

VOLUME CALCULATIONS FOR 10-DAY STORM (UNDER PROPOSED CONDITIONS)

BASIN	AREA (SF)	AREA (AC-FT)	AREA (MI ²)
ON-SITE	13503.60	0.31000	0.000484

$$E = \frac{EA(AA) + EB(AB) + EC(AC) + ED(AD)}{AA + AB + AC + AD}$$

$$V-360 = E (AA + AB + AC + AD)$$

$$V-10 \text{ Day} = V-360 + AD (P-10 \text{ Day} - P-360) / 12 \text{ in/ft}$$

EA = 0.44
EB = 0.67
EC = 0.99
ED = 1.97

AA = 0.00%
AB = 25.00%
AC = 5.00%
AD = 70.00%

P-60 = 1.87
P-360 = 2.20
P-1440 = 2.66
P-10 Day = 3.67

E = 1.5960 IN
V-360 = 0.0412 AC-FT
AD = 0.2170 AC
V-10 Day = 0.0678 AC-FT
V-10 DAY = 2,953.91 CF

Volume Displacement Due to Building Finished Floor Elevation

Area of the Building = 1664.00 SF
Depth of Volume Encroached = 0.50 FT
V-Displaced = 832.00 CF
V-Displaced = 0.0191 CF

Total Volume Required = V-10 DAY + V-Displaced
Total Volume Required = 3,785.91 CF
Total Volume Required = 0.0869 CF

GENERAL NOTES:

