

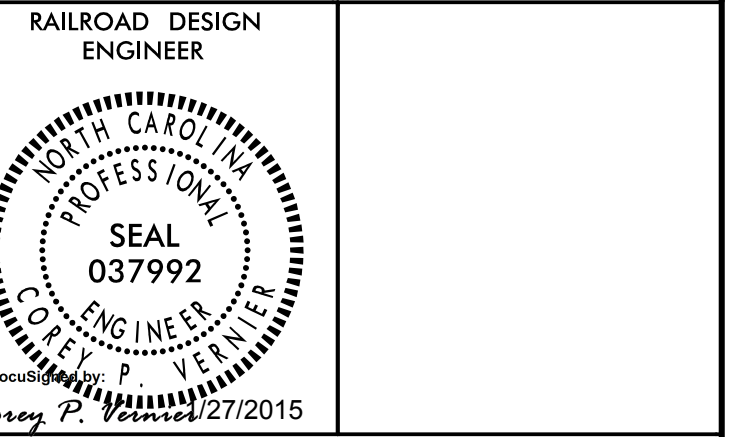
# RAILROAD HORIZONTAL ALIGNMENT GEOMETRY

**HNTB** HNTB NORTH CAROLINA, P.C.  
 343 E. Six Forks Road, Suite 200  
 Raleigh, North Carolina 27609  
 NC License No: C-1554

DATE: JANUARY 19, 2015

PROJECT REFERENCE NO. SHEET NO.  
 P-4900A 2D

RW SHEET NO.



TRACK GEOMETRY CURVE DATA																				
PROPOSED CONNECTION TRACK (-L-)																				
FEATURE NO.	DESC.	STATION	NORTHING	EASTING	BEARING	DISTANCE (FT)	R (FT)	Dc (CHORD)	L (FT)	T (FT)	I	DELTA (CURVE)	DELTA (SPIRAL)	THETA	LS* (FT)	X (FT)	Y (FT)	Ea (in)		
	POT	9+00.00	344184.8135	1946576.8626																
1	PS	10+00.00	344107.2825	1946513.7059	S 39° 09' 58.47" W	100.0000														
	PITO	10+59.54	344061.1188	1946476.1010	S 39° 09' 58.47" W	59.5417														
					S 36° 18' 07.47" W	185.4031														
101	TS	12+44.94	343911.7012	1946366.3345									0° 32' 32.92" (LT)	0° 10' 50.97"	62.00	61.9994	0.1957			
	SC	13+06.94	343861.6195	1946329.7859																
	PI	14+36.09	343756.8181	1946254.3130			3274.1718	1° 45' 00"	258.1644	129.1491	5° 36' 09.56" (LT)	4° 31' 03.72" (LT)							1.00"	
	CS	15+65.11	343646.3976	1946187.3295																
	ST	16+27.11	343593.1868	1946155.5084										0° 32' 32.92" (LT)	0° 10' 50.97"	62.00	61.9994	0.1957		
					S 30° 41' 57.90" W	120.0000														
102	TS	17+47.11	343490.0039	1946094.2443									1° 23' 41.68" (RT)	0° 27' 53.88"	124.00	123.9927	1.0062			
	SC	18+71.11	343383.9016	1946030.0766																
	PI	19+99.31	343275.2930	1945961.9615			2546.6427	2° 15' 00"	256.1857	128.2010	8° 33' 13.07" (RT)	5° 45' 49.71" (RT)							1.75"	
	CS	21+27.29	343174.0741	1945883.2835																
	ST	22+51.29	343077.4226	1945805.6068										1° 23' 41.68" (RT)	0° 27' 53.88"	124.00	123.9927	1.0062		
					S 39° 15' 10.96" W	331.9757														
103	TS	25+83.27	342820.3542	1945595.5503									5° 34' 43.92" (LT)	1° 51' 34.10"	279.00	278.7356	9.0492			
	SC	28+62.27	342598.7869	1945426.1887																
	PI	38+86.68	341746.2682	1944858.1844			1432.6854	4° 00' 00"	1778.2920	1024.4106	82° 17' 21.88" (LT)	71° 07' 54.04" (LT)							4.25"	
	CS	46+40.56	340933.0863	1945481.2030																
	ST	49+19.56	340723.1770	1945664.8153										5° 34' 43.92" (LT)	1° 51' 34.10"	279.00	278.7356	9.0492		
					S 43° 02' 10.92" E	375.9519														
104	TS	52+95.51	340448.3859	1945921.3884									0° 55' 47.83" (RT)	0° 18' 35.94"	93.00	92.9976	0.5031			
	SC	53+88.51	340380.0687	1945984.4880																
	PI	54+80.80	340311.5987	1946046.3693			2864.9344	2° 00' 00"	184.5067	92.2900	5° 33' 00.15" (RT)	3° 41' 24.49" (RT)							1.25"	
	CS	55+73.02	340239.2880	1946103.7155																
	ST	56+66.02	340165.8008	1946160.7105										0° 55' 47.83" (RT)	0° 18' 35.94"	93.00	92.9976	0.5031		
					S 37° 29' 10.78" E	1987.0014														
105	TS	76+53.02	338589.1179	1947369.9441									1° 32' 59.56" (LT)	0° 30' 59.84"	124.00	123.9909	1.1180			
	SC	77+77.02	338491.4117	1947446.2886																
	PI	80+90.91	338247.5964	1947643.9816			2292.0130	2° 30' 00"	623.8539	313.8923	18° 41' 45.97" (LT)	15° 35' 46.85" (LT)							2.00"	
	CS	84+00.88	338065.9099	1947899.9472																
	ST	85+24.88	337995.9738	1948002.3383										1° 32' 59.56" (LT)	0° 30' 59.84"	124.00	123.9909	1.1180		
					S 56° 10' 56.75" E	1372.9744														
106	TS	98+97.85	337231.8444	1949143.0245									1° 32' 59.56" (LT)	0° 30' 59.84"	124.00	123.9909	1.1180			
	SC	100+21.85	337161.9083	1949245.4156																
	PI	102+89.70	337006.8711	1949463.8369			2292.0130	2° 30' 00"	533.2416	267.8514	16° 25' 50.85" (RT)	13° 19' 51.74" (RT)							2.00"	
	CS	105+55.09	336805.6486	1949640.6245																
	ST	106+79.09	336711.0364	1949720.7715										1° 32' 59.56" (LT)	0° 30' 59.84"	124.00	123.9909	1.1180		
					S 39° 45' 05.89" E	1229.8873														
107	TS	119+08.98	335765.4701	1950507.2364									1° 32' 59.56" (LT)	0° 30' 59.84"	124.00	123.9909	1.1180			
	SC	120+32.98	335670.8579	1950587.3833																
	PI	124+55.31	335353.5837	1950866.1304			2292.0130	2° 30' 00"	835.2250	422.3303	23° 58' 49.36" (LT)	20° 52' 50.25" (LT)							2.00"	
	CS	128+68.20	335156.4980	1951239.6542																
	ST	129+92.20	335100.6208	1951350.3463										1° 32' 59.56" (LT)	0° 30' 59.84"	124.00	123.9909	1.1180		
					S 63° 43' 55.25" E	496.1073														
2	PITO	134+88.31	334881.0584	1951795.2225																
	PS	135+47.85	334857.4079	1951849.8656	S 66° 35' 46.25" E	59.5417														
					S 66° 35' 46.25" E	75.0000														
	POT	136+22.85	334827.6186	1951918.6921																