

MAINLINE ALIGNMENT

Horizontal Alignment Station and Curve Report.
Alignment: CENTER-SEGMENT1
Desc: as of 9-24-2007

Desc. Station	Spiral/Curve Data	Northing	Easting
PI 99+80	Length: 109.03 Course: S 70-02-33 E	1953148.8725	2309995.0814
PI 100+89.03	Length: 173.05 Delta: 79-36-54 Course: N 30-20-33 E	1953111.6588	2310097.5624
99+80 100+22.36	Length: 42.36 Course: S 70-02-33 E	1953148.8725 1953134.4150	2309995.0814 2310034.8952
PC 100+22.36 CC PT 101+33.52	Circular Curve Data Delta: 79-36-54 Type: LEFT Radius: 80.00 DOC: 71-37-11 Length: 111.16 Tangent: 66.67 Mid-Ord: 18.54 External: 24.14 Chord: 102.43 Course: N 70-09-00 E Es: 24.14	1953134.4150 1953209.6108 1953169.1973	2310034.8952 2310062.2009 2310131.2426
PI 102+39.90	Length: 125.90 Delta: 17-52-01 Course: N 12-28-32 E	1953261.0056	2310184.9825
101+33.52 102+24.18	Length: 90.66 Course: N 30-20-33 E	1953169.1973 1953247.4394	2310131.2426 2310177.0415
PC 102+24.18 CC PT 102+55.37	Circular Curve Data Delta: 17-52-01 Type: LEFT Radius: 100.00 DOC: 57-17-45 Length: 31.18 Tangent: 15.72 Mid-Ord: 1.21 External: 1.23 Chord: 31.06 Course: N 21-24-33 E Es: 1.23	1953247.4394 1953297.9563 1953276.3539	2310177.0415 2310090.7395 2310188.3783
PI 103+65.54	Length: 262.47 Delta: 32-51-51 Course: N 45-20-23 E	1953383.9289	2310212.1790
102+55.37 103+36.05	Length: 80.68 Course: N 12-28-32 E	1953276.3539 1953355.1328	2310188.3783 2310205.8079
PC 103+36.05 CC PT 103+93.41	Circular Curve Data Delta: 32-51-51 Type: RIGHT Radius: 100.00 DOC: 57-17-45 Length: 57.36 Tangent: 29.49 Mid-Ord: 4.08 External: 4.26 Chord: 56.58 Course: N 28-54-27 E Es: 4.26	1953355.1328 1953333.5305 1953404.6591	2310205.8079 2310303.4467 2310233.1565
PI 106+26.39	Length: 262.64 Delta: 65-06-27 Course: S 69-33-10 E	1953568.4220	2310398.8728
103+93.41 105+37.01	Length: 143.61 Course: N 45-20-23 E	1953404.6591 1953505.6003	2310233.1565 2310335.3018
PC 105+37.01 CC PT 106+96.10	Circular Curve Data Delta: 65-06-27 Type: RIGHT Radius: 140.00 DOC: 40-55-32 Length: 159.09 Tangent: 89.37 Mid-Ord: 22.00 External: 26.10 Chord: 150.67 Course: N 77-53-36 E Es: 26.10	1953505.6003 1953406.0202 1953537.1994	2310335.3018 2310433.7081 2310482.6163
PI 108+69.36	Length: 333.57 Delta: 21-04-27 Course: N 89-22-23 E	1953476.6712	2310644.9621
106+96.10 108+32.16	Length: 136.06 Course: S 69-33-10 E	1953537.1994 1953489.6675	2310482.6163 2310610.1042

