HYDROLOGY

L15/D7
TWO PLANS

L15-D7

2 PLANS

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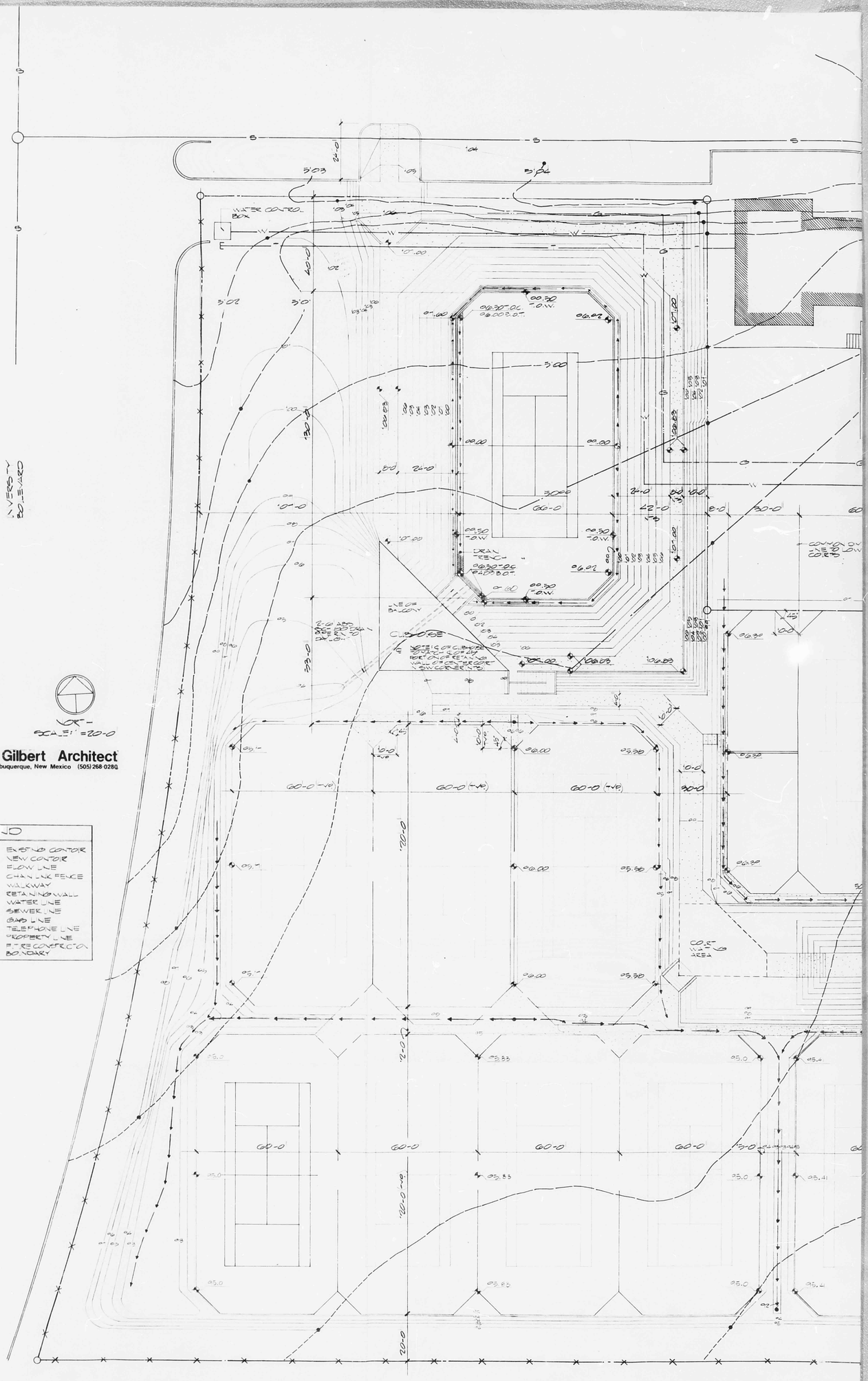
PLAN SHOT IN TWO SECTIONS.

