

CITY OF ALBUQUERQUE



April 24, 2008

J. Graeme Means, P.E.
High Mesa Consulting Group
6010-B Midway Park Blvd. NE
Albuquerque, NM 87109

Re: Dennis Chavez Elementary School Additions & Renovation, 7500 Heritage Hills NE, (D-20/D002A)

Approval of Permanent Certificate of Occupancy,

Engineer's Stamp Date 9/15/2006

Certification dated: 4-22-08

Mr. Means:

PO Box 1293

Based upon the information provided in your submittal received 4/23/08, the above referenced certification is approved for release of Permanent Certificate of Occupancy by Hydrology.

Albuquerque

If you have any questions, you can contact me at 924-3982.

NM 87103

Sincerely,

Timothy E. Sims
Plan Checker-- Hydrology, Planning Dept
Development and Building Services

www.cabq.gov

C: CO Clerk—Katrina Sigala
file

CITY OF ALBUQUERQUE



September 20, 2006

J. Graeme Means, P.E.
Jeff Mortensen & Associates, Inc
6010-B Midway Park Blvd. NE
Albuquerque, NM 87109

**Re: Dennis Chavez Elementary School, Additions and Renovation
Grading and Drainage Plan, Engineer's Stamp dated 9-15-06 (D20/D2A)**

Dear Mr. Means,

Based upon the information provided in your submittal dated 9-18-06, the above referenced plan is approved for Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

P.O. Box 1293

This project requires a National Pollutant Discharge Elimination System (NPDES) permit. If you have any questions feel free to call the Municipal Development Department Hydrology Section at 768-3654 (Charles Caruso)

Albuquerque

Also, prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

New Mexico 87103

If you have any questions, I can be reached at 924-3695.

www.cabq.gov

Sincerely,

Curtis A. Cherne

Curtis A. Cherne, E.I.

Engineering Associate, Planning Dept.
Development and Building Services

309

C: file
Charles Caruso, DMD

CITY OF ALBUQUERQUE



September 6, 2006

Jeffrey G. Mortensen, P.E.
Jeff Mortensen & Assoc., Inc.
6010-B Midway Park Blvd. NE
Albuquerque, NM 87109

Re: Dennis Chavez Elementary School Master Drainage Plan
Engineer's Stamp dated 8-27-06 (D20/D2A)

Dear Mr. Mortensen,

Based upon the information provided in your submittal dated 8-28-06, the above referenced plan is approved to be the Master Drainage Plan.

P.O. Box 1293

If you have any questions, you can contact me at 924-3695.

Albuquerque

New Mexico 87103

www.cabq.gov

Sincerely,

Curtis A. Cherne, E.I.
Engineering Associate, Planning Dept.
Development and Building Services

CB

C: file

CITY OF ALBUQUERQUE



August 9, 2006

J. Graeme Means, P.E.
Jeff Mortensen & Associates, Inc.
6010-B Midway Park Blvd. NE
Albuquerque, NM 87109

Re: Dennis Chavez Elementary School, Engineer's Stamp dated 7-27-06
Request for Grading and Paving Permit Approval, (D20/D2A)
Playground Improvements Only

Dear Mr. Means,

Based on the information contained in your submittal received on July 31, 2006, the above referenced plan is approved for both Grading and Paving Permit Approval.

Please be advised that this approval applies only to the playground improvements. As the proposed site layout differs from the Master Plan approved in September of 2005, a revision and update to that Master Plan will be required prior to the approval of any additional site improvements and / or Building Permits.

If you have any questions or need additional information, feel free to contact me at 924-3990.

Sincerely,

Jeremy Hoover, P.E.
Senior Engineer
Hydrology Section
Development and Building Services

cc: file (D20/D2A)

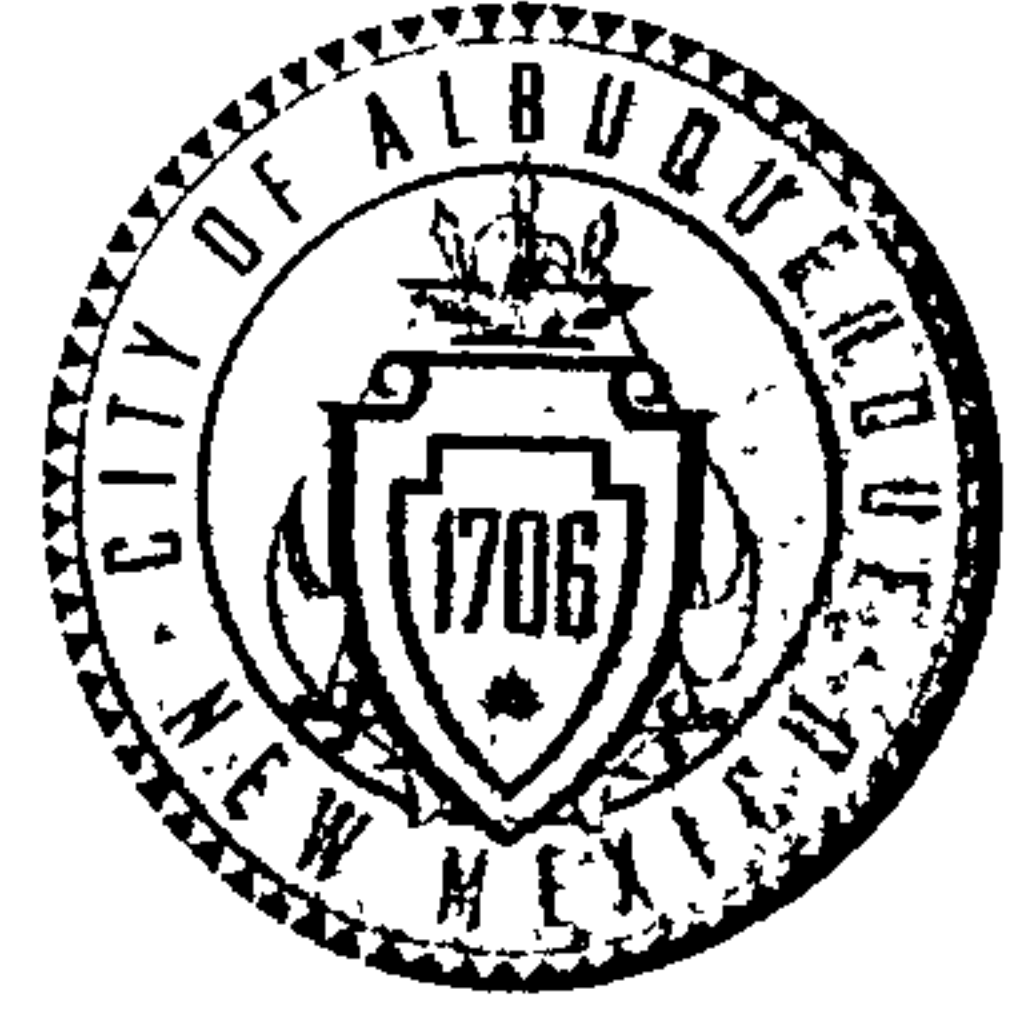
P.O. Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

