

CITY OF ALBUQUERQUE



August 30, 2011

Fred C. Arfman, P.E.
Isaacson & Arfman, P.A.
128 Monroe Street N.E.
Albuquerque, NM 87108

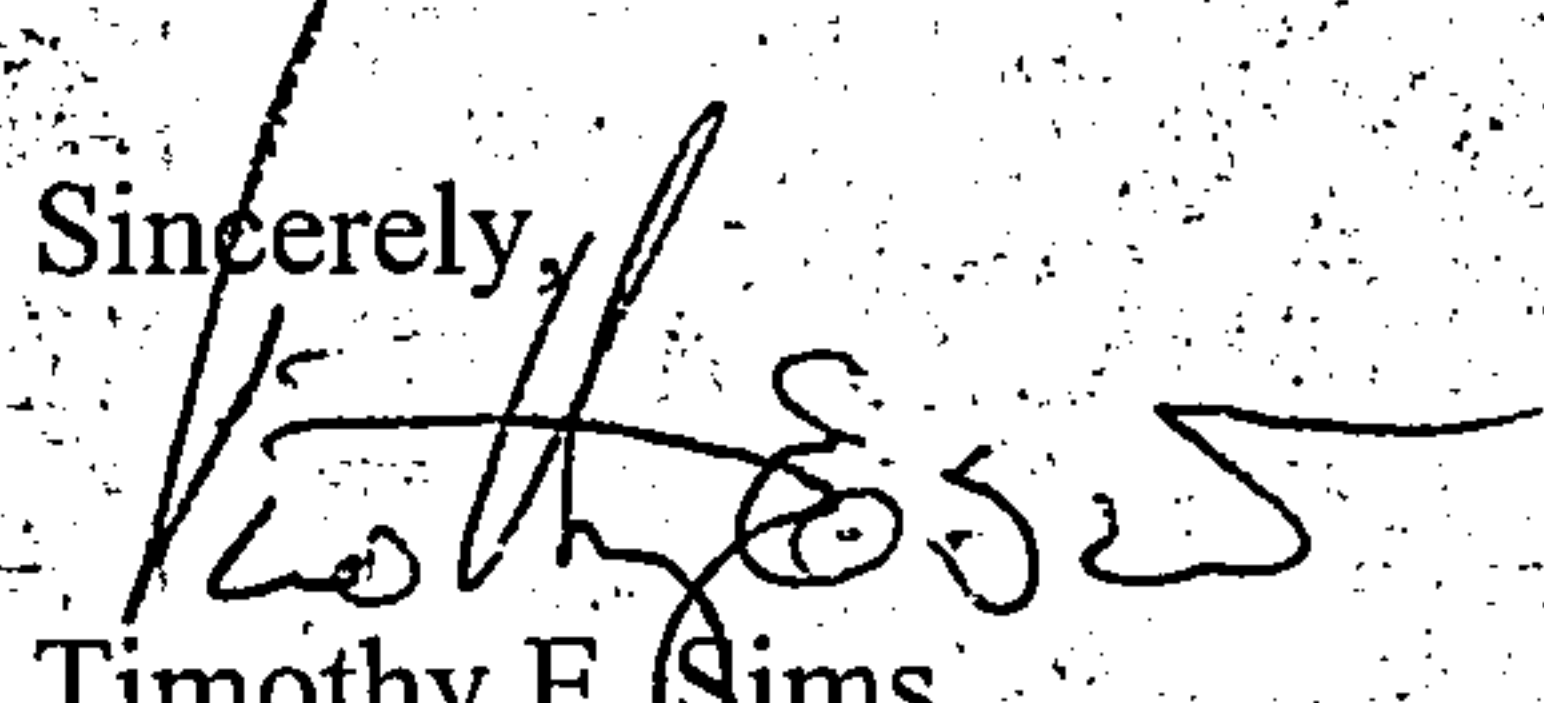
**Re: Zuni Elementary School—Cafeteria Addition, 6300 Claremont Ave NE,
Request for Permanent C.O. - Approved
Engineer's Stamp dated: 5-16-11 (H-18/D054)
Certification dated: 08-29-11**

Dear Mr. Arfman,

Based upon the information provided in the Certification received 08-30-11, the above referenced Certification is approved for a release of a Permanent Certificate of Occupancy by Hydrology.

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

Sincerely,


Timothy E. Sims,
Plan Checker—Hydrology Section
Development and Building Services

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

C: CO Clerk—Katrina Sigala
File

DRAINAGE AND TRANSPORTATION INFORMATION SHEET
(Rev. 12/05)

PROJECT TITLE: Zuni Elementary School – Cafeteria Additions ZONE MAP/DRG. FILE # H-18/d054
DRB#: _____ EPC#: _____ WORK ORDER#: _____

LEGAL DESCRIPTION: Tract A – Zuni Elementary School, Albuquerque, New Mexico
CITY ADDRESS: 6300 Claremont Ave. NE, 87110

ENGINEERING FIRM: ISAACSON & ARFMAN, PA
ADDRESS: 128 MONROE NE
CITY, STATE: ALBUQUERQUE, NM

CONTACT: Fred C. Arfman
PHONE: 268-8828
ZIP CODE: 87108

OWNER: Albuquerque Public Schools
ADDRESS: _____
CITY, STATE: _____

CONTACT: _____
PHONE: _____
ZIP CODE: _____

ARCHITECT: Gregory T. Hicks & Associates
ADDRESS: 110 Second St. SW, Suite 204
CITY, STATE: Albuq. NM

CONTACT: David Kines
PHONE: 243-7492
ZIP CODE: 87102

SURVEYOR: High Mesa Consulting Group
ADDRESS: _____
CITY, STATE: _____

CONTACT: _____
PHONE: _____
ZIP CODE: _____

CONTRACTOR: _____
ADDRESS: _____
CITY, STATE: _____

CONTACT: _____
PHONE: _____
ZIP CODE: _____

TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
☐ DRAINAGE PLAN 1st SUBMITTAL
☐ DRAINAGE PLAN RESUBMITTAL
☐ CONCEPTUAL G & D PLAN
☐ GRADING PLAN
☐ EROSION CONTROL PLAN
☒ ENGINEER'S CERT (HYDROLOGY)
☐ CLOMR/LOMR
☐ TRAFFIC CIRCULATION LAYOUT
☐ ENGINEER/ARCHITECT CERT (TCL)
☐ ENGINEER/ARCHITECT CERT (DRB S.P.)
☐ ENGINEER/ARCHITECT CERT (AA)
☐ OTHER (Supplemental Information)

CHECK TYPE OF APPROVAL SOUGHT:

- ☐ SIA/FINANCIAL GUARANTEE RELEASE
☐ PRELIMINARY PLAT APPROVAL
☐ S. DEV. PLAN FOR SUB'D APPROVAL
☐ S. DEV. FOR BLDG. PERMIT APPROVAL
☐ SECTOR PLAN APPROVAL
☐ FINAL PLAT APPROVAL
☐ FOUNDATION PERMIT APPROVAL
☐ BUILDING PERMIT APPROVAL
☒ CERTIFICATE OF OCCUPANCY (PERM)
☐ CERTIFICATE OF OCCUPANCY (TEMP)
☐ GRADING PERMIT APPROVAL
☐ PAVING PERMIT APPROVAL
☐ WORK ORDER APPROVAL
☐ OTHER (S.O.19 Approval)

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☐ YES
☐ NO
☐ COPY PROVIDED

SUBMITTED BY: Fred C. Arfman, PE
Isacson & Arfman, P.A.

DATE: 08-29-11

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope to the proposed development define the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

1. **Conceptual Grading and Drainage Plan:** Required for approval of Site Development Plans greater than five (5) acres and Sector Plans.
2. **Drainage Plans:** Required for building permits, grading permits, paving permits and site plans less than five (5) acres.
3. **Drainage Report:** Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more.

HYDROLOGY
SECTION

CITY OF ALBUQUERQUE



June 10, 2011

Fred C. Arfman, P.E.
Isaacson & Arfman, P.A.
128 Monroe St NE
Albuquerque, NM 87108

**Re: Zuni Elementary School-Cafeteria Addition,
Grading and Drainage Plan
Engineer's Stamp dated 5-16-11 (H18/D054)**

Dear Mr. Arfman,

Based upon the information provided in your submittal received 5-17-11, the above referenced plan is approved for Building Permit and SO 19 Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

As you are aware, a separate permit (SO 19) is required for construction within City ROW. A copy of this approval letter must be on hand when applying for the excavation/barricading permit.

To obtain a temporary or permanent CO, Engineer Certification of the Grading Plan per the DPM is required and the connection to the back of the inlet in the City ROW must be inspected and accepted. Please contact Martin Pacheco, 235-8016, to schedule an inspection.

A field inspection was accomplished on 6/8/2011 and it revealed that the sidewalk culvert was not built per the plan, stamp dated 1/25/11. Instead, a 6" pipe through the back of curb was placed. We appreciate that a pipe through the curb was placed instead of the sidewalk culvert, however according to the city STD. DWG. 2235 it shows a 4" pipe. Before a C.O. can be granted for this project the 6" pipe needs to be replaced with a 4" pipe to meet this City Standard. This change also needs to be shown on the plans.

If you have any questions, you can contact me at 924-3986 or Rudy Rael at 924-3977.

