



City of Albuquerque
P.O. Box 1293 Albuquerque, NM 87103
Public Works Department

November 30, 1998

Certificate of Work Order Completion

City Engineer
600 Second St.
Plaza Del Sol
Albuquerque, NM 87102

Re: Montano Business Center Project No.: 5652.81

Dear Sir:

This is to certify that Project No. 5652.81 has been completed according to approved plans and construction specifications. Please be advised this Certificate of Work-Order Completion does not constitute acceptance of the city infrastructure until all requirements of the subdivision improvements agreement have been satisfied and a Certificate of Completion and Acceptance is issued by the City Engineer.

The project is described as follows:

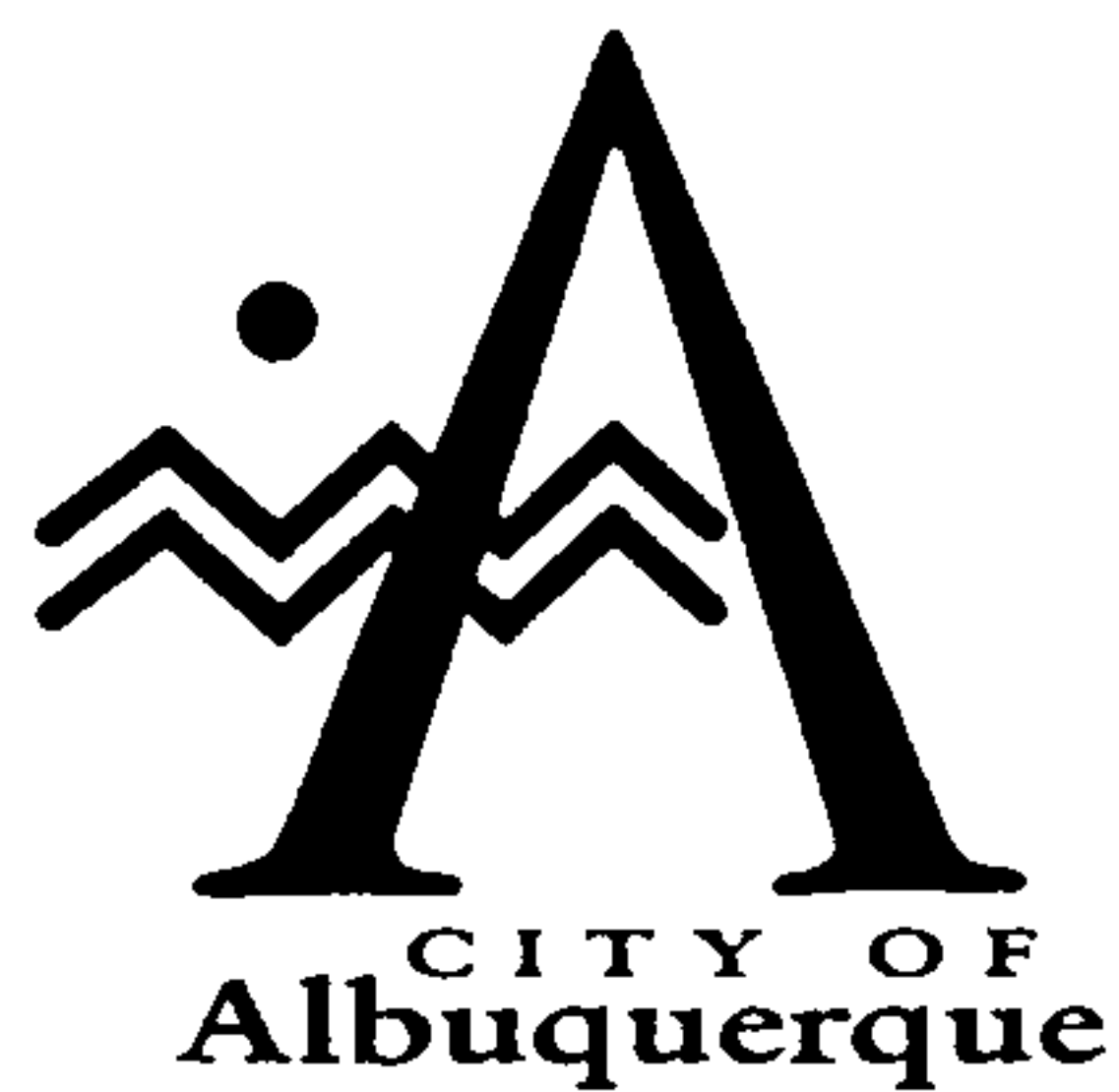
Removed existing curb and gutter on the north side of Montano Boulevard from approximately 240' west of 2nd Street to 480' west of 2nd Street. Built a right turn and decel lane with median improvements.

The contractor's correction period will begin the date of the City Engineers Certificate of Completion and Acceptance letter and is effective for a period of one (1) year.

Sincerely,

Peter Chang 12/1/98

Peter Chang, P.E.
Acting Chief Construction Engineer
Public Works Department



November 27, 1998

J. Martin Lewis
Easterling & Associates, Inc.
2600 The American Rd. SE Suite 100
Rio Rancho, New Mexico 87124

RE: ENGINEER CERTIFICATION FOR MONTANO BUSINESS CENTER PHASES I & II
(F15-D27) CERTIFICATION STATEMENT DATED 10/2798

Dear Mr. Lewis:

Based on the information provided on your October 28, 1998 submittal, Engineer Certification for the above referenced site is acceptable.

Please be advised that the final Certificate of occupancy will not be release until we receive concurrence for the work done within the City R/W.

If I can be of further assistance, please feel free to contact me at 924-3986.

C: Andrew Garcia
File ✓

Sincerely

Bernie J. Montoya CE
Associate Engineer

Good for You, Albuquerque!



Easterling & Associates, Inc.

