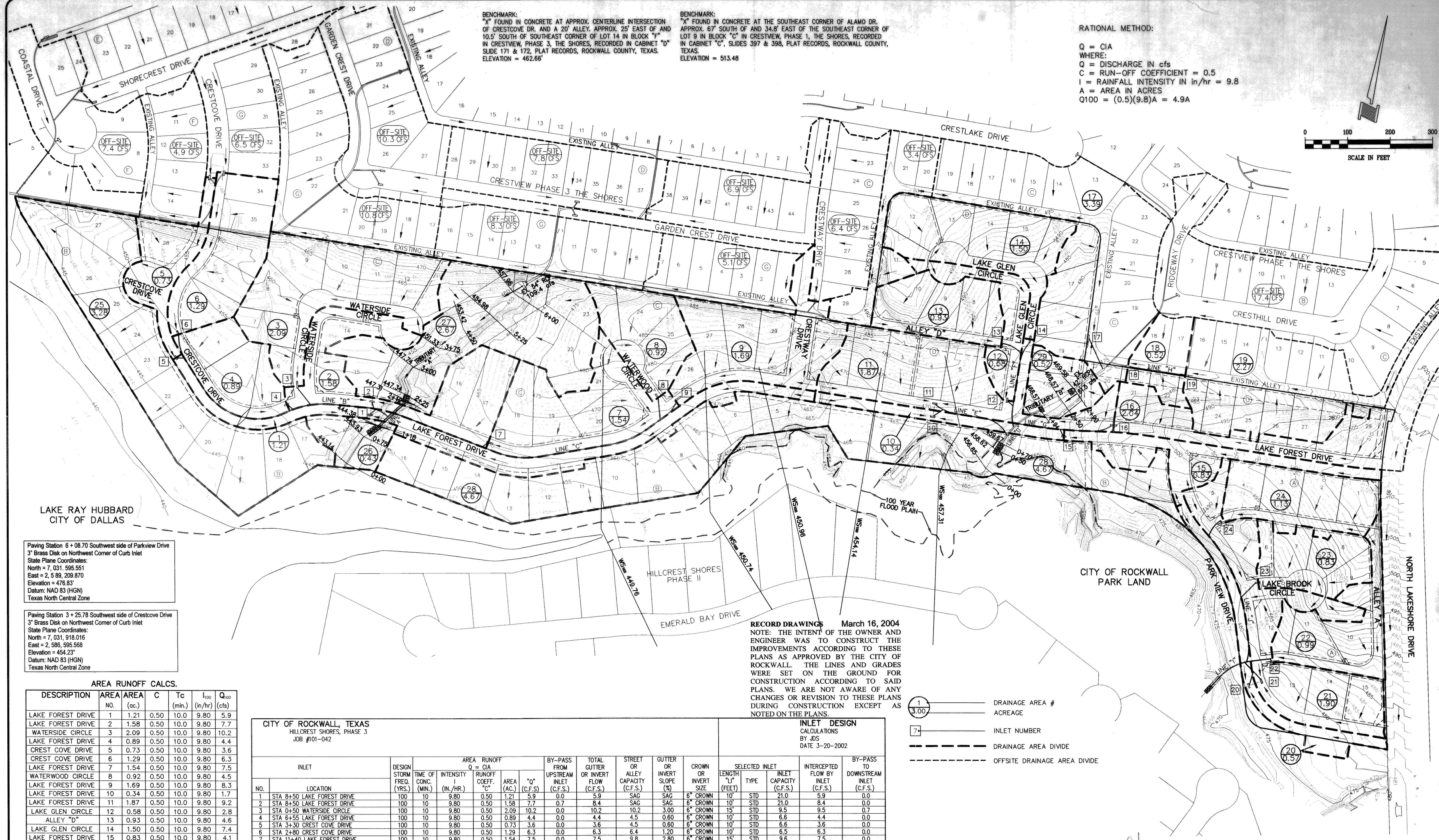
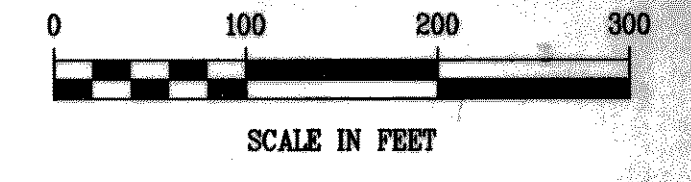


