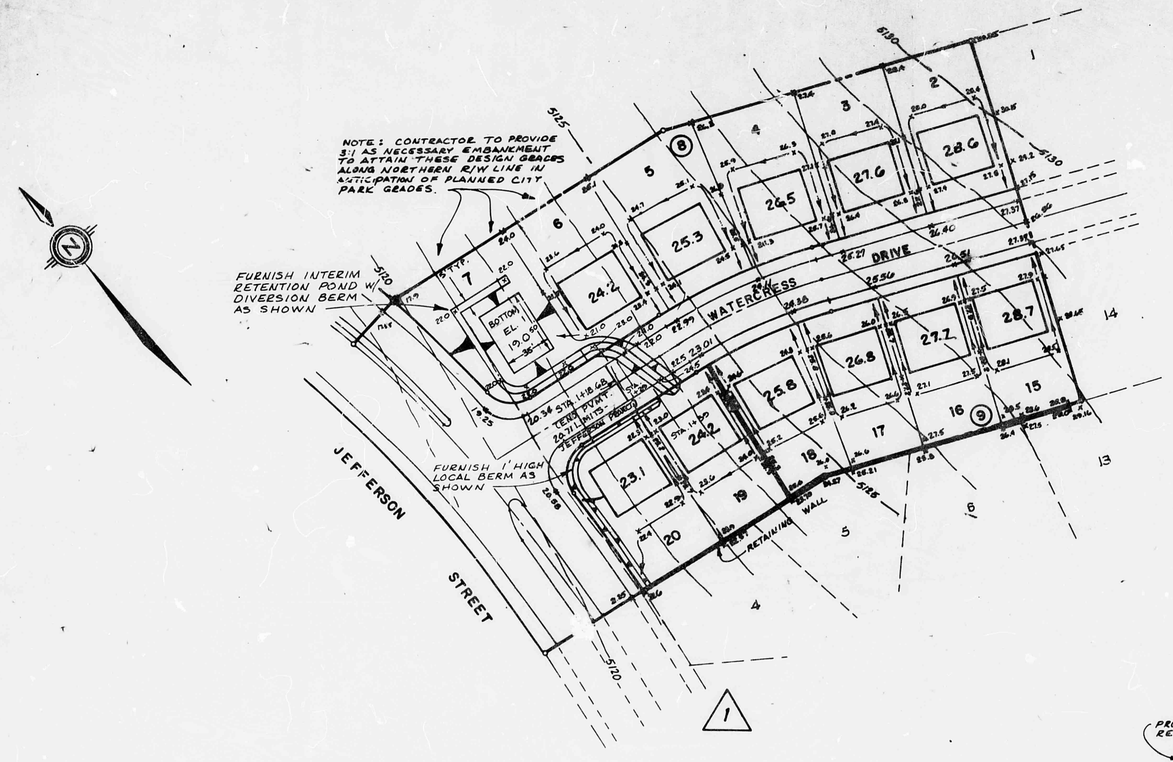
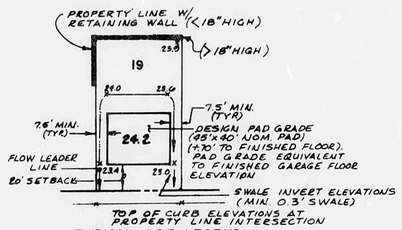
HYDROLOGY

C17/D2B
TWO PLANS

C17/D2B

2 PLANS





TYPICAL LOT LEGEND

APPROVED FOR ROUGH GRADING - ± 1'

Hydrology	ENGINEER	11/9/85 DATE

SCALE: 1" = 50'

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: WILDFLOWER II BLOCKS 8-9
INTERIM DRAINAGE PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer		11/9/85	Liquid Waste		
A.C.E.-Design		11/9/85	Traffic		
A.C.E.-Hydrology		11/9/85	Water		

