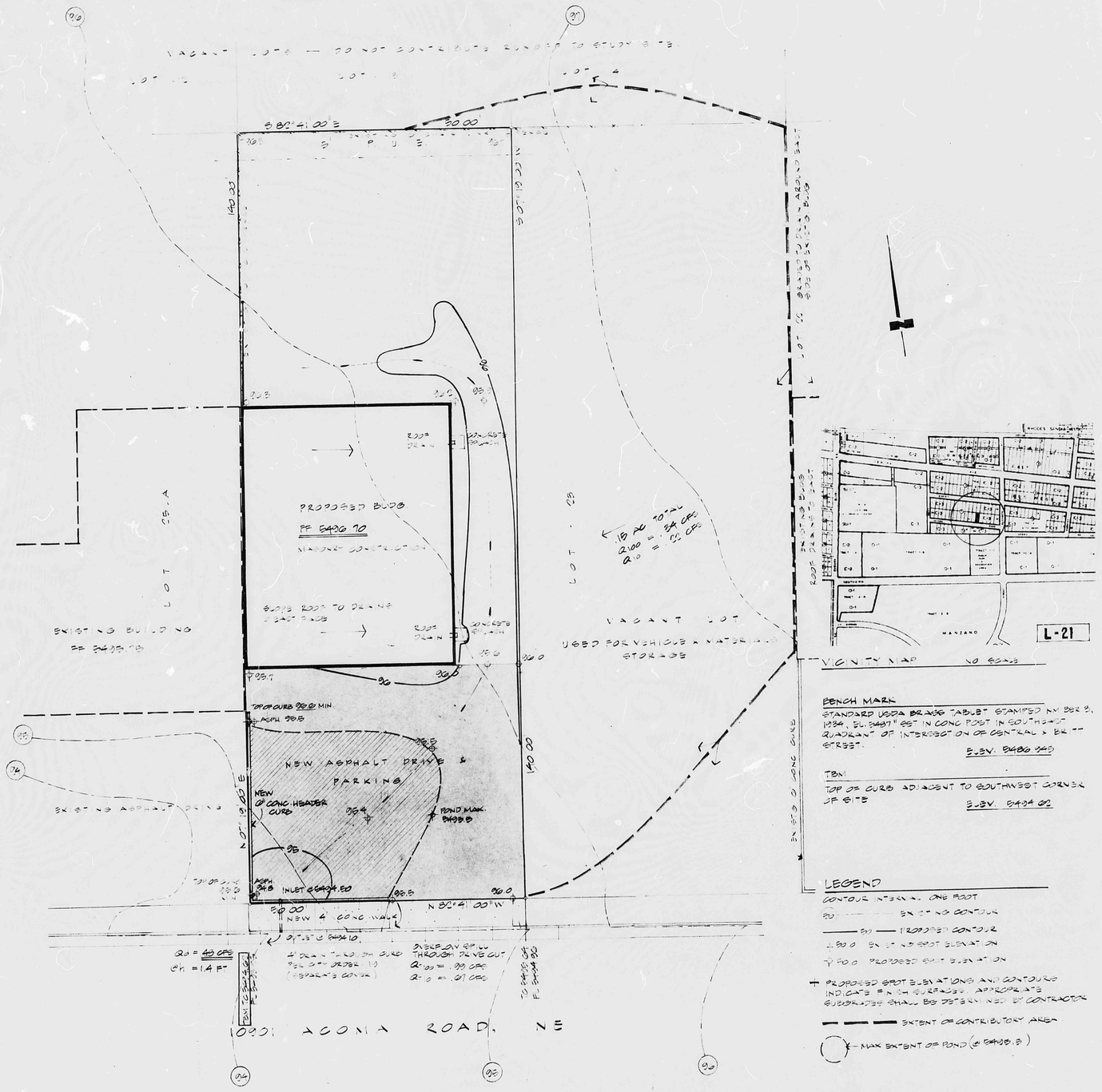
HYDROLOGY L21/D22 OFFICE/WAREHOUSE ULIBARRI

