Hydrology C17/DIQ CRAIG CORPORATION

C17 / D12

CRAIG CORPORATION

1 PLAN

DRAINAGE PLAN

LOT 44 - CLIFFORD INDUSTRIAL PARK
ALBUQUERQUE, NEW MEXICO

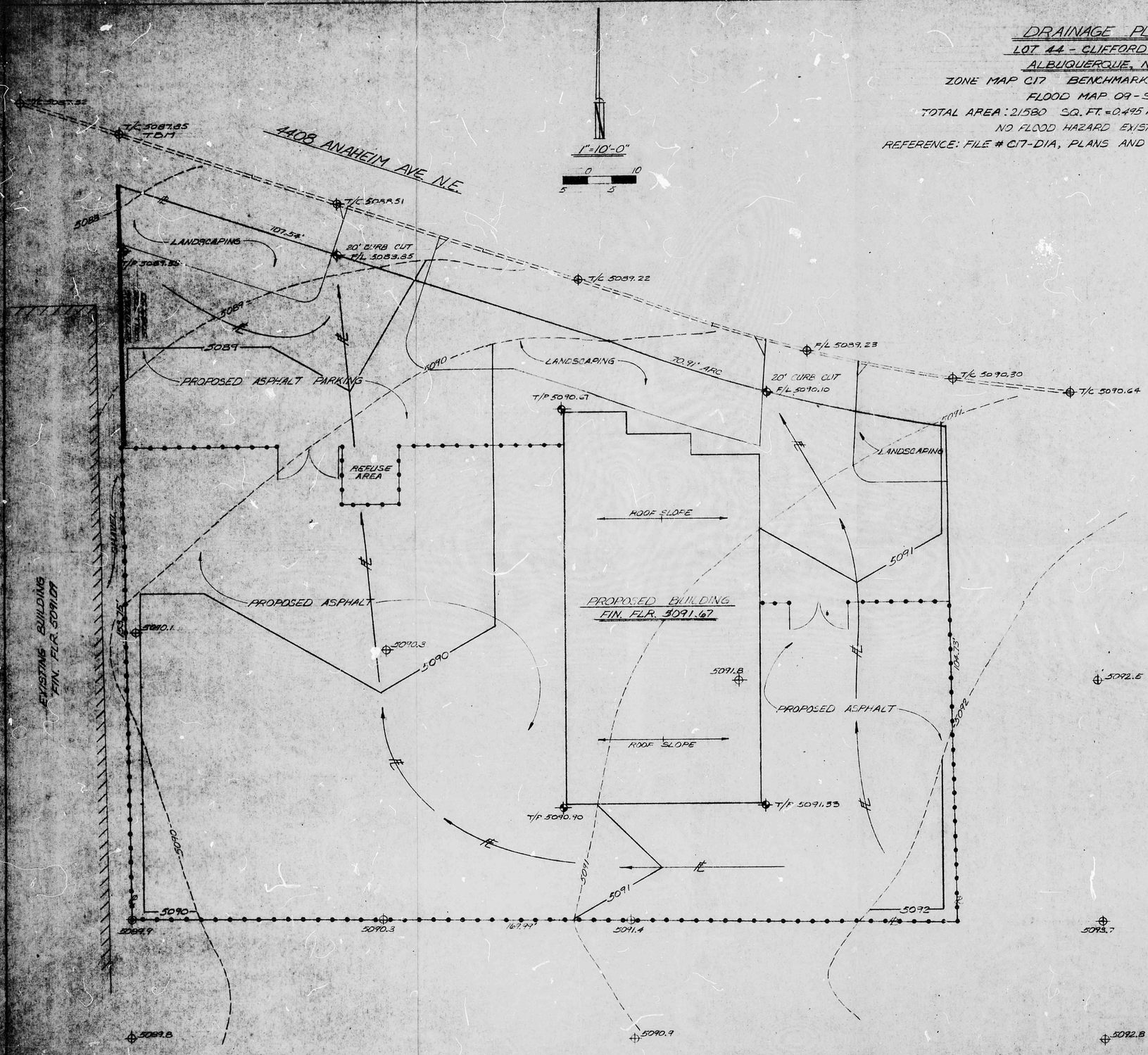
ZONE MAP C17 BENCHMARK B-C17 ELEV. 5111.03

FLOOD MAP 09 - SOIL TYPE "B"

TOTAL AREA: 21580 SQ. FT. = 0.495 ACRES - AREA ROOFED OR PAVED: 19900 SQ. FT. = 92%

NO FLOOD HAZARD EXISTS DOWNSTREAM

REFERENCE: FILE # C17-DIA, PLANS AND REPORT BY BOHANNON-HUSTON



HYDROLOGY:

PER REFERENCED REPORT, AND EXISTING PRELIMINARY GRADING, NO OFF-SITE FLOW IS INVOLVED.

PONDING ON INDIVIDUAL LOTS IS NOT REQUIRED; UNRESTRICTED FLOW IS ALLOWED THROUGH CURB CUTS.

ALLOWABLE DISCHARGE FROM THIS LOT IS 1.7 CFS

A RUNOFF "C" FACTOR OF 0.70 IS ACCEPTABLE ACCORDING TO THE REPORT, AND RESULTS IN A PEAK "Q" = 2.2 x 2.3 x 0.70 : 0.50 = 1.7 CFS

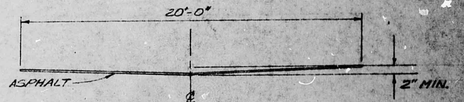
25% OF THE FLOW (0.44 CFS) EXITS BY THE EAST CURB CUT, 75% OF THE FLOW (1.33 CFS) EXITS BY THE WEST CURB CUT.

SWALE HYDRAULICS: WEST SWALE WITH 20' WIDTH, ALL PAVED, SLOPE = 0.5% - TRY 0.2' DEPTH AT ℄

A = 2.0, P = 20, R = 0.10, "n" = 0.015, S = 0.005 & Q = 2.0 (1.486/0.015) 0.215 x 0.071 = 3.0 CFS ∴ 2" DEPTH IS ADEQUATE.

CURB CUT HYDRAULICS: WIDTH = 2C', AVERAGE DEPTH = 0.20', A = 4.0, P = 20, R = 0.20, S = 0.50%

Q = 4.0 (1.486/0.015) x 0.342 x 0.071 = 9.7 CFS CAPACITY.



SWALE DETAIL
1½" = 1'-0"

DUANE LEE LOGAN N. M. 12302 REGISTERED PROFESSIONAL ENGINEER

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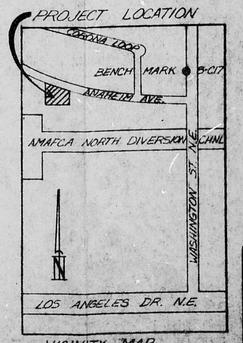

VICINITY MAP
1" = 500'

LEGEND

PROPERTY LINE

EXISTING CONTOUR 5091

PROPOSED CONTOUR 5090

EXISTING CURB

FLOW DIRECTION

EXISTING SPOT ELEVATION

PROPOSED SPOT ELEVATION

PROPOSED CHAIN LINK FENCE

C17/D10