

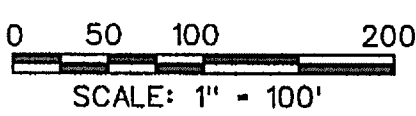
S.H. 205

RUNOFF COMPUTATIONS

#	Area (sf)	Area (acres)	Runoff Coefficient	Tc (min)	Q(100) (cfs)	Q(100) (cfs)
1	64913	1.49	0.50	10	9.8	7.3
2	56144	1.29	0.50	10	9.8	6.3
3	72810	1.67	0.50	10	9.8	6.2
4	112593	2.59	0.50	10	9.8	12.7
5	62955	1.45	0.50	10	9.8	7.1
6	37307	0.86	0.50	10	9.8	4.2
6A	20770	0.48	0.70	10	9.8	3.3
7	61389	1.41	0.50	10	9.8	6.9
8	59550	1.37	0.70	10	9.8	9.4
9	47155	1.08	0.50	10	9.8	5.3
10	93188	2.14	0.70	10	9.8	14.7
11	51869	1.19	0.50	10	9.8	5.8
12	13919	0.32	0.50	10	9.8	1.6
12A	94904	2.16	0.50	10	9.8	10.7
13	22937	0.53	0.90	10	9.8	4.6
14	28155	0.65	0.90	10	9.8	5.7
15	23663	0.47	0.90	10	9.8	4.2
16	91340	2.10	0.50	10	9.8	10.3
17	23239	0.53	0.50	10	9.8	2.6
18	207002	4.75	0.35	15	8.3	13.8
19	76230	1.75	0.50	10	9.8	8.6
20	168662	3.85	0.50	10	9.8	22.4
21	277690	6.36	0.50	10	9.8	31.3
22	86207	1.98	0.50	10	9.8	9.7
23	39213	0.90	0.50	10	9.8	4.4
24	941551	21.62	0.90	10	9.8	190.6
25	165986	3.75	0.35	10	8.3	11.0
26	202645	4.66	0.50	10	9.8	22.0
27	143285	3.29	0.50	10	9.8	16.1
28	88428	2.03	0.50	10	9.8	10.0

INLET CALCULATIONS

Inlet #	Location	Station	Design Storm Frequency	Time of Conc. (min)	Intensity (in/hr)	Runoff Coeff	Area (acres)	Q (cfs)	Gutter			Selected Inlet	Carry-Over to Downstream Inlet (cfs)	Inlet Capacity (cfs)			
									Flow	Capacity	Slope						
1	Wales/Knox	100	10	9.8	0.50	1.49	7.3	0.0	7.3	10.6	5' pbl	10	STD.	21.0			
2	Wales	2+44.50	100	10	9.8	0.50	1.29	6.3	0.0	6.3	12.3	Low Pt	5' pbl	10	STD.	0.0	21.0
3	Mountcastle	6+24.10	100	10	9.8	0.50	1.67	8.2	0.0	8.2	17.7	Low Pt	5' pbl	10	STD.	0.0	21.0
4	Mountcastle	6+24.10	100	10	9.8	0.50	2.59	12.7	0.0	12.7	17.7	Low Pt	5' pbl	10	STD.	0.0	21.0
5	Mountcastle	18+21.45	100	10	9.8	0.50	1.45	7.1	0.0	7.1	16.6	1.65%	5' pbl	15	STD.	0.0	11.5
6	Mountcastle	18+36.80	100	10	9.8	0.57	1.33	7.5	0.0	7.5	21.7	2.36%	5' pbl	15	STD.	0.0	10.5
7	Mountcastle	9+91.44	100	10	9.8	0.50	1.41	6.9	0.0	6.9	19.3	1.20%	5' pbl	10	STD.	0.1	6.8
8	Mountcastle	9+89.02	100	10	9.8	0.70	1.37	9.4	0.0	9.4	21.7	2.07%	5' pbl	10	STD.	2.9	6.6
9	Greenway	16+75.00	100	10	9.8	0.50	1.08	5.3	3.0	8.3	21.1	1.96%	5' pbl	15	STD.	0.0	10.0
10	Greenway	16+47.73	100	10	9.8	0.70	2.14	14.7	0.0	14.7	N/A	Low Pt	4	WYE	0.0	20.5	
11	Greenway	21+00.00	100	10	9.8	0.50	1.19	5.8	0.0	5.8	10.6	1.83%	5' pbl	10	STD.	0.0	6.3
12	Greenway	20+97.60	100	10	9.8	0.50	0.32	1.6	0.0	1.8	10.6	0.88%	5' pbl	10	STD.	0.0	6.3
12A	Greenway	21+10.00	100	10	9.8	0.50	2.18	10.7	0.0	10.7	N/A	Low Pt	4	WYE	0.0	20.5	
13	Stone Creek	4+82.65	100	10	9.8	0.90	0.53	4.6	0.0	4.6	27.0	1.69%	1/4"R	10	STD.	0.0	5.6
14	Featherstone	36+47.97	100	10	9.8	0.90	0.65	5.7	0.0	5.7	21.9	2.10%	5' pbl	10	STD.	0.0	6.2
15	Stone Creek	4+82.65	100	10	9.8	0.90	0.47	4.2	0.0	4.2	27.0	1.69%	1/4"R	10	STD.	0.0	5.6



LEGEND

- PROP. STORM SEWER
- PROP. CURB INLETS
- PROP. CONC. HEADWALL
- EXIST. STORM SEWER
- DRAINAGE AREA DIVIDE
- FLOW ARROW
- DRAINAGE AREA NO.

AS-BUILT SEPTEMBER 2015
 INFORMATION PROVIDED BY CONTRACTORS (NOT FIELD VERIFIED)



The seal appearing on this document was authorized by Brandon Davidson P.E. 87682, on September 10, 2014.

BENCHMARK:
 CITY OF ROCKWALL SURVEY MONUMENT ON AN INLET AT THE NORTHWEST CORNER OF FEATHERSTONE DR. AND HARVARD DR.
 ELEV.- 525.31

CORWIN ENGINEERING, INC.
 200 W. BELMONT, SUITE E
 ALLEN, TEXAS 75013 (972)396-1200
 TBPE FIRM #5951

**DEVELOPMENT PLANS FOR
 STONE CREEK
 PHASE VI
 ROCKWALL, TEXAS**

DRAINAGE AREA MAP
 SHEET 1 OF 2

DRAWN BY	DESIGNED BY	CHECKED BY	SHEET NO.
JOB NUMBER	DATE	SCALE:	4 OF 26
13068	MAY 2014	1"=100'	