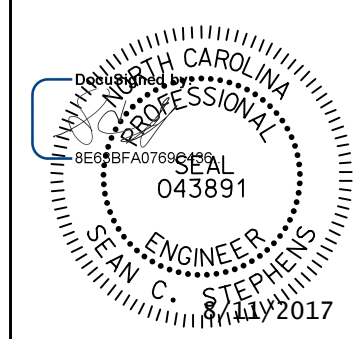


# ALIGNMENT CURVE DATA

**STV** 100 Years  
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 900 West Trade St., Suite 715  
 Charlotte, NC 28202  
 NC License Number F-0991

PROJECT REFERENCE NO. <i>U-4751</i>	SHEET NO. <i>2B-9</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	
	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

*CURVE & SPIRAL DATA -Y8LPB-*

<i>Pls Sta 11+69.89</i> <i>Δs = 26° 15' 06.8"</i> <i>Ls = 252.00'</i> <i>LT = 169.89'</i> <i>ST = 85.72'</i>	<i>Pls Sta 17+54.54</i> <i>Δ = 237° 22' 37.3" (LT)</i> <i>D = 20° 50' 05.4"</i> <i>L = 1,139.33'</i> <i>T = 502.54'</i> <i>R = 275.00'</i> <i>e = 8%</i> <i>RUNOFF = 252'</i>	<i>Pls Sta 24+30.16</i> <i>Δs = 12° 05' 03.1"</i> <i>Ls = 116.00'</i> <i>LT = 77.51'</i> <i>ST = 38.83'</i>
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*CURVE & SPIRAL DATA -Y8RPB-*

<i>Pls Sta 32+37.18</i> <i>Δs = 0° 42' 58.3"</i> <i>Ls = 100.00'</i> <i>LT = 66.67'</i> <i>ST = 33.33'</i>	<i>Pls Sta 22+81.75</i> <i>Δ = 26° 55' 21.6" (RT)</i> <i>D = 1° 25' 56.6"</i> <i>L = 1,879.56'</i> <i>T = 957.46'</i> <i>R = 4,000.00'</i> <i>e = 3%</i> <i>RUNOFF = 100'</i>	<i>Pls Sta 12+90.95</i> <i>Δs = 0° 42' 58.3"</i> <i>Ls = 100.00'</i> <i>LT = 66.67'</i> <i>ST = 33.33'</i>
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*CURVE & SPIRAL DATA -Y8RPC-*

<i>Pls Sta 10+40.00</i> <i>Δs = 0° 42' 58.3"</i> <i>Ls = 60.00'</i> <i>LT = 40.00'</i> <i>ST = 20.00'</i>	<i>Pls Sta 16+67.09</i> <i>Δ = 28° 23' 26.3" (LT)</i> <i>D = 2° 23' 14.4"</i> <i>L = 1,189.22'</i> <i>T = 607.09'</i> <i>R = 2,400.00'</i> <i>e = 5%</i> <i>RUNOFF = 120'</i>	<i>Pls Sta 22+89.23</i> <i>Δs = 1° 25' 56.6"</i> <i>Ls = 120.00'</i> <i>LT = 80.00'</i> <i>ST = 40.00'</i>
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*CURVE & SPIRAL DATA -Y8RPA-*

<i>Pls Sta 10+74.52</i> <i>Δs = 5° 09' 03.7"</i> <i>Δs = 3° 34' 05.0"</i> <i>Ls = 132.00'</i> <i>LT = 74.52'</i> <i>ST = 57.57'</i>	<i>Pls Sta 22+88.29</i> <i>Δ = 94° 58' 31.0" (LT)</i> <i>D = 5° 24' 18.9"</i> <i>L = 1,757.09'</i> <i>T = 1,156.29'</i> <i>R = 1,060.00'</i> <i>e = N/A</i> <i>RUNOFF = N/A</i>	<i>Pls Sta 29+22.43</i> <i>Δs = 2° 42' 09.5"</i> <i>Ls = 100.00'</i> <i>LT = 66.67'</i> <i>ST = 33.34'</i>
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*CURVE & SPIRAL DATA -Y8LPC-*

<i>Pls Sta 11+70.29</i> <i>Δs = 28° 52' 37.5"</i> <i>Ls = 252.00'</i> <i>LT = 170.29'</i> <i>ST = 86.09'</i>	<i>Pls Sta 18+15.30</i> <i>Δ = 227° 51' 53.4" (RT)</i> <i>D = 22° 55' 05.9"</i> <i>L = 994.25'</i> <i>T = 563.30'</i> <i>R = 250.00'</i> <i>e = N/A</i> <i>RUNOFF = N/A</i>	<i>Pls Sta 22+85.11</i> <i>Δs = 13° 17' 33.4"</i> <i>Ls = 116.00'</i> <i>LT = 77.55'</i> <i>ST = 38.87'</i>
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*CURVE & SPIRAL DATA -Y8RPD-*

<i>Pls Sta 12+70.93</i> <i>Δs = 3° 11' 31.9"</i> <i>Ls = 156.00'</i> <i>LT = 104.02'</i> <i>ST = 52.02</i>	<i>Pls Sta 21+81.12</i> <i>Δ = 63° 01' 00.1" (RT)</i> <i>D = 4° 05' 33.2"</i> <i>L = 1,539.79'</i> <i>T = 858.20'</i> <i>R = 1,400.00'</i> <i>e = 7%</i> <i>RUNOFF = 196'</i>	<i>Pls Sta 29+14.72</i> <i>Δs = 3° 11' 31.9"</i> <i>Ls = 156.00'</i> <i>LT = 104.02'</i> <i>ST = 52.02'</i>
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*CURVE & SPIRAL DATA -Y8RPCA-*

