowed formatted maximum characters.

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-	8	S-107 Alligator Rd	65+02.91	-33.28	843432.19	2339207.03	RWM
4	9	S-107 Alligator Rd	72+61.38	455.17	843049.74	2340024.10	RWM
F	10	S-107 Alligator Rd	71+35.41	-89.98	843573.10	2339826.24	RWM
F	11	S-107 Alligator Rd	71+55.91	-135.82	843621.27	2339840.41	RWM
Ŧ	12	S-107 Alligator Rd	74.04	1852.30	843464.80	2331514.43	IP
m	13	S-107 Alligator Rd	92.96	1545.37	843661.25	2331812.98	IP
Ŧ	14	S-107 Alligator Rd	64.85	1415.56	843721.81	2331985.75	IP
F	15	S-107 Alligator Rd	59.99	1106.86	843865.48	2332397.37	IP
Ŧ	16	S-107 Alligator Rd	00+13.71	931.73	843946.95	2332630.93	IP
4	17	S-107 Alligator Rd	41.27	1108.19	843812.10	2332504.54	IP
Ē	18	S-107 Alligator Rd	01+46.66	916.44	843902.77	2332757.26	IP
-	19	S-107 Alligator Rd	01+88.64	756.78	844028.18	2332864.63	IP
F	20	S-107 Alligator Rd	04+27.56	634.39	844034.20	2333133.01	IP
5	21	S-107 Alligator Rd	05+69.46	493.23	844099.41	2333322.24	IP
F	22	S-107 Alligator Rd	25+79.38	-1344.56	844970.46	2335810.45	IP
F	23	S-107 Alligator Rd	10+20.31	33.16	844316.98	2333928.53	IP ?
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Figure 20



Manual Option 2 (Comma or Space Delimited Data)

If the Property Monument, Control and Benchmark data is formatted as a "Comma" delimited or "Space" delimited ASCII file then the data needs to be copied to the *Blank_Data* spreadsheet tab (Figure 21).



Figure 21

The *Blank_Data* tab is used to sort the data into columns.

Copy Comma or Space delimited data (Figure 22) and paste into spreadsheet cell A1 (Figure 23).

File Edit Format View Heip 1000.US 17.6,10.66.72.87.838725.7627.1930113.086.351.8626.IP 11/4in PIPE 1001.US 17.6,112.05.52.02.838710.7021.1930098.602.352.048.IP 11/4in PIPE 1002.US 17.6,012.46.72.87.838720.3876.1929844.662.344.9794.IP 5/8in REBAR 1003.US 17.6,012.46.3.80.73.04.839237.5164.1929844.662.344.9794.IP 5/8in REBAR 1003.US 17.6,012.46.3.80.75.839152.7743.1929516.628.326.0521.IP 13/4in PIPE 1004.US 17.6,012.46.3.80.75.839152.7743.1929516.628.326.0521.IP 13/4in PIPE 1005.US 17.6,12483.15.37.26.839757.7555.1929024.708.346.7374.IP 5/8in REBAR 1005.US 17.6,12483.15.37.86.839528.671.11.929233.095.3292.777.IP 17/2in REBAR 1005.US 17.6,124.83.15.37.86.839528.671.11.929233.095.3292.777.IP 17/2in REBAR 1005.US 17.6,124.750.137.83.8952.5301.1929233.095.2727.329.777.1P 17/2in REBAR 1009.US 17.6,1347.50.1.37.7339825.3901.1928845.572.335.618.IP 11/4in PIPE 1019.US 17.6,1347.50.1.37.7398255.3901.1928842.544.384.1972.IP 5/8in REBAR 100.9US 17.6,1347.50.1.37.7398255.3901.1928842.543.481.972.IP 5/8in REBAR 1019.US 17.6,1447.40.37.19.84005
1000,US 176,10.66,72.87,838725,7627,1930113.086,351.8626,IP 1 1/4in PIPE 1001,US 176,10.5,52.02,838710,7021,1930098.602,352.048,IP 1 1/4in PIPE 1002,US 176,01+48,93,39.05,838970.3876,1929844.662,344,9794,IP 5/8in REBAR 1003,US 176,05+79,43,-37,04,839237,5164,192944,662,344,9794,IP 5/8in REBAR 1004,US 176,05+79,43,-37,04,839237,5164,1929024,708,347,974,IP 5/8in REBAR 1005,US 176,12+83,15-37,26,839757,7555,1929024,708,346,7374,IP 5/8in REBAR 1005,US 176,12+83,15-37,26,839757,7555,1929024,708,346,7374,IP 5/8in REBAR 1006,US 176,09+73,46,-37,38,839528,6711,1929233,095,329,277,IP 1 1/2in REBAR 1007,US 176,10+83,55,37,86,839660,7273,1929214,425,335,2525,IP 5/8in REBAR 1008,US 176,16+30,23,699,840064,839,11,928845,572,356,6018,IP 1 1/4in PT PIPE 1009,US 176,16+32,30,59,8400,057,3745,1928745,73,357,0169,IP 1 1/2in REBAR 1011,US 176,16+87,31,-44,48,840051,7665,1928754,33,357,261,IP 1 3/4in PIPE 1011,US 176,16+87,31,-44,46,840056,7345,1928752,63,357,261,IP 1 3/4in PIPE 1012,US 176,16+82,49,-44,6,84015,60866,1928652,167,364,5247,IP 1/2in REBAR 1013,US 176,16+82,50,-94,7,840164,5177,1928576,749,344,5038,IP 1 1/2in REBAR 1013,US 176,18+28,55,11,1840289,7864,19286602,9373,191,IP 1/2in REBAR 1013,US 176,18+28,55,11,1840289,7864,19286602,9373,31,91,IP 1/2in REBAR 1013,US 176,18+28,55,11,1840289,7864,19286602,9373,31,91,IP 1/2in REBAR 1013,US 176,19+21,95,11,1840289,7864,1928572,93,33,191,IP 1/2in REBAR 1013,US 176,19+21,95,11,1840289,7864,1928572,93,33,191,IP 1/2in REBAR
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Figure 22

