

Vertical Alignment: Rua A

Description:

Station Range: Start: 0+000.000, End: 940+500.000

PVI	Station	Grade Out	Curve Length
0.00	0+000.000	-0.90%	
1.00	0+069.005	0.80%	34.000m
Vertical Curve Information:(sag curve) ----- PVC Station: 0+052.005 Elevation: 33.436m PVI Station: 0+069.005 Elevation: 33.283m PVT Station: 0+086.005 Elevation: 33.419m Low Point: 0+070.005 Elevation: 33.355m Grade in: -0.90% Grade out: 0.80% Change: 1.70% K: 20.0000000000002117 Curve Length: 34.000m Headlight Distance:			
2.00	0+261.294	3.75%	44.250m
Vertical Curve Information:(sag curve) ----- PVC Station: 0+239.169 Elevation: 34.644m PVI Station: 0+261.294 Elevation: 34.821m PVT Station: 0+283.419 Elevation: 35.651m Low Point: 0+239.169 Elevation: 34.644m Grade in: 0.80% Grade out: 3.75% Change: 2.95% K: 14.999999999999657 Curve Length: 44.250m Headlight Distance: 220.233m			
3.00	0+367.363	-0.60%	65.251m
Vertical Curve Information:(crest curve) ----- PVC Station: 0+334.738 Elevation: 37.575m PVI Station: 0+367.363 Elevation: 38.799m PVT Station: 0+399.989 Elevation: 38.603m High Point: 0+390.988 Elevation: 38.630m Grade in: 3.75% Grade out: -0.60% Change: 4.35% K: 15.000000000000054 Curve Length: 65.251m Passing Distance: 153.929m Stopping Distance: 111.046m			
4.00	0+496.642	-2.75%	32.249m

	Vertical Curve Information:(crest curve) -----		
	PVC Station:	0+480.517	Elevation: 38.120m
	PVI Station:	0+496.642	Elevation: 38.023m
	PVT Station:	0+512.766	Elevation: 37.580m
	High Point:	0+480.517	Elevation: 38.120m
	Grade in:	-0.60%	Grade out: -2.75%
	Change:	2.15%	K: 15.000000000001226
	Curve Length:	32.249m	
	Passing Distance:	261.562m	Stopping Distance: 174.794m
5.00	0+575.514	3.30%	54.448m
	Vertical Curve Information:(sag curve) -----		
	PVC Station:	0+548.290	Elevation: 36.603m
	PVI Station:	0+575.514	Elevation: 35.854m
	PVT Station:	0+602.738	Elevation: 36.752m
	Low Point:	0+573.040	Elevation: 36.262m
	Grade in:	-2.75%	Grade out: 3.30%
	Change:	6.05%	K: 8.999999999999824
	Curve Length:	54.448m	
	Headlight Distance:	84.730m	
6.00	0+699.130	1.00%	36.788m
	Vertical Curve Information:(crest curve) -----		
	PVC Station:	0+680.736	Elevation: 39.326m
	PVI Station:	0+699.130	Elevation: 39.933m
	PVT Station:	0+717.524	Elevation: 40.117m
	High Point:	0+717.524	Elevation: 40.117m
	Grade in:	3.30%	Grade out: 1.00%
	Change:	2.30%	K: 15.999999999999613
	Curve Length:	36.788m	
	Passing Distance:	247.895m	Stopping Distance: 166.761m
7.00	0+747.805	-2.20%	32.005m
	Vertical Curve Information:(crest curve) -----		
	PVC Station:	0+731.802	Elevation: 40.260m
	PVI Station:	0+747.805	Elevation: 40.420m
	PVT Station:	0+763.807	Elevation: 40.068m
	High Point:	0+741.808	Elevation: 40.310m
	Grade in:	1.00%	Grade out: -2.20%

