

Point	Node ID	Station	Northing-(Y)	Easting-(X)
BOP	150	0+00.0000	100000.0000	100000.0000

Direction Distance

 S31°30'11.93"W 598.7298

Point	Node ID	Station	Northing-(Y)	Easting-(X)
PI	N/A	5+98.7298	99489.5170	99687.1350

Direction Distance

 N73°22'00.08"W 74.0798

Point	Node ID	Station	Northing-(Y)	Easting-(X)
PI	N/A	6+72.8096	99510.7220	99616.1550

Direction Distance

 S56°00'40.11"W 117.5908

Point	Node ID	Station	Northing-(Y)	Easting-(X)
PI	N/A	7+90.4004	99444.9850	99518.6550

Direction Distance

 S50°53'18.85"W 191.2193

Point	Node ID	Station	Northing-(Y)	Easting-(X)
PC	N/A	9+81.6197	99324.3583	99370.2837

Point	Node ID	Station	Northing-(Y)	Easting-(X)
RP	N/A	N/A	99717.2680	98932.8700

Circular Curve (CW)

 Radial In: N48°04'04.89"W
 D.O.C Arc: 09°44'40.84"
 D.O.C Chord: 09°45'23.26"
 Radius: 587.9700
 Delta angle: 02°20'42.93"
 Tangent length: 12.0352

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Arc length:      24.0671
Chord Direction: S43°06'16.57"W
Chord length:    24.0654
External:        0.1232
Middle ordinate: 0.1231
Radial Out:     S45°43'21.96"E
  
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Point	Node ID	Station	Northing- (Y)	Easting- (X)
PI	N/A	9+93.6550	99315.4049	99362.2412

Point	Node ID	Station	Northing- (Y)	Easting- (X)
PC	155	10+05.6868	99306.7880	99353.8390

Point	Node ID	Station	Northing- (Y)	Easting- (X)
RP	N/A	N/A	98726.6206	99948.8320

Circular Curve (CCW)

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Radial In:      S45°43'22.05"E
D.O.C Arc:      06°53'40.38"
D.O.C Chord:    06°53'55.38"
Radius:         831.0300
Delta angle:    13°10'27.98"
Tangent length: 95.9656
Arc length:     191.0848
Chord Direction: S37°41'23.96"W
Chord length:   190.6641
External:       5.5226
Middle ordinate: 5.4861
Radial Out:     N58°53'50.03"W
  
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Point	Node ID	Station	Northing- (Y)	Easting- (X)
PI	N/A	11+01.6524	99238.0795	99286.8425

Point	Node ID	Station	Northing- (Y)	Easting- (X)
PT	156	11+96.7716	99155.9100	99237.2690

Direction	Distance
S24°37'13.38"W	187.6001

Point	Node ID	Station	Northing- (Y)	Easting- (X)
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Point	Node ID	Station	Northing- (Y)	Easting- (X)
PC	N/A	13+84.3717	98985.3650	99159.1140
RP	N/A	N/A	98726.5972	99948.8268

Circular Curve (CCW)

Radial In: S71°51'26.69"E
 D.O.C Arc: 06°53'40.45"
 D.O.C Chord: 06°53'55.45"
 Radius: 831.0277
 Delta angle: 11°11'41.13"
 Tangent length: 81.4446
 Arc length: 162.3707
 Chord Direction: S12°32'42.74"W
 Chord length: 162.1125
 External: 3.9814
 Middle ordinate: 3.9625
 Radial Out: N83°03'07.82"W

Point	Node ID	Station	Northing- (Y)	Easting- (X)
PI	N/A	14+65.8163	98907.9695	99133.7536

Point	Node ID	Station	Northing- (Y)	Easting- (X)
PT	158	15+46.7424	98827.1230	99123.9020

Direction Distance
 S06°56'45.00"W 153.3500

Point	Node ID	Station	Northing- (Y)	Easting- (X)
PC	N/A	17+00.0924	98674.8981	99105.3565

Point	Node ID	Station	Northing- (Y)	Easting- (X)
RP	N/A	N/A	98748.2640	98503.1390

Circular Curve (CW)

Radial In: N83°03'14.74"W
 D.O.C Arc: 09°26'39.51"
 D.O.C Chord: 09°27'18.12"
 Radius: 606.6700
 Delta angle: 33°17'49.23"

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Tangent length: 181.4155
Arc length: 352.5617
Chord Direction: S23°35'39.87"W
Chord length: 347.6214
External: 26.5441
Middle ordinate: 25.4314
Radial Out: S49°45'25.51"E

Point	Node ID	Station	Northing-(Y)	Easting-(X)
PI	N/A	18+81.5080	98494.8140	99083.4175

Point	Node ID	Station	Northing-(Y)	Easting-(X)
PT	160	20+52.6541	98356.3370	98966.2180

Direction	Distance
S12°29'24.00"W	573.6100

Point	Node ID	Station	Northing-(Y)	Easting-(X)
PI	161	26+26.2641	97796.3022	98842.1638