Sincerely,

Curtis A. Cherne, P.E.
Senior Engineer, Planning Dept.
Development and Building Services

C: File
Antoinette Baldonado, Excavation and Barricading
Duane Schmitz, Street/Storm Drain Maintenance

CITY OF ALBUQUERQUE



December 22, 2010

Jeffrey G. Mortensen, P.E.
High Mesa Consulting Group
6010-B Midway Park Blvd NE
Albuquerque, NM 87109

**Re: Zuni Elementary School Kitchen/Cafeteria, 6300 Claremont Ave NE
(H-18/D054),
Permanent Certificate of Occupancy - Approved
Approved Engineer's Stamp date: 5/6/10,
Certification dated: 12-21-10**

Dear Mr. Mortensen,

Based upon the information provided in the submittal received 12-21-10, the above referenced Certification is approved for release of Permanent Certificate of Occupancy by Hydrology.

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

Sincerely,

Curtis A. Cherne, P.E.
Senior Engineer—Hydrology
Development and Building Services

Copy: file
CO Clerk

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

CITY OF ALBUQUERQUE



February 2, 2010

Fred C. Arfman, P.E.
Isaacson & Arfman, P.A.
128 Monroe St NE
Albuquerque, NM 87108

**Re: Zuni Elementary School-Cafeteria Addition, Grading and Drainage Plan
Engineer's Stamp dated 1-25-10 (H18/D054)**

Dear Mr. Arfman,

Based upon the information provided in your submittal dated 2-1-10, the above referenced plan is approved for Building Permit and SO 19 Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

A separate permit (SO 19) is required for construction within City ROW. A copy of this approval letter must be on hand when applying for the excavation/barricading permit.

To obtain a temporary or permanent CO, Engineer Certification of the Grading Plan per the DPM is required and the sidewalk culvert in the City ROW must be inspected and accepted. Please contact Duane Schmitz, 235-8016, to schedule an inspection.

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

Sincerely,

Curtis A. Cherne, P.E.
Senior Engineer, Planning Dept.
Development and Building Services

C: file
Antoinette Baldonado, Excavation and Barricading
Duane Schmitz, Street/Storm Drain Maintenance

CITY OF ALBUQUERQUE



May 18, 2010

Jeff Mortensen, P.E.
High Mesa Consulting Group
6010-B Midway Park Blvd. NE
Albuquerque, NM 87109

Re: Zuni ES Kitchen/Cafeteria
Zuni Elementary School Tract A, Rough Grading Plan
Engineer's Stamp dated 05-06-2010 (H18/D054)

Dear Mr. Mortensen,

Based upon the information provided in your submittal received 05/14/2010, the above referenced plan is approved for Grading and Paving Permits.

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

Sincerely,

Curtis A. Cherne, PE.
Senior Engineer, Planning Dept.
Development and Building Services

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

C: file

CITY OF ALBUQUERQUE
DEVELOPMENT & BUILDING SERVICES CENTER
PLANNING DEPARTMENT/HYDROLOGY SECTION

HYDROLOGY & TRANSPORTATION PREDESIGN CONFERENCE RECAP

DRAINAGE FILE/ZONE ATLAS PAGE NUMBER: H-18/D054⁷ DATE: April 28, 2010
CROSS REFERENCE NUMBERS: EPC _____ DRB _____ DRC _____
SUBJECT: ZUNI ELEMENTARY SCHOOL CAFETERIA & KITCHEN PORTABLES
STREET ADDRESS: 6300 CLAREMONT AVENUE, NE, ALBUQUERQUE, NEW MEXICO 87110
SUBDIVISION NAME: LOT A, ZUNI ELEMENTARY SCHOOL

TYPE OF APPROVAL

- ☐ PRELIMINARY & FINAL PLAT
☐ BUILDING PERMIT
☒ GRADING PERMIT (& PAVING)
☐ SITE DEVELOPMENT PLAN FOR SUBDIVISION
☐ OTHER _____

ATTENDEE:
JEFF MORTENSEN
BRAD BINGHAM

ORGANIZATION:
HMCG
HYDROLOGY

PHONE:
345-4250
924-3986

FINDINGS:

- A. AN APPROVED GRADING PLAN PER THE DPM WILL BE REQUIRED TO SUPPORT GRADING AND PAVING PERMITS
B. FREE DISCHARGE PERMISSIVE
1) FOR DIRECT DISCHARGE TO ADJACENT CITY STREETS
2) FOR SURFACE DISCHARGE TO ARIZONA STREET NE VIA EXISTING DRIVEPAD
3) DUE TO LIMITED SCOPE AND TEMPORARY NATURE OF PROJECT
C. DRAINAGE SUBMITTAL MUST ADDRESS THE FOLLOWING:
1) TEMPORARY NATURE OF FACILITY
2) RESTORATION OF SITE UPON REMOVAL FROM SITE
D. WORK LIES WITHIN BASIN A-1 OF THE MDP DATED 02-15-2001

THE UNDERSIGNED AGREE THAT THE ABOVE FINDINGS ARE SUMMARIZED ACCURATELY AND ARE ONLY SUBJECT TO CHANGE IF FURTHER INVESTIGATION REVEALS THAT THE FINDINGS ARE NOT REASONABLE OR THAT THEY ARE BASED UPON INACCURATE INFORMATION.

SIGNED: Bradley L. Bingham
TITLE: CITY HYDROLOGIST
DATE: 5/7/10

SIGNED: _____
TITLE: CONSULTANT
DATE: _____

NOTE: PLEASE PROVIDE A COPY OF THIS RECAP WITH EACH DRAINAGE & TRANSPORTATION SUBMITTAL.

HMCG PROJECT NO. 2008.199.5

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(Rev. 12/05)

PROJECT TITLE: Zuni Elementary School – Cafeteria Additions ZONE MAP/DRG. FILE # H-18/ d054
DRB#: _____ EPC#: _____ WORK ORDER#: _____

LEGAL DESCRIPTION: Tract A – Zuni Elementary School, Albuquerque, New Mexico
CITY ADDRESS: 6300 Claremont Ave. NE, 87110

ENGINEERING FIRM: ISAACSON & ARFMAN, PA
ADDRESS: 128 MONROE NE
CITY, STATE: ALBUQUERQUE, NM

CONTACT: Fred C. Arfman
PHONE: 268-8828
ZIP CODE: 87108

OWNER: Albuquerque Public Schools
ADDRESS: _____
CITY, STATE: _____

CONTACT: _____
PHONE: _____
ZIP CODE: _____

ARCHITECT: Gregory T. Hicks & Associates
ADDRESS: 110 Second St. SW, Suite 204
CITY, STATE: Albuq. NM

CONTACT: David Kines
PHONE: 243-7492
ZIP CODE: 87102

SURVEYOR: High Mesa Consulting Group
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- ☐ DRAINAGE REPORT
- ☐ DRAINAGE PLAN 1st SUBMITTAL
- ☒ DRAINAGE PLAN RESUBMITTAL
- ☐ CONCEPTUAL G & D PLAN
- ☐ GRADING PLAN
- ☐ EROSION CONTROL PLAN
- ☐ ENGINEER'S CERT (HYDROLOGY)
- ☐ CLOMR/LOMR
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- ☐ ENGINEER/ARCHITECT CERT (DRB S.P.)
- ☐ ENGINEER/ARCHITECT CERT (AA)
- ☐ OTHER (Supplemental Information)

CHECK TYPE OF APPROVAL SOUGHT:

- ☐ SIA/FINANCIAL GUARANTEE RELEASE
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- ☐ S. DEV. PLAN FOR SUB'D APPROVAL
- ☐ S. DEV. FOR BLDG. PERMIT APPROVAL
- ☐ SECTOR PLAN APPROVAL
- ☐ FINAL PLAT APPROVAL
- ☐ FOUNDATION PERMIT APPROVAL
- ☒ BUILDING PERMIT APPROVAL
- ☐ CERTIFICATE OF OCCUPANCY (PERM)
- ☐ CERTIFICATE OF OCCUPANCY (TEMP)
- ☐ GRADING PERMIT APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☐ WORK ORDER APPROVAL
- ☒ OTHER (S.O. 19 Approval)

WAS A PRE-DESIGN CONFERENCE ATTENDED:

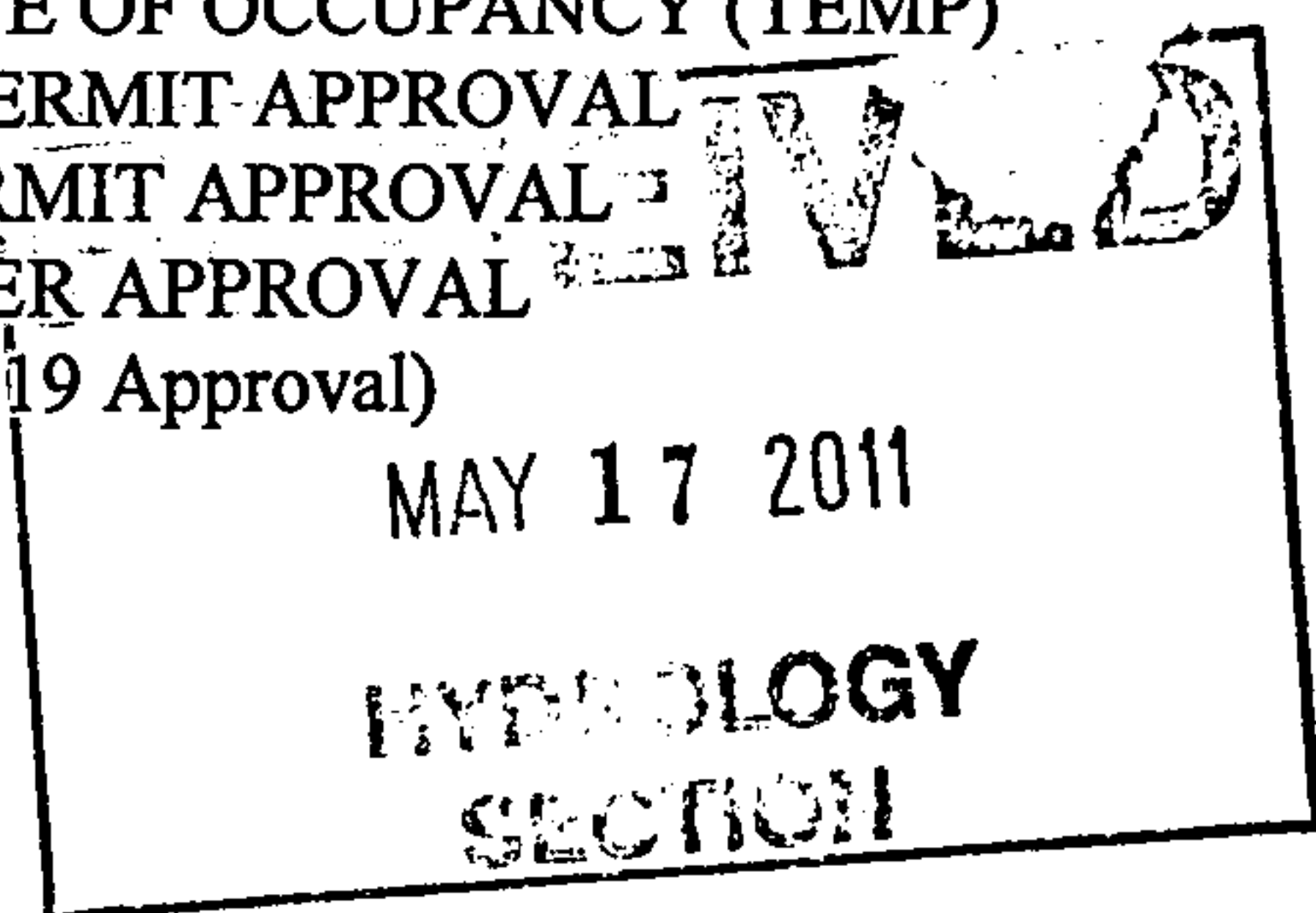
- ☐ YES
- ☐ NO
- ☐ COPY PROVIDED

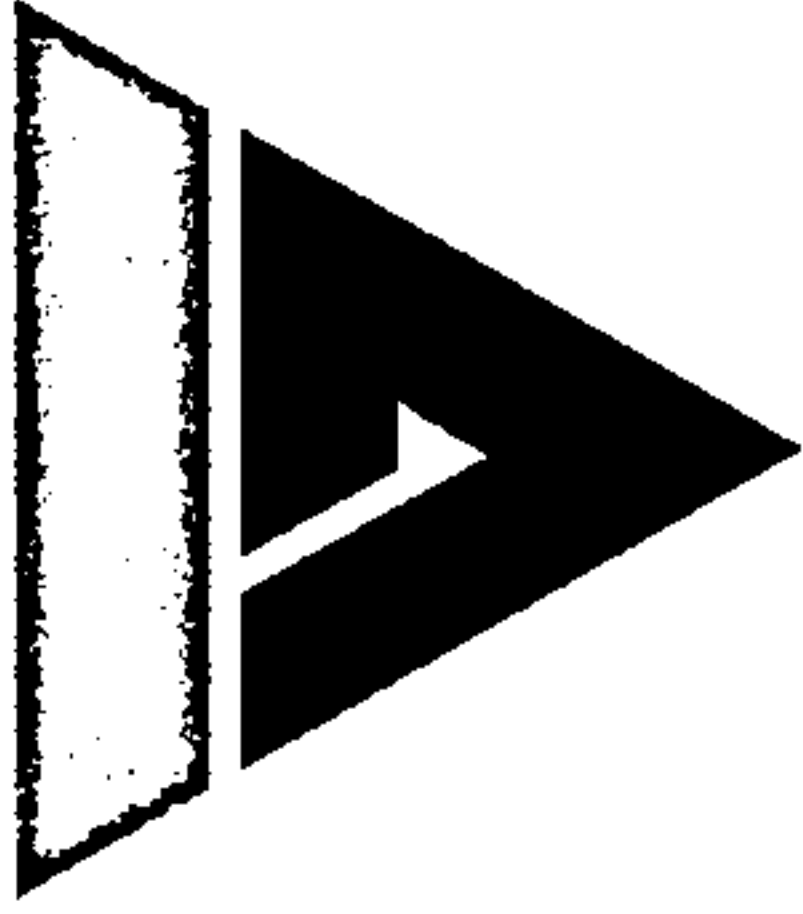
SUBMITTED BY: Fred C. Arfman, PE
Isaacson & Arfman, P.A.

DATE: 5/16/2011

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope to the proposed development define the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

1. **Conceptual Grading and Drainage Plan:** Required for approval of Site Development Plans greater than five (5) acres and Sector Plans.
2. **Drainage Plans:** Required for building permits, grading permits, paving permits and site plans less than five (5) acres.
3. **Drainage Report:** Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more.





Isaacson & Arfman, P.A.

Consulting Engineering Associates

*Thomas O. Isaacson, PE & LS * Fred C. Arfman, PE * Åsa Nilsson-Weber, PE*

May 16, 2011

Mr. Curtis Cherne, PE
Senior Engineer, Planning Dept.
C.O.A. Hydrology

RE: ZUNI ELEMENTARY SCHOOL-CAFETERIA ADDITION, GRADING AND DRAINAGE PLAN ENGINEER'S STAMP DATED 05-16-2011 (H18/D054)

Dear Mr. Cherne,

Attached are two copies of the revised Drainage and Grading Plan (sheets CG-101 and CG-102) for the above-mentioned project. Revisions are as follows:

1. Client has requested that the courtyard storm drain system be discharged directly into the existing public storm sewer in Claremont Avenue. This submittal provides for updated storm drain design with associated notes for connecting to the back of the existing inlet.
2. Keyed notes and details updated in response to drainage revisions.
3. The S.O.19 notice on sheet CG-102 was previously used for the public covered sidewalk culvert. Please add the connection to the inlet as part of the S.O.19 construction.

Please don't hesitate to call Bryan Bobrick, or me with any questions or comments.

Sincerely,
ISAACSON & ARFMAN P.A.



Fred C. Arfman, PE
FCA/bjb
Attachments

CITY OF ALBUQUERQUE



January 29, 2010

Fred C. Arfman, P.E.
Isaacson & Arfman, P.A.
128 Monroe St NE
Albuquerque, NM 87108

**Re: Zuni Elementary School-Cafeteria Addition, Grading and Drainage Plan
Engineer's Stamp dated 1-13-10 (H18/D054)**

Dear Mr. Arfman,

Based upon the information provided in your submittal dated 1-19-10, the above referenced plan cannot be approved for Building Permit or SO 19 Permit until the following comments are addressed:

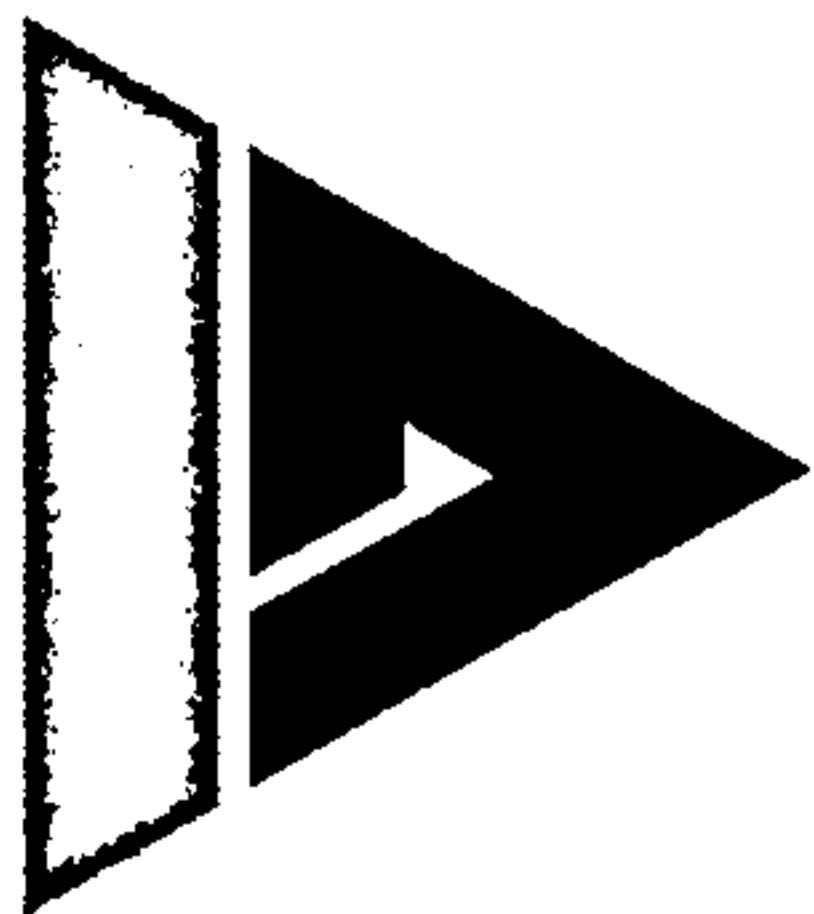
- The Std Dwg for a pipe penetration through the curb is 2235 with a 4 inch nominal PVC pipe.
- It appears the wall, Keyed Note 4, should be a retaining wall.
- Keyed Note 15 specifies Sheet CG-501, but the detail is on Sheet CG-102.
- On Sheet CG-102, the Matchline refers to Sheet CG-102. It should refer to Sheet CG-101.
- The build note for the grate on Detail B1 on Sheet CG-102 specifies a "...12 inch out"?
- I would expect the outlet, Keyed Note 21, to plug. Flow will exit the nearest upstream inlet and should drain without a problem.
- The 18" storm drain outfalls to a channel with a 2 foot sidewalk culvert downstream. The capacity of the sidewalk culvert is approximately 2.4 cfs, whereas the flow entering the sidewalk culvert is approximately 5 cfs.

