Jerry Ward 247-2631 7-13-93 University & Gibson Ditch between UVMHP & Gibson Draw Gibson Ditch not maintained over flow into Mobile Home Park Hestor University Village Mobile Home Park 1-15/08 Talked to Glenn Vurgensen about cleaning ditch.
Glenn said he would
take a look at the
ait ch & see what he
can do. I told MrsWand this, the same day.

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FILE COPY



City of Albuquerque P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

MAYOR

KEN SCHULTZ

CHIEF DEPUTY CAO DEPUTY CAO ADIAM:STRATIVE OFFICER PUBLIC SERVICES PLANNING DEVELOPM: MT

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GENE ROMO FRANK MARTINEZ BILL MUELLER

April 21, 1988

Jeff Mortensen, P.E. Tom Mann Associates, Inc. 811 Dallas, NE Albuquerque, New Mexico 87110

RE: CONCEPTUAL GRADING & DRAIMAGE PLAN FOR UNIVERSITY VILLAGE SUBMITTED APRIL 4, 1988, FOR SITE DEVELOPMENT PLAN APPROVAL (L15/D8)

Dear Mr. Mortensen:

Your submittal, referred to above, is approved for Site Development Plan sign-off by the Hydrology Section.

Before we can approve a Building Permit for any phase, however, we will need a drainage easement for the arroyo which borders the site on the north.

When sizing the storm drain to replace the arroyo, please use the guidelines found in the May, 1986, paper by Richard Heggen, "Closed Conduit Conveyance of Arroyo Flow". If you do not have a copy of this paper, we will gladly provide

When making the street capacity calculations, please check that the depth of flow for the 10 year storm runoff does not exceed 0.5' and that the product of the depth and the velocity is less than 6.5, per the DPM.

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

G. Stuart Reeder, P.E. C.E./Hydrology Section

xc: owner architect

AN EQUAL OPPORTUNITY EMPLOYER :

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DRAINAGE INF	URMATION SHEET
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ADDRESS: 811 DALLAS NE	
DINER BICHARD CHESS	
	CONTACT: ARCHITECT
ADDRESS:	PHONE:
ARCHITECT: LAWRENCE GARCIN	
ADDRESS: 10200 Menaul NE	PHONE: 292-7229
SURVEYOR: W/A #215	871120NTACT:
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City of Albuquerque P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

HYDROLOGY SECTION 123 Central NW, Albuquerque, NM 87102 (505) 786-7844

September 15, 1986

Leonard P. Utter Tom Mann & Associates, Inc. Bil Dallas, NE Albuquerque, New Mexico B7110

RE: REVISED CONCEPTUAL GRADING & DRAINAGE FLAN SUBMITTAL OF UNIVERSITY VILLAGE - RECEIVED AUGUST 29, 1986 FOR SITE DEVELOPMENT AGREEMENT (L-15/D8)

The above referenced submittal, revised August 29, 1986, is approved for Site Development Plan.

At time of Building Permit request, a detailed Drainage Plan will be required. An interim drainage scheme to discharge Basin 2 into the existing arroyo must be included with this detailed Drainage Plan.

If you have any questions, call me at 766-7644.

Cordially, Roger A. Breen, P.E. C.E./Hydrology Section

RAG/bsj

Walter Nickerson, P.E., City Engineer

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PUBLIC WORKS DEPARTMENT

ENGINEERING GROUP

Telephone (505) 768-2500

- AN EQUAL OPPORTUNITY EMPLOYER

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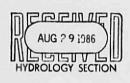
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00 811 DALLAS, N.E. • ALBUQUERQUE • NEW MEXICO • 87110 • 505 265-5611





61001 August 28, 1986

(C)

Mr. Roger A. Green Hydrology Section City of Albuquerque P. O. Rox 1293 Albuquerque, NM 87103

Conceptual Grading & Drainage Plan (L15/D8)

Dear Mr. Green:

I have reviewed your comments on the above referenced project and have addressed the comments as follows:

- The street capacity for the 10 year storm runoff allows on free driving lane as shown in the calculations.
- There is an existing depressed sidewalk channel located on the west side of University Boulevard N.E. which discharges directly into the arroyo which is the outfall for the Basin. The calculations have determined adequate capacity for the 100-year storm runoff.