Direction	Distance
S11°43'35.00"W	1047.0800

Point	Node ID	Station	Northing-(Y)	Easting-(X)
PI	163	36+73.3441	96771.0755	98629.3571

Direction	Distance
S08°14'37.00"W	852.2700

Point	Node ID	Station	Northing-(Y)	Easting-(X)
PI	165	45+25.6141	95927.6117	98507.1567

Direction	Distance
S14°38'28.00"W	1025.9000

Point	Node ID	Station	Northing-(Y)	Easting-(X)
PI	167	55+51.5141	94935.0246	98247.8464

=====
Direction Distance

S12°28'53.00"W 967.9500

Point	Node ID	Station	Northing- (Y)	Easting- (X)
PI	169	65+19.4641	93989.9509	98038.6507

Direction Distance

S18°55'49.00"W 600.2500

Point	Node ID	Station	Northing- (Y)	Easting- (X)
PI	171	71+19.7141	93422.1660	97843.9192

Direction Distance

S15°00'16.00"W 537.4000

Point	Node ID	Station	Northing- (Y)	Easting- (X)
PI	172	76+57.1141	92903.0882	97704.7896

Direction Distance

S09°10'00.00"W 497.1000

Point	Node ID	Station	Northing- (Y)	Easting- (X)
PI	173	81+54.2141	92412.3366	97625.5981

Direction Distance

S06°50'57.00"W 499.0200

Point	Node ID	Station	Northing- (Y)	Easting- (X)
PI	174	86+53.2341	91916.8779	97566.0870

Direction Distance

S10°48'13.00"W 503.7300

Point	Node ID	Station	Northing- (Y)	Easting- (X)
PI	175	91+56.9641	91422.0763	97471.6662

=====
Direction Distance

S03°57'55.00"W 494.7200

Point	Node ID	Station	Northing- (Y)	Easting- (X)
PI	176	96+51.6841	90928.5406	97437.4554

=====
Direction Distance

S10°34'58.00"W 501.9800

Point	Node ID	Station	Northing- (Y)	Easting- (X)
PI	177	101+53.6641	90435.0989	97345.2638

=====
Direction Distance

S04°49'54.00"W 496.2300

Point	Node ID	Station	Northing- (Y)	Easting- (X)
PI	178	106+49.8941	89940.6323	97303.4671

=====
Direction Distance

S04°38'19.00"W 502.5200

Point	Node ID	Station	Northing- (Y)	Easting- (X)
PI	179	111+52.4141	89439.7583	97262.8279

=====
Direction Distance

S00°44'49.00"E 498.5700

Point	Node ID	Station	Northing- (Y)	Easting- (X)
PI	180	116+50.9841	88941.2306	97269.3274

=====
Direction Distance

S03°57'33.00"W 498.5100

Point	Node ID	Station	Northing- (Y)	Easting- (X)
PI	181	121+49.4941	88443.9103	97234.9076

=====
Direction Distance

S02°45'39.00"W 459.0400

Point Node ID Station Northing-(Y) Easting-(X)

PI 182 126+08.5341 87985.4031 97212.7970

Direction Distance

S02°13'59.00"W 485.5600

Point Node ID Station Northing-(Y) Easting-(X)

PI 183 130+94.0941 87500.2119 97193.8775

Direction Distance

S01°01'28.00"W 497.2700

Point Node ID Station Northing-(Y) Easting-(X)

PI 184 135+91.3641 87003.0214 97184.9868

Direction Distance

S03°55'16.00"W 504.9600

Point Node ID Station Northing-(Y) Easting-(X)

PI 185 140+96.3241 86499.2434 97150.4562

Direction Distance

S09°32'57.00"W 511.1100

Point Node ID Station Northing-(Y) Easting-(X)

PI 186 146+07.4341 85995.2155 97065.6661

Direction Distance

S09°12'13.00"W 509.3700

Point Node ID Station Northing-(Y) Easting-(X)

PI 187 151+16.8041 85492.4031 96984.1958

=====
Direction Distance

S09°12'42.00"W 490.1300

Point	Node ID	Station	Northing- (Y)	Easting- (X)
PI	188	156+06.9341	85008.5939	96905.7347

Direction Distance

S08°32'55.00"W 496.4100

Point	Node ID	Station	Northing- (Y)	Easting- (X)
PI	189	161+03.3441	84517.6990	96831.9441

Direction Distance

S08°26'59.00"W 499.7900

Point	Node ID	Station	Northing- (Y)	Easting- (X)
PI	190	166+03.1341	84023.3341	96758.5042

Direction Distance

S09°10'40.00"W 518.1900

Point	Node ID	Station	Northing- (Y)	Easting- (X)
PI	191	171+21.3241	83511.7779	96675.8538

Direction Distance

S07°47'00.00"W 481.6600

Point	Node ID	Station	Northing- (Y)	Easting- (X)
PI	192	176+02.9841	83034.5553	96610.6238

Direction Distance

S10°48'59.00"W 500.3700

Point	Node ID	Station	Northing- (Y)	Easting- (X)
PI	193	181+03.3541	82543.0751	96516.7233