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2	1001,US 176,1	2.05,52.	02,838710	.7021,193	0098.602,35	2.048,IP 1	1/4in PIPE	
3	1002,US 176,0	1+48.93	,39.05,838	970.3876,	1929844.662	2,344.9794,	IP 5/8in RE	BAR
4	1003,US 176,0	5+79.43	-37.04,83	9237.5164	,1929498.6,	329.7184,1	5/8in REB	AR
5	1004,US 176,0	5+04.63	-80.75,83	9152.7743	,1929516.62	8,326.0521	,IP 1 3/4in	PIPE
6	1005,US 176,1	2+83.15	-37.26,83	9757.7555	,1929024.70	8,346.7374	I, IP 5/8in R	EBAR
7	1006,US 176,0	9+73.46	-37.38,83	9528.6711	,1929233.09	5,329.277,	IP 1 1/2in F	REBAR
8	1007,US 176,1	0+83.55	,37.86,839	660.7273,	1929214.62	5,335.2525,	IP 5/8in RE	BAR
9	1008,US 176,1	6+30.82	,36.99,840	064.8391,	1928845.57	2,356.6018,	IP 1 1/4in I	PT PIPE
10	1009,US 176,1	3+75.01	-37.7,839	325.3901,:	1928962.546	,348.1972,	IP 5/8in RE	BAR
11	1010,US 176,1	6+87.31	-44.48,840	0051.7665	,1928747.3,	357.0169,1	P 1 1/2in Pl	PE
12	1011,US 176,1	6+87.40	,-37.19,84	0056.7345	,1928752.63	,357.261,1	P 1 3/4in Pl	PE
13	1012,US 176,1	8+28.49	,-44.6,840	156.0866,	1928652.167	,364.5247,	IP 1/2in RE	BAR
14	1013,US 176,1	8+85.50	-94.7,840	164.5177,	1928576.749	,364.5038,	IP 1 1/4in F	PIPE
15	1014,US 176,1	9+21.89	,51.41,840	289.7864,	1928660.29,	373.4191,1	P 1/2in REE	BAR
16	1015,US 176,1	9+95.98	,-44.54,84	0280.2382	,1928539.29	9,363.4688	3,IP 1/2in R	EBAR
17	1016,US 176,1	9+52.86	-94.04,84	0214.7737	,1928531.88	9,361.3978	3,IP 1/2in R	EBAR
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Figure 23



Select Column "A" (Figure 24).

Select "Text to Columns" button under the "Data" menu (Figure 24).

Select "Delimited" in Text Wizard box (Figure 24).

Select "Next".

