

Braintree (Continued)

Element	Point Type	Station	Northing	Easting	Radius	Length	Delta / Theta	Rotation Direction	Maximum Banking	Design Speed
Curve 39	PC	198+14.25	533724.34	1577218.36	1400	298.26	12°12'23"	Left	6.4%	50
	PI	199+63.94	533830.02	1577112.34						
	CC		532732.84	1576229.96						
Tangent	PT	201+12.50	533910.9	1576986.38						
	PC	203+17.58	534021.71	1576813.81						
Curve 40	PC	203+17.58	534021.71	1576813.81	1430	651.32	26°05'47"	Right	6.3%	50
	PI	206+48.99	534200.77	1576534.93						
	CC		535225.02	1577586.43						
Tangent	PT	209+68.90	534484.24	1576363.26						
	PC	212+90.85	534759.62	1576196.48						
Curve 41	PC	212+90.85	534759.62	1576196.48	5000	232.06	2°39'33"	Right	2.0%	50
	PI	214+06.90	534858.89	1576136.36						
	CC		537349.75	1580473.31						
Tangent	PT	215+22.91	534960.84	1576080.91						
	PC	217+50.51	535160.78	1575972.17						
Curve 42	PC	217+50.51	535160.78	1575972.17	2550	362.23	8°08'20"	Left	3.0%	40
	PI	219+31.93	535320.16	1575885.49						
	CC		533942.44	1573732.05						
Tangent	PT	221+12.74	535465.65	1575777.12						
	PC	228+78.59	536079.85	1575319.65						
Curve 43	PC	228+78.59	536079.85	1575319.65	2000	241.49	6°55'05"	Right	3.6%	40
	PI	229+99.48	536176.81	1575247.44						
	CC		537274.53	1576923.63						
Curve 44	PCC	231+20.08	536281.75	1575187.43	1300	390.42	17°12'27"	Right	5.0%	40
	PI	233+16.77	536452.5	1575089.8						
	CC		536927.06	1576315.96						
Tangent	PT	235+10.50	536644.49	1575047.04						
	PC	243+30.23	537444.62	1574868.87						
Curve 45	PC	243+30.23	537444.62	1574868.87	6500	441.38	3°53'26"	Right	NC	40
	PI	245+51.00	537660.12	1574820.88						
	CC		538857.45	1581213.47						
Tangent	PT	247+71.61	537878.37	1574787.63						
	PC	255+49.21	538647.1	1574670.5						
Curve 46	PC	255+49.21	538647.1	1574670.5	4900	395.64	4°37'34"	Left	2.0%	50
	PI	257+47.13	538842.77	1574640.69						
	CC		537909.03	1569826.4						
Tangent	PT	259+44.84	539035.39	1574595.19						
	PC	261+73.39	539257.82	1574542.65						
Curve 47	PC	261+73.39	539257.82	1574542.65	3700	365.02	5°39'09"	Left	3.1%	50
	PI	263+56.04	539435.58	1574500.67						
	CC		538407.29	1570941.73						
Tangent	PT	265+38.40	539608.35	1574441.37						
	PC	269+47.87	539995.64	1574308.46						
Curve 48	PC	269+47.87	539995.64	1574308.46	3700	339.82	5°15'44"	Left	3.1%	50
	PI	271+17.90	540156.46	1574253.26						
	CC		538794.59	1570808.82						
Tangent	PT	272+87.69	540311.55	1574183.55						
	PC	275+87.99	540585.44	1574060.43						
Curve 49	PC	275+87.99	540585.44	1574060.43	2120	728.81	19°41'50"	Right	4.9%	50
	PI	279+56.03	540921.13	1573909.54						
	CC		541454.62	1575994.07						
Curve 50	PCC	283+16.80	541288.03	1573880.62	1880	471.08	14°21'25"	Right	3.3%	50
	PI	285+53.58	541524.08	1573862.02						
	CC		541435.76	1575754.81						
Tangent	PT	287+87.88	541757.37	1573902.52						
	PC	289+69.51	541936.32	1573933.59						
Curve 51	PC	289+69.51	541936.32	1573933.59	2000	732.18	20°58'32"	Left	4.3%	50
	PI	293+39.74	542301.09	1573996.93						
	CC		542278.45	1571963.07						
Tangent	PT	297+01.69	542664.37	1573925.49						
	PC	297+01.69	542664.37	1573925.49						