BENCHMARK: "X" FOUND IN CONCRETE AT APPROX. CENTERLINE INTERSECTION OF CRESTCOVE DR. AND A 20' ALLEY, APPROX. 25' EAST OF AND 10.5' SOUTH OF SOUTHEAST CORNER OF LOT 14 IN BLOCK "F" IN CRESTVIEW, PHASE 3, THE SHORES, RECORDED IN CABINET "D" SLIDE 171 & 172, PLAT RECORDS, ROCKWALL COUNTY, TEXAS. ELEVATION = 462.66'

BENCHMARK: "X" FOUND IN CONCRETE AT THE SOUTHEAST CORNER OF ALAMO DR. APPROX. 67' SOUTH OF AND 34.8' EAST OF THE SOUTHEAST CORNER OF LOT 9 IN BLOCK "C" IN CRESTVIEW, PHASE 1, THE SHORES, RECORDED IN CABINET "C", SLIDES 397 & 398, PLAT RECORDS, ROCKWALL COUNTY, TEXAS. ELEVATION = 513.48

RATIONAL METHOD:

Q = CIA  
 WHERE:  
 Q = DISCHARGE IN cfs  
 C = RUN-OFF COEFFICIENT = 0.5  
 I = RAINFALL INTENSITY IN in/hr = 9.8  
 A = AREA IN ACRES  
 Q100 = (0.5)(9.8)A = 4.9A



Paving Station 3 + 06.70 Southwest side of Parkview Drive  
 3" Brass Disk on Northwest Corner of Curb Inlet  
 State Plane Coordinates:  
 North = 7, 031, 595.551  
 East = 2, 589, 209.870  
 Elevation = 476.83'  
 Datum: NAD 83 (HGN)  
 Texas North Central Zone

Paving Station 3 + 25.78 Southwest side of Crestcove Drive  
 3" Brass Disk on Northwest Corner of Curb Inlet  
 State Plane Coordinates:  
 North = 7, 031, 918.016  
 East = 2, 586, 595.588  
 Elevation = 454.23'  
 Datum: NAD 83 (HGN)  
 Texas North Central Zone

AREA RUNOFF CALCS.

DESCRIPTION	AREA NO.	AREA (ac.)	C	Tc (min.)	I <sub>100</sub> (in/hr)	Q <sub>100</sub> (cfs)
LAKE FOREST DRIVE	1	1.21	0.50	10.0	9.80	5.9
LAKE FOREST DRIVE	2	1.58	0.50	10.0	9.80	7.7
WATERSIDE CIRCLE	3	2.09	0.50	10.0	9.80	10.2
LAKE FOREST DRIVE	4	0.89	0.50	10.0	9.80	4.4
CREST COVE DRIVE	5	0.73	0.50	10.0	9.80	3.6
CREST COVE DRIVE	6	1.29	0.50	10.0	9.80	6.3
LAKE FOREST DRIVE	7	1.54	0.50	10.0	9.80	7.5
WATERWOOD CIRCLE	8	0.92	0.50	10.0	9.80	4.5
LAKE FOREST DRIVE	9	1.69	0.50	10.0	9.80	8.3
LAKE FOREST DRIVE	10	0.34	0.50	10.0	9.80	1.7
LAKE FOREST DRIVE	11	1.87	0.50	10.0	9.80	9.2
LAKE GLEN CIRCLE	12	0.58	0.50	10.0	9.80	2.8
ALLEY "D"	13	0.93	0.50	10.0	9.80	4.6
LAKE GLEN CIRCLE	14	1.50	0.50	10.0	9.80	7.4
LAKE FOREST DRIVE	15	0.83	0.50	10.0	9.80	4.1
LAKE FOREST DRIVE	16	2.04	0.50	10.0	9.80	10.0
EXISTING ALLEY	17	3.39	0.50	10.0	9.80	16.6
EXISTING ALLEY	18	0.52	0.50	10.0	9.80	2.5
EXISTING ALLEY	19	2.27	0.50	10.0	9.80	11.1
PARK VIEW DRIVE	20	0.57	0.50	10.0	9.80	2.8
PARK VIEW DRIVE	21	1.90	0.50	10.0	9.80	9.3
ALLEY "A"	22	0.99	0.50	10.0	9.80	4.9
LAKE BROOK CIRCLE	23	0.83	0.50	10.0	9.80	4.1
ALLEY "A"	24	1.13	0.50	10.0	9.80	5.5
TO LAKE	25	3.28	0.50	10.0	9.80	16.1
TRIBUTARY "A" TO LAKE	26	0.43	0.50	10.0	9.80	2.1
TRIBUTARY "A" TO LAKE	27	2.67	0.50	10.0	9.80	13.1
TO LAKE	28	4.67	0.50	10.0	9.80	22.9
TRIBUTARY "B" TO LAKE	29	0.52	0.50	10.0	9.80	2.5

