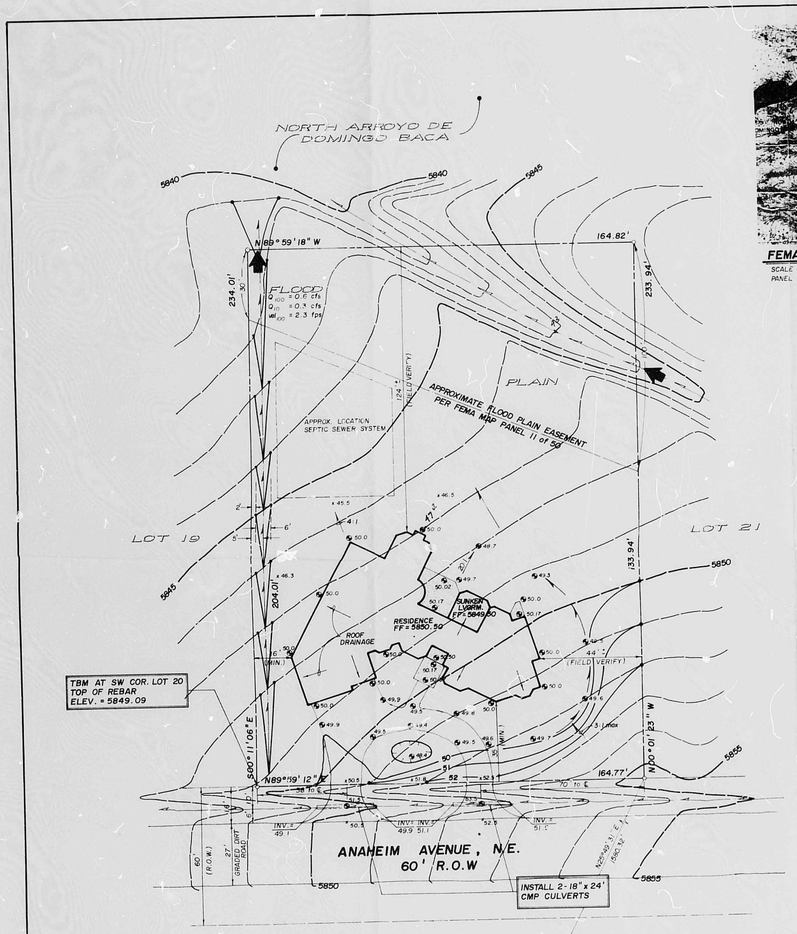
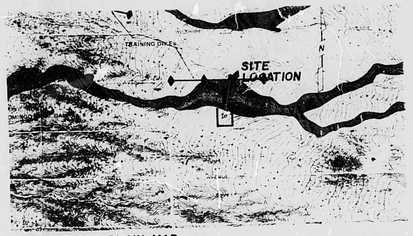
PUBLIC WORKS/HYDROLOGY

C22/D22



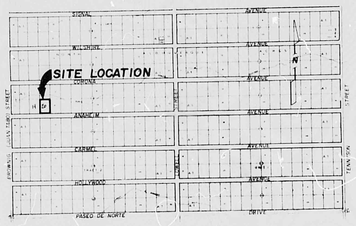
NOTE:

1. PER BERNALILLO COUNTY ORDINANCE No. 88-13, ACCESS AND PAVING PERMITS SHALL BE REQUIRED PRIOR TO START OF CONSTRUCTION.
2. THE COUNTY PUBLIC WORKS DEPT. SHALL REQUIRE THE CONSTRUCTION OF TWO (2) CULVERTS ALONG THE ANAHEIM AVENUE "PROJECT DESIGN SWALE" WHEN REQUESTING THE ACCESS PERMIT.
3. NO WALLS, OR STRUCTURES OF ANY KIND, SHALL BE CONSTRUCTED WITHIN THE FLOOD PLAIN EASEMENT.



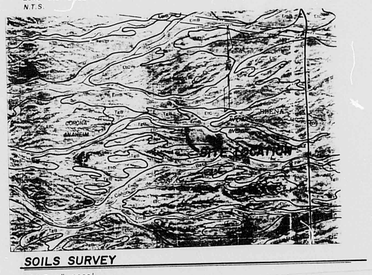
FEMA FLOOD PLAIN MAP

SCALE 1"=500'
PANEL 11



VICINITY MAP

ZONE MAP C-22
N.T.S.



SOILS SURVEY

SCALE 1" = 2000'
SHEET (2)

N
SCALE: 1"=20'
20 5 10 0 10 20

GRADING AND DRAINAGE PLAN

THE PROPOSED RESIDENTIAL HOME IS LOCATED IN NORTH ALBUQUERQUE ACRES. APPROXIMATELY 1/2 MILE NORTHEAST OF THE CONTOUR CORE OF ALBUQUERQUE, NEW MEXICO. THE GRADING AND DRAINAGE SCHEME HEREON IS IN COMPLIANCE WITH THE BERNALILLO COUNTY FLOOD HAZARD ORDINANCE #2 IN COMPLIANCE WITH THE BERNALILLO COUNTY FLOOD HAZARD ORDINANCE NO. 88-9; AND STORM DRAINAGE ORDINANCE NO. 90-6. THE PLAN IS REQUIRED TO FACILITATE THE OWNER'S REQUEST FOR BUILDING PERMIT. THE PROPOSED PLAN SHOWS:

1.) EXISTING AND NEW CONTOURS WITH EXISTING AND NEW SPOT ELEVATIONS.
2.) PROPOSED IMPROVEMENTS: DWELLING, DRIVEPAD, ASPHALT DRIVEWAY AND (PRIVATE) CMP CULVERT WITH ELEVATIONS.
3.) CONTINUITY BETWEEN EXISTING AND PROPOSED ELEVATIONS.
4.) QUANTIFICATION AND ACCEPTANCE OF UPSTREAM OFF SITE FLOWS WHICH CONTRIBUTE TO THE DEVELOPED FLOWS GENERATED BY THE IMPROVEMENTS.

THE PURPOSE OF THE PLAN IS TO FLOOD PROOF THE RESIDENTIAL DWELLING AND TO ESTABLISH CRITERIA FOR CONTROLLING STORM RUNOFF GENERATED BY THE PROPOSED IMPROVEMENTS. THE PLAN DETERMINES THE RUNOFF RESULTING FROM THE 100 YEAR/6HR. DURATION AND 10 YEAR/6HR. STORMS FOR BOTH THE EXISTING AND DEVELOPED CONDITIONS.

THE SITE IS BOUNDED ON THE SOUTH BY A RESIDENTIAL GRADED DIRT ROAD, NAMED ANAHEIM AVENUE, N.E., AND ON THE EAST, WEST, BY THE NORTH ARROYO DE DOMINGO BACA. THE ADJACENT TRACTS ARE ALSO RESIDENTIAL AND PRESENTLY UNDEVELOPED. THE SITE IS GENERALLY FALLS FROM SOUTHEAST TO NORTHWEST AT AP.9%GR. ; 2 TO 4 PERCENT. OFFSITE FLOWS ENTER THE SITE IN THE NORTHEASTERN PORTION OF THE LOT. THE LOT IS ENCUMBERED BY A DESIGNATED FEMA FLOODPLAIN ON THE NORTH END OF THE LOT, AS SHOWN. (A01 ZONE)

THE PROPOSED PLAN IS TO SET THE FINISH FLOOR OF THE RESIDENCE A MINIMUM OF TWO (2) FEET ABOVE THE HIGHEST DESIGNATED LOT ELEVATION ASSOCIATED WITH THE 100 YEAR SURFACE ELEVATION OF THE ARROYO THAT IS NORMAL TO THE AFFECTED RESIDENCE CORNER. THIS SOLUTION TO POTENTIAL FLOODING, HISTORICAL SITE NUMERICAL DATA LOCATIONS WILL REMAIN ESSENTIALLY UNCHANGED. ALL ELEVATIONS ARE SHOWN ON NORTH ARROYO DE DOMINGO BACA. DEVELOPED FLOW IS ACCEPTABLE FOR THIS THE PLAN. FREE DISCHARGE OF THE DEVELOPED FLOW IS ACCEPTABLE FOR THIS SITE SINCE THE PROJECT LAND USE INTENSITY IS APPROX. ONE (1) DWELLING UNIT PER ACRE. ALL ELEVATIONS ARE IN ACCORDANCE WITH THE HYDROLOGIC PROCEDURES AND CALCULATIONS ARE IN ACCORDANCE WITH THE INTERIM DRAINAGE DESIGN CRITERIA FOR BERNALILLO COUNTY, DATED APRIL, 1990.

CALCULATIONS

I. DESIGN CRITERIA

HYDROLOGIC METHODS PER INTERIM DRAINAGE DESIGN CRITERIA FOR BERNALILLO COUNTY, APRIL, 1990.
DISCHARGE RATE: $Q = Q_p \times A$ ..."PEAK DISCHARGE RATES FOR SMALL WATERSHEDS"
VOLUMETRIC DISCHARGE: VOL. = $E_{RECEIVED} \times V$

SOIL TYPE, 'B' - TIJERAS GRAVELLY FINE SAND LOAM, TqB: ZONE 4
P_{60} = 2.5 IN.
TC = 30 MIN.
DESIGN STORM: 100 YR. - 6 HR., 10 YR. - 6 HR., [ ] = 10 YR. VALUES

II. EXISTING CONDITIONS

A = 0.89 AC. EXCESS PRECIP. = 0.66 IN., [0.27]
I AND TREATMENT 'A' TC = 10 MIN.
PEAK DISCHARGE = 2.26 CFS/ACRE [0.99]
Q_{100} = 2.01 CFS Q_{10} = 0.88 CFS
VOL_{100} = 2132 C.F. VOL_{10} = 872 C.F.