Should you have any questions or comments concerning any aspect of this project, please do not hesitate to call.

Sincerely,

TOM MANN & ASSOCIATES, INC.

Legnard P. Utter Project Engineer

LPU:djj

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City of Albuquerque P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

HYDROLOGY SECTION 123 Central NW, Albuquerque, NM 87102 (505) 768-7644

August 14, 1986

Jeff Hartensen, F.E. Tom Mann & Associates, Inc. 811 Dallas, NE Albuquerque, New Hexico 57110

RE: CONCEPTUAL GRADING & DRAINAGE PLAN SUBMITTAL OF UNIVERSITY VILLAGE - RECEIVED JULY 28, 1986 FOR SITE DEVELOPMENT PLAN APPROVAL (L-15/DE)

- Provide street capacity calculations for University Boulevard to see if ordinance criteria, requiring one free driving lane, is being net with the developed discharge from University Village.
- Provide capacity of existing store drain inlets in University Boulevard to direct street flows into the arroyo.

If you have any questions, call me at 766-7644.

Koger L. Steen, PE Roger A. Green, P.E. C.E./Hydrology Section

RAG/bsj

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PUBLIC WORKS DEPARTMENT

Walter Nickerson, P.E., City Engineer

ENGINEERING GROUP

Telephone (505) 768-2500

- AN EQUAL OPPORTUNITY EMPLOYER =

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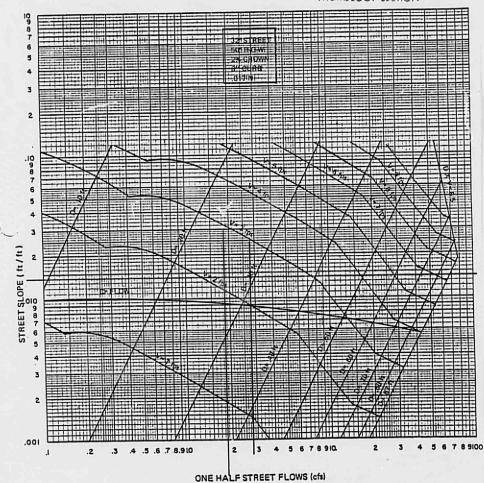
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STREET CAPACITY





REV 3-83

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PLATE 22.3 D-1

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CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION/DESIGN HYDROLOGY SECTION

CONFERENCE RECAP

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FRED LUTHY, JR. VICE-CHAIRMAN HICHARD H. CLOUGH, SEC.-TREAS, WILLIAM V. HEREFORD, DIRECTOR FRANCES MCDDY, DIRECTOR



Albuquerque Metropolitan Arroyo Flood Control Authority

TELEPHONE 268-4519

March 26, 1975

Mr. Hans Coucheron-Aamot, P.E. Molzen-Corbin & Associates, Inc. Post Office Box 3632 Albuquerque, New Mexico 87110

Dear Mr. Coucheron-Aamot:

We have reviewed the drainage report for the University Village Mobile Home Park, Phase III, which you transmitted by your letter of March 25, 1975. The report meets the requirements of Drainage Resolution #1972-2 provided that the most northerly lots of the most northerly torrace. We indicated by an actorisk on the attrached Resolution #19/2-2 provided that the most northerly lots of the most easterly terrace, as indicated by an asterisk on the attached drainage drawing, not be occupied or developed until such time as the channel along the northerly property line has been stabilized so that the danger of erosion, which would cause cave-offs and endanger mobile homes placed on those two sites, has been allminated.

It will also be necessary for your client to construct the catchment basins and provide the necessary rundowns indicated in your plans prior to occupancy of any portion of this phase of the development.

om 1016 lew John B. Robert Executive Engineer

Enclosure

cc: City of Albuquerque Planning Dept.
"""
Engineering Dept.
"""
Building & Inspection.

0000 0000 IS86,

DRAINAGE REPORT

FOR

UNIVERSITY VILLAGE, PHASE III

MOBILE HOME PARK

March 24, 1975

SCOPE: This report presents a proposed drainage plan for the University Village, Phase III, Mobile Home Park.