CITY OF ALBUQUERQUE



**Planning Department
Transportation Development Services Section**

April 7, 2008

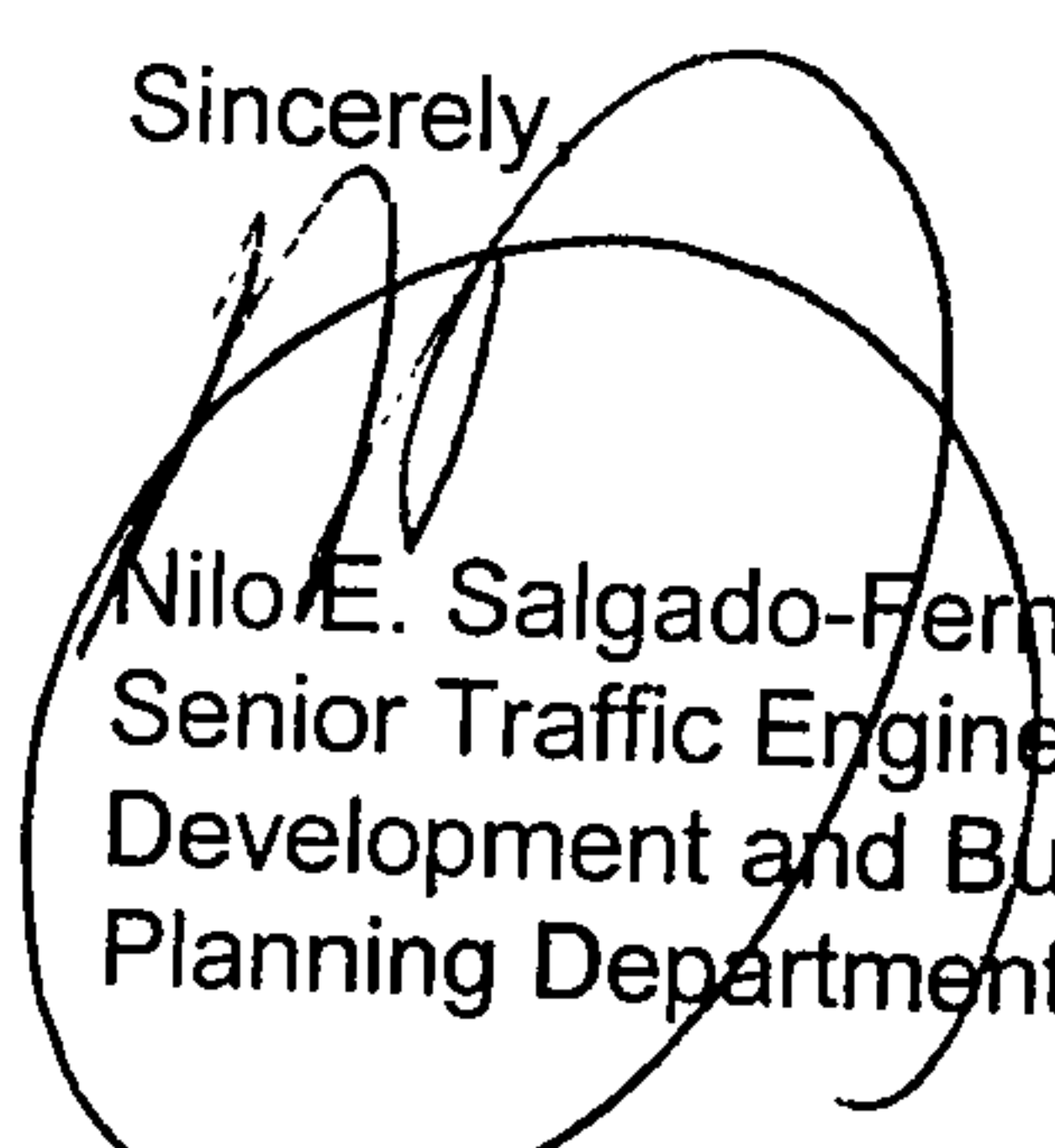
John L. Greer, Registered Architect
1717 Louisiana NE, Ste. 205
Albuquerque, NM 87110-7027

Re: Certification Submittal for Final Building Certificate of Occupancy for
Dennis Chavez Elementary School, [D-20 / D002A]
7500 Barstow NE
Architect's Stamp Dated 04/03/08

Dear Mr. Greer:

The TCL / Letter of Certification submitted on April 4, 2008 is sufficient for acceptance by this office for final Certificate of Occupancy (C.O.). Notification has been made to the Building and Safety Section.

Sincerely,


Nilo E. Salgado-Fernandez, P.E.
Senior Traffic Engineer
Development and Building Services
Planning Department

c. Engineer
Hydrology file
CO Clerk

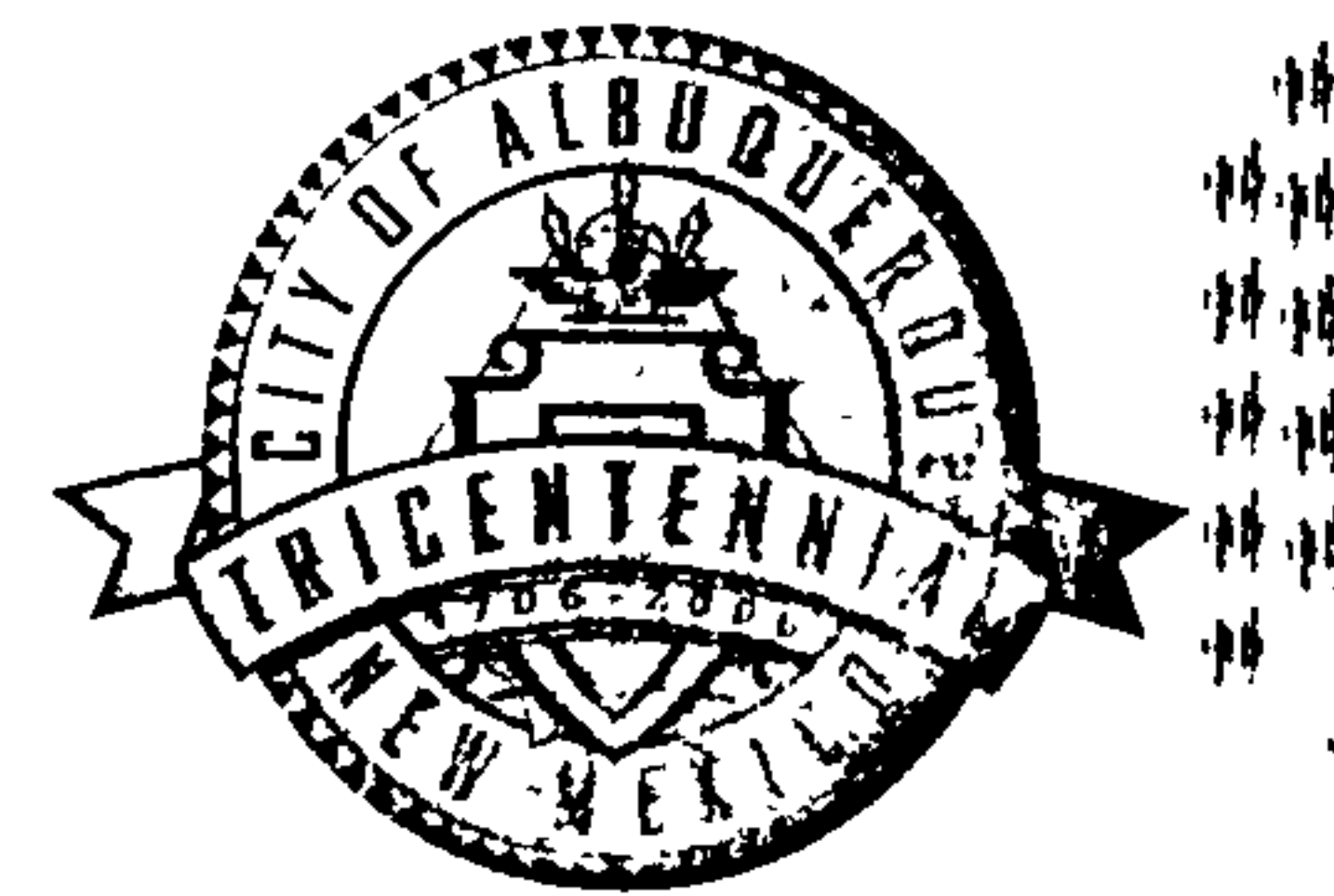
PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