<i>Pls Sta 10+56.00</i> <i>Δs = 1° 00' 09.6"</i> <i>Ls = 84.00'</i> <i>LT = 56.00'</i> <i>ST = 28.00'</i>	<i>Pls Sta 16+50.24</i> <i>Δ = 26° 33' 02.1" (LT)</i> <i>D = 2° 23' 14.4"</i> <i>L = 1,112.15'</i> <i>T = 566.24'</i> <i>R = 2,400.00'</i> <i>e = 6%</i> <i>RUNOFF = 150'</i>	<i>Pls Sta 22+24.15</i> <i>Δs = 1° 00' 09.6"</i> <i>Ls = 84.00'</i> <i>LT = 56.00'</i> <i>ST = 28.00'</i>	<i>Pls Sta 29+47.88</i> <i>Δs = 3° 53' 30.4"</i> <i>Ls = 144.00'</i> <i>LT = 96.02'</i> <i>ST = 48.02'</i>	<i>Pls Sta 45+32.44</i> <i>Δ = 110° 48' 03.8" (RT)</i> <i>D = 5° 24' 18.9"</i> <i>L = 2,049.87'</i> <i>T = 1,536.59'</i> <i>R = 1,060.00'</i> <i>e = 6%</i> <i>RUNOFF = 144'</i>
<i>Pls Sta 50+93.75</i> <i>Δs = 3° 53' 30.4"</i> <i>Ls = 144.00'</i> <i>LT = 96.02'</i> <i>ST = 48.02'</i>	<i>Pls Sta 56+66.64</i> <i>Δs = 1° 00' 09.6"</i> <i>Ls = 84.00'</i> <i>LT = 56.00'</i> <i>ST = 28.00'</i>	<i>Pls Sta 60+91.56</i> <i>Δ = 18° 46' 52.9" (LT)</i> <i>D = 2° 23' 14.4"</i> <i>L = 786.71'</i> <i>T = 396.92'</i> <i>R = 2,400.00'</i> <i>e = 6%</i> <i>RUNOFF = 144'</i>	<i>Pls Sta 65+09.36</i> <i>Δs = 1° 00' 09.6"</i> <i>Ls = 84.00'</i> <i>LT = 56.00'</i> <i>ST = 28.00'</i>	

*CURVE & SPIRAL DATA -Y8RPDB-*

<i>Pls Sta 14+14.48</i> <i>Δs = 5° 43' 46.5"</i> <i>Ls = 240.00'</i> <i>LT = 160.08'</i> <i>ST = 80.08'</i>	<i>Pls Sta 17+81.62</i> <i>Δ = 26° 55' 17.5" (RT)</i> <i>D = 4° 46' 28.7"</i> <i>L = 563.84'</i> <i>T = 287.23'</i> <i>R = 1,200.00'</i> <i>e = 8%</i> <i>RUNOFF = 240</i>	<i>Pls Sta 21+38.31</i> <i>Δs = 5° 43' 46.5"</i> <i>Ls = 240.00'</i> <i>LT = 160.08'</i> <i>ST = 80.08'</i>	<i>Pls Sta 28+96.75</i> <i>Δs = 3° 53' 30.4"</i> <i>Ls = 144.00'</i> <i>LT = 96.02'</i> <i>ST = 48.02'</i>	<i>Pls Sta 50+39.08</i> <i>Δ = 126° 18' 36.0" (LT)</i> <i>D = 5° 24' 18.9"</i> <i>L = 2,336.80'</i> <i>T = 2,094.35'</i> <i>R = 1,060.00'</i> <i>e = 6%</i> <i>RUNOFF = 144'</i>
<i>Pls Sta 53+29.54</i> <i>Δs = 3° 53' 30.4"</i> <i>Ls = 144.00'</i> <i>LT = 96.02'</i> <i>ST = 48.02'</i>	<i>Pls Sta 62+86.82</i> <i>Δs = 5° 15' 07.6"</i> <i>Ls = 220.00'</i> <i>LT = 146.73'</i> <i>ST = 73.39'</i>	<i>Pls Sta 65+65.61</i> <i>Δ = 19° 26' 16.0" (RT)</i> <i>D = 4° 46' 28.7"</i> <i>L = 407.10'</i> <i>T = 205.53'</i> <i>R = 1,200.00'</i> <i>e = 8%</i> <i>RUNOFF = 320'</i>	<i>Pls Sta 68+50.63</i> <i>Δs = 0° 49' 47.8"</i> <i>Δs = 5° 15' 11.1"</i> <i>Ls = 220.00'</i> <i>LT = 136.75'</i> <i>ST = 83.44'</i>	

*CURVE DATA -SR4-*

<i>Pls Sta 19+02.83</i> <i>Δ = 144° 34' 17.0" (LT)</i> <i>D = 22° 55' 05.9"</i> <i>L = 630.81'</i> <i>T = 782.68'</i> <i>R = 250.00'</i> <i>e = 4%</i> <i>RUNOFF = 84'</i>	<i>Pls Sta 18+79.92</i> <i>Δ = 54° 34' 17.0" (RT)</i> <i>D = 22° 55' 05.9"</i> <i>L = 238.11'</i> <i>T = 128.96'</i> <i>R = 250.00'</i> <i>e = 4%</i> <i>RUNOFF = 84'</i>	<i>Pls Sta 24+51.14</i> <i>Δ = 14° 26' 00.8" (RT)</i> <i>D = 7° 38' 22.0"</i> <i>L = 188.93'</i> <i>T = 94.97'</i> <i>R = 750.00'</i> <i>e = 3%</i> <i>RUNOFF = 63'</i>
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 11/14/2017 10:51:00 AM  
 Sean C. Stephens