III. DEVELOPED CONDITIONS

A = 0.89 AC.
DET. LAND TREATMENTS / PEAK DISCHARGE / WEIGHTED EXCESS PRECIP.

	LAND TREATMENT		PEAK DISCHARGE, CFS/ACRE	E,
PAVEMENT	= 0.02 AC.	D	5.74 [3.91]	2.57 IN. [1.60]
ROOF	= 0.09 AC.	D	5.74 [3.91]	2.57 IN. [1.60]
L.S.	= 0.06 AC.	B	3.05 [1.61]	0.85 IN. [0.38]
UNDEV.	= 0.72 AC.	A	2.26 [0.99]	0.66 IN. [0.27]
	0.89 AC.			

$E_{RECEIVED}$ = 0.91 IN. [0.44]
Q_{100} = 2.44 CFS Q_{10} = 1.24 CFS
VOL_{100} = 2940 C.F. VOL_{10} = 1421 C.F.

GENERAL INFORMATION

LEGAL DESCRIPTION:

LOT 20, BLOCK 14, TRACT 2, UNIT 1, NORTH ALBUQUERQUE ACRES, BERNALILLO COUNTY, NEW MEXICO.

PROJECT BENCHMARK:

A STANDARD ACS BRASS TAPLEY STAMPED "2-C21, 1985", LOCATED IN THE NORTHWEST QUADRANT OF THE INTERSECTION OF PASEO DEL NORTE, N.E., AND BROWNING AVENUE, N. T. TRIGONOMETRIC ELEV. = 5834.10.

PROPERTY ADDRESS:

ANAHEIM AVENUE, N.E., ALBUQUERQUE, NEW MEXICO.

TOPOGRAPHIC SURVEY:

TOPOGRAPHIC INFORMATION COMPILED FROM SURVEY PERFORMED ON JUNE 11, 1991, BY TECHNICAL MANAGEMENT SERVICES COMPANY.

LEGEND

- FOUND REBAR W/CAP
- NEW SPOT ELEVATION
- x 46.5 EXISTING SPOT ELEVATION
- FF FINISH FLOOR ELEVATION
- NEW CONCRETE
- NEW SWALE
- EXISTING FLOWLINE
- NEW CONTOUR
- EXISTING CONTOUR
- BOUNDARY LINE

I, PHILIP W. CLARK, A PROFESSIONAL ENGINEER LICENSED IN ACCORDANCE WITH THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT I HAVE VISITED THE SITE SHOWN HEREON AND, TO THE BEST OF MY KNOWLEDGE, SHOWN REPRESENT THE EXISTING GROUND CONDITIONS, AND DO FURTHER CERTIFY THAT NO EARTHWORK OF ANY KIND, NOR ANY OTHER DISTURBANCE OF THE EXISTING GROUND, HAS OCCURRED ON THIS SITE SINCE THE CONTOURS WERE DETERMINED.

PHILIP W. CLARK — W.M.P.E. # 10265 — 6/3/91 DATE

BP 91-386

AMAFCA — 7/5/91 — "In area to be cleared Aldz date 7/5/91 CK 2"

BERNALILLO COUNTY H.W.D. — 7/2/91

RECEIVED JUL 15 1991 HYDROLOGY DIVISION

Technical Management Services Co.
Professional Engineering and Surveying Services
Indian Owned Economic Enterprise
1901 North "C" — Suite 1 — Albuquerque, New Mexico 87110
(505) 242-1791 — Fax (505) 242-1797

DATE	REVISION

LOT 20, BLK 14, TRACT 2, UNIT 1
NORTH ALBUQUERQUE ACRES - BER CO.

GRADING & DRAINAGE PLAN

DESIGNED BY: PWC — DRAWN BY: PWC — DATE: 6-5-91 — SHEET 1 OF 1

R# 24 DATE 3/4/92 OP ESP

CITY OF ALBUQUERQUE

This microimage is certified to be a complete and accurate copy of the original as it appears in the files of the **Public Works Department** and was created in the normal course of business.

The photographic process used meets the Basic Microfilm Standards of the National Micrographics Association (MS115-1979)

DIRECTOR 11/5/92

NOTARY PUBLIC
OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires 8/28/92

PLAN SHOT TWICE ONCE ON LIGHT ONCE ON DARK

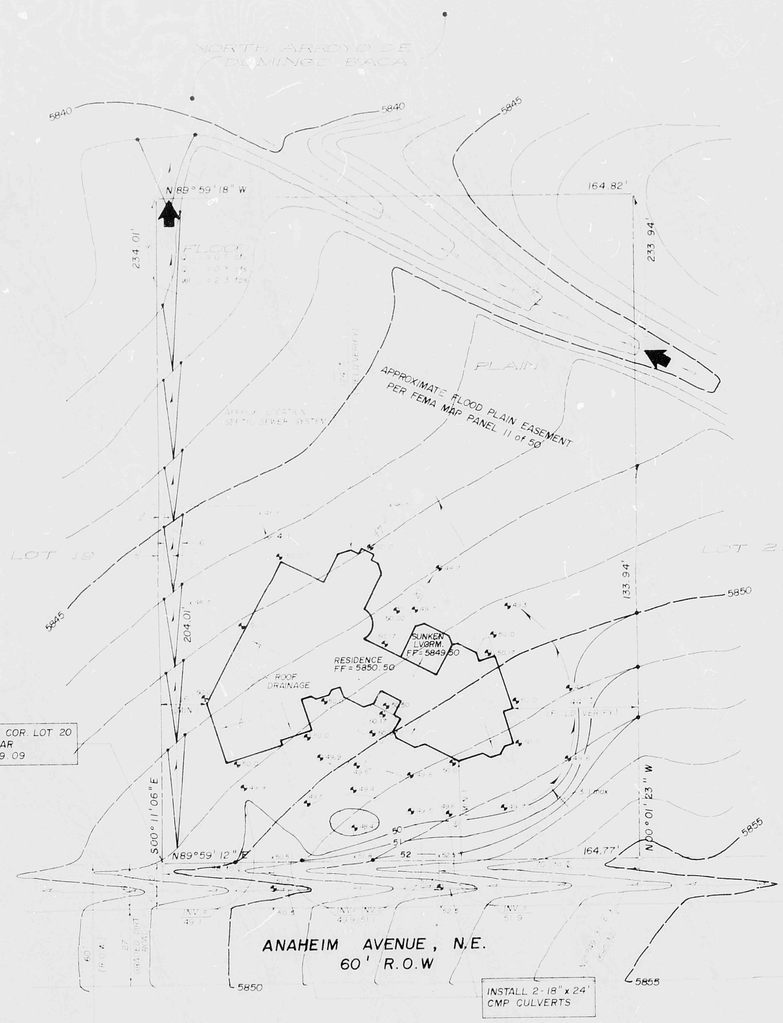
CITY OF ALBUQUERQUE
THIS MICROIMAGE IS THE BEST POSSIBLE REPRODUCTION DUE TO THE POOR QUALITY OF THE ORIGINAL DOCUMENT.

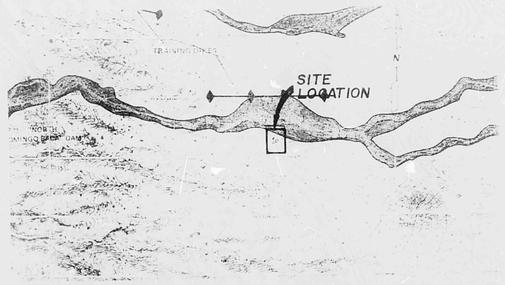
PLANS/PLATS ON FILE

FILE DESC: C22/D22

PLANS/PLATS 3

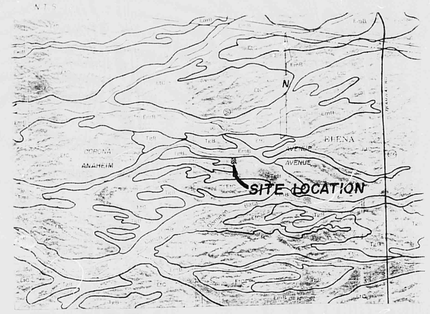
E 30 D 24 C 20 B 16 A 12 CITY OF ALBUQERQUE C D F





FEMA FLOOD PLAIN MAP

VICINITY MAP



SOILS SURVEY

SCALE 1" = 2000'
SHEET 12

GRADING AND DRAINAGE PLAN

THE PROPOSED RESIDENTIAL HOMESITE LOCATED IN NORTH ALBUQUERQUE ACRES, APPROXIMATELY [illegible] MILES NORTHEAST OF [illegible] AVENUE AND [illegible] AVENUE, N.E., THE GRADING AND DRAINAGE PLAN HEREIN SUBMITTED IN COMPLIANCE WITH THE BERNALILLO COUNTY FLOODHAZARD ORDINANCE NO. 86-64 AND STORM DRAINAGE ORDINANCE NO. [illegible] IS REQUIRED TO FACILITATE THE CONSTRUCTION PERMIT FOR BUILDING PERMIT. THE PROPOSED PLAN SHOWS:

1. EXISTING AND NEW CONTOURS WITH EXISTING AND NEW SPOT ELEVATIONS.
2. PROPOSED IMPROVEMENTS: DWELLING, DRIVEWAY, AND HALF DRIVEWAY AND ESTIMATED FINISH FLOOR ELEVATION.
3. VARIANCE BETWEEN EXISTING AND PROPOSED ELEVATION.
4. IDENTIFICATION AND ASSESSMENT OF UPSTREAM FLOOD PLAIN WHICH CONTRIBUTE TO THE DOWNSTREAM FLOOD HAZARD BY THE IMPROVEMENTS.

