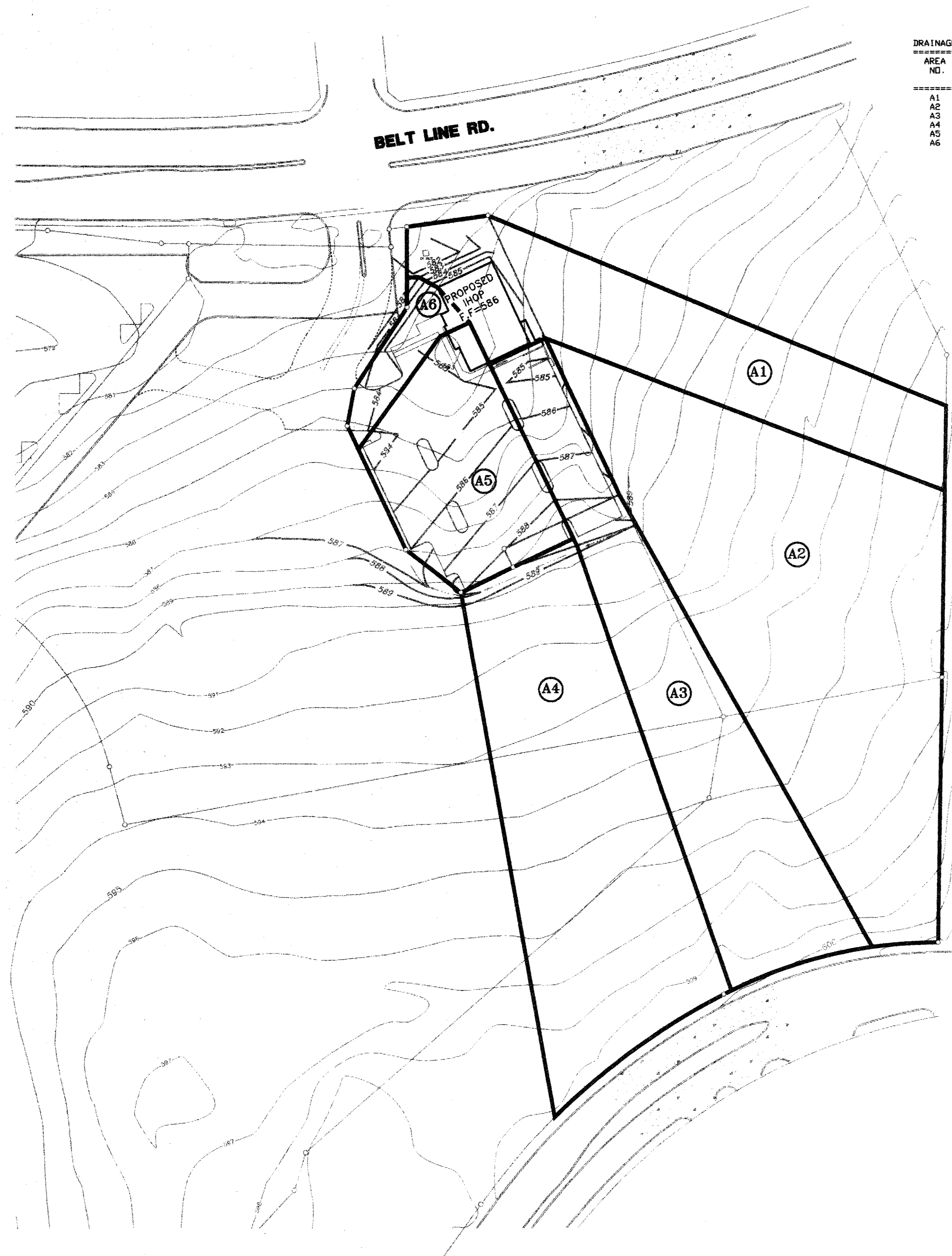


HYDRAULIC CALCULATIONS FOR STORM SEWER AND LATERALS

STATION	SECTION	PIPE DIA.	AREA	R	R 2/3	N	Q CFS	VEL FPS	V2/2g	SF	PIPE LENGTH	PIPE FRICTION	KJ	PIPE BENDS	KJ	WYES & MANHOLES	KJ	CHANGE	DIA	TOTAL LOSSES	WATER SURFACE	ENERGY GRADIENT	COMMENTS
0+00	A1	42	9.621	0.875	0.915	0.013	42.33	4.40	0.30	0.0018	0.00	0.00	0.00	0.00	0.05	0.02	1.00	0.30		577.11	577.43	577.73	DROP INLET
1+00	A2-A3	27	3.976	0.563	0.681	0.013	36.01	9.06	1.27	0.0135	100.00	1.35	0.00	0.00	0.60	0.76	0.00	0.00		2.12	579.54	580.82	24x27 WYE
1+04	A4-A5	27	3.976	0.563	0.681	0.013	14.11	3.55	0.20	0.0021	4.00	0.01	0.00	0.00	0.00	0.00	0.45	0.09		0.10	579.64	579.83	27 TO 24
1+70	A4-A5	24	3.142	0.500	0.630	0.013	14.11	4.49	0.31	0.0039	70.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00		0.27	579.81	580.13	INLET
0+00	A2	24	3.142	0.500	0.630	0.013	21.90	6.97	0.75	0.0094	0.00	0.00	0.00	0.00	0.60	0.45	0.45	0.34		0.79	580.33	581.09	24x27 WYE
1+52	A2	24	3.142	0.500	0.630	0.013	21.90	6.97	0.75	0.0094	151.90	1.42	0.00	0.00	0.40	0.30	0.00	0.00		1.73	582.06	582.81	INLET

DRAINAGE AREA CALCULATIONS