EXISTING CONDITIONS: The area proposed for development is presently raw land with sparse grass. The land has been terraced such that the present run-off goes to the arroyo along the north side of the property, except that the run-off from the small area (approximately 0.9 acres) projecting from the southwest corner goes to Eastern Avenue. The run-off from this area in a developed condition was included in the Drainage Report for University Village, Phase II (April 1973).

There are no significant areas contributing run-off from outside the property. Run-off from the east is intercepted by Buena Vista Avenue, and the existing mobile home park area to the south drains to Eastern Avenue.

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PROPOSED PLAN:

It is proposed to divide the property into four drainage areas as shown on the attached drainage plan. Run-off from Area I, II, and III will be collected in drop inlets and conducted to the existing arroyo in corrugated metal pipes. The run-off from Area IV will drain to Eastern Avenue as shown in the Drainage Report for University Village Phase II.

COMPUTATIONS:

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The "rational formula", for run-off determination was used as follows:

Q = C I A, in which:

Q = run-off in cubic feet per second

C = run-off coefficient

I = rainfall intensity in inches per hour

A = watershed area in acres

The coefficient, C, was determined as follows:

Roofs and paved areas 60% @ 0.90 = 0.54

40% @ 0.15 = 0.06= 0.60

Lawn area

The rainfall intensity was determined by using the 100 year storm intensity-duration curve from Chart No. 1 of "Master Plan of Drainage, City of Albuquerque, New Mexico, and Environs, 1963", by Gordon Herkenhoff and Associates.

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The times of concentrations, etc. for the purpose of determining rainfall intensities were obtained from D. L. Yarnell's nomograph for overland flow time as published in Seelye's "Data Book for Civil Engineers".

The results of the computations were tabulated as follows:

Area	С	tc. (Min.)	I (in/hr.)	A (acres)	Q (cfs.)
1	0.6	7.25	5.4	3.3	10.7
II	0.6	8.1	5.4	3.3	10.7
III	0.6	8.75	5.4	3.7	12.0
IV	0.6	4.0	5.4	0.9	2.9

A City of Albuquerque, Type D drop inlet will require a head of H ft. to accept 12.0 cfs.

$$Q = 2/3 C A \sqrt{2gH}$$

$$12 = 2/3 \times 0.6 \times 4.0 \sqrt{64.4 \text{ H}}$$

$$H = 0.87$$

CONCLUSIONS AND RECOMMENDATIONS:

The proposed plan will result in some additional run-off due to the large percentage of impervious area in the development. However, more than 90% of the run-off will be discharged into the

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existing arroyo along the north side, and the increased flow, approximately 20 cfs., is well within the capacity of the arroyo.

The unpaved areas of the development should be graded to minimal or no slope where possible to provide as much water retention and infiltration as possible.

The arroyo along the north side of the property was investigated as shown in Appendix A to this report.

The expected flow from a 100 year storm is well within the capacity of the arroyo. However, the large quantities at high velocities that would be discharged from the 54" diameter storm sewer at the northeast corner of the property would probably cause considerable bank caving and a dangerous situation at the outlet and immediately downstream.

The Owner is currently negotiating with the City of Albuquerque for the construction of facilities to solve this potential problem. It is strongly recommended that the two northernmost mobile home sites on the top level of the park be left vacant until such construction has been completed.

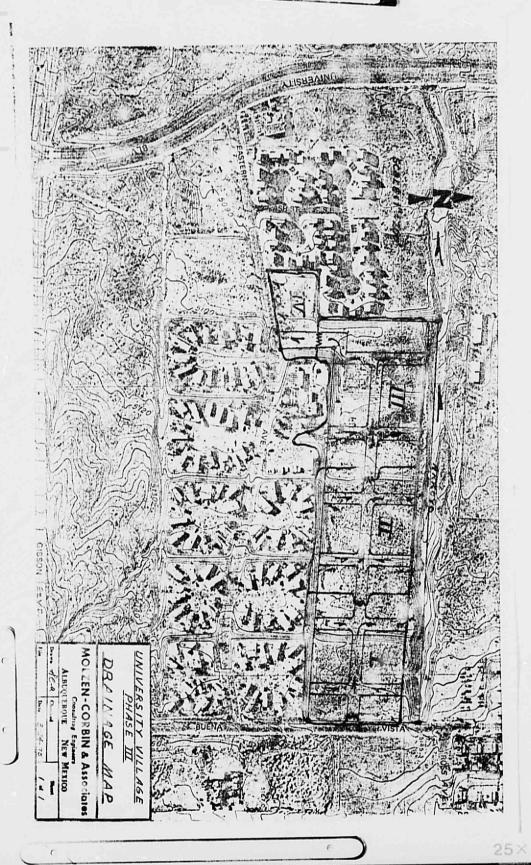
Albert D. Corbin, P.E. MOLZEN-CORBIN & ASSOCIATES