THE PURPOSE OF THE PLAN IS TO BUILD ONE RESIDENTIAL DWELLING AND TO ESTABLISH DRAINAGE FOR NORTHSIDE STORM RUNOFF INDUCED BY THE PROPOSED IMPROVEMENTS. THE PLAN DETERMINES THE RUNOFF RESULTING FROM THE 100 YEAR 6HR. DURATION AND 10 YEAR 6HR. DURATION STORM WITH THE EXISTING AND PROPOSED CONDITIONS.

THE SITE IS BOUNDED IN THE SOUTH BY A RESIDENTIAL GRADED DIRT ROAD, NAMED ANAHEIM AVENUE, N.E., AND IN THE NORTH BY THE NORTH ARROYO DE DOMINGO BACA. THE ADJACENT TRACTS ARE ALL RESIDENTIAL AND PRESENTLY UNDEVELOPED. THE SITE GENERALLY DRAINS FROM SOUTHEAST TO NORTHWEST AT APPROX. 2% TO 4 PERCENT. OFFSITE FLOW INTO THE SITE IS IN THE NORTHEASTERN PORTION OF THE LOT. THE LOT IS IDENTIFIED AS A DESIGNATED FEMA FLOODPLAIN IN THE NORTH END OF THE SITE, AS SHOWN ON THE PLAN.

THE PROPOSED PLAN IS TO SET THE FINISH FLOOR OF THE RESIDENCE A MINIMUM OF TWO (2) FEET ABOVE THE HIGHEST DESIGNATED FLOOD ELEVATION ASSOCIATED WITH THE 100 YEAR 6HR. PEAK ELEVATION IN THE APPROX. THAT IS NORMAL TO THE ARROYO. REGARDLESS OF THE ARROYO THAT IS POTENTIAL FLOODING, HOWEVER, THE RUNOFF INTAKE NORTH AROUND THE DOMINGO BACA ARROYO DEPRESSED AREA SHOWN ON THE PLAN. THE DISCHARGE IS TO BE ACCEPTABLE TO THE ADJACENT PROPERTY LINE, THE PROPERTY LAND USE INTENSITY IS APPROX. ONE DWELLING UNIT PER ACRE, AND LOCATED WITHIN NORTH ALBUQUERQUE ACRES. THE PROPOSED PLAN IS ACCEPTABLE IN ACCORDANCE WITH THE INTERIM DRAINAGE DESIGN CRITERIA FOR BERNALILLO COUNTY, DATE: APRIL 1990.

CALCULATIONS

I. DESIGN CRITERIA

HYDROLOGIC METHODS PER: INTERIM DRAINAGE DESIGN CRITERIA FOR BERNALILLO COUNTY, APRIL, 1990.
DISCHARGE RATES: Q = Q X A, "PEAK DISCHARGE RATES FOR SMALL WATERSHEDS"
VOLUMETRIC DISCHARGE: VOL. = E_{acre} X A

SOIL TYPE: "B" - TIJERAS GRAVELLY FINE SAND LOAM, TYPE: SCS# 4
P = 2.2 IN.
Tc = 10 MIN.
DESIGN STORM: 100 YR. - 6 HR., 10 YR. - 6 HRS., - - 10 YR. VALUES

II. EXISTING CONDITIONS

A = 0.94 AC.
EXCESS PRECIP. = 0.44 IN., (0.27)
LAND TREATMENT 'A' Tc = 10 MIN.
PEAK DISCHARGE = 2.26 CFS/ACRE (0.99)
Q = 2.11 CFS, Q = 0.94 CFS
VOL. = 2177 C.F., VOL. = 972 C.F.

III. DEVELOPED CONDITIONS

A = 0.94 AC.
WEIGHTED EXCESS PRECIP.
BEF. LAND TREATMENTS / PEAK DISCHARGE / LAND TREATMENT / PEAK DISCHARGE / 'E'

PAVEMENT	= 0.02 AC.	D	5.74 CFS	2.57	2.57 IN. (1.69)
ROOF	= 0.09 AC.	D	5.74 CFS	2.57	2.57 IN. (1.69)
LAWN	= 0.06 AC.	B	0.74 CFS	0.33	0.33 IN. (0.18)
INDEV.	= 0.76 AC.	A	2.26 CFS	0.99	0.44 IN. (0.27)
	= 0.93 AC.				

E_{acre} = 0.41 IN. (0.44)
Q = 2.44 CFS, Q = 1.44 CFS
VOL. = 2940 C.F., VOL. = 1482 C.F.

I HEREBY CERTIFY THAT I AM A PROFESSIONAL ENGINEER LICENSED IN ACCORDANCE WITH THE LAWS OF THE STATE OF NEW MEXICO, AND HEREBY CERTIFY THAT I HAVE VERIFIED THE SITE SHOWN HEREON AND THAT THE CONTOURS SHOWN REPRESENT THE EXISTING GROUND CONDITIONS, AND AS FURTHER CERTIFY THAT NO EARTHWORK OR ANY FILL, NOR ANY OTHER DISTURBANCE OF THE EXISTING GROUND HAS OCCURRED ON THIS SITE SINCE THE CONTOURS WERE DETERMINED.

PHILIP W. CLARK N.M.P.E. # 12641 DATE

NOTES:

1. PER BERNALILLO COUNTY ORDINANCE NO. 86-64, ACCESS AND PAVING PERMITS SHALL BE REQUIRED PRIOR TO START OF CONSTRUCTION.
2. THE COUNTY PUBLIC WORKS DEPT. SHALL INSPECT THE CONSTRUCTION OF TWO (2) CULVERTS ALONG THE ANAHEIM AVENUE "PROJECT DESIGN (WALL)" WHEN REQUESTING THE ACCESS PERMIT.
3. NO WALLS, OR STRUCTURES OF ANY KIND, SHALL BE CONSTRUCTED WITHIN THE FLOOD PLAIN EASEMENT.

N
SCALE 1" = 20'

GENERAL INFORMATION

LEGAL DESCRIPTION:

LOT 20, BLOCK 14, TRACT 'D UNIT 1', NORTH ALBUQUERQUE ACRES, BERNALILLO COUNTY, NEW MEXICO.

PROJECT SUBMITTER:

A TENTATIVE AND FINAL PARCEL STAMPED PLAT, LOCATED IN THE NORTHWEST QUADRANT OF THE INTERSECTION OF PASEO DEL NORTE, N.E., AND BRYANT AVENUE, N.E. TRIGON METRIC ELEV. = 5874.19'.

PROPERTY ADDRESS:

ANAHEIM AVENUE, N.E., ALBUQUERQUE, NEW MEXICO.

TOPOGRAPHIC SURVEY:

TOPOGRAPHIC INFORMATION COMPILED FROM SURVEY PERFORMED ON JUNE 11, 1991, BY TECHNICAL MANAGEMENT SERVICES COMPANY.

LEGEND

	FLOOD RANGE AREA
	NEW SPOT ELEVATION
	EXISTING SPOT ELEVATION
	FINISH FLOOR ELEVATION
	NEW CONCRETE
	NEW WALK
	EXISTING FLOWLINE
	NEW CONTOUR
	EXISTING CONTOUR
	BOUNDARY LINE

AMAFCA BERNALILLO COUNTY P.W.D.

RECEIVED
JUL 15 1991
HYDROLOGY DIVISION

Technical Management Services Co.
Professional Engineering and Surveying Services
Albuquerque, New Mexico

DATE	REVISION	LOT 20, BLK 14, TRACT 'D' UNIT 1 NORTH ALBUQUERQUE ACRES - BER. CO.

GRADING & DRAINAGE PLAN

SCALE 1" = 20' | DATE 7-91 | SHEET 1 OF 1

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

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

R# 34 DATE 3/4/02 OP

CITY OF ALBUQUERQUE
This microimage is certified to be a complete and accurate copy of the original as it appears in the files of the **Public Works Department** and was created in the normal course of business.

