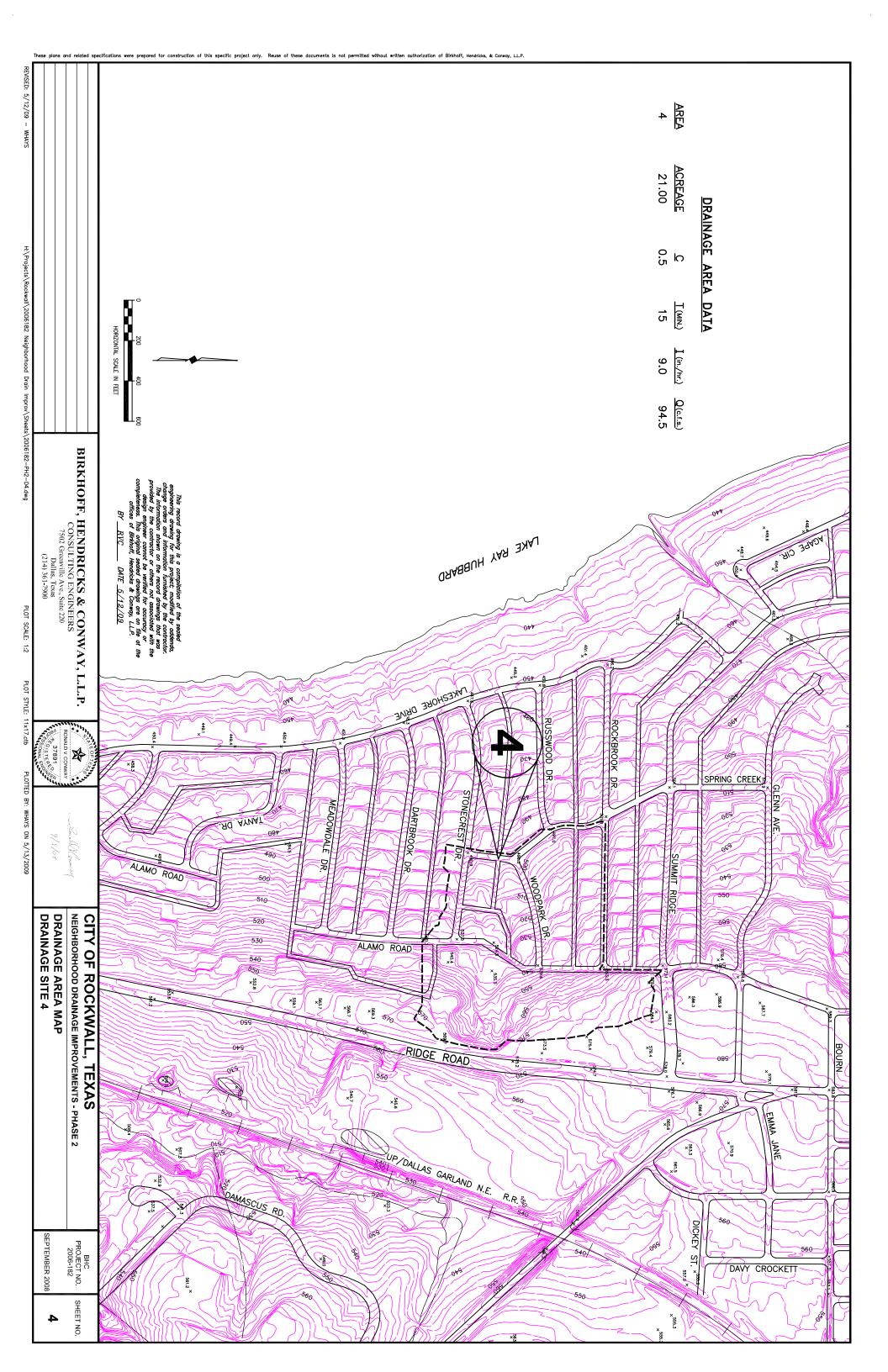
