HYDROLOGY F20/D6 NO PLANS

F 20/D6

NO PLANS

CITY OF ALBUQUERQUE

ALBUQUERQUE, NEW MEXICO

RECEIVED
JAN 24 1980
CITY ENGINEER

INTER-OFFICE CORRESPONDENCE January 24, 1980 REF. NO._____

TO: Richard Heller, City Engineer

FROM: Bruno Conegliano, Assistant City Engineer/Hydrology BC

SUBJECT: Camino Del Sol NE

I am enclosing copies of the addendum to Valle Grande Phase II, and of the computations performed by Billy Colsby, for the flows at the intersection. The total flows amount will be 140 c.f.s., 106 c.f.s. from Academy Acres 2 & 4, and 34 c.f.s. from Gary Swearenger's Development.

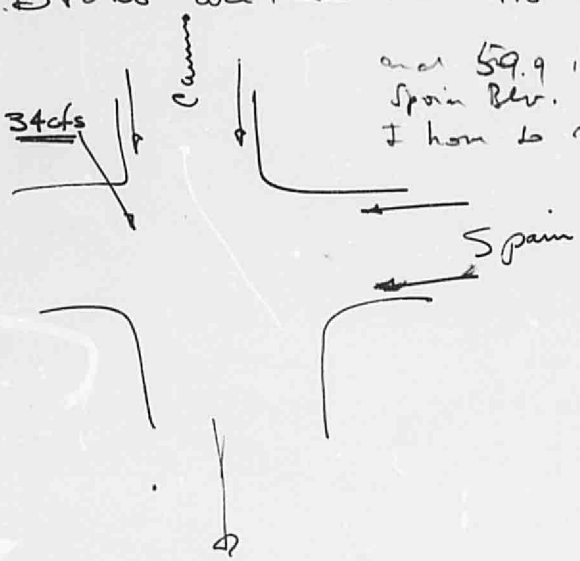
BC/lc
encl.

I have been in the field & I am of the opinion that Billy's assumption that the flows from Academy Estates 2 will have passed by the time the flows from Academy Estates 4 arrive is not justified. I computed the 10 yrs flows in Camino del Sol in 40.5 cfs and 59.9 in Spain Blvd.

Bruno - Are these the Q_{10} or Q_{100}.

RS&A 1/25

I have to discuss Bill Lothen



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

MAYOR
David Rusk

April 27, 1979

Mr. Wiley R. Smith, P.E.
Meurer, Serafin, and Meurer, Inc.
2801 Wyoming Blvd. N.E., Suite F
Albuquerque, New MEXICO 87110

Re: Valle Grande Apartments - Phase 2

Dear Mr. Smith:

I have reviewed the Addendum No. 1 for the captioned drainage study and I am in agreement. The drainage plan is therefore hereby approved.

Very truly yours,

Bruno Conegliano
Assistant City Engineer-Hydrology

BC/ms

cc - Dick Heller
Rich Leonard
Drainage File

AN EQUAL OPPORTUNITY EMPLOYER

MEURER, SERAFINI AND MEURER, INC.

CONSULTING ENGINEERS • SURVEYORS • PLANNERS

2601 WYOMING BLVD., N.E., SUITE F • ALBUQUERQUE, NEW MEXICO 87110 • (505) 292-1936

April 26, 1979

Mr. Bruno Conegliano
ACE-Hydrology
City of Albuquerque
City Hall, 4th Flood
Albuquerque, New Mexico 87102

RE: ADDENDUM NO. 1 TO DRAINAGE STUDY (SUBMITTED APRIL 4, 1979)
VALLE GRANDE APARTMENTS

Dear Bruno:

As a result of our conversation of April 25, 1979 in your office concerning the above-captioned project, I am submitting the information you requested as follows:

1. The new drainage study dated April, 1979 was submitted as a result of a meeting with Mr. R. Heller, City Engineer, in February 1979 after review of a previous drainage report for the development dated June, 1978. At this meeting, with Mr. Heller, our client agreed to provide one detention pond in place of the individual site ponds provided that the City of Albuquerque would extend a storm sewer up Spain Road, N.E. at no cost to our client. A connection to this storm sewer would then be made by our client to make this pond function as a detention pond for the ultimate development.

