HYDROLOGY K19/D48 2 PLANS

K19/D48

2 Plans

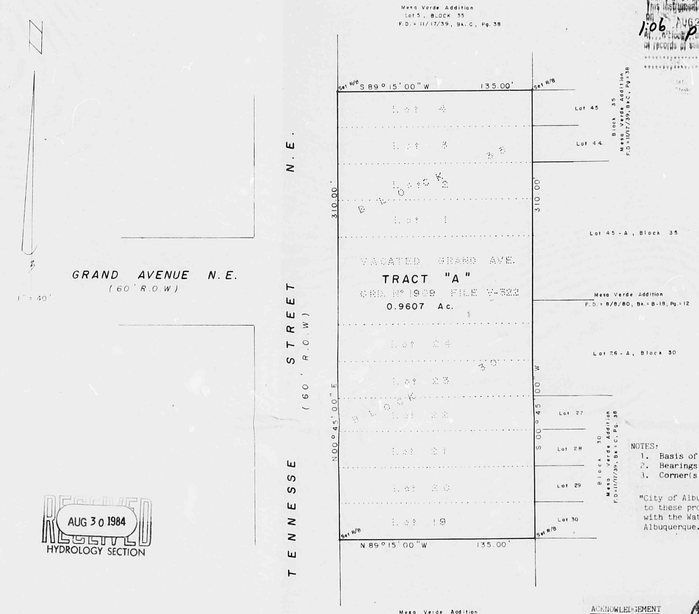
D 24 C 20 B 16 A 12 CITY OF ALBUQUERQUE C D

K-19-D48

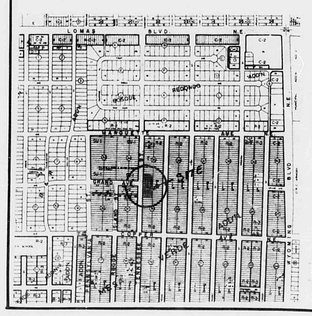
84 66430

State of New Mexico
County of Bernalillo
This instrument was filed for record
AUG 29 1984
at 1:06 P.M. and duly recorded in
Book Page
of the records of Bernalillo County
Witness my hand and seal of office
Ida Rodriguez
County Clerk, Bernalillo County, N.M.

REPLAT OF
LOTS 1 thru. 4, BLOCK 35, LOTS 19 thru. 24, BLOCK 30, And the VACATED PORTION of GRAND AVENUE Of MESA VERDE ADDITION
ALBUQUERQUE, NEW MEXICO
AUGUST, 1984
Now Being TRACT "A" of MESA VERDE ADDITION



RECEIVED
AUG 30 1984
HYDROLOGY SECTION



K-19-Z

LEGAL DESCRIPTION

Lots numbered Nineteen (19) thru Twenty-four (24), both inclusive, in Block numbered Thirty (30), Lots numbered One (1) thru Four (4), both inclusive, in Block numbered Thirty-five (35) together with that part of heretofore vacated Grand Ave., N.E., lying North of and adjoining said Lot 24 in Block 30 and South of and adjoining said Lot 1 in Block 35 all in MESA VERDE ADDITION to the City of Albuquerque, New Mexico, as the same is shown and designated on the plat of said Addition filed in the office of the County Clerk of Bernalillo County, New Mexico on November 17, 1939.

NOTES:
1. Basis of bearing = Mesa Verde Addition
2. Bearings and distances on boundary are record and field
3. Corner(s) set are 1/2" rebar w/cap stamped "L.S. 6446".

"City of Albuquerque Water and Sanitary Sewer Service to these properties must be verified and coordinated with the Water Resource Department of the City of Albuquerque."

FREE CONSENT

The above plat is with the free consent of the undersigned owner(s). The undersigned have represented themselves to have title and acknowledge that this plat is within the covenants and restrictions on this property.

John M. Macklin
JOHN M. MACKLIN

ACKNOWLEDGEMENT

STATE OF NEW MEXICO)
) ss.
COUNTY OF BERNALILLO)

The foregoing instrument was acknowledged before me this 15th day of August, 1984.
BY: FRANKLIN E. WILSON

My Commission Expires: 8-8-87

Notary Public

OFFICIAL SEAL
DANIEL M. GRANEY
NOTARY PUBLIC STATE OF NEW MEXICO
Notary Bond Filed with Secretary of State
My Commission Expires

ACKNOWLEDGEMENT

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DANIEL M. GRANEY
NOTARY PUBLIC STATE OF NEW MEXICO
Notary Bond Filed with Secretary of State
My Commission Expires

SURVEYOR'S CERTIFICATE

I, Franklin E. Wilson licensed under the laws of the State of New Mexico, do hereby certify that this plat was prepared by me or under my direction from notes of an actual field survey, shows all monuments of record and meets the requirements for monumentation and surveys of the Albuquerque Subdivision Ordinance, and is true and correct to the best of my knowledge and belief.

