

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

September 1, 1988

Douglas W. Copeland, P.E. Easterling & Associates, Inc. 5643 Paradise Boulevard, NW Albuquerque, New Mexico 87114

RE: REVISED GRADING & DRAINAGE PLAN, TRACT 1
CLIFFORD INDUSTRIAL PARK, RECEIVED AUGUST 29, 1988
FOR FINAL PLAT APPROVAL (C-17/D1U)

Dear Mr. Copeland:

The above referenced submittal, revised August 8, 1988, is approved as the Master Drainage Plan to be followed for subsequent development and subdivision. Any proposed subdivisions will require an executed Subdivision Improvements Agreement prior to the City Engineer's sign-off on any Final Plats if infrastructures are required.

All site development of lots will require a separate detailed Drainage and Grading Plan submittal, with the drainage scheme being consistent with this approved plan.

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

Cordially,

Roger A. Green, P.E.

C.E./Hydrology Section

xc: Robert Kastning

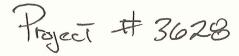
RAG/bsj (WP+748)

C-17/D/W

#### Jack Clifford & Company



September 9, 1988



Mr. Roger A. Green, P.E. C.E./Hydrology Section City of Albuquerque P.O. Box 1293
Albuquerque, NM 87103

Dear Mr. Green:

Re: Clifford Industrial Park/Washington Business Park
Drainage Plan Submittal

The above-referenced submittal requires a design variance for public drainage structures on Lot 15 of the subject subdivision.

Proposed is a public drainage swale versus the typical concrete channel. The swale is designed to match the existing swale constructed within the 35-foot public drainage easement at the west side of the subdivision. The proposed design also conforms to the approved drainage report prepared by Bohannan-Huston, Inc. dated August, 1982 for Clifford Industrial Park, Lots 1-63 and Tract B.

If you have any questions, call me at 881-0900.

Sincerely,

Robert L. Kastning
Land Development Planner
and Coordinator

RLK: 1m



# City of Albuquerque P.O. BOX 1293 ALBUQUEROIIE AIGHT

CHIEF ADMINISTRATIVE OFFICER

DEPUTY CAO DEVELOPMENT & ENTERPRISE SERVICES

DEPUTY CAO **PUBLIC SERVICES** 

**GENE ROMO** 

LARRY LARRANAGA

DAN WEAKS

June 27, 1988

Douglas W. Copeland, P.E. Easterling & Associates, Inc. 5643 Paradise Boulevard, NW Albuquerque, New Mexico 87114

> RE: REVISED GRADING & DRAINAGE PLAN, TRACT 1 CLIFFORD INDUSTRIAL PARK, RECEIVED JUNE 24, 1988 FOR FINAL PLAT APPROVAL (C-17/D1U)

Dear Mr. Copeland:

The above referenced submittal, revised June 24, 1988, is approved as the Master Drainage Plan to be followed for subsequent development and subdivision. Any proposed subdivisions will require an executed Subdivision Improvements Agreement prior to the City Engineer's sign-off on any Final Plats if infrastructures are required.

All site development of lots will require a separate detailed Drainage and Grading Plan submittal, with the drainage scheme being consistent with this approved plan.

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

Cordially,

Roger A. Green, P.E.

C.E./Hydrology Section

Robert Kastning xc:

RAG/bsj

## CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT UTILIT. DEVELOPMENT DIVISION/HYDROLOGY

PRE-DESIGN CONFERENCE

DRAINAGE FILE/ZONE ATLAS PAGE NO.: C-17/DIU DATE: 6-22-88
EPC NO.: DRB NO.: <u>88-355</u> ZONE: <u>SU-1 fa M-1</u>
SUBJECT: Clifford Industrial Park
STREET ADDRESS: Washington & Alamada
= == 1111702016
LEGAL DESCRIPTION: 7/oct 5 By 13-2, 13-5 B-4
APPROVAL REQUESTED: PRELIMINARY PLAT FINAL PLAT
SITE DEVELOPMENT PLAN BUILDING PERMIT
GRADING/PAVING PERMIT OTHER
who . Representing AUG 22 1988
ATTENDANCE PLAT VOCANIAN ALLE SCO.
C HYDROLOGY SECTION
reger ween up or age
FINDINGS:
1 To replat Tract B-1 one of the following Hems one required:
a. Make Tract B-1-A have a blankent drawage casement
granted to Lot I to pravide for a drawage swale outfall or
reference pand site. This way no Master Drawage than reusion would
the be necessary.
(b) Perise the Martin Drawore Plan showing the revised
Lot J. Plan would show one of the following drawing ordenes:
i Retention parding on Lot I until Tract B-1-A is subdivided
and drawing outfull is constructed.
Stream Capacity
1 - Construction of Soundean drawing system veross vact-b-1-4
(2) all replates approved with blanket Drawage Easewest, then revised Grading
Wanage blan will be required at fine of lot I development.
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: SIGNED: SIGNED: Jalet Talet
CALA
TITLE: TITLE:
DATE: 6/22/88 DATE: 6-6-88
**NOTE** PLEASE PROVIDE A COPY OF THIS PRE-DESIGN FORM WITH THE DRAINAGE SUBMITTAL.