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

Sincerely,

Curtis A. Cherne, P.E.
Senior Engineer, Planning Dept.
Development and Building Services

C: file



Isaacson & Arfman, P.A.

Consulting Engineering Associates

*Thomas O. Isaacson, PE & LS * Fred C. Arfman, PE * Åsa Nilsson-Weber, PE*

February 1, 2010

Mr. Curtis Cherne, PE
Senior Engineer, Planning Dept.
C.O.A. Hydrology

RE: ZUNI ELEMENTARY SCHOOL-CAFETERIA ADDITION, GRADING AND DRAINAGE PLAN ENGINEER'S STAMP DATED 1-13-10 (H18/D054)

Dear Mr. Cherne,

In response to your review comments dated January 29, 2010, attached are two copies of the revised Drainage and Grading Plan (sheets CG-101 and CG-102) with revisions as follows:

1. Drainline through curb replaced with 12" wide covered sidewalk. COA Std Dwg 2236 is referenced.
2. Keyed Note 4 relabeled as retaining wall. Top of retaining wall elevations added to plan.
3. Keyed Note 15 reference to detail sheet corrected.
4. Matchline reference corrected.
5. Detail B1 on Sheet CG-102 clarified.

Please don't hesitate to call me or Bryan Bobrick, with any questions or comments.

Sincerely,
ISAACSON & ARFMAN P.A.

Fred C. Arfman, PE
FCA/bjb
Attachments

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(Rev. 12/05)

PROJECT TITLE: Zuni Elementary School – Cafeteria Additions ZONE MAP/DRG. FILE # H-18/ d054
DRB#: _____ EPC#: _____ WORK ORDER#: _____

LEGAL DESCRIPTION: Tract A – Zuni Elementary School, Albuquerque, New Mexico
CITY ADDRESS: 6300 Claremont Ave. NE, 87110

ENGINEERING FIRM: ISAACSON & ARFMAN, PA
ADDRESS: 128 MONROE NE
CITY, STATE: ALBUQUERQUE, NM

CONTACT: Fred C. Arfman
PHONE: 268-8828
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☐ PAVING PERMIT APPROVAL
☐ WORK ORDER APPROVAL
☒ OTHER (S.O. Approval)

WAS A PRE-DESIGN CONFERENCE ATTENDED:

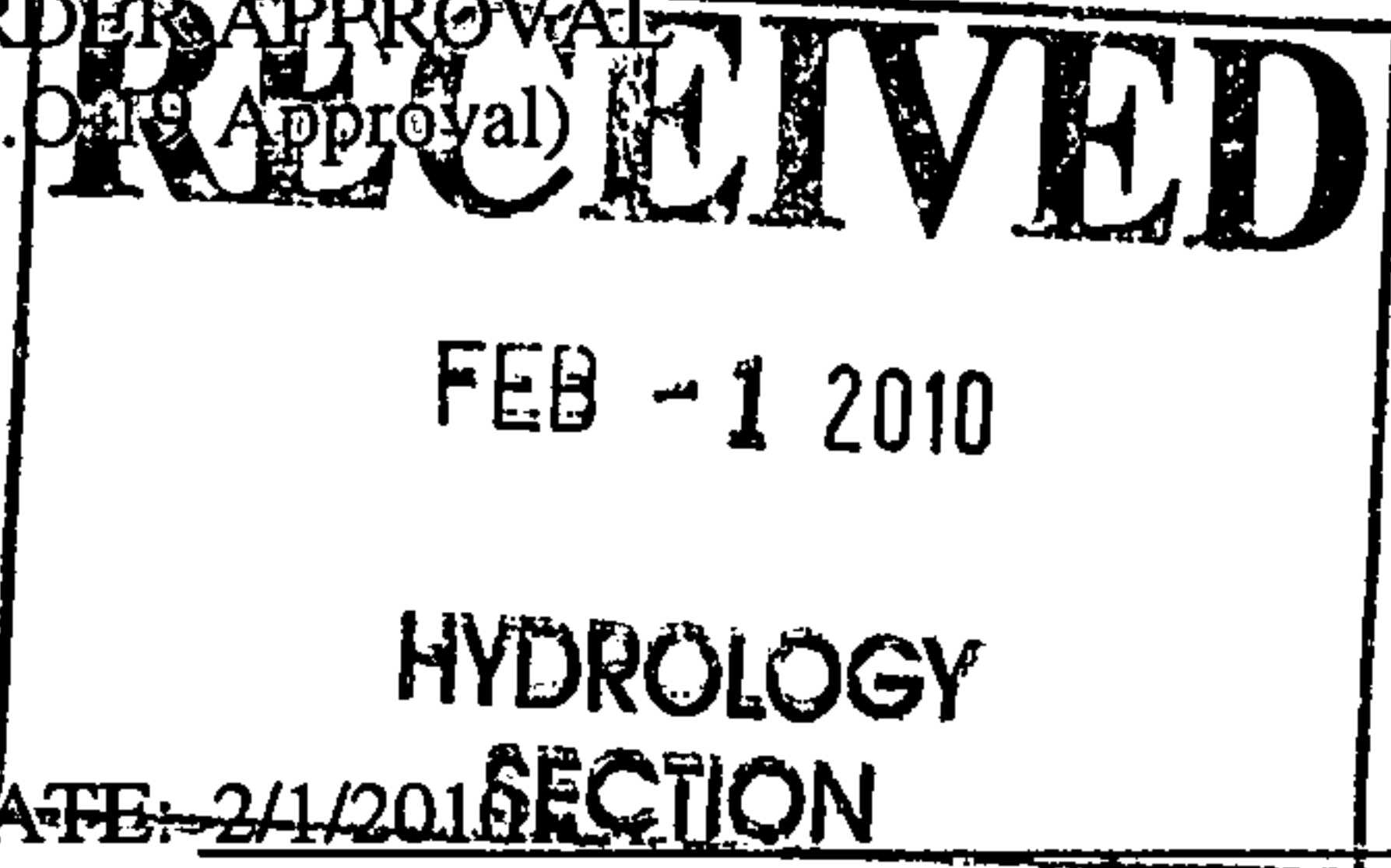
☐ YES
☐ NO
☐ COPY PROVIDED

SUBMITTED BY: Fred C. Arfman, PE
Isaacson & Arfman, P.A.