	Change: 3.20% K: 9.999999999999941 Curve Length: 32.005m Passing Distance: 180.879m Stopping Distance: 122.591m		
8.00	0+808.897	-0.50%	25.499m
	Vertical Curve Information:(sag curve) PVC Station: 0+796.148 Elevation: 39.356m PVI Station: 0+808.897 Elevation: 39.076m PVT Station: 0+821.647 Elevation: 39.012m Low Point: 0+821.647 Elevation: 39.012m Grade in: -2.20% Grade out: -0.50% Change: 1.70% K: 15.0000000000009953 Curve Length: 25.499m Headlight Distance:		
9.00	0+859.924	-2.35%	18.450m
	Vertical Curve Information:(crest curve) PVC Station: 0+850.698 Elevation: 38.867m PVI Station: 0+859.924 Elevation: 38.821m PVT Station: 0+869.149 Elevation: 38.605m High Point: 0+850.698 Elevation: 38.867m Grade in: -0.50% Grade out: -2.35% Change: 1.85% K: 10.0000000000000895 Curve Length: 18.450m Passing Distance: 295.225m Stopping Distance: 194.117m		
10.00	0+900.209	2.00%	34.760m
	Vertical Curve Information:(sag curve) PVC Station: 0+882.828 Elevation: 38.284m PVI Station: 0+900.209 Elevation: 37.876m PVT Station: 0+917.589 Elevation: 38.224m Low Point: 0+901.589 Elevation: 38.064m Grade in: -2.35% Grade out: 2.00% Change: 4.35% K: 7.999999999999972 Curve Length: 34.760m Headlight Distance: 105.987m		
11.00	0+929.500	0.00%	
12.00	0+940.500		

Vertical Alignment: Rua B

Description:

Station Range: Start: 0+000.000, End: 7059+995.000

PVI	Station	Grade Out	Curve Length
0.00	0+000.000	0.00%	
1.00	0+010.997	-2.00%	
2.00	0+021.994	0.50%	
3.00	0+087.797	-0.90%	31.500m
Vertical Curve Information:(crest curve) <hr/> PVC Station: 0+072.047 Elevation: 38.018m PVI Station: 0+087.797 Elevation: 38.097m PVT Station: 0+103.547 Elevation: 37.955m High Point: 0+083.297 Elevation: 38.046m Grade in: 0.50% Grade out: -0.90% Change: 1.40% K: 22.500000000002363 Curve Length: 31.500m Passing Distance: 392.663m Stopping Distance: 259.416m			
4.00	0+296.247	0.70%	80.000m
Vertical Curve Information:(sag curve) <hr/> PVC Station: 0+256.247 Elevation: 36.581m PVI Station: 0+296.247 Elevation: 36.221m PVT Station: 0+336.247 Elevation: 36.501m Low Point: 0+301.247 Elevation: 36.378m Grade in: -0.90% Grade out: 0.70% Change: 1.60% K: 49.99999999999996 Curve Length: 80.000m Headlight Distance:			
5.00	0+465.278	-2.10%	140.099m
Vertical Curve Information:(crest curve) <hr/> PVC Station: 0+395.228 Elevation: 36.913m PVI Station: 0+465.278 Elevation: 37.404m PVT Station: 0+535.327 Elevation: 35.931m High Point: 0+430.228 Elevation: 37.036m Grade in: 0.70% Grade out: -2.10% Change: 2.80% K: 49.99999999999976 Curve Length: 140.099m			

	Passing Distance: 258.373m Stopping Distance: 191.796m		
6.00	0+655.699	-2.45%	22.621m
	Vertical Curve Information:(crest curve) PVC Station: 0+644.389 Elevation: 33.639m PVI Station: 0+655.699 Elevation: 33.401m PVT Station: 0+667.010 Elevation: 33.124m High Point: 0+644.389 Elevation: 33.639m Grade in: -2.10% Grade out: -2.45% Change: 0.35% K: 64.99999999988013 Curve Length: 22.621m Passing Distance: 1,527.572m Stopping Distance: 991.540m		
7.00	0+790.985	-0.90%	23.250m
	Vertical Curve Information:(sag curve) PVC Station: 0+779.360 Elevation: 30.371m PVI Station: 0+790.985 Elevation: 30.087m PVT Station: 0+802.610 Elevation: 29.982m Low Point: 0+802.610 Elevation: 29.982m Grade in: -2.45% Grade out: -0.90% Change: 1.55% K: 15.000000000000387 Curve Length: 23.250m Headlight Distance:		
8.00	0+991.343	-0.60%	19.800m
	Vertical Curve Information:(sag curve) PVC Station: 0+981.443 Elevation: 28.372m PVI Station: 0+991.343 Elevation: 28.283m PVT Station: 1+001.243 Elevation: 28.224m Low Point: 1+001.243 Elevation: 28.224m Grade in: -0.90% Grade out: -0.60% Change: 0.30% K: 65.99999999998684 Curve Length: 19.800m Headlight Distance:		
9.00	1+238.759	0.50%	66.000m
	Vertical Curve Information:(sag curve) PVC Station: 1+205.759 Elevation: 26.997m PVI Station: 1+238.759 Elevation: 26.799m PVT Station: 1+271.759 Elevation: 26.964m		

