

# CITY OF ALBUQUERQUE



October 2, 2008

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

**Re: Duranes Elementary School Kindergarten Addition, 2436 Zickert Rd. NW,  
(H-12/D006)**

**Approval of Permanent Certificate of Occupancy,**

**Engineer's Stamp Dated: 07-06-07**

**Certification dated 10-01-2008**

Mr. Means,

PO Box 1293

Based upon the information provided in your submittal received 10/02/08, 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

**DRAINAGE AND TRANSPORTATION INFORMATION SHEET**  
(REV 01/06 – KDM)

PROJECT TITLE: Duranos ES Kindergarten Addition ZONE MAP: H12/D006  
 DRB#: \_\_\_\_\_ EPC#: \_\_\_\_\_ WORK ORDER#: \_\_\_\_\_  
 LEGAL DESCRIPTION: Unplatted  
 CITY ADDRESS: 2436 Zickert Rd NW

ENGINEERING FIRM: High Mesa Consulting Group CONTACT: Graeme Means #13676  
 ADDRESS: 6010-B Midway Park Blvd NE PHONE: 345-4250  
 CITY, STATE: Albuquerque, NM ZIP CODE: 87109

OWNER: APS c/o Dept Facilities Design & Construction CONTACT: Myron Johnson  
 ADDRESS: 915 Oak St SE PHONE: 848-8811  
 CITY, STATE: ABQ, NM ZIP CODE: 87106

ARCHITECT: Baker A+D CONTACT: Mark Baker  
 ADDRESS: 529 Adams NE PHONE: 254-4697  
 CITY, STATE: ABQ, NM ZIP CODE: 87108

SURVEYING FIRM: High Mesa Consulting Group SURVEYOR: Charles G. Cala, Jr  
 ADDRESS: 6010-B Midway park Blve NE PHONE: 345-4250  
 CITY, STATE: Albuquerque, NM ZIP CODE: 87109

CONTRACTOR: FAMCO CONTACT: Architect  
 ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_  
 CITY, STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_

## TYPE OF SUBMITTAL:

DRAINAGE REPORT  
 DRAINAGE PLAN 1<sup>st</sup> SUBMITTAL  
 DRAINAGE PLAN RESUBMITTAL  
 CONCEPTUAL G & D PLAN  
 GRADING PLAN  
 EROSION CONTROL PLAN  
 **ENGINEER'S CERT (HYDROLOGY)**  
 CLOMR/LOMR  
 TRAFFIC CIRCULATION LAYOUT  
 ENGINEER'S CERT (TCL)  
 ENGINEER'S CERT (DRB SITE PLAN)  
 OTHER (SPECIFY)

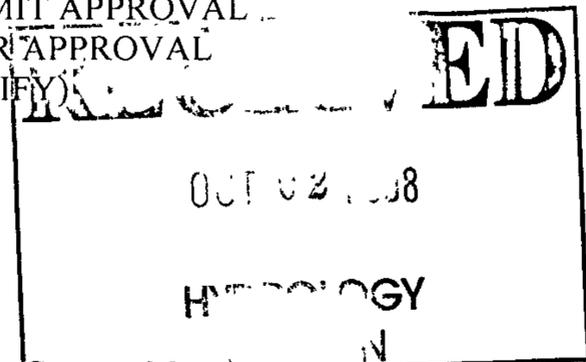
## CHECK TYPE OF APPROVAL SOUGHT:

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**  
 GRADING PERMIT APPROVAL  
 PAVING PERMIT APPROVAL  
 WORK ORDER APPROVAL  
 OTHER (SPECIFY)

WAS A PRE-DESIGN CONFERENCE ATTENDED:

YES  
 NO  
 COPY PROVIDED

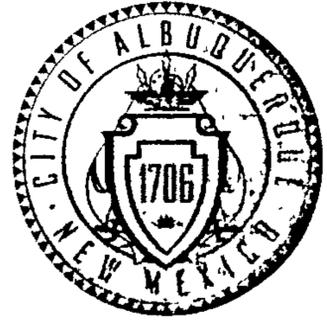
DATE SUBMITTED: 10/02/2008 BY: Graeme-Means



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 defines 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

# CITY OF ALBUQUERQUE



September 19, 2008

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

**Re: Duranes ES Kindergarten Add'n Grading Plan Certification**  
**2436 Zickert Rd NW**  
**Engineer's Stamp dated 9-19-08 (H12/D6)**

Dear Mr. Means,

Based upon the information provided in your submittal dated 9-19-08, the above referenced plan is approved for release of 30-day Temporary Certificate of Occupancy by Hydrology.

