

Element	Type	Station	Elevation	Length	Entrance Grade	Exit Grade	K	Middle Ordinate	SSD/HSD
Symmetrical Parabola	PVC	147+70.00	1112.14	100	7.43%	5.19%	44.78	-0.28	533.22
	PVT	147+70.00	1112.14						
	PVI	148+20.00	1115.85						
	POVC	148+00.00	1114.26						
	POVC	148+50.00	1117.36						
Linear	PVT	148+70.00	1118.45	135	5.19%				
	POVT	149+00.00	1120.01						
	POVT	149+50.00	1122.6						
	PVC	150+00.00	1125.2						
	PVC	150+05.00	1125.46						
Symmetrical Parabola	PVC	150+05.00	1125.46	300	5.19%	13.95%	34.28	3.28	
	POVC	150+50.00	1128.09						
	POVC	151+00.00	1131.71						
	POVC	151+50.00	1136.06						
	PVI	151+55.00	1133.25						
Linear	PVT	152+00.00	1141.13	50	13.95%				
	POVT	152+50.00	1146.94						
	POVT	153+00.00	1153.47						
	PVC	153+05.00	1154.17						
	PVC	153+55.00	1161.14						
Symmetrical Parabola	PVI	154+30.00	1171.6	150	13.95%	11.15%	53.69	-0.52	461.28
	POVC	154+00.00	1167.23						
	POVC	154+50.00	1173.55						
	POVC	155+00.00	1179.4						
	PVCC	155+05.00	1179.96						
Symmetrical Parabola	PVCC	155+05.00	1179.96	430	11.15%	0.52%	40.44	-5.72	295.42
	POVC	155+50.00	1184.73						
	POVC	156+00.00	1189.44						
	POVC	156+50.00	1193.53						
	POVC	157+00.00	1197.01						
Linear	PVI	157+20.00	1203.94	105	0.52%				
	POVC	157+50.00	1199.86						
	POVC	158+00.00	1202.1						
	POVC	158+50.00	1203.72						
	PVT	159+35.00	1205.05						
Symmetrical Parabola	PVT	159+35.00	1205.05	380	0.52%	12.76%	31.03	5.82	
	POVT	159+50.00	1205.13						
	POVT	160+00.00	1205.39						
	PVC	160+40.00	1205.6						
	PVC	160+40.00	1205.6						
Symmetrical Parabola	POVC	160+50.00	1205.66	40	12.76%				
	POVC	161+00.00	1208.49						
	POVC	161+50.00	1208.12						
	POVC	162+00.00	1210.55						
	PVI	162+30.00	1206.58						
Linear	POVC	162+50.00	1213.79	170	12.76%	-0.44%	12.88	-2.8	166.73
	POVC	163+00.00	1217.83						
	POVC	163+50.00	1222.68						
	POVC	164+00.00	1228.34						
	PVT	164+20.00	1230.83						
Symmetrical Parabola	PVT	164+20.00	1230.83	80	-0.44%	0.95%	57.71	0.14	
	POVT	164+50.00	1234.66						
	PVC	164+60.00	1235.93						
	PVC	164+60.00	1235.93						
	POVC	165+00.00	1240.42						
Linear	POVC	165+00.00	1240.42	45	0.95%				
	POVC	165+50.00	1244.27						
	POVC	166+00.00	1246.19						
	PVI	165+45.00	1246.78						
	VHIGH	166+24.37	1246.42						
Symmetrical Parabola	PVT	166+30.00	1246.41	80	-0.44%	0.95%	57.71	0.14	
	POVT	166+50.00	1246.32						
	PVC	166+65.00	1246.26						
	PVC	166+65.00	1246.26						
	VLOW	166+90.25	1246.2						
Linear	POVC	167+00.00	1246.21	260	0.95%	8.48%	34.54	2.45	
	PVI	167+05.00	1246.08						
	PVT	167+45.00	1246.46						
	PVT	167+45.00	1246.46						
	POVC	168+00.00	1247						
Symmetrical Parabola	POVC	168+00.00	1247	112.5	8.48%				
	POVC	168+50.00	1247.98						
	POVC	169+00.00	1249.68						
	PVI	169+20.00	1248.12						
	POVC	169+50.00	1252.11						
Linear	POVC	170+00.00	1255.26	60	5.07%	5.39%	186.33	0.02	
	PVT	170+50.00	1259.14						
	PVT	170+50.00	1259.14						
	POVT	171+00.00	1263.39						
	POVT	171+50.00	1267.62						
Symmetrical Parabola	PVC	171+62.50	1268.68	90	8.48%	0.78%	21.44	-1.59	222.7
	PVC	171+62.50	1268.68						
	POVC	172+00.00	1271.53						
	PVI	172+45.00	1275.67						
	POVC	172+50.00	1274.31						
Linear	POVC	173+00.00	1275.92	40	4.56%				
	PVT	173+27.50	1276.31						
	PVT	173+27.50	1276.31						
	POVT	174+00.00	1276.88						
	PVC	174+40.00	1277.19						

