HYDROLOGY

G18/D16

ONE PLAN

I PLAN FOR

OFFICE BIDG. AT.

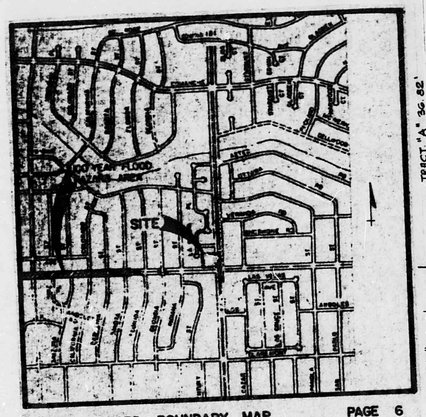
CANDELARIA + LOUISIANA

G 18- D 16

DRAINAGE & LANDSCAPING PLAN

SCALE: 1/8" = 1'-0"

NORTH



FLOOD HAZARD BOUNDARY MAP PAGE 6

LEGAL DESCRIPTION

A tract of land situated in the City of Albuquerque, New Mexico, being and comprising the southeast portion of Lot numbered 14, in Block numbered 1 of ALTAMONT, and addition to the City of Albuquerque, New Mexico, and the same is shown and designated on the plat of Block 1 to 12, inclusive and Block 26 of said addition filed in the office of the County Clerk of Bernalillo County, New Mexico on 13 April, 1955.

RE-PLAT, COMPRISING TRACTS 'B' THRU 'E' AND ADJACENT COMMON AREAS
MARCH 1983 SP-83-15-964 ZONE ATLAS G-18-Z

The proposed development is located on the northwest corner or the intersection of Candelaria and Louisiana in an area classified as "Tijeras gravelly fine sandy loam - TgB," on the SCS Bernalillo County Soil Survey Maps. The site is not located in a Flood Hazard Area as indicated on page 6 of 9 of the Flood Hazard Boundary Map for the City of Albuquerque, prepared for the Federal Insurance Administration.

Off-site flows are prevented from entering the site by the existing elevations along Louisiana and Candelaria. As shown, flows along Louisiana are transported to the north. Flows on Candelaria are transported to the west. The Master Drainage Plan for the City of Albuquerque does not indicate any surface flows on either street in the event of a 100-year storm.

Fully developed flows from the site presently drain to both fronting streets with no on-site ponding. Flows are prevented from entering adjacent properties by existing C.M.U. walls.

The proposed development will subdivide the property into six "lots" with one two-story office condominium on each of the lots. Runoff from the east parking lot will be temporarily ponded in a shallow pond along the southeast edge of the lot. It will be routed through the landscaped area and then to the street. This will provide for some peak shaving and eliminate nuisance flows from the site.

If developed as stated, the site will not be susceptible to flooding, nor increase the threat of flooding to downstream areas.

CALCULATIONS

Area = 0.5134 Ac.

Existing Cond.

$t_c < 10$ min.
$i = 189/25+10 = 5.4$ In/hr
$C = 0.95$
$Q_{100} = 0.95\ (5.4)\ (0.51) = 2.62$ cfs.
$V_{100} = 2.3\ (.95)(1/12)(.51)(43560) = 4045$ ft.^{3}

Developed Cond.
Determine Coefficient of Runoff
0.04 (.4) = .016
0.47 (.95) = .447
.463

$C = .463/.513 = 0.90$
$Q_{100} = 0.9(5.4)(0.51) = 2.48$ cfs.
$V_{100} = 4045(.9/.95) = 3832$ ft.^{3}

$\Delta Q_{100} = 0.14$ cfs.
$\Delta V_{100} = 213$ ft.^{3}

∴ Ponding Vol. not required.

LANDSCAPE AREA = 1607 SF = 7.14 %
SITE AREA = 160' x 150' = 22,500 SF.

PARKING SPACES = 46 (2 = HC)
UPPER AREA = 7708./300 = 26
LOWER AREA = 1912./200 = 10 } 36 REQ'D

(6.05) EXIST. SPOT ELEVATIONS
6.05 NEW SPOT ELEVATIONS
NEW CONTOURS
EXIST. CONTOURS

CANDELARIA ROAD

LOUISIANA BLVD.

RECEIVED JUL 26 1984 HYDROLOGY SECTION

FIN. FLOOR ELEV. 5898.25

SHEET	C-2
	2 OF 12
	5/84

OFFICE BUILDING | NW CORNER LOUISIANA BLVD. & CANDELARIA RD. | ALBUQUERQUE NEW MEXICO | JOHN REED ARCHITECT | DRAINAGE & LANDSCAPING PLAN

STATE OF NEW MEXICO JOHN REED NO. 181 REGISTERED ARCHITECT

STATE OF NEW MEXICO VICTOR J. CHAVEZ REGISTERED PROFESSIONAL ENGINEER 7/23/84

File G18-D16

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