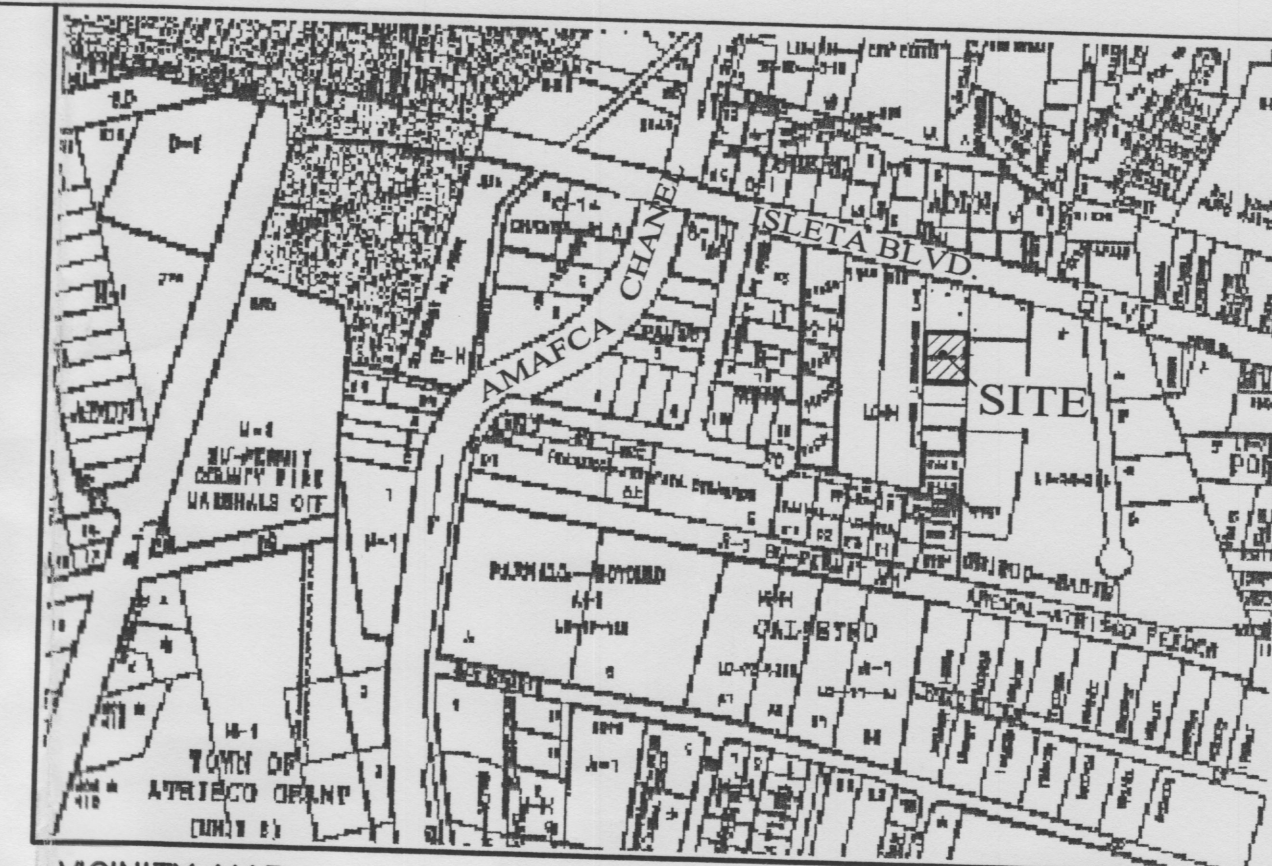
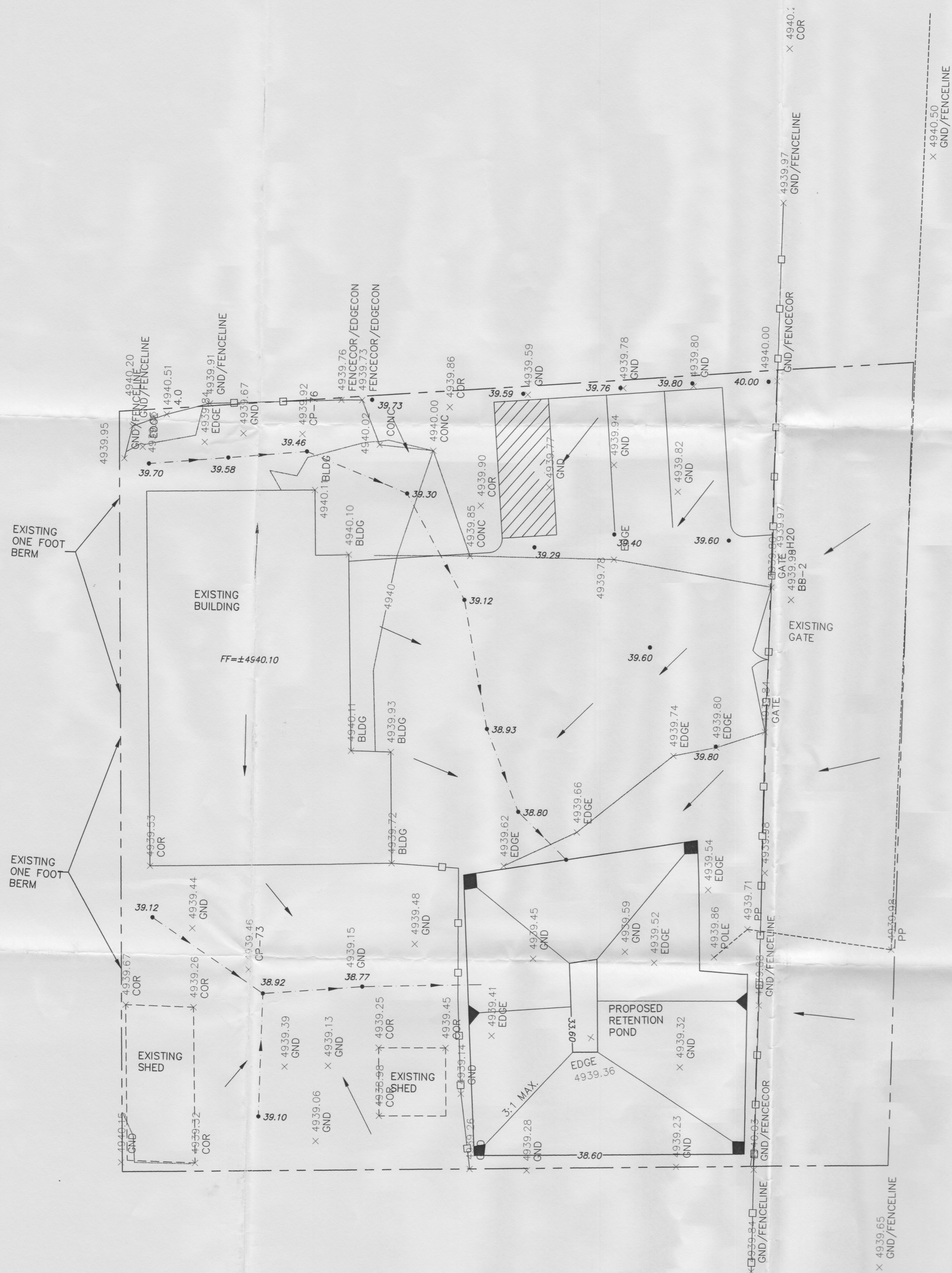
1. ADD 4900 TO SPOT ELEVATIONS TO SHOW TRUE ELEVATION.
2. CONTOUR INTERVAL IS ONE (1) FOOT.
3. ELEVATIONS ARE BASED ON CITY OF ALBUQUERQUE CONTROL STATION HAVING AN ELEVATION OF 4943.861 FEET ABOVE SEA LEVEL.
4. UTILITIES SHOWN HEREON ARE IN THEIR APPROXIMATE LOCATION BASED ONLY ON ABOVE GROUND EVIDENCE FOUND IN THE FIELD AND AS-BUILT INFORMATION PROVIDED BY THE CLIENT. UTILITIES SHOWN HEREON, WHETHER INDICATED AS ABANDONED OR NOT, SHALL BE VERIFIED BY OTHERS FOR EXACT LOCATION AND/ OR DEPTH PRIOR TO EXCAVATION OR DESIGN CONSIDERATIONS.
5. THIS IS NOT A BOUNDARY SURVEY, BEARINGS ARE ASSUMED, DISTANCES AND FOUND PROPERTY CORNERS ARE FOR INFORMATIONAL PURPOSES ONLY.
6. SLOPES ARE AT 3:1 MAXIMUM.

