

Beginning chain 73S description

Point 1 N 934,219.5817 E 2,453,668.5787 Sta 2929+07.85
Course from 1 to PC 73S-1 S 25° 50' 13.54" E Dist 20,431.3127

Curve Data

Curve 73S-1
P.I. Station 3175+79.29 N 912,014.3796 E 2,464,420.7338
Delta = 50° 27' 09.34" (LT)
Degree = 0° 34' 11.83"
Tangent = 4,240.1250
Length = 7,925.0749
Radius = 9,000.0000
External = 948.8019
Long Chord = 7,671.5016
Mid. Ord. = 858.3162
P.C. Station 3133+39.17 N 915,830.6482 E 2,462,572.8284
P.T. Station 3212+64.24 N 911,009.4148 E 2,468,540.0427
C.C. N 915,752.9731 E 2,470,673.1597
Back = S 25° 50' 13.54" E
Ahead = S 76° 17' 22.86" E
Chord Bear = S 51° 03' 48.21" E

Course from PT 73S-1 to PC 73S-2 S 76° 17' 22.86" E Dist 1,215.0765

Curve Data

Curve 73S-2
P.I. Station 3245+44.30 N 910,303.1031 E 2,471,435.1852
Delta = 47° 37' 06.30" (RT)
Degree = 1° 25' 56.69"
Tangent = 1,764.9782
Length = 3,324.3927
Radius = 4,000.0000
External = 372.0874
Long Chord = 3,229.5388
Mid. Ord. = 340.4208
P.C. Station 3224+79.32 N 910,721.4259 E 2,469,720.4974
P.T. Station 3258+03.71 N 908,754.5344 E 2,472,281.9928
C.C. N 906,835.4000 E 2,468,772.4454
Back = S 76° 17' 22.86" E
Ahead = S 28° 40' 16.57" E
Chord Bear = S 52° 28' 49.72" E

Course from PT 73S-2 to PC 73S-3 S 28° 40' 16.57" E Dist 6,772.3074

Curve Data

Curve 73S-3
P.I. Station 3341+65.20 N 901,418.2759 E 2,476,293.6970
Delta = 35° 15' 51.28" (LT)
Degree = 1° 08' 45.30"
Tangent = 1,583.1592
Length = 3,070.3835
Radius = 5,000.0000
External = 246.0741
Long Chord = 3,029.0424
Mid. Ord. = 234.8950
P.C. Station 3325+76.02 N 902,812.6009 E 2,475,531.2349
P.T. Station 3356+53.40 N 900,720.0183 E 2,477,721.2569
C.C. N 905,211.5189 E 2,479,918.1691
Back = S 28° 40' 16.57" E
Ahead = S 63° 56' 07.85" E
Chord Bear = S 46° 18' 12.21" E

Course from PT 73S-3 to PC 73S-4 S 63° 56' 07.85" E Dist 4,334.5019

Curve Data

Curve 73S-4
P.I. Station 3408+89.98 N 898,419.1566 E 2,482,425.2782
Delta = 33° 28' 16.81" (LT)
Degree = 1° 54' 35.49"
Tangent = 902.0792
Length = 1,752.5551
Radius = 3,000.0000
External = 132.6900
Long Chord = 1,727.7404
Mid. Ord. = 127.0697
P.C. Station 3399+87.91 N 898,815.5144 E 2,481,614.9404
P.T. Station 3417+40.46 N 898,535.4474 E 2,483,319.8302
C.C. N 901,510.4147 E 2,482,933.0877
Back = S 63° 56' 07.85" E
Ahead = N 62° 35' 35.34" E
Chord Bear = S 80° 40' 16.26" E

