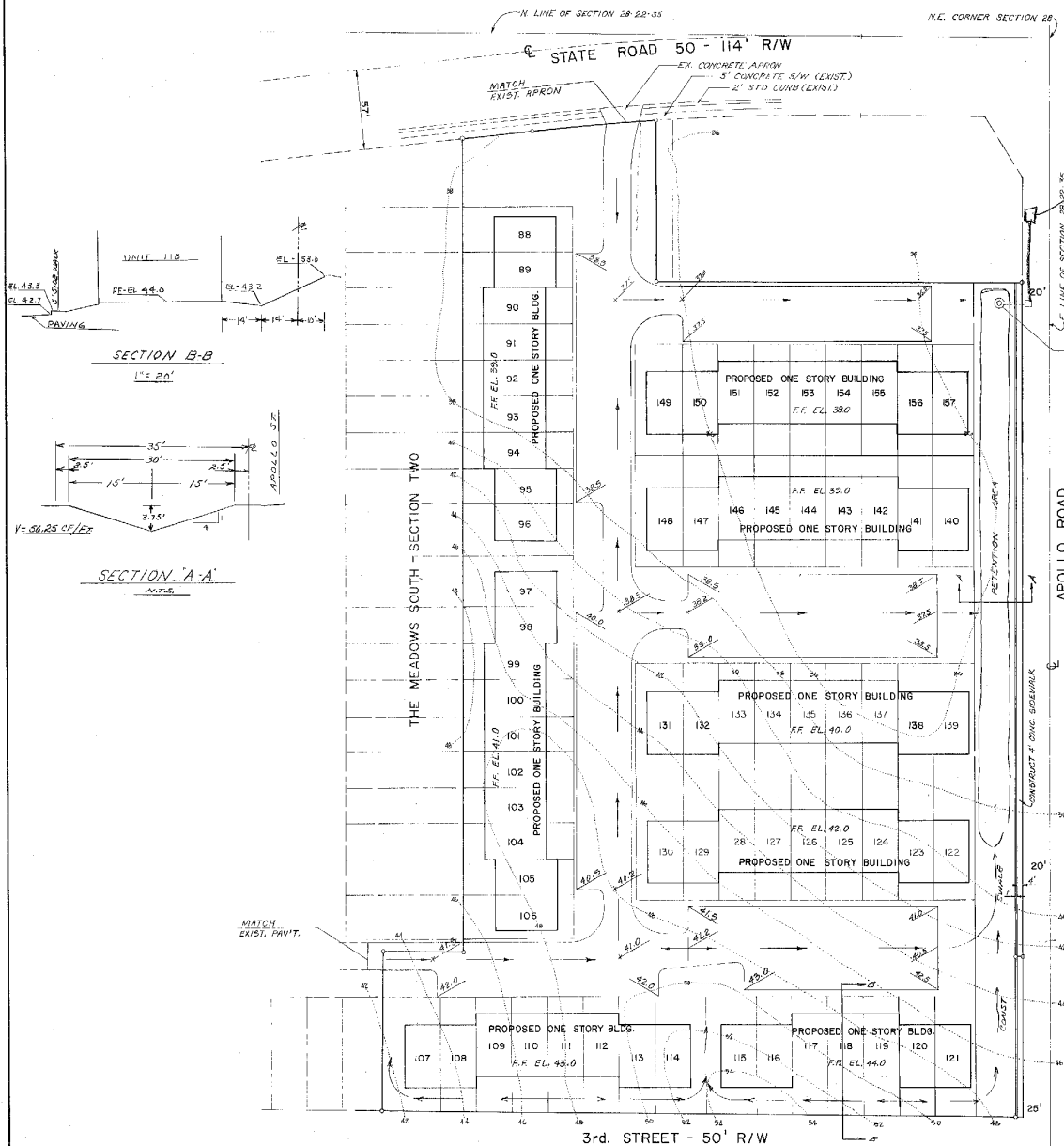




THE MEADOWS SOUTH - SECTION THREE DRAINAGE CALCULATIONS

I. EXISTING CONDITIONS:

25 Year Storm

A = 6.12 Ac.

C = 0.20

i = 6"

Q = ACI = 6.12 X 0.2 X 6 = 7.3 CFS Runoff

II. PROPOSED CONDITIONS:

Buildings

81,900 Sq. Ft.

Parking, Driveways & Sidewalks

59,400 Sq. Ft.

Total Impervious Area

141,300 Sq. Ft.

Total Pervious Area

3.36 Ac.

Total Pervious Area

2.76 Ac.

C for Pervious Area

= 0.95

C for Impervious Area

= 0.20

CA Impervious

= 3.36 X 0.95 = 3.19

CA Pervious

= 2.76 X 0.20 = 0.55

CA Average

3.74

MIN.	SEC.	CA	Q _{POST}	Q _{PRF}	DIFFERENCE	VOLUME
10	600	3.74	6.3	31.04	7.3	18,215 C.F.
20	1200	3.74	6.7	25.96	7.3	21,310 C.F.
30	1800	3.74	5.3	19.87	7.3	22,540 C.F.
40	2400	3.74	4.3	16.08	7.3	21,077 C.F.
50	3000	3.74	3.75	12.90	7.3	16,809 C.F.
60	3600	3.74	3.25	12.15	7.3	17,478 C.F.

* Retention Area Must Retain 22,540 Cu. Ft.

III. RETENTION PROVIDED:

Swale:

30" Wide

Bottom Width - 0"

Side Slope - 4:1

Volume per Foot = 56.25 Cu. Ft./ Ft.

Length 410'

Volume Provided = 410 X 56.25 = 23,063 Cu. Ft.

APPROVED BY: R. H. Wilson, P.E. #9710 DATE: _____

THE MEADOWS SOUTH SECTION THREE A TOWNHOUSE DEVELOPMENT

GRADING AND DRAINAGE PLAN



DATE	DESCRIPTION
6-8-83	DELETE 4 UNITS PADD UNITS 149-157
DATE	REVISIONS

LOYS WARD AND COMPANY
2801 GARDEN ST. TITUSVILLE, FLORIDA (305) 267-7241
Date: 4-29-83
Drawn By: B.L.W. Approved By: _____
SHEET 3 of 5