DATE: 2/1/2010

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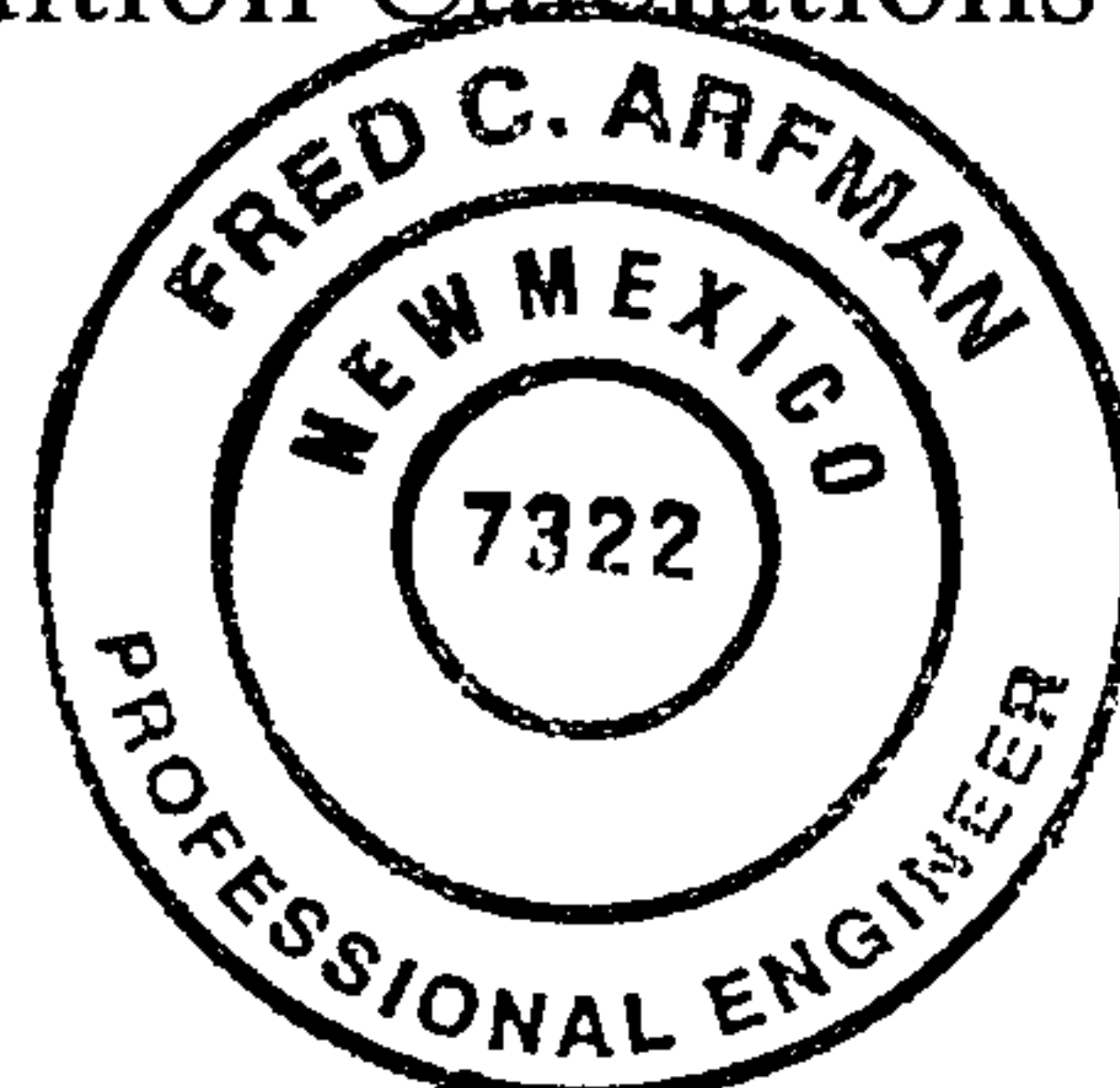
JANUARY 12, 2010

SUPPLEMENTAL INFORMATION

FOR

ZUNI ELEMENTARY SCHOOL

Cafeteria / Kitchen Addition Calculations



BY

Fred C. Arfman 01.13.10

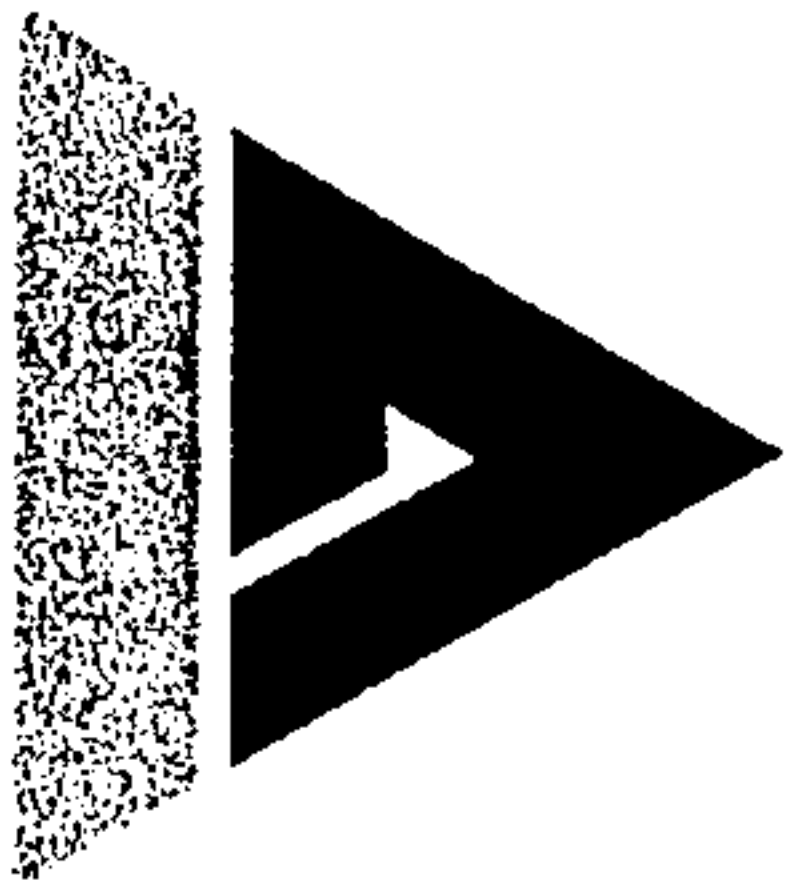


IA Project No. 1735

RECEIVED

JAN 19 2010

HYDROLOGY
SECTION



Isaacson & Arfman, P.A.

Consulting Engineering Associates

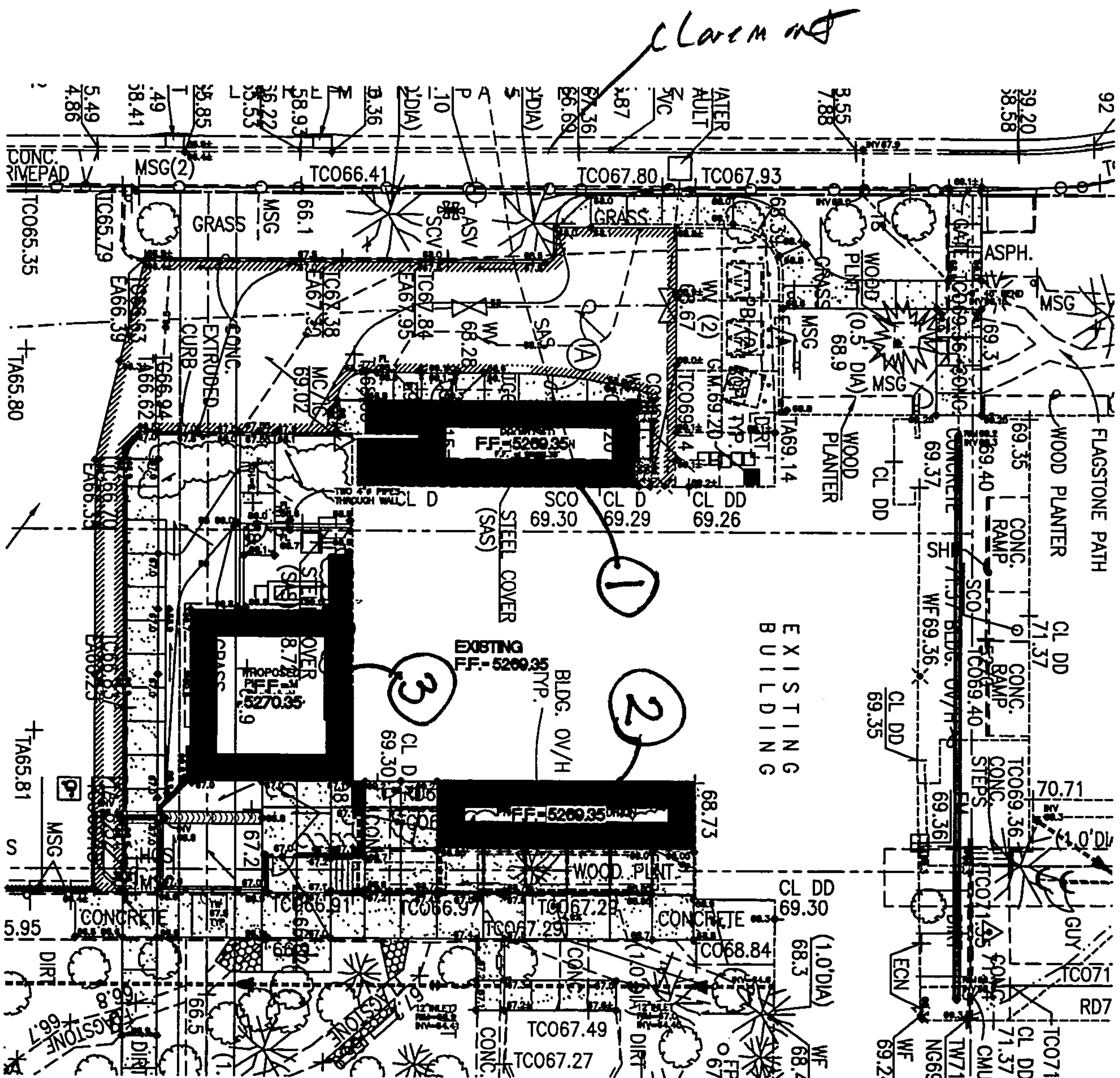
*Thomas O. Isaacson, PE & LS * Fred C. Arfman, PE * Åsa Nilsson-Weber, PE*

SUPPLEMENTAL INFORMATION - DRAINAGE DISCHARGE RATES

Per the previously approved drainage plans prepared by JMA, Inc (H18/D54) with engineer's stamp dates of 04-21-94 and 02-15-01 (see attached plan exhibits), the overall school site consists of three drainage basins. The proposed construction will have a negligible effect on the existing drainage patterns and discharge rates as follows:

1. Addition no. 1 (see Building Additions Map for addition locations) consists of a 740 sf kitchen addition which will replace existing impervious (treatment D). No change to discharge rates will occur. Discharge will continue to pass to Claremont Avenue.
2. Addition no. 2 consists of a 540 sf dining addition which will replace existing desert landscaping (treatment C). The discharge rate increase of 0.2 cfs is negligible and will continue ~~south~~ to Arizona St. as part of master plan basin A-1.
west ?
3. Addition no. 3 consists of a 900 sf platform addition which will replace existing grass (treatment B). The discharge rate increase of 0.05 cfs is negligible and will continue to discharge ~~south~~ to Arizona St. as part of master plan basin A-1.
west ?