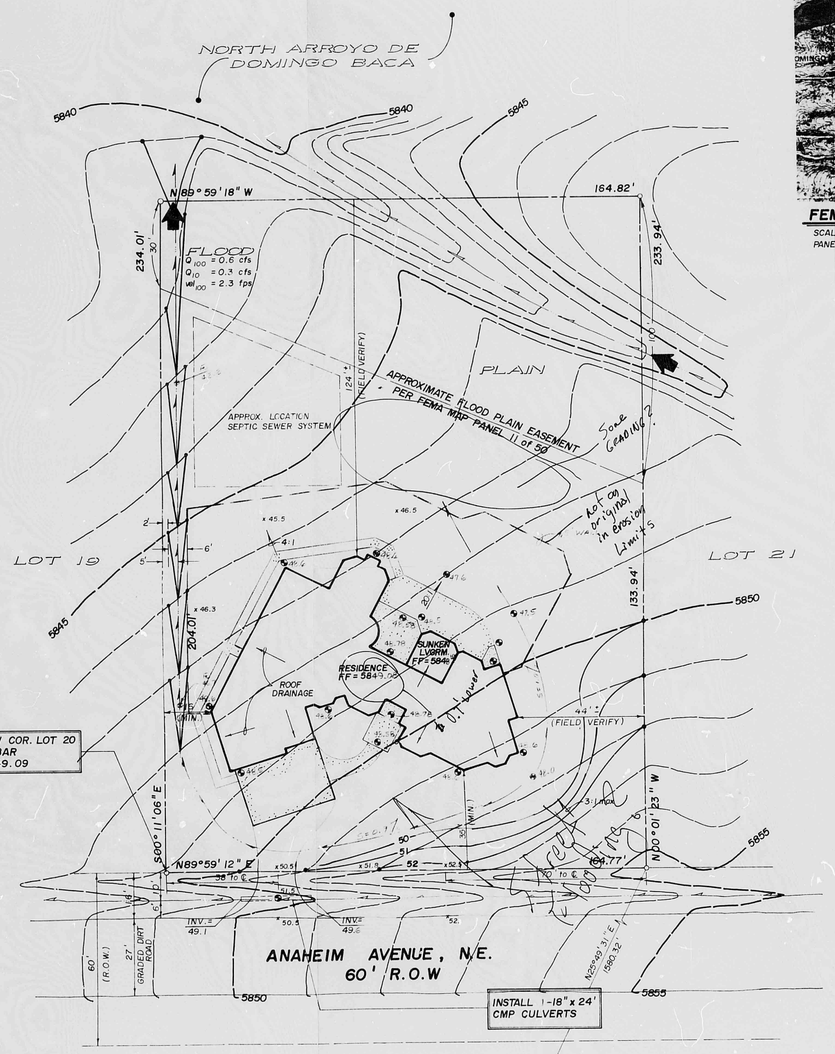
The photographic process used meets the Basic Microfilm Standards of the National Micrographics Association (MS115-1977)

11/5/02
DIRECTOR

NOTARY PUBLIC
ORIGINAL SEAL
Robert Duran
02/01/02

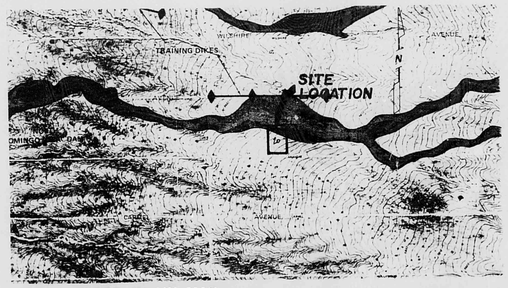
D 24 C 20 B 16 A 12

CITY OF ALBUQERQUE C D



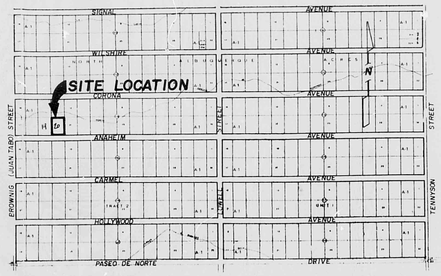
NOTE:

1. PER BERNALILLO COUNTY ORDINANCE No. 88-13, ACCESS AND PAVING PERMITS SHALL BE REQUIRED PRIOR TO START OF CONSTRUCTION.
2. THE COUNTY PUBLIC WORKS DEPT. SHALL REQUIRE THE CONSTRUCTION OF **ONE (1)** CULVERTS ALONG THE ANAHEIM AVENUE "PROJECT DESIGN SWALE" WHEN REQUESTING THE ACCESS PERMIT.
3. NO WALLS, OR STRUCTURES OF ANY KIND, SHALL BE CONSTRUCTED WITHIN THE FLOOD PLAIN EASEMENT.



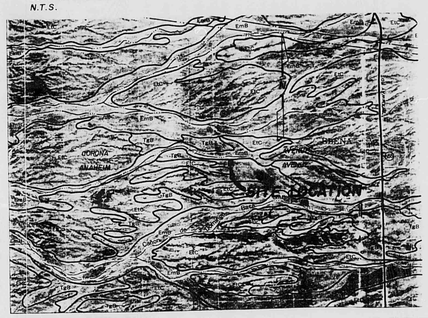
FEMA FLOOD PLAIN MAP

SCALE : 1"= 500'
PANEL 11



VICINITY MAP

ZONE MAP C-22
N.T.S.



SOILS SURVEY

SCALE : 1"= 2000'
SHEET (12)

GRADING AND DRAINAGE PLAN

THE PROPOSED RESIDENTIAL HOME IS LOCATED IN NORTH ALBUQUERQUE ACRES, APPROXIMATELY 10 MILES NORTHEAST OF THE DOWNTOWN CORE OF ALBUQUERQUE, NEW MEXICO. THE GRADING AND DRAINAGE SCHEME HEREON IS IN COMPLIANCE WITH THE BERNALILLO COUNTY FLOOD HAZARD ORDINANCE NO. 88-46, AND STORM DRAINAGE ORDINANCE NO. 90-6. THE PLAN IS REQUIRED TO FACILITATE THE OWNER'S REQUEST FOR BUILDING PERMIT. THE PROPOSED PLAN SHOWS:

1.) EXISTING AND NEW CONTOURS WITH EXISTING AND NEW SPOT ELEVATIONS.
2.) PROPOSED IMPROVEMENTS: DWELLING, DRIVEPAD, ASPHALT DRIVEWAY AND (PRIVATE) CMP CULVERT PIPES.
3.) CONTINUITY BETWEEN EXISTING AND PROPOSED ELEVATIONS.
4.) QUANTIFICATION AND ACCEPTANCE OF UPSTREAM OFF SITE FLOWS WHICH CONTRIBUTE TO THE DEVELOPED FLOWS GENERATED BY THE IMPROVEMENTS.

THE PURPOSE OF THE PLAN IS TO FLOOD PROOF THE RESIDENTIAL DWELLING AND TO ESTABLISH CRITERIA FOR CONTROLLING STORM RUNOFF GENERATED BY THE PROPOSED IMPROVEMENTS. THE PLAN DETERMINES THE RUNOFF RESULTING FROM THE 100 YEAR/6HR. DURATION AND 10 YEAR/6HR. STORMS FOR BOTH THE EXISTING AND DEVELOPED CONDITIONS.

THE SITE IS BOUNDED ON THE SOUTH BY A RESIDENTIAL GRADED DIRT ROAD, NAMED ANAHEIM AVENUE, N.E., AND ON THE NORTH BY THE NORTH ARROYO DE DOMINGO BACA. THE ADJACENT TRACTS ARE ALL RESIDENTIAL AND PRESENTLY UNDEVELOPED. THE SITE GENERALLY FALLS FROM SOUTHEAST TO NORTHWEST AT APPROX. 3 TO 4 PERCENT. OFFSITE FLOWS ENTER THE SITE IN THE NORTHEASTERN PORTION OF THE LOT. THE LOT IS ENCUMBERED BY A DESIGNATED FEMA FLOODPLAIN ON THE NORTH END OF THE LOT, AS SHOWN. (A01 ZONE)

THE PROPOSED PLAN IS TO SET THE FINISH FLOOR OF THE RESIDENCE A MINIMUM OF TWO (2) FEET ABOVE THE HIGHEST DESIGNATED LOT ELEVATION ASSOCIATED WITH THE 100 YEAR SURFACE ELEVATION OF THE ARROYO THAT IS NORMAL TO THE AFFECTED RESIDENCE CORNER, AS A SOLUTION TO POTENTIAL FLOODING. HISTORICAL SITE RUN-OFF OUTFALL LOCATIONS WILL REMAIN ESSENTIALLY UNCHANGED AND DIRECTED TO THE NORTH ARROYO DE DOMINGO BACA. DEVELOPED VELOCITIES ARE SHOWN ON THE PLAN. FREE DISCHARGE OF STORM RUN OFF IS ACCEPTABLE FOR THIS SITE SINCE THE PROJECT LAND USE INTENSITY IS APPROX. ONE (1) DWELLING UNIT PER ACRE, AND LOCATED WITHIN NORTH ALBUQUERQUE ACRES. HYDROLOGIC PROCEDURES AND CALCULATIONS ARE IN ACCORDANCE WITH THE INTERIM DRAINAGE DESIGN CRITERIA FOR BERNALILLO COUNTY, DATED APRIL, 1990.

CALCULATIONS

I. **DESIGN CRITERIA**

HYDROLOGIC METHODS PER INTERIM DRAINAGE DESIGN CRITERIA FOR BERNALILLO COUNTY, APRIL, 1990.
DISCHARGE RATE: Q = Q_p x A.."PEAK DISCHARGE RATES FOR SMALL WATERSHEDS"
VOLUMETRIC DISCHARGE: VOL. = $E_{PRECIPITATION}$ x A

SOIL TYPE, 'B' - TIJERAS GRAVELLY FINE SAND LOAM, TgB; ZONE 4
P_{100} = 2.9 IN.
TC = 10 MIN.
DESIGN STORM: 100 YR. - 6 HR., 10 YR. - 6 HR., [ ] = 10 YR. VALUES

II. **EXISTING CONDITIONS**

A = 0.89 AC. EXCESS PRECIP. = 0.66 IN., [0.27]
I AND TREATMENT 'A' TC = 10 MIN.
PEAK DISCHARGE = 2.26 CFS/ACRE [0.99]
Q_{100} = 2.01 CFS Q_{10} = 0.88 CFS
$VOL._{100}$ = 2132 C.F. $VOL._{10}$ = 872 C.F.

III. **DEVELOPED CONDITIONS**

A = 0.89 AC.
DET. LAND TREATMENTS / PEAK DISCHARGE / WEIGHTED EXCESS PRECIP.

