Hydrology File No. C-17/D001BB

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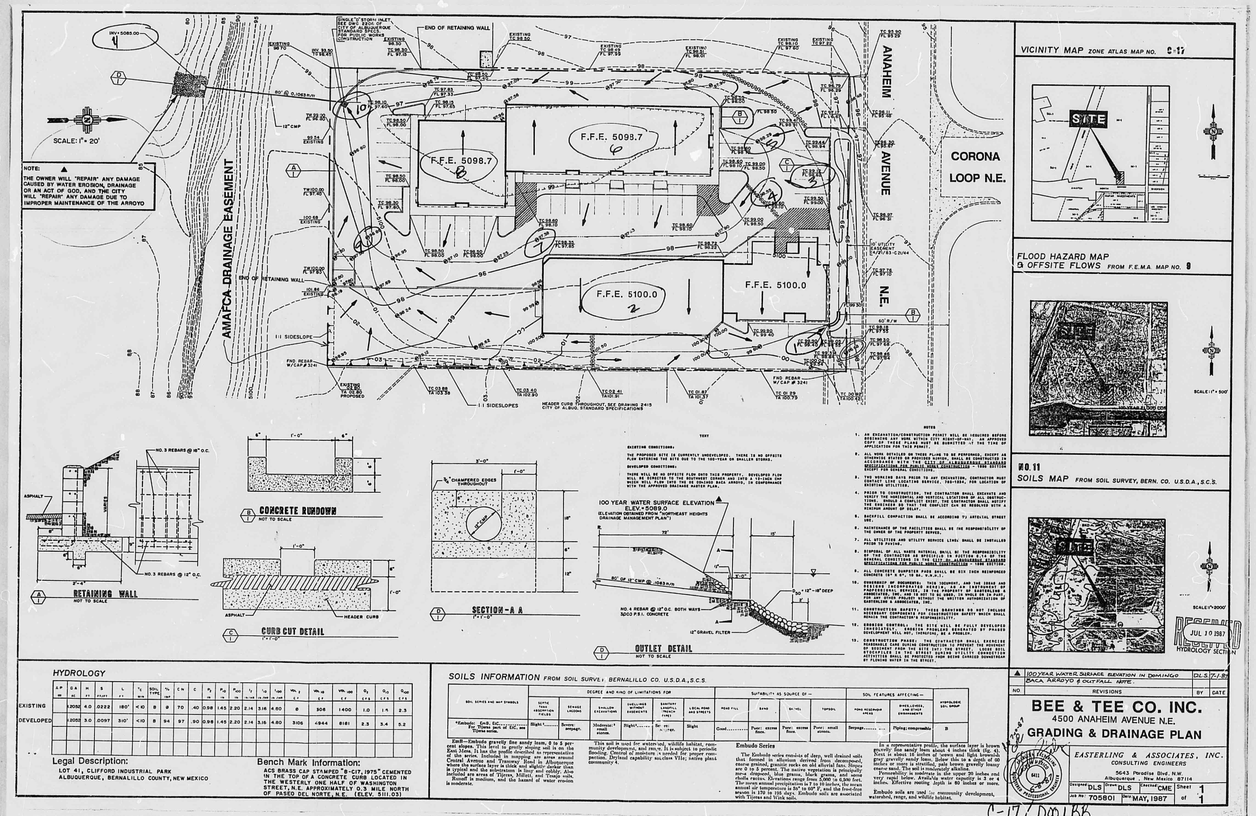

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CITY OF ALBUQUERQUE

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CITY CLERK RECORDER

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NORBERTA SANCHEZ
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires: MAY 8, 1995

