HYDROLOGY C17/D1D OFFICE/WAREHOUSE COMPLEX

C17 / DID

OFFICE / WAREHOUSE

COMPLEX

1 PLAN

DRAINAGE PLAN

W. H. CLIFFORD INDUSTRIAL PARK-TRACT E, SPRINGER LANDS

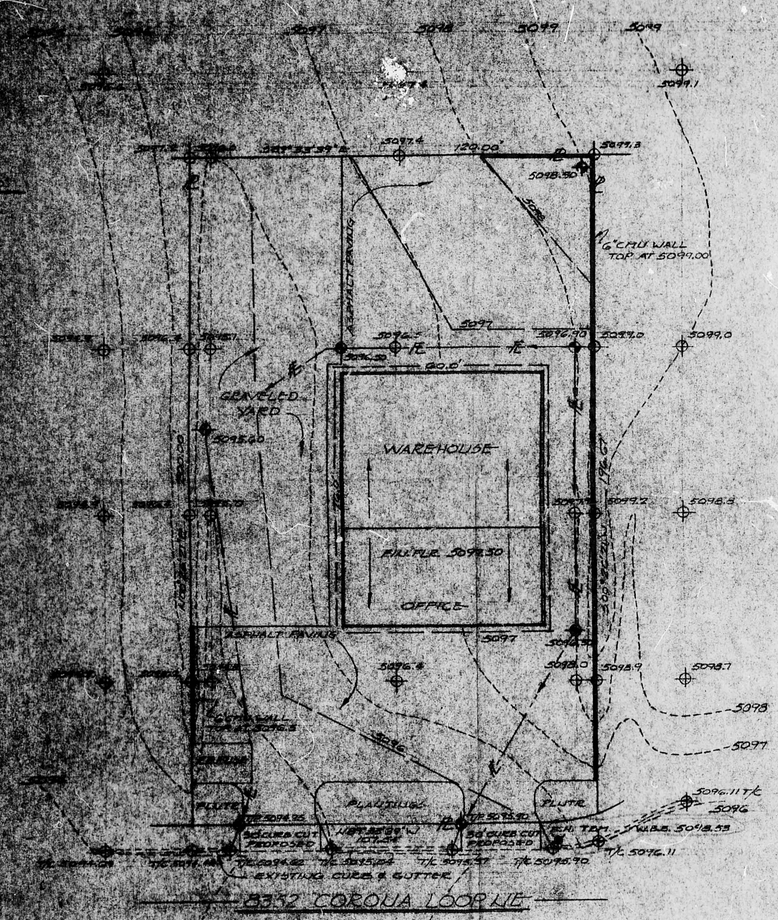
ALBUQUERQUE, NEW MEXICO

ZONE MAP C-17 BENCHMARK 8-C17 ELEV. 5111.03 FLOOD PANEL 9

ZONED M-1 TOTAL AREA: 24,979 S.F. = 0.551 ACRES

TOTAL AREA ROOFED OR PAVED: 17700 S.F. = 71%

REFERENCE FILE: CIT-DTA PLANS & REPORT BY BOHANNAN-HUSTON



LEGEND

PROPERTY LINE

EXISTING CONTOUR

PROPOSED CONTOUR

EXISTING CURB

FLOW DIRECTION

EXISTING SPOT ELEVATION

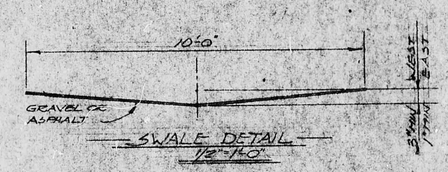
PROPOSED SPOT ELEVATION

HYDROLOGY:

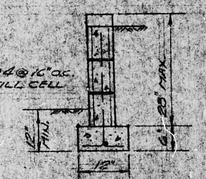
PER REFERENCED REPORT, AND EXISTING PRELIMINARY GRADING, NO OFFSITE FLOW IS INVOLVED. not except
PONDING ON INDIVIDUAL LOTS IS NOT REQUIRED; UNRESTRICTED FLOW IS ALLOWED THROUGH CURB CUTS.
A RUN-OFF "C" FACTOR OF 0.70 IS ACCEPTABLE AND RESULTS IN A PEAK "Q" = 2.3 × 2.8 × 0.70 × 0.88 = 1.95 CFS.
25% OF THE FLOW (0.50 CFS) EXITS BY THE EAST CURB CUT, 75% (1.3 CFS) EXITS BY THE WEST CURB CUT

SWALE HYDRAULICS: EAST SWALE WITH 10' WIDTH, ALL PAVED, SLOPE = 0.50% – TRY 0.2' DEPTH AT ℄
A = 1.0, P = 10, R = 0.10, n = 0.015, S = 0.005 & Q = 1.0 (1.49/0.015) 0.215 × 0.071 = 1.51 CFS ∴ 1" DEPTH IS ADEQUATE.
WEST SWALE IS IN GRAVEL, "n" = 0.025, OTHER CONDITIONS IDENTICAL, & Q = 0.91 CFS. A 3" DEPTH IS ADEQUATE IN GRAVEL AREA.

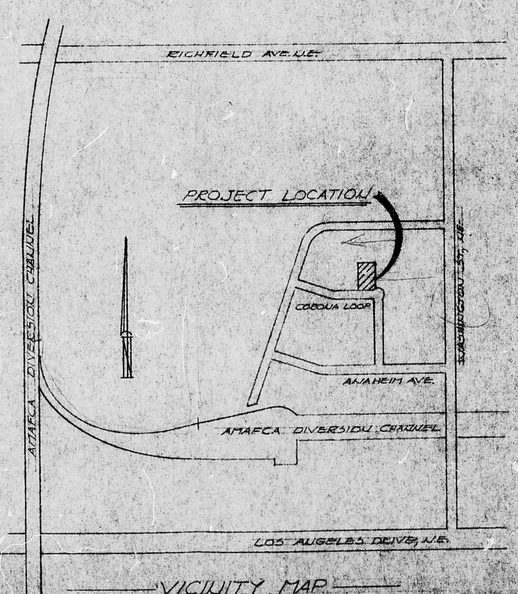
CURB CUT HYDRAULICS: WIDTH = 24', AVERAGE DEPTH = 0.20', A = 4.8, P = 24, R = 0.20, S = 0.50%
Q = 4.8 (1.49/0.016) × 0.342 × 0.071 = 11.6 CFS CAPACITY



SWALE DETAIL
1/2" = 1'-0"



WALL DETAIL
3/4" = 1'-0"



VICINITY MAP
1" = 500'

RECEIVED
JUL 26 1984
HYDROLOGY SECTION