	LAND TREATMENT	PEAK DISCHARGE, CFS/ACRE		'E'
PAVEMENT = 0.02 AC.	D	5.74 [3.91]		2.57 IN. [1.60]
ROOF = 0.09 AC.	D	5.74 [3.91]		2.57 IN. [1.60]
L.S. = 0.06 AC.	B	3.05 [1.61]		0.85 IN. [0.38]
UNDEV. = 0.72 AC.	A	2.26 [0.99]		0.66 IN. [0.27]
0.89 AC.				

$E_{PRECIPITATION}$ = 0.91 IN. [0.44]
Q_{100} = 2.44 CFS Q_{10} = 1.24 CFS
$VOL._{100}$ = 2940 C.F. $VOL._{10}$ = 1421 C.F.

I, PHILIP W. CLARK, A PROFESSIONAL ENGINEER LICENSED IN ACCORDANCE WITH THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT I HAVE VISITED THE SITE SHOWN HEREON AND THAT THE CONTOURS SHOWN REPRESENT THE EXISTING GROUND CONDITIONS, AND DO FURTHER CERTIFY THAT NO EARTHWORK OF ANY KIND, NOR ANY OTHER DISTURBANCE OF THE EXISTING GROUND, HAS OCCURRED ON THIS SITE SINCE THE CONTOURS WERE DETERMINED.

Philip W. Clark 6/13/91
PHILIP W. CLARK, N.M.P.E. # 10265 DATE

N
SCALE: 1"=20'
20 15 10 5 0 10 20

LEGEND

- FOUND REBAR W/CAP
- NEW SPOT ELEVATION
- x 46.5 EXISTING SPOT ELEVATION
- FF FINISH FLOOR ELEVATION
- NEW CONCRETE
- NEW SWALE
- EXISTING FLOWLINE
- 52 NEW CONTOUR
- 5850 EXISTING CONTOUR
- BOUNDARY LINE

GENERAL INFORMATION

LEGAL DESCRIPTION:

LOT 20, BLOCK 14, TRACT 2, UNIT 1, NORTH ALBUQUERQUE ACRES, BERNALILLO COUNTY, NEW MEXICO.

PROJECT BENCHMARK:

A STANDARD ACS BRASS TABLET STAMPED "2-C21, 1985", LOCATED IN THE NORTHWEST QUADRANT OF THE INTERSECTION OF PASEO DEL NORTE, N.E., AND BROWNING AVENUE, N.E. TRIGONOMETRIC ELEV. = 5834.10.

PROPERTY ADDRESS:

ANAHEIM AVENUE, N.E., ALBUQUERQUE, NEW MEXICO.

TOPOGRAPHIC SURVEY:

TOPOGRAPHIC INFORMATION COMPILED FROM SURVEY PERFORMED ON JUNE 11, 1991, BY TECHNICAL MANAGEMENT SERVICES COMPANY.

I, PHILIP W. CLARK, P.E., DO HEREBY CERTIFY THAT THE FINISH FLOOR ELEVATIONS WERE CONSTRUCTED TO THE GRADES SHOWN HEREON, AND FURTHER ATTEST THAT THE GRADING AND DRAINAGE IS IN SUBSTANTIAL COMPLIANCE WITH THE THE APPROVED PLAN, WITH MINOR REVISIONS CONTAINSD HEREIN.

Philip W. Clark 10/31/91
PHILIP W. CLARK, P.E. N.M.P.E. # 10265

AMAFCA 7/15/91
BERNALILLO COUNTY P.W.D. 7/15/91
For memo to C. Hart dated 7/15/91 C.E.

DEC 3

Technical Management Services Co.
Professional Engineering and Surveying Services
Indian Owned Economic Enterprise
7805 Marble NE Suite B Albuquerque, New Mexico 87110
(505) 262-1755 Fax (505) 262-1757

DATE	REVISION

LOT 20, BLK.14, TRACT 2, UNIT 1
NORTH ALBUQUERQUE ACRES - BER. CO.

GRADING & DRAINAGE PLAN

DESIGNED BY: PWC DRAWN BY: PWC
CHECKED BY: PWC 6-91 SHEET 1 OF 1

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

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

R# 24 DATE 3/14/02 OP

CITY OF ALBUQUERQUE
This microimage is certified to be a complete and accurate copy of the original as it appears in the files of the **Public Works Department** and was created in the normal course of business.
The photographic process used meets the Basic Microfilm Standards of the National Micrographics Association (MS115-1977)

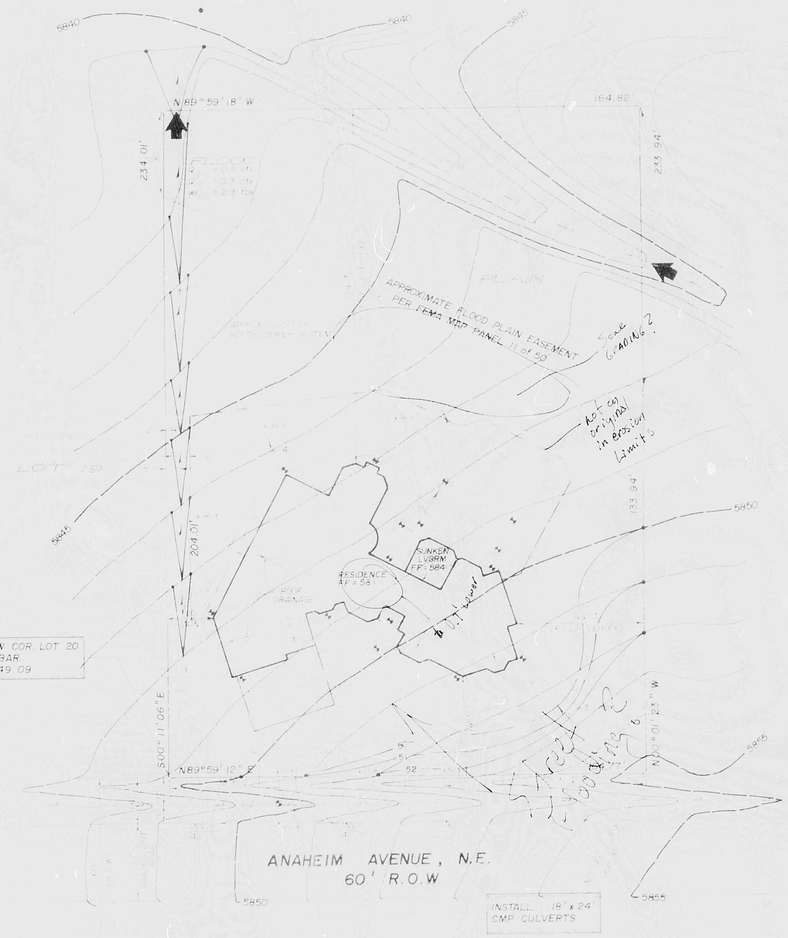
11/5/02
DIRECTOR

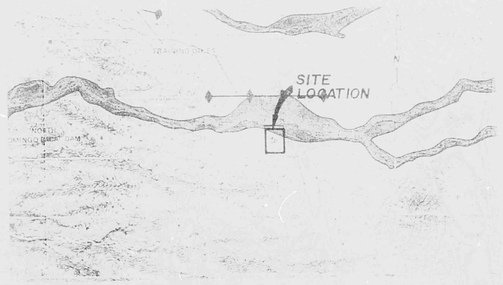
Roberta Duran
NOTARY PUBLIC
OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
My Comm. Expires 7/08/02

D 24 C 20 B 16 A 12

CITY OF ALBUQUERQUE

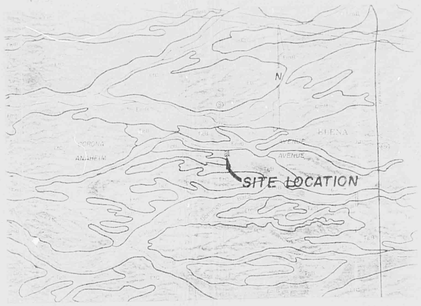
C D





FEMA FLOOD PLAIN MAP

VICINITY MAP



SOILS SURVEY

N
SCALE 1"=20'

GRADING & DRAINAGE PLAN

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

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

R# 24 DATE 5/4/02 OP

CITY OF ALBUQUERQUE

This microimage is certified to be a complete and accurate copy of the original as it appears in the files of the **Public Works Department** and was created in the normal course of business.