	Low Point: 1+241.759 Elevation: 26.889m Grade in: -0.60% Grade out: 0.50% Change: 1.10% K: 60.000000000000138 Curve Length: 66.000m Headlight Distance:		
10.00	1+528.218	-0.50%	30.000m
	Vertical Curve Information:(crest curve) PVC Station: 1+513.218 Elevation: 28.171m PVI Station: 1+528.218 Elevation: 28.246m PVT Station: 1+543.218 Elevation: 28.171m High Point: 1+528.218 Elevation: 28.209m Grade in: 0.50% Grade out: -0.50% Change: 1.00% K: 29.99999999999926 Curve Length: 30.000m Passing Distance: 542.679m Stopping Distance: 356.132m		
11.00	1+727.253	-0.95%	47.070m
	Vertical Curve Information:(crest curve) PVC Station: 1+703.718 Elevation: 27.369m PVI Station: 1+727.253 Elevation: 27.251m PVT Station: 1+750.788 Elevation: 27.027m High Point: 1+703.718 Elevation: 27.369m Grade in: -0.50% Grade out: -0.95% Change: 0.45% K: 104.600000000000205 Curve Length: 47.070m Passing Distance: 1,196.154m Stopping Distance: 781.607m		
12.00	1+830.942	0.65%	32.000m
	Vertical Curve Information:(sag curve) PVC Station: 1+814.942 Elevation: 26.418m PVI Station: 1+830.942 Elevation: 26.266m PVT Station: 1+846.942 Elevation: 26.370m Low Point: 1+833.942 Elevation: 26.328m Grade in: -0.95% Grade out: 0.65% Change: 1.60% K: 19.999999999998526 Curve Length: 32.000m Headlight Distance:		
13.00	2+095.445	1.85%	33.600m

	Vertical Curve Information:(sag curve)		
	PVC Station:	2+078.645	Elevation: 27.876m
	PVI Station:	2+095.445	Elevation: 27.985m
	PVT Station:	2+112.245	Elevation: 28.296m
	Low Point:	2+078.645	Elevation: 27.876m
	Grade in:	0.65%	Grade out: 1.85%
	Change:	1.20%	K: 27.99999999998717
	Curve Length:	33.600m	
	Headlight Distance:		
14.00	2+180.510	-0.90%	55.000m
	Vertical Curve Information:(crest curve)		
	PVC Station:	2+153.010	Elevation: 29.050m
	PVI Station:	2+180.510	Elevation: 29.559m
	PVT Station:	2+208.010	Elevation: 29.311m
	High Point:	2+190.010	Elevation: 29.392m
	Grade in:	1.85%	Grade out: -0.90%
	Change:	2.75%	K: 20.000000000000057
	Curve Length:	55.000m	
	Passing Distance:	219.383m	Stopping Distance: 151.548m
15.00	2+335.777	-0.55%	22.750m
	Vertical Curve Information:(sag curve)		
	PVC Station:	2+324.402	Elevation: 28.264m
	PVI Station:	2+335.777	Elevation: 28.162m
	PVT Station:	2+347.152	Elevation: 28.099m
	Low Point:	2+347.152	Elevation: 28.099m
	Grade in:	-0.90%	Grade out: -0.55%
	Change:	0.35%	K: 64.99999999995747
	Curve Length:	22.750m	
	Headlight Distance:		
16.00	2+754.706	0.50%	36.120m
	Vertical Curve Information:(sag curve)		
	PVC Station:	2+736.646	Elevation: 25.957m
	PVI Station:	2+754.706	Elevation: 25.857m
	PVT Station:	2+772.766	Elevation: 25.948m
	Low Point:	2+755.566	Elevation: 25.905m
	Grade in:	-0.55%	Grade out: 0.50%