PO Box 1293

If you have any questions, you can contact me at 924-3986.

Albuquerque

NM 87103

[www.cabq.gov](http://www.cabq.gov)

Sincerely,

Bradley L. Bingham, PE  
Principal Engineer, Planning Dept.  
Development and Building Services

C: Katrina Sigala,  
file

# HIGH MESA Consulting Group

FORMERLY JEFF MORTENSEN AND ASSOCIATES, INC.

2007.027.2

September 19, 2008

Brad Bingham, PE, City Hydrologist  
Development and Building Services  
City of Albuquerque Planning Department  
600 Second Street N.W.  
Plaza Del Sol – (Second Floor West)  
Albuquerque, NM 87102

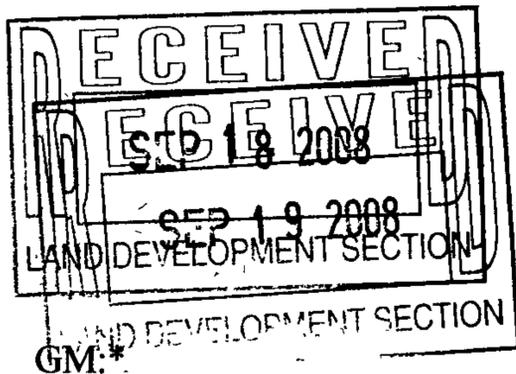
Re: Duranes E.S. Certification of Grading for Temp C.O. – 2436 Zickert NW (H12/D006)

Dear Brad,

I, J. Graeme Means, NMPE 13676, of the firm High Mesa Consulting Group hereby certify that this project appears to have been graded and drained in substantial compliance with and in accordance with the design intent of the approved plan dated 07/06/2007 with two exceptions:

- 1) Grate elevation of new storm inlet is higher than designed and needs to be lowered by 0.25 ft. The grate is still 1 ft below building FF and does not present a hazard, however, does need to be corrected to provide positive drainage away from sidewalks. This needs to be corrected prior to issuance of a permanent CO.
- 2) 4000 SF +/- Area west of building has not yet been paved and drains south instead of north as shown on the plan. Review of the drainage basins on the previous MDP by this office indicates that this basin shift is offset by the new roof drainage going to the north and reasonably matches MDP conditions in terms of area. The south basin (Basin H from the MDP) includes a retention pond that has approx. 1300 cf excess capacity for the 10-year retention volume.

Field work has been completed, but not yet drafted into a formal submittal. The owner would like to occupy the building ASAP, so we request your consideration for a Temp CO based on this information. Once the grate has been lowered, I will submit a standard as-constructed plan and certification, for permanent C.O. This certification is submitted in support of a request for temporary certificate of occupancy. ~~to be submitted to the City of Albuquerque for the permit.~~ Do not hesitate to contact me if you have any questions or comments.



Sincerely,

HIGH MESA CONSULTING GROUP

  
J. Graeme Means, P.E. 13676  
Principal



9/19/08

cc: Myron Johnson, Mark Baker

Principals: Jeffrey G. Mortensen, P.E. • Charles G. Cala, Jr., P.S. • Juan M. Cala  
Joseph M. Solomon, Jr., P.S. • J. Graeme Means, P.E. • Richard C. White • Grady E. Barrens

**DRAINAGE AND TRANSPORTATION INFORMATION SHEET**  
(REV 01/06 – KDM)

PROJECT TITLE: Duranes ES Kindergarten Addition ZONE MAP: H12/D006  
 DRB#: \_\_\_\_\_ EPC#: \_\_\_\_\_ WORK ORDER#: \_\_\_\_\_  
 LEGAL DESCRIPTION: Unplatted  
 CITY ADDRESS: 2436 Zickert Rd NW