The photographic process used meets the Basic Microfilm Standards of the National Micrographics Association (MS115-1977)

DIRECTOR 11/5/02

NOTARY PUBLIC
OFFICIAL SEAL
Roberta Duran
07/07/02 Pmd

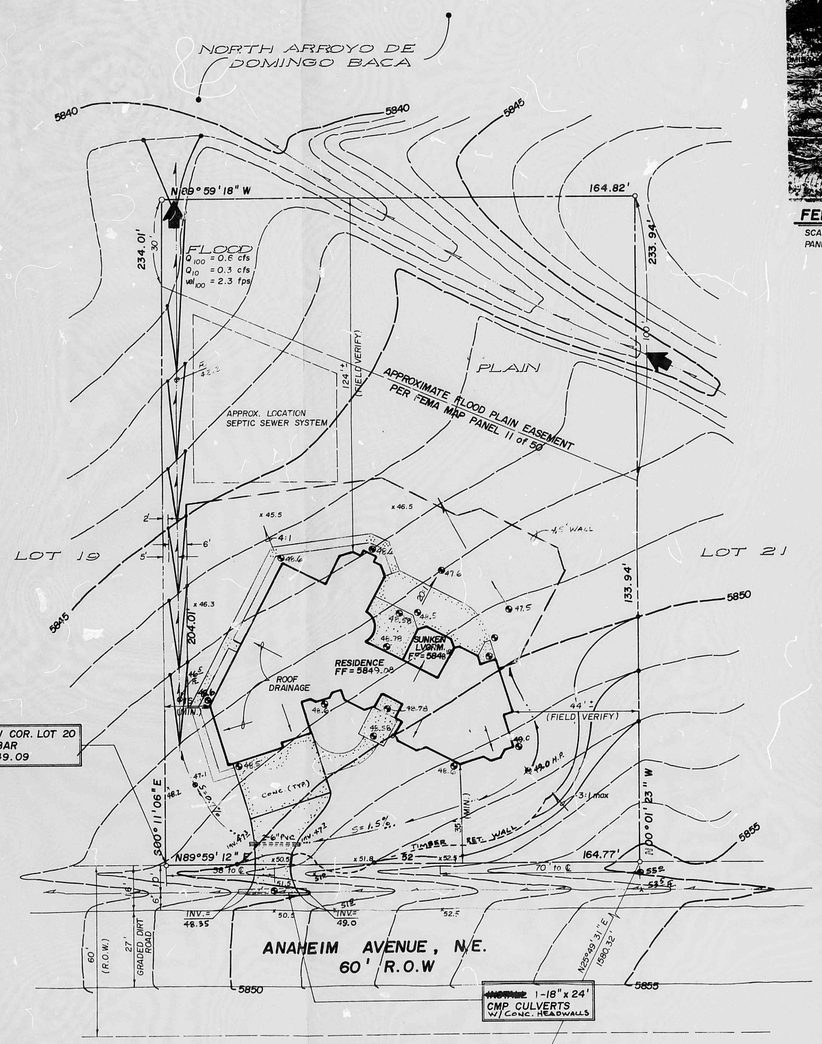
D24 C20 B16 A12

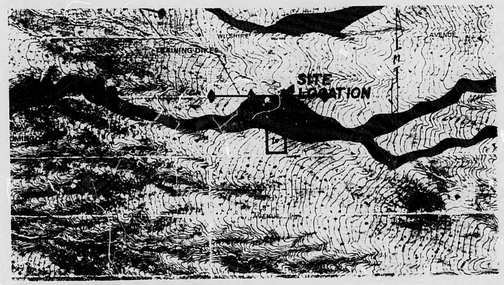
CITY OF ALBUQERQUE C D

PUBLIC WORKS/HYDROLOGY

2 of 2

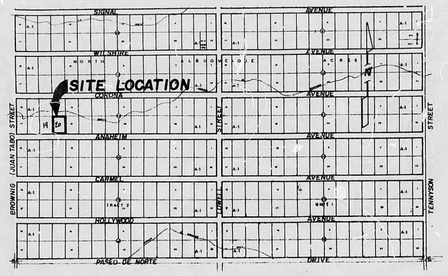
C22/D22





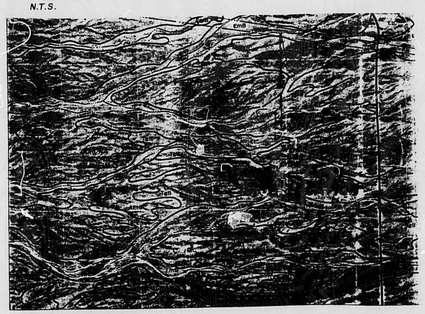
FEMA FLOOD PLAIN MAP

SCALE: 1"=500'
PANEL 11



VICINITY MAP

ZONE MAP C-22
N.T.S.



SOILS SURVEY

SCALE: 1"= 2000'
SHEET (12)

GRADING AND DRAINAGE PLAN

THE PROPOSED RESIDENTIAL HOME IS LOCATED IN NORTH ALBUQUERQUE ACRES, APPROXIMATELY 10 MILES NORTHEAST OF THE DOWNTOWN CORE OF ALBUQUERQUE, NEW MEXICO. THE GRADING AND DRAINAGE SCHEME HEREON IS IN COMPLIANCE WITH THE BERNALILLO COUNTY FLOOD HAZARD ORDINANCE NO. 88-46, AND STORM DRAINAGE ORDINANCE NO. 90-6. THE PLAN IS REQUIRED TO FACILITATE THE OWNER'S REQUEST FOR BUILDING PERMIT. THE PROPOSED PLAN SHOWS:

1.) EXISTING AND NEW CONTOURS WITH EXISTING AND NEW SPOT ELEVATIONS.
2.) PROPOSED IMPROVEMENTS; DWELLING, DRIVEPAD, ASPHALT DRIVEWAY AND (PRIVATE) CMP CULVERT PIPES.
3.) CONTINUITY BETWEEN EXISTING AND PROPOSED ELEVATIONS.
4.) QUANTIFICATION AND ACCEPTANCE OF UPSTREAM OFF SITE FLOWS WHICH CONTRIBUTE TO THE DEVELOPED FLOWS GENERATED BY THE IMPROVEMENTS.

THE PURPOSE OF THE PLAN IS TO FLOOD PROOF THE RESIDENTIAL DWELLING AND TO ESTABLISH CRITERIA FOR CONTROLLING STORM RUNOFF GENERATED BY THE PROPOSED IMPROVEMENTS. THE PLAN DETERMINES THE RUNOFF RESULTING FROM THE 100 YEAR/6HR. DURATION AND 10 YEAR/6HR. STORMS FOR BOTH THE EXISTING AND DEVELOPED CONDITIONS.

THE SITE IS BOUNDED ON THE SOUTH BY A RESIDENTIAL GRADED DIRT ROAD, NAMED ANAHEIM AVENUE, N.E., AND ON THE NORTH BY THE NORTH ARROYO DE DOMINGO BACA. THE ADJACENT TRACTS ARE ALL RESIDENTIAL AND PRESENTLY UNDEVELOPED. THE SITE GENERALLY FALLS FROM SOUTHEAST TO NORTHWEST AT APPROX. 3 TO 4 PERCENT. OFFSITE FLOWS ENTER THE SITE IN THE NORTHEASTERN PORTION OF THE LOT. THE LOT IS ENCUMBERED BY A DESIGNATED FEMA FLOODPLAIN ON THE NORTH END OF THE LOT, AS SHOWN. (A01 ZONE)

THE PROPOSED PLAN IS TO SET THE FINISH FLOOR OF THE RESIDENCE A MINIMUM OF TWO (2) FEET ABOVE THE HIGHEST DESIGNATED LOT ELEVATION ASSOCIATED WITH THE 100 YEAR SURFACE ELEVATION OF THE ARROYO THAT IS NORMAL TO THE AFFECTED RESIDENCE CORNER, AS A SOLUTION TO POTENTIAL FLOODING. HISTORICAL SITE RUN-OFF OUTFALL LOCATIONS WILL REMAIN ESSENTIALLY UNCHANGED AND DIRECTED TO THE NORTH ARROYO DE DOMINGO BACA. DEVELOPED VELOCITIES ARE SHOWN ON THE PLAN. FREE DISCHARGE OF STORM RUN OFF IS ACCEPTABLE FOR THIS SITE SINCE THE PROJECT LAND USE INTENSITY IS APPROX. ONE (1) DWELLING UNIT PER ACRE, AND LOCATED WITHIN NORTH ALBUQUERQUE ACRES. HYDROLOGIC PROCEDURES AND CALCULATIONS ARE IN ACCORDANCE WITH THE INTERIM DRAINAGE DESIGN CRITERIA FOR BERNALILLO COUNTY, DATED APRIL, 1990.

CALCULATIONS

I. DESIGN CRITERIA

HYDROLOGIC METHODS PER INTERIM DRAINAGE DESIGN CRITERIA FOR BERNALILLO COUNTY, APRIL, 1990.
DISCHARGE RATE: Q = Q_p x A...."PEAK DISCHARGE RATES FOR SMALL WATERSHEDS"
VOLUMETRIC DISCHARGE: VOL. = $E_{Pexcess}$ x A

SOIL TYPE, 'B' - TIJERAS GRAVELLY FINE SAND LOAM, TgB; ZONE 4
P_{6H} = 2.9 IN.
TC = 10 MIN.
DESIGN STORM: 100 YR. - 6 HR., 10 YR. - 6 HR., [ ] = 10 YR. VALUES

II. EXISTING CONDITIONS

A = 0.89 AC. EXCESS PRECIP. = 0.66 IN., [0.27]
I AND TREATMENT 'A' TC = 10 MIN.
PEAK DISCHARGE = 2.26 CFS/ACRE [0.99]
Q_{100} = 2.01 CFS Q_{10} = 0.88 CFS
$VOL._{100}$ = 2132 C.F. $VOL._{10}$ = 872 C.F.

III. DEVELOPED CONDITIONS

A = 0.89 AC.
DET. LAND TREATMENTS / PEAK DISCHARGE / WEIGHTED EXCESS PRECIP.

		LAND TREATMENT	PEAK DISCHARGE, 'E' CFS/ACRE	
PAVEMENT	= 0.02 AC.	D	5.74 [3.91]	2.57 IN. [1.60]
ROOF	= 0.09 AC.	D	5.74 [3.91]	2.57 IN. [1.60]
L.S.	= 0.06 AC.	B	3.05 [1.61]	0.85 IN. [0.38]
UNDEV.	= 0.72 AC.	A	2.26 [0.99]	0.66 IN. [0.27]
	0.89 AC.			

$E_{Pexcess}$ = 0.91 IN. [0.44]
Q_{100} = 2.44 CFS Q_{10} = 1.24 CFS
$VOL._{100}$ = 2940 C.F. $VOL._{10}$ = 1421 C.F.