=====
Direction Distance

S11°22'44.00"W 500.3100

Point	Node ID	Station	Northing- (Y)	Easting- (X)
PI	194	186+03.6641	82052.5992	96418.0140

Direction Distance

S15°01'25.00"W 508.7300

Point	Node ID	Station	Northing- (Y)	Easting- (X)
PI	195	191+12.3941	81561.2580	96286.1425

Direction Distance

S09°47'49.00"W 496.2500

Point	Node ID	Station	Northing- (Y)	Easting- (X)
PI	196	196+08.6441	81072.2449	96201.7022

Direction Distance

S08°18'28.00"W 493.5300

Point	Node ID	Station	Northing- (Y)	Easting- (X)
PI	197	201+02.1741	80583.8939	96130.3917

Direction Distance

S07°44'47.00"W 495.1400

Point	Node ID	Station	Northing- (Y)	Easting- (X)
PI	198	205+97.3141	80093.2723	96063.6526

Direction Distance

S08°04'57.00"W 494.1700

Point	Node ID	Station	Northing- (Y)	Easting- (X)
PI	199	210+91.4841	79604.0111	95994.1728

=====
Direction Distance

S07°59'43.00"W 499.0300

Point	Node ID	Station	Northing- (Y)	Easting- (X)
PI	200	215+90.5141	79109.8319	95924.7620

Direction Distance

S07°11'49.00"W 487.7800

Point	Node ID	Station	Northing- (Y)	Easting- (X)
PI	201	220+78.2941	78625.8949	95863.6528

Direction Distance

S07°06'16.00"W 517.3100

Point	Node ID	Station	Northing- (Y)	Easting- (X)
PI	202	225+95.6041	78112.5567	95799.6727

Direction Distance

S08°46'14.00"W 476.9900

Point	Node ID	Station	Northing- (Y)	Easting- (X)
PI	203	230+72.5941	77641.1442	95726.9422

Direction Distance

S08°14'32.00"W 523.0900

Point	Node ID	Station	Northing- (Y)	Easting- (X)
PI	204	235+95.6841	77123.4572	95651.9529

Direction Distance

S04°47'10.00"W 498.9500

Point	Node ID	Station	Northing- (Y)	Easting- (X)
PI	205	240+94.6341	76626.2470	95610.3224

=====
Direction Distance

S10°43'27.00"E 361.4000

Point Node ID Station Northing- (Y) Easting- (X)

PI 206 244+56.0341 76271.1591 95677.5721

=====
Direction Distance

S01°40'36.00"W 1133.3600

Point Node ID Station Northing- (Y) Easting- (X)

PI 208 255+89.3941 75138.2843 95644.4109

=====
Direction Distance

S05°35'11.00"W 872.8700

Point Node ID Station Northing- (Y) Easting- (X)

PI 210 264+62.2641 74269.5600 95559.4401

=====
Direction Distance

S10°32'20.00"W 1078.2100

Point Node ID Station Northing- (Y) Easting- (X)

PI 212 275+40.4741 73209.5383 95362.2324

=====
Direction Distance

S06°58'02.00"W 863.2700

Point Node ID Station Northing- (Y) Easting- (X)

PI 214 284+03.7441 72352.6429 95257.5165

=====
Direction Distance

S06°46'16.00"W 1690.6600

Point Node ID Station Northing- (Y) Easting- (X)

PI 216 300+94.4041 70673.7752 95058.1821

=====
Direction Distance

S06°38'23.00"W 5259.4900

Point Node ID Station Northing- (Y) Easting- (X)

PI 217 353+53.8941 65449.5614 94450.0493

=====
Direction Distance

S08°46'48.00"W 4185.2000

Point Node ID Station Northing- (Y) Easting- (X)

PI 218 395+39.0941 61313.4047 93811.2167

=====
Direction Distance

S10°25'13.00"W 2793.3300

Point Node ID Station Northing- (Y) Easting- (X)

PI 219 423+32.4241 58566.1437 93305.9948

=====
Direction Distance

S07°09'58.00"W 2660.3100

Point Node ID Station Northing- (Y) Easting- (X)

PI 220 449+92.7341 55926.6142 92974.1307

=====
Direction Distance

S01°51'46.00"W 4171.2900

Point Node ID Station Northing- (Y) Easting- (X)

PI 221 491+64.0241 51757.5286 92838.5393

=====
Direction Distance

S05°09'17.00"W 2682.6300

Point Node ID Station Northing- (Y) Easting- (X)

PI 222 518+46.6541 49085.7479 92597.5169

=====
Direction Distance

S00°14'48.00"E 3083.7300

Point	Node ID	Station	Northing- (Y)	Easting- (X)
PI	223	549+30.3841	46002.0465	92610.7928

=====
Direction Distance

S06°50'10.00"W 5467.5500

Point	Node ID	Station	Northing- (Y)	Easting- (X)
EOP	224	603+97.9341	40573.3670	91959.9916