Course from PT 73S-4 to PC 73S-5 N 82° 35' 35.34" E Dist 3,771.5102

Curve Data

Curve 73S-5
P.I. Station 3516+87.95 N 899,817.8197 E 2,493,184.3148
Delta = 51° 30' 52.07" (RT)
Degree = 0° 26' 51.44"
Tangent = 6,175.9786
Length = 11,508.4415
Radius = 12,800.0000
External = 1,412.0622
Long Chord = 11,124.7088
Mid. Ord. = 1,271.7645
P.C. Station 3455+11.97 N 899,021.6483 E 2,487,059.8701
P.T. Station 3570+20.41 N 895,519.2879 E 2,497,618.8764
C.C. N 886,328.4549 E 2,488,709.9714
Back = N 82° 35' 35.34" E
Ahead = S 45° 53' 32.60" E
Chord Bear = S 71° 38' 58.63" E

Course from PT 73S-5 to PC 73S-6 S 45° 53' 32.60" E Dist 17,971.0393

Curve Data

Curve 73S-6
P.I. Station 3765+24.80 N 881,944.0771 E 2,511,623.8836
Delta = 53° 37' 45.46" (RT)
Degree = 1° 34' 35.49"
Tangent = 1,527.5462
Length = 2,950.4766
Radius = 3,000.0000
External = 366.4195
Long Chord = 2,722.1893
Mid. Ord. = 326.5344
P.C. Station 3749+97.45 N 883,007.1212 E 2,510,526.9988
P.T. Station 3778+22.93 N 880,431.8387 E 2,511,499.2644
C.C. N 880,853.0197 E 2,508,438.9742
Back = S 45° 53' 32.60" E
Ahead = S 8° 04' 12.87" W
Chord Bear = S 18° 54' 39.87" E

Course from PT 73S-6 to PC 73S-7 S 8° 04' 12.87" W Dist 1,437.0688

Curve Data

Curve 73S-7
P.I. Station 3822+75.72 N 876,023.1675 E 2,510,784.1508
Delta = 41° 18' 33.73" (LT)
Degree = 0° 42' 58.31"
Tangent = 3,015.1797
Length = 5,767.8762
Radius = 8,000.0000
External = 549.5360
Long Chord = 5,643.7384
Mid. Ord. = 514.2136
P.C. Station 3792+60.00 N 879,009.0216 E 2,511,207.5186
P.T. Station 3850+57.87 N 873,500.8492 E 2,512,437.1710
C.C. N 877,885.9257 E 2,519,128.2923
Back = S 8° 04' 12.87" W
Ahead = S 33° 14' 20.87" E
Chord Bear = S 12° 35' 04.00" E

Course from PT 73S-7 to PC 73S-8 S 33° 14' 20.87" E Dist 2,702.4395

Curve Data

Curve 73S-8
P.I. Station 3888+00.37 N 870,345.5697 E 2,514,505.0071
Delta = 24° 09' 34.10" (RT)
Degree = 1° 08' 45.30"
Tangent = 1,070.0577
Length = 2,108.3118
Radius = 5,000.0000
External = 113.2205
Long Chord = 2,092.7274
Mid. Ord. = 110.7134
P.C. Station 3877+30.31 N 871,240.5554 E 2,513,918.4715
P.T. Station 3898+38.62 N 869,288.9199 E 2,514,673.8702
C.C. N 868,499.8826 E 2,509,736.5207
Back = S 33° 14' 20.87" E
Ahead = S 9° 04' 46.77" E
Chord Bear = S 21° 09' 33.82" E

Course from PT 73S-8 to PC 73S-9 S 9° 04' 46.77" E Dist 1,195.8272

Curve Data

Curve 73S-9
P.I. Station 3918+95.09 N 867,258.2211 E 2,514,998.3960
Delta = 24° 17' 06.97" (LT)
Degree = 1° 23' 56.62"
Tangent = 880.6394
Length = 1,758.4816
Radius = 4,000.0000
External = 91.5401
Long Chord = 1,682.7686
Mid. Ord. = 89.4671
P.C. Station 3910+34.45 N 868,108.0766 E 2,514,862.5806
P.T. Station 3927+29.88 N 866,539.4282 E 2,515,471.7215
C.C. N 868,739.3065 E 2,518,812.4602
Back = S 9° 04' 46.77" E
Ahead = S 33° 21' 53.73" E
Chord Bear = S 21° 13' 20.25" E