EROSION CONTROL PLAN AND POLLUTION PREVENTION NOTES

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT OUT OF EXISTING RIGHT-OF-WAY.
3. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL STORM RUNOFF ON SITE.
4. REPAIR OF DAMAGED FACILITIES AND CLEAN-UP OF SEDIMENT ACCUMULATION ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. AND WATER EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.
6. ALL THE DISTURBED AREAS MUST BE REVEGETATED.

RETENTION POND CALCULATION

BOTTOM AREA = 51.20 SF, TOP AREA = 1,646.34 SF, DEPTH = 5.0'
VOLUME PROVIDED = (1,646.34+51.20)/2 X 5 = 4,243.85 CF
VOLUME REQUIRED = 3,785.91 CF



VICINITY MAP:

L-11-Z

LEGAL DESCRIPTION:

TRACT 95A1 AND 95A2, 10 MRGCD MAP 42

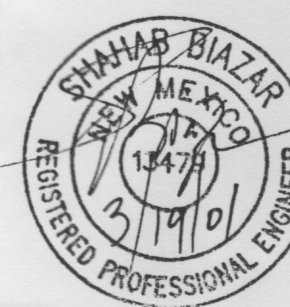
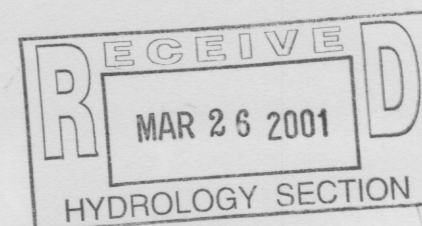
EXISTING CONDITIONS

THE ENGINEER HAS PERSONALLY INSPECTED THE LAND, AND NO GRADING, FILLING, OR EXCAVATION HAS OCCURRED THEREON SINCE THE EXISTING CONTOUR MAP WAS PREPARED.

SHAHAB BIAZAR, P.E. 3/17/01
DATE

NOTICE TO CONTRACTORS

1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.
2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1985.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
5. BACKFILL COMPACTION SHALL BE ACCORDING TO RESIDENTIAL STREET USE.
6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.



