

INLET DESIGN CALCULATIONS

PROJECT NAME CARUTH LAKE, PH. 5 BY N.K.
 LINE NAME N/A DATE 7/8/97

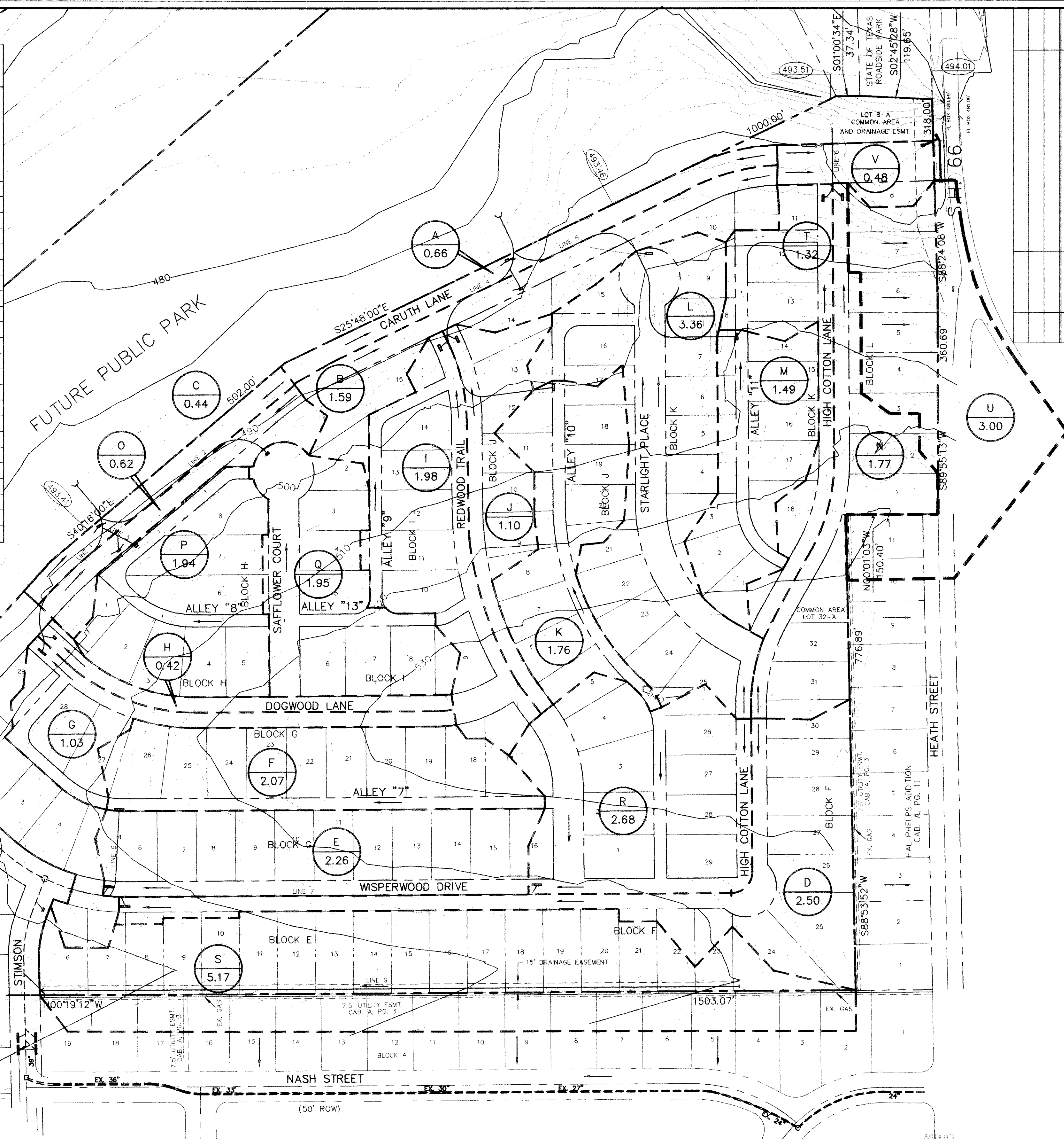
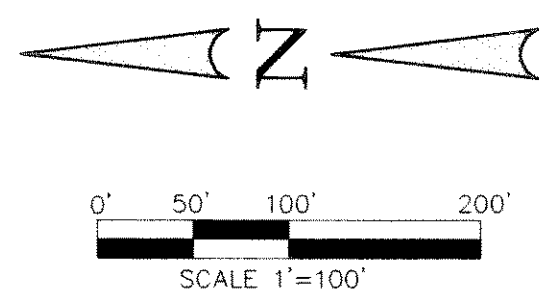
No.	Location	Design Storm Frequency (yrs.)	AREA RUNOFF Q = C/A					Carry-Over From Upstream Inlet (c.f.s.)	Total Gutter Flow (c.f.s.)	Gutter Capacity (c.f.s.)	Gutter Slope (ft./100ft.)	Crown Type	SELECTED INLET		Carry-Over to Downstream Inlet (c.f.s.)
			Time of Conc. (min.)	Intensity I (in./hr.)	Runoff Coeff. "C"	Area (ac.)	"Q" (c.f.s.)						Length "L" (Feet)	Type	
A	STA. 29+00 CARUTH LANE (LT.)	100	10	9.8	0.50	0.66	3.23	0	3.23	SAG	SAG	7" PARABOLIC	5'	C.I.	0
B	STA. 29+00 CARUTH LANE (RT.)	100	10	9.8	0.50	1.59	7.79	2.90	10.69	SAG	SAG	7" PARABOLIC	5'	C.I.	0
C	STA. 21+03.87 CARUTH LANE (LT.)	100	10	9.8	0.50	0.44	2.16	0	2.16	SAG	SAG	7" PARABOLIC	5'	C.I.	0
D	STA. 4+43.20 WISPERWOOD DR. (RT.)	100	10	9.8	0.50	2.50	12.25	0	12.25	18.57	2.48	6" PARABOLIC	15'	C.I.	1.75
E	STA. 4+26.15 WISPERWOOD DR. (LT.)	100	10	9.8	0.50	2.26	11.07	1.63	12.70	16.85	2.04	6" PARABOLIC	15'	C.I.	2.10
F	STA. 3+45.08 ALLEY "7" (RT.)	100	10	9.8	0.50	2.07	10.14	0	10.14	14.28	3.67	ALLEY	15'	C.I.	1.94
G	STA. 0+55.50 DOGWOOD LANE (RT.)	100	10	9.8	0.50	1.03	5.05	1.94	6.99	22.78	3.73	6" PARABOLIC	15'	C.I.	0
H	STA. 0+55.50 DOGWOOD LANE (LT.)	100	10	9.8	0.50	0.42	2.06	0	2.06	22.78	3.73	6" PARABOLIC	5'	C.I.	0
I	STA. 9+41.17 REDWOOD TRAIL (LT.)	100	10	9.8	0.50	1.98	9.70	0	9.70	12.37	1.10	6" PARABOLIC	10'	C.I.	2.90
J	STA. 9+41.17 REDWOOD TRAIL (RT.)	100	10	9.8	0.50	1.10	5.39	0	5.39	12.37	1.10	6" PARABOLIC	10'	C.I.	0
K	STA. 8+72.88 ALLEY "10" (LT.)	100	10	9.8	0.50	1.76	8.62	0	8.62	10.82	2.11	ALLEY	10'	C.I.	3.22
L	STA. 7+26.31 STARLIGHT PLACE (LT.)	100	10	9.8	0.50	3.36	16.46	3.22	19.68	SAG	SAG	6" PARABOLIC	10'	C.I.	0
M	STA. 4+94.85 ALLEY "11" (LT.)	100	10	9.8	0.50	1.49	7.30	0	7.30	12.91	3.0	ALLEY	10'	C.I.	2.25
N	STA. 26+17.12 HIGH COTTON LANE (RT.)	100	10	9.8	0.50	1.77	8.67	0	8.67	12.03	1.04	6" PARABOLIC	10'	C.I.	1.77
O	STA. 21+03.87 CARUTH LANE (RT.)	100	10	9.8	0.50	0.62	3.04	0	3.04	SAG	SAG	7" PARABOLIC	5'	C.I.	0
P	STA. 3+50.51 ALLEY "8" (LT.)	100	10	9.8	0.50	1.94	9.51	0	9.51	SAG	SAG	ALLEY	5'	C.I.	0
Q	STA. 4+23.32 SAFFLOWER COURT (LT.)	100	10	9.8	0.50	1.95	9.56	0	9.56	SAG	SAG	6" PARABOLIC	5'	C.I.	0
R	STA. 11+15.45 WISPERWOOD DR. (LT.)	100	10	9.8	0.50	2.68	13.13	0	13.13	14.44	1.50	6" PARABOLIC	15'	C.I.	1.63
S	WEST OF WISPERWOOD DR.	100	10	9.8	0.50	5.17	25.33	0	25.33	-	-	-	-	-	0
T	STA. 26+17.12 HIGH COTTON LANE (LT.)	100	10	9.8	0.50	1.32	6.47	2.25	8.72	12.03	1.04	6" PARABOLIC	10'	C.I.	1.72
U	STA. 36+35.00 CARUTH LANE	100	10	9.8	0.50	3.00	14.17	0	14.17	N/A	3.50	N/A	N/A	N/A	N/A
V	STA. 36+08.00 CARUTH LANE	100	10	9.8	0.50	0.48	2.35	0	2.35	2.35	3.33	7" PARABOLIC	5'	C.I.	0