2600 American Rd. S.E., Suite 100
Rio Rancho, New Mexico 87124
(505)898-8021 FAX (505) 898-8501
eai_engr@swcp.com

October 27, 1998

768-2574

Hydrology Division
City of Albuquerque
Development Services Center
P.O. Box 1293
Albuquerque, NM 87103

**Re: Engineer's Certification of Grading & Drainage Plan
Montaño Business Center, Phase 2
(Tract 1-C, Montaño y Quatro)
F15/D27, DRB 97-32**

Dear Sir:

Please find attached the following items:

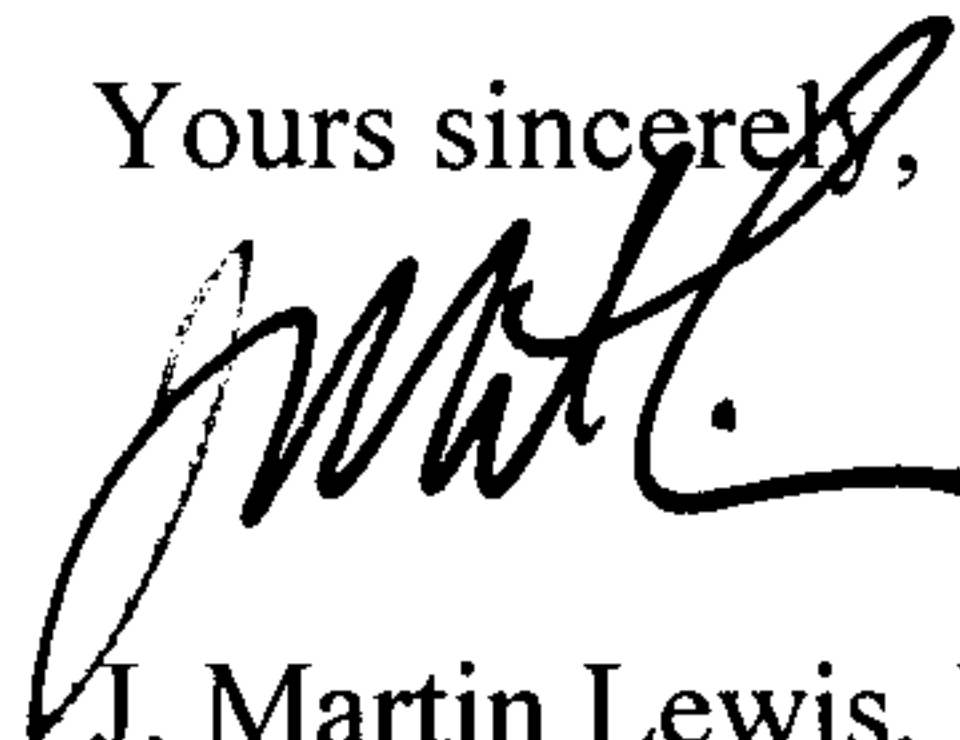
- Drainage Information Sheet
- Grading & Drainage Plan with Engineer's Certification

Tract 1-C, Montaño y Quatro, has been developed in two phases, with Phase 2 construction following closely behind Phase 1. Separate Grading & Drainage Plans were submitted for each phase (1/30/97 and 10/16/97, respectively). The construction of the site improvements and associated grading and drainage improvements for Phase 2 completes the development (please see attached plan). All the permanent site grading and drainage improvements required to serve both Phases 1 and 2 have now been built. The attached certification covers these improvements built in Phase 2 of the project. An engineer's certification for Phase 1 has been previously submitted (Easterling & Associates, 7/8/97).

Based on the above, we hereby request permanent Certificate of Occupancy (C.O.) release for Phase 2 (211 Montaño NW). We also request permanent C.O. release for Phase 1 (201 Montaño NW), if not already granted.

Thank you for your time and consideration.

