



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

February 14, 1990

Louis Gross, P.E.
Louis Gross & Associates, Inc.
925 Sixth Street, NW
Albuquerque, New Mexico 87103

RE: REVISED DRAINAGE PLAN FOR PLAZA NATIONAL BANK
(G-20/D30) REVISION DATE OF FEBRUARY 6, 1990

Dear Mr. Gross:

Based on the information provided on your resubmittal of February 7, 1990, the revisions as indicated are acceptable for Building Permit.

Please attach a copy of this plan to the construction sets prior to sign-off by Hydrology.

Also, 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.

Your client should be advised that developed runoff will not be allowed to enter the unimproved alley. If for some reason the proposed asphalt curb is damaged, it will be their responsibility to assure that it is repaired and no runoff is allowed to enter the alley.

If I can be of further assistance, please feel free to call me at 768-2650.

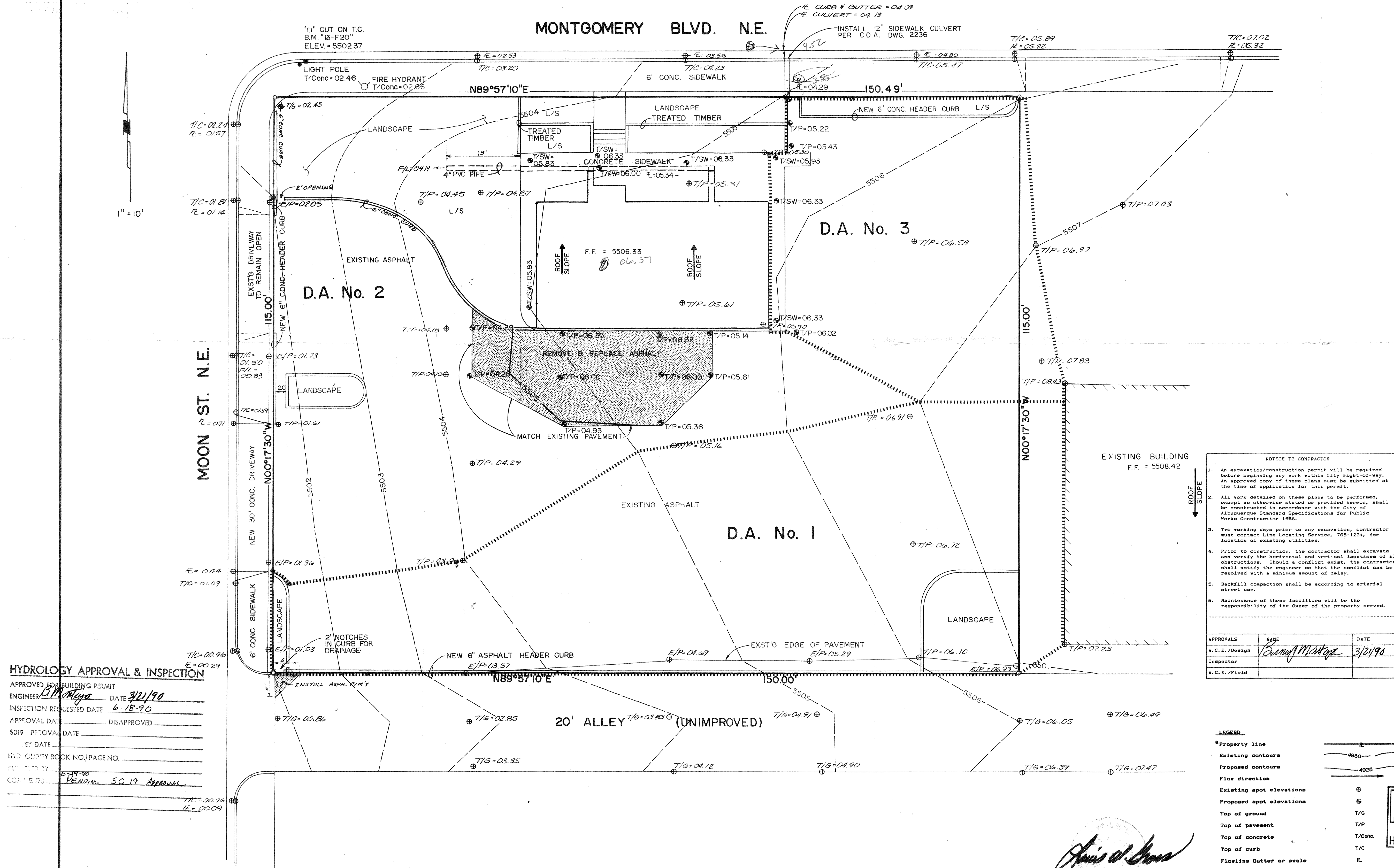
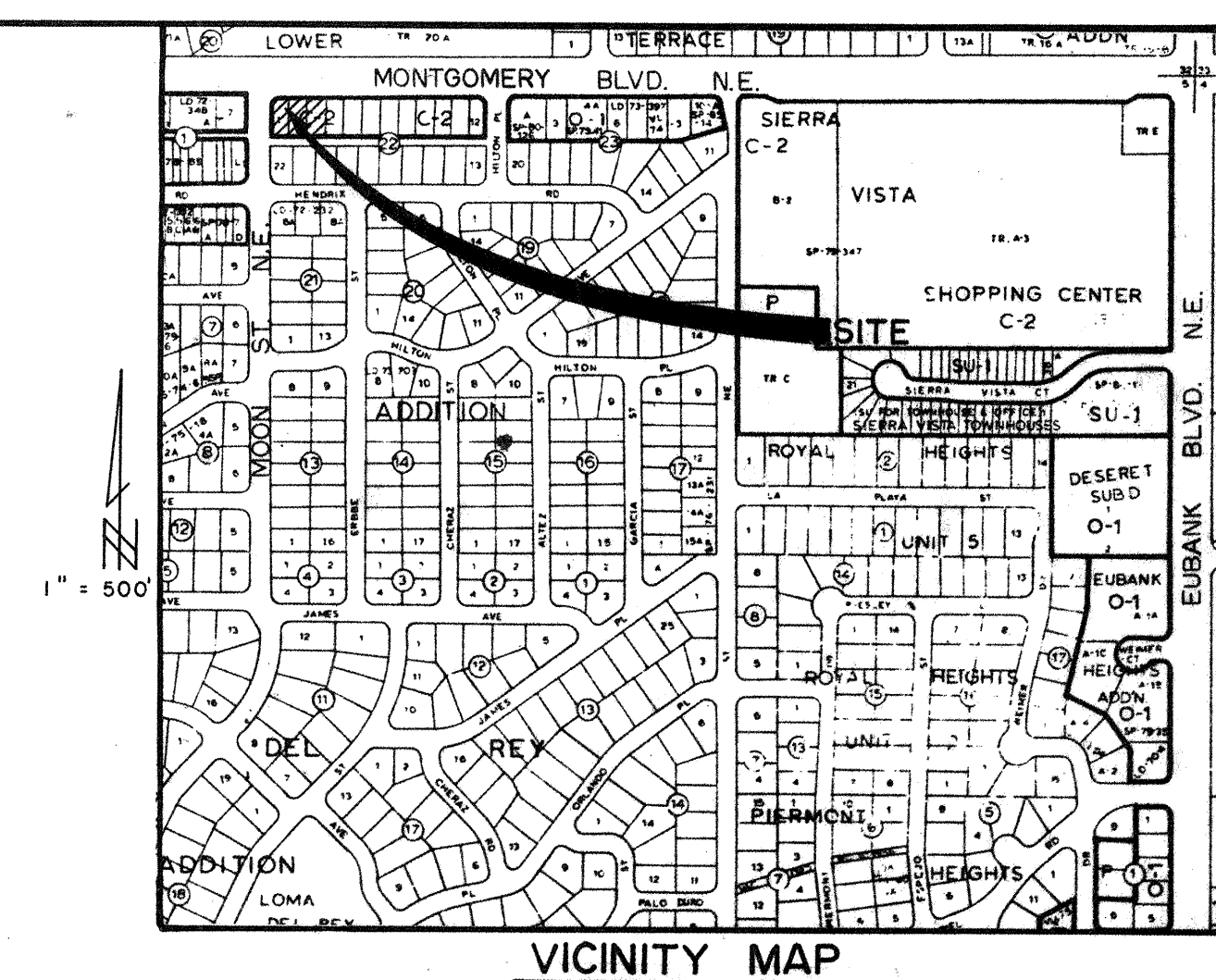
Cordially,