L21/D22

OFFICE / WAREHOUSE

ULIBARRI

1 PLAN



VICINITY MAP NO SCALE

CALCULATIONS

AREA	7000 SQ.FT. (.16 AC)
SLOPE	0.5%
SOIL GROUP	B
DEVELOPED CONDITIONS	49%
NOD = SCS FACTOR	.79 (WS SATURATED GRADE USE)
100-YR RAINFALL	2.6 IN. (100 YR)
TIME OF CONCENTRATION	10 MINUTES
INTENSITY	3.4 IN/HR

ON-SITE RUNOFF (DEVELOPED)

Q100 = .79 x 3.4 x .16 = .43 CFS 95%

Q10 = .087 Q100 = .49 CFS 95%

CONTRIBUTORY OFF-SITE FLOW

AREA	0000 SQ.FT. (.18 AC)
NOD = SCS FACTOR	.64 (WS SATURATED GRADE USE)
TIME OF CONCENTRATION	10 MINUTES

Q100 = .64 x 3.4 x .18 = .39 CFS 95%

Q10 = .087 Q100 = .04 CFS 95%

TOTAL RUNOFF RATES

Q100 = .43 + .39 = .80 CFS

Q10 = .49 + .04 = .51 CFS

DESIGN / DETENTION (HYDROLOGY NOTES)

SITE RUNOFF CONTRIBUTES TO NINOS (1000) DRIVE PARALLELING BRITT STREET

RUNOFF VOLUME

[.79 x 7000 + (.64 x 0000)] x .5 / 12 = 1010.00 FT

Q = .80 CFS

T = 1010 / .80 = 3880 SECONDS

DISCHARGE THROUGH 4" PIPE UNDER WALK

Q = .61 .05 x √(2g(.10)) / 4 = .40 CFS

3880 x .40 (DISCHARGE FOR DURATION) = 1552 CU FT

MINIMUM REQUIRED DETENTION = 81 CU FT

VOLUME CREATED

BASIN: 300 SQ FT

MAX DEPTH: 1.0 FT

VOL = 300 / 3 = 100 CU FT (> 81 CU FT)

BENCH MARK

STANDARD VODA BRASS TABLET STAMPED NM BER 2, 1934, EL. 5487' SET IN CONC POST IN SOUTHEAST QUADRANT OF INTERSECTION OF CENTRAL & BRITT STREET.

ELEV. 5480.945

TBM

TOP OF CURB ADJACENT TO SOUTHWEST CORNER OF SITE

ELEV. 5494.00

LEGEND

CONTOUR INTERVAL ONE FOOT

EXISTING CONTOUR

PROPOSED CONTOUR

EXISTING SPOT ELEVATION

PROPOSED SPOT ELEVATION

PROPOSED SPOT ELEVATIONS AND CONTOURS INDICATE FINISH SURFACE. APPROPRIATE SUBGRADES SHALL BE DETERMINED BY CONTRACTOR

EXTENT OF CONTRIBUTORY AREA

MAX EXTENT OF POND (@ 5498.8)

PLAN SCALE 1" = 10'

DRAINAGE PLAN

10001 ACOMA ROAD, SE
LOT : 24
BLOCK : 11
EAST CENTRAL BUSINESS ADDITION
ALBUQUERQUE, NEW MEXICO

FOR

ULIBARRI CONSTRUCTION

DONALD V. HALL NEW MEXICO REGISTERED PROFESSIONAL ENGINEER

March 5, 1985

FIELD NOTES: FEBRUARY 8, 1985

DRAINAGE
APPROVED FOR FOUNDATION ONLY
4-5-85
DATE
SIGNATURE TITLE

letter dated 4/8/85

RECEIVED
MAR 11 1985
HYDROLOGY SECTION

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