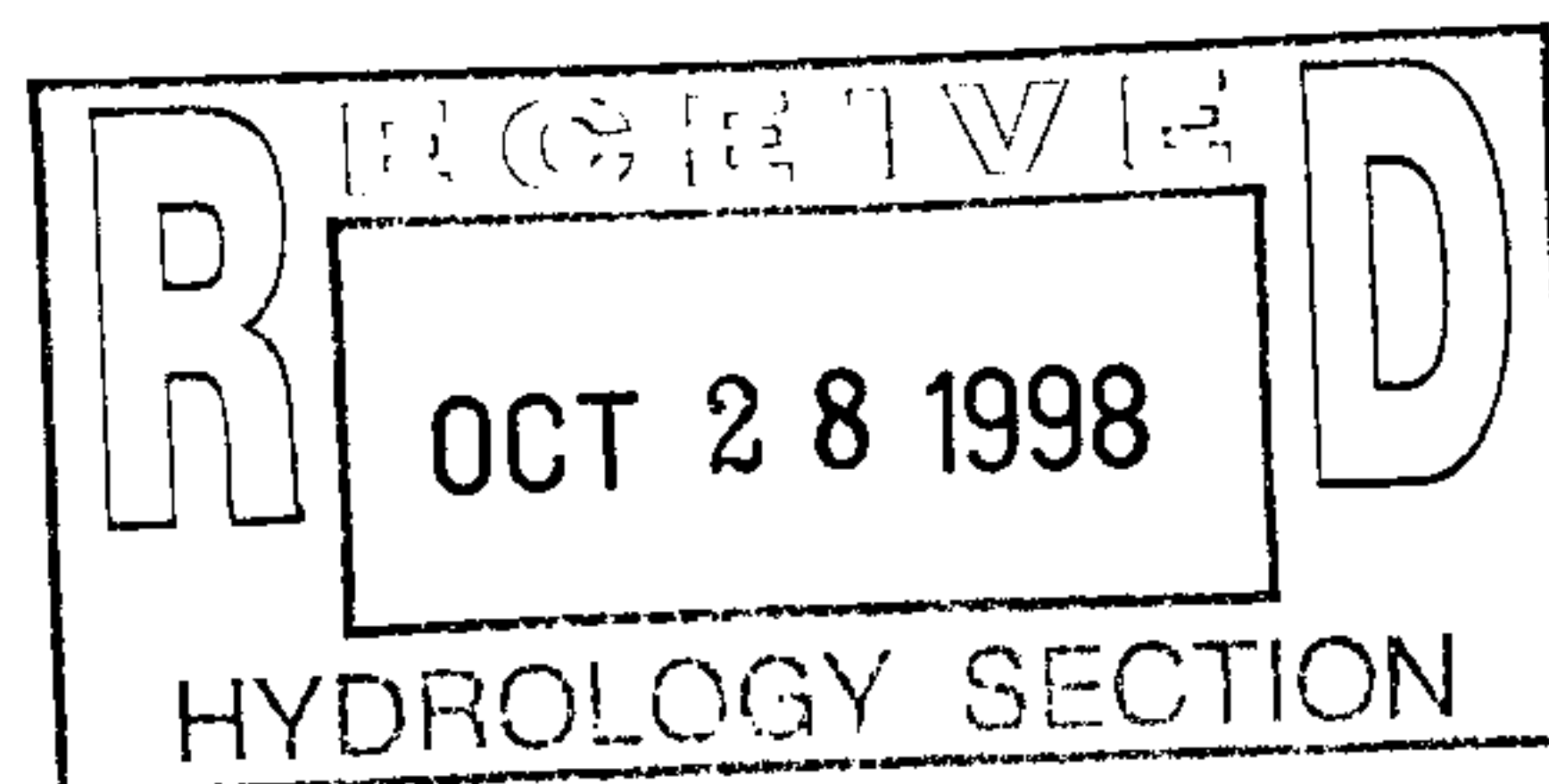
Yours sincerely,

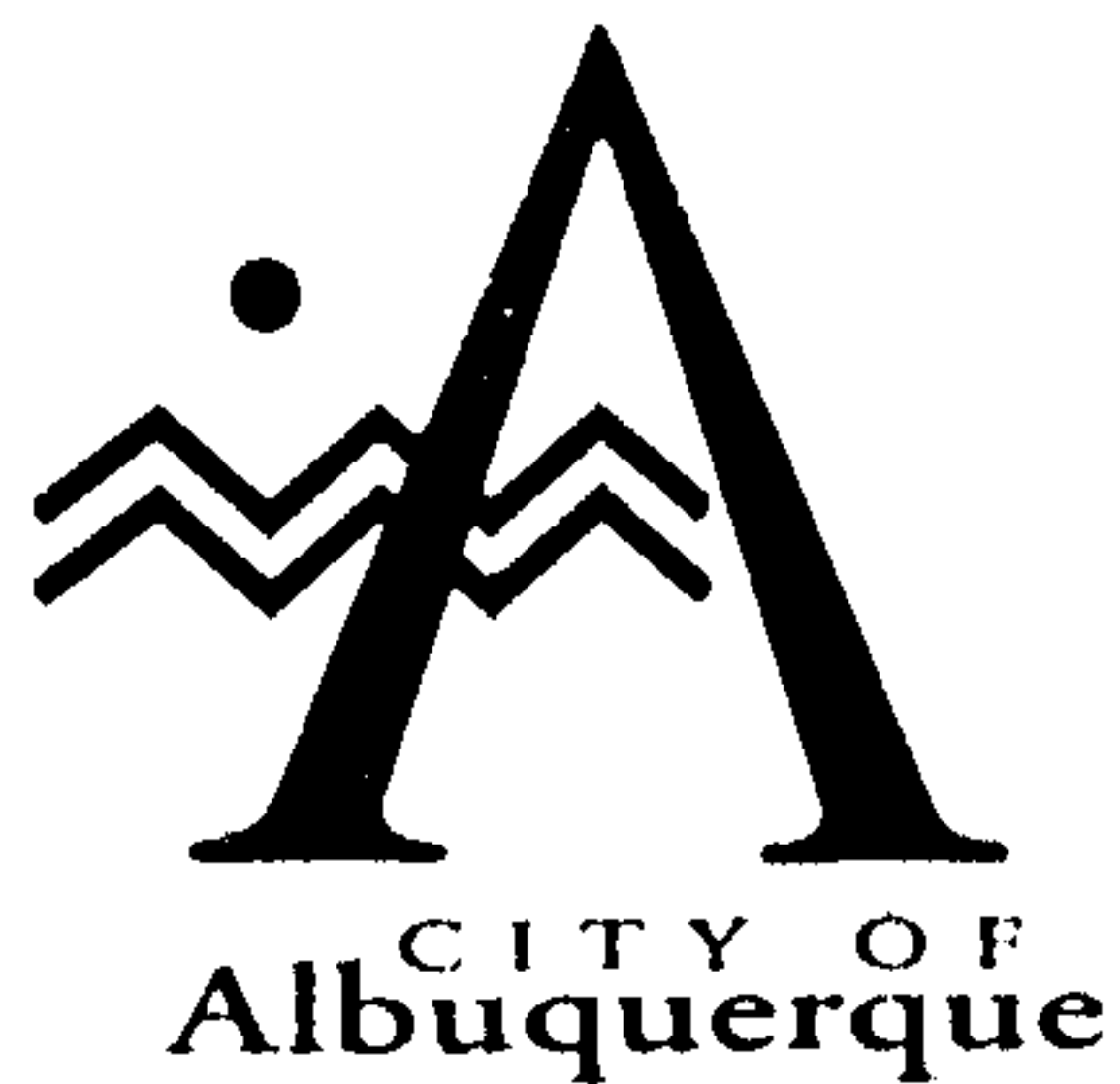


J. Martin Lewis, P.E.
Project Engineer

JML:jj
EAI Project No. 4480.3

cc: George Brunacini





Martin J. Chávez, Mayor

November 7, 1997

J. Martin Lewis
Easterling & Associates, Inc.
2600 The American Road SE
Rio Rancho, NM 87124

**RE: MONTANO BUSINESS CENTER PHASE 2 (F15-D27). UPDATED GRADING
AND DRAINAGE PLAN FOR SITE DEVELOPMENT PLAN FOR BUILDING
PERMIT, BUILDING PERMIT, AND SO #19 PERMIT APPROVALS.
ENGINEER'S STAMP DATED OCTOBER 6, 1997.**

Dear Mr. Lewis:

Based on the updated information provided on your August 20, 1997 submittal, the above referenced project is approved for Site Development Plan for Building Permit, Building Permit, and SO #19 Permit.

A separate permit is required for construction within the City right-of-way. A copy of this approval letter must be on hand when applying for the excavation permit.

Prior to Certificate of Occupancy approval, an Engineer's Certification will be required.

If I can be of further assistance, please feel free to contact me at 924-3984.

Sincerely,

Lisa Ann Manwill, P.E.
Hydrology

c: Arlene Portillo
Andrew Garcia
File

Good for You, Albuquerque!