ENGINEERING FIRM: High Mesa Consulting Group CONTACT: Graeme Means #13676  
 ADDRESS: 6010-B Midway Park Blvd NE PHONE: 345-4250  
 CITY, STATE: Albuquerque, NM ZIP CODE: 87109

OWNER: APS c/o Dept Facilities Design & Construction CONTACT: Myron Johnson  
 ADDRESS: 915 Oak St SE PHONE: 848-8811  
 CITY, STATE: ABQ, NM ZIP CODE: 87106

ARCHITECT: Baker A+D CONTACT: Mark Baker  
 ADDRESS: 529 Adams NE PHONE: 254-4697  
 CITY, STATE: ABQ, NM ZIP CODE: 87108

SURVEYING FIRM: High Mesa Consulting Group SURVEYOR: Charles G. Cala, Jr  
 ADDRESS: 6010-B Midway park Blve NE PHONE: 345-4250  
 CITY, STATE: Albuquerque, NM ZIP CODE: 87109

CONTRACTOR: FAMCO CONTACT: Architect  
 ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_  
 CITY, STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_

**TYPE OF SUBMITTAL:**

DRAINAGE REPORT  
 DRAINAGE PLAN 1<sup>st</sup> SUBMITTAL  
 DRAINAGE PLAN RESUBMITTAL  
 CONCEPTUAL G & D PLAN  
 GRADING PLAN  
 EROSION CONTROL PLAN  
 ENGINEER'S CERT (HYDROLOGY)  
 CLOMR/LOMR  
 TRAFFIC CIRCULATION LAYOUT  
 ENGINEER'S CERT (TCL)  
 ENGINEER'S CERT (DRB SITE PLAN)  
 OTHER (SPECIFY)

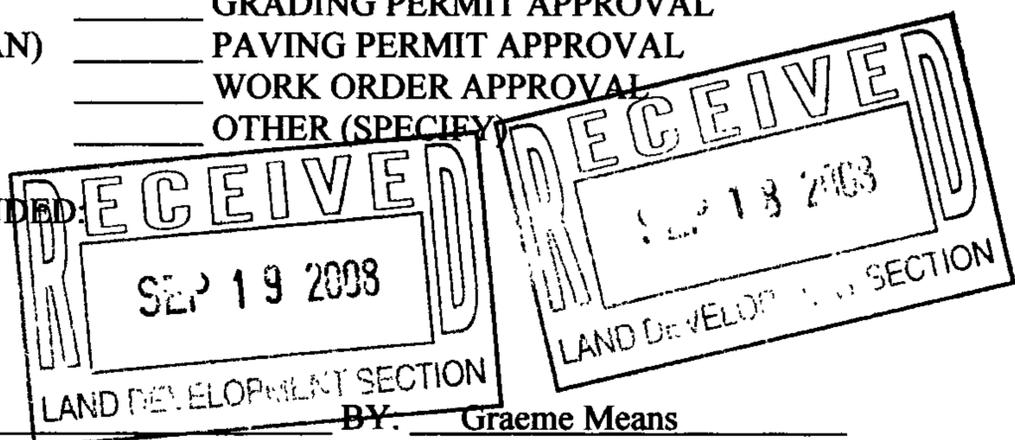
**CHECK TYPE OF APPROVAL SOUGHT:**

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 (TEMP)  
 GRADING PERMIT APPROVAL  
 PAVING PERMIT APPROVAL  
 WORK ORDER APPROVAL  
 OTHER (SPECIFY)

WAS A PRE-DESIGN CONFERENCE ATTENDED:

YES  
 NO  
 COPY PROVIDED

DATE SUBMITTED: 09/19/2008



BY: Graeme Means

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 defines 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.

