

WILSON & COMPANY

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10 March 1997

Mr. Steve Boberg, Drainage Engineer
Hydrology Section - Public Works Department
City of Albuquerque
P.O. Box 1293
Albuquerque, NM 87102

Re: **Submittal of Drainage Flow/Basin Map for Montañó Corridor**
COA Project 3255.90
WCEA File No: 96-210-076

Dear Steve:

In conjunction with you, we have developed the attached Montano Road Drainage Flow/Basin Map. The Map was developed to quantify flows that will be routed to the proposed Montañó Storm Water Pump Station, and help analyze flow discharges from developments as they are proposed. Provided on the Map we have shown the current and developed discharge conditions. The information on existing inflows was taken from two prior reports prepared for the City of Albuquerque; Drainage Report (Phase 1 of the Montañó Corridor From Rio Grande Boulevard to Edith), March 1986, by Wilson & Company and North Valley Drainage Systems Final Design Analysis Report, Volume II, System A, December 1985, by Scanlon & Associates, Inc. The existing inflows are:

Renaissance Pond	± 24 CFS
AGP Pond	± 6 CFS
Bernalillo County Pond	± 19 CFS
<u>Albuquerque Grociers Pond</u>	<u>± 5 CFS</u>
Total	± 54 CFS

Proposed developments along the Montañó Corridor will occur and require a discharge rate to the Montano System. To reflect this, we have added all existing flows and diverted off 30 CFS to the Alameda Drain. This leaves 80 CFS from approximately 2nd Street to the Pump Station at Rio Grande Boulevard. It was determined that approximately 76 acres would be able to discharge to the Montano system. At 0.5 cfs per acre, an additional 30 CFS is developed. This gives a total of 110 cfs for the system to handle. Even though the Pump Station was only designed to handle 95 cfs, it will have sufficient capacity due to available storage on Montañó Road and within the right-of-way from Guadalupe Trail to Rio Grande Boulevard. Also, the specific routing of flows along the Montañó Corridor will allow for offsetting the peaks.

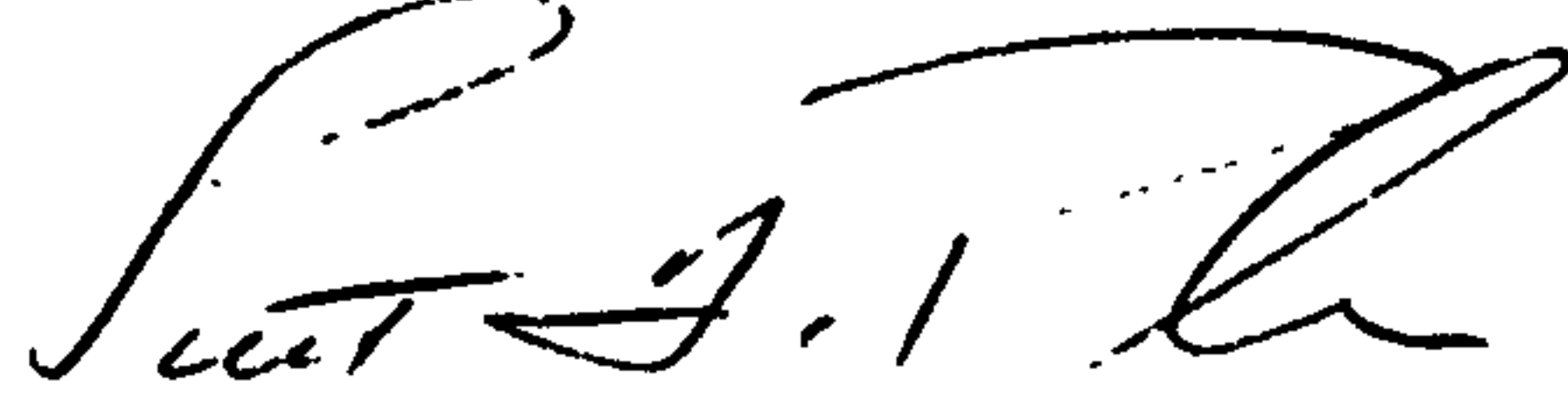


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If you have any questions, please give us a call.