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PLANS/PLATS ON FILE

FILE DESC: C-17/D001BB

PLANS/PLATS 2

CITY OF ALBUQUERQUE

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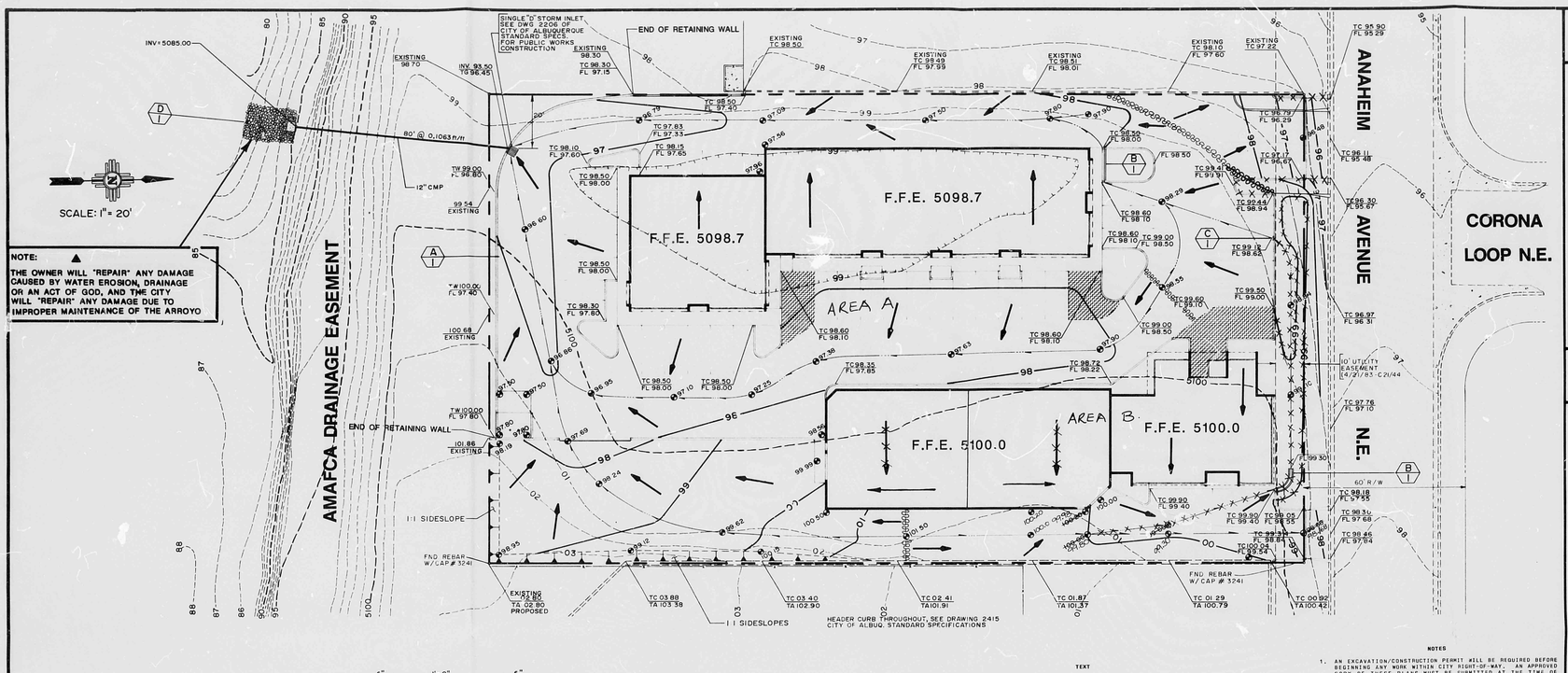
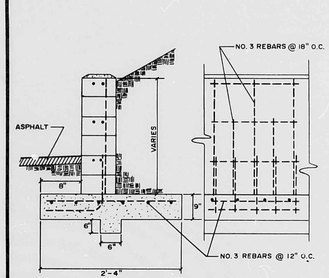
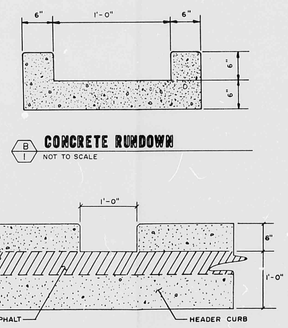
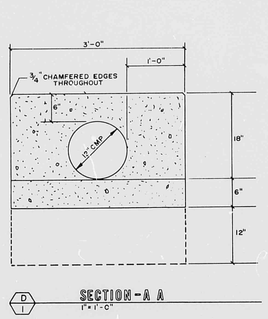
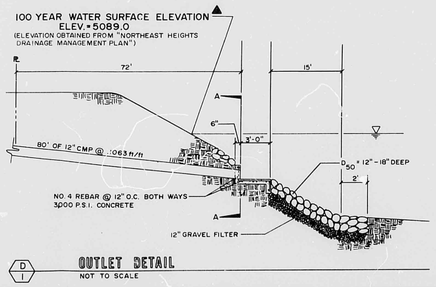










TEXT

EXISTING CONDITIONS:

THE PROPOSED SITE IS CURRENTLY UNDEVELOPED. THERE IS NO OFFSITE FLOW ENTERING THE SITE DUE TO THE 100-YEAR OR SMALLER STORMS.

