

Curve #1L  
Curve Data Based on Face of Curb  
Rad. = 111.80' Delta = 17°11'59" Tangent = 16.91'  
Arc = 33.06' L.C. = 33.44' Def/Ft. = 15.60773 Min.

Station	Arc	FACE CHORD LENGTHS		Defl.	T. Defl.
		8' Lt.	8' Rt.		
0+59.75	-	-	-	0°00'00"	0°00'00"
0+75.00	15.25'	16.58'	16.58'	3°58'01"	3°58'01"
0+92.81	17.81'	19.35'	19.35'	4°37'58"	8°35'59"

Curve #1R  
Curve Data Based on Face of Curb  
Rad. = 111.80' Delta = 17°11'59" Tangent = 16.91'  
Arc = 33.06' L.C. = 33.44' Def/Ft. = 15.60773 Min.

Station	Arc	FACE CHORD LENGTHS		Defl.	T. Defl.
		8' Lt.	8' Rt.		
0+59.75	-	-	-	0°00'00"	0°00'00"
0+75.00	15.25'	16.58'	16.58'	3°58'01"	3°58'01"
0+92.81	17.81'	19.35'	19.35'	4°37'58"	8°35'59"

Curve #2L  
Curve Data Based on Face of Curb  
Rad. = 111.80' Delta = 17°11'59" Tangent = 16.91'  
Arc = 33.06' L.C. = 33.44' Def/Ft. = 15.60773 Min.

Station	Arc	FACE CHORD LENGTHS		Defl.	T. Defl.
		8' Lt.	8' Rt.		
0+92.81	-	-	-	0°00'00"	0°00'00"
1+00.00	7.19'	6.78'	6.78'	1°52'13"	1°52'13"
1+10.06	10.06'	9.48'	9.48'	2°37'01"	4°29'14"
1+11.23	1.17'	1.10'	1.10'	0°18'16"	4°47'30"
1+25.00	13.77'	12.97'	12.97'	3°34'55"	8°22'25"
1+25.87	0.87'	0.82'	0.82'	0°13'35"	8°35'59"

Curve #2R  
Curve Data Based on Face of Curb  
Rad. = 111.80' Delta = 17°11'59" Tangent = 16.91'  
Arc = 33.06' L.C. = 33.44' Def/Ft. = 15.60773 Min.

Station	Arc	FACE CHORD LENGTHS		Defl.	T. Defl.
		8' Lt.	8' Rt.		
0+92.81	-	-	-	0°00'00"	0°00'00"
1+00.00	7.19'	6.78'	6.78'	1°52'13"	1°52'13"
1+10.06	10.06'	9.48'	9.48'	2°37'01"	4°29'14"
1+11.23	1.17'	1.10'	1.10'	0°18'16"	4°47'30"
1+25.00	13.77'	12.97'	12.97'	3°34'55"	8°22'25"
1+25.87	0.87'	0.82'	0.82'	0°13'35"	8°35'59"

Curve #3  
Curve Data Based on Centerline  
Rad. = 100' Delta = 60°01'19" Tangent = 57.74'  
Arc = 104.72' L.C. = 100.01' Def/Ft. = 17.19025 Min.

Station	Arc	FACE CHORD LENGTHS		Defl.	T. Defl.
		8' Lt.	8' Rt.		
1+48.79	-	-	-	0°00'00"	0°00'00"
1+50.00	1.21'	1.51'	0.91'	0°20'48"	0°20'48"
1+75.00	25.00'	31.17'	18.70'	7°09'45"	7°30'33"
2+00.00	25.00'	31.17'	18.70'	7°09'45"	14°40'19"
2+25.00	25.00'	31.17'	18.70'	7°09'45"	21°50'04"
2+32.87	7.87'	9.84'	5.90'	2°15'17"	24°05'21"
2+50.00	17.13'	21.39'	12.83'	4°54'28"	28°59'49"
2+53.51	3.51'	4.39'	2.63'	1°00'20"	30°00'01"

Curve #4  
Curve Data Based on Centerline  
Rad. = 100' Delta = 45°11'56" Tangent = 41.62'  
Arc = 78.88' L.C. = 76.86' Def/Ft. = 17.19025 Min.