CITY OF
Albuquerque
Public Works Department

February 3, 1997

Martin J. Chávez, Mayor

Robert E. Gurulé, Director

R.P. Bohannon
Chuck Easterling & Assoc
10131 Coors Rd. NW
Suite H-7
Albuquerque, NM 87114

**RE: MONTANO BUSINESS CENTER (F15-D27). GRADING AND DRAINAGE PLAN
FOR BUILDING AND SO #19 PERMIT APPROVALS. ENGINEER'S STAMP
DATED 1-30-97.**

Dear Mr. Bohannon:

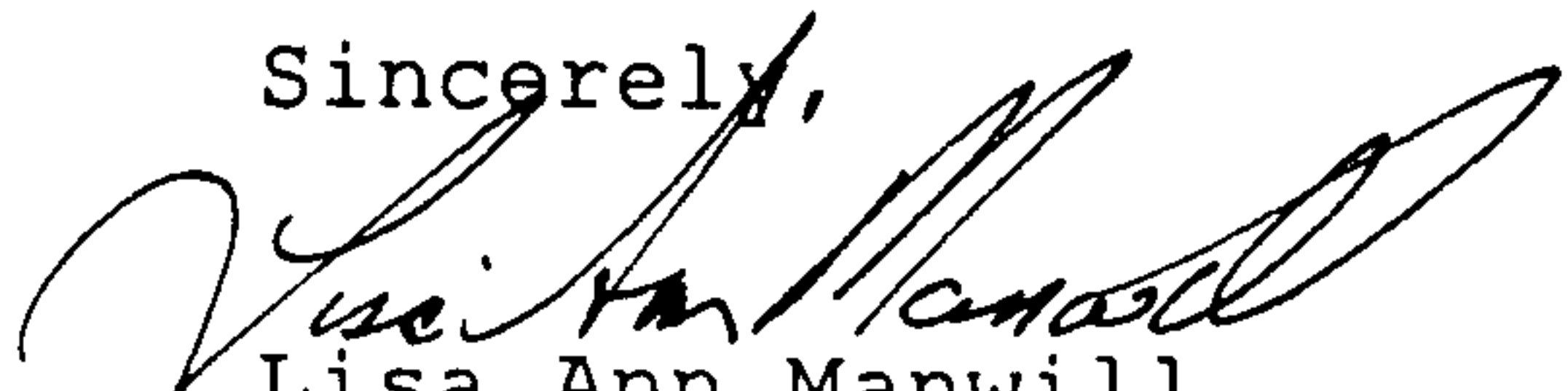
Based on the information provided on your January 31, 1997
submittal, the above referenced project is approved for Building and
SO #19 Permits.

Prior to Certificate of Occupancy approval, an Engineer's
Certification will be required. Please indicate on the Engineer's
Certification that the 8-inch ductile iron pipe is plugged until
phase 2 development.

A separate permit is required for construction within City right-of-
way. A copy of this approval letter must be on hand when applying
for the excavation permit.

If I can be of further assistance, please feel free to contact me at
768-3622.

Sincerely,

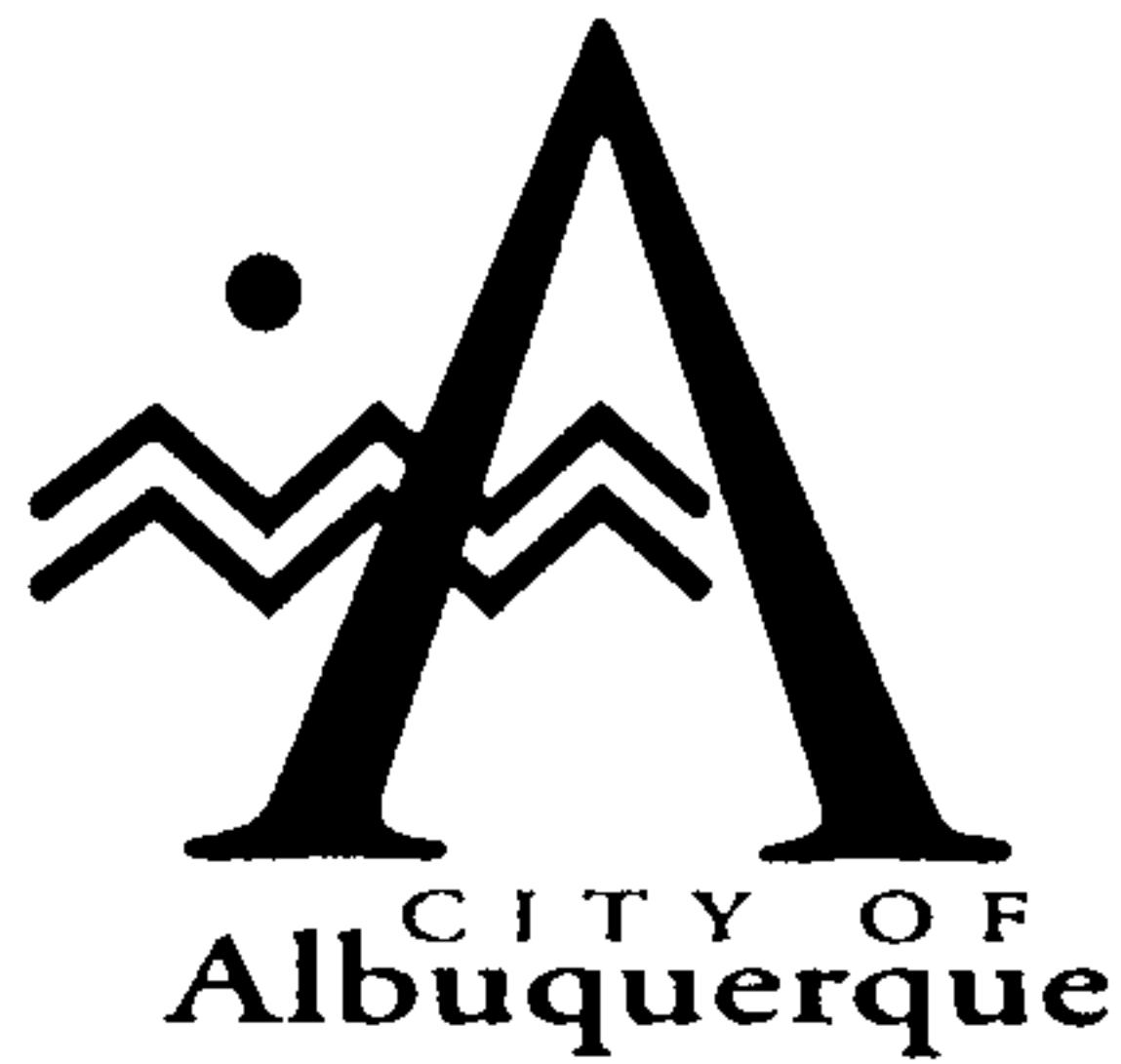

Lisa Ann Manwill
Engineering Assoc./Hyd.

c: Arlene Portillo
Andrew Garcia

File

Good for You, Albuquerque!





January 23, 1997

Martin J. Chávez, Mayor

R.P. Bohannon
Chuck Easterling & Assoc
10131 Coors Rd. NW
Suite H-7
Albuquerque, NM 87114

RE: MONTANO BUSINESS CENTER (F15-D27). CONCEPTUAL GRADING AND DRAINAGE PLAN FOR SITE DEVELOPMENT PLAN FOR BUILDING PERMIT APPROVAL. ENGINEER'S STAMP DATED 1-17-97.

