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

The second secon

PRE-DESIGN CONFERENCE RECAP

HYDROLOGY SECTION PROJECT NO.: 2-9	DATE: 7/2/85
	DRB:
PLANNING DIVISION NOS. EPC:	
SUBJECT: Mountain View	Mount Mobile home tark
LEGAL DESCRIP. : Redatting of	area bother 98 1574th
Sunset Gardens	Rd of Allen south of Centro
APPROVAL REQU	ESTED
PRELIMINARY PLAT	A FINAL PLAT
X SITE DEVELOPMENT PLAN	BUILDING PERMIT
ROUGH G	RADING
WHO:	REPRESENTING:
ATTENDANCE: Philip Clark	Espen Huston & HSSIX. Inc
Billy Goolsby	City
Conceptual Drainage Plan/Report requ Site Development Plan sign-off.	ired for Preliminary Plat and/or
Approved Drainage Plan/Report requir	ed for Final Plat and/or Build-
ing Permit sign-off.	
Subdivision Improvements Agreement of	or Financial Security required.
FINDINGS: O Discharge to be	controlled due to
flording downstream 2 as	interim until downstream
improvements are made Q1	ischarge to be 0.5%
per acre or as determined	by analysis (3 Discharge
across othe other Public Kin	will require appropriate
the undersigned agrees that the above and are only subject to change if further	findings are summarized accurately investigation reveals that they
are not reasonable or that they are based	on inaccurate information.
SIGNED: Sifty 4. Loopshy SIGNED	(Male) Gal
TITLE: CEPRENT Androtogy TITLE:	- 12 4 2 C C C C C C C C C C C C C C C C C
DATE: 7/2/85 DATE:	115/62
NOTE PLEASE PROVIDE A COPY OF THIS RE	CAP WITH THE DRAINAGE SUBMITTAL
for the period of construction	& eff-site due to the
outlet discharge.	the state of the s



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

March 28, 1980

Neal F. Godwin Godwin Engineering Corporation 3820 Academy Parkway Albuquerque, NM 87109

Reference: West Mesa Mobile Home Park

Dear Mr. Godwin:

The attached are my comments concerning the above referenced Drainage Report submitted to this office on March 13, 1980:

- 1. Very comprehensive report, however, the following details have been left out:
 - a. Elevations for ponds;
 - b. Property and T.C. elevations;
 - Details for spillovers and positive drains;
 - d. Details for ponds, sizes, depths, sections;
 e. Depth of flow in streets;

 - f. Additional details for paved drainageways, lengths, slopes, depths, velocity, entrance, outlet;
 - g. Rundown details.
- 2. Pond #2, indicates a paved rundown for inflow however, for Pond #1, none are indicated, how will it be protected from erosion?
- 3. Will the entrance street off Central Avenue intercept the flow from the alley from the west and route it through the park as it appears on the plan? If not, how will the flow get from one side of the street to the other?
- 4. Were the sidewalks considered in the computations for developed condition? It wasn't indicated in the report.
- 5. How will the Q5 be released? There are no computations or details.

Neal F. Godwin 3/28/80 P. 2

- 6. It there any danger of flooding by the Tierra Bayita Channel until relocation can take place? Exhibit K, indicate the possibility of a flow of 300 cfs or more through the channel and since the section though the park is a bend, the superelvated flow could top the existing bank on the south.
- 7. Obtain proposed alley grades from City Engineer's Office.

If you have any questions concerning these comments, please feel free to call on $\ensuremath{\mathsf{me}}\xspace$,

Sincerely,

Fred J. Aguirre Civil Engineer

FJA/lc



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

DESIGN HYDROLOGY SECTION 123 Central NW, Albuquerque, NM 87102 (505) 766-7644

July 26, 1985

Mr. Philip Clark Espey, Huston & Associates, Inc. 4801 Indian School Road, NE, Suite 204 Albuquerque, NM 87110

REF: DRAINAGE REPORT FOR MOUNTAIN VIEW MOBILE HOME PARK (L9-D2)
RECEIVED JULY 22, 1985

Dear Mr. Clark:

A preliminary review of your submittal for Site Development Plan approval has shown that the following information is lacking for this section to begin the review process:

Information Needed

- 1. Completed Information Sheet.
- Professional Engineer's Stamp with signature and date (Revision date).
- City approved street grades are required for the adjacent unimproved streets.
- Financial guarantees required for any private/public infrastructures needed for development.
- 5. Retention ponding on-site is acceptable if designed around a future outfall system downstream. The system downstream must be designed to point to determine capacity downstream. The retention pond must also accommodate runoff from required public street improvements. If public waters are to be accommodated in the pond, the pond must be dedicated to the City and the maintenance is the responsibility of the developer.

MUNICIPAL DEVELOPMENT DEPARTMENT

Mr. Philip Clar July 26, 1985 Page -2-

- 6. Please submit more spot elevations to indicate how the lots will drain.
- 7. Need section for the 10' private drainage easement swale.
- Please show top of curb and flow line elevations for the proposed streets.

If you should have any questions, please feel free to call me at 766-7644.

Sincerely,

Calla A Montya Carlos A. Montoya City/County Flood Plain Admin.

CAM:mrk

DRAINAGE INFORMATION SHEET

	reets - South of Central Avenue
ITY ADDRESS:	
NGINEERING FIRM: Espey, Huston & Assoc.,	Inc. CONTACT: Phil Clark
480] Indian School Road NE, Albuquerque, NM 87]]0	Suite 204
WNER: West Mesa Development Group	CONTACT: Curtis Brewer
	PHONE:
RCHITECT: N/A	CONTACT:
ADDRESS:	PHONE:
URVEYOR: N/A	CONTACT:
ADDRESS:	PHONE:
ONTRACTOR: N/A	CONTACT:
ADDRESS: PRE-DESIGN MEETING: X YES NO X COPY OF CONFERENCE RECAP SHEET PROVIDED	5 NB N3 85-298
TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL SOUGHT:
X DRAINAGE REPORT	SKETCH PLAT APPROVAL
DRAINAGE PLAN	PRELIMINARY PLAT APPROVAL
CONCEPTUAL GRADING & DRAINAGE PLAN	X SITE DEVELOPMENT PLAN APPROVAL
GRADING PLAN	FINAL PLAT APPROVAL
EROSION CONTROL PLAN	BUILDING PERMIT APPROVAL
ENGINEER'S CERTIFICATION	FOUNDATION PERMIT APPROVAL
	CERTIFICATE OF OCCUPANCY APPROVAL
	ROUGH GRADING PERMIT APPROVAL
	GRADING/PAVING PERMIT APPROVAL

ESPEY, HUSTON & ASSOCIATES, INC.