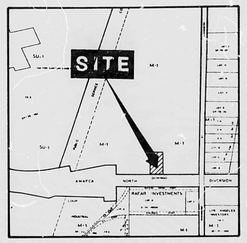
DEVELOPED CONDITIONS:

THERE WILL BE NO OFFSITE FLOW ONTO THIS PROPERTY. DEVELOPED FLOW WILL BE DIRECTED TO THE SOUTHWEST CORNER AND INTO A 12-INCH CMP WHICH WILL FLOW INTO THE DE DOMINGO BACA ARROYO, IN CONFORMANCE WITH THE APPROVED DRAINAGE MASTER PLAN.

NOTES

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 THE CITY ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION - 1986 EDITION EXCEPT FOR GENERAL CONDITIONS.
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 OBSTRUCTIONS. 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 ARTERIAL STREET USE.
6. MAINTENANCE OF THE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
7. ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
8. DISPOSAL OF ALL WASTE MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AS SPECIFIED IN SECTION 8.14 OF THE GENERAL CONDITIONS IN THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION - 1986 EDITION.
9. ALL CONCRETE DUMPSTER PADS SHALL BE SIX INCH REINFORCED CONCRETE (6" X 6", 10 GA., W.W.M.).
10. **OWNERSHIP OF DOCUMENTS:** THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF **EASTERLING & ASSOCIATES, INC.** AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF **EASTERLING & ASSOCIATES, INC.**
11. **CONSTRUCTION SAFETY:** THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE CONTRACTOR'S RESPONSIBILITY.
12. **EROSION CONTROL:** THE SITE WILL BE FULLY DEVELOPED IMMEDIATELY. EROSION PROBLEMS GENERATED BY PHASED DEVELOPMENT WILL NOT, THEREFORE, BE A PROBLEM.
13. **CONSTRUCTION PHASE:** THE CONTRACTOR SHALL EXERCISE REASONABLE CARE DURING CONSTRUCTION TO PREVENT THE MOVEMENT OF SEDIMENT FROM THE SITE INTO THE STREET. LOOSE SOIL STOCKPILES IN THE STREET DURING UTILITY CONNECTION ACTIVITIES SHALL BE PROTECTED FROM BEING CARRIED DOWNSTREAM BY FLOWING WATER IN THE STREET.

VICINITY MAP ZONE ATLAS MAP NO. C-17



FLOOD HAZARD MAP & OFFSITE FLOWS FROM F.E.M.A. MAP NO. 9

SCALE: 1" = 500'

NO. 11
SOILS MAP FROM SOIL SURVEY, BERN. CO. U.S.D.A., S.C.S.

SCALE: 1" = 2000'

THIS PLAN SHOT TWICE ONCE ON LIGHT AND ONCE ON DARK.

CITY OF ALBUQUERQUE
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HYDROLOGY

	AP BE	DA AC	H FT	S FT/FT	L FT	Tc MIN	SOIL TYPE	% IMP	CN	C	E_a IN	P_{10} IN	P_{100} IN	i_{10} IN/HR	i_{100} IN/HR	$V_{DA,10}$ CF	$V_{DA,100}$ CF	V_{10} CF	V_{100} CF	Q_2 CFS	Q_{10} CFS	Q_{100} CFS
EXISTING		1.2052	4.0	.0222	180'	<10	B	0	70	.40	0.98	1.45	2.20	2.14	3.16	4.80	0	306	1400	1.0	1.5	2.3
DEVELOPED		~~1.2052~~	~~3.0~~	~~.0097~~	~~310'~~	~~<10~~	~~B~~	~~94~~	~~97~~	~~.90~~	~~0.98~~	~~1.45~~	~~2.20~~	~~2.14~~	~~3.16~~	~~4.80~~	~~306~~	~~1944~~	~~6181~~	~~2.3~~	~~3.4~~	~~5.2~~
	A	.95	NA	NA	NA	<10	B	96	96	.90	.98	1.45	2.20	2.14	3.16	4.80	2,173	3759	6,104	1.8	2.7	4.1
	B*	.26	NA	NA	NA	<10	B	88	94	.85	.98	1.45	2.20	2.14	3.16	4.80	472	887	1,491	.05	0.7	1.1

Legal Description:

LOT 41, CLIFFORD INDUSTRIAL PARK
ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

* DRAINS TO STREET

Bench Mark Information:

ACS BRASS CAP STAMPED "8-C17, 1975" CEMENTED IN THE TOP OF A CONCRETE CURB LOCATED IN THE WESTERLY ONE HALF OF WASHINGTON STREET, N.E. APPROXIMATELY 0.3 MILE NORTH OF PASEO DEL NORTE, N.E. (ELEV. 5111.03)

SOILS INFORMATION FROM SOIL SURVEY, BERNALILLO CO. U.S.D.A., S.C.S.

