

Element	Type	Station	Elevation	Length	Entrance Grade	Exit Grade	K	Middle Ordinate	SSD/HSD
Symmetrical Parabola	PVC	358+25.00	747.91	390	-4.98%	-8.23%	120.08	-1.58	527
	POVC	358+50.00	746.64						
	POVC	359+00.00	743.94						
	POVC	359+50.00	741.03						
	POVC	360+00.00	737.92						
	PVI	360+20.00	738.2						
	POVC	360+50.00	734.6						
	POVC	361+00.00	731.07						
	POVC	361+50.00	727.33						
	POVC	362+00.00	723.38						
Symmetrical Parabola	PVRC	362+15.00	722.16	270	-8.23%	-1.34%	39.2	2.32	211
	POVC	362+50.00	719.43						
	POVC	363+00.00	716.09						
	PVI	363+50.00	711.05						
	POVC	363+50.00	713.37						
	POVC	364+00.00	711.3						
	POVC	364+50.00	709.87						
	PVRC	364+85.00	709.24						
	POVC	365+00.00	709.02						
	POVC	365+50.00	708						
Symmetrical Parabola	POVC	366+00.00	706.54	290	-1.34%	-6.42%	57.05	-1.84	357
	PVI	366+30.00	707.3						
	POVC	366+50.00	704.65						
	POVC	367+00.00	702.31						
	POVC	367+50.00	699.54						
	PVCC	367+75.00	697.99						
	POVC	368+00.00	696.35						
	POVC	368+50.00	692.89						
	PVI	368+55.00	692.85						
	POVC	369+00.00	689.19						
Symmetrical Parabola	PVRC	369+35.00	686.45	200	-8.00%	-2.57%	36.82	1.36	202
	POVC	369+50.00	685.28						
	POVC	370+00.00	681.82						
	PVI	370+35.00	678.45						
	POVC	370+50.00	679.05						
	POVC	371+00.00	676.95						
	PVRC	371+35.00	675.88						
	POVC	371+50.00	675.48						
	POVC	372+00.00	673.89						
	POVC	372+50.00	671.91						
Symmetrical Parabola	PVI	372+55.00	672.8	240	-2.57%	-6.28%	64.66	-1.11	411
	POVC	373+00.00	669.54						
	POVC	373+50.00	666.79						
	PVRC	373+75.00	665.26						
	PVRC	373+75.00	665.26						
	POVC	374+00.00	663.75						
	POVC	374+50.00	661.02						
	POVC	375+00.00	658.7						
	PVI	375+05.00	657.1						
	POVC	375+50.00	656.79						
Symmetrical Parabola	POVC	376+00.00	655.29	260	-6.28%	-2.01%	60.86	1.39	300
	PVT	376+35.00	654.49						
	PVT	376+35.00	654.49						
	POVT	376+50.00	654.19						
	POVT	377+00.00	653.18						
	POVT	377+50.00	652.18						
	POVT	378+00.00	651.18						
	POVT	378+50.00	650.17						
	POVT	379+00.00	649.17						
	POVT	379+50.00	648.16						
Linear	POVT	380+00.00	647.16	390	-2.01%				
	PVC	380+25.00	646.66						
	PVC	380+25.00	646.66						
	POVC	380+50.00	646.16						
	POVC	381+00.00	645.2						
	PVI	381+25.00	644.65						
	POVC	381+50.00	644.27						
	POVC	382+00.00	643.38						
	PVRC	382+25.00	642.95						
	PVRC	382+25.00	642.95						
Symmetrical Parabola	POVC	382+50.00	642.47	200	-1.70%	-5.00%	60.61	-0.83	427
	POVC	383+00.00	641.21						
	PVI	383+25.00	641.25						
	POVC	383+50.00	639.54						
	POVC	384+00.00	637.45						
	PVT	384+25.00	636.25						
	PVT	384+25.00	636.25						
	POVT	384+50.00	635						
	PVC	384+65.00	634.25						
	PVC	384+65.00	634.25						
Symmetrical Parabola	POVC	385+00.00	632.55	320	-5.00%	-2.53%	129.33	0.99	823
	POVC	385+50.00	630.28						
	POVC	386+00.00	628.2						
	PVI	386+25.00	626.25						
	POVC	386+50.00	626.32						
	POVC	387+00.00	624.64						
	POVC	387+50.00	623.14						
	PVT	387+85.00	622.21						
	PVT	387+85.00	622.21						
	POVT	388+00.00	621.83						
Linear	POVT	388+50.00	620.57	80	-2.53%				
	PVC	388+65.00	620.19						