CITY OF ALBUQUERQUE



December 28, 2006

John Greer, R.A.
Greer Stafford SJCF
1717 Louisiana NE, Suite 205
Albuquerque, NM 87110

Re: Dennis Chavez Elementary Additions and Renovations, 7500 Barstow NE,
Traffic Circulation Layout
Architect's Stamp dated 12-19-06 (D20-D2A)

Dear Mr. Greer,

The TCL submittal received 12-19-06 is approved for Building Permit. The plan is stamped and signed as approved. A copy of this plan will be needed for each of the building permit plans. Please keep the original to be used for certification of the site for final C.O. for Transportation. **Public infrastructure or work done within City Right-of-Way shown on these plans is for information only and is not part of approval. A separate DRC and/or other appropriate permits are required to construct these items.**

P.O. Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

If a temporary CO is needed, a copy of the original TCL that was stamped as approved by the City will be needed. This plan must include a statement that identifies the outstanding items that need to be constructed or the items that have not been built in "substantial compliance," as well as the signed and dated stamp of a NM registered architect or engineer. Submit this TCL with a completed Drainage and Transportation Information Sheet to Hydrology at the Development Services Center of Plaza Del Sol Building.

When the site is completed and a final C.O. is requested, use the original City stamped approved TCL for certification. A NM registered architect or engineer must stamp, sign, and date the certification TCL along with indicating that the development was built in "substantial compliance" with the TCL. Submit this certification TCL with a completed Drainage and Transportation Information Sheet to Hydrology at the Development Services Center of Plaza Del Sol Building.

Once verification of certification is completed and approved, notification will be made to Building Safety to issue Final C.O. To confirm that a final C.O. has been issued, call Building Safety at 924-3306.

Sincerely,

Kristal D. Metro, P.E.
Senior Engineer, Planning Dept.
Development and Building Services

C: File



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

February 4, 1999

Jud Lee, P.E.
Wilson & Company
4775 Indian School Road, NE - Suite 200
Albuquerque, NM 87110

Attn: Steve Salazar

**RE: DENNIS CHAVEZS ELEMENTARY SCHOOL - PARKING LOT IMPROVEMENTS
(D20-D2A). GRADING & DRAINAGE PLAN FOR PAVING PERMIT APPROVAL.
ENGINEER'S STAMP DATED JANUARY 21, 1999.**

Dear Mr. Lee:

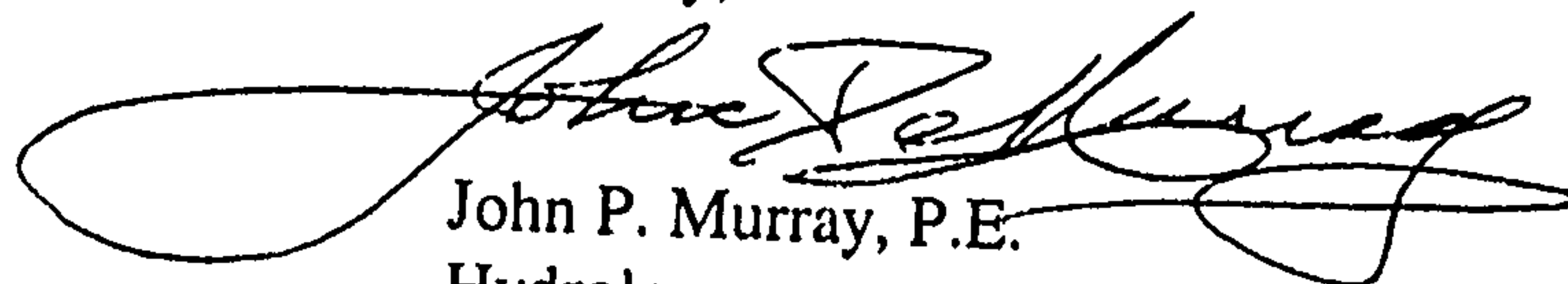
Based on the information provided on your January 22, 1999 submittal, the above referenced project is approved for Paving Permit.