ONE STOP SHOP  
CITY OF ALBUQUERQUE PLANNING DEPARTMENT  
Development & Building Services

PAID RECEIPT

APPLICANT NAME

AGENT

ADDRESS

PROJECT & APP #

PROJECT NAME

\_\_\_\_\_  
HIGH MESA CONSULTING  
\_\_\_\_\_  
DURANES ELEM.  
\_\_\_\_\_  
H-12/D4  
\_\_\_\_\_

\$ \_\_\_\_\_ 441032/3424000 Conflict Management Fee

\$ \_\_\_\_\_ 441006/4983000 DRB Actions

\$ \_\_\_\_\_ 441006/4971000 EPC/AA/LUCC Actions & All Appeals

\$ \_\_\_\_\_ 441018/4971000 Public Notification

\$ 50.00 441006/4983000 DRAINAGE PLAN REVIEW OR TRAFFIC IMPACT STUDY\*\*\*  
( ) Major/Minor Subdivision ( ) Site Development Plan (  ) Bldg Permit  
( ) Letter of Map Revision ( ) Conditional Letter of Map Revision  
( ) Traffic Impact Study

\$ 50.00 TOTAL AMOUNT DUE

\*\*\*NOTE: If a subsequent submittal is required, bring a copy of this paid receipt with you to avoid an additional charge.

\*\*\*DUPLICATE\*\*\*  
City Of Albuquerque  
Treasury Division

Counterreceipt.doc 6/21/04

7/6/2007 12:11PM LOC: ANNX  
RECEIPT# 00078305 WSH 008 TRNS# 0030  
Account 441006 Fund 0110  
Activity 4983000 TRSDMG  
Trans Amt \$150.00  
J24 Misc \$50.00  
MC \$150.00  
CHANGE \$0.00

Thank You

# CITY OF ALBUQUERQUE



July 18, 2007

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

**Re: Duranes Elementary School Kindergarten Addition  
Grading Plan, Engineer's Stamp dated 7-6-07 (H12/D006)**

Dear Mr. Means,

Based upon the information provided in your submittal dated 7-6-07, 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

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

Albuquerque

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

New Mexico 87103

Sincerely,

A handwritten signature in black ink that reads 'Curtis A. Cherne'.

Curtis A. Cherne, P.E.

Engineering Associate, Planning Dept.  
Development and Building Services

[www.cabq.gov](http://www.cabq.gov)

C: file

**DRAINAGE AND TRANSPORTATION INFORMATION SHEET**  
(REV 01/06 – KDM)

PROJECT TITLE: Duranes Elementary School Kindergarten Addition ZONE MAP: H12/D6  
 DRB#: \_\_\_\_\_ EPC#: \_\_\_\_\_ WORK ORDER#: \_\_\_\_\_  
 LEGAL DESCRIPTION: An Unplatted Portion of Duranes Elementary School  
 CITY ADDRESS: 2436 Zickert Rd NW

ENGINEERING FIRM: High Mesa Consulting Group CONTACT: Graeme Means #13676  
 ADDRESS: 6010-B Midway Park Blvd NE PHONE: 345-4250  
 CITY, STATE: Albuquerque, NM ZIP CODE: 87109

OWNER: APS c/o Dept Facilities Design & Construction CONTACT: Myron Johnson  
 ADDRESS: 915 Oak Street SE PHONE: 848-8811  
 CITY, STATE: Albuquerque, NM ZIP CODE: 87106

ARCHITECT: Baker A+D CONTACT: Mark Baker  
 ADDRESS: 3110 Silver Ave SE PHONE: 254-4697  
 CITY, STATE: Albuquerque, NM ZIP CODE: 87106

SURVEYING FIRM: High Mesa Consulting Group LICENSED SURVEYOR: Joe Solomon, #15075  
 ADDRESS: 6010-B Midway park Blve NE PHONE: 345-4250  
 CITY, STATE: Albuquerque, NM ZIP CODE: 87109

CONTRACTOR: \_\_\_\_\_ CONTACT: Owner  
 ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_  
 CITY, STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_