	Change: 1.05% K: 34.40000000709298 Curve Length: 36.120m Headlight Distance:		
17.00	2+841.731	-1.00%	22.473m
	Vertical Curve Information:(crest curve) PVC Station: 2+830.494 Elevation: 26.236m PVI Station: 2+841.731 Elevation: 26.293m PVT Station: 2+852.967 Elevation: 26.180m High Point: 2+837.994 Elevation: 26.255m Grade in: 0.50% Grade out: -1.00% Change: 1.50% K: 15.000000000000703 Curve Length: 22.473m Passing Distance: 363.445m Stopping Distance: 238.931m		
18.00	3+676.301	1.30%	18.386m
	Vertical Curve Information:(sag curve) PVC Station: 3+667.109 Elevation: 18.054m PVI Station: 3+676.301 Elevation: 17.962m PVT Station: 3+685.494 Elevation: 18.081m Low Point: 3+675.094 Elevation: 18.014m Grade in: -1.00% Grade out: 1.30% Change: 2.30% K: 7.999999999999766 Curve Length: 18.386m Headlight Distance: 400.090m		
19.00	3+725.977	3.25%	19.548m
	Vertical Curve Information:(sag curve) PVC Station: 3+716.203 Elevation: 18.481m PVI Station: 3+725.977 Elevation: 18.608m PVT Station: 3+735.751 Elevation: 18.926m Low Point: 3+716.203 Elevation: 18.481m Grade in: 1.30% Grade out: 3.25% Change: 1.95% K: 9.999999999999723 Curve Length: 19.548m Headlight Distance: 1,047.023m		
20.00	3+778.088	-1.95%	78.072m
	Vertical Curve Information:(crest curve) PVC Station: 3+739.052 Elevation: 19.033m		

	PVI Station: 3+778.088 Elevation: 20.304m PVT Station: 3+817.124 Elevation: 19.543m High Point: 3+787.874 Elevation: 19.828m Grade in: 3.25% Grade out: -1.95% Change: 5.20% K: 14.99999999999954 Curve Length: 78.072m Passing Distance: 140.419m Stopping Distance: 104.578m		
21.00	3+893.255	-1.00%	20.425m
	Vertical Curve Information:(sag curve) PVC Station: 3+883.043 Elevation: 18.257m PVI Station: 3+893.255 Elevation: 18.058m PVT Station: 3+903.468 Elevation: 17.956m Low Point: 3+903.468 Elevation: 17.956m Grade in: -1.95% Grade out: -1.00% Change: 0.95% K: 21.499999999999226 Curve Length: 20.425m Headlight Distance:		
22.00	3+983.751	-0.50%	20.340m
	Vertical Curve Information:(sag curve) PVC Station: 3+973.581 Elevation: 17.255m PVI Station: 3+983.751 Elevation: 17.153m PVT Station: 3+993.921 Elevation: 17.102m Low Point: 3+993.921 Elevation: 17.102m Grade in: -1.00% Grade out: -0.50% Change: 0.50% K: 40.680000000000177 Curve Length: 20.340m Headlight Distance:		
23.00	4+155.114	0.75%	21.000m
	Vertical Curve Information:(sag curve) PVC Station: 4+144.614 Elevation: 16.349m PVI Station: 4+155.114 Elevation: 16.296m PVT Station: 4+165.614 Elevation: 16.375m Low Point: 4+153.014 Elevation: 16.328m Grade in: -0.50% Grade out: 0.75% Change: 1.25% K: 16.799999999999816 Curve Length: 21.000m		