Engineering & Environmental Consultants 4801 INDIAN SCHOOL ROAD, N.E., SUITE 204 ALBUQUERQUE, N.M. 87110 (505) 255-1625

July 30, 1985

JUL 3 1 1985

AUSTIN, TEXAS 78767

HYDROLOGY SECTION

Mr. Carlos Montoya City Hydrology City of Albuquerque P. O. Box 1293 Albuquerque, New Mexico 87103

SUBJECT:

Mt. View Mobile Home Park Drainage Report - Letter dated July 26, 1985 (L9-02) EH&A Job No. 6753

Dear Mr. Montoya:

I feel there is a need to reiterate the scope and the purpose of the above referenced project. A conceptual drainage report was prepared for City review in order to facilitate site development plan approval. The proposed mobile home park is planned for 186 rental spaces with associated amenities. A network of private streets are proposed to convey surface storm runoff and traffic egress and ingress, along with appurtenant infrastructure improvements.

Below, in itemized form, I would like to respond to your comments:

nex Hel

- As standard practice, Espey, Huston & Assoc. includes completed information sheets within drainage reports. If this was an oversight, see attached.
- 2. At the conceptual stage (Site Development Plan submittal), we have not in the past included P.E. stamp. In this case and the future, we shall.
- Street grades for City review shall be deferred until which time construction drawings are submitted for final City approval. Since the concept proposed in the report "matches" existing grades at the perimeter of the project, adjacent City approved street grades do not appear to be a problem.
- 4. When will financial guarantees be required? Platting? S.D.P. sign-off? un
- 5. The developer cannot be required to solve the downstream Amole Basin at sproblem. The solution of 100% retention is an interim answer.

No public water is anticipated to be conveyed to the pond. All on-site streets are private. Since paving of 94th and Sunset Gardens will be deferred until actual development, no ponding of public water should be required.

ESPEY, HUSTON & ASSOCIATES, INC.
Montoya
7/30/85
Page 2

- The conceptual plan has sufficient information; i.e. spots, match existing, flow directional arrows.
- 7. See section attached.
- 8. Superfluous information for conceptual drainage plan.

As usual, if there are questions, or problems that I can assist in identifying, please feel free to call.

Sincerely,

Philip W. Clark Staff Engineer

/kh

Attachment

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ESPEY, HUSTON ASSOCIATES, INC.
Engineering & Environmental Consultants
4801 INDIAN SCHOOL ROAD N.E. SUITE 204
ALBUQUERQUE, HEW MEXICO 87110 Ph. (808) 255-1826

ROJECT: Mr. view	Mobile Home Park	PROJECT NO: 6753
	ted 5.W.	
		DATE: 10/1/85
o: City Alydrolo,		If enclosures are not as noted, please inform us immediately.
TIN: ME. CAZLOS	MONTOYA	If checked below, please: () Acknowledge receipt of enclosures.
E TRANSMIT:		() Return enclosures to us.
() herewith () und () in accordance with your	er separate cover via	
OR YOUR:		meren Ch
() review & comment () distribution to parties () inform) record	OCT 02 1985
HE FOLLOWING:		
) Shop Drawing Reproducibles ()) Samples TYDROLOGY SECTION) Product Literature
COPIES DATE REV. NO.	DESCRIPTION	ON ACTION CODE
1 10/1/85	101: 10 1	
1 191/03	blueline of concepta	al grading } E
	Manage plan	
TION A. Action indicated on item transi CODE B. No action required C. For signature and return to this	E. See REMAR	are and loowarding as noted below under REMARKS THE Bits out. Here is the
4		
revised plan with	: (1) preliminary street	grades on S. Gardens /94th St.
temposary pond for	e developed flows on S.	Gardens (barricaded X3) Revise
		P.E. Stamp, date, signiture
opies 40:	J-1.5. Wyo. sheet C	completed Win Dearing & Exp
OPIES TO:	(with enclosures)	
file	BY: 6	Les W. Gak
1.5.5 Zone	change of vacation of a	llay was approved ONE PAGE
last	with. Will be proceed	eding with Construction Han
Shoet	4. Roc	

	ORMATION SHEET
PROJECT TITLE: Mountain View Mobile Ho.	Park OTI OC / DRNG FILE #: 4-9- DE
LEGAL DESCRIPTION: Between 98 # 3 94	# Streets - South of Central Ave
	- Sireers - Start D Comment
CITY ADDRESS:	2500 CONTACT: Phil Clark
ENGINEERING FIRM: ESPEY, HUSTON 3 A	to 201
ADDRESS: ACBO, N.M., 87110	PHONE: 255-1625
OWNER:	CONTACT:
UWNERS	PHONE:
ADDRESS:	Priores
ARCHITECT:	CONTACT:
ADDRESS:	PHONE:
	CONTACT:
SURVEYOR:	PHONE:
ADDRESS:	PROMES
CONTRACTOR:	CONTACT:
PRE-DESIGN MEETING: HYDROLOGY SECT	
A_ YES	EPC NO.
COPY OF CONFERENCE RECAP	PROJ. NO
SHEET PROVIDED	
TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL SOUGHT:
★ DRAINAGE REPORT	SKETCH PLAT APPROVAL
DRAINAGE PLAN	PRELIMINARY PLAT APPROVAL
CONCEPTUAL GRADING & DRAINAGE PLAN	SITE DEVELOPMENT PLAN APPROVAL
GRADING PLAN	FINAL PLAT APPROVAL
EROSION CONTROL PLAN	BUILDING PERMIT APPROVA_
ENGINEER'S CERTIFICATION	
	OTHER (SPECIFY)

DATE SUBMITTED: 10-2-85
BY: Phillip Charle



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

DESIGN HYDROLOGY SECTION 123 Central NW, Albuquerque, NM 87102 (505) 766-7644

October 17, 1985

Mr. Phil Clark Espey, Huston & Assoc. 4801 Indian School Road, Suite 204 Albuquerque, NM 87110

REF: CONCEPTUAL DRAINAGE PLAN FOR MOUNTAIN VIEW MOBILE HOME PARK (L9-D2) RECEIVED OCTOBER 2, 1985

Dear Mr. Clark:

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

- The referenced plan is a conceptual drainage plan and not a drainage report as shown on the information sheet. Your conceptual plan does have sufficient information for review to obtain Site Development Plan approval. However, for Building Permit we will require more detailed information.
- The ponding of public waters on Sunset Gardens does not appear appropriate. The streets function is for traffic and not for ponding areas. We believe that the pond should be placed in private property. Also, easements and covenants will be required.
- 3. If traffic is requesting construction of curb and gutter for 94th Street, then the historic flows will be disrupted. The flow patterns will be different and therefore the flows will need to be ponded in the retention pond. Again, we will require drainage covenants and easements.

