

INLET CALCULATION CHART

Area No.	INLET LOCATION		Design Storm Frequency (Years)	AREA RUNOFF				Runoff (cfs)	Carry-Over From Upstream Inlet (cfs)	Total Outlet Flow (cfs)	Street Capacity (cfs)	Street Type	Crown Type	SELECTED INLET			Carry-Over To Downstream Inlet (cfs)	Carry-Over To Downstream Inlet (ft)
	No.	STREET NAME		Time Of "C" (min)	Intensity (in/hr)	Runoff Coefficient	Area In Acres							Length (ft)	Type	Capacity (cfs)		
1	1	3+05.00 Conrad Dr.	100	10	9.80	0.50	1.74	8.53	0	8.53	0.50%	SAG	8" PAR.	10'	Curb	21.0	0	—
2	2	3+05.00 Conrad Dr.	100	"	"	"	1.69	8.28	0	8.28	0.50%	SAG	6" PAR.	10'	Curb	21.0	0	—
3	3	1+85.00 Durham	100	"	"	"	1.63	7.99	0	7.99	1.00%	SAG	6" PAR.	10'	Curb	21.0	0	—
4	4	1+85.00 Durham	100	"	"	"	2.17	10.63	0	10.63	1.00%	SAG	6" PAR.	10'	Curb	21.0	0	—
5	5	4+53.39 Gatewick	100	"	"	"	2.08	10.19	0	10.19	5.40%	SAG	6" PAR.	10'	Curb	21.0	0	—
6	6	7+33.45 Gatewick	100	"	"	"	0.74	3.63	2.19	5.82	5.60%	42.8	6" PAR.	10'	Curb	8.00	2.19	6
7	7	7+37.00 Gatewick	100	"	"	"	0.43	2.11	0	2.11	5.60%	42.8	6" PAR.	10'	Curb	4.92	0.90	15
8	8	5+16.00 Alley 'C'	100	"	"	"	1.37	6.71	0	6.71	5.55%	17.9	INV.	10'	Curb	4.91	1.80	14
9	9	7+57.56 Betty	100	"	"	"	1.90	9.31	0	7.56	5.50%	43.2	6" PAR.	15'	Curb	8.10	0	12
10	10	7+62.56 Betty	100	"	"	"	1.57	7.69	0	6.88	5.50%	43.2	6" PAR.	15'	Curb	8.10	0	—
11	11	7+76.87 Alley 'D'	100	"	"	"	0.48	2.35	0	2.35	5.00%	16.8	INV.	10'	Curb	4.90	0	—
12	12	10+49.24 Betty	100	"	"	"	0.86	4.21	1.21	6.80	3.50%	16.4	6" PAR.	10'	Curb	5.00	0.42	FUTURE
13	13	10+52.89 Betty	100	"	"	"	1.25	6.13	0	6.13	3.50%	16.4	6" PAR.	10'	Curb	5.00	1.13	FUTURE
14	14	7+95.00 Alley 'D'	100	"	"	"	0.74	3.36	1.80	5.16	5.55%	18.0	INV.	10'	Curb	4.91	0.25	15
15	15	8+92.78 Windham	100	"	"	"	0.73	3.57	1.15	4.72	3.00%	15.8	6" PAR.	10'	Curb	5.10	0	—
16	16	8+92.78 Windham	100	"	"	"	1.69	8.28	0	10.0	3.00%	18.0	6" PAR.	10'	Curb	5.10	3.18	17
17	17	2+28.82 Oakhurst	100	10	9.80	0.50	1.53	7.50	3.18	10.68	5.00%	SAG	6" PAR.	10'	Curb	21.0	0	—

DRAINAGE CALCULATIONS

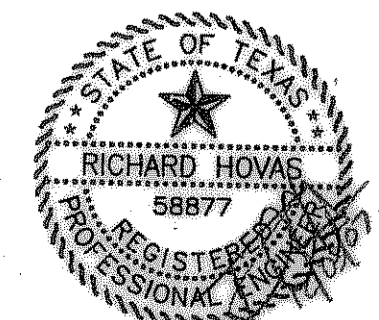
NO.	ACRES	C	Tc	I ₁₀₀	Q ₁₀₀	REMARKS
1	1.69	0.50	10	9.80	8.28	TO LINE A
2	1.74	0.50	10	9.80	8.53	TO LINE A
3	7.11	0.50	10	9.80	34.84	TO LINE B
4	1.63	0.50	10	9.80	7.99	TO LINE C1
5	2.17	0.50	10	9.80	10.63	TO LINE C1
6	2.08	0.50	10	9.80	10.19	TO LINE C
7	0.74	0.50	10	9.80	3.63	TO LINE C
8	0.43	0.50	10	9.80	2.11	TO LINE C
9	1.37	0.50	10	9.80	6.71	TO LINE D
10	0.74	0.50	10	9.80	3.63	TO LINE D
11	1.90	0.50	10	9.80	9.31	TO LINE D
12	1.57	0.50	10	9.80	7.69	TO LINE D
13	0.86	0.50	10	9.80	4.21	TO LINE D
14	1.25	0.50	10	9.80	6.13	TO LINE D
15	0.48	0.50	10	9.80	2.35	TO LINE D1
16	0.70	0.50	10	9.80	3.43	TO FUTURE
17	1.69	0.50	10	9.80	8.28	TO LINE D2
18	0.73	0.50	10	9.80	3.57	TO LINE D2
19	1.53	0.50	10	9.80	7.50	TO LINE E
20	0.42	0.50	10	9.80	2.06	TO FUTURE
21	0.12	0.50	10	9.80	0.59	TO FUTURE
22	1.15	0.50	10	9.80	5.64	TO EXISTING
23	0.60	0.50	10	9.80	2.94	TO EXISTING

RATIONAL METHOD
 $Q=CIA$
 C=0.50
 Tc=10 min.
 I=9.80

AS BUILT PLANS
 12/08/2008

The alignment and grade were set on the ground for construction per the plans. The engineer did not verify alignment or grades after construction. We are not aware of any changes or revisions to these plans during construction except as noted.

DRAINAGE AREA MAP
CASTLE RIDGE ESTATES PHASE 2
ROCKWALL, ROCKWALL COUNTY, TEXAS
TIPTON ENGINEERING, INC.



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DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
TE, Inc.	TE, Inc.	12-06	1"=60' H.	TE, Inc.	4803	11