**TYPE OF SUBMITTAL:**

\_\_\_\_\_ DRAINAGE REPORT  
 DRAINAGE PLAN 1<sup>st</sup> SUBMITTAL  
 \_\_\_\_\_ DRAINAGE PLAN RESUBMITTAL  
 \_\_\_\_\_ CONCEPTUAL G & D PLAN  
 GRADING PLAN  
 \_\_\_\_\_ EROSION CONTROL PLAN  
 \_\_\_\_\_ ENGINEER'S CERT (HYDROLOGY)  
 \_\_\_\_\_ CLOMR/LOMR  
 \_\_\_\_\_ TRAFFIC CIRCULATION LAYOUT  
 \_\_\_\_\_ ENGINEER'S CERT (TCL)  
 \_\_\_\_\_ ENGINEER'S CERT (DRB SITE PLAN)  
 \_\_\_\_\_ OTHER (SPECIFY)

**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  
 \_\_\_\_\_ GRADING PERMIT APPROVAL  
 \_\_\_\_\_ PAVING PERMIT APPROVAL  
 \_\_\_\_\_ WORK ORDER APPROVAL  
 \_\_\_\_\_ OTHER (SPECIFY)

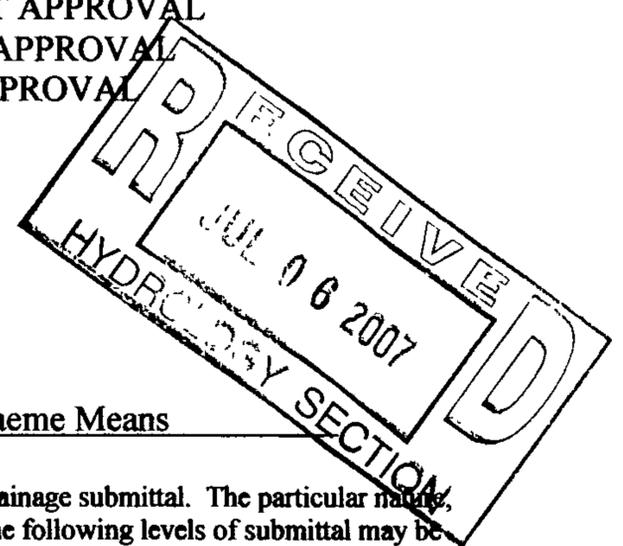
WAS A PRE-DESIGN CONFERENCE ATTENDED:

\_\_\_\_\_ YES  
 NO  
 \_\_\_\_\_ COPY PROVIDED

DATE SUBMITTED: 07/06/2007 BY: Graeme Means

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 defines 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.



# CITY OF ALBUQUERQUE



March 26, 2007

Mr. Jeffery Mortensen, P.E.  
Jeff Mortensen & Associates  
6010-B Midway Park Blvd. NE  
Albuquerque, NM 87109

**Re: Duranes Elementary School, 2436 Zickert Rd. NW, Master Drainage  
Plan Update, Field and Courtyard Drainage Plan, Engineer's Stamp  
dated 06/15/2006 (H-12/D006)**

Dear Mr. Mortensen,

Thank you for providing an Engineer Certification for the Master Plan/Grading  
Permits of the above referenced plan. It will be placed in the project file

P.O. Box 1293

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

Albuquerque

Sincerely,

New Mexico 87103

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

www.cabq.gov

C: file(H-12/D006)

# DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: DURANES ELEMENTARY SCHOOL ZONE ATLAS/DRNG. FILE #: H12/D6  
 DRB #: \_\_\_\_\_ EPC #: \_\_\_\_\_ WORK ORDER #: \_\_\_\_\_

LEGAL DESCRIPTION: UNPLATTED MRGCD TRACTS  
 CITY ADDRESS: 2436 ZICKERT ROAD NW

ENGINEERING FIRM: JEFF MORTENSEN & ASSOC., INC. CONTACT: JEFF MORTENSEN  
 ADDRESS: 6010-B MIDWAY PARK BLVD. NE PHONE: (505) 345-4250  
 CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87109

OWNER: ALBUQUERQUE PUBLIC SCHOOLS (DFDC) CONTACT: MYRON JOHNSON  
 ADDRESS: 915 OAK STREET SE PHONE: 848-8811  
 CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87106

ARCHITECT: N/A CONTACT: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_  
 CITY, STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_