	Headlight Distance:		
24.00	4+283.715	-0.95%	54.060m
	Vertical Curve Information:(crest curve)		
	PVC Station:	4+256.685	Elevation: 17.058m
	PVI Station:	4+283.715	Elevation: 17.261m
	PVT Station:	4+310.745	Elevation: 17.004m
	High Point:	4+280.535	Elevation: 17.147m
	Grade in:	0.75%	Grade out: -0.95%
	Change:	1.70%	K: 31.800000000000026
	Curve Length:	54.060m	
	Passing Distance:	337.429m	Stopping Distance: 227.696m
25.00	4+501.317	0.50%	25.230m
	Vertical Curve Information:(sag curve)		
	PVC Station:	4+488.702	Elevation: 15.313m
	PVI Station:	4+501.317	Elevation: 15.193m
	PVT Station:	4+513.932	Elevation: 15.257m
	Low Point:	4+505.232	Elevation: 15.235m
	Grade in:	-0.95%	Grade out: 0.50%
	Change:	1.45%	K: 17.40000000015297
	Curve Length:	25.230m	
	Headlight Distance:		
26.00	4+631.657	-1.20%	51.070m
	Vertical Curve Information:(crest curve)		
	PVC Station:	4+606.122	Elevation: 15.718m
	PVI Station:	4+631.657	Elevation: 15.845m
	PVT Station:	4+657.192	Elevation: 15.538m
	High Point:	4+621.122	Elevation: 15.755m
	Grade in:	0.50%	Grade out: -1.20%
	Change:	1.70%	K: 30.000000000000313
	Curve Length:	51.070m	
	Passing Distance:	335.510m	Stopping Distance: 225.927m
27.00	4+783.108	0.50%	39.579m
	Vertical Curve Information:(sag curve)		
	PVC Station:	4+763.319	Elevation: 14.262m
	PVI Station:	4+783.108	Elevation: 14.024m
	PVT Station:	4+802.898	Elevation: 14.123m

	Low Point: 4+791.273 Elevation: 14.094m Grade in: -1.20% Grade out: 0.50% Change: 1.70% K: 23.250000000000433 Curve Length: 39.579m Headlight Distance:		
28.00	4+965.619	-0.50%	30.000m
	Vertical Curve Information:(crest curve) PVC Station: 4+950.619 Elevation: 14.862m PVI Station: 4+965.619 Elevation: 14.937m PVT Station: 4+980.619 Elevation: 14.862m High Point: 4+965.619 Elevation: 14.899m Grade in: 0.50% Grade out: -0.50% Change: 1.00% K: 29.9999999992027 Curve Length: 30.000m Passing Distance: 542.679m Stopping Distance: 356.132m		
29.00	5+160.396	0.85%	50.396m
	Vertical Curve Information:(sag curve) PVC Station: 5+135.198 Elevation: 14.089m PVI Station: 5+160.396 Elevation: 13.963m PVT Station: 5+185.594 Elevation: 14.178m Low Point: 5+153.798 Elevation: 14.042m Grade in: -0.50% Grade out: 0.85% Change: 1.35% K: 37.200000000000029 Curve Length: 50.396m Headlight Distance:		
30.00	5+337.686	-0.50%	25.740m
	Vertical Curve Information:(crest curve) PVC Station: 5+324.816 Elevation: 15.368m PVI Station: 5+337.686 Elevation: 15.478m PVT Station: 5+350.555 Elevation: 15.414m High Point: 5+341.055 Elevation: 15.438m Grade in: 0.85% Grade out: -0.50% Change: 1.35% K: 18.999999999999996 Curve Length: 25.740m Passing Distance: 402.379m Stopping Distance: 264.679m		
31.00	5+463.384	0.85%	45.900m

