HYDROLOGY C17/D1N 1 PLAN

C17/DIN

1 PLAN

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

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

May 14, 1985

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

REF: DRAINAGE PLAN FOR VICORP BUILDING, LOT 43 CLIFFORD INDUSTRIAL PARK (C17-D1N) RECEIVED MARCH 25, 1985

Dear Phil:

I have reviewed the above referenced submittal and forward the following comments:

1. Please identify the allotted discharge from this property per the Master Plan.

LOT 42 FIRMINED 2/12/85 → 2. Contrary to the statement, it appears as though runoff may enter the site from the east. Please clarify.

✓ 3. The erosion control berm should be located at both the west and north property lines. Please correct the statements in both places.

✓ 4. Please use the current Public Works Contract Number 85-1 for the City Standard referencing.

✓ 5. Along the east property line there is a reference to future top of curb, please clarify as to what this means (show typical if necessary).

✓ 6. Along the south property line the spot elevations shown off-site identify a top of curb, is this existing? It appears strange that a curb would be in this location since the edge of existing asphalt is shown to be back on the property. Could this be median curb? If so, where is the other side?

? 7. Please provide details and the hydraulics for the proposed swale through the landscaping area. What will be the depth and velocity at the upstream curb-cut? Will erosion occur?

may need to clarify

8. The proposed 0.5% slope in the asphalt area is very difficult to achieve. Please provide concurrence from the owner(s) that the potential "bird-baths" on the site is acceptable.

9. The plan indicates approximately a 10 foot difference in width from the curb line and the back of the property. Is this a true case?

10. The off-set dimension for the swale on the left side of the building is incorrect. Due to the varying width of the access the distance shown is not constant.

Should you have any questions or comments, please call this office at 766-7644.

Cordially,

Billy J. Goolsby

Billy J. Goolsby, PE
Civil Engineer/Hydrology

BJG:mrk

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Vicorp Bldg. ZONE ATLAS/DRNG. FILE #: C-17/D1N

LEGAL DESCRIPTIL Lot 43 Clifford Industrial Park

CITY ADDRESS: ? Anaheim Ave. N.E.

ENGINEERING FIRM: Espey, Huston & Assoc. CONTACT: Phil Clark

ADDRESS: 4801 Indian School Suite 204 Albuq., N.M. PHONE: (505)-255-1625

OWNER: CONTACT:

ADDRESS: PHONE:

ARCHITECT: Holmes, Sabatini & Smith CONTACT: Jon Leymon

ADDRESS: 215 Gold S.W. Albuq. PHONE: (505)-247-3705

SURVEYOR: N.A. CONTACT:

ADDRESS: PHONE:

CONTRACTOR: N.A. CONTACT:

ADDRESS: PHONE:

RECEIVED MAR 25 1985 HYDROLOGY SECTION

PRE-DESIGN MEETING:

✓ 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
- ___ FOUNDATION PERMIT APPROVAL
- ___ CERTIFICATE OF OCCUPANCY APPROVAL
- ___ ROUGH GRADING PERMIT APPROVAL
- ___ GRADING/PAVING PERMIT APPROVAL
- ___ OTHER _____ (SPECIFY)

DATE SUBMITTED: 3-25-85

BY: Philip W. Clark

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

PRE-DESIGN CONFERENCE RECAP

HYDROLOGY SECTION PROJECT NO.: C 17 DATE: 2-15-85

PLANNING DIVISION NOS. EPC: _____ DRB: _____

SUBJECT: Vinnie Bldg. - Lot 93 Gulfport Industrial Park

LEGAL DESCRIP.: _____

APPROVAL REQUESTED

____ PRELIMINARY PLAT
____ SITE DEVELOPMENT PLAN
____ FINAL PLAT
X BUILDING PERMIT
____ ROUGH GRADING

	WHO:	REPRESENTING:
ATTENDANCE:	Philip Clark	
	Carlos A Martinez	

____ Conceptual Drainage Plan/Report required for Preliminary Plat and/or Site Development Plan sign-off.

X Approved Drainage Plan/Report required for Final Plat and/or Building Permit sign-off.

____ Subdivision Improvements Agreement or Financial Security required.

FINDINGS: ① Drainage plan per DTM ② Site drainage determined by Master plan for Gulfport Industrial Park ③ If use of culvert to Domingo Baca Channel will require Encroachment with AMAFCA

The undersigned 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.

SIGNED: Carlos A Martinez SIGNED: [illegible]
TITLE: 2-15-85 TITLE: Asson Engineer
DATE: _____ DATE: 2/15/85

NOTE PLEASE PROVIDE A COPY OF THIS RECAP WITH THE DRAINAGE SUBMITTAL

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

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

June 5, 1985

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

RE: DRAINAGE PLAN FOR VICORP BUILDING, LOT 43 CLIFFORD INDUSTRIAL PARK (C17/D1n) RECEIVED MAY 22, 1985

Dear Mr. Clark:

The above referenced plan dated May 14, 1985 is approved for building permit. I would like to clarify some of the comments from our May 15, 1985 letter. Our pre-design conference recap does not have an item 4 which is shown on your copy. At the pre-design meeting I must have marked only your copy and not ours. The free discharge comment is only on your copy therefore, this could have caused some confusion.

