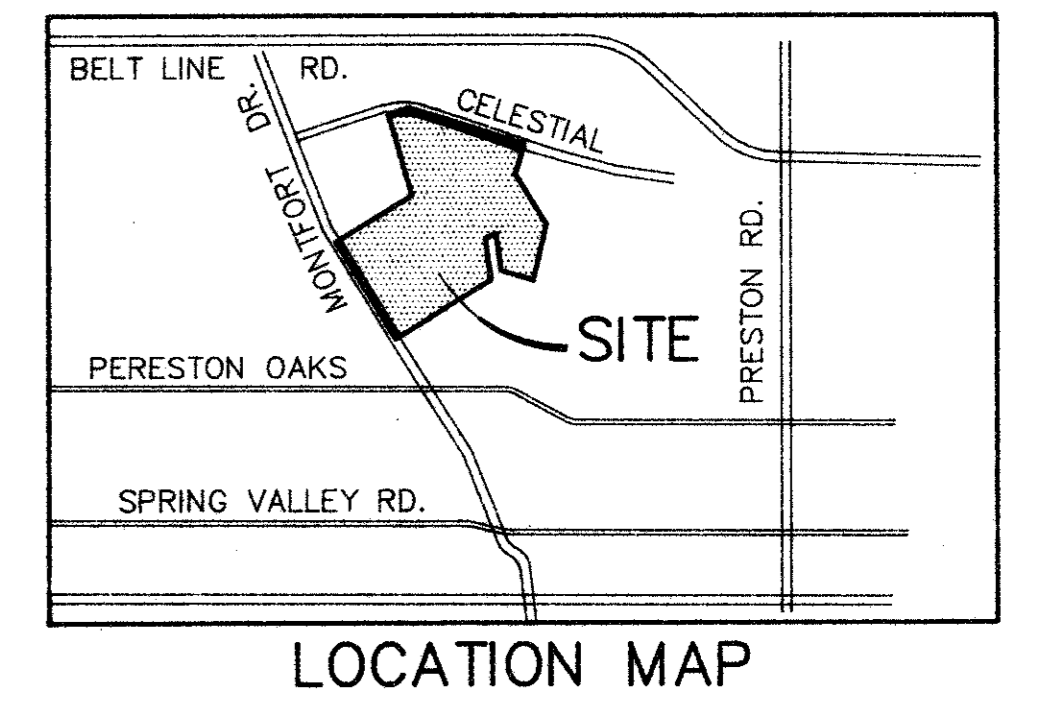
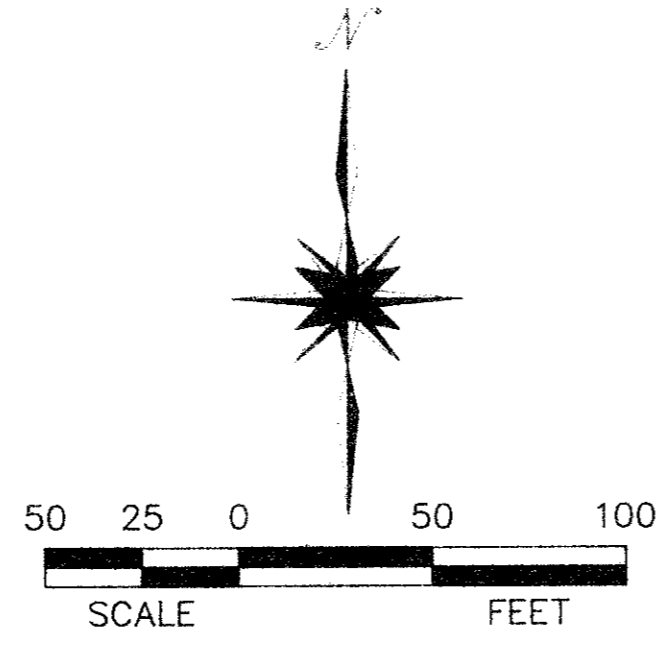


**ON SITE DRAINAGE DATA**

Area No	Acres	Q <sub>100</sub> , CFS
1	1.4	8.8
2	1.5	9.5
3	1.6	10.1
4	0.9	5.7
5	1.6	10.1