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3	1002,	JS 1	6,01+48.93,39.05,8	38970.3876,	1929844.66	2,344.9794,	IP 5/8i	n REBAR												
4	1003,	JS 1	6,05+79.43,-37.04,	839237.5164	,1929498.6,	329.7184,IF	9 5/8in	REBAR												
5	1004,	JS 1	6,05+04.63,-80.75,	839152.7743	,1929516.62	8,326.0521	,IP 1 3/	4in PIPE												
6	1005,	JS 1	6,12+83.15,-37.26,	839757.7555	,1929024.70	8,346.7374	,IP 5/8	in REBAR		Conve	Text to Col	umns Wizard	- Step 1 of	3			? X			
7	1006,	JS 1	6,09+73.46,-37.38,	839528.6711	,1929233.09	5,329.277,	IP 1 1/2	2in REBAR						-						
8	1007,	JS 1	6,10+83.55,37.86,8	39660.7273,	1929214.62	5,335.2525,	IP 5/8i	n REBAR		The track wizaru has determined that your data is Delimited.										
9	1008,0	JS 1	6,16+30.82,36.99,8	40064.8391,	4in PT PIPE		If this	correct, cho	ose Next, or o	hoose the da	ata type that b	pest describes	your data.							
10	1009,0	JS 1	6,13+75.01,-37.7,8	,13+75.01,-37.7,839825.3901,1928962.546,348.1972,IP 5/8in REBAR							Origini data type									
11	1010,0	JS 1	6,16+87.31,-44.48,	840051.7665	,1928747.3,	357.0169,IF	2 1 1/2i	n PIPE		Choo	se the file typ	e that best de	escribes your	data:		e-14				
12	1011,	JS 1	6,16+87.40,-37.19,	840056.7345	,1928752.63	3,357.261,IF	p 1 3/4i	n PIPE			Delimited	- Character	s such as con	nmas or tabs s	separate each	neid.				
13	1012,	JS 1	6,18+28.49,-44.6,8	40156.0866,	1928652.167	,364.5247,	IP 1/2i	n REBAR		_) Fixed widdi	- Fields are	aligned in col	umns with spa	ices between	each neiù.				
14	1013,	JS 1	6,18+85.50,-94.7,84	40164.5177,:	1928576.749	,364.5038,	IP 1 1/4	lin PIPE		-										
15	1014,	JS 1	6,19+21.89,51.41,8	40289.7864,	1928660.29,	373.4191,1	P 1/2in	REBAR												
16	1015,	JS 1	6,19+95.98,-44.54,	840280.2382	,1928539.29	9,363.4688	,IP 1/2	in REBAR		Preview of selected data:										
17	1016,	JS 11	6,19+52.86,-94.04,	840214.7737	,1928531.88	39,361.3978	,IP 1/2	in REBAR												
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Figure 24

Depending on file type, select "Tab" or "Comma" (Figure 25).

Select "Next".

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Figure 25

Select "General" (Figure 26).

Select "Finish" (Figure 26).

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2	1001	US 176	12.05	52.02	838710.7	1930099	352.048	IP 1 1/4in PIPE	
3	1002	US 176	01+48.93	39.05	838970.4	1929845	344.9794	IP 5/8in REBAR	
4	1003	US 176	05+79.43	-37.04	839237.5	1929499	329.7184	IP 5/8in REBAR	
5	1004	US 176	05+04.63	-80.75	839152.8	1929517	326.0521	IP 1 3/4in PIPE	
6	1005	US 176	12+83.15	-37.26	839757.8	1929025	346.7374	IP 5/8in REBAR	
7	1006	US 176	09+73.46	-37.38	839528.7	1929233	329.277	IP 1 1/2in REBAR	
8	1007	US 176	10+83.55	37.86	839660.7	1929215	335.2525	IP 5/8in REBAR	
9	1008	US 176	16+30.82	36.99	840064.8	1928846	356.6018	IP 1 1/4in PT PIPE	
10	1009	US 176	13+75.01	-37.7	839825.4	1928963	348.1972	IP 5/8in REBAR	
11	1010	US 176	16+87.31	-44.48	840051.8	1928747	357.0169	IP 1 1/2in PIPE	
12	1011	US 176	16+87.40	-37.19	840056.7	1928753	357.261	IP 1 3/4in PIPE	
13	1012	US 176	18+28.49	-44.6	840156.1	1928652	364.5247	IP 1/2in REBAR	
14	1013	US 176	18+85.50	-94.7	840164.5	1928577	364.5038	IP 1 1/4in PIPE	
15	1014	US 176	19+21.89	51.41	840289.8	1928660	373.4191	IP 1/2in REBAR	
16	1015	US 176	19+95.98	-44.54	840280.2	1928539	363.4688	IP 1/2in REBAR	
17	1016	US 176	19+52.86	-94.04	840214.8	1928532	361.3978	IP 1/2in REBAR	
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It may be necessary to manipulate the data by deleting columns in order to properly format for final pasting into the blank Survey Control Data Sheet. (Figure 28) shows columns "A" (point number) and "G" (elevation) have been deleted.