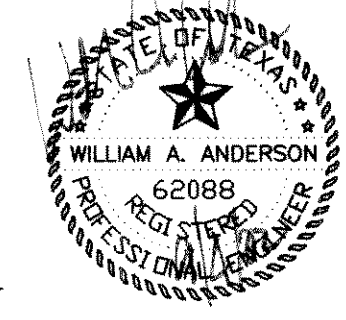
CITY OF ROCKWALL, TEXAS  
 HILLCREST SHORES, PHASE 3  
 JOB #101-042

INLET NO.	LOCATION	DESIGN STORM FREQ. (YRS.)	TIME OF CONC. (MIN.)	AREA RUNOFF Q = CIA			BY-PASS FROM UPSTREAM INLET (C.F.S.)	TOTAL GUTTER OR INVERT FLOW (C.F.S.)	STREET OR ALLEY CAPACITY (C.F.S.)	GUTTER OR INVERT SLOPE (%)	CROWN OR INVERT SIZE	SELECTED INLET		INTERCEPTED FLOW BY INLET (C.F.S.)	BY-PASS TO DOWNSTREAM INLET (C.F.S.)		
				INTENSITY I (IN./HR.)	RUNOFF COEFF. "C"	AREA (AC.)						"Q" (C.F.S.)	LENGTH "L" (FEET)			INLET TYPE	INLET CAPACITY (C.F.S.)
1	STA 8+50 LAKE FOREST DRIVE	100	10	9.80	0.50	1.21	5.9	0.0	5.9	SAG	6" CROWN	10'	STD	21.0	5.9	0.0	
2	STA 8+50 LAKE FOREST DRIVE	100	10	9.80	0.50	1.58	7.7	0.7	8.4	SAG	6" CROWN	10'	STD	21.0	8.4	0.0	
3	STA 0+50 WATERSIDE CIRCLE	100	10	9.80	0.50	2.09	10.2	0.0	10.2	10.2	3.00	6" CROWN	15'	STD	9.5	9.5	0.7
4	STA 6+55 LAKE FOREST DRIVE	100	10	9.80	0.50	0.89	4.4	0.0	4.4	4.5	0.60	6" CROWN	10'	STD	6.6	4.4	0.0
5	STA 3+30 CREST COVE DRIVE	100	10	9.80	0.50	0.73	3.6	0.0	3.6	4.5	0.60	6" CROWN	10'	STD	6.6	3.6	0.0
6	STA 2+80 CREST COVE DRIVE	100	10	9.80	0.50	1.29	6.3	0.0	6.3	6.4	1.20	6" CROWN	10'	STD	6.5	6.3	0.0
7	STA 11+40 LAKE FOREST DRIVE	100	10	9.80	0.50	1.54	7.5	0.0	7.5	9.8	2.80	6" CROWN	15'	STD	9.6	7.5	0.0
8	STA 0+50 WATERWOOD CIRCLE	100	10	9.80	0.50	0.92	4.5	0.0	4.5	11.7	4.00	6" CROWN	10'	STD	5.6	4.5	0.0
9	STA 16+30 LAKE FOREST DRIVE	100	10	9.80	0.50	1.69	8.3	0.0	8.3	8.9	2.30	6" CROWN	15'	STD	9.9	8.3	0.0
10	STA 22+40 LAKE FOREST DRIVE	100	10	9.80	0.50	0.34	1.7	0.0	1.7	SAG	6" CROWN	10'	STD	21.0	1.7	0.0	
11	STA 22+40 LAKE FOREST DRIVE	100	10	9.80	0.50	1.87	9.2	0.5	9.7	SAG	6" CROWN	10'	STD	21.0	9.7	0.0	
12	STA 0+50 LAKE GLEN CIRCLE	100	10	9.80	0.50	0.58	2.8	0.0	2.8	4.1	0.50	6" CROWN	10'	STD	7.3	2.8	0.0
13	STA 3+64 ALLEY "D"	100	10	9.80	0.50	0.93	4.6	0.0	4.6	16.3	4.80	5" INVERT	10'	STD	5.3	4.6	0.0
14	STA 2+00 LAKE GLEN CIRCLE	100	10	9.80	0.50	1.50	7.4	0.0	7.4	8.3	2.00	6" CROWN	15'	STD	10.0	7.4	0.0
15	STA 25+50 LAKE FOREST DRIVE	100	10	9.80	0.50	0.83	4.1	0.0	4.1	4.2	0.52	6" CROWN	10'	STD	7.3	4.1	0.0
16	STA 28+65 LAKE FOREST DRIVE	100	10	9.80	0.50	2.04	10.0	0.0	10.0	10.3	3.10	6" CROWN	15'	STD	9.5	9.5	0.5
17	EXISTING ALLEY	100	10	9.80	0.50	3.39	16.6	5.0	21.6	SAG	5" INVERT	15'	STD	30.2	21.6	0.0	
18	EXISTING ALLEY	100	10	9.80	0.50	0.52	2.5	5.4	7.9	17.9	5.80	5" INVERT	10'	STD	5.2	5.2	2.7
19	EXISTING ALLEY	100	10	9.80	0.50	2.27	11.1	0.0	11.1	12.0	2.60	5" INVERT	10'	STD	5.7	5.7	5.4
20	STA 6+13 PARK VIEW DRIVE	100	10	9.80	0.50	0.57	2.8	0.0	2.8	SAG	6" CROWN	10'	STD	21.0	2.8	0.0	
21	STA 6+13 PARK VIEW DRIVE	100	10	9.80	0.50	1.90	9.3	0.2	9.5	SAG	6" CROWN	10'	STD	21.0	9.5	0.0	
22	STA 9+56 ALLEY "A"	100	10	9.80	0.50	0.99	4.9	0.0	4.9	16.3	4.78	5" INVERT	10'	STD	5.3	4.9	0.0
23	STA 0+45 LAKE BROOK CIRCLE	100	10	9.80	0.50	0.83	4.1	0.0	4.1	15.1	6.64	6" CROWN	10'	STD	5.3	4.1	0.0
24	STA 0+50 ALLEY "A"	100	10	9.80	0.50	1.13	5.5	0.0	5.5	17.1	5.28	5" INVERT	10'	STD	5.3	5.3	0.2