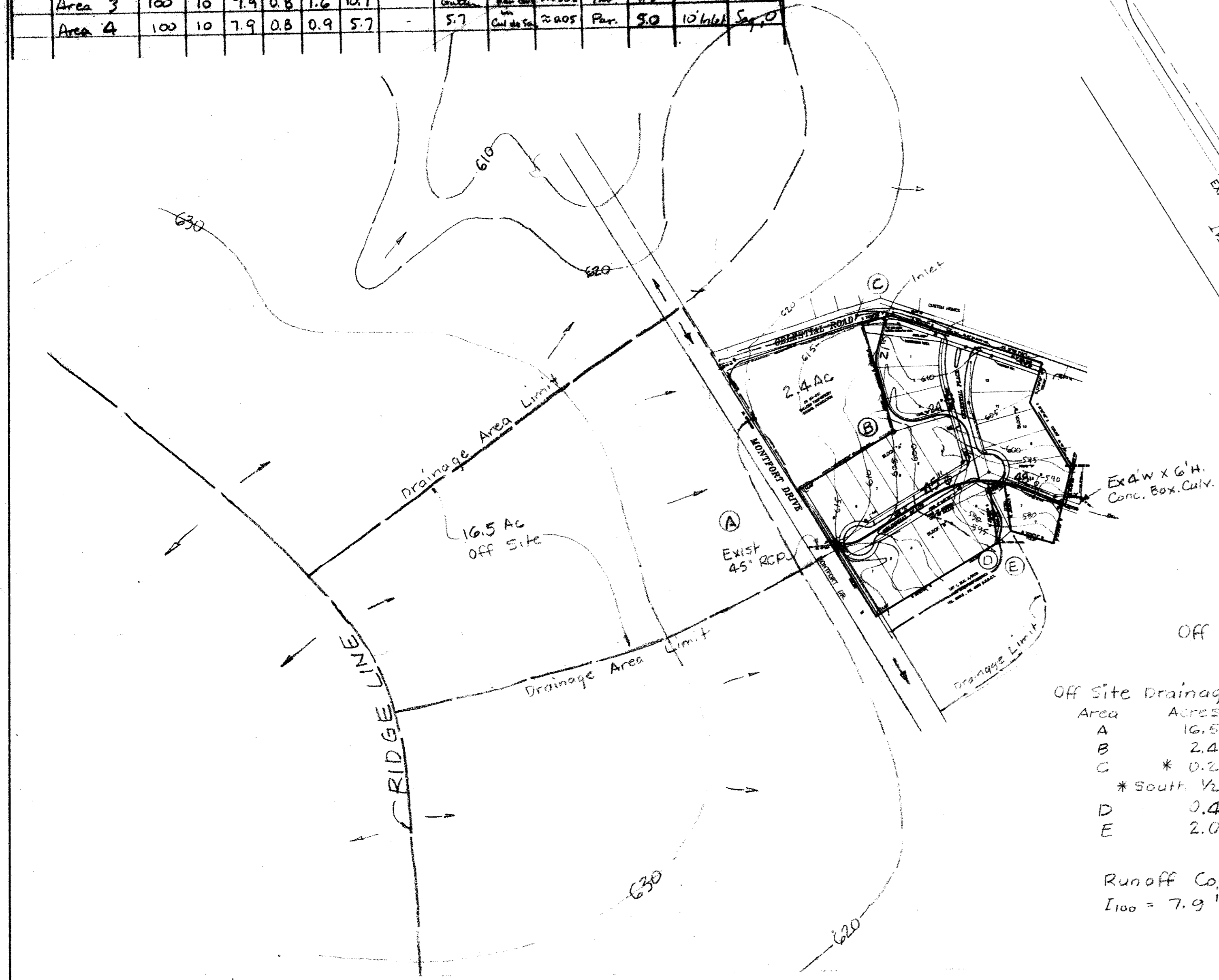
C = 0.8    t<sub>c</sub> = 10 min  
I<sub>100</sub> = 7.9 in/hr.



**Town of Addison, Texas  
Celestial Place Addition**

**STREET CAPACITY & INLET DESIGN CALCULATIONS**  
BY DTE  
DATE 3-11-94

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/ft)	Crown Type	SELECTED INLET		Carry-Over To Downstream Inlet (c.f.s.)
			Time of Conc. (min)	Intensity (in/hr)	Runoff Coeff.	Area (Ac)	"Q" (c.f.s.)						Length (ft)	Type	
1	Area 1&2	100	10	7.9	0.8	2.9	10.3	—	17.0	17.0	0.0481	Par	9.0	10' Inlet	5.0
2	Area 3	100	10	7.9	0.8	1.6	10.1	—	15.0	15.0	0.0382	Par	9.5	10' Inlet	0.0
3	Area 4	100	10	7.9	0.8	0.9	5.7	—	5.7	5.7	0.0205	Par	8.0	10' Inlet	0.0



**Off Site Drainage**

Area	Acres	Q <sub>100</sub>
A	16.5	117.0 cfs
B	2.4	17.1 cfs
C	* 0.25	1.8 cfs
* South 1/2 of Celestial		
D	0.4	3.0 cfs
E	2.0	14.5 cfs

Runoff Coeff. = 0.9, t<sub>c</sub> = 10 min.  
I<sub>100</sub> = 7.9 in/hr.

**OFF SITE DRAINAGE AREAS**  
SCALE 1" = 200'

**DRAINAGE AREA MAP, ON-SITE & OFF-SITE**  
**CELESTIAL PLACE**  
ADDISON/DALLAS, TEXAS

FOR: **ALLEGIANCE GROUP, INC.**  
8080 N. CENTRAL EXPY., SUITE 880, DALLAS, TEXAS 75206

BY: **DAL-TECH ENGINEERING INC.**  
11020 AUDELIA RD., SUITE C207, DALLAS, TEXAS 75342  
PH. (214)553-5500

