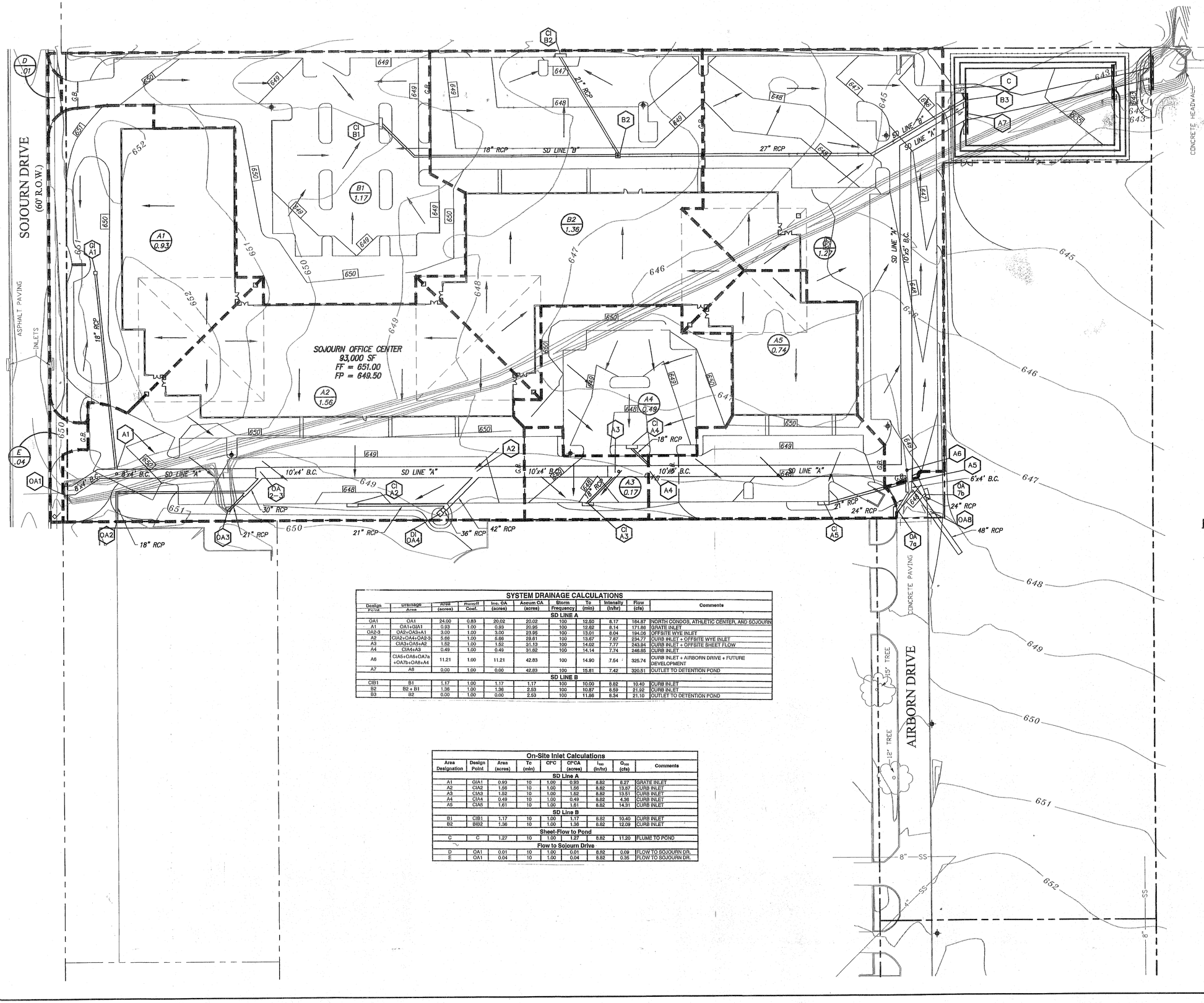

LEGEND

- DRAINAGE AREA BOUNDARY
- 1 — DESIGN POINT
- DR / AC — DRAINAGE AREA, NUMBER / ACREAGE
- DIRECTION OF RUNOFF
- 468 — EXISTING CONTOURS
- 668 — PROPOSED CONTOURS

NOTES

1. DRAINAGE CALCULATIONS HAVE BEEN BASED ON CITY OF CARROLLTON STORM DRAINAGE DESIGN MANUAL.
2. REFER TO SHEET C-6, C-7 AND C-8 FOR SD PLAN AND PROFILES

