



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

ALIGNMENT DESCRIPTIONS

Chain Y55 contains:
1139 CUR Y55CI 1141

Beginning chain Y55 description

Point 1139 N 145,521.3042 E 2,333,024.5504 Sta 10+00.00

Course from 1139 to PC Y55CI N 24° 48' 36.42" E Dist 114.4932

Curve Data
-----x-----

Curve Y55CI
P.I. Station 11+81.74 N 145,686.2704 E 2,333,100.8108
Delta = 25° 16' 07.53" (RT)
Degree = 19° 05' 54.94"
Tangent = 67.2470
Length = 132.3069
Radius = 300.0000
External = 7.4446
Long Chord = 131.2373
Mid.Ord. = 7.2643
P.C. Station 11+14.49 N 145,625.2300 E 2,333,072.5932
P.T. Station 12+46.80 N 145,729.4249 E 2,333,152.3844
C.C. = N 145,499.3463 E 2,333,344.9042
Back = N 24° 48' 36.42" E
Ahead = N 50° 04' 43.95" E
Chord Bear = N 37° 26' 40.19" E

Course from PT Y55CI to 1141 N 50° 04' 43.95" E Dist 85.5517

Point 1141 N 145,784.3262 E 2,333,217.9965 Sta 13+32.35

Ending chain Y55 description

Chain Y56 contains:
1142 1143

Beginning chain Y56 description

Point 1142 N 145,812.6141 E 2,332,937.5318 Sta 10+00.00

Course from 1142 to 1143 N 50° 01' 32.23" E Dist 198.1786

Point 1143 N 145,939.9330 E 2,333,089.4024 Sta 11+98.18

Ending chain Y56 description

Chain Y57 contains:
1176 1177

Beginning chain Y57 description

Point 1176 N 145,937.3496 E 2,332,900.8364 Sta 10+00.00

Course from 1176 to 1177 N 49° 07' 08.55" E Dist 147.0387

Point 1177 N 146,033.5849 E 2,333,012.0080 Sta 11+47.04

Ending chain Y57 description

Chain Y58 contains:
1146 1147

Beginning chain Y58 description

Point 1146 N 146,224.7185 E 2,332,615.0568 Sta 10+00.00

Course from 1146 to 1147 N 47° 04' 30.06" E Dist 184.5455

Point 1147 N 146,350.4014 E 2,332,750.1895 Sta 11+84.55

Ending chain Y58 description

Chain Y59 contains:
1148 1149

Beginning chain Y59 description

Point 1148 N 146,715.1031 E 2,332,448.7985 Sta 10+00.00

Course from 1148 to 1149 N 50° 24' 05.61" E Dist 227.0542

Point 1149 N 146,859.8282 E 2,332,623.7507 Sta 12+27.05

Ending chain Y59 description

Chain Y60 contains:
1150 1151

Beginning chain Y60 description

Point 1150 N 147,335.8391 E 2,331,652.9850 Sta 10+00.00

Course from 1150 to 1151 N 44° 51' 38.11" E Dist 219.0546

Point 1151 N 147,491.1105 E 2,331,807.5027 Sta 12+19.05

Ending chain Y60 description

Chain Y61 contains:
1152 1153

Beginning chain Y61 description

Point 1152 N 147,504.1443 E 2,331,796.7316 Sta 10+00.00

Course from 1152 to 1153 N 50° 18' 17.15" E Dist 165.1845

Point 1153 N 147,609.6483 E 2,331,923.8333 Sta 11+65.18

Ending chain Y61 description

Chain Y62 contains:
1178 1179

Beginning chain Y62 description

Point 1178 N 147,800.9227 E 2,331,268.7983 Sta 10+00.00

Course from 1178 to 1179 N 51° 17' 28.23" E Dist 217.9218

Point 1179 N 147,937.2029 E 2,331,438.8501 Sta 12+17.92

Ending chain Y62 description

Chain Y63 contains:
1156 1157

Beginning chain Y63 description

Point 1156 N 147,972.6600 E 2,331,086.1186 Sta 10+00.00

Course from 1156 to 1157 N 50° 22' 06.90" E Dist 249.3132

Point 1157 N 148,131.6835 E 2,331,278.1305 Sta 12+49.31

Ending chain Y63 description

Chain Y64 contains:
1182 1183

Beginning chain Y64 description

Point 1182 N 148,602.2363 E 2,330,889.2637 Sta 10+00.00

Course from 1182 to 1183 N 50° 56' 23.38" E Dist 113.8055

Point 1183 N 148,673.9492 E 2,330,977.6319 Sta 11+13.81

Ending chain Y64 description

Chain Y65 contains:
1174 1175

Beginning chain Y65 description

Point 1174 N 148,912.1667 E 2,330,633.1359 Sta 10+00.00

Course from 1174 to 1175 N 50° 04' 42.10" E Dist 88.6954

Point 1175 N 148,969.0860 E 2,330,701.1583 Sta 10+88.70

Ending chain Y65 description

Chain Y66 contains:
1158 1159

Beginning chain Y66 description

Point 1158 N 149,570.1394 E 2,329,704.1444 Sta 10+00.00

Course from 1158 to 1159 N 50° 10' 45.36" E Dist 296.9619

Point 1159 N 149,760.3101 E 2,329,932.2266 Sta 12+96.96

Ending chain Y66 description

Chain Y67 contains:
1160 1161

Beginning chain Y67 description

Point 1160 N 149,764.3358 E 2,329,928.8997 Sta 10+00.00

Course from 1160 to 1161 N 50° 29' 16.75" E Dist 398.6291

Point 1161 N 150,017.9596 E 2,330,236.4386 Sta 13+98.63

Ending chain Y67 description

Chain Y68 contains:
1162 1163

Beginning chain Y68 description

Point 1162 N 150,368.6240 E 2,329,429.5134 Sta 10+00.00

Course from 1162 to 1163 N 49° 11' 52.10" E Dist 177.4449

Point 1163 N 150,484.5753 E 2,329,563.8339 Sta 11+77.44

Ending chain Y68 description

Chain Y69 contains:
1164 CUR Y69CI 1187

Beginning chain Y69 description

Point 1164 N 151,444.6500 E 2,328,540.2810 Sta 10+00.00

Course from 1164 to PC Y69CI N 50° 09' 19.62" E Dist 175.3007

Curve Data
-----x-----

Curve Y69CI
P.I. Station 12+50.10 N 151,604.8889 E 2,328,732.3018
Delta = 41° 00' 35.04" (LT)
Degree = 28° 38' 52.40"
Tangent = 74.7963
Length = 143.1510
Radius = 200.0000
External = 13.5287
Long Chord = 140.1148
Mid.Ord. = 12.6715
P.C. Station 11+75.30 N 151,556.9664 E 2,328,674.8743
P.T. Station 13+18.45 N 151,678.7343 E 2,328,744.1904
C.C. = N 151,710.5235 E 2,328,546.7329
Back = N 50° 09' 19.62" E
Ahead = N 9° 08' 44.58" E
Chord Bear = N 29° 39' 02.10" E

Course from PT Y69CI to 1187 N 9° 08' 44.58" E Dist 91.4417

Point 1187 N 151,769.0136 E 2,328,758.7247 Sta 14+09.89

Ending chain Y69 description