If you have any questions, please contact this office at 766-7644.

Sincerely,

Carlos A. Montoya City/County Flood Plain Admin.

CAM:mrk

MUNICIPAL DEVELOPMENT DEPARTMENT

C. Dwayne Sheppard, P.E., City Engineer

ENGINEERING DIVISION

Telephone (505) 766-7467

DRAINAGE I	NFORMATION SHEET
PROJECT TITLE: MOLINTAIN YIGH HOBILE HOME PAR	Z. ZONE ATLAS/DRNG. FILE #: L-9-1-2
	STREETS - SOUTH OF CHATRAL AVENUE
CITY ADDRESS:	
ENGINEERING FIRM: ESPEY, HUSTON & ASSOC., IN	CONTACT: PAIL CLARK
ADDRESS: 4801 JHDIAN SCHOOL ROLL	Ne. PHONE: 255-1625
OWNER:	CONTACT: O/RT/S Browne
ADDRESS:	PHONE:
ARCHITECT:	CONTACT:
ADDRESS:	PHONE:
SURVEYOR:	CONTACT:
ADDRESS:	PHONE:
CONTRACTOR:	CONTACT:
ADDRESS:	PHONE:
PRE-DESIGN MEETING: V YES ND HYDROLOGY SECTION COPY OF CONFERENCE RECAP SHEET PROVIDED	DRB NO. 85-298. N EPC NO
TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL SOUGHT:
Y DRAINAGE REPORT	SKETCH PLAT APPROVAL
DRAINAGE PLAN	PRELIMINARY PLAT APPROVAL
CONCEPTUAL GRADING & DRAINAGE PLAN	✓ SITE DEVELOPMENT PLAN APPROVAL
GRADING PLAN	FINAL PLAT APPROVAL
EROSION CONTROL PLAN	BUILDING PERMIT APPROVA_
ENGINEER'S CERTIFICATION	FOUNDATION PERMIT APPROVAL
	CERTIFICATE OF OCCUPANCY APPRILVAL
	ROUGH GRADING PERMIT APPROVAL
	GRADING/PAVING PERMIT APPROVAL
	OTHER (SPECIFY)

DATE SUBMITTED: /0-24-87

4

ESPEY, HUSTON & ASSOCIATES, INC.

Engineering & Environmental Consultants 4801 INDIAN SCHOOL ROAD, N.E., SUITE 204 ALBUQUERQUE, N.M. 87110 (505) 255-1625

> CORPORATE OFFICE P.O. BOX 519 AUSTIN, TEXAS 78767

October 24, 1985

OCT 24 1985
HYDROLOGY SECTION

Mr. Carlos Montoya City Hydrology P. O. Box 1293 Albuquerque, New Mexico 87103

SUBJECT:

Conceptual Drainage Plan - Mt. View Mobile Home Park (L9-D2) EH&A Job No. 6753

Dear Carlos:

I received your letter dated October 17th regarding the above plan submittal and forward these responses. In itemized form:

- The plan submitted was indeed intended for conceptual review. A more
 detailed plan will be submitted shortly for inclusion into construction
 drawings, and thusly for issuance of Building Permit.
- Two responses....a) The amount of water to be ponded in Sunset Gardens is so minimal that it is of no consequence (Q100<1 cfs, VOL 100 = 1000 cf, both developed parameters); b) The developer should not be required to pond public water on private property. This constraint would be an undue onus placed on the developer by the City of Albuquerque.</p>
- 3. Traffic is <u>not</u> requesting construction of curb/gutter on 94th Street. EPC approved the Site Development Plan and deferral of street improvements on September 19, 1985. (See enclosed "Notification of Decision".) Therefore, historic flows will not be disrupted.

A short turnaround to these comments would be greatly appreciated, as we at EH&A are ready to proceed on a final construction set.

Sincerely.

Philip W. Clark Staff Engineer

/kh

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City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

DESIGN HYDROLOGY SECTION 123 Central NW, Albuquerque, NM 87102 (505) 766-7644

November 15, 1985

Phil Clark Espey, Huston & Associates, Inc. 4801 Indian School Road, NE Suite 204 Albuquerque, New Mexico 87110

> RE: CONCEPTUAL DRAINAGE PLAN FOR MOUNTAIN VIEW MOBILE HOME PARK RECEIVED OCTOBER 24, 1985 (L-9/D2)

Dear Mr. Clarks ---

I have reviewed your letter dated October 24, 1985, and forward the following response. Referring to Section 7.A. of the Drainage Ordinance, the surface of streets may be used for drainage and flood control purposes, to the extent such use does not interfere with the safe transportation of people and vehicles. We therefore believe that the pond should be placed in private property. Also, easements and covenants will be required.

Cordially,

Carlos A. Montoya, P.E.

City/County Floodplain Administrator

CAM/bsj

MUNICIPAL DEVELOPMENT DEPARTMENT

C. Dwayne Sheppard, P.E., City Engineer

ENGINEERING DIVISION

Telephone (505) 766-7467

ESPEY, HUSTON & ASSOCIATES, INC.

Engineering & Environmental Consultants
4801 INDIAN SCHOOL ROAD, N.E., SUITE 204
ALBUQUERQUE, N.M. 87110
(505) 255-1625

November 21, 1980N

CORPORATE OFFICE P.O. BOX 519 AUSTIN, TEXAS 78767

Mr. Carlos Montoya City Hydrology City of Albuquerque P. O. Box 1293 Albuquerqus, New Mexico 87103

SUBJECT:

DATE OF THE PARTY OF

Conceptual Drainage Plan for Mountain View Mobile Home Park, (L-9/D2) EH&A Job No. 6753

Dear Carlos:

In response to your letter dated November 15, 1985 regarding ponding within the street ROW on Sunset Gardens, Espey, Huston and Associates maintains that accepting and impounding public water on the subject private property would be an undue burden placed upon the owner.