LEGEND

- AREA DESIGNATION
- AREA IN ACRES
- FLOW ARROWS
- PROPOSED INLETS
- PROPOSED STORM SEWER SYSTEM
- DRAINAGE AREA BOUNDARY
- POWER POLE
- GUY WIRE
- SANITARY SEWER MANHOLE
- EX. INLETS
- EX. STORM SEWER
- 100 YEAR W.S. ELEVATIONS BASED ON FULLY DEVELOPED WATERSHED PER N.W.R.S. STUDY DATED 12-18-97
- EX. CONTOURS

SCALE 1"=100'

REFER TO PLANS PREPARED BY WAI ON CARUTH LAKES PH 4 FOR ADJACENT DRAINAGE AREAS



Winkelmann & Associates, Inc.
 CONSULTING CIVIL ENGINEERS
 6744 W. WILLOW ST.
 DALLAS, TEXAS 75240
 (214) 988-7000 FAX

STATE OF TEXAS
 COUNTY OF ROCKWALL
 LUMBERGUS INVESTMENT CORPORATION
 5445 BELLEVUE ROAD, SUITE 203
 DALLAS, TEXAS 75240

**DRAINAGE AREA MAP
 CARUTH LAKE PHASE FIVE**

Scale: 1"=100' Date: 07/02/98
 Designed By: K.G./N.K.
 Drawn By: N.K.
 Checked By: K.G.
 File: I4633DAM.DWG
 Project No.: I4633-01(20)

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Winkelmann & Associates, Inc. hereby states that this plan, to the best of our knowledge is "As Built." Modifications from the originally approved construction documents have been made as per information provided by the contractor. Winkelmann & Associates, Inc. does not certify as to the correctness or quality of construction as no field inspection was performed.

J.E. Medd
 WINKELMANN & ASSOCIATES, INC. 10-14-99
 DATE