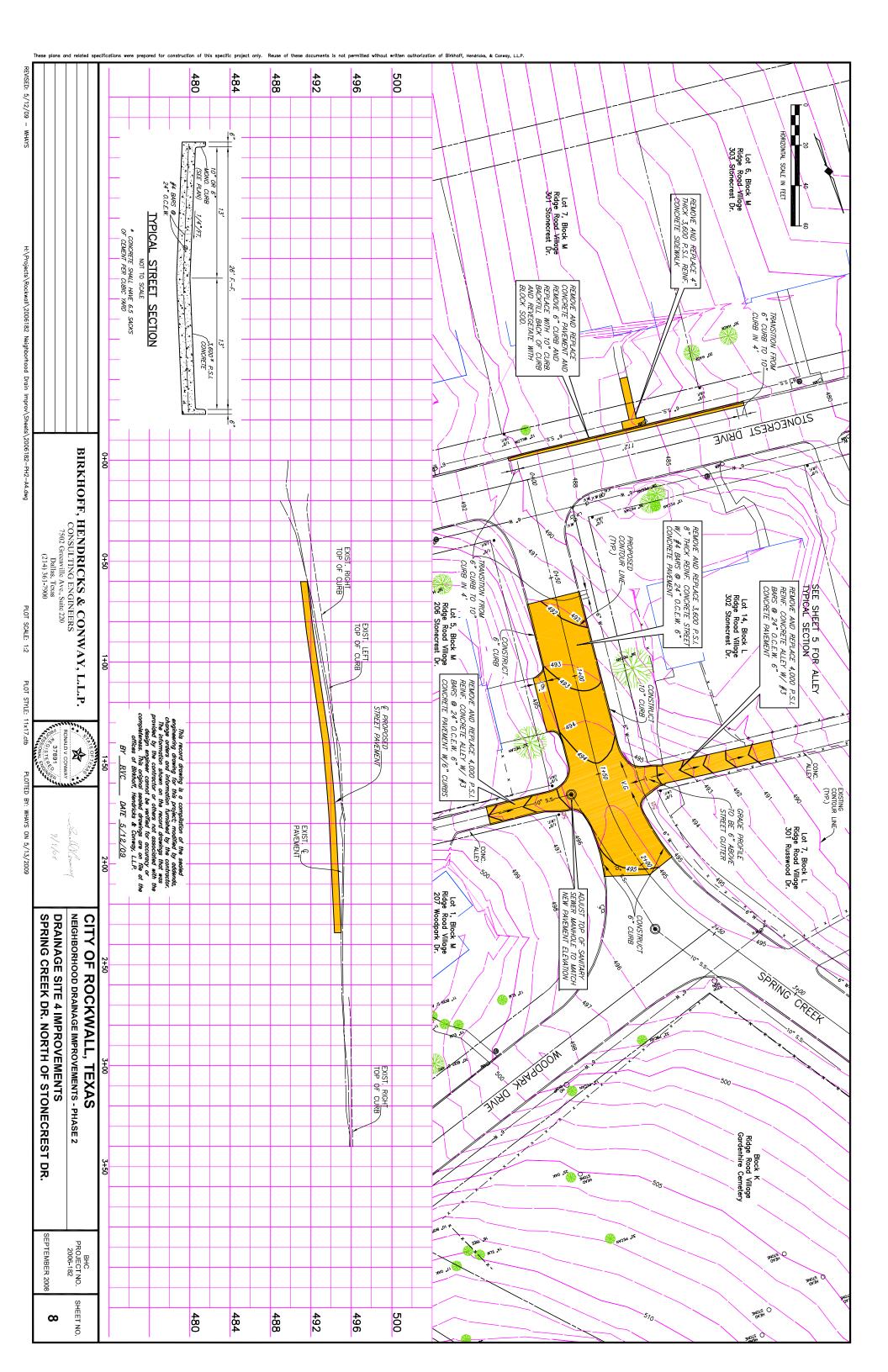