SURVEYOR: JEFF MORTENSEN & ASSOC., INC. (NMPS 11184) CONTACT: CHUCK CALA  
 ADDRESS: 6010-B MIDWAY PARK BLVD. NE PHONE: (505) 345-4250  
 CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87109

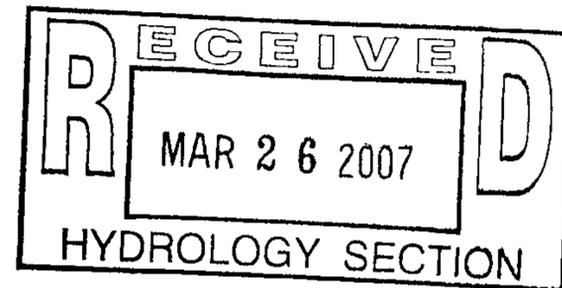
CONTRACTOR: WESTWIND LANDSCAPE CONSTRUCTION, INC CONTACT: ELIZABETH CALHOON  
 ADDRESS: 2739 VASSAR PLACE NE PHONE: 898-8925 X-114  
 CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87107

- TYPE OF SUBMITTAL:**
- DRAINAGE REPORT
  - DRAINAGE PLAN 1<sup>st</sup> SUBMITTAL, **REQUIRES TCL or equal**
  - DRAINAGE PLAN RESUBMITTAL
  - CONCEPTUAL GRADING & DRAINAGE PLAN
  - GRADING PLAN
  - EROSION CONTROL PLAN
  - ENGINEER'S CERTIFICATION (HYDROLOGY)
  - CLOMR/LOMR
  - TRAFFIC CIRCULATION LAYOUT (TCL)
  - ENGINEER'S CERTIFICATION (TCL)
  - ENGINEER'S CERTIFICATION (DRB APPR. SITE PLAN)
  - OTHER -

- CHECK TYPE OF APPROVAL SOUGHT:**
- SIA/FINANCIAL GUARANTEE RELEASE
  - PRELIMINARY PLAT APPROVAL
  - S. DEV. PLAN FOR SUB'D APPROVAL
  - S. DEV. PLAN 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 (SPECIFY) - CONDITION OF APPROVAL

**WAS A PRE-DESIGN CONFERENCE ATTENDED:**

- YES
- NO
- COPY PROVIDED



DATE SUBMITTED: 03/26/2007 BY: JEFFREY G. MORTENSEN

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based upon 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 subdivisions containing more than ten (10) lots or constituting five (5) acres or more.

# CITY OF ALBUQUERQUE



July 12, 2006

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

Re: Duranes Elementary School  
Request for Grading Permit Approval and MDP Update  
Engineer's Stamp dated 6-15-06

(H12/D6)

Dear Mr. Mortensen,

Based upon the information contained in your submittal dated June 22, 2006, the referenced plan is approved for both Grading Permit as well as the update to the Master Drainage Plan.

Please submit a copy of the completed grading plan for Hydrology signature approval. Upon completion of the project, please submit an Engineer's Certification for our records. If you have any questions, you can contact the undersigned at 924-3990.

P.O. Box 1293

Sincerely,

Albuquerque

A handwritten signature in black ink, appearing to read "Jeremy Hoover", written over a horizontal line.

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

New Mexico 87103

cc: file H12/D6

[www.cabq.gov](http://www.cabq.gov)

# DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: DURANES ELEMENTARY SCHOOL ZONE ATLAS/DRNG. FILE #: H12 D6  
 DRB #: \_\_\_\_\_ EPC #: \_\_\_\_\_ WORK ORDER #: \_\_\_\_\_

LEGAL DESCRIPTION: UNPLATTED MRGCD TRACTS  
 CITY ADDRESS: 2436 ZICKERT ROAD NW

ENGINEERING FIRM: JEFF MORTENSEN & ASSOC., INC. CONTACT: JEFF MORTENSEN  
 ADDRESS: 6010-B MIDWAY PARK BLVD. NE PHONE: (505) 345-4250  
 CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87109

OWNER: ALBUQUERQUE PUBLIC SCHOOLS (DFDC) CONTACT: MYRON JOHNSON  
 ADDRESS: 915 OAK STREET SE PHONE: 848-8811  
 CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87106