I, PHILIP W. CLARK, A PROFESSIONAL ENGINEER LICENSED IN ACCORDANCE WITH THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT I HAVE VISITED THE SITE SHOWN HEREON AND THAT THE CONTOURS SHOWN REPRESENT THE EXISTING GROUND CONDITIONS, AND DO FURTHER CERTIFY THAT NO EARTHWORK OF ANY KIND, NOR ANY OTHER DISTURBANCE OF THE EXISTING GROUND, HAS OCCURRED ON THIS SITE SINCE THE CONTOURS WERE DETERMINED.

PHILIP W. CLARK, N.M.P.E. # 10265 — 6/13/91 DATE

N
SCALE: 1"=20'
20 15 10 5 0 10 20

LEGEND

- FOUND REBAR W/CAP
- NEW SPOT ELEVATION
- x 46.5 EXISTING SPOT ELEVATION
- FF FINISH FLOOR ELEVATION
- NEW CONCRETE
- NEW SWALE
- EXISTING FLOWLINE
- 52 NEW CONTOUR
- 5855 EXISTING CONTOUR
- BOUNDARY LINE

GENERAL INFORMATION

LEGAL DESCRIPTION:

LOT 20, BLOCK 14, TRACT 2, UNIT 1, NORTH ALBUQUERQUE ACRES, BERNALILLO COUNTY, NEW MEXICO.

PROJECT BENCHMARK:

A STANDARD ACS BRASS TABLET STAMPED "2-C21, 1985", LOCATED IN THE NORTHWEST QUADRANT OF THE INTERSECTION OF PASEO DEL NORTE, N.E., AND BROWNING AVENUE, M.E. TRIGONOMETRIC ELEV. = 5834.10.

PROPERTY ADDRESS:

ANAHEIM AVENUE, N.E., ALBUQUERQUE, NEW MEXICO.

TOPOGRAPHIC SURVEY:

TOPOGRAPHIC INFORMATION COMPILED FROM SURVEY PERFORMED ON JUNE 11, 1991, BY TECHNICAL MANAGEMENT SERVICES COMPANY.

I, PHILIP W. CLARK, P.E., DO HEREBY CERTIFY THAT THE FINISH FLOOR ELEVATIONS WERE CONSTRUCTED TO THE GRADES SHOWN HEREON, AND FURTHER ATTEST THAT THE GRADING AND DRAINAGE IS IN SUBSTANTIAL COMPLIANCE WITH THE THE APPROVED PLAN, WITH MINOR REVISIONS CONTAINED HEREIN.

PHILIP W. CLARK, P.E. — 10/31/91 Rev. 5/15/92 — N.M.P.E. # 10265

AMAFCA 7/15/91 — Per memo to C. Hunt dated 7/15/91. C.R.Cn. — BERNALILLO COUNTY H.W.D. 7/15/91

RECEIVED SEP 15 1992 HYDROLOGY DIVISION

Technical Management Services Co.
Professional Engineering and Surveying Services
Indian Owned Economic Enterprise
7501 Marble NE — Suite 3 — Albuquerque New Mexico 87110
(505) 262-1733 — Fax (505) 262-1757

DATE	REVISION
9/16/91	rev. As-built Dim

LOT 20, BLK.14, TRACT 2, UNIT 1
NORTH ALBUQUERQUE ACRES - BER. CO.

GRADING & DRAINAGE PLAN

DESIGNED BY: PWC — DRAWN BY: AS — CHECKED BY: PWC — DATE: 10/16/91 — SHEET 1 OF 1

NOTE:

1. PER BERNALILLO COUNTY ORDINANCE No. 88-13, ACCESS AND PAVING PERMITS SHALL BE REQUIRED PRIOR TO START OF CONSTRUCTION.
2. THE COUNTY PUBLIC WORKS DEPT. SHALL REQUIRE THE CONSTRUCTION OF ONE (1) CULVERTS ALONG THE ANAHEIM AVENUE "PROJECT DESIGN SWALE" WHEN REQUESTING THE ACCESS PERMIT.
3. NO WALLS, OR STRUCTURES OF ANY KIND, SHALL BE CONSTRUCTED WITHIN THE FLOOD PLAIN EASEMENT.

PLAN SHOT TWICE ONCE ON LIGHT ONCE ON DARK

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

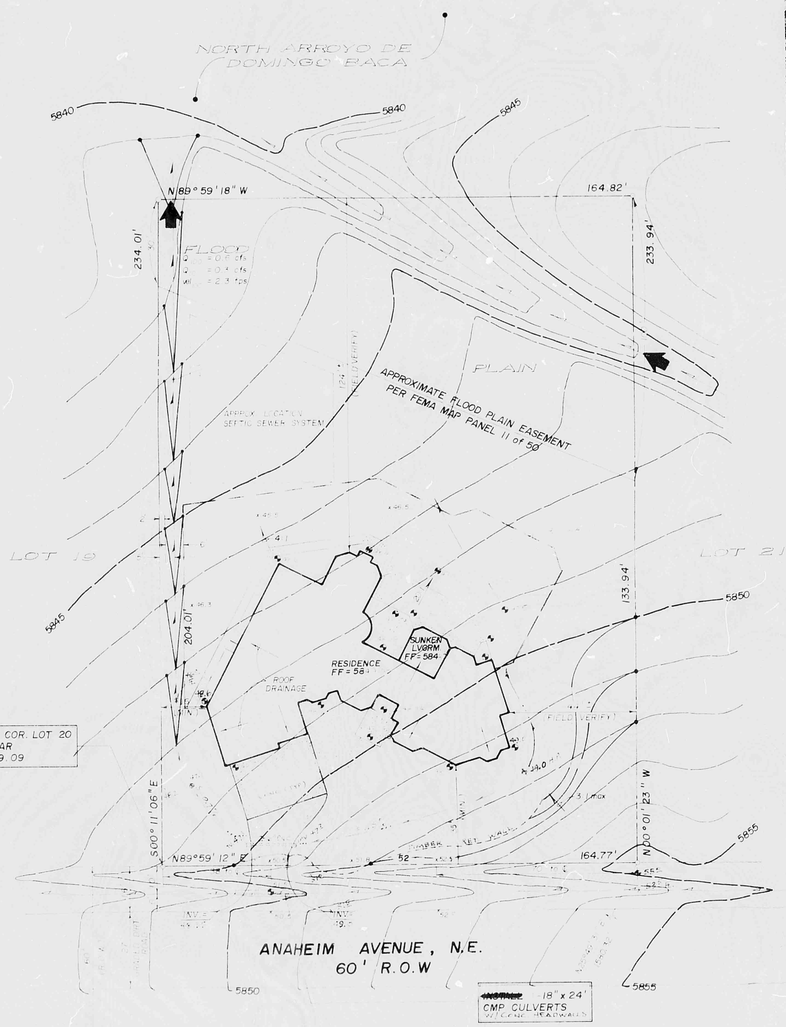
R# 24 DATE 3/14/02 OP

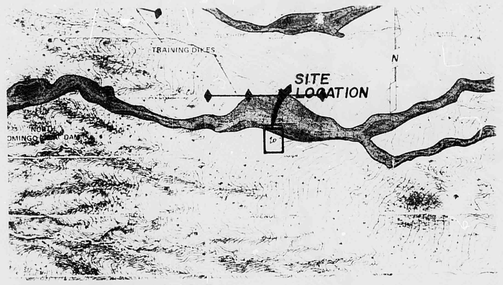
CITY OF ALBUQUERQUE
This microimage is certified to be a complete and accurate copy of the original as it appears in the files of the **Public Works Department** and was created in the normal course of business.
The photographic process used meets the Basic Microfilm Standards of the National Micrographics Association (MS115-1977)

DIRECTOR 11/15/02

NOTARY PUBLIC
OFFICIAL SEAL Roberta Duran NOTARY PUBLIC STATE OF NEW MEXICO My Commission Expires 8/08/02

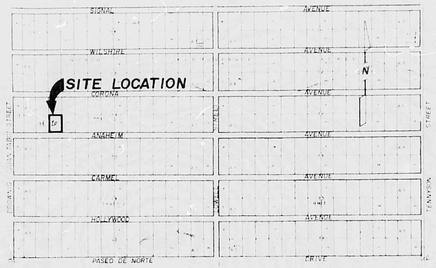
D 24 C 20 B 16 A 12 CITY OF ALBUQUERQUE C D





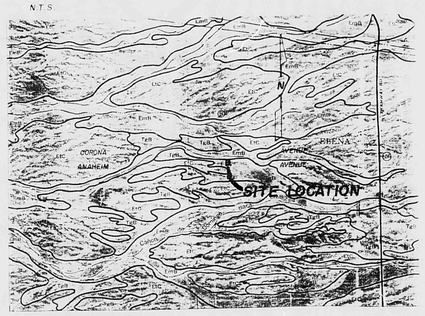
FEMA FLOOD PLAIN MAP

SCALE 1"=500'
PANEL 11



VICINITY MAP

ZONE MAP C-22
N.T.S.