Course from PT 73S-9 to PC 73S-10 S 33° 21' 53.73" E Dist 2,603.1518



INTERSTATE 73
DILLON MARION HOBBS
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SOUTH CAROLINA

CONCEPTUAL ROADWAY PLANS
I-73 SOUTH (I-96 TO S.C. ROUTE 22)

NOT TO SCALE

GEOMETRIC DATA

SHEET
3A



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Curve Data

Curve 73S-10
P.L. Station = 3961+23.56 N
Delta = 29° 31' 28.82" (LT)
Degree = 1° 54' 35.49"
Tangent = 790.5248
Length = 1,545.9082
Radius = 3,000.0000
External = 102.4070
Long Chord = 1,528.8609
Mid. Ord. = 99.0267
P.C. Station = 3953+33.03 N
P.T. Station = 3968+78.94 N
C.C. = 3961+05.58 N
Back = S 33° 21' 53.73" E
Ahead = S 62° 53' 22.55" E
Chord Bear = S 48° 07' 38.14" E

Course from PT 73S-10 to PC 73S-11 is 62° 53' 22.55" E Dist 4,724.4263

Curve Data

Curve 73S-11
P.L. Station = 4000+37.65 N
Delta = 51° 06' 13.40" (RT)
Degree = 1° 54' 35.49"
Tangent = 1,445.3171
Length = 2,675.8137
Radius = 3,000.0000
External = 335.2003
Long Chord = 2,587.9836
Mid. Ord. = 293.4206
P.C. Station = 4016+03.37 N
P.T. Station = 4042+79.18 N
C.C. = 4029+41.27 N
Back = S 62° 53' 22.55" E
Ahead = S 11° 47' 07.15" E
Chord Bear = S 37° 20' 14.85" E

Course from PT 73S-11 to PC 73S-12 is 11° 47' 07.15" E Dist 1,946.0083

Curve Data

Curve 73S-12
P.L. Station = 4090+02.53 N
Delta = 58° 06' 05.57" (LT)
Degree = 1° 08' 45.30"
Tangent = 2,777.3403
Length = 5,070.3164
Radius = 5,000.0000
External = 719.5821
Long Chord = 4,853.8448
Mid. Ord. = 629.0513
P.C. Station = 4062+53.19 N
P.T. Station = 4112+49.51 N
C.C. = 4087+51.35 N
Back = S 11° 47' 07.15" E
Ahead = S 68° 53' 12.72" E
Chord Bear = S 40° 50' 09.94" E

Course from PT 73S-12 to PC 73S-13 is 68° 53' 12.72" E Dist 10,971.1731

Curve Data

Curve 73S-13
P.L. Station = 4231+86.08 N
Delta = 34° 04' 36.93" (RT)
Degree = 1° 54' 35.49"
Tangent = 919.3946
Length = 1,784.2636
Radius = 3,000.0000
External = 137.7200
Long Chord = 1,758.0816
Mid. Ord. = 131.6732
P.C. Station = 4222+66.68 N
P.T. Station = 4240+30.94 N
C.C. = 4231+48.81 N
Back = S 69° 33' 12.72" E
Ahead = S 35° 48' 35.79" E
Chord Bear = S 52° 50' 54.26" E

Course from PT 73S-13 to PC 73S-14 is 35° 48' 35.79" E Dist 1,047.4995

Curve Data

Curve 73S-14
P.L. Station = 4279+37.16 N
Delta = 40° 28' 27.37" (LT)
Degree = 0° 54' 35.76"
Tangent = 1,445.3171
Length = 2,675.8137
Radius = 7,700.0000
External = 596.6030
Long Chord = 5,326.8654
Mid. Ord. = 475.3298
P.C. Station = 4250+38.44 N
P.T. Station = 4306+37.80 N
C.C. = 4278+38.12 N
Back = S 35° 48' 35.79" E
Ahead = S 76° 17' 03.36" E
Chord Bear = S 56° 02' 49.58" E