	Vertical Curve Information:(sag curve)		
	PVC Station:	5+440.434	Elevation: 14.965m
	PVI Station:	5+463.384	Elevation: 14.850m
	PVT Station:	5+486.334	Elevation: 15.045m
	Low Point:	5+457.434	Elevation: 14.922m
	Grade in:	-0.50%	Grade out: 0.85%
	Change:	1.35%	K: 34.000000000000137
	Curve Length:	45.900m	
	Headlight Distance:		
32.00	5+557.767	-0.50%	20.250m
	Vertical Curve Information:(crest curve)		
	PVC Station:	5+547.642	Elevation: 15.566m
	PVI Station:	5+557.767	Elevation: 15.652m
	PVT Station:	5+567.892	Elevation: 15.601m
	High Point:	5+560.392	Elevation: 15.620m
	Grade in:	0.85%	Grade out: -0.50%
	Change:	1.35%	K: 15.000000000000297
	Curve Length:	20.250m	
	Passing Distance:	400.998m	Stopping Distance: 262.816m
33.00	5+784.959	0.55%	50.061m
	Vertical Curve Information:(sag curve)		
	PVC Station:	5+759.929	Elevation: 14.641m
	PVI Station:	5+784.959	Elevation: 14.516m
	PVT Station:	5+809.989	Elevation: 14.653m
	Low Point:	5+783.829	Elevation: 14.581m
	Grade in:	-0.50%	Grade out: 0.55%
	Change:	1.05%	K: 47.79999999999914
	Curve Length:	50.061m	
	Headlight Distance:		
34.00	6+162.163	0.90%	19.998m
	Vertical Curve Information:(sag curve)		
	PVC Station:	6+152.163	Elevation: 16.526m
	PVI Station:	6+162.163	Elevation: 16.580m
	PVT Station:	6+172.162	Elevation: 16.670m
	Low Point:	6+152.163	Elevation: 16.526m
	Grade in:	0.55%	Grade out: 0.90%

	Change: 0.35% K: 56.69999999988066 Curve Length: 19.998m Headlight Distance:		
35.00	6+256.520	0.50%	25.200m
	Vertical Curve Information:(crest curve) PVC Station: 6+243.920 Elevation: 17.316m PVI Station: 6+256.520 Elevation: 17.430m PVT Station: 6+269.120 Elevation: 17.493m High Point: 6+269.120 Elevation: 17.493m Grade in: 0.90% Grade out: 0.50% Change: 0.40% K: 63.00000000024786 Curve Length: 25.200m Passing Distance: 1,331.796m Stopping Distance: 865.431m		
36.00	6+395.409	0.75%	16.774m
	Vertical Curve Information:(sag curve) PVC Station: 6+387.022 Elevation: 18.082m PVI Station: 6+395.409 Elevation: 18.124m PVT Station: 6+403.796 Elevation: 18.187m Low Point: 6+387.022 Elevation: 18.082m Grade in: 0.50% Grade out: 0.75% Change: 0.25% K: 66.00000000005548 Curve Length: 16.774m Headlight Distance:		
37.00	6+604.412	1.80%	20.917m
	Vertical Curve Information:(sag curve) PVC Station: 6+593.953 Elevation: 19.621m PVI Station: 6+604.412 Elevation: 19.700m PVT Station: 6+614.870 Elevation: 19.889m Low Point: 6+593.953 Elevation: 19.621m Grade in: 0.75% Grade out: 1.80% Change: 1.05% K: 20.0000000000798 Curve Length: 20.917m Headlight Distance:		
38.00	6+733.694	2.80%	20.400m
	Vertical Curve Information:(sag curve) PVC Station: 6+723.494 Elevation: 21.844m		

	PVI Station: 6+733.694 Elevation: 22.027m PVT Station: 6+743.894 Elevation: 22.313m Low Point: 6+723.494 Elevation: 21.844m Grade in: 1.80% Grade out: 2.80% Change: 1.00% K: 20.39999999999856 Curve Length: 20.400m Headlight Distance:		
39.00	6+852.591	2.20%	15.000m
	Vertical Curve Information:(crest curve) PVC Station: 6+845.091 Elevation: 25.147m PVI Station: 6+852.591 Elevation: 25.357m PVT Station: 6+860.091 Elevation: 25.522m High Point: 6+860.091 Elevation: 25.522m Grade in: 2.80% Grade out: 2.20% Change: 0.60% K: 24.99999999997599 Curve Length: 15.000m Passing Distance: 886.964m Stopping Distance: 576.054m		
40.00	6+945.726	1.40%	19.907m
	Vertical Curve Information:(crest curve) PVC Station: 6+935.772 Elevation: 27.187m PVI Station: 6+945.726 Elevation: 27.406m PVT Station: 6+955.679 Elevation: 27.545m High Point: 6+955.679 Elevation: 27.545m Grade in: 2.20% Grade out: 1.40% Change: 0.80% K: 25.000000000000444 Curve Length: 19.907m Passing Distance: 672.647m Stopping Distance: 438.370m		
41.00	7+001.111	-1.25%	43.556m
	Vertical Curve Information:(crest curve) PVC Station: 6+979.333 Elevation: 27.877m PVI Station: 7+001.111 Elevation: 28.183m PVT Station: 7+022.889 Elevation: 27.911m High Point: 7+002.373 Elevation: 28.039m Grade in: 1.40% Grade out: -1.25% Change: 2.65% K: 16.413174627608093 Curve Length: 43.556m		