Secondly, we have spoken to contractors who have indicated that a slope of 0.5%is very difficult to achieve. We are suggesting that your proposed slope may cause problems but it is an acceptable slope. If the owner is aware of the situation and this is your recommendation then the City will accept this slope.

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

Sincerely,

Carlos A. Montoya
City/County Flood Plian Admin.

CAM/cl

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Vicorp Bldg. ZONE ATLAS/DRNG. FILE #: C-17/D1N

LEGAL DESCRIPTION: LOT 43 - CLIFF. INDUST. PARK

CITY ADDRESS: 4432 Anaheim N.E.

ENGINEERING FIRM: ESPEY, Huston & Assoc CONTACT: PHIL CLARK

ADDRESS: 4801 Indian School NE Ste 204 - Albuq. PHONE: 255-1625

OWNER: — CONTACT: —

ADDRESS: — PHONE: —

ARCHITECT: Holmes, Sabatini, Smith CONTACT: D. Smith

ADDRESS: 215 Gold SW - Albuq. PHONE: 247-3705

SURVEYOR: ESPEY, Huston & Assoc CONTACT: Tim Aldrich

ADDRESS: Same PHONE: same as above

CONTRACTOR: N.A. CONTACT: —

ADDRESS: — PHONE: —

RECEIVED MAY 22 1985 HYDROLOGY SECTION

PRE-DESIGN MEETING:

✓ 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

X 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

___ FOUNDATION PERMIT APPROVAL

___ CERTIFICATE OF OCCUPANCY APPROVAL

___ ROUGH GRADING PERMIT APPROVAL

___ GRADING/PAVING PERMIT APPROVAL

___ OTHER ___ (SPECIFY)

DATE SUBMITTED: 5/16/85

BY: Philip A. Clark

ESPEY, HUSTON & ASSOCIATES INC.
Engineering & Environmental Consultants

SUBJECT GRADING / DRAINAGE

SHEET 1 OF 3 BY RJC
DATE 5-15-85 CK BY

VICORP Bldg.
CLIFFORD INDUSTRIAL PARK - LOT 43

Re: DRAINAGE PLAN LETTER dated 5/14/85, from HYDROLOGY DEPT.

Comment #1 — allotted discharge per DRAINAGE Report for CLIFFORD INDUSTRIAL PARK 8/82 prepared by BOHANNAN-HUSTON

Q_p = 3.9 cfs to Domingo Baca based on 70% impervious

RECEIVED
MAY 22 1985
HYDROLOGY SECTION

— our plan depicts "free-discharge" to Anaheim per PRE-DESIGN mtg. w/ Mr. Carlos Montoya, City Hydrology dated 2/15/85. See attached copy.

Note — our plan uses 90% impervious ∴ discharge is 0.6 cfs greater than Bohannan's allotted.

Comment #2 — LOT 42 is graded such that to retain all run-off ON LOT 42. (Per BOHANNAN'S report). GRANTED A minimal AMOUNT of RUN-OFF WILL ENTER from the EAST, OFF existing bermswest side-slope.

Comment #3 — Have the same situation as in Comment #2, ALTHOUGH will comply. Changes made directly on the plan.

Comment #4 — Revised on plan. SEE plan.

Comment #5 — An approved plan per Tom MANN & Assoc. exists in City Hydrol. files Clarified on plan. Typical not necess.

ESPEY, HUSTON & ASSOCIATES INC.
Engineering & Environmental Consultants

Vicorp

SUBJECT _____
SHEET 2 OF 3 BY FJC
DATE 5/15 CK BY _____

Comment #6 — Clarified on plan & legend — "No median curb."

Comment #7 — Details should not be necessary. Sufficient amount of spots inorder to construct. Also; depth varies, a detail would merely confuse the issue.

→ Size curb cuts

cast area = $\frac{200' \times 55' + 30(280)}{43{,}560\ SF} = 0.40$ AC.

$TC = 10 min. \Rightarrow i_{100} = 2.25(0.54)(1.0)^{-.51}$

$= 4.76$ in/hr.

$Q_{100} = 0.90(4.76)(0.40)$

$= 1.71$ cfs. ... use 2 cfs

$\Rightarrow v_{100} = 4$ fps

using the weir eq.:

use 1.71 cfs for 'd' calc.

$1.71 = 3.33(2)d^{3/2}$

$d_{100} = 0.41$

$Q_{cap} = 3.33\ LH^{3/2}$ & $H = 0.5'$

$2\ cfs = 3.33(L)(0.5)^{3/2}$

$1.7'$ use 2' cuts

no erosion should occur since $v = 4$ fps. and landscape area is proposed to be sodded.