Attached is a copy of 7.A of the Drainage Ordinance. Additionally, since the pond is proposed to be barricaded, it is safe for pedestrian and vehicular traffic. I also want to reiterate that the street in its present state is impassible. In order to comply with the "maximum depth of 0.87 ft.", the pond depth will be resized to a depth of 0.87 ft., approximately doubling the square footage ara, with the submittal of the final grading plan. I hope this will lay your concerns, which are appreciated, to rest.

As usual, if there are any questions, please feel free to give me a call.

Sincerely,

Philip W. Clark Staff Engineer II

/kh

Attachment

trol official for the City in accordance with the requirements of the Federal Insurance Administration.

SECTION 7. Surface Use of Streets for Drainage and Flood Control Purposes.

- A. The surface of streets may be used for drainage and flood control purposes, to the extent such use does not interfere with the safe transportation of people and vehicles.
- 8. The 100-year design storm runoff shall not exceed a depth of 0.87 feet at any point within the street right-of-way, or 0.2 feet above top of curb, in any street nor enter private property from a street, except in recorded drainage or flood control easements or rights-of-way (or historic channels and watercourses where easements or rights-of-way cannot be obtained).
- C. The 10-year design storm runoff shall not exceed a depth of 0.5 feet in any arterial street and shall flow such that one twelve (12.0) foot driving lane in each direction is free of flowing or standing water. The 10-year design storm runoff shall not exceed a depth of 0.5 feet in any collector street. Arterial and collector streets that are in the State Highway system may require more stringent drainage criteria.
- D. The product of depth times velocity shall not exceed 6.5 at any location in any street in the event of a 10-year design storm (with velocity calculated as the average velocity measured in feet per second and depth measured at the gutter flowline in feet).
- E. The discharge of nuisance waters to public streets shall be discouraged. Arterial and collector streets shall be protected from damages to the pavement surface and from the safety hazards created by surface flow of nuisance waters across them.
- F. All developed land within the City of Albuquerque shall be served by at least one paved access that shall be an all-weather facility during a



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

DESIGN HYDROLOGY SECTION 123 Central NW, Albuquerque, NM 87102 (505) 766-7644 December 19, 1985

Philip Clark
Espey, Huston & Associates, Inc.
4861 Indian School Road, NE Suite 204
Albuquerque, New Mexico 87110

RE: CONCEPTUAL DRAINAGE PLAN FOR MOUNTAIN VIEW MOBILE HOME PARK RECEIVED NOVEMBER 25, 1985 (L-9/D2)

Dear Mr. Clark:

This letter is to reconfirm the telephone conversation and meetings in reference to ponding in public right-of-way. Our policy is not to allow ponding in the public right-of-way. The precedent set by this pond would cause a difficult situation for others asking for the same approval.

The following are a list of alternatives which may provide the solution to this ponding problem.

- Provide temporary drainage easements and covenants on private property till the outfall becomes available.
- Defer the paving to a future date when the downstream outfall becomes available.
- 3. Temporary paving would be constructed with bar ditches. These ditches would be in the City Right-of-Way and would be constructed to retain the 100 year runoff from the paving. This paving would not satisfy the permanent solution and would be an additional cost to the owner.

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

Cordially,

Carlos A. Montoya, P.E.

City/County Floodplain Administrator

CAM/bsj

MUNICIPAL DEVELOPMENT DEPARTMENT

C. Dwayne Sheppard, P.E., City Engineer

ENGINEERING DIVISION

Telephone (505) 766-7467

DRAINAGE INFORMATION SHEET

	Streets - South of Central Avenue
CITY ADDRESS:	
ENGINEERING FIRM: Espey, Huston & Assoc 480] Indian School Road N	E Suite 204
ADDRESS: Albuquerque, NM 87]]0	PHDNE: 255-1625
OWNER: West Mesa Development Group c/o Berger Briggs	CONTACT: Curtis Brewer
ADDRESS: P. O. Drawer K	PHONE:
ARCHITECT: N/A	CONTACT:
ADDRESS:	
N/A	PHONE:
SURVEYOR: N/A	CONTACT:
ADDRESS:	PHONE:
CONTRACTOR: N/A	CONTACT:
ADDRESS:	PHONE:
HYDROLOGY SECTION SECTION COPY OF CONFERENCE RECAP	PROJ. NO
SHEET PROVIDED	
TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL SOUGHT:
DRAINAGE REPORT	SKETCH PLAT APPROVAL
DRAINAGE PLAN	PRELIMINARY PLAT APPROVAL
CONCEPTUAL GRADING & DRAINAGE PLAN GRADING PLAN	
ERGSION CONTROL PLAN	FINAL PLAT APPROVAL
ENGINEER'S CERTIFICATION	BUILDING PERMIT APPROVA_
CHILIFICATION	FOUNDATION PERMIT APPROVAL
	CERTIFICATE OF OCCUPANCY APPROVAL
	ROUGH GRADING PERMIT APPROVAL
	STHER MONTHS OF ENGLISH (SPECIFY)
P	TO accept Submitted for DEC News



ESPEY, HUSTON & ASSOCIATES, INC. Engineering & Environmental Consultants



February 19, 1986

Mr. Carlos Montoya City Hydrology City of Albuquerque P. O. Box 1293 Albuquerque, New Mexico 87103

SUBJECT:

Mt. View Mobile Home Park Conceptual Grading and Drainage Plan Approval EH&A Job No. 6753

Dear Carlos:

Enclosed please find copies of correspondence letters between City Hydrology and our office regarding the above. Additionally, please find the final construction set, grading and drainage plem. Your time permitting, I would like conceptual approval in order to submit to engineering for review of the construction set. Pursuant to your last letter dated December 19th, we will follow your suggestion of Alternate #2 (defer paving on Sunset Gardens).

If we could secure conceptual approval from you in writing by Thursday, February 20th, we could submit the plan set for DRC review. Please indicate in the approval letter that we have satisfied your requirements to allow the design review process to begin.

Your attention to this matter, as usual, is greatly appreciated.

Sincerely,

Philip W. Clark Staff Engineer II

/kh

Enclosure



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

DESIGN HYDROLOGY SECTION 123 Central NW, Albuquerque, NM 87102 (505) 766-7644

February 20, 1986

Philip Clark Espey, Huston & Associates, Inc. 4801 Indian School Road, NE Suite 204 Albuquerque, New Mexico 87110

> RE: CONCEPTUAL DRAINAGE PLAN FOR KOUNTAIN VIEW MOBILE HOME PARK RECEIVED FEBRUARY 19, 1986 (L-9/D2)

Dear Hr. Clarks

The above referenced plan, dated October 1, 1985, is conceptually approved. However, prior to site plan approval, the following item is required.

