PLANS/PLATS ON FILE

FILE DESC: D-22 / D004

PLANS/PLATS 3

DRAINAGE INFORMATION SHEET

PROJECT TITLE: _____ ZONE ATLAS/DRNG. FILE #: D22 / D4

LEGAL DESCRIPTION: N.A.A. Tract 2, Unit 2; Block 7, Lot 28

CITY ADDRESS: _____

ENGINEERING FIRM: Marvin Korkan CONTACT: 299-0774

ADDRESS: 1605 Spookman Dr S.E PHONE: _____

OWNER: Allan Dunlap 6300 Torrion N.E CONTACT: _____

ADDRESS: _____ PHONE: _____

ARCHITECT: NA CONTACT: _____

ADDRESS: _____ PHONE: _____

SURVEYOR: SW Surveying CONTACT: _____

ADDRESS: _____ PHONE: _____

CONTRACTOR: NA CONTACT: _____

ADDRESS: _____ PHONE: _____

RECEIVED JUN 24 1987 HYDROLOGY SECTION

PRE-DESIGN MEETING:

X YES

___ NO

___ COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB NO. _____

EPC NO. _____

PROJ. NO. _____

TYPE OF SUBMITTAL:

___ DRAINAGE REPORT

X DRAINAGE PLAN

___ CONCEPTUAL GRADING & DRAINAGE PLAN

___ GRADING PLAN

___ EROSION CONTROL PLAN

___ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

___ SKETCH PLAT APPROVAL

___ PRELIMINARY PLAT APPROVAL

___ SITE DEVELOPMENT PLAN APPROVAL

___ FINAL PLAT APPROVAL

* X BUILDING PERMIT APPROVAL (County)

___ FOUNDATION PERMIT APPROVAL

___ CERTIFICATE OF OCCUPANCY APPROVAL

___ ROUGH GRADING PERMIT APPROVAL

___ GRADING/PAVING PERMIT APPROVAL

___ OTHER _____ (SPECIFY)

* within a floodplain

DATE SUBMITTED: Marvin Korkan

BY: 5/24/87

June 20, 1987

Marvin R. Kortum
1605 Speakman Drive S. E.
Albuquerque, New Mexico 87123
Phone: (505) 299-0774
N.M.P.E. 6519

RECEIVED
JUN 24 1987
HYDROLOGY SECTION

Director, Zoning and Building
Bernalillo County, New Mexico
1 Civic Plaza N. W., Room 5025
Albuquerque, New Mexico 87102

SUBJECT: Flood Plain Study, Lot 28, Block 7, Unit 2, Tract 2, North Albuquerque Acres (12_ _ _ Pino Avenue N. E.)

Gentlemen:

The purpose of this letter is to obtain approval for construction of a residence and outbuilding on Lot 28, Block 7, Unit 2, Tract 2, North Albuquerque Acres.

The present Floodway Map for Bernalillo County, N.M. (Panel 11 of 50) shows the subject lot as partially within the flood plain. (See study attached.)

The attached study shows that there is no danger for residential buildings which may be erected on Lot 28.

Essential findings and factors from the study are as follows:

1. Tramway Blvd. as now constructed provides for total blockage of runoff from east of Tramway for that runoff which earlier would follow the natural arroyo (a branch of Domingo Baca Arroyo) which runs generally parallel to and within the Pino Avenue right-of-way adjacent to Lot 28.

2. Runoff from the 100 year storm would result in about 19 CFS peak flow adjacent to the south property line of Lot 28. This flow would be confined in the present ditch along the north side of the graded dirt road, Pino Avenue, and would be at a depth of about eight inches (8") within that ditch. Pino Avenue is presently maintained by the County of Bernalillo Road Department.

3. Runoff from the 100 year storm would result in about 18 CFS peak flow in the present natural arroyo which crosses the northwest corner of Lot 28. This flow would be confined to the present, well defined arroyo channel, and would be at a depth of about eight inches (8") at peak flow. This peak flow is estimated based on the present flow patterns not being altered, and the area being fully developed within its current A-1 zoning. It should be noted that as the area (Lots 1 to 5) is developed, the runoff from the presently developed townhouses at Tramway Terrace would probably be diverted to flow down RANCHITO Avenue, rather than entering the presently undeveloped lots.

Request that you provide the necessary documentation to remove the designation as flood plain for Lot 28, Block 27, Unit 2, Tract 2, North Albuquerque Acres.