Desc. Station	Spiral/Curve Data	Northing	Easting
PC 108+32.16 CC PT 109+05.73	Circular Curve Data Delta: 21-04-27 Type: LEFT Radius: 200.00 DOC: 28-38-52 Length: 73.56 Tangent: 37.20 Mid-Ord: 3.37 External: 3.43 Chord: 73.15 Course: S 80-05-24 E Es: 3.43	1953489.6675 1953677.0664 1953477.0783	2310610.1042 2310679.9730 2310682.1618
PI 112+02.09	Length: 275.33 Delta: 0-00-00 Course: N 89-22-23 E	1953480.3217	2310978.5106
109+05.73 112+02.09	Length: 296.37 Course: N 89-22-23 E	1953477.0783 1953480.3217	2310682.1618 2310978.5106
PI 114+77.43	Length: 246.28 Delta: 95-16-55 Course: N 05-54-32 W	1953483.3349	2311253.8281
112+02.09 113+12.92	Length: 110.83 Course: N 89-22-23 E	1953480.3217 1953481.5346	2310978.5106 2311089.3309
PC 113+12.92 CC PT 115+62.37	Circular Curve Data Delta: 95-16-55 Type: LEFT Radius: 150.00 DOC: 38-11-50 Length: 249.45 Tangent: 164.51 Mid-Ord: 48.93 External: 72.63 Chord: 221.68 Course: N 41-43-55 E Es: 72.63	1953481.5346 1953631.5256 1953646.9679	2311089.3309 2311087.6894 2311236.8924
PI 116+44.14	Length: 198.93 Delta: 2-31-05 Course: N 08-25-37 W	1953728.3105	2311228.4735
115+62.37 116+26.56	Length: 64.20 Course: N 05-54-32 W	1953646.9679 1953710.8222	2311236.8924 2311230.2835
PC 116+26.56 CC PT 116+61.72	Circular Curve Data Delta: 02-31-05 Type: LEFT Radius: 800.00 DOC: 07-09-43 Length: 35.16 Tangent: 17.58 Mid-Ord: 0.19 External: 0.19 Chord: 35.15 Course: N 07-10-05 W Es: 0.19	1953710.8222 1953628.4633 1953745.7024	2311230.2835 2310434.5342 2311225.8969
PI 118+43.06	Length: 137.08 Delta: 7-17-15 Course: N 01-08-22 W	1953925.0889	2311199.3211
116+61.72 117+92.12	Length: 130.40 Course: N 08-25-37 W	1953745.7024 1953874.6943	2311225.8969 2311206.7870
PC 117+92.12 CC PT 118+93.87	Circular Curve Data Delta: 07-17-15 Type: RIGHT Radius: 800.00 DOC: 07-09-43 Length: 101.75 Tangent: 50.94 Mid-Ord: 1.62 External: 1.62 Chord: 101.68 Course: N 04-47-00 W Es: 1.62	1953874.6943 1953991.9334 1953976.0234	2311206.7870 2311998.1497 2311198.3079
PI 119+80	Length: 957.70 Delta: 4-29-57 Course: N 05-38-19 W	1954062.1388	2311196.5950
118+93.87 119+68.22	Length: 74.35 Course: N 01-08-22 W	1953976.0234 1954050.3563	2311198.3079 2311196.8294
PC 119+68.22 CC PT 119+91.78	Circular Curve Data Delta: 04-29-57 Type: LEFT Radius: 300.00 DOC: 19-05-55 Length: 23.56 Tangent: 11.78 Mid-Ord: 0.23 External: 0.23 Chord: 23.55 Course: N 03-23-21 W Es: 0.23	1954050.3563 1954044.3900 1954073.8666	2311196.8294 2310896.8887 2311195.4371

PI 129+37.69	Length: 434.00 Delta: 1-47-34 Course: N 07-25-53 W	1955015.2073	2311102.4958
119+91.78 129+33	Length: 941.22 Course: N 05-38-19 W	1954073.8666 1955010.5364	2311195.4371 2311102.9570
PC 129+33 CC PT 129+42.39	Circular Curve Data Delta: 01-47-34 Type: LEFT Radius: 300.00 DOC: 19-05-55 Length: 9.39 Tangent: 4.69 Mid-Ord: 0.04 External: 0.04 Chord: 9.39 Course: N 06-32-06 W Es: 0.04	1955010.5364 1954981.0598 1955019.8616	2311102.9570 2310804.4086 2311101.8887
PI 133+71.70	Length: 172.54 Delta: 1-45-14 Course: N 09-11-07 W	1955445.5638	2311046.3624
129+42.39 133+67.10	Length: 424.72 Course: N 07-25-53 W	1955019.8616 1955441.0107	2311101.8887 2311046.9562
PC 133+67.10 CC PT 133+76.29	Circular Curve Data Delta: 01-45-14 Type: LEFT Radius: 300.00 DOC: 19-05-55 Length: 9.18 Tangent: 4.59 Mid-Ord: 0.04 External: 0.04 Chord: 9.18 Course: N 08-18-30 W Es: 0.04	1955441.0107 1955402.2090 1955450.0967	2311046.9562 2310749.4761 2311045.6294
PI 135+44.23	Length: 61.25 Delta: 0-00-00 Course: N 09-11-07 W	1955615.8912	2311018.8206
133+76.29 135+44.23	Length: 167.95 Course: N 09-11-07 W	1955450.0967 1955615.8912	2311045.6294 2311018.8206
PI 136+05.48	Length: 127.01 Delta: 28-25-42 Course: N 37-36-48 W	1955676.3553	2311009.0436
135+44.23 135+92.82	Length: 48.58 Course: N 09-11-07 W	1955615.8912 1955663.8526	2311018.8206 2311011.0653
PC 135+92.82 CC PT 136+17.63	Circular Curve Data Delta: 28-25-42 Type: LEFT Radius: 50.00 DOC: 114-35-30 Length: 24.81 Tangent: 12.67 Mid-Ord: 1.53 External: 1.58 Chord: 24.55 Course: N 23-23-57 W Es: 1.58	1955663.8526 1955655.8713 1955686.3878	2311011.0653 2310961.7064 2311001.3138
PI 137+31.97	Length: 305.47 Delta: 46-17-06 Course: N 08-40-18 E	1955776.9627	2310931.5280
136+17.63 136+87.09	Length: 69.46 Course: N 37-36-48 W	1955686.3878 1955741.4124	2311001.3138 2310958.9187
PC 136+87.09 CC PT 137+71.91	Circular Curve Data Delta: 46-17-06 Type: RIGHT Radius: 105.00 DOC: 54-34-03 Length: 84.82 Tangent: 44.88 Mid-Ord: 8.45 External: 9.19 Chord: 82.53 Course: N 14-28-15 W Es: 9.19	1955741.4124 1955805.4971 1955821.3280	2310958.9187 2311042.0941 2310938.2944
PI 140+32.50	Length: 1342.73 Delta: 15-09-10 Course: N 06-28-52 W	1956078.9417	2310977.5842