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



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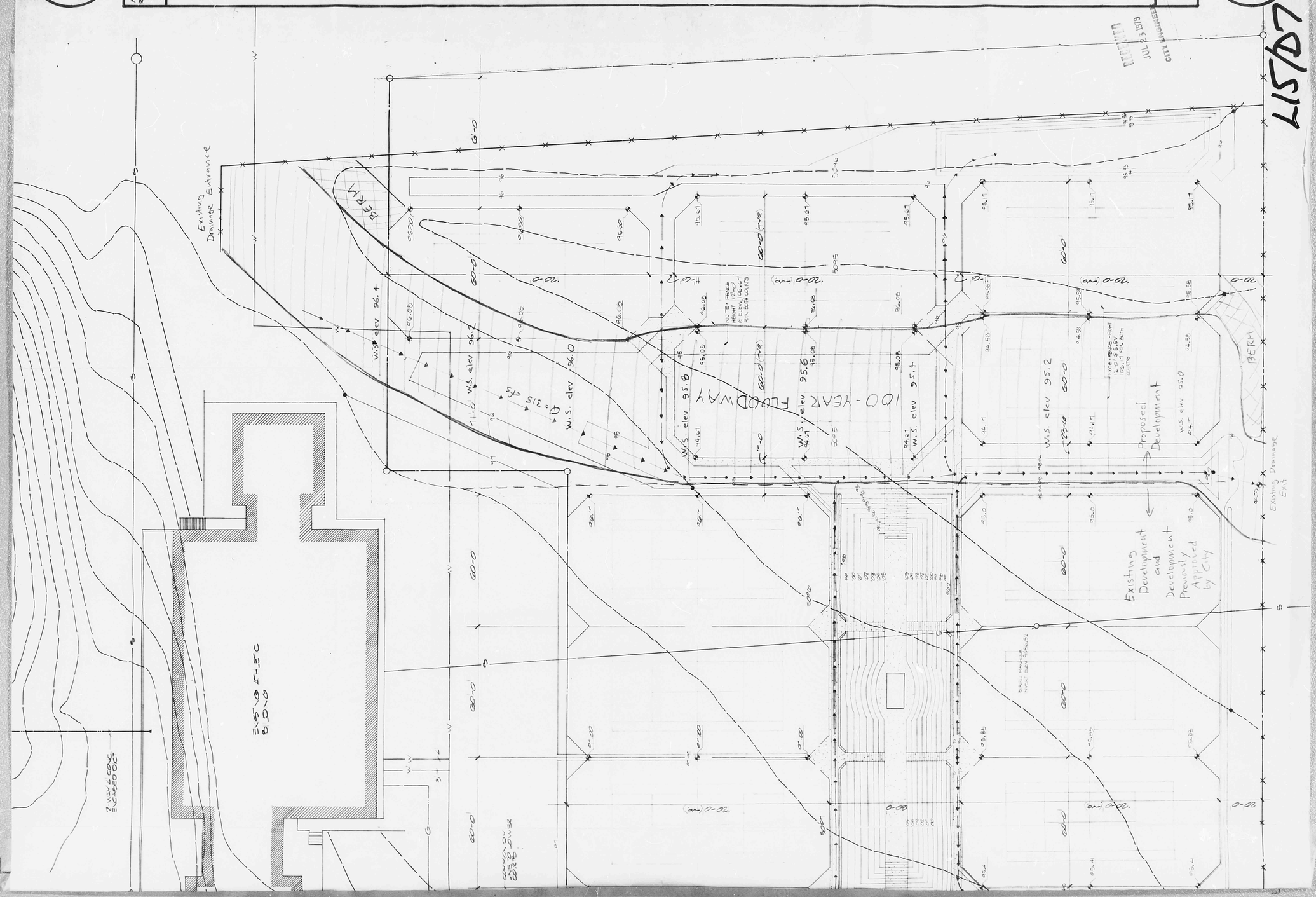
LOBO TENNIS CLUB

Van H. Gilbert Architect

AUG 30, 1977
REVISED:
SEPT. 1, 1977
SEPT. 21, 1977
JULY 11, 1978 (CHANGES & CONTOURS SHOWN BY DRAWING SHEET)

L15/D7


Existing Drainage Entrance
W.S. elev 96.4
W.S. elev 96.7
W.S. elev 96.0
Q = 315 cfs
W.S. elev 95.8
W.S. elev 95.6
W.S. elev 95.4
100-YEAR FLOODWAY
W.S. elev 95.2
W.S. elev 95.0
Proposed Development
Existing Development and Development Previously Approved by City
BERM
Existing Drainage Exit
Existing Building
Drainage Swale
Drainage Swale
Drainage Swale

1/18 SITE DRAINAGE PLAN
SCALE: 1" = 10'-0"

SYMBOL LEGEND

- 17.8 EXIST. SPOT ELEV.
- ⊕ 15.25 NEW SPOT ELEV.
- EXIST. CONTOUR
- NEW CONTOUR
- 5.9 TP. NEW SPOT ELEV. TOP OF PAVING

N

SCALE: 1" = 10'-0"

NOTES:

ELEVATIONS ARE BASED ON STATION "K-15S", A BRASS CAP SET IN CONCRETE FOR THE NORTH 1/4 CORNER OF SECTION 28 ELEVATION = 5117.817 (MSLD 1929)

SET TBM: + ON NE BONNET BOLT ON FH ELEVATION = 5116.62

25' GRID ORIGINATING AT NW CORNER OF BLDG. BASE LINES 25' NORTH AND 75' SOUTH FROM NORTH EDGE OF BLDG.

1 FT CONTOUR INTERVALS

DRAINAGE CALCULATIONS ARE BASED ON THE 100 YEAR, 6 HOUR STORM, BY USE OF THE RATIONAL METHOD.

I hereby certify that I am Registered Land Surveyor and that plat was prepared from actual surveys made by me or under my supervision & that the same is true & correct to the best of my knowledge & belief.

NMLS # 4251

REGISTERED LAND SURVEYOR STATE OF NEW MEXICO No. 4251 SANTIAGO D. GUTIERREZ

FRED C. ARMAN NEW MEXICO 7322 REGISTERED PROFESSIONAL ENGINEER

DRAINAGE CALCULATIONS

	EXISTING	PROPOSED
AREA (A)	4.05 ac. ft.	4.05 ac. ft.
Tc	10 MINUTES (MIN)	10 MINUTES (MIN)
i	5.85	5.85
C	0.20*	0.45
Q = CIA	0.12 CFS	0.19 CFS**
Q (N.P.S.H.E.)		0.07 CFS
Q = CIA		
C	2.4*	2.4
V = CIAt	17.8 CU. FT.	27.885 CU. FT.
		10.285 CU. FT.**
POINT OF DISCHARGE	OVERLAND FLOW TO THE SOUTH	OVERLAND FLOW TO THE SOUTH

NOTES:

* A 0.20 C VALUE IS HIGH FOR EXPOSED EARTH, BUT JUSTIFIED DUE TO THE HARD PACK CONDITIONS OF THE NATURAL GROUND

** THESE VALUES INDICATE MINIMAL INCREASES, AND SHOULD NOT ADVERSELY EFFECT THE AREAS DRAINAGE CHARACTERISTICS.

L15/D7

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sheet 13 of

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