Sincerely,

Marvin R. Kortum
N.M.P.E. 6519

FLOOD PLAIN STUDY

for

LOT 28, BLOCK 7, UNIT 2, TRACT 2,

NORTH ALBUQUERQUE ACRES, MAP D-22

RECEIVED
JUN 24 1987
HYDROLOGY SECTION

PURPOSE:

The purpose of this study is to determine the flood threat for Lot 28, Block 7, Unit 2, Tract 2, North Albuquerque Acres. Lot 28 is shown to be within a 100 year flood plain, as shown on Floodway Map for Bernalillo County, N.M., Panel 11 of 50. Lot 28 is shown to be partially within and north of an arroyo designated as DOMINGO BACA.

GENERAL:

The Floodway Map shows a major realignment of the Domingo Baca Arroyo upstream from Lot 28. The realignment channels the upstream flow into a concrete channel, diverting the flow into the South Domingo Baca Dam by means of a channel about 1000 feet north of Lot 28. There is about 1000 feet of the original Domingo Baca Arroyo which still drains west toward Tramway Blvd. At Tramway Blvd. The runoff from this portion of the arroyo is diverted north along the east side of the Tramway road berm. The only portion of the Domingo Baca Arroyo which still directs runoff past or through Lot 28 is that portion about 1200 feet directly east of Lot 28, with the flows originating at the west side of Tramway Blvd.

DRAINAGE AREA DESCRIPTION:

There are three drainage sub areas which contribute runoff which flows over or past Lot 28. See attached enlargement. Sub area A is defined by a ridge which extends eastward of the north property line of Lot 28, the east boundary being Tramway Blvd., and the north boundary being the south bank of the south ditch of Ranchito Ave. Sub area B is the area south of sub area A, and north of the centerline of Pino Ave. Sub area A also includes the runoff from a portion of Tramway Terrace, a street that is an extension of Pino Ave. east of Tennyson Street. Sub area B includes most of the area which is designated as flood plain. Sub area C is that area south of Sub area B, and west of Tennyson Street. The east portion of Sub area A and B includes about 4 acres of townhouse development, between Tennyson Street and Tramway Blvd. This townhouse development has considerable paved parking and driveways, and roof areas, and is the primary source of runoff for the sub areas. The runoff from that portion of the Tramway Terrace Townhouses which is in Sub area A presently flows west across Tennyson Street to the west ditch, from there down the south ditch of Ranchito Ave. to an old road cut (Marked Tennyson Street on the

Floodway Map). At the old street cut the flow is collected in a depression. Overflow from the depression could flow down the south ditch of Ranchito, away from Lot 28, or into the natural arroyo which crosses the northwest corner of Lot 28. Future development of these now vacant lots will probably direct such flow into the south ditch of Ranchito, then west toward the next arroyo. The runoff from this portion of Tramway Terrace is included in the calculations below. That portion of the townhouse development in Sub area B also flows across Tennyson Street, and then into the natural arroyo. At Lot 28, all flow along the natural arroyo is confined to the north ditch of Pino Avenue. The remainder of the sub areas are one acre or less lots, zoned A-1, and are expected to be developed as low density residential. Presently all but two of the lots are vacant, the developments which are present being houses, barns and corrals.

SOILS:

The soil classifications as determined by the Department of Agriculture soil survey of Bernalillo County, New Mexico are shown on the enlartment and are as listed below. The soils have similar characteristics for runoff computations, all being classified as hydrologic soil Group B, which absorb more water than is typical.

Embudo gravelly fine sand loam 0 to 5 percent slope. (EmB).

Embudo-Tijeras complex, 0 to 9 percent slopes. (EtC).

Tijeras gravelly fine sandy loam 1 to 5 percent slope (TgB).

ANALYSIS:

AREAS (ACRES)	TOWNHOUSES	RURAL	TOTAL	% IMPERVIOUS
A	50% impervious	20% impervious	6.7	31
B	2.4	4.3	6.5	29
C	--	3.2	3.2	20

Rainfall (Plate 22.2 D-1, 6 hour, 100 year storm 2.7 inches.

TIME OF CONCENTRATION:

Use Kirpich formula $Tc = 0.0078 \frac{L^{0.77}}{S^{0.385}}$

Where L = length of drain basin, and S = slope of basin

	LENGTH	SLOPE	Tc
A	1250	.0448	6.25
B	1250	.0448	6.25
C	300	.045	[illegible]

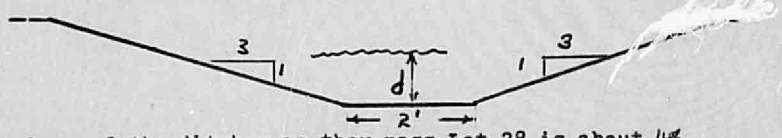
Since Tc is less than 10 minutes, use Intensity Factor for 10 minutes I = 2.15 (Plate 22.2, D-2).