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APPENDIX A

DRAINAGE REPORT

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FOR

UNIVERSITY VILLAGE, PHASE III

ARROYO ALONG NORTH SIDE OF THE PROPERTY:

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The watershed and storm sewer system contributing to flows in the arroyo along the north side of University Village is shown on the attached part copies of "Albuquerque East" USGS quadrangle map and City of Albuquerque storm sewer map.

The overland flow from Area II is cut off by Gibson Boulevard, however, as much as 130 c.f.s. could be picked up by the storm sewer from this area.

The drainage from Area I was determined by the "rational formula", Q = CIA, in which C was taken as 0.5 (future fully developed conditions); $I_{1\overline{0}0}^{=4.2}$ in/hr. was obtained from Chart No. 1 of "Master Plan of Drainage, City of Albuquerque, New Mexico and Environs, 1963" by Gordon Herkenhoff and Associates, using a T_C of 20 minutes; and the area, 270 acres, was planimetered from the quadrangle map.

Flow from Area I = 0.5 x 4.2 x 270 - approximate 570 c.f.s.

Flow from Area II = - approximate 130 c.f.s.

Total flow to arroyo @ Buena Vista Dr.-approximate 700 c.f.s.

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The least capacity of the arroyo occurs west of University Boulevard where it runs through natural sandy ground with a channel bottom of 25'[±] and 5' to 6' vertical banks. The capacity here was determined by Manning's formula as follows:

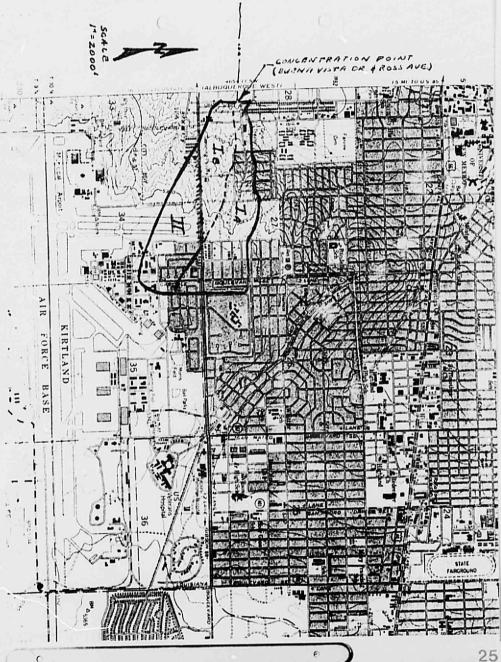
$$Q = A \frac{1}{n} R^{2/3} S^{1/2} = (25 \times 5) \frac{1}{0.025} \frac{25 \times 5}{(25 + 10)} {}^{2/3} \sqrt{0.022}$$
= 1,733 c.f.s.

A flow of 1,000 c.f.s. would produce a depth of flow of 3.5 ft., leaving a freeboard of approximately 2 ft.

From University Boulevard approximately 1600 ft. eastward, the arroyo bottom varies from 25 to 40 feet in width and the banks vary from nearly vertical to approximately 4:1 sideslope with a least height of 6 to 7 ft. The last 5-600 ft. from here to the existing concrete rundown at Buena Vista Drive has recently been filled in from both sides with earth and rubble such that at present only a V-ditch with 1:1 sideslopes and banks varying from 15 to 25 ft. high remains.