Course from PT 73S-14 to PC 73S-15 is 76° 17' 03.36" E Dist 3,720.4424

Curve Data

Curve 73S-15
P.L. Station = 4367+75.55 N
Delta = 28° 15' 32.75" (RT)
Degree = 0° 34' 22.65"
Tangent = 2,517.3097
Length = 4,932.1429
Radius = 10,000.0000
External = 311.9760
Long Chord = 4,862.3032
Mid. Ord. = 302.5375
P.C. Station = 4342+58.25 N
P.T. Station = 4391+49.39 N
C.C. = 4367+53.82 N
Back = S 76° 17' 03.36" E
Ahead = S 48° 01' 30.61" E
Chord Bear = S 62° 09' 16.99" E

Course from PT 73S-15 to PC 73S-16 is 48° 01' 30.61" E Dist 7,412.4873

Curve Data

Curve 73S-16
P.L. Station = 4487+74.58 N
Delta = 46° 57' 16.38" (RT)
Degree = 1° 08' 45.30"
Tangent = 2,171.7042
Length = 4,097.5574
Radius = 5,000.0000
External = 451.2658
Long Chord = 3,983.8530
Mid. Ord. = 413.5092
P.C. Station = 4466+02.88 N
P.T. Station = 4507+00.43 N
C.C. = 4487+51.65 N
Back = S 48° 01' 30.61" E
Ahead = S 1° 04' 14.24" E
Chord Bear = S 24° 32' 52.42" E

Course from PT 73S-16 to PC 73S-17 is 1° 04' 14.24" E Dist 3,081.8496

Curve Data

Curve 73S-17
P.L. Station = 4538+68.41 N
Delta = 41° 32' 35.13" (LT)
Degree = 1° 02' 30.27"
Tangent = 1,445.3171
Length = 2,675.8137
Radius = 5,500.0000
External = 382.3409
Long Chord = 3,901.0694
Mid. Ord. = 357.4895
P.C. Station = 4537+82.28 N
P.T. Station = 4577+70.13 N
C.C. = 4557+26.20 N
Back = S 1° 04' 14.24" E
Ahead = S 42° 36' 49.37" E
Chord Bear = S 21° 50' 31.80" E

Course from PT 73S-17 to PC 73S-18 is 42° 36' 49.37" E Dist 1,612.7280

Curve Data

Curve 73S-18
P.L. Station = 4603+33.05 N
Delta = 26° 43' 32.36" (RT)
Degree = 1° 25' 56.62"
Tangent = 950.1925
Length = 1,865.8028
Radius = 4,000.0000
External = 111.3095
Long Chord = 1,848.9340
Mid. Ord. = 108.2959
P.C. Station = 4593+42.86 N
P.T. Station = 4612+48.66 N
C.C. = 4603+40.76 N
Back = S 42° 36' 49.37" E
Ahead = S 1° 58' 17.01" E
Chord Bear = S 29° 15' 03.19" E

Course from PT 73S-18 to PC 73S-19 is 15° 53' 17.01" E Dist 4,163.7727



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NOT TO SCALE

GEOMETRIC DATA

SHEET
3C

Curve Data

Curve 73S-19
P.L. Station = 4671+68.66 N
Delta = 11° 46' 38.60" (LT)
Degree = 0° 20' 13.32"
Tangent = 1,754.2220
Length = 3,496.0702
Radius = 17,000.0000
External = 90.2690
Long Chord = 3,489.9128
Mid. Ord. = 89.7922
P.C. Station = 4654+14.44 N
P.T. Station = 4689+10.51 N
C.C. = N 824°29'31.24 E 2,580,216.9494
Back = S 15° 53' 17.01" E
Ahead = S 27° 40' 15.61" E
Chord Bear = S 21° 46' 46.31" E

Course from PT 73S-19 to PC 73S-20 S 27° 40' 15.61" E Dist 8,692.1874

Curve Data

Curve 73S-20
P.L. Station = 4781+32.79 N
Delta = 6° 04' 07.78" (RT)
Degree = 0° 34' 22.65"
Tangent = 1,938.1081
Length = 1,059.2103
Radius = 10,000.0000
External = 14.0465
Long Chord = 1,058.7152
Mid. Ord. = 14.0208
P.C. Station = 4776+02.69 N
P.T. Station = 4786+61.90 N
C.C. = N 804°06'02.62 E 2,560,341.5713
Back = S 27° 40' 15.61" E
Ahead = S 21° 36' 07.83" E
Chord Bear = S 24° 38' 11.72" E