RATIONAL FORMULA 'C'FACTOR: (Plate 22.2, C-1) Q = CI A

	C	I	R	A	Q
A	.48	2.15	2.7	6.7	18.7
B	.47	2.15	2.7	6.5	17.7
C	.43	2.15	2.7	3.2	8.0

DITCH FLOW:

The configuration of the ditches on either side of Pino Avenue and the natural arroyo is approximately as shown.



The slope of the ditches as they pass Lot 28 is about 4%. Using Manning's formula, with an M factor of .022 for a gravelly sand surface, the flows for various depths are as follows:

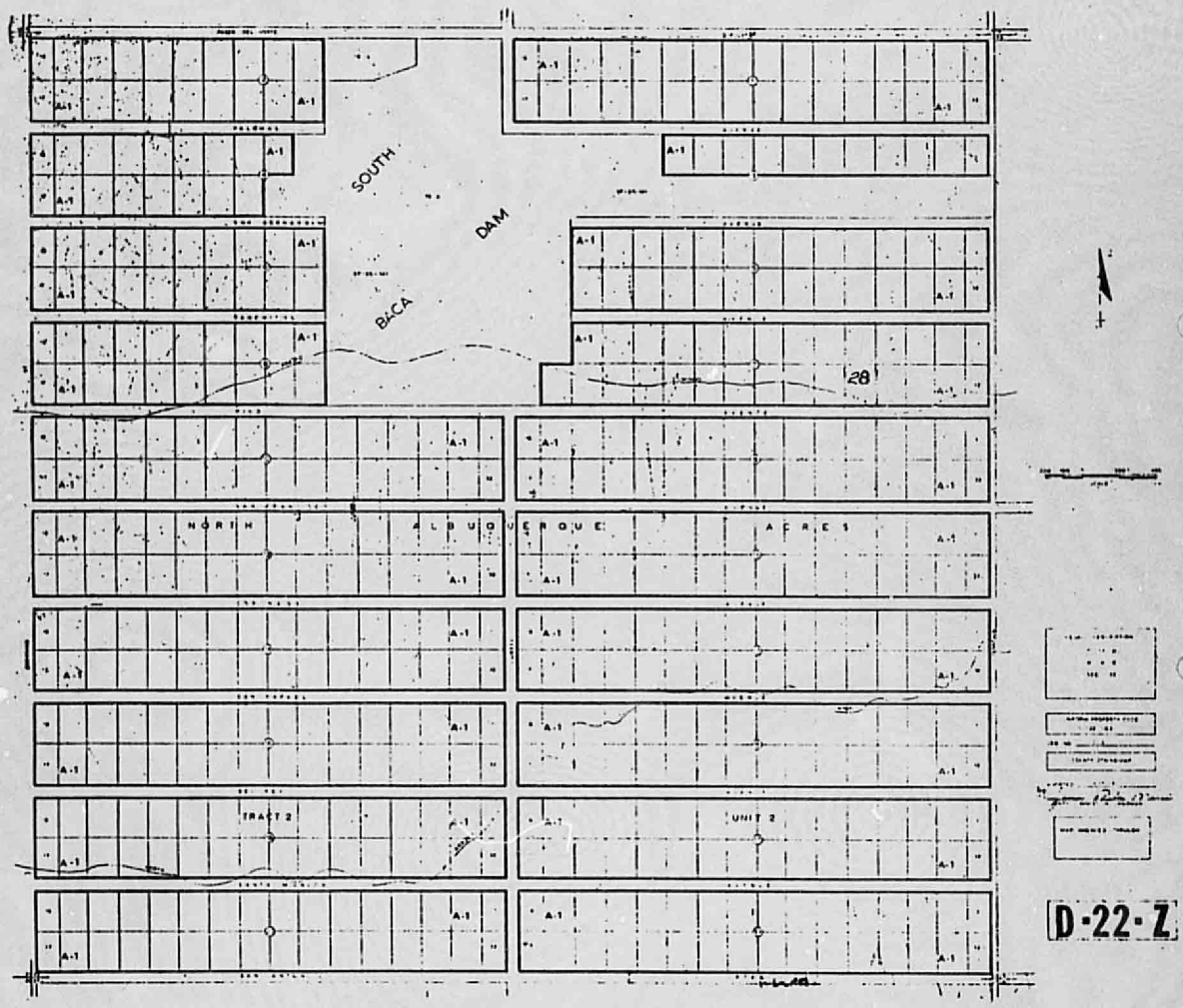
$$V(FPS) = \frac{1.486}{n} R^{2/3} S^{1/2} \; ; \quad Q = VA \; ; \quad R = \frac{\text{AREA}}{\text{WETTED PERIMETER}}$$