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

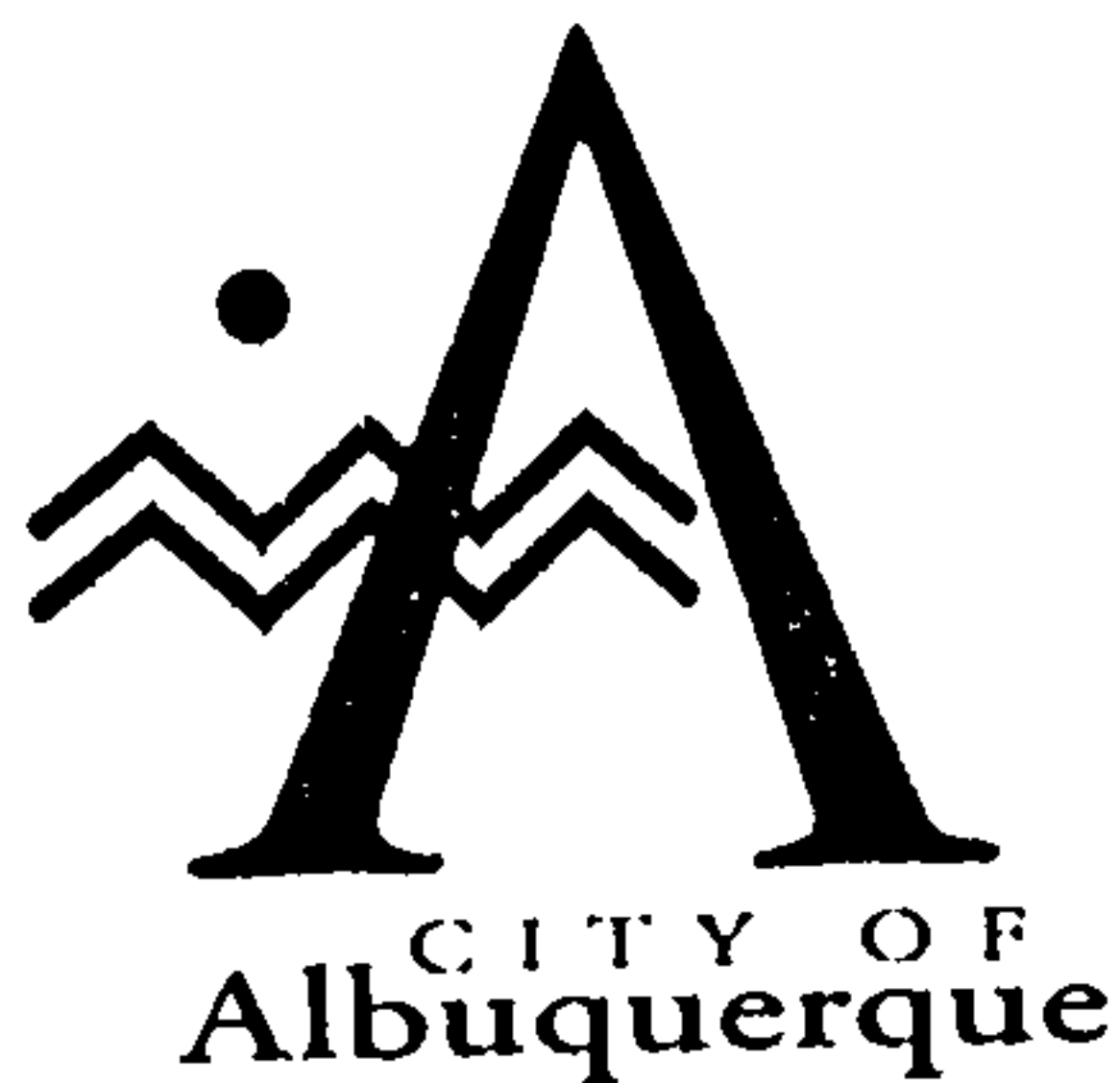
Prior to Certificate of Occupancy approval, an Engineer's Certification per the DPM will be required.

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

Sincerely,


John P. Murray, P.E.
Hydrology

c: Andrew Garcia
File



Public Works Department
January 14, 1997

Martin J. Chávez, Mayor

Robert E. Gurulé, Director

Jeff Mortensen
Jeff Mortensen & Assoc.
6010-B Midway Park Blvd. NE
Albuquerque, NM 87109

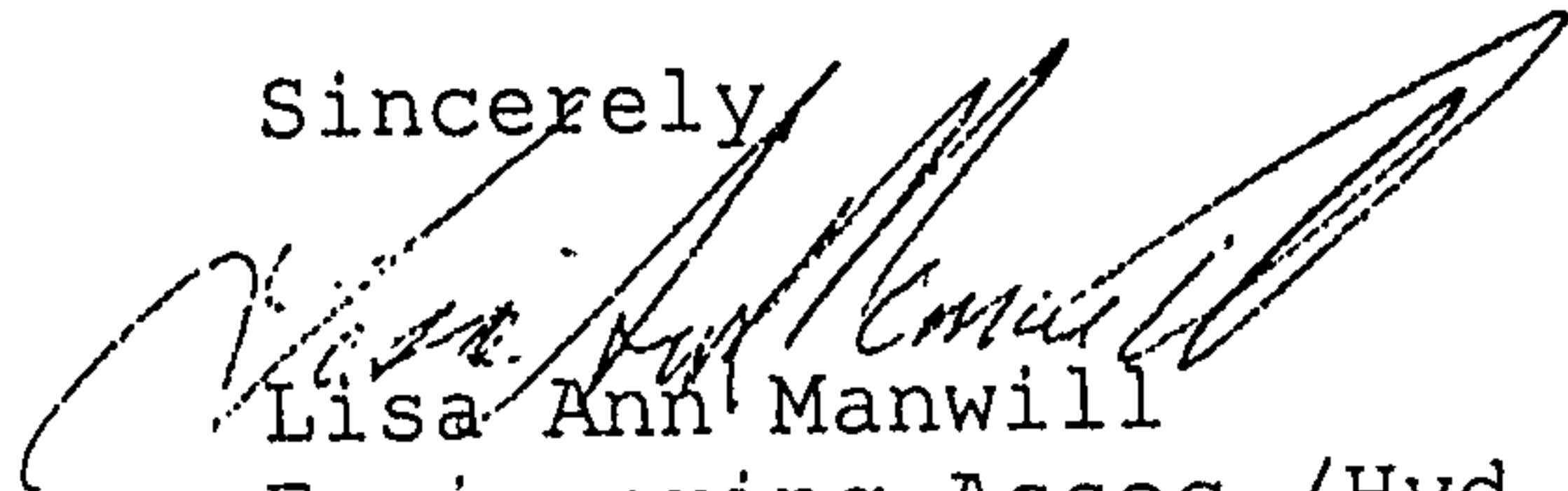
**RE: DENNIS CHAVEZ ELEMENTARY SCHOOL (D20-D2A). ENGINEER'S
CERTIFICATION FOR CERTIFICATE OF OCCUPANCY. ENGINEER'S
CERTIFICATION DATED JANUARY 3, 1997.**

Dear Mr. Mortensen:

Based on the information provided on your January 6, 1997
submittal, the above referenced project is approved for
Certificate of Occupancy.

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!

P.O. Box 1293, Albuquerque, New Mexico 87103





City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

November 9, 1993

David Thompson
Wilson & Company
6611 Gulton Ct.
Albuquerque, NM 87109

RE: ENGINEER CERTIFICATION FOR DENNIS CHAVEZ ELEMENTARY SCHOOL
(D20-D2A) ENGINEER'S CERTIFICATION STATEMENT DATED 11/1/93.

Dear Mr. Thompson:

Based on the information provided on your November 2, 1993 submittal, Engineer Certification for the above referenced site is acceptable.

If I can be of further assistance, please feel free to contact me at 768-2667.