Straet improvements, which are to be built now or deferred to the future, need an outfall. We need public easements on private property and a maintenance agreement. If the street improvements are not needed, then we will not require the easement or covenants.

It is strongly recommended that an infrastructure list be approved by DRB prior to submittal of the work order drawings to DRC. DRB may require added or different infrastructures than are submitted to the nec.

The following items are needed prior to Building Permit release:

- Require a drainage plan for review and approval by this office.
- City approved street grades or adjacent unimproved streets.

if you have any questions regarding this project, call me at 766-7644.

Cordially,

Carlos A. Montoya, P.E.

City/County Floodplain Administrator

CAM/bsj

MUNICIPAL DEVELOPMENT DEPARTMENT

C. Dwayne Sheppard, P.E., City Engineer

ENGINEERING DIVISION

Telephone (505) 766-7467

100AINAGE INFORMATION SHEET

PROJECT TITLE: Mr. View M.H. Park	70NE ATI DE /DRNG ETI E M. /-0 /D2
LEGAL DESCRIPTION: between 98 th	
CITY ADDRESS:	
	MSDOC. CONTACT: PHIL CLARK
ADDRESS: 50 1 204 - 871	/// PHONE: 255-1625
1/. D P. 15-1	eup contact: Curtis Brown
ADDRESS: Po Drawer 18	87/03 PHONE:
ARCHITECT: W/A	CONTACT:
ADDRESS:	PHONE:
BURVEYOR: Espen Huston 5	Assoc CONTACT: Tim Aldrich
ADDRESS: Same as ale	ove PHONE: _ same as above
CONTRACTOR: C.C.M.	CONTACT: Terry Kraybill
PRE-DEBIGN MEETING: MAR 17 1986	PHONE: 255-2255
YES HYDROLOGY SECTION	DRB NO. 85-298
ND	EPC NO. 2-85-93
COPY OF CONFERENCE RECAP SHEET PROVIDED	PROJ. NO
TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL SOUGHT:
DRAINAGE REPORT	SKETCH PLAT APPROVAL
X DRAINAGE PLAN	PRELIMINARY PLAT APPROVAL
CONCEPTUAL GRADING & DRAINAGE PLAN	SITE DEVELOPMENT PLAN APPROVAL
GRADING PLAN	X FINAL PLAT APPROVAL
ERGSION CONTROL PLAN	
ENGINEER'S CERTIFICATION	FOUNDATION PERMIT APPROVAL
	CERTIFICATE OF DCCUPANCY APPROVAL
	ROUGH GRADING PERMIT APPROVAL
	GRADING/PAVING PERMIT APPROVAL
	OTHER (SPEC1FY)
3-/7-86	
DATE SUBMITTED:	

FILE COPY



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

DESIGN HYDROLOGY SECTION 123 Central NW, Albuquerque, NM 87102 (505) 766-7644

April 2, 1986

Philip Clark Espey, Huston & Associates, Inc. 4801 Indian School Road, NE Suite 204 Albuquerque, New Mexico 87110

> REI DRAINAGE REPORT SUBMITTAL OF MOUNTAIN VIEW MOBILE HOME PARK RECEIVED HARCH 17, 1986 FOR FINAL PLAT AND BUILDING PERMIT APPROVAL (L-9/DZ)

Dear Philips

The above referenced submittal, dated March 17, 1986, is approved for Platting purposes and Building Permit of the Clubhouse, contingent on the following items:

- City approved street grades consistant with those shown on grading plan for 94th Street and Sunset Bardens Avenue. Provide this office copies of approved plans.
- Construction of permanent Sunset Gardens Avenue is deferred until drainage outfall system for site is in place.
- 3. Grading & Drainage Plan submitted with construction drawings should show an emergency spillway for retention ponds, and the 10' wide private drainage easement along East side of site. These were omitted on the drawing submitted to this office but are identified in Drainage Report.

MUNICIPAL DEVELOPMENT DEPARTMENT

Philip Clark April 2, 1986 Page Two of Two

After DRB has approved the Preliminary Plat, this office can grant Rough Grading Permit approval.

Final Final approval by City Engineer will require an executed Subdivision Improvements Agreement.

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

Cordially,

Roger A. Green, P.E. C.E./Hydrology Section

cc: West Mesa Development Group Berger Briggs P.O. Box "K" 87103

RAG/bsj



City of Albuquerque

P.O. EOX 1293 ALBUQUERQUE, NEW MEXICO 87103

DESIGN HYDROLOGY SECTION 123 Central NW, Albuquerque, NM 87102 (505) 766-7644

April 29, 1986

Jay T. Olson Espey, Huston & Associates, Inc. 4801 Indian School Road, NE Suite 204 Albuquerque, New Mexico 87110

> RE: GRADING PLAN SUBMITTAL OF MOUNTAIN VIEW HOBILE HOME PARK RECEIVED APRIL 29, 1986 FOR ROUGH GRADING PERMIT APPROVAL (L-9/D2)

Dear Jay:

The above referenced submittal revised April 29, 1986, is approved for Rough Brading Permit. My signature on the drawings serve as the contractor's permit to do grading on site.

A Topsoil Disturbance Permit will also be required by Environmental Health Department.

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

Cordially,

noger A. Steen P. F.