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1	US 176	10.66	72.87	838725.8	1930113	IP 1 1/4in P	IPE	
2	US 176	12.05	52.02	838710.7	1930099	IP 1 1/4in P	IPE	
3	US 176	01+48.93	39.05	838970.4	1929845	IP 5/8in REE	BAR	
4	US 176	05+79.43	-37.04	839237.5	1929499	IP 5/8in REE	BAR	
5	US 176	05+04.63	-80.75	839152.8	1929517	IP 1 3/4in P	IPE	
6	US 176	12+83.15	-37.26	839757.8	1929025	IP 5/8in REE	BAR	
7	US 176	09+73.46	-37.38	839528.7	1929233	IP 1 1/2in R	EBAR	
8	US 176	10+83.55	37.86	839660.7	1929215	IP 5/8in REE	BAR	
9	US 176	16+30.82	36.99	840064.8	1928846	IP 1 1/4in P	T PIPE	
10	US 176	13+75.01	-37.7	839825.4	1928963	IP 5/8in REE	BAR	
11	US 176	16+87.31	-44.48	840051.8	1928747	IP 1 1/2in P	IPE	
12	US 176	16+87.40	-37.19	840056.7	1928753	IP 1 3/4in P	IPE	
13	US 176	18+28.49	-44.6	840156.1	1928652	IP 1/2in REE	BAR	
14	US 176	18+85.50	-94.7	840164.5	1928577	' IP 1 1/4in P	IPE	
15	US 176	19+21.89	51.41	840289.8	1928660	IP 1/2in REE	BAR	
16	US 176	19+95.98	-44.54	840280.2	1928539	IP 1/2in REE	BAR	
17	US 176	19+52.86	-94.04	840214.8	1928532	IP 1/2in REE	BAR	1
18	1							T

Figure 28

Data will be pasted as shown in (Figure 27).



Copy data (Figure 29).

Paste data in appropriate cell on the blank Survey Control Data Sheet(s) (Figure 30).

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1	US 176	10.00	72.87 838725.	5 1930113	IP 1 1/4in PIP			5		1 1.5				•	
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5	US 176	05+04 63	-37.04 835257.	8 1929517	ID 1 3/4in DID	F		9	*	Cut					
6	US 176	12+83.15	-37.26 839757	8 1929025	IP 5/8in REBA	R		10	(A)	Paste Options:					
7	US 176	09+73.46	-37 38 839528	7 1929233	IP 1 1/2in REP	AR		11		123 fx	8 %				
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9	US 176	16+30.82	36.99 840064.	8 1928846	IP 1 1/4in PT	PIPE	-	13		Insert copied cells					
10	US 176	13+75.01	-37.7 839825.	4 1928963	IP 5/8in REBA	R		15		Delete					
11	US 176	16+87.31	-44.48 840051.	8 1928747	IP 1 1/2in PIP	E	-	16		Filter					
12	US 176	16+87.40	-37.19 840056.	7 1928753	IP 1 3/4in PIP	E		17		Sort					
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15	US 176	19+21.89	51.41 840289.	8 1928660	IP 1/2in REBA	R	-	20		Define Name					
16	US 176	19+95.98	-44.54 840280.	2 1928539	IP 1/2in REBA	R		21	120	rypenjuk					
17	US 176	19+52.86	-94.04 840214.	8 1928532	IP 1/2in REBA	R		**							
19															

Figure 29

Figure 30

To ensure formatting is retained, use the "Paste Value" option when using this method (Figure 31).



Figure 31

Enter the correct County/Project ID and Road No (Figure 32).