d FT	W.P. FT	AREA FT^2	R	$R^{2/3}$	V FPS	Q CFS
.3	3.8	0.87	.229	.374	5.05	4.40
.4	4.4	1.28	.29	.438	5.92	7.57
.5	5.0	1.75	.35	.50	6.75	11.82
.6	5.6	2.28	.41	.55	7.43	16.94
.7	6.2	2.87	.46	.60	8.10	23.26
.8	6.8	3.52	.52	.65	8.78	30.90

CONCLUSIONS:

There is no danger to constructed buildings on lot 28, block 7, unit 2, tract 2, North Albuquerque Acres since the depth of water in the roadside ditch will be about 8 inches due to runoff from the 100 year flood.

POOR QUALITY OF THE ORIGINAL DOCUMENT.



D-22-Z

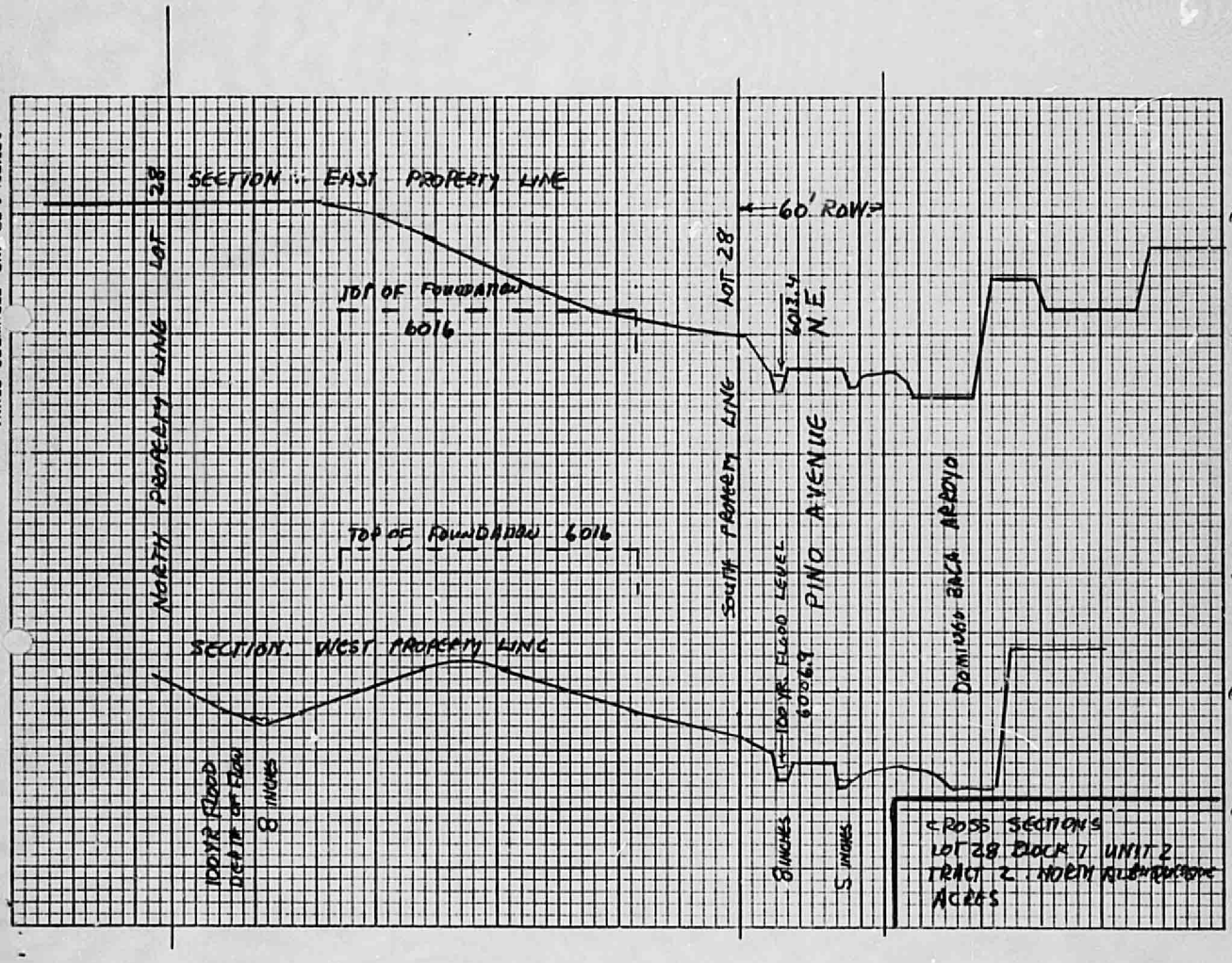
ATTACHMENT 1

PLAN/PLATS

ON

FILE

ATTACHMENT 4



SPEIDEL & CO., INC., FERNWOOD, SENNA.
10X10 TO THE INCH 5TH LINE ACCENTED

BOARD OF COUNTY COMMISSIONERS
PATRICK J. PADILLA, CHAIRMAN
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DISTRICT 2
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State of New Mexico

ONE CIVIC PLAZA, N.W.
ALBUQUERQUE, NEW MEXICO 87102

ALVIN J. CAMPBELL, SHERIFF
JAMES B. LEWIS, TREASURER
DOLORES C. WALLER, COUNTY CLERK
JACK H. DARLING, ASSESSOR
ROBERT H. SCOTT, PROBATE JUDGE

June 30, 1987

Marvin Kortum
1605 Speakman Drive, SE
Albuquerque, New Mexico 87123

RE: DRAINAGE PLAN FOR NORTH ALBUQUERQUE ACRES, TRACT 2, UNIT 2, BLOCK 7, LOT 28 (L-22/D4) RECEIVED JUNE 24, 1987

Dear Mr. Kortum:

I have reviewed the referenced plan and forward the following comments. Please finalize the following prior to Building Permit release:

1. Please coordinate your work in Pino Avenue with Mr. John Taschek of the Bernalillo Road Department.
2. Please contact Mr. Dan Sabo of AMAFCA regarding the floodplain dedications.
3. Please include a vicinity map on the drawing.

If you should have any questions, call me at 768-2650.

Cordially,

Carlos A. Montoya, P.E.
City/County Floodplain Administrator