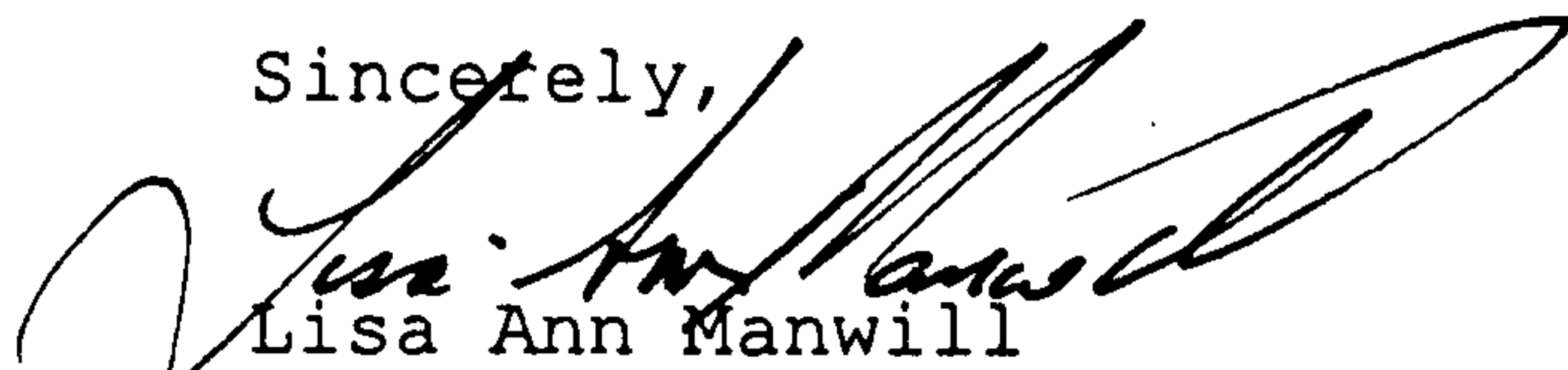
Dear Mr. Bohannon:

Based on the information provided on your January 14, 1997 submittal, City Hydrology has the following comment:

In the ultimate condition, free discharge of this site is not warranted. The proposed down stream facilities do not have the capacity for free discharge. The City is in the process of determining an allowable discharge rate per acre for this area. We expect to have the data by the end of next week. I will be certain to keep you updated.

If I can be of further assistance, please feel free to contact me at 768-3622.

Sincerely,

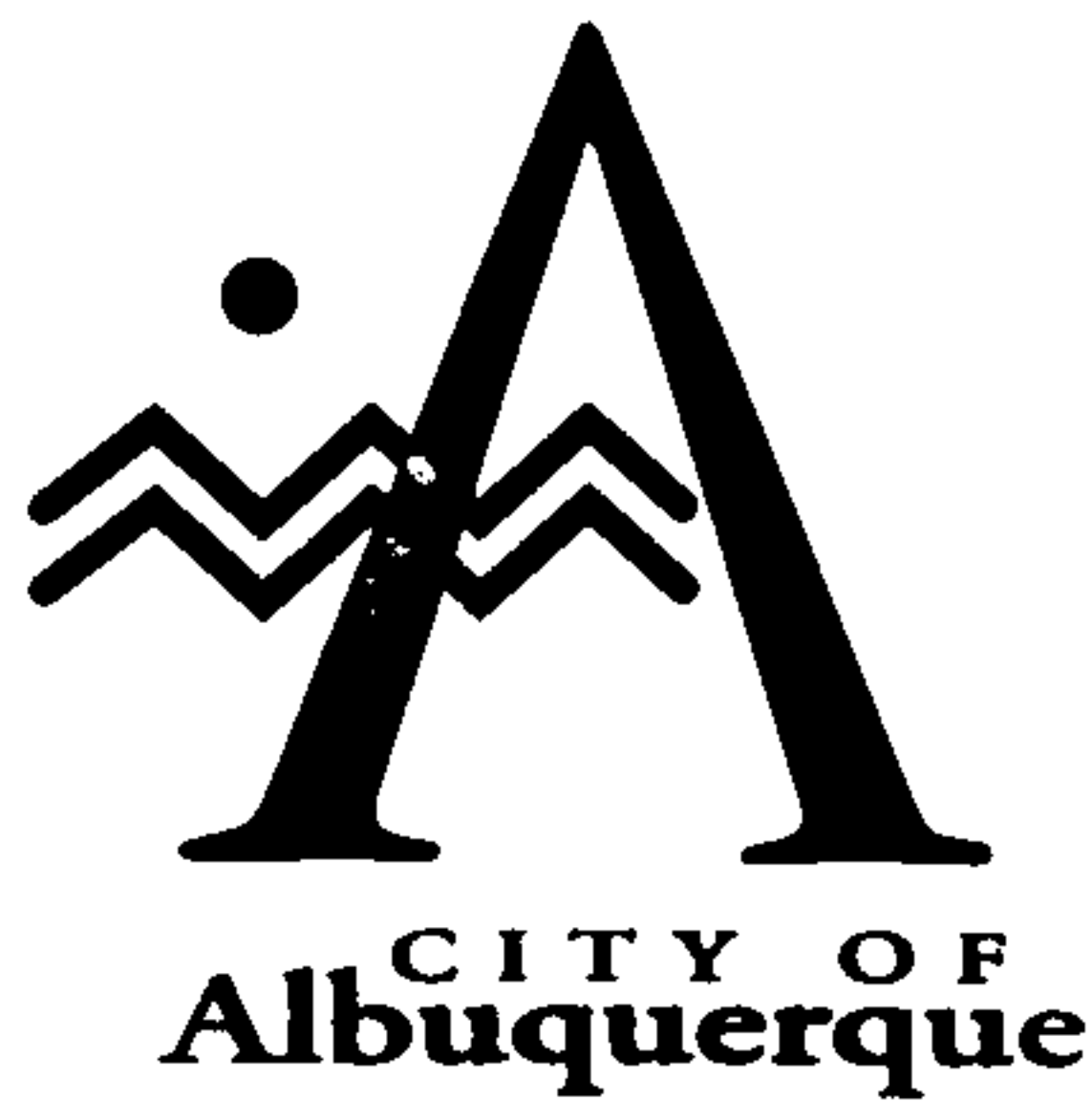


Lisa Ann Manwill
Engineering Assoc./Hyd.

c: Andrew Garcia
File

Good for You, Albuquerque!