ALIGNMENT STATION OFFSET NORTHING EASTING ELEV. DESCRIPTION A 104 US 176 07+39.28 58.61 839420.1072 1929461.7176 325.69 BM 1 NAIL IN BASE OF PP 4 <	Alignment Station OFFset Northing Easting Elev. Description 104 US 176 07+39.28 58.61 839420.1072 1929461.7176 325.69 BM 1 NAIL IN BASE OF PP 1 105 US 176 21+15.10 -47.75 840371.2487 1928458.1744 363.42 BM 2 NAIL IN BASE OF PP 1 1 106 US 176 36+31.03 17.78 841802.0500 1927953.3300 388.43 BM 3 PK NAIL IN CHEVRON 1 107 US 176 59+71.26 45.22 843325.0968 1926312.5520 368.83 BM 5 NAIL IN BASE OF PP 1 1					FED. RD. DIT. NO.	STATE			PRO IFOT ID		SHEE HO.
POINT ID ALIGNMENT STATION OFFSET NORTHING EASTING ELEV. DESCRIPTION 104 US 176 07+39.28 58.61 839420.1072 1929461.7176 325.69 BM 1 NAIL IN BASE OF PP 6 6 105 US 176 21+15.10 -47.75 840371.2487 1928458.1744 363.42 BM 2 NAIL IN BASE OF PP 6 6 106 US 176 36+31.03 17.78 841802.0500 1927953.3300 388.43 BM 3 PK NAIL IN CHEVRON 6 107 US 176 49+42.33 -50.27 842837.5217 192706.9274 344.09 BM 4 NAIL IN BASE OF PP 6 108 US 176 59+71.26 45.22 843325.0968 1926312.5520 368.83 BM 5 NAIL IN BASE OF PP 6 6	OINT ID ALIGNMENT STATION OFFSET NORTHING EASTING ELEV. DESCRIPTION 104 US 176 07+39.28 58.61 839420.1072 1929461.7176 325.69 BM 1 NAIL IN BASE OF PP 105 105 US 176 21+15.10 -47.75 840371.2487 1928458.1744 363.42 BM 2 NAIL IN BASE OF PP 106 106 US 176 36+31.03 17.78 841802.0500 1927953.3300 388.43 BM 3 PK NAIL IN CHEVRON 107 107 US 176 49+42.33 -50.27 842837.5217 192706.9274 344.09 BM 4 NAIL IN BASE OF PP 108 108 US 176 59+71.26 45.22 843325.0968 1926312.5520 368.83 BM 5 NAIL IN BASE OF PP 108					3	\$C	Nev	vberry	40478	U\$ 176	5A
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Figure 32



Enter Project Description (example: "US 176") and Datum Description (Figure 33).

SCET DE TRAI	TH CAROLINA PARTMENT OF NSPORTATION PROJECT DESC		CONTROL DATA
	US 176		
	DATUM DESC	RIPTION	
The LOCALIZED Coordinate Syst	em developed for this p	project is based	l on NAD83(2011) South Carolin
State Plane Coordinate Syst	em used to establish the	e Localization P	oint. The Localization Point is
Primary Survey Control po	int number CP 1 with a 1	Northing of 8385	583.7682 and an Easting of
1930152.9340. The Combinec	d Scale Factor (CSF) (gro	bund to grid) is 0° 1 with an eleve	0.99981470. Ele∨ations for this
project are bo	ased on NAVD88 for CF		ation of 356.10
1930152.9340. The Combinec	d Scale Factor (CSF) (gro	ound to grid) is (0.99981470. Elevations for this ation of 356.10
project are bo	ased on NAVD88 for CP	? 1 with an eleve	

Complete Date of Survey and any notes needed to complete the Survey Control Data Sheet.

NOTES:	(
1. The alignment Station and Official are referenced to the existing Survey Centerline.	
2. Date of Survey:	
	T
The Property Monuments Found listed on this sheet are assumed to be property corner monuments, field located during	
the course of this survey. The Department makes no claim that these located monuments are the true position of any	
property and takes no responsibility for this information being used as such. These monuments are tied to the control of thi	s
project in an effort to document and preserve their location in the event they are disturbed or destroyed during the	
construction of the project.	

Figure 34

Print Survey Control Data Sheet(s) as described on page 10 in section "Step 5 (Printing Survey Control Data Sheet as a PDF)".

End Instructions