CAM/bsj

B. H. SWINBURNE, CHAIRMAN
WILLIAM V. HEREFORD, VICE-CHAIRMAN
FRANCES McCOY, SECRETARY-TREASURER
R. WARD HUNNICUTT, DIRECTOR
REX FUNK, DIRECTOR

RICHARD E. LEONARD
EXECUTIVE ENGINEER

Albuquerque
Metropolitan
Arroyo
Flood
Control
Authority

P. O. BOX 25851 - ALBUQUERQUE, N. M. 87125
TELEPHONE 884-2215

RECEIVED
AUG 25 1987
HYDROLOGY SECTION

July 14, 1987

Marvin R. Kortum
1605 Speakman Drive SE
Albuquerque, New Mexico 87123

Subject: Drainage Plan Lot 28, Block 7, Tract 2 Unit 2
North Albuquerque Acres

Dear Sir:

I have reviewed your drainage plan and concur that a drainage easement is not required.

Sincerely,

Dan Sabo

Dan Sabo
Drainage Engineer

cc: Carlos A. Montoya

BOARD OF COUNTY COMMISSIONERS
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County of Bernalillo

State of New Mexico

2400 BROADWAY, S.E.
ALBUQUERQUE, NEW MEXICO 87102

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JOSEPH F. THOMSON, ASSESSOR
ROBERT H. SCOTT, PROBATE JUDGE

July 30, 1987

RECEIVED
AUG 25 1987
HYDROLOGY SECTION

Mr. Marvin R. Kortum
1605 Speakman Drive S.E.
Albuquerque, New Mexico 87123

Dear Mr. Kortum:

The Bernalillo County Public Works Department has reviewed your submittal for North Albuquerque Acres, Tract 2, Unit 2, Block 7, Lot 29. We have the following comments regarding the drainage plan.

1. Calculations now show ditch at lot (north side of Pino Avenue) to run 8" deep at Qp100. Scaling from contours on plan indicates that the ditch bankfull at the edge of the road is 6" deep. (Note Engineer's design cross section does not match contours). Also, no account is taken of headwater depth required to pass design flow through culvert.

   The design Q may well flow in and across Pino Avenue, depending partly on culvert characteristics.