Sincerely,

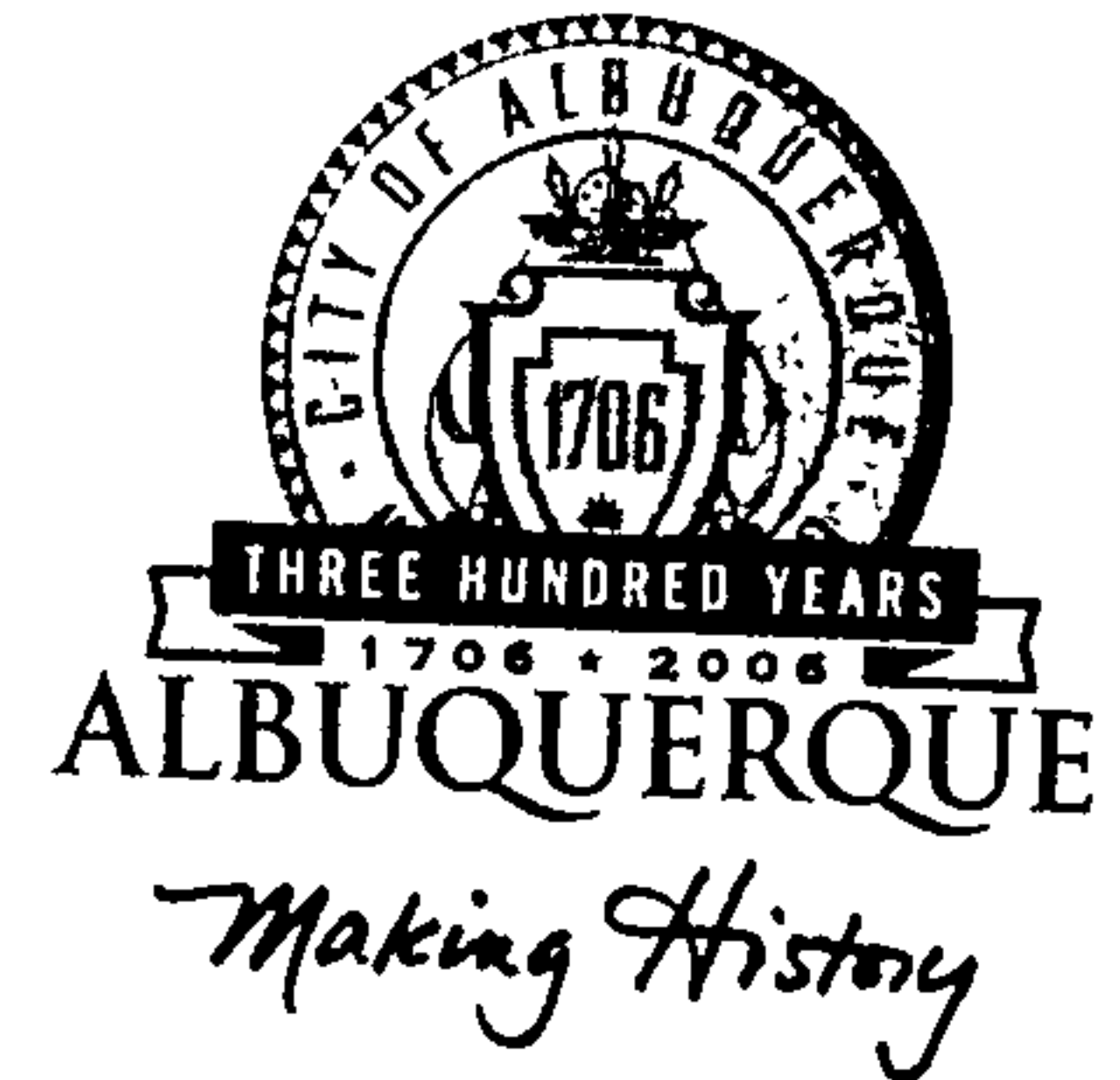
Bernie J. Montoya, CE
Engineer Associate

BJM/d1/WPHYD/7587

xc: Alan Martinez
File

PUBLIC WORKS DEPARTMENT

CITY OF ALBUQUERQUE



September 27, 2005

Jeffrey G. Mortensen, P.E.
Jeff Mortensen & Assoc., Inc.
6010-B Midway Park Blvd. NE
Albuquerque, NM 87109

**Re: Dennis Chavez School, 7500 Barstow NE, Grading and Drainage Plan
Engineer's Stamp dated 9-22-05 (D20-D2A)**

Dear Mr. Mortensen,

Based upon the information provided in your submittal received 9-22-05, the above referenced plan is approved for Master Drainage Plan requirements. Please note that a site-specific grading and drainage plan will need to be submitted for each phase of this project.

P.O. Box 1293

If you have any questions, you can contact me at 924-3695.

Albuquerque

New Mexico 87103

www.cabq.gov

Sincerely,

Rudy E. Rael Associate Engineer
Planning Department.
Development and Building Services
BLB

C: File



May 16, 1996

Martin J. Chávez, Mayor

Jeff Mortensen
Jeff Mortensen & Assoc.
6010-B Midway Park Blvd. NE
Albuquerque, NM 87109

**RE: DENNIS CHAVEZ ELEMENTARY SCHOOL (D20-D2A) GRADING AND
DRAINAGE PLAN FOR BUILDING PERMIT APPROVAL. ENGINEER'S
STAMP DATED 4-22-96.**

Dear Mr. Mortensen:

Based on the information provided on your April 23, 1996
submittal, the above referenced project is approved for Building
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 768-3622.

Sincerely,

Lisa Ann Manwill
Engineering Assoc./Hyd.

c: Andrew Garcia
File

Good for You, Albuquerque!





City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

April 8, 1993

Daniel Aguirre
Wilson & Company
6611 Gulton Ct. NE
Albuquerque, NM 87109

RE: REVISED DRAINAGE PLAN FOR DENNIS CHAVEZ ELEMENTARY SCHOOL SITE
IMPROVEMENTS (D20-D2A) REVISION DATED 3/25/93.

Dear Mr. Aguirre:

Based on the information provided on your April 1, 1993 resubmittal, the above referenced site is approved for Building Permit.

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

Also, please be advised that prior to Certificate of Occupancy release, Engineer Certification per the D.P.M. checklist will be required.

If I can be of further assistance, please feel free to contact me at 768-2667.