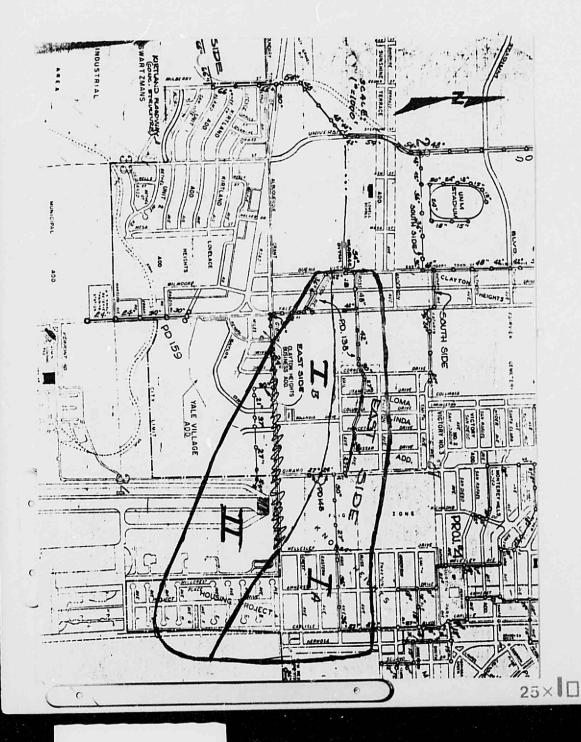
The 54" diameter outlet from the storm sewer system could discharge 350-400 c.f.s. of the total 700 c.f.s. runoff from the 100 year storm at velocities up to 25 fps.

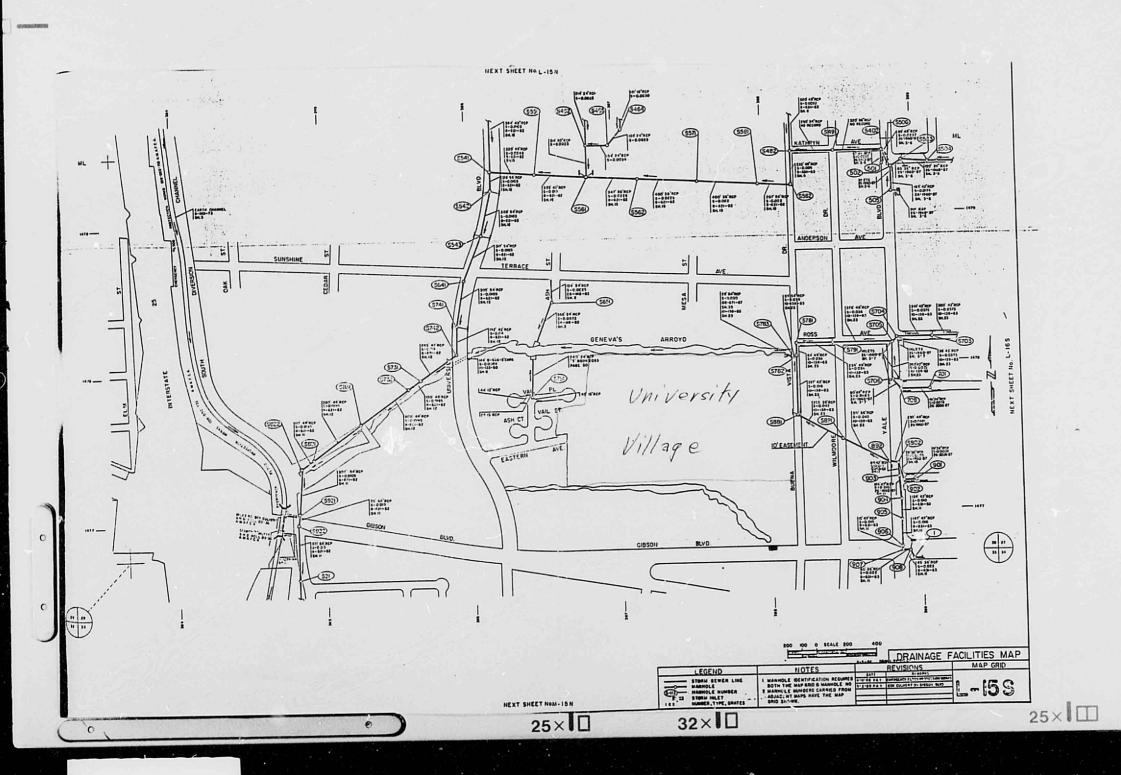
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