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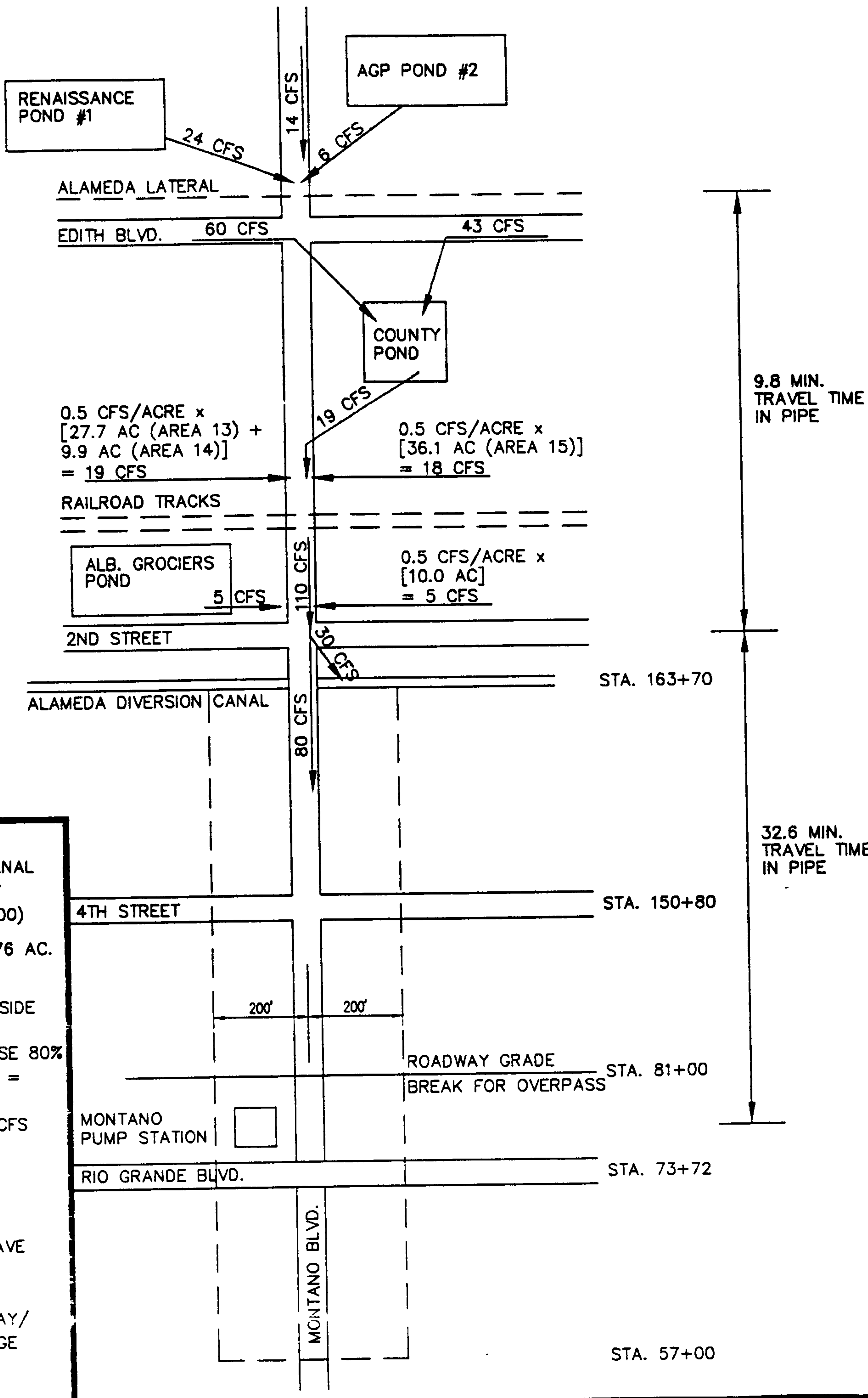
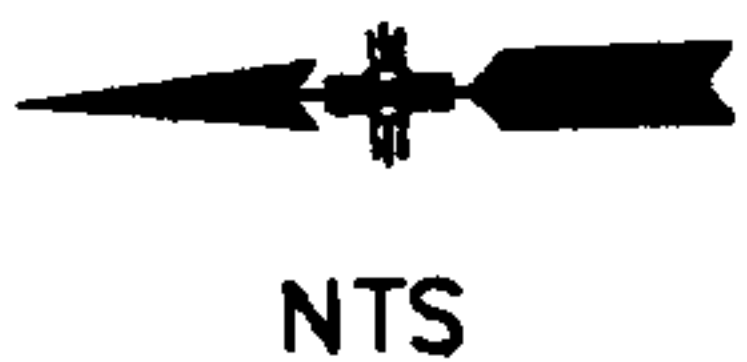
Scott F. Perkins, P.E.
Principal

SFP/lb

cc: Ed Adams, COA Trans. Development



MONTANO DRAINAGE



RUNOFF AREA FROM
ALAMEDA DIVERSION CANAL
TO START OF ROADWAY
DEPRESSION (STA. 81+00)
8270' x 400' WIDE = 76 AC.
43560

% DRAINAGE AREA OUTSIDE
OF ROADWAY =
(1-86/400) = 0.78, USE 80%
ALLOWABLE DISCHARGE =
0.5 CFS/ACRE
76 x 0.8 x 0.5 = 30 CFS

COMBINED FLOWS =
80 + 30 = 110 CFS

PUMP STATION WILL HAVE
CAPACITY TO HANDLE
FLOWS DUE TO:

- 1) AVAILABLE ROADWAY/
SIDE DITCH STORAGE
- 2) SPECIFIC ROUTING
OF FLOWS