Franklin E. Wilson 15 Aug. 84
Franklin E. Wilson, N.M. L.S. 6446 Date

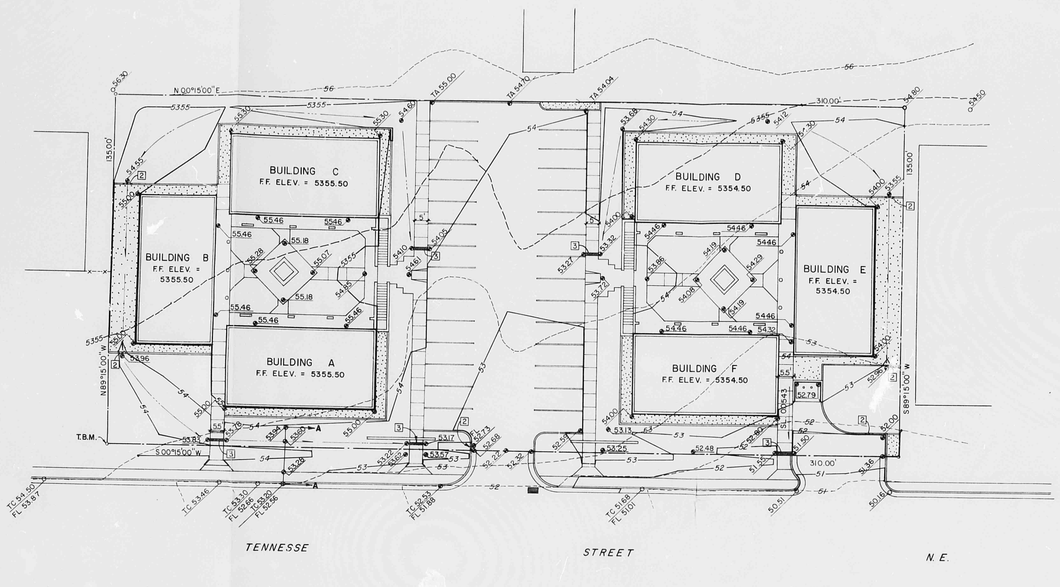
SOUTHWEST SURVEYING CO., 933 Lomas N.E., Albuquerque, N.M. 87102
(505) 247-4444

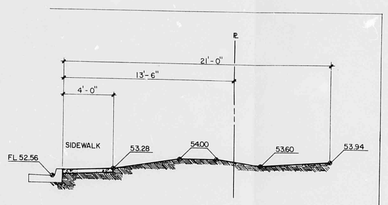
CITY/COUNTY APPROVALS:

		Date
Property Management	for Val Vaca	2-27-84
City Surveyor	for Chris Chavez	08 2434
City Water Resources	N/A	Date
City Engineer	N/A	Date
A.M.A.F.C.A.	N/A	Date
Traffic Engineer	N/A	Date
Parks and Recreation	Charles Salmister	Date
City Planning Director	S.P. No.	Date 27 August 1984

SP. 84-358

D 24 | C 20 | B 16 | A 12 | CITY OF ALBUQUERQUE | C | D

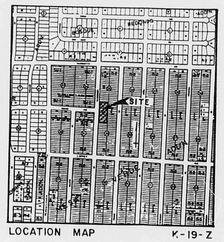




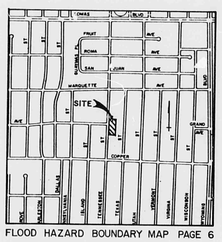
SECTION A - A

1/4" = 1'-0"

GRAND AVE N.E.



LOCATION MAP K-19-Z



FLOOD HAZARD BOUNDARY MAP PAGE 6

DRAINAGE PLAN

1" = 20'-0"

N

KEYED NOTES

1. Topographic information shown on this plan is based on a survey prepared by Southwest Surveying Co., June 14, 1984.
2. Provide 3-6" wide curb cuts at 18" o.c.
3. Construct concrete walk drain - see 4/C-1.

BENCH MARK:

City of Albuquerque Bench Mark "10-K19", a square " □ " chiseled in top of concrete curb at the ESE return of the intersection of Pennsylvania St. N.E. and Copper Ave. N.E. Elevation = 5347.499 feet.

TEMPORARY BENCH MARK:
Northwest Property Corner.
Elev. = 5354.28.

LEGEND	EXISTING	NEW
SPOT ELEV	o	•
CONTOUR	~~~~	~~~~

DRAINAGE PLAN

CASA de VECINOS APARTMENTS — JULY 24, 1984

The study site is located east of the intersection of Grand Avenue and Tennessee Street, N.E. containing approximately 0.96 acres. The site is presently undeveloped and slopes from east to west with an average slope of 2.2%. Proposed development of the site includes four two-story buildings and two one-story buildings with associated parking areas and landscaping.

Flows from the site discharge directly to Grand Avenue and are transported west by Chama Street. Grand Avenue, west of Espanola Street, is presently designated as a 100-year frequency flood hazard area. Since the publication of the Albuquerque Master Drainage Study, construction of the fairgrounds storm release system has reduced the flood hazard area. A 54" storm sewer in Chama Street from Marquette Avenue to Grand Avenue and a 60" storm sewer in Chama Street from Grand Avenue to Copper Avenue has been constructed to transport flood flows to the fairgrounds storm relief ponding system. The total drainage basin area contributes to Grand Avenue as a peak discharge flow rate of 86.5 cfs from approximately 39.6 acres. The existing street capacity is 108 cfs. With the completion of the fairgrounds storm relief system, existing street capacity exceeds the peak discharge flow from the water shed by 21 cfs. Due to the new storm drain system, and the existing street capacity, ponding will not be provided on the site.