ARCHITECT: N/A CONTACT: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_  
 CITY, STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_

SURVEYOR: JEFF MORTENSEN & ASSOC., INC. (NMPS 11184) CONTACT: CHUCK CALA  
 ADDRESS: 6010-B MIDWAY PARK BLVD. NE PHONE: (505) 345-4250  
 CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87109

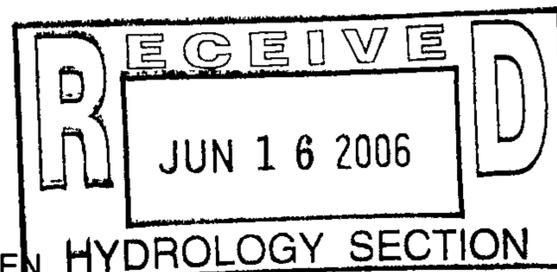
CONTRACTOR: WESTWIND LANDSCAPE CONSTRUCTION, INC CONTACT: ELIZABETH CALHOON  
 ADDRESS: 2739 VASSAR PLACE NE PHONE: 898-8925 X-114  
 CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87107

- TYPE OF SUBMITTAL:**
- DRAINAGE REPORT
  - DRAINAGE PLAN 1<sup>st</sup> SUBMITTAL, *REQUIRES TCL or equal*
  - DRAINAGE PLAN RESUBMITTAL
  - CONCEPTUAL GRADING & DRAINAGE PLAN
  - GRADING PLAN
  - EROSION CONTROL PLAN
  - ENGINEER'S CERTIFICATION (HYDROLOGY)
  - CLOMR/LOMR
  - TRAFFIC CIRCULATION LAYOUT (TCL)
  - ENGINEER'S CERTIFICATION (TCL)
  - ENGINEER'S CERTIFICATION (DRB APPR. SITE PLAN)
  - OTHER - MDP UPDATE

- CHECK TYPE OF APPROVAL SOUGHT:**
- SIA/FINANCIAL GUARANTEE RELEASE
  - PRELIMINARY PLAT APPROVAL
  - S. DEV. PLAN FOR SUB'D APPROVAL
  - S. DEV. PLAN 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 (SPECIFY) - MDP UPDATE

**WAS A PRE-DESIGN CONFERENCE ATTENDED:**  
 YES  
 NO  
 COPY PROVIDED

DATE SUBMITTED: 06-16-2006 BY: JEFFREY G. MORTENSEN  
*D.T.*



Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based upon 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 subdivisions containing more than ten (10) lots or constituting five (5) acres or more.



# ***City of Albuquerque***

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

**January 16, 1996**

**Joe Kelley, PE  
CHAVEZ-GRIEVES  
5639 Jefferson NE  
Albuquerque, NM 87109**

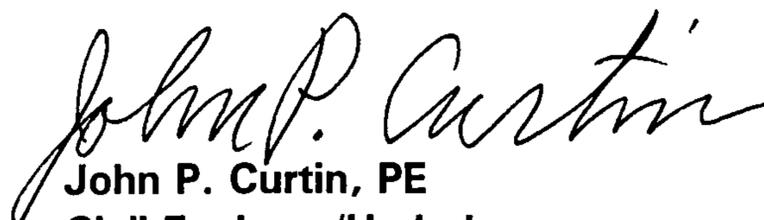
**RE: ENGINEER'S CERTIFICATION FOR DURANES ELEM SCHOOL (H-12/D6)  
RECEIVED JANUARY 8, 1996 FOR CERTIFICATE OF OCCUPANCY  
ENGINEER'S STAMP DATED 1/4/96**

**Dear Mr. Kelley:**

**Based on the information included in the submittal referenced above, City Hydrology accepts the Engineer's Certification for a permanent certificate of Occupancy. Contact Vicki Chavez at Code Administration to obtain the Certificate of Occupancy for 2436 Zichert Rd NW.**