DRAWING NO.	MAP NO.	SHEET	OF
2595	C-17	3A	6

C17/D2B

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

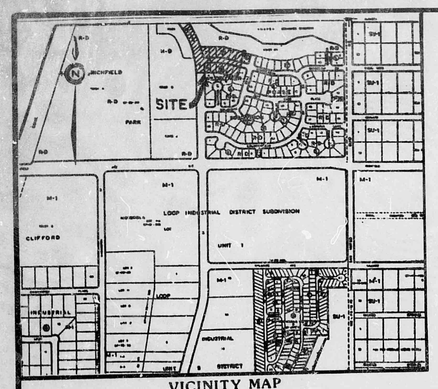
BENCH MARKS
AS BUILT

ENGINEER'S SEAL
9/15/85

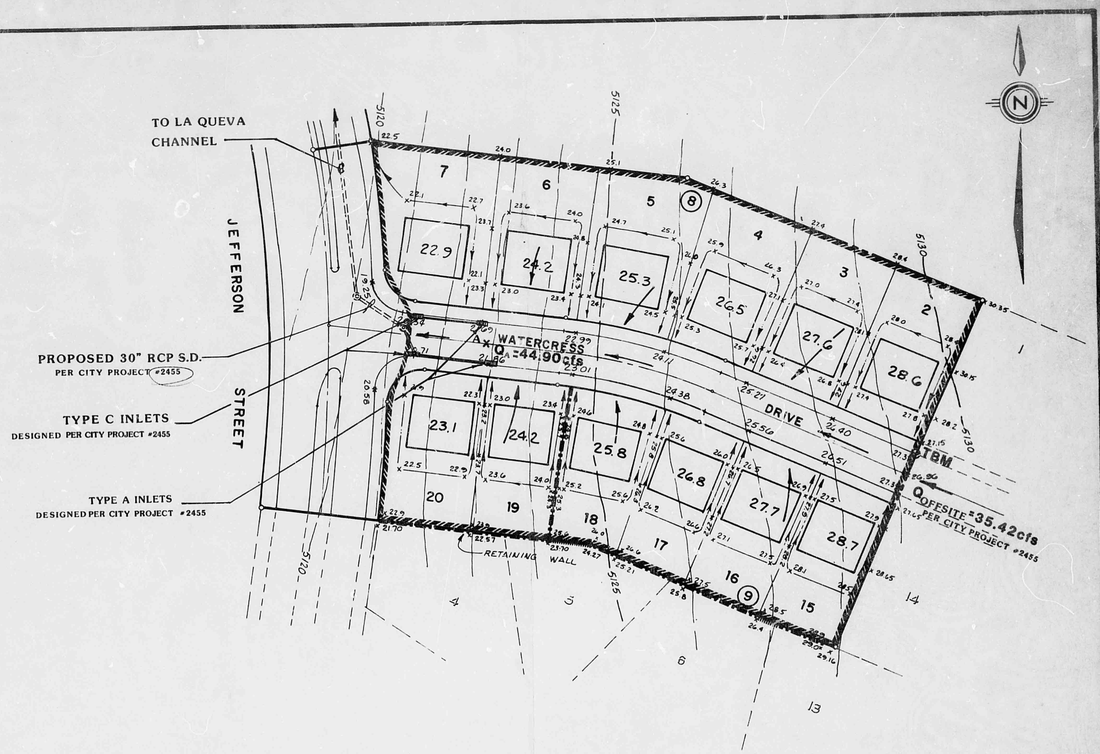
NO.	DATE	REMARKS	BY
1	11/7	ADDITION OF SHEET SPECIFYING INTERIM DRAINAGE RETENTION POND.	

REVISIONS

DESIGNED BY A.S. DATE 7-25-85
DRAWN BY D.W. DATE 7-25-85
CHECKED BY



VICINITY MAP



ON-SITE DRAINAGE

SCALE: 1":50'

HYDRAULICS CALCULATIONS

1) Offsite Flow

$$Q = CIA$$

Where $I = \frac{189}{Tc+25}$

Tc = 10 min.

Area = 9.79 acre

Q = .67(5.40) (9.79)

Q = 35.42 CFS

2) Total Flow @ point A

$$Q = CIA$$

Where $I = \frac{189}{Tc + 25}$

Tc = 10 minutes

Area = 12.41 acre

Q_A = .67 (5.40) (12.41)

Q_A = 44.90 CFS

3) Street Flow Characteristics at point A

Q = 44.90

n = .017

Slope = .016

Width = 32 '

Crown = .32

From Manning eqn

$$Q = \frac{A\ 1.49\ R^{2/3}\ S^{1/2}}{n}$$

Solving For depth D = 0.45'
V = 4.81 ft/s
F = 1.57

V.D. < 6.5
(4.81) (.45) <6.5
2.16 < 6.5 OK

LEGEND

- FLOW DIRECTION
- RETAINING WALL
- 28.4 SPOT ELEVATION
- PROPERTY LINE
- DRAINAGE BOUNDARY

ADDENDUM TO DRAINAGE PLAN FOR

WILDFLOWER SUBDIVISION, PHASE II

(BLOCKS 8 & 9 ONLY)

Kent M. Whitman

9/23/85

RECEIVED
SEP 23 1985
HYDROLOGY SECTION

C17 /D2B

DATE	9-19-85
SCALE	1" = 50'
DESIGNED	A.S.
DRAWN	R.D.Q.
JOB NO	73-07-136