November 1, 1996

Martin J. Chávez, Mayor

R.P. Bohannon
Chuck Easterling & Assoc
10131 Coors Rd. NW
Suite H-7
Albuquerque, NM 87114

RE: MONTANO BUSINESS CENTER (F15-D27). CONCEPTUAL GRADING AND DRAINAGE PLAN FOR SITE DEVELOPMENT PLAN FOR BUILDING PERMIT APPROVAL. ENGINEER'S STAMP DATED 10-24-96.

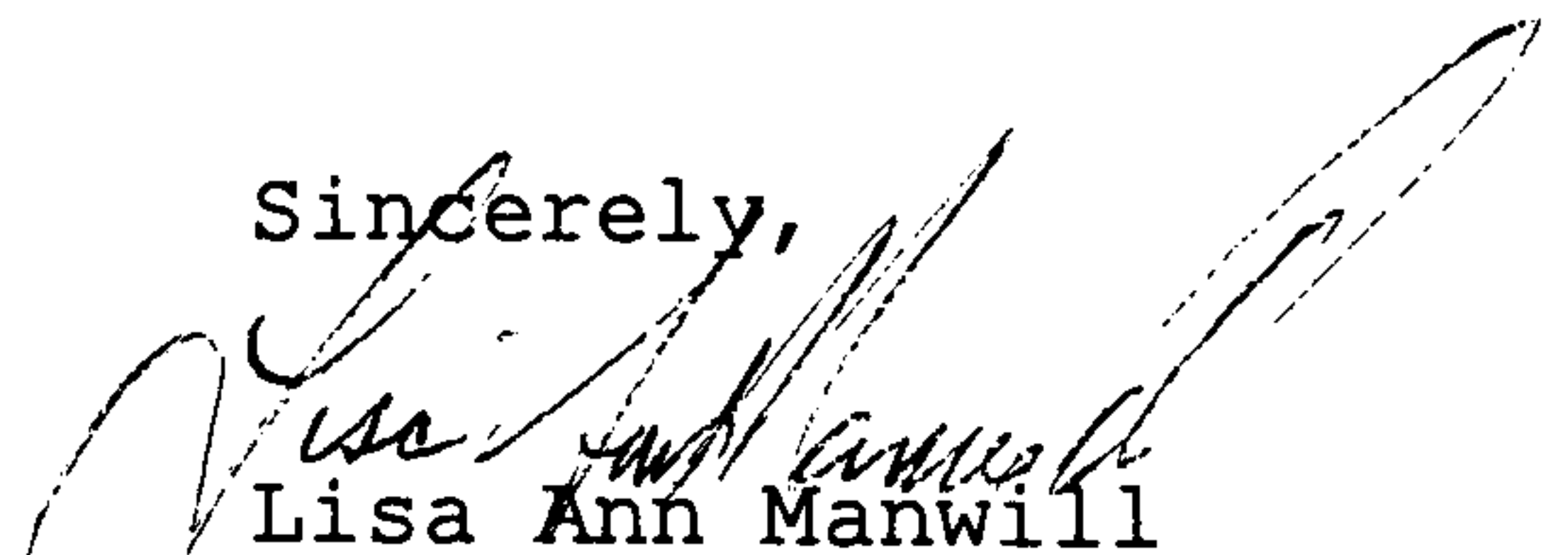
Dear Mr. Bohannon:

Based on the information provided on your October 25, 1996 submittal, the above referenced project is approved for Site Development Plan for Subdivision.

With your next submittal, please show the detail of the proposed sidewalk culvert. City Standard Drawing 2236 does not show the required 12-inch plug.

If I can be of further assistance, please feel free to contact me at 768-3622.

Sincerely,



Lisa Ann Manwill
Engineering Assoc./Hyd.

c: Andrew Garcia
~~File~~

Good for You, Albuquerque!



AHYMO PROGRAM (AHYMO194) - AMAFCA Hydrologic Model - January,
1994

RUN DATE (MON/DAY/YR) = 06/30/1997

START TIME (HR:MIN:SEC) = 16:26:50

USER NO.=

EASTERNM.I01

INPUT FILE = pond24c.hmi

** MONTANO Y QUATRO PHASE 2

** GRADING & DRAINAGE PLAN

** 6-27-97

** 100 YEAR 24 HOUR STORM

** INPUT FILE POND24c.HMI

*

START 0.0 HOURS

RAINFALL TYPE=-2 0.0 2.01 2.35 2.75 DT=0.05

COMPUTED 24-HOUR RAINFALL DISTRIBUTION BASED ON NOAA
ATLAS 2 - PEAK AT 1.40 HR.