Sincerely,

Bernie J. Montoya, CE
Engineering Assistant

BJM/d1/WPHYD/7587

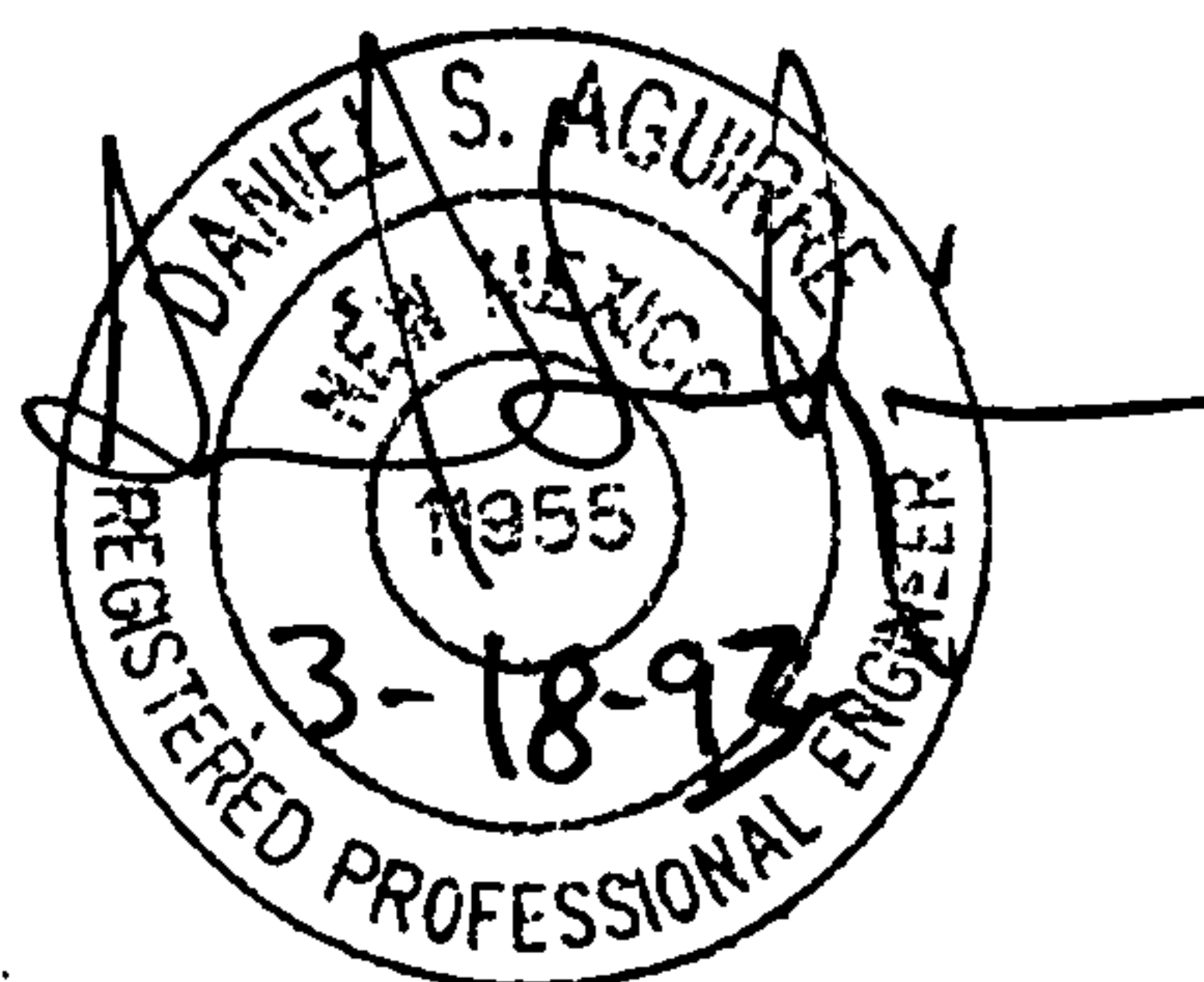
xc: File
Alan Martinez

PUBLIC WORKS DEPARTMENT

Drainage Report

for

Dennis Chavez Elementary Site Improvements

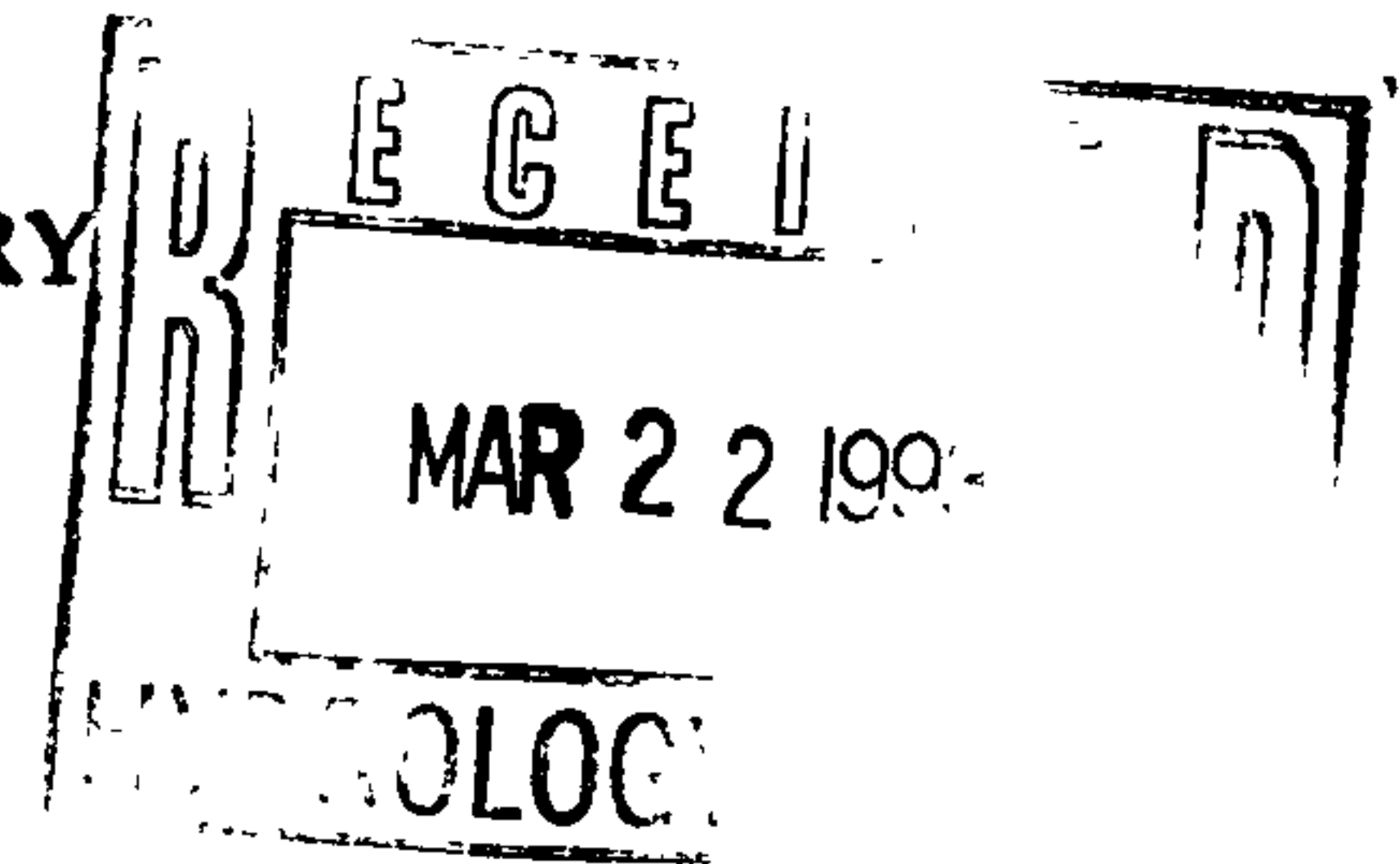


Prepared By:
Wilson & Company, Engineers & Architects
6611 Gulton Court, N.E.
Albuquerque, New Mexico 87109

18 March 1993

WILSON
& COMPANY

**DRAINAGE REPORT
FOR DENNIS CHAVEZ ELEMENTARY
SITE IMPROVEMENTS
ALBUQUERQUE, NEW MEXICO**



SITE LOCATION

The site is located in the northeast corner of the intersection of Barstow Street and San Francisco Drive. The site is developed at the present time. Improvements to the site will include regrading to improve drainage, new asphalt surfacing, and a canopy covering the walkway between existing portable buildings. Also, the main building is being re-roofed with new roof drains.