Roger A. Green, P.E. C.E./Hydrology

cc: West Mesa Development , Julio Vincioni

RAG/bsj

ENGINEERING DIVISION

Telephone (505) 766-7467

- AN EQUAL OPPORTUNITY EMPLOYER =

	the same of the sa
DRAINAGE INFO	
PROJECT TITLE: MOUNTAIN VIL J MAY ZONE	ATLAS/DRAINAGE F.LE #_ L-9/TE
LEGAL DESCRIPTION: LOTS 14 \$ 15 PLOCE	LO DAIGHAL TOWARD OF WESTLAND
CITY ADDRESS: 9606 CENTERL	WE SU TOWNSHE OF WEST AND
EMGINEERING FIRM: ESTEL, HUSTON & ASS	CONTACT: JAN T. OGON
ADDRESS: 4001 WOIN SCHOOL RO. SU	THE 204 , 87110 PHONE: 255-1625
CHINER: WEST MESA DEJELORMENT	GROOT CONTACT: JULO VINCIONI
ADDRESS:	PHONE: 247-0444
ARCHITECT: KEUN (NEORGES & ASSOC	CONTACT: YETEL WOLFE
ADDRESS:	. PHONE: 255-4975
SURVEYOR: ESTEN HUSTON & ASSOCIATE	CONTACT: TIM ALSORICH
ADDRESS: 400L WOIN SCHOOL Fo. , SU	TE 24; 8/110 PHONE: 255-1675
CONTRACTOR: CONSTRUCTION CONTRACTING	MANAGEMENT CONTACT: JEHRY KANTELL
ADDRESS: 8049 Forma NE : ACB., N	M 97113 PHONE: 898-7777
PRE-DESIGN HEETING:	
✓ YES	DRB NO. 85-298
NO	EPC NO. 2-85-95
COPY OF CONFERENCE RECAP SHEET PROVIDED	PROJECT NO. <u>L-9/DZ</u>
TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL SOUGHT:
DRAINAGE REPORT	SECTOR PLAN APPROVAL
DRAINAGE PLAN	SKETCH PLAT APPROVAL
CONCEPTUAL GRADING & DRAIN PLAN	PRELIMINARY PLAT APPROVAL
GRADING PLAN	SITE DEVELOPMENT PLAN APPROVAL
EROSION CONTROL PLAN	FINAL PLAT APPROVAL
ENGINEER'S CERTIFICATION	BUILDING PERNIT APPROVAL
	FOUNDATION PERMIT APPROVAL
	CERTIFICATE OF OCCUPANCY APPROVAL
- il and a supplemental	ROUGH GRADING PERMIT APPROVAL
DATE SUBMITTED: ATTH 29, 1986	GRADING/PAVING PERMIT APPROVAL
BY: Jay T. Olen	OTHER(SPECIFY).
REV. 10/85 JANT. OLSON	0

3/2/86

Verbal approval only given for this submitted because it is not a final product.

The submitted is a red hind print. The approval cannot be an official plan date industry-ing reponse.

A.

DRAINAGE INFORMATION SHEET

LEGAL DESCRIPTION: 984/94	Street - on Can hal
CITY ADDRESS:	J. Can ma.
ADDRESS: Albua MA	- Suite 204 PHONE: 255-1625
DINNER!	
ADDRESS:	CONTACT:
	PHONE:
	CONTACT:
	PHONE:
BURVEYOR: Same as above	CONTACT: I'm Aldrick
ADDRESS:	PHONE: 255-/625
CONTRACTOR:	CONTACT:
ADDRESS:	PHONE:
ND HYDROLOGY SECT	TION EPC NO
YPE OF SUBMITTAL:	
DRAINAGE REPORT	CHECK TYPE OF APPROVAL SOUGHT:
DRAINAGE PLAN	SKETCH PLAT APPROVAL PRELIMINARY PLAT APPROVAL
CONCEPTUAL GRADING & DRAINAGE PLAN	SITE DEVELOPMENT PLAN APPROVAL
GRADING PLAN	FINAL PLAT APPROVAL
ERGSION CONTROL PLAN ENGINEER'S CERTIFICATION	BUILDING PERMIT APPROVA_
ENGINEER'S CERTIFICATION	FOUNDATION PERMIT APPROVAL
	CERTIFICATE OF DCCUPANCY APPROVAL ROUGH GRADING PERMIT APPROVAL
	GRADING/PAVING PERMIT APPROVAL
	OTHER Supplement (SPECIFY)
T/a- 101	to Approved granling
BY: 5/27/86	plan- public storm
They wife	Drain Improvement



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

DESIGN HYDROLOGY SECTION 123 Central NW, Albuquerque, NM 87102 (505) 766-7644

June 2, 1986

Philip Clark
Espey, Huston & Associates, Inc.
4801 Indian School Road, NE Suite 204
Albuquerque, New Mexico 87110

RE: 94TH STREET STORM DRAIN DESIGN SUBMITTAL RECEIVED APRIL 30, 1986 AND APPROVED STREET GRADES OF 94TH STREET RECEIVED MAY 27, 1986 (L-9/D2)

Dear Philip:

The above referenced submittals are approved allowing Building Permit sign-off by Hydrology.

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

Cordially,

Roger A. Green, P.E. C.E./Hydrology Section

cc: Julio Vincioni, West Mesa Development

RAG/bsj

MUNICIPAL DEVELOPMENT DEPARTMENT

C. Dwayne Sheppard, P.E., City Engineer

ENGINEERING DIVISION

Telephone (505) 766-7467

ESPEY, HUSTON & ASSOCIATES, INC.

Engineering & Environmental Consultants 4801 INDIAN SCHOOL ROAD, N.E., SUITE 204 ALBUQUERQUE, N.M. 87110 (505) 255-1625

EH&A Job #6753

(505) 255-1625

DRAINAGE REPORT FOR MOUNTAIN VIEW MOBILE HOME PARK

CORPORATE OFFICE P.O. BOX 519 AUSTIN, TEXAS 78767

Prepared for:

WEST MESA DEVELOPMENT GROUP c/o BERGER BRIGGS P. O. DRAWER K ALBUQUERQUE, NEW MEXICO 87102

JULY, 1985



ESPEY, HUSTON & ASSOCIATES INC. SUBJECT _Storm Dem

Mt. View M.H. Park

Bur

Per Conversation & meeting of Steve Boberg on April 28 th he said to project the HEL of EL. 64.12 as analysed by Boyle's 54" proposed in 1980 design (prelim.) This was done in the following analysis for the 42" & the design of sead in fact, this controlled the low point of the road @ min-clevation of load @ Top of curb 64.12 - 0.20 (above top of curb) = 63.92 TC. I would prefer to have the road a foot to 2 feet lower morder to avoid side slope easements on the east side of 94th, although this 13 not possible. With this ariteria in mind plus avoiding the 8" proposed SAS the design is as follows They welch

PROJECT NAME _ Mt. View M. H. Po.K SUBJECT 94th Street - Storm Drain Cales. BY RUC CK. BY P.L. APPROVED BY NO. DATE 4/24/86 DESIGN STORM DRAIL D Cop. of Type 'c' grate H= 0.87'(flowline to 0.2' above top of curb) NMEND nomograph - Sump condition Ane+ = 4.36 SF = (opening area, Type &') Q = 5.37 Ant 41/2 = 5.37 (436)(.87) = 21 cfs Q = CAJ Zgh = 0 = -2/3 (4.36) JZ9(.87) Verify Ha doo - street Qcap = 21 efs 11 A= 4+12.7 = 16.7 2% &= 0.001 P= 7+.67+20= 27.7 A/p= 0.60 V= 1.49 82/351/2 = 1.97 fps Q= VA = 33 Cfs (1/2 street alons) d = 0.87 oh 64 cfs 6 cfs