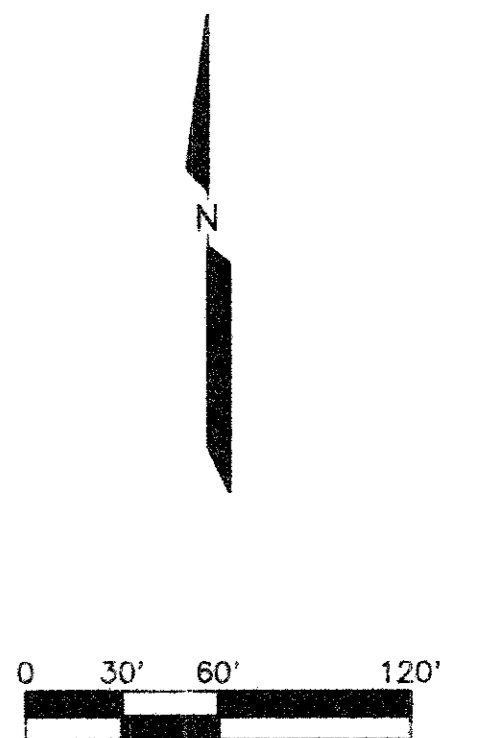
AREA NO.	RUNOFF COEFF. C	INTENSITY 1-100YR IN/HR	DRAINAGE AREA ACRES	RUNOFF Q-100YR CFS
A1	0.90	7.80	0.90	6.32
A2	0.90	7.80	2.03	14.25
A3	0.90	7.80	1.09	7.65
A4	0.90	7.80	1.44	10.11
A5	0.90	7.80	0.57	4.00
A6	0.90	7.80	0.13	0.91



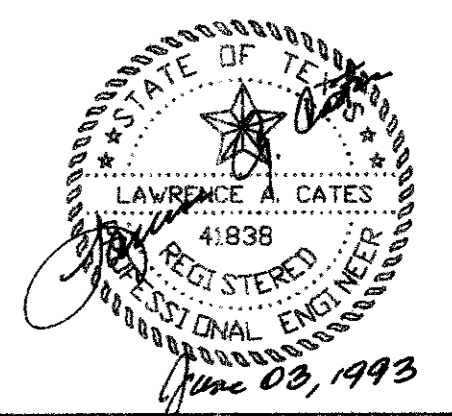
INLET DESIGN CALCULATIONS

BY _____
DATE _____

INLET No.	Location	Design Storm Frequency (yrs.)	AREA RUNOFF Q = CIA					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	
1	D.A. A3	100	10	7.80	0.90	1.09	7.65	0	7.65	9.0	SAG	TRIA	6	STD. C.I.	0
2	D.A. A5	100	10	7.80	0.90	0.57	4.00	0	4.00	9.0	SAG	TRIA	6	STD. C.I.	0



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY LAWRENCE A. CATES, P.E. 41838 ON MAY 27, 1993



DRAINAGE AREA MAP

INTERNATIONAL HOUSE OF PANCAKES
PALOMAR PARTNERS, LTD.
CITY OF ADDISON, TEXAS

LAWRENCE A. CATES & ASSOC. CONSULTING ENGINEERS DALLAS, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LAC	LAC		1"=60'	D.P.	DRNGAREA	C-3

AS-BUILTS
I CERTIFY THIS PROJECT WAS CONSTRUCTED IN GENERAL CONFORMANCE WITH THESE CONSTRUCTION PLANS AND WILL FUNCTION AS DESIGNED.