P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

MAYOR
KEN SCHULTZ

CHIEF ADMINISTRATIVE OFFICER DEPUTY CAO PUBLIC SERVICES DEPUTY CAO PLANNING/DEVELOPMENT

7.

GENE ROMO

FRANK MARTINEZ

**BILL MUELLER** 

May 31, 1988

Douglas Copeland, P.E. Easterling & Associates, Inc. 5643 Paradise Boulevard, NW Albuquerque, New Mexico 87114

RE: GRADING & DRAINAGE REPORT SUBMITTAL OF CLIFFORD INDUSTRIAL PARK, TRACTS B-2, B-3, & B-4, RECEIVED MAY 13, 1988 FOR FINAL PLAT APPROVAL (C-17/D1U)

Dear Mr. Copeland:

The above referenced submittal dated May 4, 1988, is approved for platting purposes. Any proposed subdivision will require an executed Subdivision Improvements Agreement prior to the City Engineer's sign-off of the Final Plat if infrastructures are required.

All site development of lots will require a separate detailed drainage and grading plan submittal, with the drainage scheme consistent with this approved plan.

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

Cordially,

Roger A. Green, P.E.

C.E./Hydrology Section

xc: Robert Kastning, Jack Clifford & Co.

RAG/bsj



WEISS-HINES ENGINEERING, INC. =

October 16, 1987

Mr. Fred Aguirre City of Albuquerque Hydrology Section POB 1293 Albuquerque, NM 87103

Dear Fred:

This is a request for a variance from the Master Drainage Plan (Bohannan-Huston, August 1982) for Clifford Industrial Park (Zone Atlas C-17).

A Grading/Drainage Plan was approved February 10, 1986 for Washington Business Park, a 23-lot development located at the northeast corner of Washington Street and Washington Place, N.E. The scope of this project was reduced to 8 lots and a second Drainage/Grading Plan was approved June 19, 1986. Both the 23-lot and the 8-lot plans used a runoff coefficient of 0.88 in the calculations which was higher than the 0.70 used in the Master Plan calculations. The 8-lot approval was made contingent upon any further development addressing this runoff coefficient discrepancy.

A summary of the development of the site thus far is as follows (see accompanying site sketch):

° Lots 5-8, C = 0.88

 $^{\circ}$  Tract B-2, Phase I, C = 0.70

We are proposing developing the remainder of the site so that the total developed peak discharge will be in compliance with the Master Plan. This will be accomplished as follows (see accompanying calculations):

 $^{\circ}$  Lots 1-4, C = 0.88

 $^{\circ}$  Tract B-3, C = 0.88

 $^{\circ}$  Tract B-2, Phase II, C = 0.70

° Construction of a detention pond on Tract B-2, Phase II, which along with a similar pond existing on Tract B-2, Phase I, will limit discharge from the total site (16 acres) to an acceptable peak rate.

MENTALE 37110 (50

CIVIL ENGINEERING / HYDROLOGY / ENVIRONMENT 1100 ALVARADO N.E. ALBUOUEROUE, NEW MEXICO 87110

Mr. Aguirre October 16, 1987 Page Two

This plan will establish the site's peak discharge rate at the same level planned for in the Master Plan to comply with the downstream capacities of drainage structures in Clifford Industrial Park. If we can provide any further information or data regarding this request, please don't hesitate to call.

Sincerely,

WEISS-HINES ENGINEERING, INC.

Steve Clark

SC/tdq

Attachments

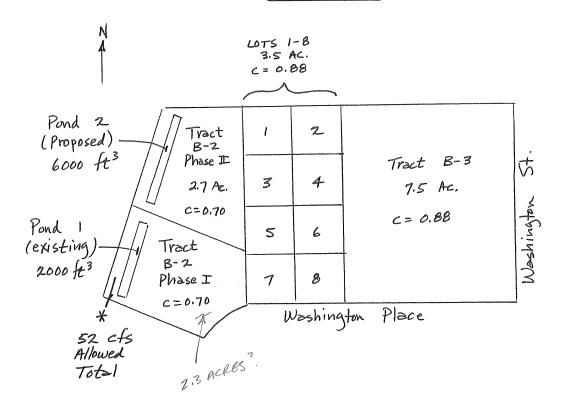
cc: Frank Gauer

Jack Clifford & Co.