SOILS SURVEY

SCALE 1"=2000'
SHEET 12

N
SCALE 1"=20'

GRADING AND DRAINAGE PLAN

THE PROPOSED RESIDENTIAL HOME IS LOCATED IN NORTH ALBUQUERQUE ACRES, APPROXIMATELY 10 MILES NORTHEAST OF THE DOWNTOWN CORE OF ALBUQUERQUE, NEW MEXICO. THE GRADING AND DRAINAGE SCHEME HEREIN IS IN COMPLIANCE WITH THE BERNALILLO COUNTY FLOOD HAZARD ORDINANCE NO. 88-46, AND STORM DRAINAGE ORDINANCE NO. 90-8. THE PLAN IS REQUIRED TO FACILITATE THE OWNER'S REQUEST FOR BUILDING PERMIT. THE PROPOSED PLAN SHOWS:

1.) EXISTING AND NEW CONTOURS WITH EXISTING AND NEW SPOT ELEVATIONS.
2.) PROPOSED IMPROVEMENTS: DWELLING, DRIVEPAD, ASPHALT DRIVEWAY AND PRIVATE CMP CULVERT PIPES.
3.) CONTINITY BETWEEN EXISTING AND PROPOSED ELEVATIONS.
4.) QUANTIFICATION AND ACCEPTANCE OF UPSTREAM OFF SITE FLOWS WHICH CONTRIBUTE TO THE DEVELOPED FLOWS GENERATED BY THE IMPROVEMENTS.

THE PURPOSE OF THE PLAN IS TO FLOOD PROOF THE RESIDENTIAL DWELLING AND TO ESTABLISH CRITERIA FOR CONTROLLING STORM RUNOFF GENERATED BY THE PROPOSED IMPROVEMENTS. THE PLAN DETERMINES THE RUNOFF RESULTING FROM THE 100 YEAR/6HR. DURATION AND 10 YEAR/6HR. STORMS FOR BOTH THE EXISTING AND DEVELOPED CONDITIONS.

THE SITE IS BOUNDED ON THE SOUTH BY A RESIDENTIAL GRADED DIRT ROAD, NAMED ANAHEIM AVENUE, N.E., AND ON THE NORTH BY THE NORTH ARROYO DE DOMINGO BACA. THE ADJACENT TRACTS ARE ALL RESIDENTIAL AND PRESENTLY UNDEVELOPED. THE SITE GENERALLY FALLS FROM SOUTHEAST TO NORTHWEST AT APPROX. 3 TO 4 PERCENT. OFFSITE FLOWS ENTER THE SITE IN THE NORTHEASTERN PORTION OF THE LOT. THE LOT IS ENCUMBERED BY A DESIGNATED FEMA FLOODPLAIN ON THE NORTH END OF THE LOT, AS SHOWN. (A01 ZONE)

THE PROPOSED PLAN IS TO SET THE FINISH FLOOR OF THE RESIDENCE A MINIMUM OF TWO (2) FEET ABOVE THE HIGHEST DESIGNATED LOT ELEVATION ASSOCIATED WITH THE 100 YEAR SURFACE ELEVATION OF THE ARROYO THAT IS NORMAL TO THE AFFECTED RESIDENCE CORNER, AS A SOLUTION TO POTENTIAL FLOODING. HISTORICAL SITE RUN-OFF OUTFALL LOCATIONS WILL REMAIN ESSENTIALLY UNCHANGED AND DIRECTED TO THE NORTH ARROYO DE DOMINGO BACA. DEVELOPED VELOCITIES ARE SHOWN ON THE PLAN. PEAK DISCHARGE OF STORM RUN OFF IS ACCEPTABLE FOR THE SITE GIVEN THE PROJECT LAND USE INTENSITY IS APPROX. ONE (1) DWELLING UNIT PER ACRE, AND LOCATED WITHIN NORTH ALBUQUERQUE ACRES. HYDROLOGIC PROCEDURES AND CALCULATIONS ARE IN ACCORDANCE WITH THE INTERIM DRAINAGE DESIGN CRITERIA FOR BERNALILLO COUNTY, DATED APRIL, 1990.

CALCULATIONS

I. DESIGN CRITERIA

HYDROLOGIC METHODS PER INTERIM DRAINAGE DESIGN CRITERIA FOR BERNALILLO COUNTY, APRIL, 1990.
DISCHARGE RATES: Q = K A..."PEAK DISCHARGE RATES FOR SMALL WATERSHEDS"
VOLUMETRIC DISCHARGE: VOL. = E_{acres} x A

SOIL TYPE: "B" - TIJERAS GRAVELLY FINE SAND LOAM, THB: ZONE 4
P.. = 2.9 IN.
TC = MIN.
DESIGN STORM: 100 YR. - 6 HR., 10 YR. - 6 HR., ( ) = 10 YR. VALUES

II. EXISTING CONDITIONS

A = 0.88 AC. EXCESS PRECIP. = 0.66 IN., (0.27)
I AND TREATMENT 'A' TC = 10 MIN.
PEAK DISCHARGE = 2.26 CFS/ACRE (0.99)
Q = 2.91 CFS Q = 0.88 CFS
VOL. = 2170 C.F. VOL. = 872 C.F.

III. DEVELOPED CONDITIONS

A = 0.88 AC.
DET. LAND TREATMENTS / PEAK DISCHARGE / WEIGHTED EXCESS PRECIP.

		LAND TREATMENT	PEAK DISCHARGE, CFS/ACRE	'E'
PAVEMENT	= 0.02 AC.	D	5.74 (1.91)	2.57 IN. (1.60)
ROOF	= 0.09 AC.	D	5.74 (1.91)	2.57 IN. (1.60)
LSS	= 0.06 AC.	B	3.07 (1.41)	0.85 IN. (0.38)
INDEV.	= 0.72 AC.	A	2.26 (0.99)	0.66 IN. (0.27)
	= 0.89 AC.			

E_{total} = 0.91 IN. (0.44)
Q = 2.44 CFS Q = 1.24 CFS
VOL. = 2940 C.F. VOL. = 1428 C.F.

GENERAL INFORMATION

LEGAL DESCRIPTION:

LOT 20, BLOCK 14, TRACT 2, UNIT 1, NORTH ALBUQUERQUE ACRES, BERNALILLO COUNTY, NEW MEXICO.

PROJECT BENCHMARK:

A STANDARD ACS BRASS TABLET STAMPED "M-22-1, 1985", LOCATED IN THE NORTHWEST QUADRANT OF THE INTERSECTION OF PASEO DEL NORTE, N.E., AND BROWNING AVENUE, N.E. TRIGONOMETRIC ELEV. = 5834.10.

PROPERTY ADDRESS:

ANAHEIM AVENUE, N.E., ALBUQUERQUE, NEW MEXICO.

TOPOGRAPHIC SURVEY:

TOPOGRAPHIC INFORMATION COMPILED FROM SURVEY PERFORMED ON JUNE 11, 1991, BY TECHNICAL MANAGEMENT SERVICES COMPANY.

LEGEND

	FOUND REBAR W/CAP
	NEW SPOT ELEVATION
	EXISTING SPOT ELEVATION
FF	FINISH FLOOR ELEVATION
	NEW CONCRETE
	NEW SWALE
	EXISTING FLOWLINE
	NEW CONTOUR
	EXISTING CONTOUR
	BOUNDARY LINE

I, PHILIP W. CLARK, P.E., DO HEREBY CERTIFY THAT THE FINISH FLOOR ELEVATIONS WERE CONSTRUCTED TO THE GRADES SHOWN HEREON, AND FURTHER ATTEST THAT THE GRADING AND DRAINAGE IS IN SUBSTANTIAL COMPLIANCE WITH THE THE APPROVED PLAN, WITH MINOR REVISIONS CONTAINED HEREIN.

10/31/91
PHILIP W. CLARK, P.E. SEE 6 ABVE N.M.P.E. # 10268

AMAFCA 11/5/91 BERNALILLO COUNTY P.W.D.

I, PHILIP W. CLARK, A PROFESSIONAL ENGINEER LICENSED IN ACCORDANCE WITH THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT I HAVE VISITED THE SITE SHOWN HEREON AND THAT THE CONTOURS SHOWN REPRESENT THE EXISTING GROUND CONDITIONS, AND DO FURTHER CERTIFY THAT NO EARTHWORK OF ANY KIND, NOR ANY OTHER DISTURBANCE OF THE EXISTING GROUND, HAS OCCURRED ON THIS SITE SINCE THE CONTOURS WERE DETERMINED.

10/31/91
PHILIP W. CLARK N.M.P.E. # 10268 DATE

Technical Management Services Co.
Professional Engineering and Surveying Services
Albuquerque, New Mexico 87123
505-292-2786 Fax 505-292-2787

DATE	REVISION	
11/5/91	rev. As-built data	

LOT 20, BLK 14, TRACT 2, UNIT 1
NORTH ALBUQUERQUE ACRES - BER CO.

GRADING & DRAINAGE PLAN

DESIGNED BY PWC DRAWN BY PWC DATE 10-29-91 SHEET 1 OF 1

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

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

R# 24 DATE 3/4/92 OP 21

CITY OF ALBUQUERQUE

This microimage is certified to be a complete and accurate copy of the original as it appears in the files of the **Public Works Department** and was created in the normal course of business.

The photographic process used meets the Basic Microfilm Standards of the National Micrographics Association (MS115-1977)

DIRECTOR

NOTARY PUBLIC
OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires 07/01/92

07/01/92 Bond

NOTE:

PER BERNALILLO COUNTY ORDINANCE NO. 88-46, A PERMIT AND GRADING PERMIT SHALL BE REQUIRED PRIOR TO START OF CONSTRUCTION.

THE NEW PUBLIC WORK DEPT. WILL REQUIRE THE CONSTRUCTION ONLY OF SIDEWALK ALONG THE ANAHEIM AVENUE "PROJECT DESIGN" WHEN REQUESTING BUILDING PERMIT.

NO WALLS, OR STRUCTURES OF ANY KIND, SHALL BE CONSTRUCTED WITHIN THE ITS "PLAN EASEMENT".

D24 C20 B16 A12 CITY OF ALBUQERQUE C D