2. The culverts are not adequately specified. Culverts (apparently) are not sized by any design methods.

3. The east culvert is located off flow line. Invert elevations are not shown for either culvert. Since flow may go over the narrow (22') roadway, the ditch should be graded more toward the property line.

4. Finished contours shown make no provision for the height of the culvert or any required cover, i.e., continuous won't work as drawn.

Please contact Tucker Green, Drainage Engineer (843-6120) at the Public Works Department with any questions.

Sincerely,

John Taschek
Urban Planner

JT:mm

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DISTRICT 3
ORLANDO VIGIL, VICE CHAIRMAN
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RON OLGUIN, COUNTY MANAGER

County of Bernalillo

State of New Mexico

2400 BROADWAY, S.E.
ALBUQUERQUE, NEW MEXICO 87102

ALVIN J. CAMPBELL, SHERIFF
ROBBIN BISHOP, TREASURER
GLADYS M. DAVIS, COUNTY CLERK
JOSEPH F. THOMSON, ASSESSOR
ROBERT H. SCOTT, PROBATE JUDGE

August 3, 1987

RECEIVED
AUG 25 1987
HYDROLOGY SECTION

Mr. Marvin Kortum
1605 Speakman Drive S.E.
Albuquerque, New Mexico 87123

Re: Lot 28, Block 7, Tract 2, Unit 2, North Albuquerque Acres (Road Map D-22)

Dear Mr. Kortum:

Per your telephone conversation with our Engineering Staff this morning, and taking into consideration our letter to you of July 30, 1987, Bernalillo County has a responsibility to maintain the County roads and the drainage swales that are in the right-of-ways. We agree with your 100 year design criteria for flow.

If a culvert is placed in a driveway, we normally specify a minimum diameter of 18", although the actual size should be determined by an engineering analysis. It is acceptable for a driveway to retain the normal dip section. Should you wish to retain the existing dip section at the driveway while construction proceeds, we have no objection.

Per our Planning Department, there are no plans to change Pino Avenue at this site from an unpaved residential street.

Sincerely,

John Ramsey

John Ramsey
Public Works Director

JR:TG:mm

DRAINAGE INFORMATION SHEET

PROJECT TITLE: NORTH ALBU. ACRES TRACT 2 UNIT 2 BLOCK 7 LOT 28 ZONE ATLAS/DRNG. FILE #: D-22/D-4

LEGAL DESCRIPTION: NORTH ALBUQUERQUE ACRES, TRACT 2 UNIT 2 BLOCK 7 LOT 28

CITY ADDRESS: 12 OXX PINO AVE NE

ENGINEERING FIRM: MARVIN R KORTUM CONTACT:

ADDRESS: 1605 SPEARMAN DR SE ALBUQUERQUE N.M. 87123 PHONE: 299-0774

OWNER: ALLAN DUNLAP CONTACT:

ADDRESS: PHONE:

ARCHITECT: N/A CONTACT:

ADDRESS: PHONE:

SURVEYOR: S.W. SURVEY CONTACT:

ADDRESS: 333 LOMAS NE ALBUQUE N.M. PHONE:

CONTRACTOR: NA CONTACT:

ADDRESS: PHONE:

RECEIVED AUG 25 1987 HYDROLOGY SECTION

PRE-DESIGN MEETING:

X YES

___ NO

___ COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB NO. N/A

EPC NO. N/A

PROJ. NO. D-22/D-4

TYPE OF SUBMITTAL:

___ DRAINAGE REPORT

___ DRAINAGE PLAN

___ CONCEPTUAL GRADING & DRAINAGE PLAN

X GRADING PLAN REVISION 24 AUG 1987

___ EROSION CONTROL PLAN

___ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

___ SKETCH PLAT APPROVAL

___ PRELIMINARY PLAT APPROVAL

___ SITE DEVELOPMENT PLAN APPROVAL

___ FINAL PLAT APPROVAL

✓ BUILDING PERMIT APPROVAL

___ FOUNDATION PERMIT APPROVAL

___ CERTIFICATE OF OCCUPANCY APPROVAL

___ ROUGH GRADING PERMIT APPROVAL

___ GRADING/PAVING PERMIT APPROVAL

___ OTHER _____ (SPECIFY)

DATE SUBMITTED: 25 AUGUST 1987

BY: M.R KORTUM

August 25, 1987

Marvin R. Kortum
1605 Speakman Drive S. E.
Albuquerque, New Mexico 87123
Phone: (505) 299-0774
N.M.P.E. 6519

RECEIVED
AUG 25 1987
HYDROLOGY SECTION

County of Bernalillo, New Mexico
One Civic Plaza N. W.
Albuquerque, New Mexico 87102

ATTENTION: Mr. Carlos Montoya
City/County Flood Plain Administrator

REFERENCE: Drainage Plan for NORTH ALBUQUERQUE ACRES, TRACT 2, UNIT 2, BLOCK 7, LOT 28 (D-22/D-4)

Dear Mr. Montoya:

This letter is in response to your letter of June 30, 1987 on the above subject.

