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PROPOSED S2 TRACK ALIGNMENT (CONTINUED)

Curve 203 (CONTINUED)

Spiral S2-3A

Chord Definition

Angle	0°15' 29.97" (LT)	P	0.0116
LS	31.0000	K	15.5000
R	3,437.8680	LT	20.6667
YS	0.0466	ST	10.3334
XS	30.9999	LC	31.0000
BK	S 42°26' 33.05" W		
AH	S 42°11' 03.08" W		
CB	S 42°16' 13.07" W		
Defl	0° 05' 09.99"		
Deg	1° 40' 00.00"		

Spiral Coordinates

Point	North	East	Station
CS	543,966.3466	1,447,694.8013	29+27.51
PI	543,958.7210	1,447,687.8278	29+37.85
ST	543,943.4072	1,447,673.9498	29+58.51
CC	541,646.3009	1,450,231.7925	

Course from ST S2-3A to TS S2-4B
S 42°11' 03.08" W Dist 150.7119

Curve 204 Ea = 1.00", V(Passenger) = 30 mph

PISCS S2-4 N 543,755.0734 E 1,447,503.2738 STA 32+12.68

Total Tangent =	103.4533
Total Length =	206.8689
Total Delta =	2° 53' 50.33" (RT)
Back Tangent =	S 42° 11' 03.08" W
Ahead Tangent =	S 45° 04' 53.42" W

Spiral S2-4B

Chord Definition

Angle	0° 37' 11.89" (RT)	P	0.0559
LS	62.0000	K	30.9999
R	2,864.9344	LT	41.3336
YS	0.2236	ST	20.6669
XS	61.9993	LC	61.9997
BK	S 42° 11' 03.08" W		
AH	S 42° 48' 14.97" W		
CB	S 42° 23' 27.05" W		
Defl	0° 12' 23.96"		
Deg	2° 00' 00.00"		

Spiral Coordinates

Point	North	East	Station
TS	543,831.7313	1,447,572.7444	31+09.22
PI	543,801.1035	1,447,544.9882	31+50.56
SC	543,785.9406	1,447,530.9451	31+71.22
CC	545,732.6479	1,445,428.9985	

Curve S2-4

Chord Definition

P.I. Station	32+12.66	N	543,755.5373	E	1,447,502.7873
Delta =	1°39' 26.56" (RT)				
Degree =	2° 00' 00.00"				
Tangent =	41.4394				
Length =	82.8689				
Radius =	2,864.9344				
External =	0.2997				
Long Chord =	82.8702				
Mid. Ord. =	0.2997				
P.C. Station	31+71.22	N	543,785.9406	E	1,447,530.9451
P.T. Station	32+54.09	N	543,725.9611	E	1,447,473.7618
C.C.		N	545,732.6479	E	1,445,428.9985

Back	S 42°48' 14.97" W
Ahead	S 44°27' 41.53" W
Chord Bear	S 43°37' 58.25" W

Spiral S2-4A

Chord Definition

Angle	0° 37' 11.89" (RT)	P	0.0559
LS	62.0000	K	30.9999
R	2,864.9344	LT	41.3336
YS	0.2236	ST	20.6669
XS	61.9993	LC	61.9997
BK	S 44°27' 41.53" W		
AH	S 45°04' 53.42" W		
CB	S 44°52' 29.46" W		
Defl	0° 12' 23.96"		
Deg	2° 00' 00.00"		

Spiral Coordinates

Point	North	East	Station
CS	543,725.9611	1,447,473.7618	32+54.09
PI	543,711.2107	1,447,459.2861	32+74.76
ST	543,682.0250	1,447,430.0173	33+16.09
CC	545,732.6479	1,445,428.9985	

Course from ST S2-4A to 15923
S 45°04' 53.42" W Dist 159.9706

Point 15923 (PI TO #15 LH TO)
N 543,569.0698 E 1,447,316.7403 Sta 34+76.06

Course from 15923 to 15924
S 48°53' 59.42" W Dist 39.9800

Point 15924 (PS #15 LH TO)
N 543,542.7879 E 1,447,286.6129 Sta 35+16.04

PROPOSED A1 TRACK ALIGNMENT

Point 15941 (PS #10 LH TO)
N 543,496.7714 E 1,447,233.8636 Sta 35+87.79

Course from 15941 to 15942
S 48° 53' 59.42" W Dist 31.2500

Point 15942 (PI TO #10 LH TO)
N 543,476.2284 E 1,447,210.3148 Sta 36+19.04

Course from 15942 to PC A1-1
S 43° 10' 30.42" W Dist 228.1542

Curve 401 Ea = 0.00", V(Passenger) = 15 mph

Curve A1-1

Chord Definition

P.I. Station	39+00.46	N	543,271.0001	E	1,447,017.7602
Delta =	1° 03' 54.81" (RT)				
Degree =	1° 00' 00.00"				
Tangent =	53.2635				
Length =	106.5225				
Radius =	5,729.6507				
External =	0.2476				
Long Chord =	106.5223				
Mid. Ord. =	0.2476				
P.C. Station	38+47.19	N	543,309.8433	E	1,447,054.2047
P.T. Station	39+53.72	N	543,232.8411	E	1,446,980.5999
C.C.		N	547,230.2447	E	1,442,875.7660

Back	S 43° 10' 30.42" W
Ahead	S 44° 14' 25.23" W
Chord Bear	S 43° 42' 27.82" W

Course from PT A1-1 to 15943
S 44°14' 25.23" Dist 888.4553

Point 15943 (PINC)
N 542,596.3343 E 1,446,360.7516 Sta 48+42.17

Course from 15943 to 15944
S 44° 05' 52.44" Dist 73.1076

Point 15944 (POT)
N 542,543.8320 E 1,446,309.8770 Sta 49+15.28

PROPOSED A6 TRACK ALIGNMENT

Point 15981 (PS #8 LH TO)
N 542,904.6403 E 1,446,660.9888 Sta 44+11.83

Course from 15981 to 15982
S 44° 14' 25.23" W Dist 30.0000

Point 15982 (PI TO #8 LH TO)
N 542,883.1477 E 1,446,640.0587 Sta 44+41.83

Course from 15982 to PC A6-1
S 37° 05' 15.23" W Dist 90.8151

Curve 601 Ea = 0.00", V(Passenger) = 15 mph

Curve A6-1

Chord Definition

P.I. Station	45+62.52	N	542,786.8687	E	1,446,567.2763
Delta =	7° 08' 54.35" (RT)				
Degree =	12° 00' 00.00"				
Tangent =	29.8784				
Length =	59.5702				
Radius =	478.3386				
External =	0.9322				
Long Chord =	59.6406				
Mid. Ord. =	0.9304				
P.C. Station	45+32.64	N	542,810.7032	E	1,446,585.2941
P.T. Station	45+92.21	N	542,765.4617	E	1,446,546.4327
C.C.		N	543,099.1580	E	1,446,203.7163

Back	S 37° 05' 15.23" W
Ahead	S 44° 14' 09.58" W
Chord Bear	S 40° 39' 42.40" W

Course from PT A6-1 to 15983
S 44° 14' 09.58" W Dist 126.2599

Point 15983 (POT)
N 542,674.9999 E 1,446,458.3519 Sta 47+18.47

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