



SEE SHEET FOR EXISTING INLET CAPACITY ANALYSIS

RELEASED FOR CONSTRUCTION. ALL RESPONSIBILITY FOR ADEQUACY OF DESIGN REMAINS WITH THE DESIGN ENGINEER. THE CITY OF ROCKWALL IN REVIEWING AND RELEASING PLANS FOR CONSTRUCTION, ASSUMES NO RESPONSIBILITY FOR ADEQUACY OR ACCURACY OF DESIGN.

INLET CALCULATIONS

No.	Inlet Location	Design Storm Freq. (years)	Tc (min)	Area Runoff: C=CA			Carry-Over from Upstream (cfs)	Total Gutter Flow (cfs)	Gutter Capacity (cfs)	Gutter Slope (ft/100ft)	Selected Inlet					
				Intensity (in/hr)	Runoff Coeff. "C"	Area (acres)					Type	Length (ft)	Inlet Capacity (cfs)	Carry-Over to Inlet (cfs)		
1	4+65 Shady Branch	100	10	9.8	0.5	1.34	6.6	0.0	6.6	14.0	0.50%	6" pbl	10	STD.	7.8	0.0
2	4+65 Shady Branch	100	10	9.8	0.5	1.69	8.3	0.0	8.3	14.0	0.50%	6" pbl	10	STD.	7.8	0.5
3	0+70 Lone Run	100	10	9.8	0.5	2.41	11.8	0.5	12.3	14.0	0.50%	6" pbl	15	STD.	13.5	0.0
4	0+70 Lone Run	100	10	9.8	0.5	1.74	8.5	0.0	8.5	14.0	0.50%	6" pbl	15	STD.	13.5	0.0
5	11+35 Pleasant View	100	10	9.8	0.5	1.08	5.3	0.0	5.3	25.0	1.60%	6" pbl	10	STD.	6.7	0.0
6	11+35 Pleasant View	100	10	9.8	0.5	1.75	8.6	0.0	8.6	25.0	1.60%	6" pbl	15	STD.	10.3	0.0
7	6+50 Pleasant View	100	10	9.8	0.5	0.97	4.7	0.0	4.7	33.1	2.80%	6" pbl	10	STD.	6.4	0.0
8	6+50 Pleasant View	100	10	9.8	0.5	1.53	7.5	0.0	7.5	33.1	2.80%	6" pbl	10	STD.	6.4	1.1
9	1+90 Pleasant View	100	10	9.8	0.5	1.54	7.6	0.0	7.6	28.2	2.04%	6" pbl	15	STD.	10.8	0.0
10	1+90 Pleasant View	100	10	9.8	0.5	0.97	4.8	1.1	5.8	28.2	2.04%	6" pbl	10	STD.	6.1	0.0
11	8+86 Amber Knoll	100	10	9.8	0.5	2.22	10.9	0.0	10.9	14.0	0.50%	6" pbl	15	STD.	13.5	0.0
12	8+86 Amber Knoll	100	10	9.8	0.5	1.63	8.0	0.0	8.0	14.0	0.50%	6" pbl	10	STD.	7.8	0.2
13	2+83 Amber Knoll	100	10	9.8	0.5	2.13	10.4	0.2	10.6	38.7	3.82%	6" pbl	15	STD.	9.8	0.8
14	0+62 Amber Knoll	100	10	9.8	0.5	2.10	10.3	0.0	10.3	34.3	3.00%	6" pbl	15	STD.	10.0	0.3
15	1+21 Lone Crest	100	10	9.8	0.5	2.38	11.6	0.0	11.6	32.5	2.70%	6" pbl	15	STD.	10.1	1.5
16	1+10 Lone Crest	100	10	9.8	0.5	1.85	9.0	0.0	9.0	32.5	2.70%	6" pbl	15	STD.	10.1	0.0
17	4+03 Noah Crest	100	10	9.8	0.5	1.63	8.0	1.1	9.1	14.0	Low Pt	6" pbl	10	STD.	21.0	0.0
18	4+03 Noah Crest	100	10	9.8	0.5	0.95	4.7	1.5	6.2	14.0	Low Pt	6" pbl	10	STD.	21.0	0.0

RUNOFF COMPUTATIONS

Area #	Area (ac)	Area (acres)	Runoff Coefficient	CA (mm)	Tc (min)	Q (100)	Q(10)
1	59282	1.34	0.50	0.87	10	9.80	6.8
2	73827	1.69	0.50	0.85	10	9.80	8.3
3	105168	2.41	0.50	1.21	10	9.80	11.8
4	73710	1.74	0.50	0.87	10	9.80	8.5
5	47070	1.08	0.50	0.54	10	9.80	5.3
6	78163	1.75	0.50	0.87	10	9.80	8.6
7	42169	0.97	0.50	0.48	10	9.80	4.7
8	89495	1.53	0.50	0.78	10	9.80	7.5
9	67243	1.54	0.50	0.77	10	9.80	7.6
10	42317	0.97	0.50	0.48	10	9.80	4.8
11	89857	2.22	0.50	1.11	10	9.80	10.9
12	71138	1.63	0.50	0.82	10	9.80	8.0
13	92831	2.13	0.50	1.08	10	9.80	10.4
14	91689	2.10	0.50	1.05	10	9.80	10.3
15	103549	2.38	0.50	1.19	10	9.80	11.6
16	80384	1.85	0.50	0.92	10	9.80	9.0
17	70789	1.53	0.50	0.81	10	9.80	8.0
18	41523	0.95	0.50	0.48	10	9.80	4.7
19	42378	0.97	0.50	0.49	10	9.80	4.8
20	84428	1.48	0.50	0.74	10	9.80	7.2
21	35526	0.82	0.50	0.41	10	9.80	4.0
22	39490	0.70	0.50	0.35	10	9.80	3.4
23	24851	0.57	0.50	0.29	10	9.80	2.8
24	16981	0.37	0.50	0.18	10	9.80	1.8
25	30385	0.70	0.50	0.35	10	9.80	3.4
26	10008	0.23	0.50	0.11	10	9.80	1.1
27	18859	0.26	0.50	0.12	10	9.80	1.2
EX1	1220877	28.03	0.35	9.81	20	8.30	81.4
EX2	620315	14.24	0.35	4.98	20	8.30	41.4
EX3	385914	8.68	0.35	3.10	20	8.30	25.7

LEGEND

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

AS-BUILT JULY 2014
INFORMATION PROVIDED BY CONTRACTORS (NOT FIELD VERIFIED)



The seal appearing on this document was authorized by Brandon Davidson P.E. 87682, on August 19, 2013

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TBP FIRM #5951

DEVELOPMENT PLANS FOR BREEZY HILL PHASE 2 ROCKWALL, TEXAS

DRAINAGE AREA MAP

DRAWN BY	DESIGNED BY	CHECKED BY	SHEET NO.
J3022	MAY 2013	SCALE: 1"=60'	4 OF 25