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Element	Point Type	Station	Northing	Easting	Radius	Length	Delta / Theta	Rotation Direction	Maximum Banking	Design Speed
Curve 52	PC	297+98.51	542759.37	1573906.81	2250	885.49	22°32'56"	Right	4.7%	50
	PI	302+47.06	543199.49	1573820.25						
	CC		543193.53	1576114.52						
Tangent	PT	306+84.00	543639.15	1573909.09						
	PC	308+57.52	543809.24	1573943.46						
Curve 53	PC	308+57.52	543809.24	1573943.46	3000	387.14	7°23'38"	Left	3.7%	50
	PI	310+51.36	543999.24	1573981.85						
	CC		544403.41	1571002.89						
Tangent	PT	312+44.66	544192.59	1573995.47						
	PC	315+68.08	544515.22	1574018.2						
Curve 54	PC	315+68.08	544515.22	1574018.2	2000	362.98	10°23'55"	Left	5.1%	50
	PI	317+50.07	544696.76	1574030.99						
	CC		544655.77	1572023.14						
Tangent	PT	319+31.06	544877.63	1574010.8						
	PC	322+70.08	545214.55	1573973.19						
Curve 55	PC	322+70.08	545214.55	1573973.19	4000	534.14	7°39'04"	Right	2.9%	50
	PI	325+37.54	545480.37	1573943.52						
	CC		545658.27	1577948.51						
Tangent	PT	328+04.22	545747.77	1573949.51						
	PC	331+06.91	546050.38	1573956.28						
Curve 56	PC	331+06.91	546050.38	1573956.28	1900	364.03	10°58'40"	Left	5.3%	50
	PI	332+89.48	546232.91	1573960.36						
	CC		546092.89	1572056.75						
Tangent	PT	334+70.94	546412.88	1573929.62						
	PC	341+27.92	547060.47	1573818.97						
Curve 57	PC	341+27.92	547060.47	1573818.97	4000	319.94	4°34'58"	Right	2.9%	50
	PI	342+87.97	547218.24	1573792.02						
	CC		547734.13	1577761.84						
Tangent	PT	344+47.86	547377.66	1573777.75						
	PC	345+46.84	547476.25	1573768.93						
Curve 58	PC	345+46.84	547476.25	1573768.93	3000	357.37	6°49'31"	Left	3.7%	50
	PI	347+25.74	547654.43	1573752.99						
	CC		547208.9	1570780.87						
Tangent	PT	349+04.21	547829.46	1573715.98						
	PC	352+09.60	548128.25	1573652.81						
Curve 59	PC	352+09.60	548128.25	1573652.81	7000	480.5	3°55'58"	Right	2.0%	50
	PI	354+49.95	548363.39	1573603.09						
	CC		549576.24	1580501.41						
Tangent	PT	356+90.10	548601.39	1573569.62						
	PC	360+52.19	548959.95	1573519.2						
Curve 60	PC	360+52.19	548959.95	1573519.2	8550	284.55	1°54'25"	Right	NC	50
	PI	361+94.48	549100.85	1573499.38						
	CC		550150.66	1581985.88						
Tangent	PT	363+36.74	549242.34	1573484.27						
	PC	363+36.74	549242.34	1573484.27						
Curve 61	PC	370+57.25	549958.77	1573407.72	22535	521.13	1°19'30"	Left	2.0%	50
	PI	373+17.82	550217.87	1573380.04						
	CC		547564.74	1551000.25						
Curve 62	PCC	375+78.38	550476.26	1573346.37	3400	319.34	5°22'53"	Left	3.3%	50
	PI	377+38.16	550634.71	1573325.73						
	CC		550036.98	1569974.87						
	PT	378+97.72	550790.52	1573290.31						

PROJECT NAME:	RANDOLPH-ROXBURY
PROJECT NUMBER:	ER STP 0187(II)
FILE NAME:	z13c182frm.dgn
PROJECT LEADER:	M. FOISY
DESIGNED BY:	I. MAYNARD
ALIGNMENT SHEET 2	
PLOT DATE:	11/17/2014
DRAWN BY:	I. MAYNARD
CHECKED BY:	M. FOISY
SHEET	33 OF 545