Q100 (from Site + street flows)=70
cfs

Mh vian H. H. Park JOB NO. 50 Calculations BY Roll CK. BY APPROVED BY WE DATE 4-24-86 PAGE 2 OF 4 .. therefore Q design = 70 ets 1/2 a design = 36 cfs from sheet 1 1st type 'c' cap. = 21+ curb opening of 2 efs residual = 12 cfs - olet. h' or d' in street y d=0.40 A= 4 SF & P= .4+20 = 20.4 A/P= 0.20 = Rh V= 0.94 fps => Q = 4 cfs, N.4.2612 y S= 0.50' => A= 4+2 = 65F 3 # = 0.29 P= ,5+20= 20.5 3 # = 0.29 V= 1.21 => & = 7.26 < 12 Street if d= 0.55 The Byent = 12 = 12 residual => Q = CAT2gh h = 0.55

cap. Sump's A= 4.36 SF = 0.67(4.36)VZg(.55) = 17 >> 12 cfs. -17 -5 i all in System -pipe \$ inlets (additional cap. of 5 ets

JOB NO. __ #6753 Mt. View M. H. PROJECT NAME ___ Storm Drain Calculationis BY RK. CK. BY APPROVED BY RATE 4/29/86 PAGE 3 OF 4 * Cop. of 42" & RCP, Prop. STORM DEAIN -@ cop. = 71 cfs > 70 design by mannings PER D. P.M. Ch. 22, VOL. 2 - CATCH BASINS IN SERIES" TC = 64.05 1 NGL. GA12 (Boyle Eng.

V= 1.33 + 1.2 (V2) + d, 14=0.10 24 Vel flowing Ful Q=19 V= 1.38 + 1.2(V) + d, = 1.33 + 1.2(112) + 1.5 Y (min)= 5' V2= 1.33 + 4, + 1.2 1/2 + d2 - 4 = $1.33 + 1.2\left(\frac{8.4^2}{29}\right) + 1.5 - 0.10$ $\frac{V_2(min) = 4.05!}{2}$ Steve Bokery C.O.A. Hydrology

SUBJECT Storm Drain Calculations

BY RUC CK. BY APPROVED BY RUE DATE 4/29/86 PAGE 4 OF 4

fry 4 = 20, 5 = .02, inv. @ 15+ inlet = 600 L2 = 25', 52 = 0.03 (mel. = 10, Q = 18) V = 1.33 + 1.2(84) + 15 = 4.14' V2 = 1.33 + 1.2 (102) + 1.5 - 0.10 = 4.6' 1/2 > 4, of 1st inlet - out = 59.91 (bessed) 5= 2.% -20'LG.

2nd inlet - in = 59.51 5_ = 3% -25'LG.

- out = 59.01 1/2 ft. drop cross Manhale - in = 58.26

OUT = 58.10 (max. el.)

LEGAL DESCRIPTION: Between 98th & 94th S	Park ZONE ATLAS/DRNG. FILE #: 1-9/C
CITY ADDRESS:	
ENGINEERING FIRM: Espey, Huston & Assoc.	
480] Indian School Road NE ADDRESS: Albuquerque, NM 87]]0	, Sufte 204 PHONE: 255-1625
DWNER: West Mesa Development Group	
onnerge. P. O. Drawer K	
Albuquerque, NM 87]03	
ARCHITECT: N/A	CONTACT:
ADDRESS:	PHONE:
SURVEYOR: N/A	CONTACT:
ADDRESS:	PHONE:
CONTRACTOR: N/A	CONTACT:
ADDRESS:	
X YES	DRB ND. 85-298
X COPY OF CONFERENCE RECAP	PROJ. NO
SHEET PROVIDED	PRUJ. NU
PE OF SUBMITTAL:	CHECK TYPE OF APPROVAL SOUGHT:
DRAINAGE REPORT	SKETCH PLAT APPROVAL
DRAINAGE PLAN CONCEPTUAL GRADING & DRAINAGE PLAN	PRELIMINARY PLAT APPROVAL
GRADING PLAN	X SITE DEVELOPMENT PLAN APPROVAL FINAL PLAT APPROVAL
ERCSION CONTROL PLAN	BUILDING PERMIT APPROVA_
ENGINEER'S CERTIFICATION	FOUNDATION PERMIT APPROVAL
	CERTIFICATE OF OCCUPANCY APPROVAL
	ROUGH GRADING PERMIT APPROVAL
	GRADING/PAVING PERMIT APPROVAL

-

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

PRE-DESIGN CONFERENCE RECAP	
HYDROLOGY SECTION PROJECT NO.: L-9 DATE: 7/2/85	
PLANNING DIVISION NOS. EPC: DRB:	
BUBJECT: Mountain View And Mobilehome Basel DEBCRIP. Replatting of area blum 98th 94th Sunset Gardens Rd, & Alley South of Conserval REQUESTED	
PRELIMINARY PLAT FINAL PLAT	
X SITE DEVELOPMENT PLAN BUILDING PERMIT	
ROUGH GRADING	
ATTENDANCE: Philip Clark Espen, Huston & Assoc.	
Conceptual Drainage Plan/Report required for Preliminary Plat and/or Site Development Plan sign-off. Approved Drainage Plan/Report required for Final Plat and/or Building Permit sign-off.	
Subdivision Improvements Agreement or Financial Security required.	
FINDINGS: ODISCHORGE to be controlled due to flooring downstream 2 as interim until downstream improvements are made ODISCHARGE to be 0.565 per acre or as determined by analysis. O Discharge across other than Public RW will require appropriate passentined agrees that the above findings are summarized accurately and are only subject to change if further investigation reveals that they are not reasonable or that they are based on inaccurate information. BIGNED: Diffu f. Lynny SIGNED: Only Cf.	
TITLE: CEffection Shipson TITLE: Aluga Riginer	
DATE: 7/2/85 DATE: 7/2985	
**NOTE ** PLEASE PROVIDE A COPY OF THIS RECAP WITH THE DRAINAGE SUBMITTAL	

espey, Huston & Associates, Inc.

TABLE OF CONTENTS

Page

PURPOSE AND SCOPE	1
LOCATION AND DESCRIPTION	2
EXISTING DRAINAGE CONDITIONS	5
PROPOSED DRAINAGE CONDITIONS	6
RECOMMENDATIONS	7
CALCULATIONS	8
LIST OF FIGURES AND EXHIBITS	
	Page
FLOOD HAZARD MAP/VICINITY MAP - FIGURE 1	3
SOILS MAP - FIGURE 2	4
DRAINAGE PLAN - SHEET 2	Pocket

h ESPEY, HUSTON & ASSOCIATES, INC.