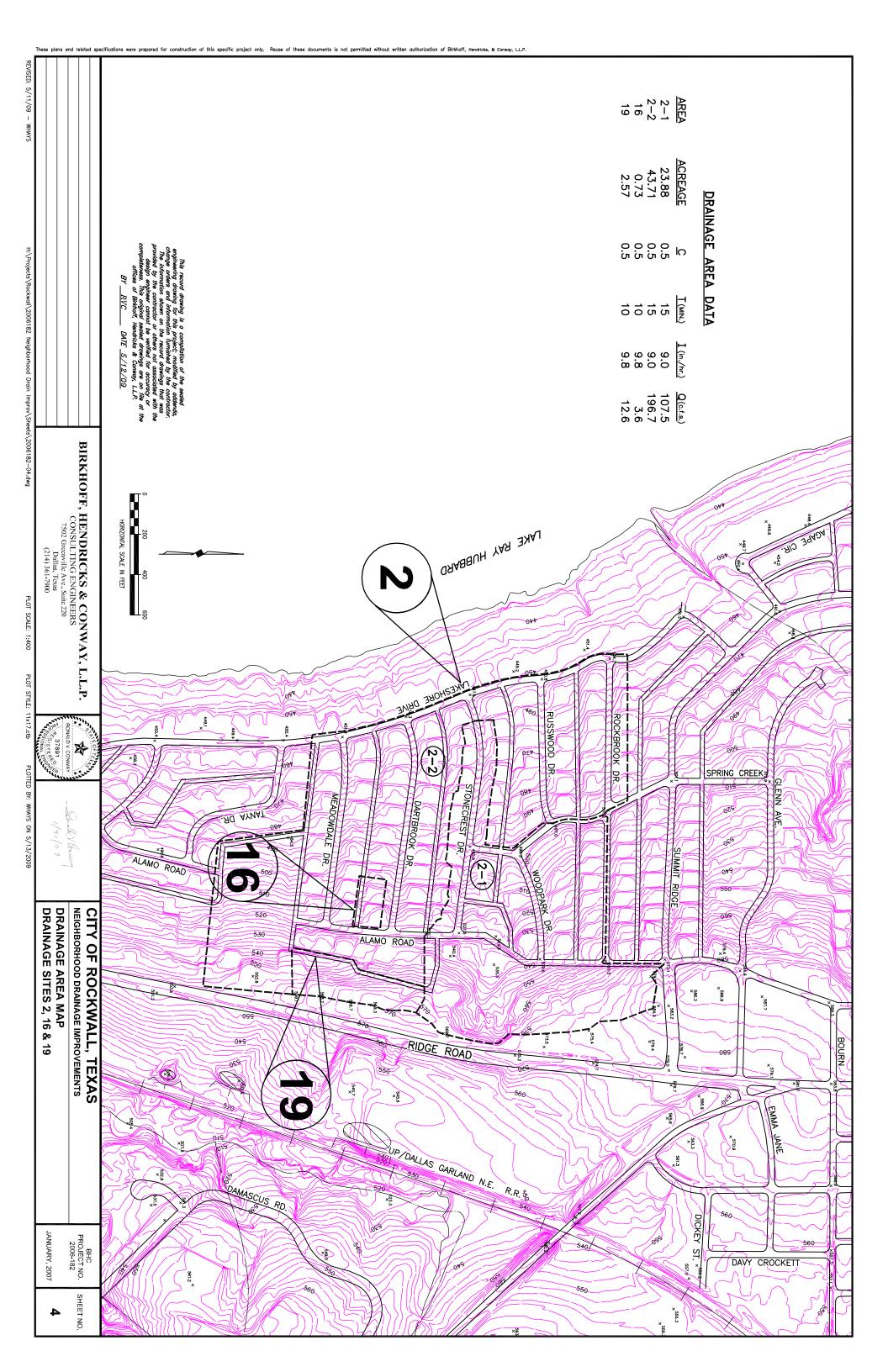