SOIL SERIES AND MAP SYMBOLS	DEGREE AND KIND OF LIMITATIONS FOR: SEPTIC TANK ABSORPTION FIELDS	SEWAGE LAGOONS	SHALLOW EXCAVATIONS	DWELLINGS WITHOUT BASEMENTS	SANITARY LANDFILL (TRENCH TYPE)	LOCAL ROAD AND STREETS	SUITABILITY AS SOURCE OF: ROAD FILL	SAND	GRAVEL	TOPSOIL	SOIL FEATURES AFFECTING: POND RESERVOIR AREAS	DIKES, LEVEES, AND OTHER EMBANKMENTS	HYDROLOGIC SOIL GROUP
*Embudo: EmB, EnC. For Tijeras part of EnC, see Tijeras series.	Slight[1]	Severe: seepage.	Moderate: small stones.	Slight[1]	Severe: seepage.	Slight	Good	Poor: excess fines.	Poor: excess fines.	Poor: small stones.	Seepage	Piping; compressible.	B

EmB—Embudo gravelly fine sandy loam, 0 to 5 percent slopes. This level to gently sloping soil is on the East Mesa. It has the profile described as representative of the series. Included in mapping are areas around Central Avenue and Tramway Road in Albuquerque where the surface layer is thick and slightly darker than is typical and the soil stratum is limy and cobbly. Also included are areas of Tijeras, Millett, and Tesajo soils.

Runoff is medium, and the hazard of water erosion is moderate.

This soil is used for watershed, wildlife habitat, community development, and range. It is subject to periodic flooding. Control of moisture is needed for proper compaction. Dryland capability subclass VIIe; native plant community 4.

Embudo Series

The Embudo series consists of deep, well drained soils that formed in alluvium derived from decomposed, coarse grained, granitic rocks on old alluvial fans. Slopes are 0 to 5 percent. The native vegetation is principally mesa dropseed, blue grama, black grama, and some cholla cactus. Elevations range from 5,000 to 6,500 feet. The mean annual precipitation is 7 to 10 inches, the mean annual air temperature is 58° to 60° F, and the frost-free season is 170 to 195 days. Embudo soils are associated with Tijeras and Wink soils.

In a representative profile, the surface layer is brown gravelly fine sandy loam about 4 inches thick (fig. 4). Next is about 16 inches of brown and light brownish gray gravelly sandy loam. Below this to a depth of 60 inches or more is stratified, pale brown gravelly loamy coarse sand. The soil is moderately alkaline.

Permeability is moderate in the upper 20 inches and very rapid below. Available water capacity is 3 or 4 inches. Effective rooting depth is 60 inches or more.

Embudo soils are used for community development, watershed, range, and wildlife habitat.

NO		
▲	100 YEAR WATER SURFACE ELEVATION IN DOMINGO BACA ARROYO & OUTFALL NOTE	DLS. 7-1-87
	AS-BUILT REVISIONS (HAND LETTERED)	DLS. 11-10-87

BEE & TEE CO. INC.
4500 ANAHEIM AVENUE N.E.
GRADING & DRAINAGE PLAN

RECEIVED NOV 12 1987 HYDROLOGY SECTION

EASTERLING & ASSOCIATES, INC.
CONSULTING ENGINEERS
5643 Paradise Blvd. N.W.
Albuquerque, New Mexico 87114