METHODOLOGY

For this site the Development Process Manual, Volume 2, Design Criteria for the City of Albuquerque was followed. The method designated Part A in the revised section 22.2 was followed to determine the peak runoff for each basin. The charts and formulas in Part A were followed using the 100-year frequency 6-hour rainfall volume as the design storm event. The site is located in Zone 3 as determined from Figure A.

ANALYSIS

Existing Conditions

It was determined that the site currently has three drainage basins. Basin 201, the majority of the property, includes the portable park and playground area. This basin currently drains to Barstow Street through an existing sidewalk culvert with a capacity of approximately 3.9 CFS. The ponding area available is approximately .025 ac-ft. A major storm event would overtop the culvert and ponding area and flow over the existing sidewalk onto Barstow Avenue. Basin 202 includes a portion of the school roof and the parking area along Barstow Avenue. This basin is drained to Barstow Street through the existing driveways. Basin 203 consists of the remaining portions of the roof and the lawn area adjacent to San Francisco Drive. This flow discharges to San Francisco Drive.

Summary of existing discharge calculations:

BASIN	ZONE	AREA ACRES	LAND TREATMENT TYPE	PEAK DISCHARGE CFS/ACRE	Q CFS
201	3	1.1	B	2.6	2.86
		8.42	C	3.45	29.05
		.53	D	5.02	2.66
TOTAL		10.05			34.6
202	3	.84	D	5.02	4.2
TOTAL		.84			4.2
203	3	.73	B	2.6	1.90
		.33	D	5.02	1.70
TOTAL		1.06			3.6

PROPOSED CONDITIONS

The proposed site improvements include the installation of a new roof on the school with a new drainage system. The flows will be directed to three outlets. The majority of the flows will be discharged to the front of the building facing Barstow Street and discharge through two new bubbler structures located in the paved parking area. A covered walkway will be constructed from the Main Building to the existing portable buildings and extend through the portables. Regrading in the portable park to improve access for the handicap and drainage will be completed. Also included with the site improvements is the construction of a paved bus drop-off and loading area adjacent to Barstow Avenue.

The proposed conditions involve minor modifications of the site drainage basins. The site has been divided into four (4) basins. Basin 101 is a small basin located in the northwest corner of the site, the flows will discharge to Barstow Street. Basin 102 includes the playground area, the portable buildings, and the new bus drive-through. This basin will drain to a swale and then be conveyed to Barstow through the south driveway of the new bus drive-through and the existing sidewalk culvert. Low flows and nuisance flows will be conveyed to the existing sidewalk culvert via a valley gutter crossing the bus drive-through. Flows from larger storms will exceed the capacity of the valley gutter and be directed to Barstow Avenue through the paved driveway. Basin 103 includes the main building and the parking area adjacent to Barstow. These flows will continue to drain to Barstow through the existing driveways. Basin 104 is the same as the existing Basin 203 with a smaller portion of the roof draining to this basin. The basin will continue to discharge to San Francisco Drive.

Summary of proposed conditions calculations:

BASIN	ZONE	AREA (ACRE)	LAND TREATMENT TYPE	PEAK DISCHARGE CFS/ACRE	Q CFS
101 TOTAL	3	.4 .4	C	3.45	1.4 1.4
102 TOTAL	3	1.1 7.4 .28 9.12	B C D	2.6 3.45 5.02	2.86 25.53 1.4 29.8
103 TOTAL	3	1.55 1.55	D	5.02	7.8 7.8
104 TOTAL	3	.73 .15 .88	B D	2.6 5.02	1.9 .75 2.65

The total discharge to Barstow during the 100-year, 6-hour event is calculated to be 39 CFS. Whereas, the total discharge to San Francisco will be reduced from 3.6 to 2.7.

Downstream capacity for storm flows is provided by the South Domingo Baca Arroyo located north of the site. Barstow Avenue drains to the arroyo from San Francisco Street. The "North and South Domingo Baca Arroyos and Paseo del Norte Corridor Drainage Management Plan" prepared by Resource Technology, Inc. shows an available capacity in the South Domingo Baca Arroyo of 111 CFS for this area. An additional 13 acres is included within the same basin resulting in an additional 57 CFS discharge. The total proposed discharge to the South Domingo Baca Arroyo is 96 CFS which is less than the allowable 111 CFS.

According to the charts in the DPM on Page 72 Plate 22.3 D-3, the capacity of Barstow Street at a depth of .87 and a slope of .45% is approximately 94 CFS. With the routing which occurs, there should be sufficient capacity to convey the flows from this drainage area to the South Domingo Baca Arroyo.

The proposed drive pads will have water blocks of .6 ft. for the southern location and 1 ft. for the northern location. The flow in Barstow is approximately 10 CFS at the southern drivepad which will flow at a depth of .5 ft. The flow at the northern drivepad will be approximately 40 CFS with a depth of flow just over .8 ft. The depth of flow was obtained from the chart on page 72 of the DPM plat 22.3, D-3. The proposed water blocks will prevent flows from entering the site during a 100-year, 6-hour event.

COMP. DSA
CK. DBT
DATE 2-23-93

WILSON
& COMPANY

LOC. ALBQ, NM FILE 93502
PROJ. DENNIS CHAVEZ SHEET 1
SUBJ. HYDROLOGY OF 4

SITE CONDITIONS:

AREA TOTAL = 11.96 AC ZONE = 3

IMPERVIOUS AREA = EXISTING - 2.37 AC PROPOSED - 2.60 AC

LAWN AREA = 1.78 AC

TYPE C SOIL = EXISTING - 7.81 AC PROPOSED - 7.58 AC

EXISTING CONDITIONS

BASIN 201

AREA

10.05 AC

$E_w = 1.31$

$$V = \left(\frac{1.31}{12} \times 10.05 \right) + .53 \left(\frac{.5}{12} \right) = 1.2 \text{ AC-FT}$$

$$Q = 1.1 \text{ AC} \times 2.6 \text{ CFS/AC} + 8.42 \text{ AC} \times 3.45 \text{ CFS/AC} + .53 \text{ AC} \times 5.02$$