RECORD DRAWING
BASED ON THE INFORMATION SUPPLIED BY THE CONTRACTOR
DATE 3-5-00 TO: TRH

THE SEAL APPEARING ON THIS DOCUMENT WAS SIGNED, SEALED AND DATED BY
ENGINEER: TRICIA H. HATLEY
TEXAS REGISTRATION NO: 83282
DATE OCT. 6, 1999

TRICIA H. HATLEY 83282 LICENSED PROFESSIONAL ENGINEER

FREESE • NICHOLS
134 N. Mockingbird Lane • Suite 220 • E
Dallas, Texas 75247
214•920•2500

OMNIPLAN ARCHITECTS

SOJOURN OFFICE CENTER

ADDISON, TEXAS

SITEWORK PLANS

ONSITE DRAINAGE AREA MAP

F&N JOB NO. OMP99206
FILE 206Dannap
DATE 7-26-99
DESIGNED MDW
DRAWN SDH
REVISED
CHECKED THH

NO.	REVISION	BY	DATE
1	PER CONTRACTOR RFI "1" AND "8"	MDW	4/30/99
2	REVISED PER RAISING FF 1 FOOT	MDW	8/3/99

VERIFY SCALE Bar is one inch on original drawing. If not one inch on this sheet, adjust scale.
0 1"

SHEET C-5
SEQ. 8 OF 16

"AS-BUILTS"

SYSTEM DRAINAGE CALCULATIONS

Design Point	Drainage Area	Area (acres)	Runoff Coef.	Inc. OA (acres)	Accum OA (acres)	Storm Frequency	Tc (min)	Intensity (in/hr)	Flow (cfs)	Comments
SD LINE A										
OA1	OA1	24.00	0.83	20.02	20.02	100	12.50	8.17	184.87	NORTH CONDOS, ATHLETIC CENTER, AND SOJOURN
A1	OA1+GIA1	0.93	1.00	0.93	20.95	100	12.62	8.14	171.66	GRATE INLET
OA2-3	OA3+OA3+A1	3.00	1.00	3.00	23.95	100	13.01	8.04	194.08	OFFSITE WYE INLET
A2	CIA2+OA4+OA2-3	5.66	1.00	5.66	29.61	100	13.67	7.87	234.77	CURB INLET + OFFSITE WYE INLET
A3	CIA3+OA5+A2	1.52	1.00	1.52	31.13	100	14.02	7.77	243.94	CURB INLET + OFFSITE SHEET FLOW
A4	CIA4+A3	0.49	1.00	0.49	31.62	100	14.14	7.74	246.85	CURB INLET
A6	CIA5+OA6+OA7a +OA7b+OA8+A4	11.21	1.00	11.21	42.83	100	14.90	7.54	325.74	CURB INLET + AIRBORN DRIVE + FUTURE DEVELOPMENT
A7	A6	0.00	1.00	0.00	42.83	100	15.81	7.42	320.51	OUTLET TO DETENTION POND
SD LINE B										
CIB1	B1	1.17	1.00	1.17	1.17	100	10.00	8.82	10.40	CURB INLET
B2	B2 + B1	1.36	1.00	1.36	2.53	100	10.87	8.59	21.92	CURB INLET
B3	B2	0.00	1.00	0.00	2.53	100	11.86	8.34	21.10	OUTLET TO DETENTION POND

On-Site Inlet Calculations

Area Designation	Design Point	Area (acres)	Tc (min)	CI*C	CI*CA (acres)	i_{100} (in/hr)	Q_{100} (cfs)	Comments
SD Line A								
A1	GIA1	0.93	10	1.00	0.93	8.82	8.27	GRATE INLET
A2	CIA2	1.56	10	1.00	1.56	8.82	13.87	CURB INLET
A3	CIA3	1.52	10	1.00	1.52	8.82	13.51	CURB INLET
A4	CIA4	0.49	10	1.00	0.49	8.82	4.36	CURB INLET
A5	CIA5	1.61	10	1.00	1.61	8.82	14.31	CURB INLET
SD Line B								
B1	CIB1	1.17	10	1.00	1.17	8.82	10.40	CURB INLET
B2	BIB2	1.36	10	1.00	1.36	8.82	12.09	CURB INLET
Sheet-Flow to Pond								
C	C	1.27	10	1.00	1.27	8.82	11.20	FLUME TO POND
Flow to Sojourn Drive								
D	OA1	0.01	10	1.00	0.01	8.82	0.09	FLOW TO SOJOURN DR.
E	OA1	0.04	10	1.00	0.04	8.82	0.35	FLOW TO SOJOURN DR.