	Passing Distance: 220.622m Stopping Distance: 150.327m		
42.00	7+033.934	0.50%	7.926m
	Vertical Curve Information:(sag curve) <div> <div>PVC Station: 7+029.971 Elevation: 27.822m</div> <div>PVI Station: 7+033.934 Elevation: 27.773m</div> <div>PVT Station: 7+037.897 Elevation: 27.793m</div> <div>Low Point: 7+035.632 Elevation: 27.787m</div> <div>Grade in: -1.25% Grade out: 0.50%</div> <div>Change: 1.75% K: 4.528967855960108</div> <div>Curve Length: 7.926m</div> <div>Headlight Distance: 46,173.098m</div> </div>		
43.00	7+050.995	0.00%	
44.00	7+059.995		

Vertical Alignment: Rua C

Description:

Station Range: Start: 0+000.000, End: 1045+688.000

PVI	Station	Grade Out	Curve Length
0.00	0+000.000	0.00%	
1.00	0+008.999	-2.00%	
2.00	0+043.055	-7.00%	45.032m
Vertical Curve Information:(crest curve) <hr/> PVC Station: 0+020.538 Elevation: 27.123m PVI Station: 0+043.055 Elevation: 26.673m PVT Station: 0+065.571 Elevation: 25.097m High Point: 0+020.538 Elevation: 27.123m Grade in: -2.00% Grade out: -7.00% Change: 5.00% K: 9.000000000000057 Curve Length: 45.032m Passing Distance: 127.976m Stopping Distance: 90.694m			
3.00	0+129.620	-5.10%	28.510m
Vertical Curve Information:(sag curve) <hr/> PVC Station: 0+115.365 Elevation: 21.611m PVI Station: 0+129.620 Elevation: 20.614m PVT Station: 0+143.875 Elevation: 19.887m Low Point: 0+143.875 Elevation: 19.887m Grade in: -7.00% Grade out: -5.10% Change: 1.90% K: 15.000000000001796 Curve Length: 28.510m Headlight Distance: 1,463.712m			
4.00	0+224.859	-3.40%	40.101m
Vertical Curve Information:(sag curve) <hr/> PVC Station: 0+204.809 Elevation: 16.779m PVI Station: 0+224.859 Elevation: 15.757m PVT Station: 0+244.909 Elevation: 15.075m Low Point: 0+244.909 Elevation: 15.075m Grade in: -5.10% Grade out: -3.40% Change: 1.70% K: 23.599999999999948 Curve Length: 40.101m Headlight Distance:			

5.00	0+332.854	-4.60%	20.037m
	Vertical Curve Information:(crest curve)		
	PVC Station:	0+322.835 Elevation:	12.426m
	PVI Station:	0+332.854 Elevation:	12.085m
	PVT Station:	0+342.873 Elevation:	11.624m
	High Point:	0+322.835 Elevation:	12.426m
	Grade in:	-3.40% Grade out:	-4.60%
	Change:	1.20% K:	16.700000002027018
	Curve Length:	20.037m	
	Passing Distance:	449.808m Stopping Distance:	294.333m
6.00	0+476.531	-0.50%	49.200m
	Vertical Curve Information:(sag curve)		
	PVC Station:	0+451.931 Elevation:	6.607m
	PVI Station:	0+476.531 Elevation:	5.476m
	PVT Station:	0+501.131 Elevation:	5.353m
	Low Point:	0+501.131 Elevation:	5.353m
	Grade in:	-4.60% Grade out:	-0.50%
	Change:	4.10% K:	12.000000000379623
	Curve Length:	49.200m	
	Headlight Distance:	127.781m	
7.00	0+783.325	0.50%	20.000m
	Vertical Curve Information:(sag curve)		
	PVC Station:	0+773.325 Elevation:	3.992m
	PVI Station:	0+783.325 Elevation:	3.942m
	PVT Station:	0+793.325 Elevation:	3.992m
	Low Point:	0+783.325 Elevation:	3.967m
	Grade in:	-0.50% Grade out:	0.50%
	Change:	1.00% K:	19.99999999973948
	Curve Length:	20.000m	
	Headlight Distance:		
8.00	0+932.302	-0.55%	20.044m
	Vertical Curve Information:(crest curve)		
	PVC Station:	0+922.280 Elevation:	4.637m
	PVI Station:	0+932.302 Elevation:	4.687m
	PVT Station:	0+942.324 Elevation:	4.631m
	High Point:	0+931.780 Elevation:	4.660m