$$Q = 34.6 \text{ CFS}$$

SOIL CONDITION

TYPE A

B 1.10

C 8.42

D .53

BASIN 202

AREA

.84 AC

$E = 2.36$

$$V = \frac{2.36}{12} (.84) + .84 (.0417) = .2 \text{ AC-FT}$$

$$Q = .84 \text{ AC} \times 5.02 \text{ CFS/AC}$$

$$Q = 4.2 \text{ CFS}$$

SOIL CONDITION

TYPE A

B

C

D .84 AC

BASIN 203

AREA

1.06

$E = 1.37$

$$V = \frac{1.45}{12} + .33 (.0417) = .14 \text{ AC-FT}$$

$$Q = .73 \text{ AC} \times 2.6 \text{ CFS/AC} + .33 \text{ AC} \times 5.02 \text{ CFS/AC}$$

$$Q = 3.6 \text{ CFS}$$

SOIL CONDITION

TYPE A

B .73

C

D .33

COMP. DSA
CK. DBT
DATE 2-23-93

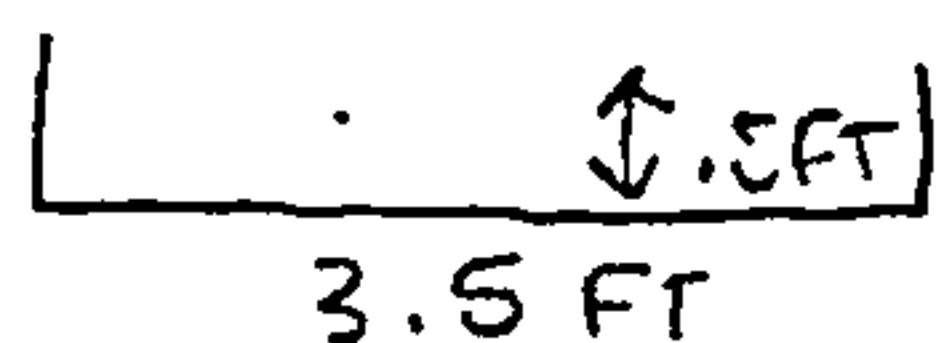
**WILSON
& COMPANY**

LOC. ALBQ, NM FILE 93-502
PROJ. DENNIS CHAVEZ SHEET 2
SUBJ. HYDROLOGY OF 4

EXISTING CONDITIONS CONTINUED

TOTAL CFS DISCHARGED TO SAN FRANCISCO = 3.6 CFS, .14 AC-FT
TOTAL CFS DISCHARGED TO BARSTOW = 38.8 CFS, 1.4 AC-FT

THE SITE HAS VARIOUS LOW SPOTS WHICH CURRENTLY RETAIN FLOWS ON SITE INUNDATING MUCH OF THE PLAYGROUND. THE DISCHARGE IS THROUGH AN EXISTING SIDEWALK CULVERT WITH AN APPROXIMATE CAPACITY OF



USING THE WEIR EQUATION
 $Q = 3.9 \text{ CFS}$

COMP. DSA
CK. DBT
DATE 2-23-93

WILSON
& COMPANY

LOC. ALBA, NM FILE 93-502
PROJ. DENNIS CHAVEZ SHEET 3
SUBJ. HYDROLOGY OF 4

PROPOSED CONDITIONS

BASIN 101

AREA
.40 AC

$$E = 1.29$$

$$V = .04 \text{ AC-FT}$$

$$Q = .4 \text{ AC} \times 3.45 \text{ CFS/AC}$$

$$Q = 1.4 \text{ CFS}$$

SOIL CONDITIONS

TYPE A

B

C .40 AC

D

BASIN 102

AREA
9.12 AC

$$Q = 1.1 \text{ AC} \times 2.6 \text{ CFS/AC} + 7.74 \text{ AC} \times 3.45 \text{ CFS/AC} + .28 \text{ AC} \times 5.02$$

$$Q = 29.8 \text{ CFS}$$

$$E = 1.28$$

$$V = .98 \text{ AC-FT}$$

BASIN 103

AREA
1.55 AC

$$E = 2.36$$

$$V = .37 \text{ AC-FT}$$

$$Q = 1.55 \text{ AC} \times 5.02 \text{ CFS/AC}$$

$$Q = 7.8 \text{ CFS}$$

SOIL CONDITIONS

TYPE A

B 1.1 AC

C 7.74 AC

D .28 AC

SOIL CONDITION

TYPE A

B

C

D 1.55 AC

BASIN 104

AREA
.88 AC

$$E = 1.17$$

$$V = .1 \text{ AC-FT}$$

$$Q = .73 \text{ AC} \times 2.6 \text{ CFS/AC} + .15 \text{ AC} \times 5.02 \text{ CFS/AC}$$

$$Q = 2.7 \text{ CFS}$$

SOIL CONDITION

TYPE A

B

.73 AC

C

D

.15 AC

COMP. DSA
CK. DBT
DATE 2-23-93

**WILSON
& COMPANY**

LOC. ALBA, NM FILE 93-502
PROJ. DENNIS CHAVEZ SHEET 4
SUBJ. HYDROLOGY OF 4

TOTAL DISCHARGE TO BARSTOW

BASIN 101
102
103

= 40.2 CFS
V = 1.39 AC-FT

TOTAL DISCHARGE TO SAN FRANCISCO

BASIN 104

= 2.65 CFS
Y = .1 AC-FT

DISCHARGE FROM BASIN 102 = 31.0 CFS

OPEN CHANNEL TO CARRY 31.0 CFS

S = .5%
EARTH

B = 9 FT

Z = 3:1

Y = 1

$Q_{cap} = 42.8 \text{ CFS}$

FROM THE DPM Pg 72 PLATE 22.3 D-3

THE CAPACITY OF BARSTOW AT A DEPTH $\frac{2}{10}$ ABOVE THE TOP OF CURB OR D = .87 SLOPE = .45 IS $\approx 94 \text{ CFS}$

THE CAPACITY AVAILABLE FROM THIS AREA IN THE NORTH DOMINGO RACA ARIZONA IS 111 CFS. (REPORT: DEC. 1991)

THE AREA CONTAINS 13. ACRES IN ADDITION TO THE 11.96 ACRES OF THIS SITE. ASSUMING THE FOLLOWING FOR SOIL CONDITIONS OF THIS AREA: B. C. D. TO BE CONSISTANT
20% 10% 70%
WITH THE REPORT THE PEAK RUNOFF IS 57. CFS FOR A TOTAL OF 11.96 ACRES

COMP. DSA

CK. DBT

DATE 3-17-93

**WILSON
& COMPANY**

LOC. ALBQ, NM

FILE 93-502A

PROJ. DENNIS CHAVEZ

SHEET 1

SUBJ. FLOW IN BARSTOW OF 1

FL @ SOUTH DRIVE = 65.38

FL @ RL = 66.0

WATER STOP = .62

FLOW IN BARSTOW @ 8 CFS IS APPROXIMATELY .48 FT
FROM CHART ON Pg 73 OF DPM - PLATE 22.3 D3

FL @ NORTH DRIVE = 64.70

FL @ RL = 65.70

WATER STOP = 1.0 FT

FLOW IN BARSTOW @ 40 CFS IS APPROXIMATELY .82 FT

IN BOTH CASES THE WATER STOP IS ADEQUATE AT THE
RL TO PREVENT FLOWS FROM ENTERING THE SITE.