2. As stated, our client desires to develop only Phase II at this time. Since the sotrm sewer is not yet extended, this detention pond can act as a retention pond for Phase II. A review of Phase II indicates that 7.64 acres drains into this pond. Since the pond capacity without overflow is 50,788 cubic feet and total in-flow is 48,300 cubic feet, the existing detention pond can be used as a retention pond for Phase II (see Attachment & Figure IIIa).
All offsite flows will be retained in temporary ponds shown on Figure II, as stated in the report. The flows from sub-areas F-1 and F-2 are contained in retention pond F-2 (see Figure IIIa).

3. Please note that the previously approved Drainage Report for Valle Grande Apartments (Genge/Murray-McCormick) allows for 17.5 c.f.s. flow from the off-site area retention pond at the east boundary of the existing Valle Grande apartments. This Drainage Report reduces this existing 17.5 c.f.s. flow onto Spain Road N.E. to 10.5 c.f.s. (3.8 c.f.s. from Sub-area G-3 and 6.7 c.f.s. from Sub-area G-1 and G-2) as shown on Figure IIIa. This should improve the problem flooding that can occur on Spain Road N.E. until such time as the City can extend a storm sewer up Spain Road N.E.

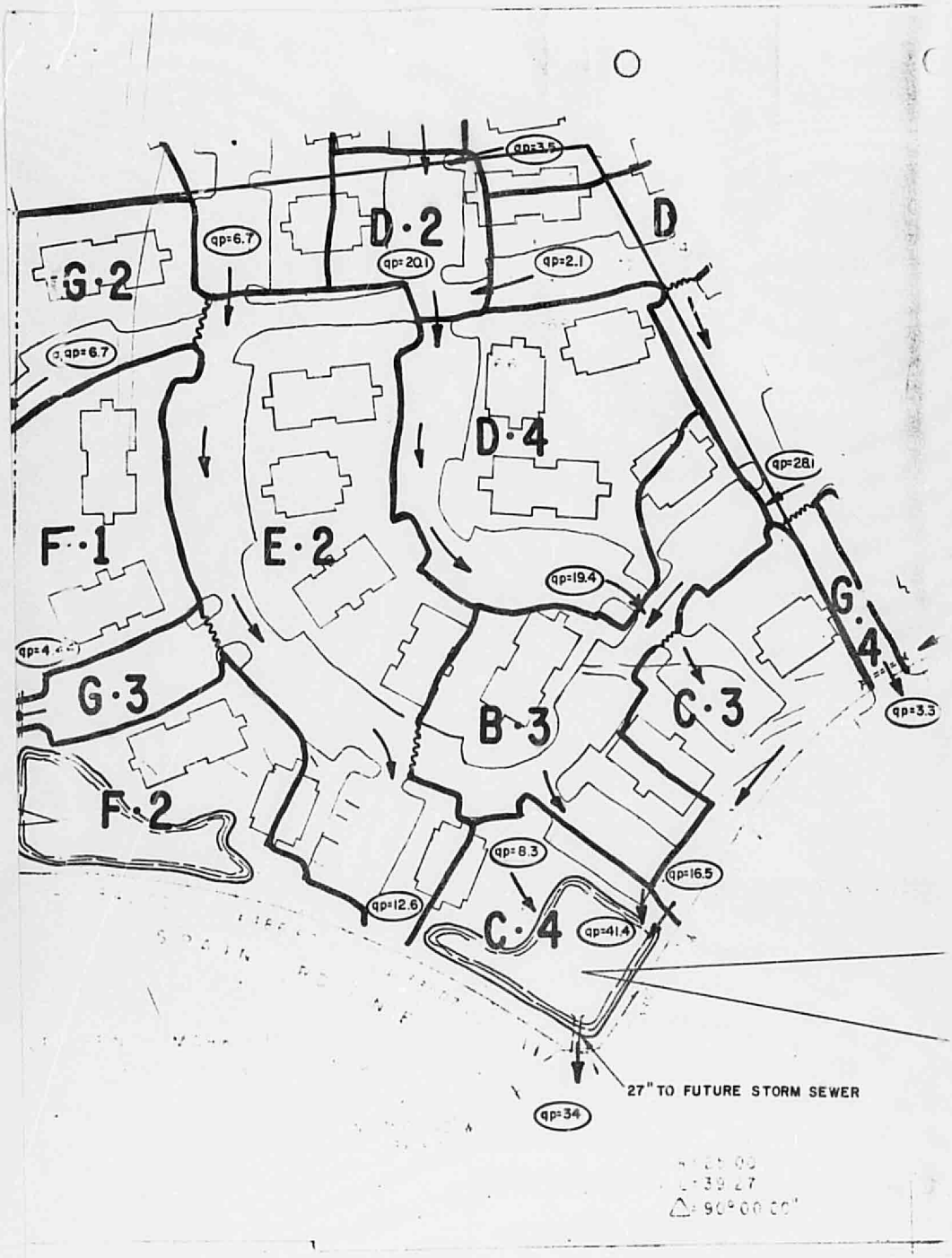
If I can be of assistance in answering any further questions, please call.