TRIANGULAR SECTION (Swale)

max. SIDE SLOPE X/Y = 3
min. DEPTH = .5 FT
AREA = 1.5 SF
HYDRAULIC RADIUS = .2466 FT
SLOPE = .01 FT/FT
n = .025
Q = 3.5156 CFS >> 1.7 cfs
VELOCITY = 2.3437 FPS

ESPEY, HUSTON & ASSOCIATES INC.
Engineering & Environmental Consultants

SUBJECT _____

SHEET ___ OF ___ BY RWC

DATE 5/15/85 CK BY _____

V1200RP

Comment #8 — owner has been made aware.
If this comment is to be the "norm" from City Hydrology — please send memo to that affect to all Contractors, Developers, Engineers, Designers etc. (ie) D.W. Sheppard's Memo to the same re: Proc. A & B, Subdivision Improvements

This request is made since this a change in criteria from C.O.A. "rule of thumb" — 1% min. on dirt
1/2% min. on pavement

Comment #9 — SEE response to C-#6.

Comment #10 — revised plan to clarify.

ENGINEERING DIVISION/DESIGN HYDROLOGY SECTION

PRE-DESIGN CONFERENCE RECAP

HYDROLOGY SECTION PROJECT NO.: C17 DATE: 2-15-85

PLANNING DIVISION NOS. EPC: _____ DRB: _____

SUBJECT: VICORP Bldg. — LOT 43, CLIFFORD INDUSTR. PARK

LEGAL DESCRIP.: _____

APPROVAL REQUESTED

____ PRELIMINARY PLAT
____ SITE DEVELOPMENT PLAN
____ FINAL PLAT
X BUILDING PERMIT
____ ROUGH GRADING

ATTENDANCE:	WHO:	REPRESENTING:
	Philip Clark	
	Carlos A Montoya	

____ Conceptual Drainage Plan/Report required for Preliminary Plat and/or Site Development Plan sign-off.

X Approved Drainage Plan/Report required for Final Plat and/or Building Permit sign-off.

____ Subdivision Improvements Agreement or Financial Security required.

FINDINGS: ① Drainage plan per DPM ② Site discharge determined by Master plan for Clifford Industrial Park ③ If use of Arroyo to Domingo Baca channel, will require concurrence with AMAFCA, ④ Free discharge to City street.

The undersigned 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.

SIGNED: Carlos A Montoya SIGNED: Philip W Clark
TITLE: 2-15-85 TITLE: design engineer
DATE: _____ DATE: 2/15/85

NOTE PLEASE PROVIDE A COPY OF THIS RECAP WITH THE DRAINAGE SUBMITTAL

Lot 43
Clifford Industrial
Park

Yes, need to clarify as per your comment

The discharge from this site is increased over adjacent. I feel it is important to restrict other developments to satisfy this one. I don't care if Carlos did indicate "free discharge"

Did not understand comment need to clarify

Item 1

BILLY I HAVE REVIEWED THE ~~FOLLOWING PLAN~~ attached PLAN PER YOUR COMMENTS AND THEY ~~ALL~~ HAVE ALL BEEN SATISFIED WITH THE EXCEPTION OF ITEMS (OF YOUR LETTER): 7 + 9 FOR ITEM 9 YOU MAY WANT TO QUALIFY YOUR REASON FOR NOT RECOMMENDING A 0.5% SLOPE IN THE ASPHALT GIVEN THE FEEDBACK WE HAVE RECEIVED FROM THE ASPHALT PAVING CONTRACTORS. JUST A THOUGHT. IT APPEARED FROM THEIR RESPONSE THAT WE WERE DICTATING A NEW REQUIREMENT.

ITEM 2 OF YOUR COMMENTS WAS APPROPIATE AND PER THE MASTER PLAN SHOULD HAVE REQUIRED DIRECT DISCHARGE INTO THE ARROYO. HOWEVER, PLEASE READ JEFF MORTENSEN JUSTIFICATION FOR DISCHARGING INTO ANAHEIM. PLEASE ADVISE GREG CRON ~~of the~~ OF THE RATIONALE USED TO DISCHARGE INTO ANAHEIM. HE WILL BE INTERESTED. JEFF MORTENSEN JUSTIFICATION IS HIGHLIGHTED IN BLUE AND attached to this report. Actually BOTH reports prepared by JEFF USED the SAME JUSTIFICATION. See C17-D1C + C17-D1K

REGARDING the ACCESS EASEMENT to be VACATED, I AM NOT SURE NOW they CAN USE the EASEMENT UNTIL IT IS VACATED. NOR CAN ~~I HAVE~~ ~~I DON'T BELIEVE~~ WE WE APPROVE A PLAN that INCORPORATES THE ACCESS EASEMENT FOR PARKING. ~~THEY~~ They WILL NEED TO INITIATE the VACATION REQUEST AND OBTAIN APPROVAL ~~HAVE THEM PROVIDE TO THE~~ FROM the DRB prior to building permit sign-off.

JDG 5/27/85

1035