

# HORIZONTAL & VERTICAL CONTROL

Curve Data  
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**Curve 320**  
 P.I. Station 145+98.41 N 2,104,621.6901 E 2,340,211.4892  
 Delta = 5° 27' 57.21" (RT)  
 Degree = 1° 01' 04.61"  
 Tangent = 268.6797'  
 Length = 536.9518'  
 Radius = 5,628,555.4'  
 External = 6.4091'  
 Long Chord = 536.7483'  
 Mid. Ord. = 6.4018'  
 P.C. Station 143+29.73 N 2,104,621.4939 E 2,339,942.8095  
 P.T. Station 148+66.68 N 2,104,596.2929 E 2,340,478.9658  
 C.C. N 2,098,992.9400 E 2,339,946.9210

Course from PT 320 to PC 310 S 84° 34' 33.46" E Dist 90.2743'

Curve Data  
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**Curve 310**  
 P.I. Station 150+63.71 N 2,104,577.6685 E 2,340,675.1129  
 Delta = 1° 51' 23.55" (LT)  
 Degree = 0° 52' 10.60"  
 Tangent = 106.7549'  
 Length = 213.4912'  
 Radius = 6,588,667.0'  
 External = 0.8648'  
 Long Chord = 213.4818'  
 Mid. Ord. = 0.8647'  
 P.C. Station 149+56.96 N 2,104,587.7596 E 2,340,568.8359  
 P.T. Station 151+70.45 N 2,104,571.0258 E 2,340,781.6609  
 C.C. N 2,111,146.9252 E 2,341,191.6363

Course from PT 310 to PC 300 S 86° 25' 57.01" E Dist 185.0602'

Curve Data  
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**Curve 300**  
 P.I. Station 153+67.40 N 2,104,558.7706 E 2,340,978.2309  
 Delta = 2° 23' 06.45" (LT)  
 Degree = 10° 01' 48.93"  
 Tangent = 11.8914'  
 Length = 23.7793'  
 Radius = 571.2294'  
 External = 0.1238'  
 Long Chord = 23.7776'  
 Mid. Ord. = 0.1237'  
 P.C. Station 153+55.51 N 2,104,559.5105 E 2,340,966.3625  
 P.T. Station 153+79.29 N 2,104,558.5252 E 2,340,990.1197  
 C.C. N 2,105,129.6330 E 2,341,001.9069

Course from PT 300 to PC 290 S 88° 49' 03.46" E Dist 236.4586'

Curve Data  
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**Curve 290**  
 P.I. Station 156+83.98 N 2,104,552.2378 E 2,341,294.7524  
 Delta = 0° 44' 12.17" (LT)  
 Degree = 0° 32' 23.32"  
 Tangent = 68.2390'  
 Length = 136.4761'  
 Radius = 10,614.0288'  
 External = 0.2194'  
 Long Chord = 136.4752'  
 Mid. Ord. = 0.2194'  
 P.C. Station 156+15.74 N 2,104,553.6459 E 2,341,226.5280  
 P.T. Station 157+52.22 N 2,104,551.7071 E 2,341,362.9894  
 C.C. N 2,115,165.4148 E 2,341,445.5465

Course from PT 290 to 280 S 89° 33' 15.63" E Dist 1,366.2884'

Point 280 N 2,104,541.0799 E 2,342,729.2365 Sta 171+18.51

Course from 280 to 270 S 89° 43' 55.81" E Dist 2,881.4910'

Point 270 N 2,104,527.6104 E 2,345,610.6959 Sta 200+00.00

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 Ending chain CANYON\_RD description

APPARENT PROPERTY CORNERS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
700	2104587.7993	2335069.9004	962.0076	CANYON_RD	94+56.67	0.5304' RT	SECTION CORNER, SECTION CORNER
701	2104587.7566	2335068.9443	962.0327	CANYON_RD	94+55.72	0.5677' RT	REFERENCE CORNER, REFERENCE CORNER
702	2104587.8282	2335070.9370	961.9977	CANYON_RD	94+57.71	0.5074' RT	REFERENCE CORNER, REFERENCE CORNER
703	2104588.7811	2335069.9283	961.9433	CANYON_RD	94+56.71	0.4512' LT	REFERENCE CORNER, REFERENCE CORNER
704	2104606.5637	2337697.0080	891.2213	CANYON_RD	120+83.86	0.2839' RT	SECTION CORNER, SECTION CORNER

CURVE POINT NUMBERS					
CHAIN	CURVE	PI	CC	PC	PT
IL 78	200	200	201	202	203
IL 78	220	220	221	222	223
IL 78	230	230	231	232	233
IL 78	240	240	241	242	243
IL 78	250	250	251	252	253

CURVE POINT NUMBERS					
CHAIN	CURVE	PI	CC	PC	PT
CANYON_RD	370	370	371	372	373
CANYON_RD	360	360	361	362	363
CANYON_RD	350	350	351	352	353
CANYON_RD	340	340	341	342	343
CANYON_RD	330	330	331	332	333
CANYON_RD	320	320	321	322	323
CANYON_RD	310	310	311	312	313
CANYON_RD	300	300	301	302	303
CANYON_RD	290	290	291	292	293

BENCH MARKS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
403	2091282.6917	2346040.8798	942.6411	IL 78	897+16.52	50.5911' LT	PLUG, PLUG
404	2093985.3500	2346054.8088	958.0627	IL 78	924+17.71	36.8067' RT	PLUG
408	2104565.6429	2345526.5937	980.4665	CANYON_RD	199+15.72	37.639' LT	PLUG, PLUG
412	2112376.6533	2345389.6008	945.0177	IL 78	1108+21.05	41.3576' LT	PLUG, PLUG
1403	2104594.8066	2338034.9771	887.6151	CANYON_RD	124+21.71	15.1205' RT	DISK, HEADWALL