Element	Type	Station	Elevation	Length	Entrance Grade	Exit Grade	K	Middle Ordinate	SSD/HSD
Linear	PVT	173+27.50	1276.31	112.5	0.78%				
	POVT	173+50.00	1276.49						
	POVT	174+00.00	1276.88						
	PVC	174+40.00	1277.19						
	PVC	174+40.00	1277.19						
Symmetrical Parabola	POVC	174+50.00	1277.27	100	0.78%	1.95%	85.16	0.15	
	PVI	174+90.00	1277.58						
	POVC	175+00.00	1277.87						
	PVCC	175+40.00	1278.56						
	PVCC	175+40.00	1278.56						
Symmetrical Parabola	POVC	175+50.00	1278.76	160	1.95%	5.81%	41.54	0.77	
	POVC	176+00.00	1280.16						
	PVI	176+20.00	1280.12						
	POVC	176+50.00	1282.16						
	PVT	177+00.00	1284.76						
Linear	PVT	177+00.00	1284.76	37.5	5.81%				
	PVC	177+37.50	1286.94						
	PVC	177+37.50	1286.94						
	POVC	177+50.00	1287.65						
	POVC	178+00.00	1290.1						
Symmetrical Parabola	PVI	178+00.00	1290.57	125	5.81%	2.81%	41.78	-0.47	423.24
	POVC	178+50.00	1291.96						
	PVT	178+62.50	1292.33						
	PVT	178+62.50	1292.33						
	POVC	179+00.00	1293.38						
Linear	PVC	179+35.00	1294.37	72.5	2.81%				
	POVC	179+50.00	1294.79						
	POVC	180+00.00	1296.18						
	POVC	180+50.00	1297.55						
	PVI	180+85.00	1298.59						
Symmetrical Parabola	POVC	181+00.00	1298.9	300	2.81%	2.56%	1196.09	-0.09	4452.55
	POVC	181+50.00	1300.23						
	POVC	182+00.00	1301.53						
	PVT	182+35.00	1302.43						
	PVT	182+35.00	1302.43						
Linear	POVT	182+50.00	1302.82	210	2.56%				
	POVT	183+00.00	1304.1						
	POVT	183+50.00	1305.36						
	POVT	184+00.00	1306.66						
	PVC	184+45.00	1307.82						
Symmetrical Parabola	PVC	184+45.00	1307.82	150	2.56%	3.22%	227.4	0.12	
	PVI	185+20.00	1309.74						
	POVC	184+50.00	1307.95						
	POVC	185+00.00	1309.29						
	POVC	185+50.00	1310.75						
Linear	PVT	185+95.00	1312.16	65	3.22%				
	PVT	185+95.00	1312.16						
	POVT	186+00.00	1312.32						
	POVT	186+50.00	1313.93						
	PVC	186+60.00	1314.25						
Symmetrical Parabola	PVC	186+60.00	1314.25	70	3.22%	2.37%	82.05	-0.07	1299.89
	PVI	186+95.00	1315.38						
	POVC	187+00.00	1315.44						
	PVT	187+30.00	1316.21						
	PVT	187+30.00	1316.21						
Linear	POVT	187+50.00	1316.68	67.5	2.37%				
	PVC	187+97.50	1317.81						
	PVC	187+97.50	1317.81						
	POVC	188+00.00	1317.87						
	POVC	188+50.00	1319.2						
Symmetrical Parabola	PVI	188+60.00	1319.29	125	2.37%	3.75%	90.72	0.22	
	POVC	189+00.00	1320.82						
	PVT	189+22.50	1321.63						
	PVT	189+22.50	1321.63						
	POVT	189+50.00	1322.66						
Linear	POVT	189+50.00	1322.66	77.5	3.75%				
	PVC	190+00.00	1324.54						
	PVC	190+00.00	1324.54						
	POVC	190+50.00	1326.35						
	PVI	190+70.00	1327.16						
Symmetrical Parabola	POVC	191+00.00	1328.04	140	3.75%	3.06%	202.76	-0.12	1632.91
	PVRC	191+40.00	1329.3						
	PVRC	191+40.00	1329.3						
	POVC	191+50.00	1329.62						
	PVI	191+75.00	1330.37						
Symmetrical Parabola	POVC	192+00.00	1331.65	70	3.06%	5.07%	34.77	0.18	
	PVT	192+10.00	1332.14						
	PVT	192+10.00	1332.14						
	POVT	192+50.00	1334.17						
	POVT	193+00.00	1336.71						
Linear	PVC	193+15.00	1337.47	105	5.07%				
	PVC	193+15.00	1337.47						
	PVI	193+45.00	1338.99						
	POVC	193+50.00	1339.28						
	PVT	193+75.00	1340.61						
Linear	PVT	193+75.00	1340.61	60	5.39%				
	POVT	194+00.00	1341.96						
	PVC	194+35.00	1343.84						
	PVC	194+35.00	1343.84						
	POVC	194+50.00	1344.64						
Symmetrical Parabola	PVI	194+80.00	1346.27	90	5.39%	4.56%	108.48	-0.09	1345.76
	POVC	195+00.00	1347.15						
	PVT	195+25.00	1348.32						
	PVT	195+25.00	1348.32						
	POVT	195+50.00	1349.46						
Linear	PVC	195+65.00	1350.15	40	4.56%				
	PVC	195+65.00	1350.15						
	POVT	196+00.00	1351.51						
	POVT	196+50.00	1352.87						
	PVC	196+85.00	1354.23						

Element	Type	Station	Elevation	Length	Entrance Grade	Exit Grade	K	Middle Ordinate	SSD/HSD
Symmetrical Parabola	PVC	195+65.00	1350.15	100	4.56%	4.15%	244.85	-0.05	2692.27
	POVC	196+00.00	1351.72						
	PVI	196+15.00	1352.43						
	POVC	196+50.00	1353.86						
	PVT	196+55.00	1354.51						
Linear	PVT	196+55.00	1354.51	20	4.15%				
	PVC	196+65.00	1355.34						
	PVC	196+65.00	1355.34						
	POVC	197+00.00	1355.97						
	PVI	197+25.00	1357						
Symmetrical Parabola	POVC	197+50.00	1358.26	80	4.15%	4.99%	95.31	0.08	
	PVT	197+55.00	1359						
	PVT	197+55.00	1359						
	POVT	198+00.00	1360.75						
	PVC	198+25.00	1361.99						
Linear									