Course from PT 73S-20 to PC 73S-21 S 21° 36' 07.83" E Dist 6,684.3356

Curve Data

Curve 73S-21
P.L. Station = 4862+47.54 N
Delta = 20° 26' 12.67" (LT)
Degree = 1° 08' 45.30"
Tangent = 901.3022
Length = 1,783.4519
Radius = 5,000.0000
External = 80.5852
Long Chord = 1,774.0125
Mid. Ord. = 79.3070
P.C. Station = 4853+46.24 N
P.T. Station = 4871+29.69 N
C.C. = N 803°36' 18.37 E
Back = S 21° 36' 07.83" E
Ahead = S 42° 02' 20.60" E
Chord Bear = S 31° 49' 14.16" E

Course from PT 73S-21 to PC 73S-22 S 42° 02' 20.50" E Dist 6,646.0160

Curve Data

Curve 73S-22
P.L. Station = 4943+84.24 N
Delta = 11° 54' 56.74" (LT)
Degree = 0° 57' 17.75"
Tangent = 608.5283
Length = 1,212.9091
Radius = 6,000.0000
External = 30.7799
Long Chord = 1,210.8449
Mid. Ord. = 30.6228
P.C. Station = 4937+75.71 N
P.T. Station = 4947+88.62 N
C.C. = N 799°10'18.936 E 2,581,942.0176
Back = S 42° 02' 20.50" E
Ahead = S 53° 37' 17.24" E
Chord Bear = S 47° 49' 48.87" E

Course from PT 73S-22 to PC 73S-23 S 53° 37' 17.24" E Dist 1,657.0146

Curve Data

Curve 73S-23
P.L. Station = 4985+54.29 N
Delta = 21° 36' 42.17" (RT)
Degree = 0° 34' 22.65"
Tangent = 1,938.1081
Length = 3,771.5597
Radius = 10,000.0000
External = 180.5201
Long Chord = 3,749.6345
Mid. Ord. = 177.3191
P.C. Station = 4966+45.63 N
P.T. Station = 5004+17.59 N
C.C. = N 785°23'23.40 E 2,573,786.2276
Back = S 53° 37' 17.24" E
Ahead = S 32° 00' 35.07" E
Chord Bear = S 42° 48' 56.16" E

Course from PT 73S-23 to PC 73S-24 S 32° 00' 35.07" E Dist 2,688.0759

Curve Data

Curve 73S-24
P.L. Station = 5060+84.98 N
Delta = 43° 19' 48.61" (RT)
Degree = 0° 45' 50.20"
Tangent = 2,979.5197
Length = 5,671.9060
Radius = 7,500.0000
External = 570.0896
Long Chord = 5,537.7074
Mid. Ord. = 529.8171
P.C. Station = 5031+43.66 N
P.T. Station = 5087+77.37 N
C.C. = N 784°28'31.011 E 2,577,250.9734
Back = S 32° 00' 35.07" E
Ahead = S 11° 19' 13.54" W
Chord Bear = S 10° 20' 40.76" E

Course from PT 73S-24 to PC 73S-25 S 11° 19' 13.54" W Dist 7,363.8707

Curve Data

Curve 73S-25
P.L. Station = 5222+86.83 N
Delta = 127° 57' 34.01" (LT)
Degree = 1° 54' 35.49"
Tangent = 6,145.3910
Length = 6,699.9410
Radius = 3,000.0000
External = 3,838.5547
Long Chord = 5,391.8332
Mid. Ord. = 1,683.9324
P.C. Station = 5161+41.44 N
P.T. Station = 5228+41.38 N
C.C. = N 775°00'13.070 E 2,586,181.1965
Back = S 11° 19' 13.54" W
Ahead = N 63° 21' 39.53" E
Chord Bear = S 52° 39' 33.46" E

Ending chain 73S description