Station	Arc	FACE CHORD LENGTHS		Defl.	T. Defl.
		8' Lt.	8' Rt.		
3+80.97	-	-	-	0°00'00"	0°00'00"
4+00.00	19.03'	14.25'	23.75'	5°27'08"	5°27'08"
4+25.00	25.00'	18.70'	31.17'	7°09'45"	12°36'53"
4+50.00	25.00'	18.70'	31.17'	7°09'45"	19°46'39"
4+59.85	9.85'	7.39'	12.31'	2°49'19"	22°35'58"

Curve #5  
Curve Data Based on Centerline  
Rad. = 100' Delta = 75°31'42" Tangent = 77.47'  
Arc = 131.82' L.C. = 122.48' Def/Ft. = 17.18898 Min.

Station	Arc	FACE CHORD LENGTHS		Defl.	T. Defl.
		8' Lt.	8' Rt.		
5+16.53	-	-	-	0°00'00"	0°00'00"
5+25.00	8.47'	10.58'	6.35'	2°25'35"	2°25'35"
5+50.00	25.00'	31.17'	18.70'	7°09'43"	9°35'19"
5+75.00	25.00'	31.17'	18.70'	7°09'43"	16°45'02"
6+00.00	25.00'	31.17'	18.70'	7°09'43"	23°54'46"
6+04.99	4.99'	6.24'	3.74'	1°25'46"	25°20'32"
6+25.00	20.01'	24.97'	14.98'	5°43'57"	31°04'29"
6+48.35	23.35'	29.12'	17.47'	6°41'22"	37°45'51"

Curve #6  
Curve Data Based on Centerline  
Rad. = 100' Delta = 86°7'28" Tangent = 93.45'  
Arc = 150.32' L.C. = 136.56' Def/Ft. = 17.18822 Min.

Station	Arc	FACE CHORD LENGTHS		Defl.	T. Defl.
		8' Lt.	8' Rt.		
8+66.89	-	-	-	0°00'00"	0°00'00"
8+75.00	8.11'	6.08'	10.13'	2°19'24"	2°19'24"
9+00.00	25.00'	18.70'	31.17'	7°09'42"	9°29'06"
9+25.00	25.00'	18.70'	31.17'	7°09'42"	16°38'48"
9+50.00	25.00'	18.70'	31.17'	7°09'42"	23°48'31"
9+75.00	25.00'	18.70'	31.17'	7°09'42"	30°58'13"
10+00.00	25.00'	18.70'	31.17'	7°09'42"	38°07'55"
10+17.21	17.21'	12.89'	21.49'	4°55'49"	43°03'44"

Curve #9  
Curve Data Based on Centerline  
Rad. = 80' Delta = 38°20'45" Tangent = 27.82'  
Arc = 53.54' L.C. = 52.55' Def/Ft. = 21.48627 Min.

Station	Arc	FACE CHORD LENGTHS		Defl.	T. Defl.
		8' Lt.	8' Rt.		
0+82.12	-	-	-	0°00'00"	0°00'00"
1+00.00	17.88'	12.27'	23.42'	6°24'10"	6°24'10"
1+25.00	25.00'	17.12'	32.68'	8°57'09"	15°21'20"
1+35.66	10.66'	7.32'	13.98'	3°49'03"	19°10'22"

Curve #10  
Curve Data Based on Centerline  
Rad. = 419.21' Delta = 11°16'15" Tangent = 40.75'  
Arc = 72.35' L.C. = 81.12' Def/Ft. = 4.60436 Min.

Station	Arc	FACE CHORD LENGTHS		Defl.	T. Defl.
		8' Lt.	8' Rt.		
4+89.88	-	-	-	0°00'00"	0°00'00"
5+00.00	10.12'	10.69'	12.04'	0°46'36"	0°46'36"
5+25.00	25.00'	26.39'	29.74'	1°55'07"	2°41'42"
5+50.00	25.00'	26.39'	29.74'	1°55'07"	4°36'49"
5+62.23	12.23'	12.91'	14.55'	0°56'19"	5°33'08"

Curve #7  
Curve Data Based on Centerline  
Rad. = 172' Delta = 60°53'41" Tangent = 101.10'  
Arc = 182.81' L.C. = 174.32' Def/Ft. = 9.99311 Min.