	Grade in: 0.50% Grade out: -0.55% Change: 1.05% K: 18.999999999999815 Curve Length: 20.044m Passing Distance: 510.222m Stopping Distance: 333.390m		
9.00	1+028.940	2.10%	21.278m
	Vertical Curve Information:(sag curve) PVC Station: 1+018.301 Elevation: 4.210m PVI Station: 1+028.940 Elevation: 4.150m PVT Station: 1+039.580 Elevation: 4.374m Low Point: 1+022.741 Elevation: 4.197m Grade in: -0.55% Grade out: 2.10% Change: 2.66% K: 7.999999999999864 Curve Length: 21.278m Headlight Distance: 249.698m		
10.00	1+045.688		

Vertical Alignment: Rotunda 1

Description:

Station Range: Start: 0+000.000, End: 138+230.000

PVI	Station	Grade Out	Curve Length
0.00	0+000.000	-1.00%	
1.00	0+073.580	1.50%	29.987m
Vertical Curve Information:(sag curve) <hr/> PVC Station: 0+058.586 Elevation: 37.657m PVI Station: 0+073.580 Elevation: 37.507m PVT Station: 0+088.573 Elevation: 37.732m Low Point: 0+070.573 Elevation: 37.597m Grade in: -1.00% Grade out: 1.50% Change: 2.50% K: 11.999999999999904 Curve Length: 29.987m Headlight Distance: 315.190m			
2.00	0+128.857	-1.00%	17.533m
Vertical Curve Information:(crest curve) <hr/> PVC Station: 0+120.091 Elevation: 38.205m PVI Station: 0+128.857 Elevation: 38.336m PVT Station: 0+137.624 Elevation: 38.248m High Point: 0+130.591 Elevation: 38.283m Grade in: 1.50% Grade out: -1.00% Change: 2.50% K: 6.9999999999989235 Curve Length: 17.533m Passing Distance: 219.444m Stopping Distance: 144.965m			
3.00	0+138.230		

Vertical Alignment: Rotunda 2

Description:

Station Range: Start: 0+000.000, End: 138+230.000

PVI	Station	Grade Out	Curve Length
0.00	0+000.000	2.50%	
1.00	0+033.455	-2.50%	50.020m
Vertical Curve Information:(crest curve) <hr/> PVC Station: 0+008.445 Elevation: 28.004m PVI Station: 0+033.455 Elevation: 28.630m PVT Station: 0+058.465 Elevation: 28.005m High Point: 0+033.463 Elevation: 28.317m Grade in: 2.50% Grade out: -2.50% Change: 5.00% K: 9.99999999999822 Curve Length: 50.020m Passing Distance: 130.503m Stopping Distance: 93.209m			
2.00	0+102.570	2.50%	24.994m
Vertical Curve Information:(sag curve) <hr/> PVC Station: 0+090.073 Elevation: 27.214m PVI Station: 0+102.570 Elevation: 26.902m PVT Station: 0+115.067 Elevation: 27.214m Low Point: 0+102.574 Elevation: 27.058m Grade in: -2.50% Grade out: 2.50% Change: 5.00% K: 5.000000000000839 Curve Length: 24.994m Headlight Distance: 80.679m			
3.00	0+138.230		