



OFF SITE DRAINAGE CALCULATIONS

DRAINAGE AREA NO.	ACRES	STATIONS		C	CA	SUB AREA			ZCA	DESIGN			WATER SURFACE			REMARKS		
		From	To			T _c	I ₁₀₀	Q ₁₀₀		T _c	I ₁₀₀	Q ₁₀₀	Length FT	Elevation TIME	Slope %		Velocity FT/Sec	
01	3.45	A	B	0.50	1.70	10	9.80	16.70	1.70	10	9.80	16.70	1100	2.30	Wor.	8.0		
02	1.01	A	C	0.50	"	"	9.80	4.90	2.20	10	9.80	21.60	1150	2.40	"	"		
03	0.43	D	C	0.20	"	"	9.80	2.20	2.40	10	9.80	23.50	450	0.90	"	"		
04	2.21	E	F	1.10	"	"	9.80	10.80	3.50	10	9.80	34.30	550	1.10	"	"		
05	3.79	G	H	0.50	1.90	10	9.80	18.00	5.40	12.00	9.80	51.30	300	0.40	10.0	12.0	210 R.C.P.	
		F	G	"	"	"	"	"	3.50	12.40	9.80	33.60	110	0.20	5.0	10.70		
		H	I	"	"	"	"	"	5.40	13.00	9.80	50.80	420	0.70	6.0	10.0		
06	2.14	J	K	0.50	1.10	10	9.80	10.80	1.10	10	9.80	16.80	530	0.70	10.0	12.0	I	
07	2.29	K	I	1.10	"	"	9.80	10.80	2.20	10	9.80	21.60	500	0.70	10.0	12.0	II	
									2.20	10.70	9.70							
08	2.38	D	I	0.50	1.20	10	9.80	11.70	1.20	10	9.80	11.70	680	0.90	10.0	12.0	III	
									1.20	10.90	9.80							
09	4.50	L	I	0.50	2.30	10	9.80	22.0	2.30	10	9.80	22.00	165	0.20	4.45	12.50	180 R.C.P.	
10	3.78	M	N	0.50	1.90	10	9.80	18.50	1.90	10	9.80	18.50	225	0.50	6.22	7.95	IV	
									1.90	10.50	9.80							
11	1.48	N	I	0.50	0.70	10	9.80	7.30	0.70	10	9.80	7.30	370	0.50	10.0	12	V	
									0.70	10.50	9.80							
SUMMARY																		VI
																		VII

BY: H.L.E. CITY OF ROCKWALL, TEXAS SHEET 5 OF 10
 DATE: 11-22-98 COMPUTATION SHEET FOR DETERMINING STREET HARBOR LND. DR.
 CK'D: n= MAJOR WATERSHED
 DATE: DATE JOB OR FILE NO.

INLET TYPE & NO.	STATION	D.A. NO.	Qp C.F.S.	CARRY-OVER FLOW Qo C.F.S.	TOTAL FLOW Qo+Qp C.F.S.	Z	Z/N	S _o FT/FT	Y _o FT	PONDED WIDTH	L _o C.F.S.	Q _o C.F.S.	L FT.	L _o FT.	Q _o C.F.S.	Q _o C.F.S.	CARRY-OVER FLOW Qo C.F.S.	REMARKS	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
	6+85.16	889	10.01	5.70	15.71	28	1750	0.05	.52	14.56	1.16	13.54	15	1.11	100	15.71			
	6+85.16	7	3.23	6.50	9.73	"	"	"	.42	11.74	1.04	9.26	10	1.07	"	9.73			
	11+21.35	10 E11	17.39	-	17.39	"	"	"	.54	15.12	1.76	14.99	20	1.22	"	17.39			
	11+21.35	12	5.47	-	5.47	"	"	"	.35	9.24	0.96	5.25	16	1.96	"	5.47			

DRAINAGE CALCULATIONS

NO.	ACRES	T _c	C	I ₂₅	Q ₂₅	Q ₂₅ Acc.	I ₁₀₀	Q ₁₀₀	Q ₁₀₀ Acc.
01-011	27.46	13.70	0.50				9.30	127.69	127.69
5	3.64	10	"				9.8	17.84	17.84
6	0.58	"	"				"	2.84	148.37
10	2.50	"	"				"	12.25	
11	1.28	"	"				"	6.27	
12	1.19	"	"				"	5.83	172.72
8	1.15	"	"				"	5.64	
Off Site								5.70	
9	1.05	10	0.50				9.8	5.15	189.21
Off Site								6.50	
7	0.71	10	0.50				9.8	3.48	199.19
Line B								23.60	222.79

L.M.
 Top Nut of F.H. at Intersection of
 Yacht Club Drive & Harbor Landing Drive
 Elev. 514.57

LEGEND:
 7 ON-SITE DRAINAGE AREA.
 6 OFF-SITE DRAINAGE AREA

HAROLD L. EVANS
 CONSULTING ENGINEER
 2331 GUS THOMASSON RD. SUITE 102
 DALLAS, TEXAS 75228
 PHONE (214) 328-8133
 SCALE 1"=100' DATE 4-14-87 JOB NO. 8755

DRAINAGE AREA MAP
 HARBOR LANDING PHASE TWO
 CITY OF ROCKWALL
 ROCKWALL COUNTY, TEXAS

11-02-98 9873
 11-25-98 11-30-98 12-22-98

5
10