11



Claremont

CALCULATIONS: Zuni Elementary School - Cafeteria / Kitchen Additions : 1-12-10

Based on Drainage Design Criteria for City of Albuquerque Section 22.2, DPM, Vol 2, dated Jan., 1993

ON-SITE**ADDITION NO. 1**

740

SF

=

0.0

100-year, 6-hour

HISTORIC FLOWS:**DEVELOPED FLOWS:****EXCESS PRECIP:**

	Treatment SF	%
Area A =	0	0%
Area B =	0	0%
Area C =	0	0%
Area D =	740	100%
Total Area =	740	100%

	Treatment SF	%
Area A =	0	0%
Area B =	0	0%
Area C =	0	0%
Area D =	740	100%
Total Area =	740	100%

Precip. Zone	3
$E_A = 0.66$	
$E_B = 0.92$	
$E_C = 1.29$	
$E_D = 2.36$	

On-Site Weighted Excess Precipitation (100-Year, 6-Hour Storm)

$$\text{Weighted E} = \frac{E_A A_A + E_B A_B + E_C A_C + E_D A_D}{A_A + A_B + A_C + A_D}$$

Historic E =	2.36 in.	Developed E =	2.36 in.
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On-Site Volume of Runoff: $V_{360} = E * A / 12$

Historic V_{360} =	146 CF	Developed V_{360} =	146 CF
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On-Site Peak Discharge Rate: $Q_p = Q_{pA} A_A + Q_{pB} A_B + Q_{pC} A_C + Q_{pD} A_D / 43,560$

For Precipitation Zone 3

$Q_{pA} = 1.87$

$Q_{pC} = 3.45$

$Q_{pB} = 2.60$

$Q_{pD} = 5.02$

Historic Q_p =	0.1 CFS	Developed Q_p =	0.1 CFS
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CALCULATIONS: Zuni Elementary School - Cafeteria / Kitchen Additions : 1-12-10

Based on Drainage Design Criteria for City of Albuquerque Section 22.2, DPM, Vol 2, dated Jan., 1993

ON-SITE**ADDITION NO. 2**

540

SF

=

0.0

100-year, 6-hour

HISTORIC FLOWS:**DEVELOPED FLOWS:****EXCESS PRECIP:**

	Treatment SF	%
Area A =	0	0%
Area B =	0	0%
Area C =	540	100%
Area D =	0	0%
Total Area =	540	100%

	Treatment SF	%
Area A =	0	0%
Area B =	0	0%
Area C =	0	0%
Area D =	540	100%
Total Area =	540	100%

Precip. Zone	
3	
$E_A = 0.66$	
$E_B = 0.92$	
$E_C = 1.29$	
$E_D = 2.36$	

On-Site Weighted Excess Precipitation (100-Year, 6-Hour Storm)

$$\text{Weighted E} = \frac{E_A A_A + E_B A_B + E_C A_C + E_D A_D}{A_A + A_B + A_C + A_D}$$

Historic E	=	1.29 in.	Developed E	=	2.36 in.
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On-Site Volume of Runoff: $V_{360} = E \cdot A / 12$

Historic V_{360}	=	58 CF	Developed V_{360}	=	106 CF
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On-Site Peak Discharge Rate: $Q_p = Q_{pA} A_A + Q_{pB} A_B + Q_{pC} A_C + Q_{pD} A_D / 43,560$

For Precipitation Zone 3

$Q_{pA} = 1.87$

$Q_{pC} = 3.45$

$Q_{pB} = 2.60$

$Q_{pD} = 5.02$

Historic Q_p	=	0.04 CFS	Developed Q_p	=	0.06 CFS
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CALCULATIONS: Zuni Elementary School - Cafeteria / Kitchen Additions : 1-12-10

Based on Drainage Design Criteria for City of Albuquerque Section 22.2, DPM, Vol 2, dated Jan., 1993

ON-SITE
ADDITION NO. 3

900

SF

=

0.0

100-year, 6-hour

HISTORIC FLOWS:
DEVELOPED FLOWS:
EXCESS PRECIP:

	Treatment SF	%
Area A =	0	0%
Area B =	900	100%
Area C =	0	0%
Area D =	0	0%
Total Area =	900	100%

	Treatment SF	%
Area A =	0	0%
Area B =	0	0%
Area C =	0	0%
Area D =	900	100%
Total Area =	900	100%

Precip. Zone	
3	
$E_A = 0.66$	
$E_B = 0.92$	
$E_C = 1.29$	
$E_D = 2.36$	

On-Site Weighted Excess Precipitation (100-Year, 6-Hour Storm)

$$\text{Weighted E} = \frac{E_A A_A + E_B A_B + E_C A_C + E_D A_D}{A_A + A_B + A_C + A_D}$$

Historic E =	0.92 in.	Developed E =	2.36 in.
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 On-Site Volume of Runoff: $V_{360} = E * A / 12$

Historic V_{360} =	69 CF	Developed V_{360} =	177 CF
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 On-Site Peak Discharge Rate: $Q_p = Q_{pA} A_A + Q_{pB} A_B + Q_{pC} A_C + Q_{pD} A_D / 43,560$

For Precipitation Zone 3

$$Q_{pA} = 1.87$$

$$Q_{pC} = 3.45$$

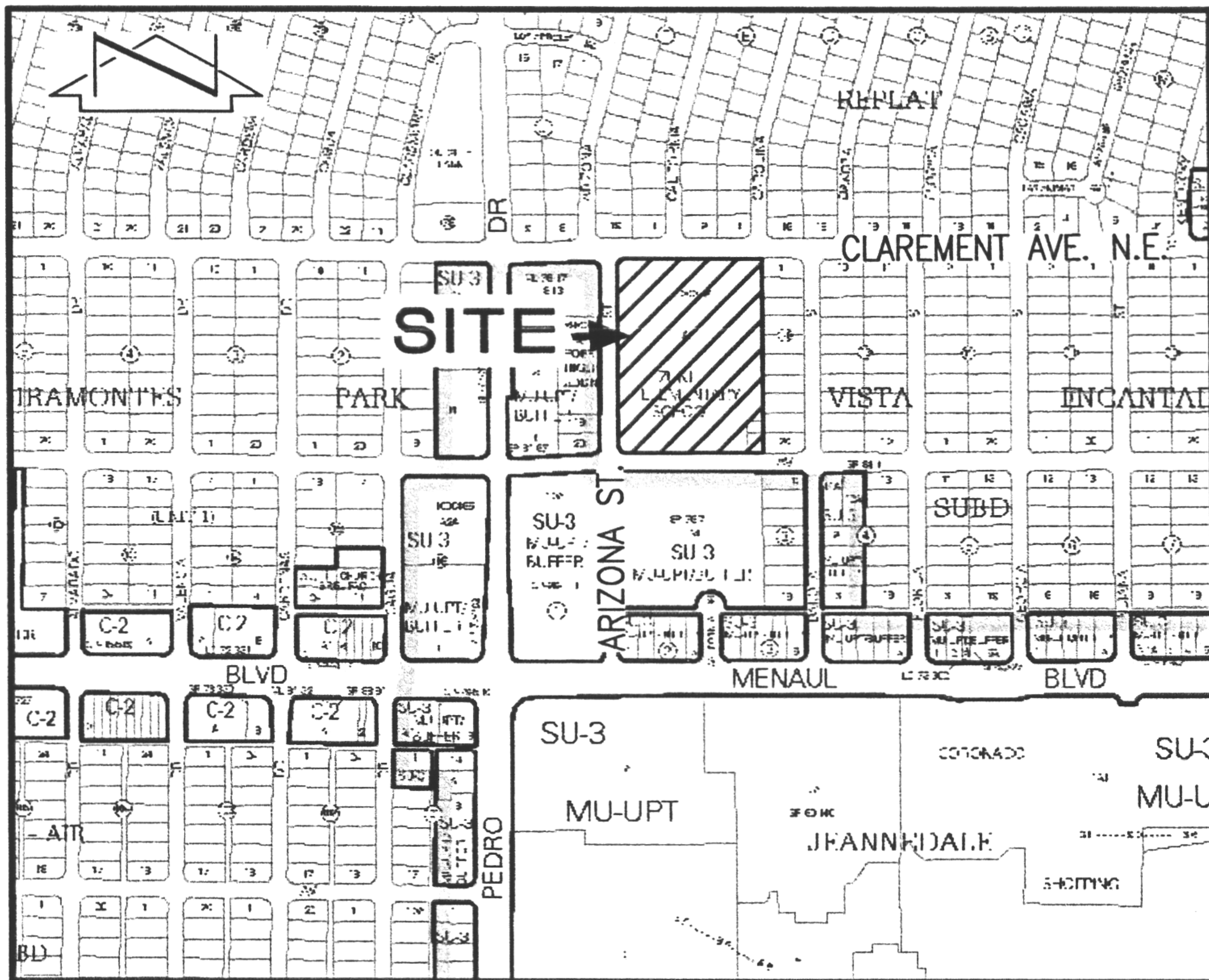
$$Q_{pB} = 2.60$$

$$Q_{pD} = 5.02$$

Historic Q_p =	0.05 CFS	Developed Q_p =	0.10 CFS
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Zuni ES