Jim Lewis

Schlegel Lewis Nelson Brawley

Architects



• Per Bohannan-Huston Master Drainage Plan, total allowed peak flow at C = 0.70 at Point \*:

$$Q = CIA = (0.70)(4.65)(7.5 + 3.5 + 2.2 + 2.7) = 52 CFS$$

• Free Discharge Lots 1-8 and Tract B-3 at C = 0.88:

$$Q = CIA = (0.88)(4.65)(3.5 + 7.5) = 45 cfs$$

Discharge allowed Tract B-2 to total 52 cfs at Point \*:

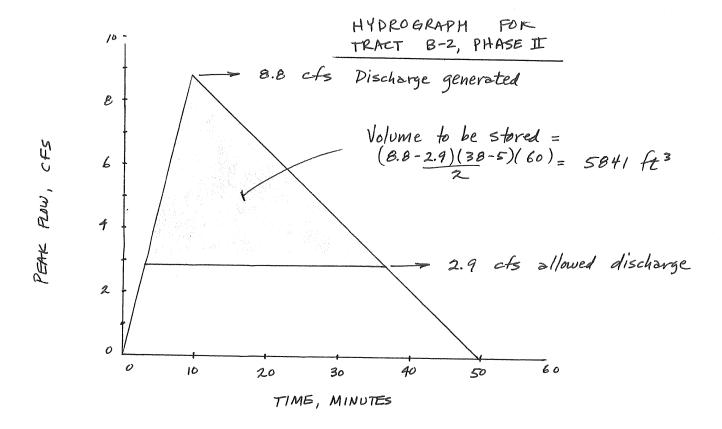
$$52 - 45 = 7 \text{ cfs}$$

- Discharge Tract B-2, Phase I = 4.1 cfs with Pond 1
- Discharge allowed Tract B-2, Phase II to total 7 cfs:

$$7 - 4.1 = 2.9 \text{ cfs (Phase II allowed)}$$

• Discharge Tract B-2, Phase II at C = 0.70:

$$Q = CIA = (0.70)(4.65)(2.7) = 8.8 \text{ cfs (Phase II allowed)}$$



Pond Size Proposed Phase II, Tract B-2: (300')(20')(1') = 6000 CF



P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

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

June 19, 1986

Steve Clark Weiss-Hines Engineering, Inc. 1100 Alvarado, NE Albuquerque, New Mexico 87110

RE: REVISED DRAINAGE REPORT OF WASHINGTON BUSINESS PARK, RECEIVED MAY 30, 1986 FOR PRELIMINARY PLAT APPROVAL (C17/D1U)

Dear Steve:

The above referenced submittal, revised June 16, 1986, is approved for Preliminary Plat. The existing infrastructure listing approved by DRB will need to be revised appropriately.

The approved Master Plan for Clifford Industrial Park assumed 72% impervious for the watershed under developed conditions. Your Drainage Report assumes 93% impervious. If the remaining watershed is also proposed to be developed with more than 72% impervious area, then the downstream stormdrain systems must be analyzed for capacity with runoff greater than originally designed for.

Final Plat sign-off by the 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

cc: Jim Folkman, Jack Clifford & Company Jim Lewis, Schlegal, Lewis Architects

RAG/bsj

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Weiss-Hines Engineering, Inc.

DATE RECEIVED:

ECETAED:

RECEIVED BY:



P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

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

February 10, 1986

Steve Clark Weiss-Hines Engineering, Inc. 1100 Alvarado, NE Albuquerque, New Mexico 87110

RE: DRAINAGE & GRADING PLAN OF WASHINGTON BUSINESS PARK RECEIVED JANUARY 17, 1986 FOR PRELIMINARY PLAT APPROVAL (C-17/D1U)

Dear Steve:

The above referenced submittal, dated January 14, 1986, is approved for Preliminary Plat. Plat should identify all access easements for Lots 1 thru 23 as drainage easements also.

Before Final Plat sign-off by City Engineer, an executed Subdivision Improvements Agreement is needed.

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

Cordially,

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

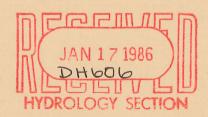
Roger A. Green, PE

cc: Jack Clifford & Company
P.O. Box 35640 Station D 87176

RAG/bsj

MUNICIPAL DEVELOPMENT DEPARTMENT





January 17, 1986

Mr. Carlos Montoya, P.E. Design Hydrology Section 123 Central N.W. Albuquerque, NM 87102

Re: Review of Washington Business Park (DRB #85-726)

Dear Mr. Montoya:

In response to your letter dated January 10, 1986, the three missing items are addressed as follows:

- 1. Plans are stamped, dated, and signed.
- 2. Grading Plan has been submitted.
- 3. The Master Plan for Clifford Industrial Park does include runoff from Tract 'B', and the 35' drainage easement on the west property line was sized according—ly.

If you have any questions regarding these items, please call me at 266-3444.

Thank you,

Steve Clark

Weiss-Hines Engineering, Inc.

SC:tdq



P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

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

January 10, 1986

Steve Clark Weiss-Hines Engineering, Inc. 1100 Alvarado, NE Albuquerque, New Mexico 87110

> RE: PRELIMINARY REVIEW OF WASHINGTON BUSINESS PARK RECEIVED JANUARY 8, 1986 (C-17/D1U)

Dear Mr. Clark:

A preliminary review of the referenced drainage plan has shown the following items missing.

- 1. Require engineer stamp, signature, and date.
- 2. Require proposed grading for the site.
- Please address if the master plan includes developed runoff from Tract B. If the master plan does not include this information, then downstream capacity will need to be addressed.

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