Bernie J. Montoya
Bernie J. Montoya, C.E.
Engineering Assistant

xc: Darlene Saavedra

BJM/bsj

DRAINAGE PLAN
TRACT 1A, BLOCK 22, THOMAS ADDITION
ALBUQUERQUE, N.M.
ZONE MAP G-20 BENCHMARK "13-F20" ELEV.=5502.37
FLOOD MAP 24 SOIL TYPE "B"
FILE No. G20/D30 APPROVED 2-1-90



HYDROLOGY
100 yr - 6 hr = 2.45 in 1 = 2.45 * 6.84 / 3.24 = 5.2 cfs
Area = 17,250 sf = 0.396 ac
Existing
Pavement, C = 0.95
Q = 0.95 * 5.2 * 0.396 = 2.0 cfs
CN = 98 Direct Run Off = 2.4 in
V = 2.4 / 12 * 17,250 = 3,450 cf
The existing run off flows to the alley and over the sidewalk to Moon St.
Proposed
D.A. No. 1
Area = 6,289 sf = 0.144 ac
Landscape = 434 * 0.25 = 109
Pavement = 5,855 * 0.95 = 5,562
6,289 5,671
C = 5,671 / 6,289 = 0.90
Q = 0.90 * 5.2 * 0.144 = 0.67 cfs
CN = 98 Direct Run Off = 2.4 in
V = 2.4 / 12 * 6,289 = 1,258 cf
The flow from D.A. No. 1 will exit at the northeast corner of the alley drive pad to Moon St. N.E.
D.A. No. 2
Area = 8,747 sf = 0.20 ac
Roof = 1,375 * 0.90 = 825
Landscape = 1,446 * 0.25 = 362
Asphalt = 5,926 * 0.95 = 5,630
8,747 6,817
C = 6,817 / 8,747 = 0.78
Q = 0.78 * 5.2 * 0.20 = 0.81 cfs
CN = 98 Direct Run Off = 1.5 in
V = 1.5 / 12 * 8,747 = 1,093 cf
The flow from D.A. No. 2 will discharge to Moon St. N.E. through the new drive pad and the existing driveway.
Check 4" roof drain
Q = 0.90 * 5.2 * 0.032 = 0.16 cfs
A = 0.007 P = 1.05 R = 0.003 R = 0.19
S = 0.009 S = 0.095
Q = 0.007 * 1.466 / 0.013 * 0.19 * 0.095 = 0.16 cfs - O.K.
D.A. No. 3
A = 3,060 sf = 0.07 ac
Asphalt C = 0.95
Q = 0.95 * 5.3 * 0.07 = 0.35 cfs
Capacity of 12" sidewalk culvert
Inlet = 1.5
Q = 1.5
Le = L * 0.10H * 1.0 - 0.10 * 1 * 0.5 = 0.9
1.5
Q = 2.7 * 0.90 * 0.50 = 0.85 cfs - O.K.
Barrel
A = 0.50 P = 2.0 R = 0.25 R = 0.40
S = 0.02 S = 0.14
Q = 0.50 * 1.486 / 0.017 * 0.40 * 0.14 * 2.45 = 0.8 K.
The flow from D.A. No. 3 will go to Montgomery Blvd. through the proposed sidewalk culvert.

NOTICE TO CONTRACTOR
1. An excavation/construction permit will be required before beginning any work within City right-of-way. An approved copy of these plans must be submitted at the time of application for this permit.
2. All work detailed on these plans to be performed, except as otherwise stated or provided hereon, shall be constructed in accordance with the City of Albuquerque Standard Specifications for Public Works Construction 1986.
3. Two working days prior to any excavation, contractor must contact Line Locating Service, 765-1234, for location of existing utilities.
4. Prior to construction, the contractor shall excavate and verify the horizontal and vertical locations of all obstructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.
5. Backfill compaction shall be according to arterial street use.
6. Maintenance of these facilities will be the responsibility of the Owner of the property served.

APPROVALS	NAME	DATE
A.C.E./Design	James M. Ortega	3/21/90
Inspector		
A.C.E./Field		

HYDROLOGY APPROVAL & INSPECTION
APPROVED FOR BUILDING PERMIT
ENGINEER: *James M. Ortega* DATE: 3/21/90
INSPECTION REQUESTED DATE: 6-18-90
APPROVAL DATE: _____ DISAPPROVED: _____
S019 APPROVAL DATE: _____ BY DATE: _____
H.B. CHECK BOOK NO./PAGE NO. _____
S019 APPROVAL: *PENDING S019 Approval*

LEGEND
Property line
Existing contours
Proposed contours
Flow direction
Existing spot elevations
Proposed spot elevations
Top of ground
Top of pavement
Top of concrete
Top of curb
Flowline gutter or swale

RECEIVED
MAR 16 1990
HYDROLOGY DIVISION

EROSION CONTROL NOTES
The contractor shall be responsible for compliance of the following:
1. No sediment bearing water shall be allowed to discharge from the site during construction.
2. During grading operations and until the project has been completed all adjacent property, rights of way and easements shall be protected from flooding.
3. Any and all sedimentation originating from the site which is deposited within public right of way shall be promptly removed by the contractor.
4. Control of sediment laden waters will be accomplished by use of a compacted earth berm of adequate height. The berm shall be located along the downstream perimeters of the property.

REVISED - TRANSPORTATION DEPT. COMMENT 3/5/90
REVISED - MOVED PROPOSED BUILDING 5' EAST PER OWNERS REQUEST 2-6-90

LOUIS GROSS & ASSOC., INC. File No. 504
Consulting Civil Engineers
925 6th Street N.W., Suite 3
Albuquerque, N.M. 87102
(505) 243-6353

Date
Drawn
Sheet 1 of 1

James M. Ortega
1-24-90