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Alex Paint & Body GRADING AND DRAINAGE PLAN

DRAWING:	DRAWN BY:	DATE:	SHEET #
2022GR.DWG	SBB	02-01-2001	

LAST REVISION: 03-19-2001

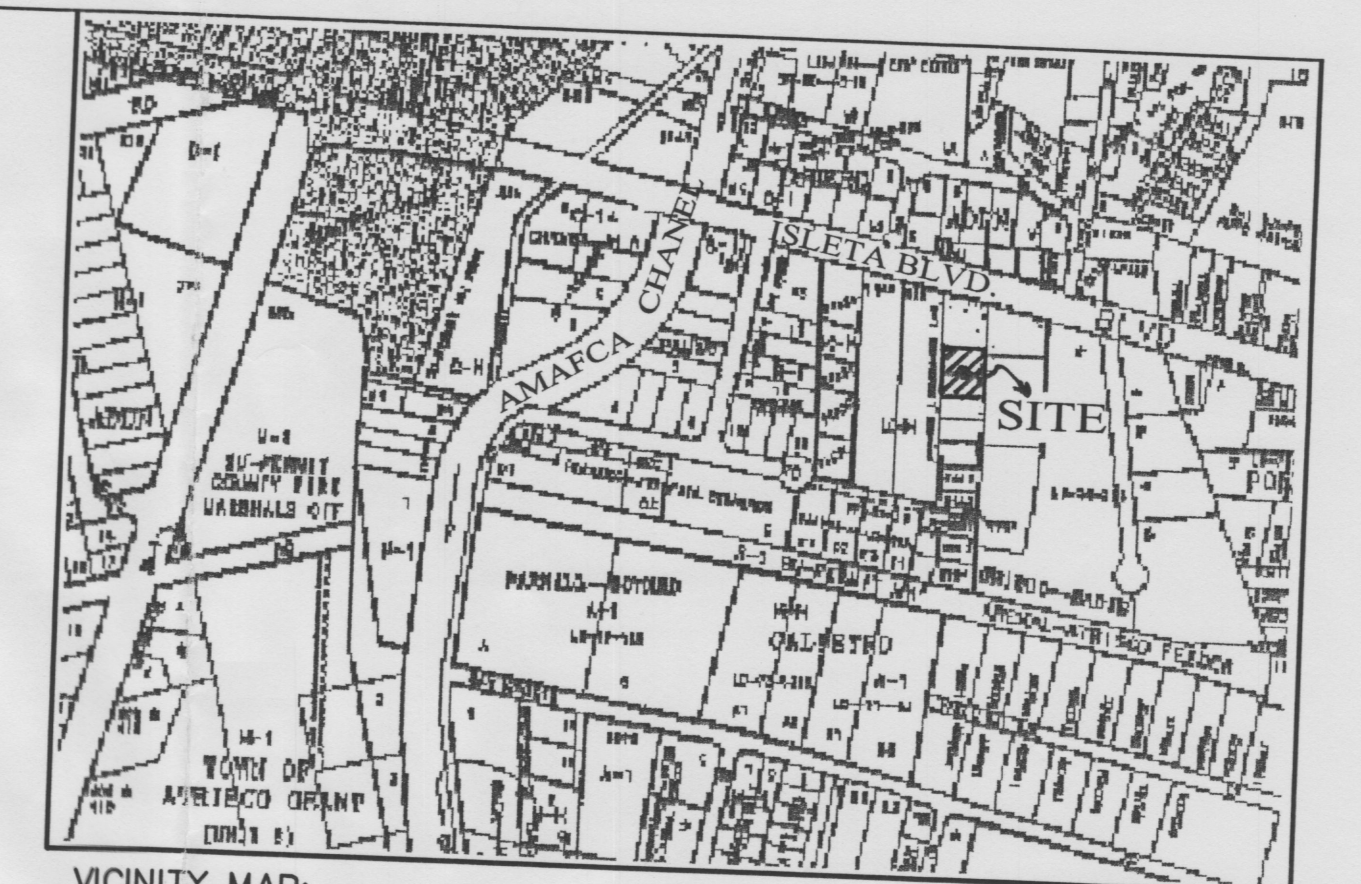
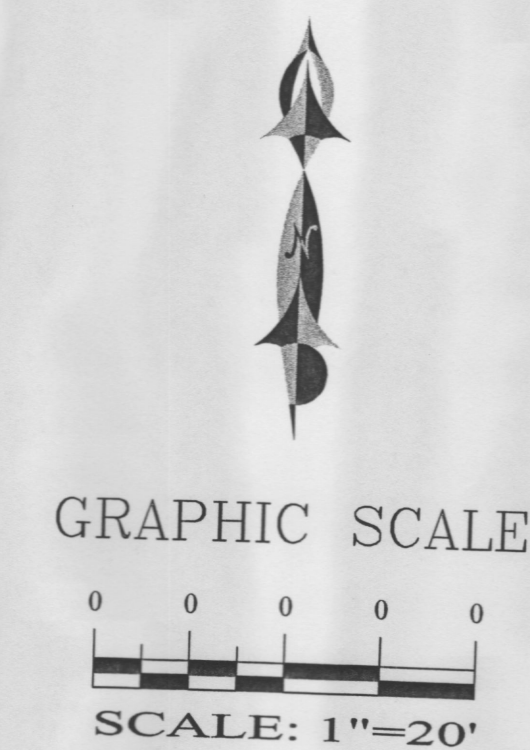
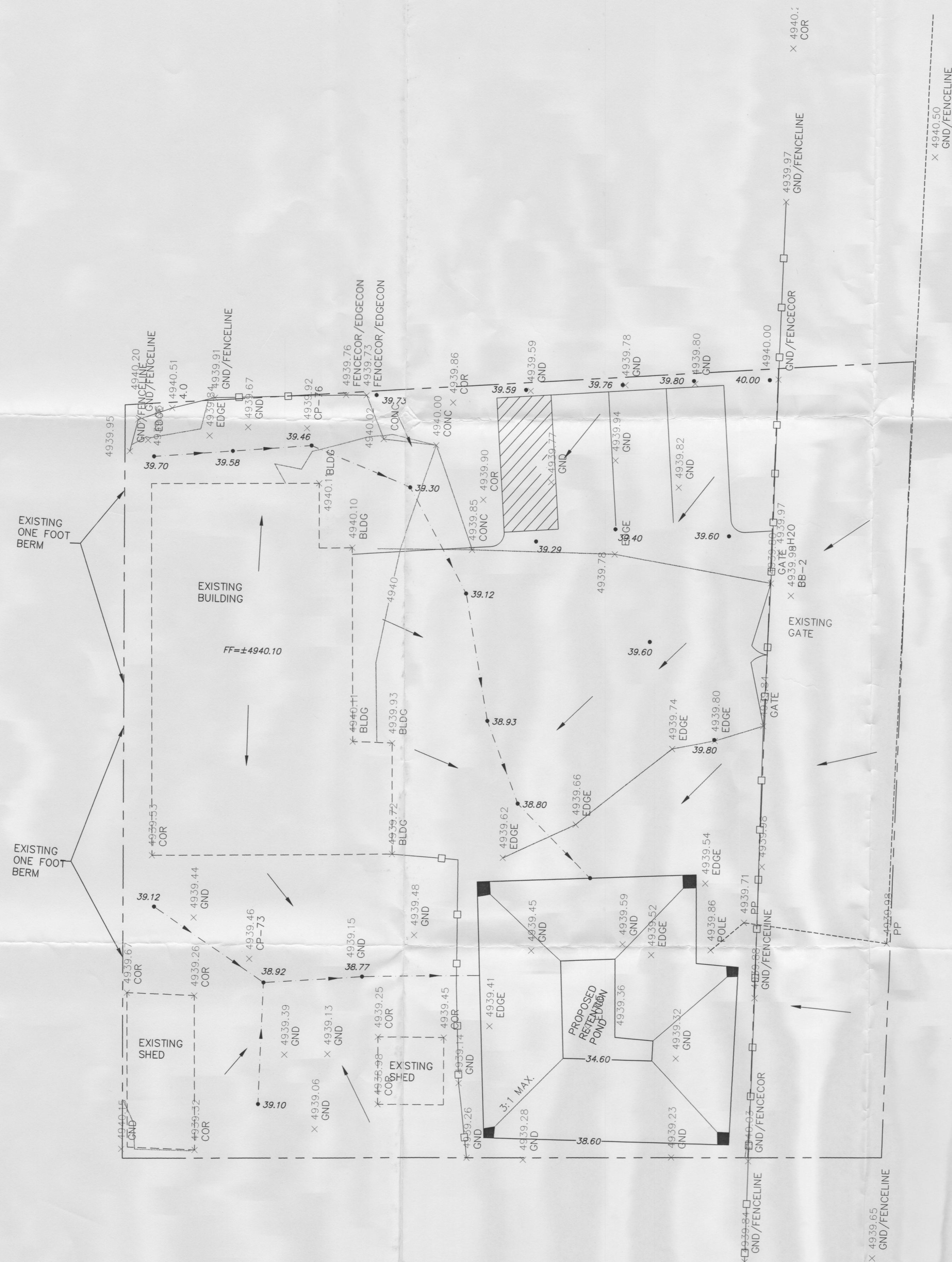
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RETENTION POND CALCULATION