DT = .050000 HOURS END TIME = 24.000000

HOURS

*

** Estimate pond volume required for site release rate of 0.5
cfs/ac

** Compute hydrograph for entire site, fully developed (Phases 1 &
2)

COMPUTE NM HYD

ID=1 HYDROGRAPH NO=101.0 DA=0.002839

%A=0.0 %B=0.0 %C=10.0 %D=90.0 TP=0.13

MASS RAINFALL=-1

K = .070850HR TP = .130000HR K/TP RATIO = .545000
SHAPE CONSTANT, N = 7.106420

UNIT PEAK = 10.344 CFS UNIT VOLUME = .9982 B =
526.28 P60 = 2.0100

AREA = .002555 SQ MI IA = .10000 INCHES INF =
.04000 INCHES PER HOUR

RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER
METHOD - DT = .050000

K = .104786HR TP = .130000HR K/TP RATIO = .806046
SHAPE CONSTANT, N = 4.440701

UNIT PEAK = .83761 CFS UNIT VOLUME = .9878 B =
383.55 P60 = 2.0100

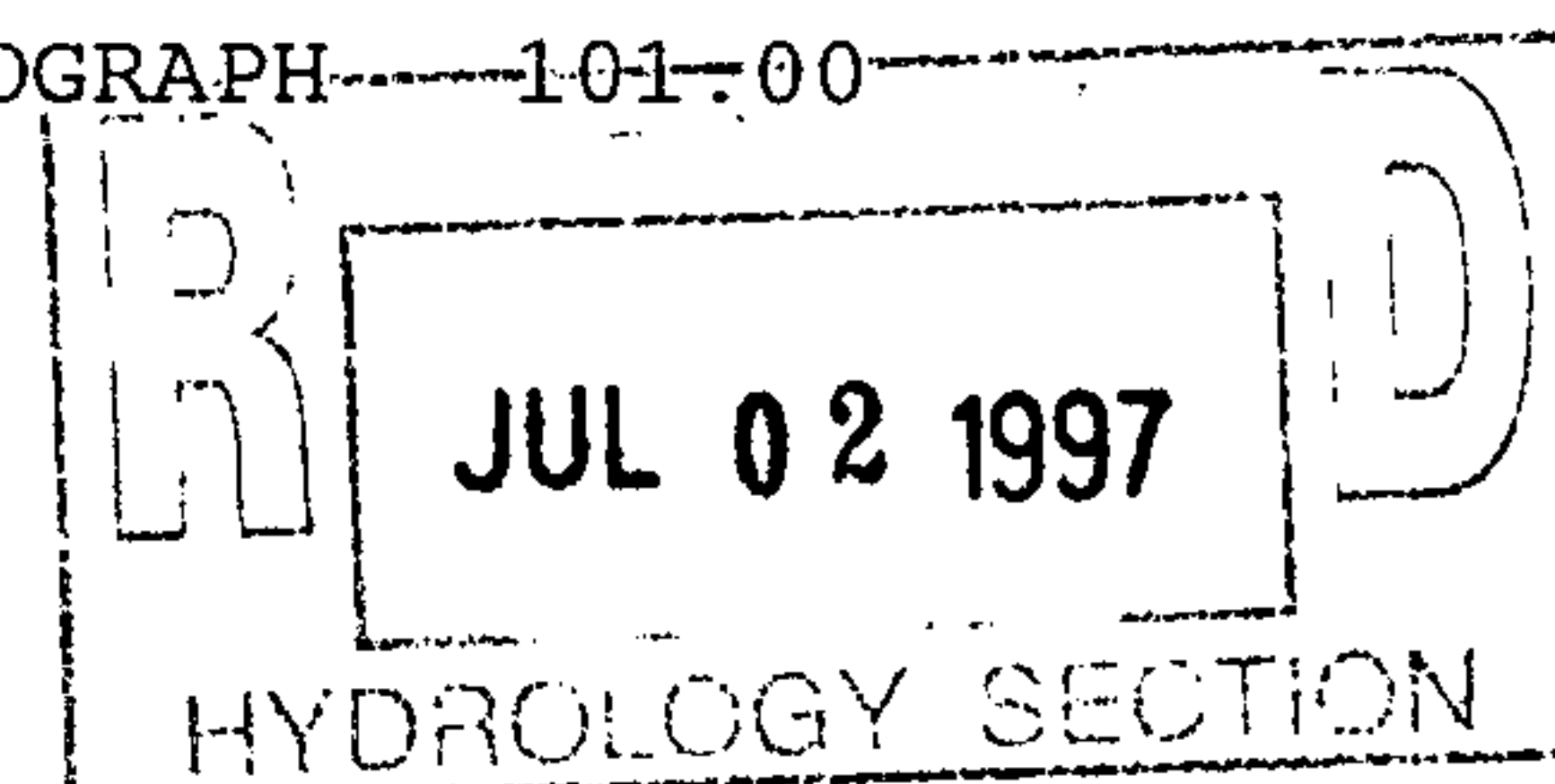
AREA = .000284 SQ MI IA = .35000 INCHES INF =
.83000 INCHES PER HOUR

RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER
METHOD - DT = .050000

PRINT HYD

ID=1 CODE=1

PARTIAL HYDROGRAPH-101-00



Easterling & Associates, Inc.

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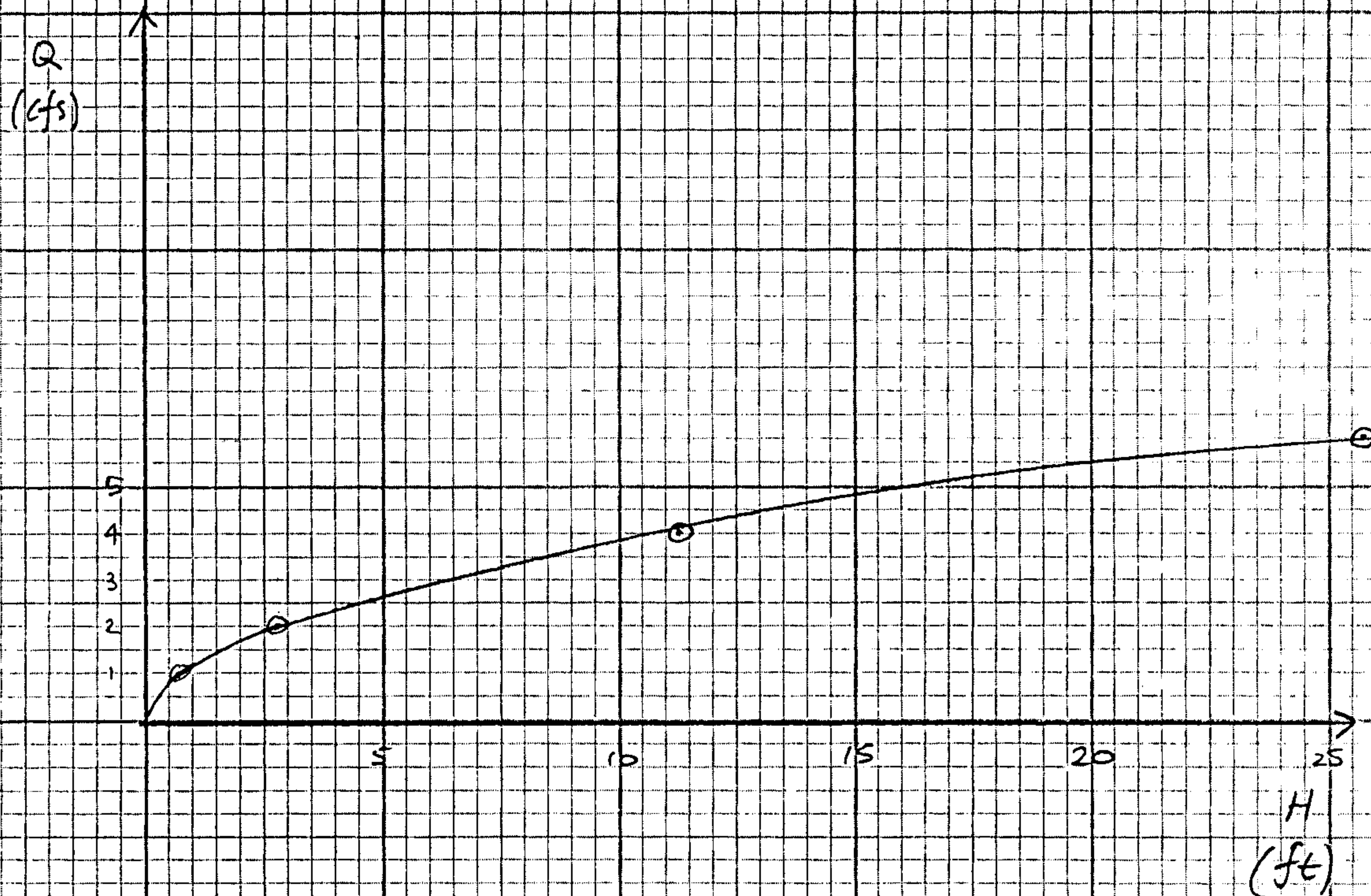
Phase 2
Project Name Tract 1-L, Montano Y Quatro
Project No. 1480 Date 2/13/97
Subject Capacity of exist. 12" SD,
4th St. to Subject Site
By JML Sheet 1 of 2