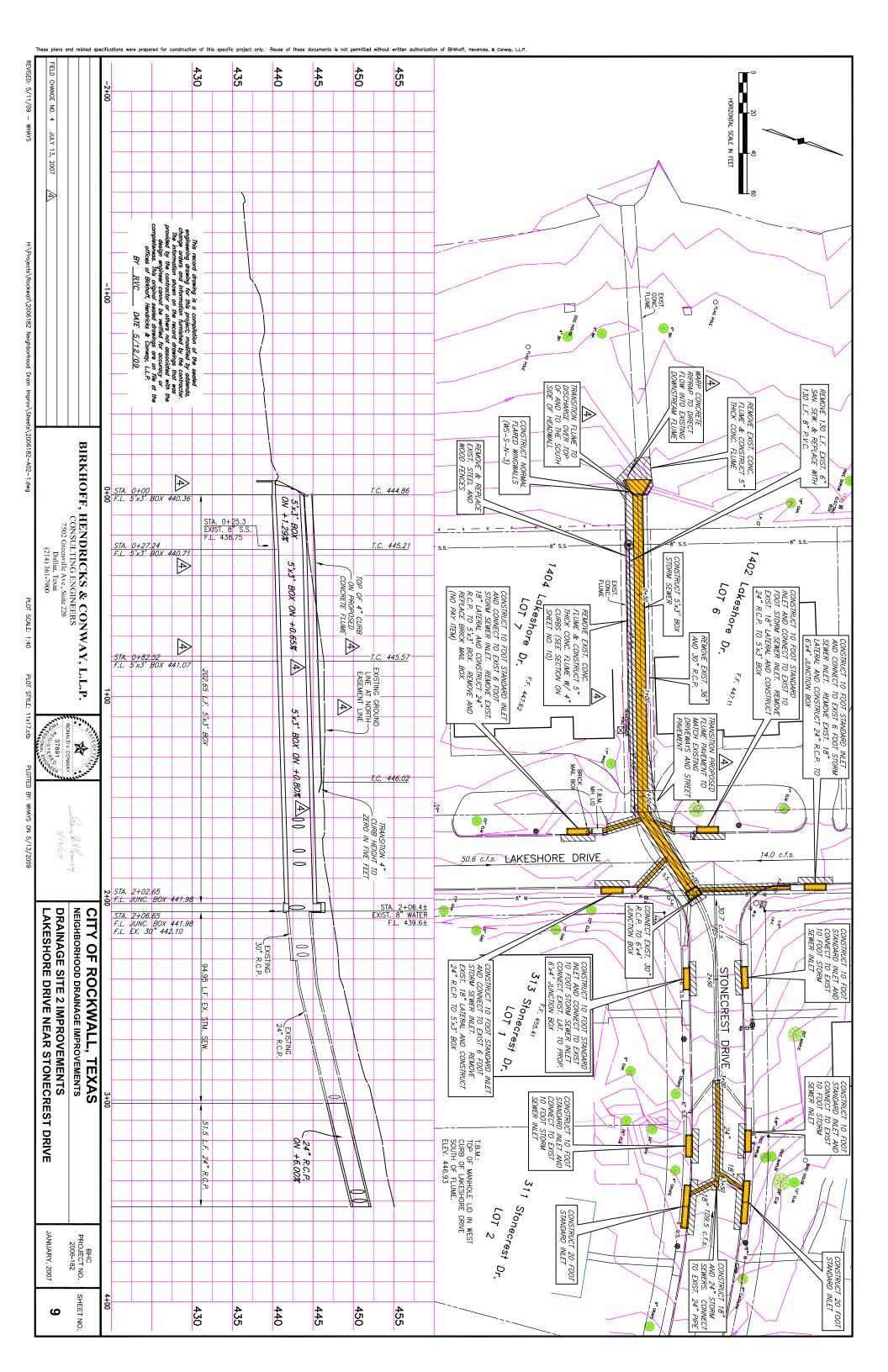