Off-site flows have minimal impact on the proposed development. Immediately east of the site, the existing development contains approximately 0.96 acres with a contributing flow area of approximately 48 acres. Peak discharge from the upstream area is 1.5 cfs. On-site grading will direct off-site flows to the proposed parking area for transportation to Grand Avenue. All on-site flows will be diverted around proposed structures and be transported as surface flows and discharged to the parking lot through Grand Avenue. Other adjacent areas north, west and south of the site are prevented from contributing flows to the site by existing grades.

If constructed as proposed, the new development will not be susceptible to flooding nor increase the threat of flooding in downstream areas in the event of a 100-year storm.

DOWNSTREAM REQUIREMENTS:

Watershed area = 39.6 acres, Soil Type Hydrologic group B
L = 2170 ft., S = 0.0138 ft/ft

$$Tc = \frac{.0078\,(2170)^{.77}}{(0.0138)^{.385}} = 15.04 \text{ min}$$

I = 1.55 in/hr. Plate 22.2D-2
i = 2.35 (1.55) = 3.64 in/hr
Use C = 0.6 (Albuquerque Master Drainage Plan)
Q = 0.6 (3.64) (39.6) = 86.49 cfs

DOWNSTREAM STREET CAPACITY:

Assume 32' Street, Slope 0.015, P = 0.60 ft
Q = 54 (2) = 108 cfs 86.49 cfs Plate 22.3 D-1

EXISTING ON-SITE CONDITIONS:

Area = 0.96 ac.
Slope = 3/135 = 0.022 ft/ft
Soil Type Etc. - Hydrologic soil group = B

$$Tc = \frac{.0078\,(135)^{.77}}{(0.0222)^{.385}} = 1.40 \text{ min} = \text{Use 10 min.}$$

Total Rainfall = 2.35 in. Plate 22.2 D-1
I = 2.2 (tc = 10 min) Plate 22.2 D-2
i = 2.2 (2.35) = 5.17 in/hr
C = 0.34
Q100 = .34 (5.17) (.96) = 1.69 cfs
Q10 = 1.69 (.657) = 1.11 cfs
CN = 85 Plate 22.2 C-2
Direct Runoff = 1.1 in Plate 22.2 C-4

$$V100 = \frac{1.1}{12}(.96)(43560) = 3833 \text{ cu. ft.}$$

V10 = 3833 (.657) = 2518 cu. ft.

PROPOSED ON-SITE CONDITIONS:

$$\text{Percent Impervious} = \frac{41650 - 14895}{41650} = 0.66$$

i = 5.17 in/hr
C = 0.66 Plate 22.2 C-1
Q100 = .66 (5.17) (.96) = 3.26 cfs
Q10 = 3.26 (.657) = 2.15 cfs
CN = 94 Plate 22.2 C-3
Direct Runoff = 1.7 in Plate 22.2 C-4

$$V100 = \frac{1.7}{12}(.96)(43560) = 5924 \text{ cu. ft.}$$

V10 = 5924 (.657) = 3892 cfs

APPROVED FOR DRAINAGE
7/26/84
DATE
Billy J. Goodwin
TITLE
ADVISE DRAINAGE INSPECTOR WHEN GRADING EXECUTED

LEGAL DESCRIPTION:

LOTS NUMBERED NINETEEN (19) THRU TWENTY-FOUR (24), BOTH INCLUSIVE, IN BLOCK NUMBERED THIRTY (30), LOTS NUMBERED ONE (1) THRU FOUR (4), BOTH INCLUSIVE, IN BLOCK NUMBERED THIRTY-FIVE (35) TOGETHER WITH THAT PART OF HERETOFORE VACATED GRAND AVE., N.E., LYING NORTH OF AND ADJOINING SAID LOT 24 IN BLOCK 30 AND SOUTH OF AND ADJOINING SAID LOT 1 IN BLOCK 35 ALL IN "MESA VERDE ADDITION" TO THE CITY OF ALBUQUERQUE, NEW MEXICO, AS THE SAME IS SHOWN AND DESIGNATED ON THE PLAT OF SAID ADDITION FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO ON NOVEMBER 17, 1939.

WESTWORK ARCHITECTS P.A.
SUITE S-2 2403 SAN MATEO BLVD., N.E. ALBUQUERQUE, NM 87110

Casas de Vecinos Apartments

DRAINAGE PLAN
C-2
JULY 24, 1984

CITY OF ALBUQUERQUE
THIS MICROIMAGE IS THE BEST POSSIBLE REPRODUCTION DUE TO THE POOR QUALITY OF THE ORIGINAL DOCUMENT

AUG 2 8 1984
HYDROLOGY SECTION

D 24 C 20 B 16 A 12 CITY OF ALBUQUERQUE C D