ZONE ATLAS PAGE:	H-18
HYDROLOGY FILE #	H-18/D054
MASTER DRAINAGE PLAN: * 91.077.1	YES
MDP ENGINEER OF RECORD:	HMCG
MDP DATE:	1994
SUPPORTING PLANS:	N/A



B1 VICINITY MAP H-18
SCALE: 1" = 750'



A1 F.I.R.M. PANEL 352 OF 825
SCALE: 1" = 500'

File Path: E:\DATA\2008.180.1\2008.180.1.DWG
File Name: 8180_1.DWG
Plot Date: 07-16-2009
Plot Time: 11:50 am

ZUNI ELEMENTARY SCHOOL
6300 CLAREMONT N.W.
ALBUQUERQUE, NM 87110

JOB NO. 2008.180.1
DATE: 07/16/09



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

August 22, 2001

Jeff Mortensen, P.E.
Jeff Mortensen & Assoc.
6010-B Midway Park Blvd NE
Albuquerque, New Mexico 87109

RE: ZUNI ELEMENTARY SCHOOL MULTI-PURPOSE ADDITION (H-18/D54)
(Bounded by: Phoenix, Arizona & Claremont St.)
ENGINEERS CERTIFICATION FOR CERTIFICATE OF OCCUPANCY
ENGINEERS STAMP DATED 4/26/2000 Rev. 2/19/2001
ENGINEERS CERTIFICATION DATED 8/21/2001

Dear Mr. Mortensen:

Based upon the information provided in your Engineers Certification submittal dated 8/22/2001, the above referenced site is approved for a Permanent Certificate of Occupancy for Zuni Elementary School Multi-Purpose Addition.

If I can be of further assistance, please contact me at 924-3981.

Sincerely,

Teresa A. Martin
Hydrology Plan Checker
Public Works Department
BVB

C: Vickie Chavez, CAO
✓ drainage file
approval file



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

April 28, 2000

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

Attn: J.A.Peterson

***RE: ZUNI ELEMENTARY SCHOOL MULTI-PURPOSE ADDITION (H18-D54).
GRADING AND DRAINAGE PLAN FOR BUILDING PERMIT AND SO#19
PERMIT APPROVALS. ENGINEER'S STAMP DATED APRIL 26, 2000.***

Dear Mr. Mortensen:

Based on the information provided on your April 26, 2000 submittal, the above referenced project is approved for both Building Permit and SO#19 Permit. This submittal added the required SO#19 data.

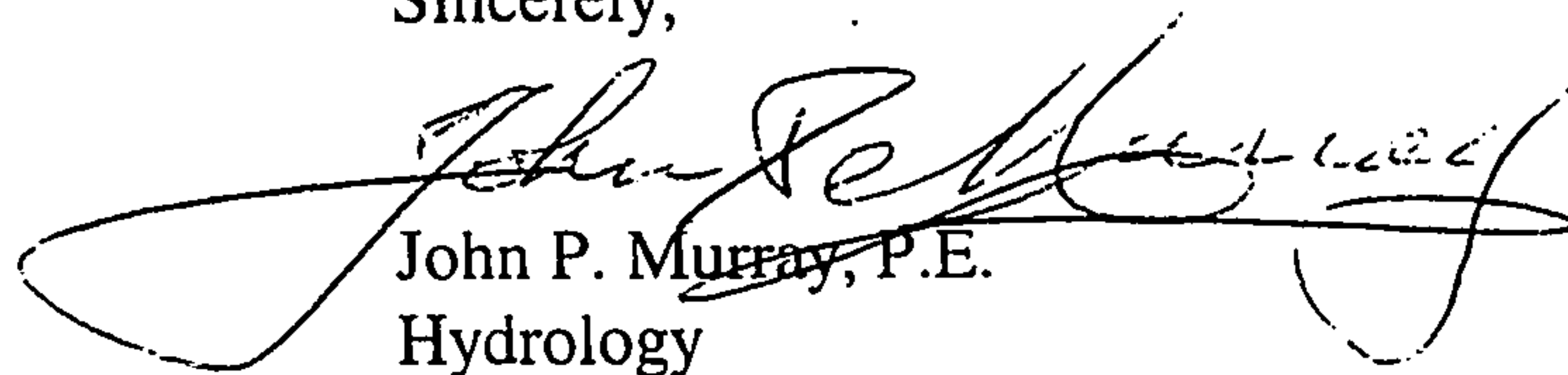
Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

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 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: Pam Lujan
D. Salas, St. Maint.
Whitney Reiersen
✓ File



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

March 23, 2001

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

Attn: J.A.Peterson

**RE: ZUNI ELEMENTARY SCHOOL MULTI-PURPOSE ADDITION (H18-D54).
Updated GRADING AND DRAINAGE PLAN FOR BUILDING PERMIT.
ENGINEER'S STAMP DATED FEBRUARY 19, 2001. Previously Stamped April 26,
2000.**

Dear Mr. Mortensen:

Based on the information provided on your February 20, 2001 submittal, the above referenced project is approved for Building Permit.

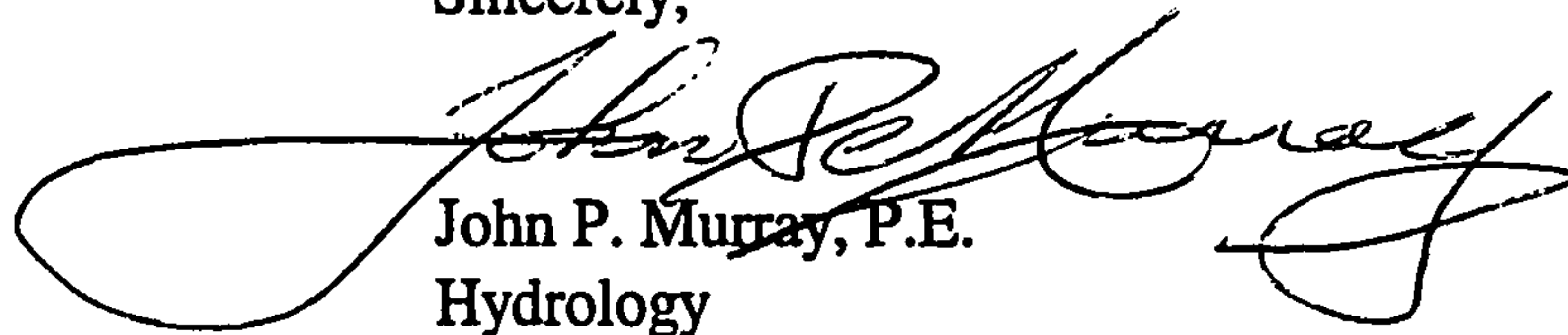
It is best to address such adjustments early on rather than waiting to record them in the Certification Process.

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

Prior to Certificate of Occpancy 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: Terri Martin
✓ File



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

May 6, 1994

Gary Bittner
Jeff Mortensen & Assoc.
6010-B Midway Park Blvd
Albuquerque, N.M. 87109

RE: GRADING & DRAINAGE PLAN FOR ZUNI ELEM SCHOOL (H-18/D54)
RECEIVED APRIL 21, 1994 FOR GRADING/PAVING PERMIT APPROVAL
ENGINEER'S STAMP DATED 04-21-94

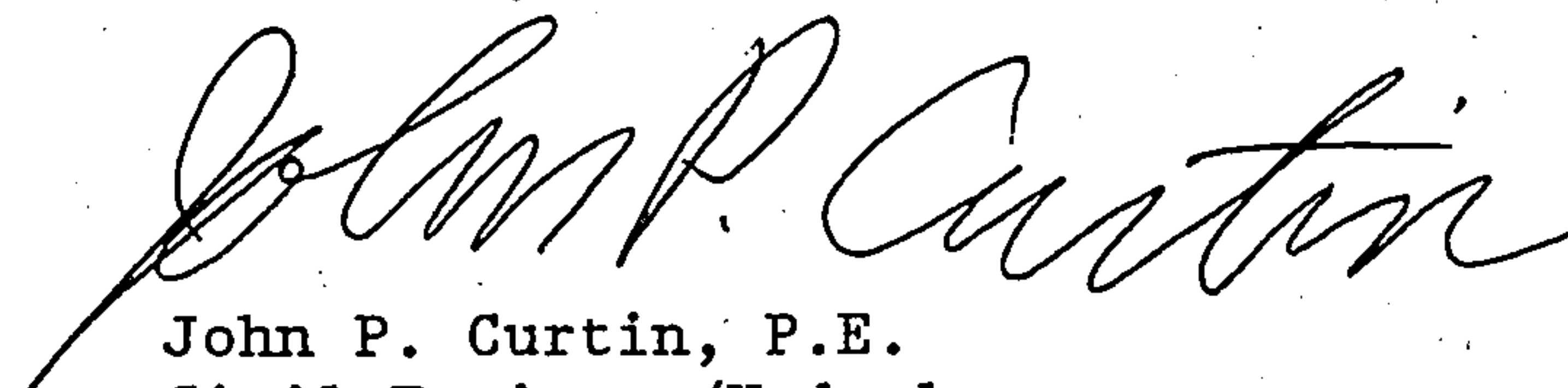
Dear Mr. Bittner:

Based on the information included in the submittal referenced above and a visit to the site, City Hydrology approves this project for Grading/Paving Permit.