Sincerely yours,

Wiley R. Smith, P.E.
Project Engineer

WRS/th

Enclosure


qp=3.5
D·2
D
qp=6.7
qp=20.1
qp=2.1
G·2
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D·4
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F·1
E·2
qp=19.4
G·4
qp=4
G·3
B·3
C·3
qp=3.3
F·2
qp=8.3
qp=16.5
qp=12.6
C·4
qp=41.4
27" TO FUTURE STORM SEWER
qp=34

CITY OF ALBUQUERQUE, NEW MEXICO
CITY ENGINEER'S OFFICE

MEMORANDUM - January 23, 1980

TO: Bruno Conegliano, Assistant City Engineer/Hydrology
FROM: William Leithem, Civil Engineer/Design W.L.
SUBJECT: DRAINAGE AT SPAIN AND CAMINO DEL SOL, N.E.

In reference to my memo to you dated November 21, 1979, I am still awaiting storm water flow information for the subject intersection. Please convey this to me so that I may complete the design of the storm drain system.

WL/tsl

cc: R. S. Heller, City Engineer
H. R. Orr, Principal Assistant/City Engineer

Total $L = 1300$ ft. 4% grade
$V = 1.7$ fps $T_c = 13$ min

Total $T_c = 23$ min.

$I_{100} = \frac{189}{t+25} = \frac{189}{23+25} = \frac{189}{48} = 3.94$ inches

$CIA = 0.60 \times 3.94 \times 44 = 104$ cfs

Since the travel time for Unit 4 is 6 min the contributing flows will have already past when Unit 2 contributes; however total from Unit 4 is also 104 cfs

Total Q at Spain and Camino is 104 cfs.

I will be in tomorrow morning and we can go over this.

Billy Goolsby

Arrival 8:30 AM
Leave 12:30 PM

12/3/79

Intersection of Spain Road and Camino Del Sol.

Contributing Areas

Unit 4 50 Ac.
Unit 2 44 Ac.

Unit 4 Northern section has 30 cfs into street at intersection of Camino Del Sol and Moon
- travel time to Spain is:

L = 1356 ft. 4% grade
V = 4 fps Tc = 6 min.

Unit 4 Southern section has 74 cfs into Street at intersection of Lona Lane and Moon St.
- travel time to Spain & Camino is:

L = 1300 ft. 3% grade
V = 3.5 fps Tc = 6 min.

Runoff from Unit 2 at Spain & Camino is

Overland max = 10 min.

0488