① Estimate head required to drive various flows in 12" SD

- $L = 762'$
- $n = 0.013$
- Neglect minor losses

Q (cfs)	H (ft)
1	0.7
2	2.8
4	11.3
6	25.3

② Plot Q vs H



Easterling & Associates, Inc.

• CONSULTING ENGINEERS •

Phase 2
Project Name Tract I-C, Montaña Y Quatro
Project No. 4480 Date 8/13/97
Subject Capacity of exist 12" SD
4th St. to Subject Site
By JML Sheet 2 of 2

3. Estimate pipe flows for various WSE's at sump inlet in Montaña Road

WSE	H	Q
70.59	1.93	1.6
71.50	2.84	2.0
72.00	3.34	2.1
72.20	3.54	2.2
72.42	3.76	2.3
72.60	3.94	2.4

(a) $H = WSE = 68.66$

Where 68.66 is the soffit elevation of the 24" SD into which the 12" discharges at 4th & Montaña.
(See attached plan excerpt)

(b) Given H, find Q from the Q vs H plot

4. Input the above WSE and Q values as ELEVATION / OUTFLOW data in AHYMO routing of flows through the Montaña Road inlet (See attached AHYMO output file POND24K.HMO)

Easterling & Associates, Inc.

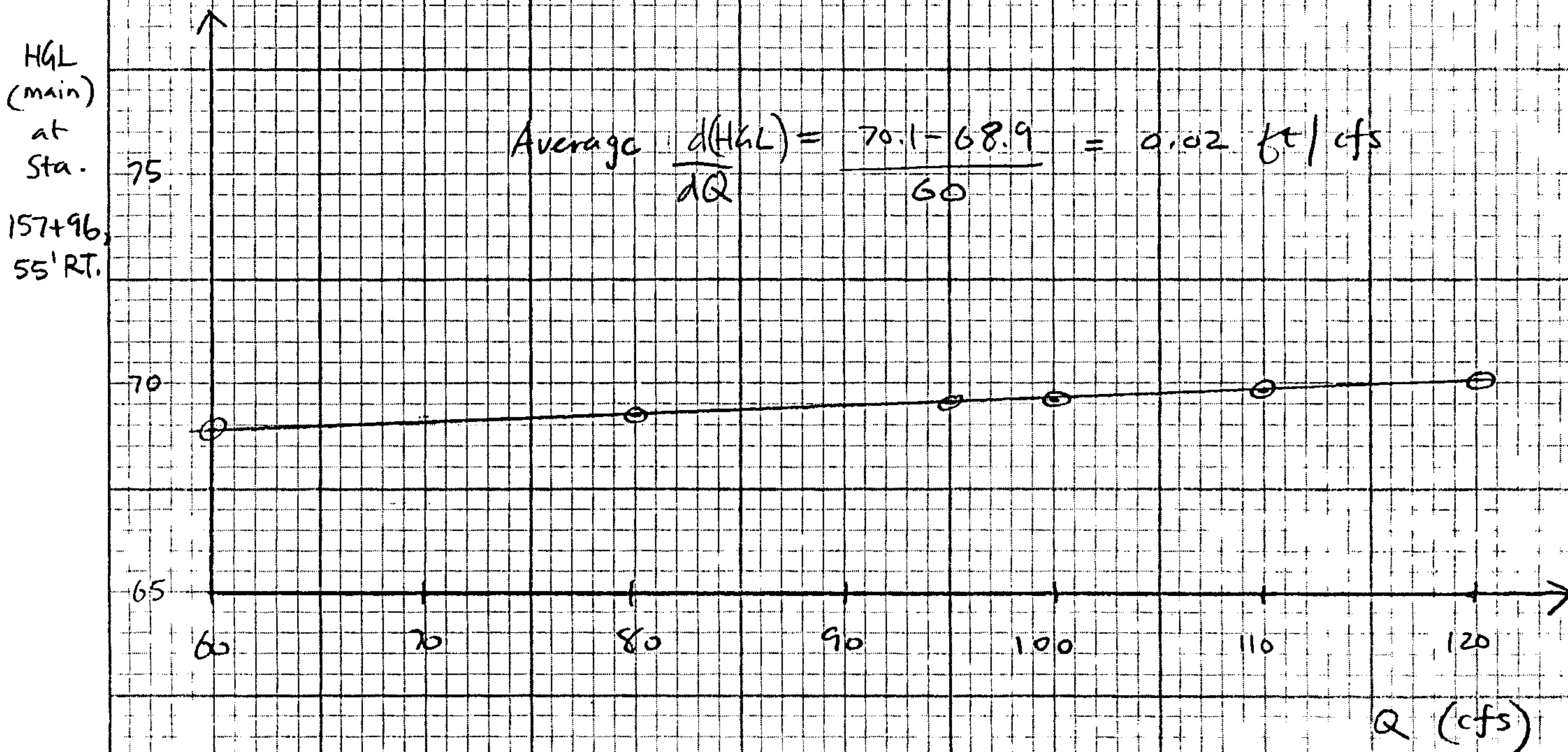
• CONSULTING ENGINEERS •

Phase 2
 Project Name Tract 1-C, Montaña Y Quatro
 Project No. 4480 Date 8/13/97
 Subject Sensitivity of HGL in 60" SD
to change in flow rate
 By Jmc Sheet 1 of 1

① Assume starting HGL = 68.51, Sta. 150+80, per Montaña Rd. Plans (Wilson & Co, 1986),
 calculate HGL in 60" SD at pt. of connection of 18" connector pipe

Q (cfs)	HGL (main)
60	68.9
80	69.2
95	69.5
100	69.6
110	69.8
120	70.1

② Plot HGL vs Q



AFTER WILSON & Co., 1986.