Station	Arc	FACE CHORD LENGTHS		Defl.	T. Defl.
		8' Lt.	8' Rt.		
13+09.12	-	-	-	0°00'00"	0°00'00"
13+25.00	15.88'	18.18'	13.57'	2°38'41"	2°38'41"
13+50.00	25.00'	28.61'	21.35'	4°09'50"	6°48'31"
13+75.00	25.00'	28.61'	21.35'	4°09'50"	10°58'21"
13+89.24	14.24'	16.30'	12.17'	2°22'18"	13°20'39"
14+00.00	10.76'	12.32'	9.19'	1°47'32"	15°08'10"
14+19.84	19.84'	22.71'	16.95'	3°18'16"	18°26'26"
14+25.00	5.16'	5.91'	4.41'	0°51'34"	19°18'00"
14+50.00	25.00'	28.61'	21.35'	4°09'50"	23°27'50"
14+50.52	0.52'	0.60'	0.44'	0°05'12"	23°33'02"
14+75.00	24.48'	28.01'	20.90'	4°04'38"	27°37'39"
14+91.93	16.93'	19.38'	14.46'	2°49'11"	30°26'51"

Curve #8  
Curve Data Based on Centerline  
Rad. = 150' Delta = 65°11'58" Tangent = 95.93'  
Arc = 170.69' L.C. = 161.63' Def/Ft. = 11.45928 Min.

Station	Arc	FACE CHORD LENGTHS		Defl.	T. Defl.
		8' Lt.	8' Rt.		
14+91.93	-	-	-	0°00'00"	0°00'00"
15+00.00	8.07'	6.72'	9.41'	1°32'29"	1°32'29"
15+25.00	25.00'	20.81'	29.13'	4°46'29"	6°18'57"
15+50.00	25.00'	20.81'	29.13'	4°46'29"	11°05'26"
15+75.00	25.00'	20.81'	29.13'	4°46'29"	15°51'55"
16+00.00	25.00'	20.81'	29.13'	4°46'29"	20°38'24"
16+25.00	25.00'	20.81'	29.13'	4°46'29"	25°24'53"
16+50.00	25.00'	20.81'	29.13'	4°46'29"	30°11'22"
16+62.62	12.62'	10.51'	14.72'	2°24'37"	32°35'59"

WATER VALVE LOCATION TABLE

VALVE NUMBER	BASELINE STATION	OFFSET DISTANCE	OFFSET DIRECTION
V1	0+64.17	36'	Rt.
V2	2+80.43	37'	Lt.
V3	2+86.43	26'	Lt.
V4	6+24.87	31.63'	Lt.
V5	6+28.56	28.43'	Lt.
V6	7+95.72	24'	Rt.

WATER VALVE LOCATION TABLE

VALVE NUMBER	BASELINE STATION	OFFSET DISTANCE	OFFSET DIRECTION
V7	13+89.24	24'	Lt.
V8	13+93.70	26'	Lt.
V9	13+97.64	30'	Lt.
V10	-0+30.00	26'	Rt.
V11	1+55.41	24'	Rt.

Paving contractor will be responsible to operate all water valves on the project, in the presence of the inspector, to ensure accessibility to the valves, and that all valves are left in the "ON" position when the project is completed.

**Baughman** FALCON FALLS 3RD ADD. - PH. 1  
**CURVE TABLES**  
Paving Improvements

Baughman Company, P.A. 315 Ellis St. Waltham, MA 02451 P 316-262-7271 F 316-262-0149  
ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE

PROJECT NUMBER 472-84624	DESIGN ITW	DRAWN JEB
REVISIONS:	APPROVED ABC	DATE 08/06
	SCALE None	
	<b>12 OF 32</b>	

E:\Falcon Falls 3rd\SW & STR\Str1.dwg 05-12-2011