1. The work within Pino Avenue is still being coordinated with the County Road Department. I request that the site grading and drainage plan be approved for building permit release, with the work within Pino Avenue to be in accord with subsequent instruction from the Bernalillo County Road Department.

2. AMAFCA does not require a drainage easement.

3. The vicinity map is now included on the grading plan.

Sincerely,

Marvin R. Kortum

August 25, 1987

Marvin R. Kortum
1605 Speakman Drive S. E.
Albuquerque, New Mexico 87123
Phone: (505) 299-0774
N.M.P.E. 6519

RECEIVED
AUG 25 1987
HYDROLOGY SECTION

Bernalillo County Road Department
2400 Broadway S. E.
Albuquerque, New Mexico 87102

ATTENTION: Mr. John Taschek

REFERENCE: Drainage plan for NORTH ALBUQUERQUE ACRES, Tract 2, Unit 2, Block 7, Lot 28 (Map D-22), (12000 Block of Pino Ave. N.E.)

Dear Mr. Taschek:

By your letters of July 30, 1987 and August 3, 1987, you have provided guidance concerning access to Lot 28 from Pino Ave. N.E. Two alternatives were presented, essentially, as follows:

1. Drive through the ditch on an interim basis, taking care not to destroy the existing cross flow.

2. Place an appropriate drainage structure, such as a culvert, sized to pass the 100 year design flow.

Attached is a draft of the design for the permanent drainage structures. The following criteria were used to develop the draft design:

a. Centerline of drainage ditch is relocated to be 8 feet from the north edge of the right of way.

b. a 24 inches diameter round corrugated metal pipe is required to pass the design flow of 17.7 cfs, with a three feet headwater depth.

c. One foot or more of cover is provided over the corrugated metal pipe.

d. An additional three feet of shoulder to the road is provided. Side slope of 3 horizontal to 1 vertical is provided from the road shoulder to the ditch invert.

The owner of lot 28 has indicated that he will grade the ditch as necessary to place the culverts, but there are other problems, as stated below:

1. Stopping the ditch at the west property line of lot 28 will create a low basin in the ditch flow channel, this basin eventually filling with sediment to a depth which will block flow through the west culvert. Who will have responsibility for keeping the basin and culvert clean?

2. The alternative of extending the ditch at the required depth past the property to the west of lot 28 will necessitate a crossing structure for entry to the adjacent lot. Will the county provide direction to that lot owner concerning such a requirement? Presently, the adjacent lot is entered directly from the Pino Ave. roadway, there being only a very shallow swale at the ditch line.

3. Where should the excess earth materials removed from the deeper drainage ditch be placed? Some of the material is shown as being used to widen the existing road surface.

There are other alternatives which would permit a less deep drainage ditch, specifically, the use of a portland cement concrete or timber box culvert. Either of those alternatives would be more expensive, and probably not recoverable in the event of a change in the road design.

I request your comments on the above discussed considerations.

Sincerely,

Marvin R. Kortum

FILE COPY

BOARD OF COUNTY COMMISSIONERS
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ORLANDO VIGIL, MEMBER
DISTRICT 2
LENTON MALRY, MEMBER
DISTRICT 3
PATRICIA H. CASSIDY, MEMBER
DISTRICT 4
MARION M. COTTRELL, MEMBER
DISTRICT 5
ALEX ABEYTA, JR., COUNTY MANAGER

County of Bernalillo

State of New Mexico

ONE CIVIC PLAZA, N.W.
ALBUQUERQUE, NEW MEXICO 87102

ALVIN J. CAMPBELL, SHERIFF
JAMES B. LEWIS, TREASURER
DOLORES C. WALLER, COUNTY CLERK
JACK H. DARLING, ASSESSOR
ROBERT H. SCOTT, PROBATE JUDGE

September 21, 1987

Dunlap house
BP 87-1063

Marvin Kortum
1605 Speakman Drive, SE
Albuquerque, New Mexico 87123

RE: DRAINAGE PLAN FOR NORTH ALBUQUERQUE ACRES, TRACT 2, UNIT 2
BLOCK 7, LOT 28 (D-22/D4) RECEIVED AUGUST 25, 1987

Dear Mr. Kortum:

I have reviewed the referenced plan and forward the following comment:

- The draft of the roadside ditch plan should be incorporated into the Surface Grading and Drainage Plan. Also, please update me on approvals of the County Public Works Department.