BOTTOM AREA = 336.69 SF, TOP AREA = 1,379.68 SF, DEPTH = 4.0'
 VOLUME PROVIDED = $(1,379.68 + 336.69) / 2 \times 4 = 3,025.36$ CF
 VOLUME REQUIRED = 2,953.91 CF



LEGAL DESCRIPTION:
 TRACT 95A1 AND 95A2, 10 MRCD MAP 42

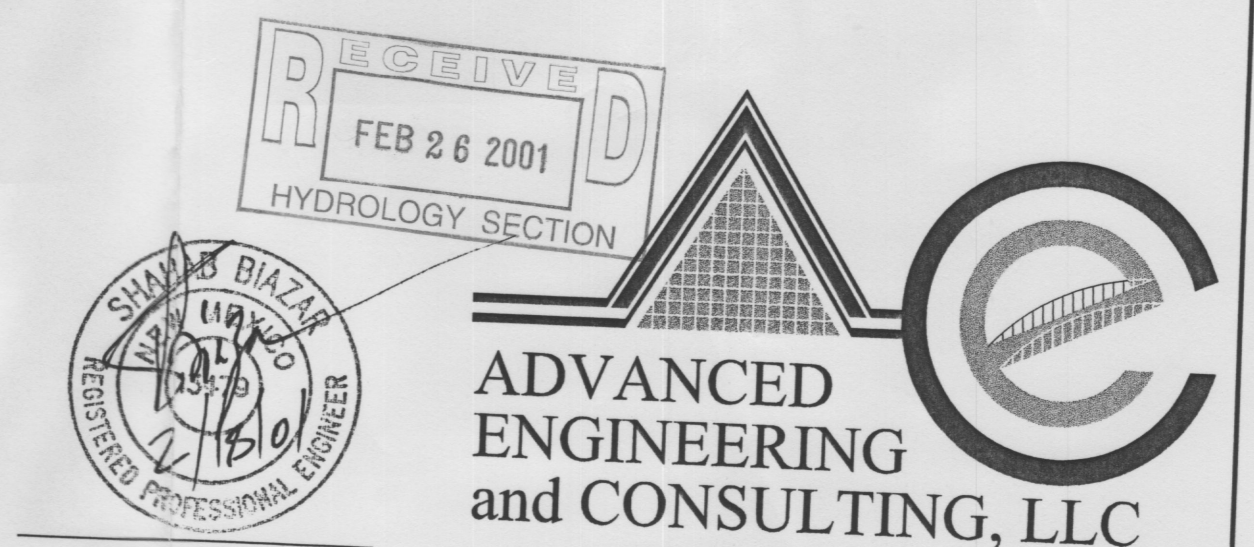
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Shahab Biazar, P.E. 2/18/01
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