Element	Type	Station	Elevation	Length	Entrance Grade	Exit Grade	K	Middle Ordinate	SSD/HSD
Symmetrical Parabola	PVC	388+65.00	620.19	300	-2.53%	-0.22%	130.38	0.86	990
	POVC	389+00.00	619.35						
	POVC	389+50.00	618.32						
	POVC	390+00.00	617.48						
	PVI	390+15.00	616.4						
	POVC	390+50.00	616.83						
	POVC	391+00.00	616.37						
	POVC	391+50.00	616.11						
	PVT	391+65.00	616.06						
	PVT	391+65.00	616.06						
Linear	POVT	392+00.00	615.98	145	-0.22%				
	POVT	392+50.00	615.87						
	POVT	393+00.00	615.76						
	PVC	393+10.00	615.74						
Symmetrical Parabola	PVC	393+10.00	615.74	300	-0.22%	2.03%	133.06	0.85	1066
	VLOW	393+39.90	615.7						
	POVC	393+50.00	615.71						
	POVC	394+00.00	615.84						
	POVC	394+50.00	616.16						
	PVI	394+60.00	615.4						
	POVC	395+00.00	616.67						
	POVC	395+50.00	617.36						
	POVC	396+00.00	618.25						
	PVT	396+10.00	618.44						
Linear	PVT	396+10.00	618.44	45	2.03%				
	POVT	396+50.00	619.26						
	PVC	396+55.00	619.36						
Symmetrical Parabola	PVC	396+55.00	619.36	280	2.03%	-7.75%	28.62	-3.42	248.53
	POVC	397+00.00	619.92						
	VHIGH	397+13.09	619.95						
	POVC	397+50.00	619.71						
	PVI	397+95.00	622.2						
	POVC	398+00.00	618.63						
	POVC	398+50.00	616.67						
	POVC	399+00.00	613.84						
	PVT	399+35.00	611.34						
	PVT	399+35.00	611.34						
Linear	POVT	399+50.00	610.18	95	-7.75%				
	POVT	400+00.00	606.3						
	PVC	400+30.00	603.98						
	PVC	400+30.00	603.98						
Symmetrical Parabola	POVC	400+50.00	602.59	100	-7.75%	0.44%	12.2	1.02	
	PVI	400+80.00	600.1						
	POVC	401+00.00	600.56						
	VLOW	401+24.58	600.31						
	PVT	401+30.00	600.32						
	PVT	401+30.00	600.32						
Linear	POVT	401+30.00	600.32	6.72	0.44%				
	POE	401+36.72	600.35						

Element	Type	Station	Elevation	Length	Entrance Grade	Exit Grade	K	Middle Ordinate	SSD/HSD
Linear	POB	500+00.00	1381.68	15	5.40%				
	PVI	500+15.00	1382.49						
Linear	PVI	500+15.00	1382.49	20	-1.00%				
	PVI	500+35.00	1382.29						
Linear	PVI	500+35.00	1382.29	8.39	-4.27%				
	PVC	500+43.39	1381.93						
Symmetrical Parabola	PVC	500+43.39	1381.93	140	-4.27%	2.38%	21.04	1.16	136
	POVC	500+50.00	1381.66						
	POVC	501+00.00	1380.27						
	PVI	501+13.39	1378.94						
	VLOW	501+33.31	1380.01						
	POVC	501+50.00	1380.08						
Linear	PVT	501+83.39	1380.61	41.61	2.38%				
	POVT	502+00.00	1381.00						
	POE	502+25.00	1381.60						

PVC - POINT OF VERTICAL CURVATURE  
PVT - POINT OF VERTICAL TANGENCY  
PVI - POINT OF VERTICAL INTERSECTION  
POVT - POINT ON VERTICAL TANGENT  
POVC - POINT ON VERTICAL CURVE

PROJECT NAME: RANDOLPH  
PROJECT NUMBER: STP 2932(I)  
FILE NAME: z\0c270.dgn  
PROJECT LEADER: C.LATHROP  
DESIGNED BY: B.BRESLEND  
VERTICAL ALIGNMENT TABLE SHEET 5  
PLOT DATE: 6/5/2014  
DRAWN BY: J.GOODALL  
CHECKED BY: C.LATHROP  
SHEET 153 OF 276