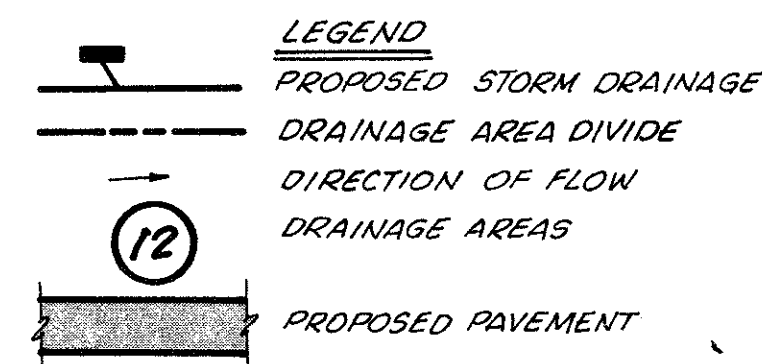


DRAINAGE AREA CALCULATION*

* BASED ON THE RATIONAL METHOD WHERE $Q = CIA$
 WHERE Q IS THE DISCHARGE IN CUBIC FEET PER SECOND (cfs)
 I IS THE RAINFALL INTENSITY IN INCH/HOUR.
 A IS THE DRAINAGE AREA IN ACRES.
 C IS THE RUNOFF COEFFICIENTS

AREA NO.	AREA (acres)	C	T _c (min)	I ₁₀₀ (in/hr)	Q ₁₀₀ (cfs)	POINT OF CONCENTRATION
1.	8.50 (off-site)	0.45	15	6.80	26.01	2-14' INLETS
2.	3.50 (off-site)	0.45	15	6.80	10.71	SPECIAL TYPE "Y" INLET
3.	3.80 (on-site)	0.45	15	6.80	11.63	10' INLET & 5' INLET
4.	4.95 (on-site)	0.45	15	6.80	15.15	2-10' INLETS
5.	4.40 (off-site)	0.45	15	6.80	13.46	SPECIAL TYPE "Y" INLET
6.	4.86 (on-site)	0.45	15	6.80	14.87	14' INLET
7.	2.74 (on-site)	0.45	15	6.80	8.38	10' INLET
8.	1.70 (on-site)	0.45	15	6.80	5.20	OFF-SITE
9.	0.46 (on-site)	0.45	15	6.80	1.41	OFF-SITE
10.	2.98 (on-site)	0.45	15	6.80	9.12	10' INLET
11.	1.14 (on-site)	0.45	15	6.80	3.49	OFF-SITE
12.	3.00 (on-site)	0.45	15	6.80	9.18	10' INLET
13.	1.64 (on-site)	0.45	15	6.80	5.08	CREEK



NOTES:

1. ALL STREET ROW WIDTHS ARE 50' UNLESS OTHERWISE NOTED.
2. ALL CUL-DE-SAC ROW DIAMETERS ARE 100'
3. ALL PAVEMENT WIDTHS ARE 28' BACK OF CURB TO BACK OF CURB UNLESS OTHERWISE NOTED.
4. ALL INTERSECTING CURB RADII ARE 20'.

NO.	REVISION	BY	DATE

DESIGNED BY: *S. Anderson*
 DRAWN BY: *S. Anderson*
 CHECKED BY: *S. Anderson*
 SCALE: 1" = 100'
 DATE: NOVEMBER 1984



ESPEY, HUSTON & ASSOCIATES, INC.
 Engineering & Environmental Consultants
 333 W. Campbell Rd. Richardson, Texas 75080
 (214) 669-9600

PRELIMINARY
 PAVING AND DRAINAGE PLAN
BELLBROOK ESTATES
 ADDISON, TEXAS
 FOR
 THE SHARIF-MUNIR-DAVIDSON DEVELOPMENT CORP

SHEET NO. **1**
 OF **2** SHEETS
 JOB NO. **5676**