PURPOSE AND SCOPE

The purpose of this report is to establish the criteria for controlling surface storm run-off and to study the hydrologic affects of the proposed drainage/grading and infrastructure improvements to the project presently described as Lots 28-91, Doughty's Replat of Lot 28, Block 10; and Lots 14-15, Block 10, within the Original Townsite of Westland. This plan determines the excess run-off resulting from the 100-year/6-hour and 10-year/6-hour frequency storms failing within the site, historic and developed conditions. This report is prepared to facilitate site development plan approval by the City of Albuquerque.

The scope of the proposed plan will not increase the flooding potential to adjacent properties or downstream area. The plan is presented in a manner which is acceptable to the City of Albuquerque, using hydrologic procedures as outlined in Chapter 22 of the Development Process Manual.

h ESPEY, HUSTON & ASSOCIATES, INC.

LOCATION AND DESCRIPTION

The proposed Mountain View Mobile Home Park is located in southwest Albuquerque approximately 1.5 miles west of Coors Blvd. immediately south of Central Avenue. (See Figure 1, Vicinity Map, following page.) The Park is proposed for 186 rental spaces with associated amenities and private streets.

The site is approximately 24 acres in size and is presently undeveloped. The site itself is characterized by gentle slopes of about 2%, falling generally from west to east. The major soil present on the site is the Pajarito Complex, PAC; classified as a type "B" soil by the USDA Soil Conservation Service. (See Soils Map, Figure 2, page 4.)

ESPEY, HUSTON & ASSOCIATES, INC.

EXISTING DRAINAGE CONDITIONS

As previously mentioned, the site is presently undeveloped. The project is bounded on the north by improved Central Avenue. 94th Street and Sunset Gardens Road, both unimproved, are adjacent to the east and south respectively. 98th Street that abuts the site to the west is paved. A 10' alley which runs along the north boundary is approved for vacation subject to platting of the property.

Sheet 1 (see pocket) illustrates the existing topography of the site. Minimal off-site flows enter from the west. No off-site flows enter the project from either the north, south or east. Historically, the 24-acre site discharges an approximate Q100 of 38 cfs.

h ESPEY, HUSTON & ASSOCIATES, INC.

PROPOSED DRAINAGE CONDITIONS

The drainage plan sheet 1, (see pocket) shows: 1.) proposed spot elevations and existing contours at 2'-0" intervals. 2.) proposed rental spaces and private street plan to be platted. 3.) proposed drainage and grading improvements with continuity with existing grades.

Proposed private infrastructure improvements include water and sewer utilities in the private street scheme connecting to main lines in 98th Street and Central Avenue. Presently, the site discharges ultimately to an existing flood plain in Bridge Street SW; therefore, the scope of the plan is to retain 100% of the 100-year/6-hour storm run-off volume on site in the northeast portion of the project. This retention facility will have two separate levels of pond bottom. The playground area will be depressed a minimum of 2.0 feet and sized to retain a 1.5 foot depth of water. A deeper pond of approximately 5 feet will be necessary to retain the remainder of the V100 storm volume. The deeper pond will encumber 6 rental spaces and will require fencing. The proposed ponding scheme of total retention should remain in place until such time that sufficient downstream facilities are in place. The required total run-off volume (V100) shall be 121,200 cubic feet. Therefore, the scope of the proposed plan will in essence mitigate the existing downstream capacity problem.

The ponds shall be designed with an emergency spillway (0.5 ft. deep x 60 ft. long) in order to control possible run-off in excess of the 100-yr./6-hr. storm.

ESPEY, HUSTON & ASSOCIATES, INC.

RECOMMENDATIONS

- With the implementation of an approved erosion control plan, erosion will not result due to the proposed improvements of this plan. Said plan should be a part of the approved construction plans for grading.
- Construction plans in compliance with this report shall be required for the implementation of this report/plan recommendations.
- The proposed drainage improvements will not increase the flooding potential to downstream or adjacent properties. In fact, the downstream floodplain will be mitigated due to this plan.
- 4. Retention ponding should be implemented as an interim measure. A soils report should be requested in order to fully investigate the soils for total storm run-off retention.
- Maintenance of the 10' private drainage easement and retention facilities shall be the responsibility of the owner.

h ESPEY, HUSTON & ASSOCIATES, INC.

CALCULATIONS

ESPEY, HUSTON & ASSOCIATES INC. SUBJECT DEALLAGE Engineering & Environmental Consultants MT. VIEW MOBILE HOLDE PARK DATE 7/15/05 CX BY JR I. Hydrologic CRITERIA TC = 0.0078 C 0.77 50.365 Q= CiA VOL: PCA i = PG. 84 TC -0.51 Pioo = 8.2 in. + Pio = 1.45 in. Area: 23 Ac. = Soil - Type B', PAC, Pajarito p. 30 Beenalillo Cty 1/2 impervious = 65% II. EXISTING CONDITIONS C = 0.34 TC = 10 min. .. i= 4.65 in/he. Lio = 3.00 in/hR. Q = CiA. Q100: (0.34)(4.65)(23)

Q100 = 36 cfs

Volico = 2.2 (.34)(23) 43560

VOL,00 = 62, 450 C.F.

VOL = PCA

SOIL SURVEY

Q10 . 24 cfs

VOL,0 41,030 CF

ESPEY, HUSTON & ASSOCIATES INC. SUBJECT DEALURGE Engineering & Environmental Consultants

MT. VIEW MOBILE HOLDE PARK

SHEET _ OF _ 2 . BY _ AUC DATE 7/15/85 OK BY TL

M. DEVELOPED CONDITIONS

SIZE POND FOR MOUNTAIN VIEW MOBILE HOME PARK

LENGTH = 1900 Ft. EL. DIFF. = 36 Ft. SLOPE = .018947 ft/ft TIME OF CONCENTRATION = 12.019 Min. RUNOFF COEFF. = .66 AREA = 23 Acres

P100 = 2.2 Inches. P10 = 1.4454 Inches.

1100 = 4.234 Inches/Hr. 110 = 2.7817 Inches/Hr.

0100 = 64.272 c.f.s. 010 = 42.227 c.f.s.

VDL100 = 121230 c.f. <u>VDL10 = 79648 c.f.</u>

ALLOWABLE DISCHARGE = 0 c.4.5.

POND VOLUME = 121230 c.f.