RECORD DRAWINGS March 16, 2004  
 NOTE: THE INTENT OF THE OWNER AND ENGINEER WAS TO CONSTRUCT THE IMPROVEMENTS ACCORDING TO THESE PLANS AS APPROVED BY THE CITY OF ROCKWALL. THE LINES AND GRADES WERE SET ON THE GROUND FOR CONSTRUCTION ACCORDING TO SAID PLANS. WE ARE NOT AWARE OF ANY CHANGES OR REVISION TO THESE PLANS DURING CONSTRUCTION EXCEPT AS NOTED ON THE PLANS.

- 1 3.00 DRAINAGE AREA #
- 7 ACREAGE
- 7 INLET NUMBER
- DRAINAGE AREA DIVIDE
- OFFSITE DRAINAGE AREA DIVIDE

These construction plans were prepared under the responsible supervision of William A. Anderson, Registered Professional Engineer No. 79858



**DRAINAGE AREA MAP**  
**HILLCREST SHORES PHASE THREE**  
 CITY OF ROCKWALL  
 ROCKWALL COUNTY, TEXAS

**DOWDEY, ANDERSON & ASSOCIATES, INC.**  
 5225 VILLAGE CREEK DR., STE. 200 (972) 931-0694 PLANO, TEXAS

DESIGN	DRAWN	CHECKED	DATE	SCALE	JOB	SHEET
JDS	GG	WAA	SEPT. 2001	1"=100'	101-042	1

NO.	DATE	BY	REVISION
1	3/28/02	JDS	CITY MARKUPS
2	6/27/02	JDS	CITY MARKUPS
3	9/4/02	JDS	CITY MARKUPS