Engineer's Certification of grading & drainage per DPM checklist is required for this project. Indicate the location of the inlet that drains Basin B and the inlets adjacent to the school.

If you have any questions about this project, You may contact me at 768-2727.

Sincerely,



John P. Curtin, P.E.
Civil Engineer/Hydrology

c: Andrew Garcia

WPHYD/8507/jpc



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

***Public Works Department
Transportation Development Services Section***

December 10, 2001

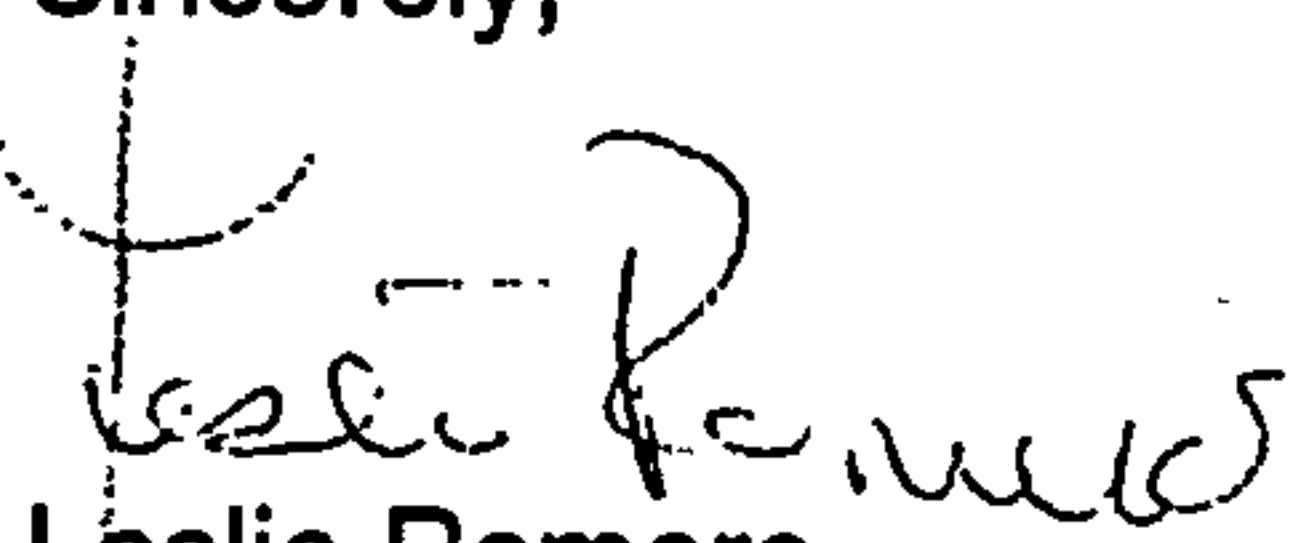
Francis Kilpatrick, Registered Architect
6020 Academy Rd. NE
Suite 205
Albuquerque, NM 87109

Re: Certification Submittal for Final Building Certificate of Occupancy for
Zuni Elementary School-Kindergarten & Multi-Purpose Additions, [H18 / D54]
6300 Claremont NE
Architect's Stamp Dated 11/21/01

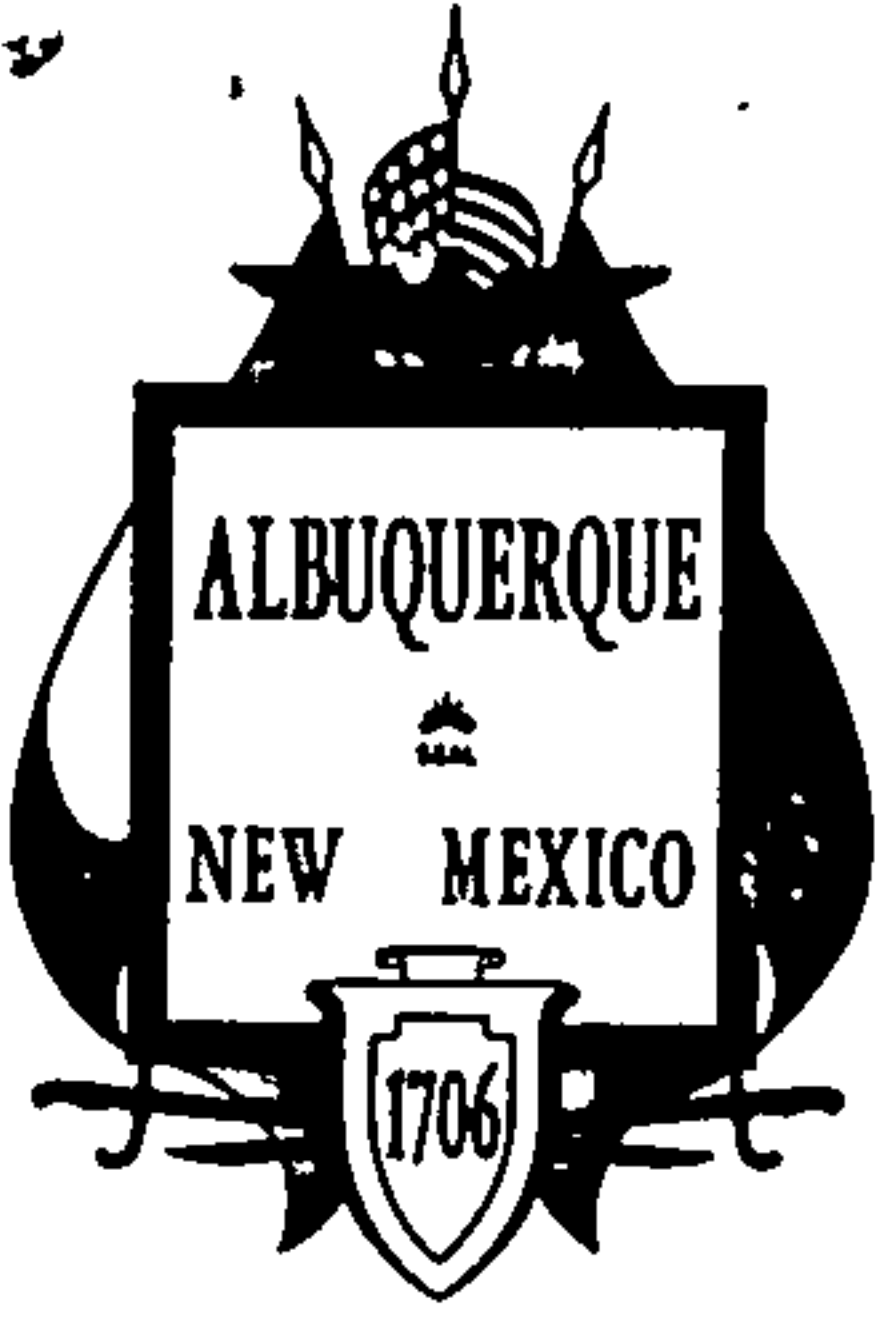
Dear Ms. Kilpatrick:

The TCL / Letter of Certification submitted is sufficient for acceptance by this office for final Certificate of Occupancy (C.O.). There was an error in the last letter requesting a Licensing Agreement. Mike Zamora, Plan Checker, has sent apologies to you for the misunderstanding. Notification has been made to Building and Safety and final C.O. has been logged in by Vicki Chavez in the Building Safety Section downstairs.

Sincerely,


Leslie Romero
Engineering Associate
Development and Building Services
Public Works Department

c: Terri Martin, Hydrology
Office File



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

***Public Works Department
Transportation Development Services Section***

December 6, 2001

Francis Kilpatrick, Registered Architect
6020 Academy Road NE
Suite 205
Albuquerque, NM 87109-3315

Re: Certification Submittal for Final Building Certificate of Occupancy for
Zuni Elementary School-Kindergarten & Multi-Purpose Additions, [H18 / D54]
6300 Claremont NE
Architect's Stamp Dated 11-21-01

Dear Mr. Kilpatrick:

The TCL / Letter of Certification submitted on 12/5/01 is not sufficient for acceptance by this office for final Certificate of Occupancy (C.O.).

The TCL in the plan set will be approved for final Certificate of Occupancy when a recorded copy of the Licensing Agreement is received by this office. Please submit agreement to the Hydrology Department for approval.

Sincerely,

Leslie Romero
Engineering Associate
Development and Building Services
Public Works Department

c: Engineer
Terri Martin, Hydrology
Mike Zamora, Plans Checker



ARCHITECTURE
ENGINEERING
PLANNING
INTERIOR DESIGN

6020 ACADEMY N.E. SUITE #205
ALBUQUERQUE, NEW MEXICO 87109
505 821 - 0235
FAX 505 821 - 0348

Date November 19, 2001
To: City of Albuquerque
Building Permit Department
From: Frances Kilpatrick

Greer Stafford / SJCF Project: APS Kindergarten and Multipurpose Additions to Zuni Elementary, Project No. 2589.11

RE: Architect's certification of parking and drive area construction

I have inspected all the drive and parking areas and associated sidewalks and certify that construction has been in accordance with the attached drawings.

A handwritten signature in cursive script, reading "Frances Kilpatrick".

Frances Kilpatrick
Architect