Date: 7/1/2015









#### REVISED: 5/11/09 - WHAYS

## H:\Projects\Rockwall\2006182 Neighborhood Drain Improv\Sheets\2006182-07.dwg

# BIRKHOFF, HENDRICKS & CONWAY, L.L.P. CONSULTING ENGINEERS 7502 Greenville Ave., Suite 220 Dallas, Texas (214) 361-7900

PLOT SCALE: 1:2



## CITY OF ROCKWALL, TEXAS NEIGHBORHOOD DRAINAGE IMPROVEMENTS

#### T DESIGN CALCULATIONS

#### JANUARY, 2007 BH( PROJE( 2006-

#### 7

5-182	CT NO.	ਨ
	SHEET NO	

# INLET DESIGN CALCULATIONS

	20-1				8-4	8-3	8-2	S-1		5-2	5-1								#	***************************************					**************************************			* * * * * * * * * * * * * * * * * * *
the state of the s	Austin at Heath	SITE 20	Alley between Summit Ridge & Glenn	SITE 11	Carriage S. of Westway (E)	Westway at Carriage (N)	Carriage N. of Westway (E)	Carriage S. of Westway (W)	SITE 8	Heath West of Fannin	South of Heath	SITE 5	Lakeshore at Stonecrest	Lakeshore at Dartbrook	Lakeshore at Meadowdale	Lakeshore at Russwood	Meadowdale at Lakeshore (S)	Meadowdale at Lakeshore (N)	Dartbrook at Lakeshore (S)	Dartbrook at Lakeshore (N)	Stonecrest at Lakeshore	Russwood at Lakeshore (S)	Russwood at Lakeshore (N)	Rockbrook at Lakeshore (S)	Rockbrook at Lakeshore (N)	SITE 2	Location	INLET
100	100		100		100	100	100	100		100	100		100	100	100	100	100	100	100	100	100	100	100	100	100		Frequency (yrs.)	Design
10	10		10		10	10	10	10		10	15		10	10	15	10	10	10	10	10	15	10	10	10	10		Cone.	The of
9 %	9.8	#	9.8		9,8	9,8	9.8	9.8		9,8	9.0		9.8	9.8	9.0	9,8	9.8	9,8	9.8	9.8	9.0	9,8	9.8	9.8	9.8		(in/hr.) I	A K
05	0.5		0.5		0,5	0,5	0.5	0.5		0,5	0.5		0.5	0.5	0.5	0.5	0.5	0,5	0.5	0.5	0,5	0,5	0.5	0.5	0.5		Coeff	AKEA KUNUFF  Q = CIA
7 86	6.24		2.20		0.73	3,93	4.04	0.55		8.34	20.79		6.77	4.01	15.65	2.56	1.62	1.85	1.95	2.39	23,88	1.64	1.38	1.69	1.51		Area (ac.)	
ω ∞ υι	30.6		10.8		3,6	19.3	19.8	2.7		40.9	93.6		30.5	18.0	52.8**	12.5	7.9	9,1	9.6	11.7	107.5	8, 1	6.8	8.3	7.4		"Q" (c.f.s.)	
0	0.0		0.0		S. S	0.0	0.0	9.6		0.0	0.0		64.8	33.8	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		Inlet (c.f.s.)	Carry-Over From Unetworm
 ≫ ≯ı	30.6		10.8		12.4	19.3	19.8	12.3		40.9	=======================================		95.3	51.8	52.8	12.7	7,9	9,1	9.6	11.7	107.5	8,1	6.8	8.3	7.4		Flow (c.f.s.)	Total
1	28*		***		20	26	30	20		### ### ### #### #####################	=======================================		***	16*	16*	16*	26	26	26	26	26	26	26	26	26		Capacity (c.f.s.)	Difference
T p	1.25%		LP		2.5%	5%	7%	2.5%		LP			LP	5%	5%	5%	5%	5%	59%	5%	5%	5%	5%	5%	5%		Slope (ft./100 ft.)	Chittee
Paraholic	Parabolic		Parabolic		Parabolic	Parabolic	Parabolic	Parabolic		Parabolic			Parabolic	Parabolic	Parabolic	Parabolic	Parabolic	Parabolic	Parabolic	Parabolic	Parabolic	Parabolic	Parabolic	Parabolic	Parabolic		Crown Type	
10. 2-15+2x2 Curb & Dron	2-20		3x3		16	20	14	10+14		10+2-14	5x3		3-6-5-10	2-6+12	6+2-10	3-6	8+6	6-10	6-10	6-10	6-20	6+8	6+6	6+8	6+8		"Li" (Feet)	SELECTED
2 Carb & Dror	Curb	Y	Drop		Curb	Curb	Curb	Curb		Curb	Hdw1.		Curb	Curb	Curb	Curb	Curb	Curb	Curb	Curb	Curb	Curb	Curb	Curb	Curb		Type	ED INLET
00	0,0		0.0	# # # # # # # # # # # # # # # # # # #	1,9	6,5	11.9	0.0		0.0	0.0		0,0	34.1	33.8	0.0	0.0	0,0	0.0	1.9	30.7	0,0	0.0	0.2	0.0		Inlet (c.f.s.)	Carry-Over To

- \* Full street capacity with flow to top of curb.
  \*\* 17.6 cfs assumed to flow out of drainage basin.

RONALD V CONWAY \$ 37891 0 B

This record drawing is a compilation of the sealed engineering drawing for this project; modified by addenda, change orders and information furnished by the contractor. The information shown on the record drawings that was provided by the contractor or others not associated with the design engineer cannot be verified for accuracy or completeness. This original sealed drawings are on file at the offices of Birkhoff, Hendricks & Conway, L.L.P.

BY RVC

DATE <u>5/12/09</u>

PLOTTED BY: WHAYS ON 5/13/2009

PLOT STYLE: 11x17.ctb