Designed	Drawn	Checked	Sheet
DLS	DLS	CME	1
Job No. 705801	Date MAY, 1987		of 1

DARRYL W. EASTERLING NEW MEXICO 6411 REGISTERED PROFESSIONAL ENGINEER

RE: 21 DATE 6-23-92 OP. E.T.P.
CITY OF ALBUQUERQUE
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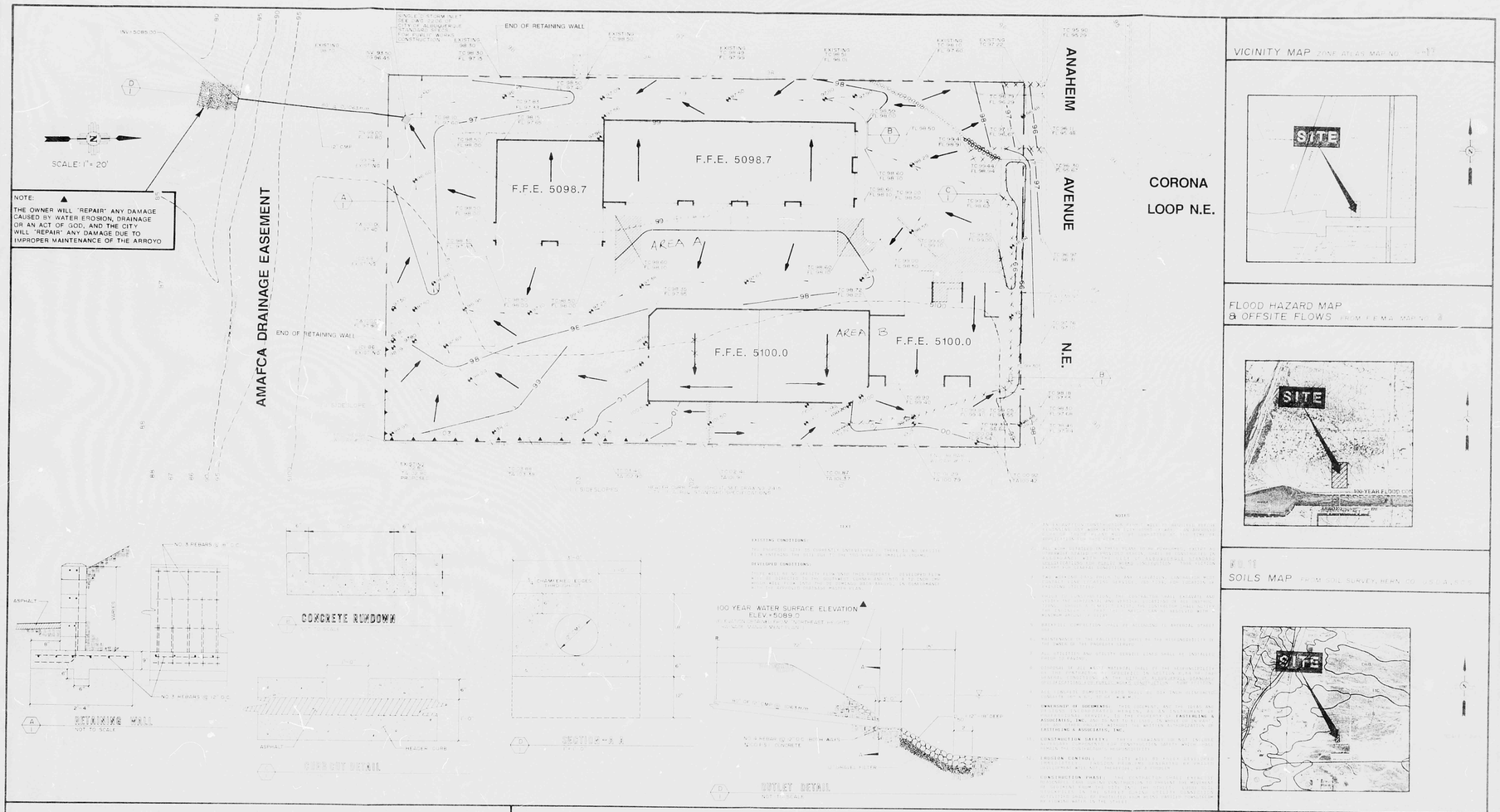
OFFICIAL SEAL NORBERTA SANCHEZ NOTARY PUBLIC STATE OF NEW MEXICO My Commission Expires MAY 8 1995

C-17-D001 BB

D 24 | C 20 | B 16 | A 12 | CITY OF ALBUQUERQUE | C | D


END OF RETAINING WALL
SCALE: 1" = 20'
NOTE:
THE OWNER WILL "REPAIR" ANY DAMAGE CAUSED BY WATER EROSION, DRAINAGE OR AN ACT OF GOD, AND THE CITY WILL "REPAIR" ANY DAMAGE DUE TO Iimproper MAINTENANCE OF THE ARROYO
AMAFCA DRAINAGE EASEMENT
F.F.E. 5098.7
F.F.E. 5098.7
AREA A
AREA B
F.F.E. 5100.0
F.F.E. 5100.0
ANAHEIM AVENUE N.E.
CORONA LOOP N.E.
VICINITY MAP
SITE
FLOOD HAZARD MAP & OFFSITE FLOWS
SITE
100 YEAR FLOOD
SOILS MAP
SITE
RETAINING WALL
CONCRETE RUNDOWN
CURB CUT DETAIL
SECTION A-A
100 YEAR WATER SURFACE ELEVATION ELEV = 5089.0
DRYLEY DETAIL

HYDROLOGY

| | | |