If you should have any questions, call me at 768-2650.

Cordially,

Carlos A. Montoya, P.E.
City/County Floodplain Administrator

CAM/bsj

Marvin R Kortum
1605 Speakman Dr. SE
Albuquerque, New Mexico 87123
(505) 299-0774
N.M.P.E. 6519

RECEIVED
NOV 19 1987
HYDROLOGY SECTION

November 18, 1987

County of Bernalillo, New Mexico
One Civic Plaza NW
Albuquerque, New Mexico 87102

ATTENTION: Mr. Carlos Montoya
City/County Flood Plain Administrator

REFERENCE: Drainage Plan for NORTH ALBUQUERQUE ACRES, Tract 2, UNIT 2, BLOCK 7, LOT 28 (D-22/D-4)

Dear Mr. Montoya:

This letter is in response to your letter of September 21,1987 on the above subject.

By letter dated October 30, 1987, the County of Bernalillo Public Works Director provided guidance concerning culverts and ditch grading for access to the referenced property. A copy of the letter is attached.

Also attached is a revised drawing which shows the approved culverts and ditch grading.

Please approve this remaining portion of the plan that was not previously approved.

Sincerely,

Marvin R Kortum

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Lot 28 Block 7, Unit 2, Tract 2 NORTH ALBUQUERQUE ACRES ZONE ATLAS/DRNG. FILE #: D-22/D-4

LEGAL DESCRIPTION: Lot 28, Block 7, Unit 2, Tract 2, N. ALBUQUERQUE ACRES

CITY ADDRESS: 12000 block, Pino Ave. NE

ENGINEERING FIRM: Marvin R Kortum CONTACT: Marvin R Kortum

ADDRESS: 1605 Speakman Dr. SE PHONE: 299-0774

OWNER: Alan Dunlap CONTACT:

ADDRESS: 8808 Camino Del Sol NE PHONE:

ARCHITECT: CONTACT:

ADDRESS: PHONE:

SURVEYOR: CONTACT:

ADDRESS: PHONE:

CONTRACTOR: CONTACT:

ADDRESS: PHONE:

RECEIVED NOV 19 1987 HYDROLOGY SECTION

PRE-DESIGN MEETING:

X YES

___ NO

___ COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB NO. ___

EPC NO. ___

PROJ. NO. ___

TYPE OF SUBMITTAL:

X DRAINAGE REPORT

___ DRAINAGE PLAN

___ CONCEPTUAL GRADING & DRAINAGE PLAN

___ GRADING PLAN

___ EROSION CONTROL PLAN

___ ENGINEER'S CERTIFICATION

___ Revision

CHECK TYPE OF APPROVAL SOUGHT:

___ SKETCH PLAT APPROVAL

___ PRELIMINARY PLAT APPROVAL

___ SITE DEVELOPMENT PLAN APPROVAL

___ FINAL PLAT APPROVAL

X BUILDING PERMIT APPROVAL

___ FOUNDATION PERMIT APPROVAL

___ CERTIFICATE OF OCCUPANCY APPROVAL

___ ROUGH GRADING PERMIT APPROVAL

___ GRADING/PAVING PERMIT APPROVAL

___ OTHER ___ (SPECIFY)

DATE SUBMITTED: November 18, 1987

BY: Marvin R Kortum

FILE COPY

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

Mayor
Ken Schultz

November 27, 1987

Mr. Marvin Kortum
1605 Speakman Drive, SE
Albuquerque, NM 87123

RE: DRAINAGE PLAN FOR NORTH ALBUQUERQUE ACRES, TRACT 2, UNIT 2, BLOCK 7, LOT 28 (D22-D4) (BP87-1063) RECEIVED NOVEMBER 19, 1987

Dear Mr. Kortum:

The above referenced plan dated November 18, 1987 is approved in compliance with the Floodplain Ordinance. Upon completion of the project, the owner's engineer needs to certify finish floor elevations.

Sincerely,

Carlos A. Montoya

Carlos A. Montoya
Utility Development/Hydrology Section
Public Works Dept./Engineering Group

CAM/trs
(WP+475)

PLAN/PLATS

ON

FILE