**If I can be of further assistance, You may contact me at 768-2727.**

**Sincerely,**

  
**John P. Curtin, PE  
Civil Engineer/Hydrology**

**c: Andrew Garcia**

DRAINAGE INFORMATION

PROJECT TITLE: Duranes Elementary ZONE ATLAS/DRNG. FILE #: H12/D6

DRB#: \_\_\_\_\_ EPC #: \_\_\_\_\_ WORK ORDER #: \_\_\_\_\_

DESCRIPTION: portion of Duranes Elemntary

CITY ADDRESS: 2436 Zichert Rd. NW

ENGINEERING FIRM: Chavez-Grieves

CONTACT: Joe Kelley

ADDRESS: 5639 Jefferson NE

PHONE: 344-4080

OWNER: Albuquerque Public Schools

CONTACT: \_\_\_\_\_

ADDRESS: P.O. Box 25704

PHONE: 242-5865

ARCHITECT: SMPC

CONTACT: Greg Gerwin

ADDRESS: 115 Amherst SE

PHONE: 255-8668

SURVEYOR: Jeff Mortensen & Associates

CONTACT: Chuck Cala

ADDRESS: 6010B Midway Park Blvd

PHONE: 345-4250

CONTRACTOR: not selected

CONTACT: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

PHONE: \_\_\_\_\_

TYPE OF SUBMITTAL:

- DRAINAGE REPORT
- DRAINAGE PLAN
- CONCEPTUAL GRADING & DRAINAGE PLAN
- GRADING PLAN
- EROSION CONTROL PLAN
- ENGINEER'S CERTIFICATION
- OTHER

CHECK TYPE OF APPROVAL SOUGHT:

- SKETCH PLAT APPROVAL
- PRELIMINARY PLAT APPROVAL
- S. DEV. PLAN FOR SUB'D. APPROVAL
- S. DEV. PLAN FOR BLDG. PRMT. APPROVAL
- SECTOR PLAN APPROVAL
- FINAL PLAT APPROVAL
- FOUNDATION PERMIT APPROVAL
- BUILDING PERMIT APPROVAL
- CERTIFICATE OF OCCUPANCY APPROVAL
- GRADING PERMIT APPROVAL
- PAVING PERMIT APPROVAL
- S.A.D. DRAINAGE REPORT
- DRAINAGE REQUIREMENTS
- OTHER \_\_\_\_\_ (SPECIFY)

PRE-DESIGN MEETING:

- YES
- NO
- COPY PROVIDED

DATE SUBMITTED: January 4, 1996

BY: Joe Kelley, P.E.

*called Vicki for permanent C.O. on 1-16-96*

*JFK*

**JAN - 8 1996**

•••  
•••  
•••  
•••

**PUBLIC WORKS DEPARTMENT**  
**SIDEWALK & DRIVEPAD INSPECTION**

**APPROVED** → over

*Victor Zamora*  
Inspector

Phone	Permits 768-2551	Dispatch 857-8025	Insp. Office 857-8036
-------	---------------------	----------------------	--------------------------

Date 1-2-96 Permit No. 973579

Contractor T.A. Cole & Sons

Location 2436 Zickert NW

Time 2:00 PM

S019 Drain only east side of  
property ok by Dick Salas



# ***City of Albuquerque***

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

**December 20, 1995**

**Joe Kelley, PE  
CHAVEZ-GRIEVES  
5639 Jefferson NE  
Albuquerque, NM 87109**

**RE: ENGINEER'S CERTIFICATION FOR DURANES ELEM SCHOOL (H-12/D6)  
RECEIVED DECEMBER 12, 1995 FOR CERTIFICATE OF OCCUPANCY  
ENGINEER'S STAMP DATED 12-11-95**

**Dear Mr. Kelley:**

**Based on the information included in the submittal referenced above, City Hydrology accepts the Engineer's Certification for a temporary certificate of Occupancy. The following comments must be addressed before the Engineer's Certification will be accepted for a permanent Certificate of Occupancy:**

**Provide an as-built elevation for the FF of the New Building. The as-built TOG elevation for inlet 10 is missing. Provide as-built inverts for the private storm drain. Submit a copy of the "green tag" for the S.O.19 (sidewalk culvert).**

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

**Sincerely,**

**John P. Curtin, PE  
Civil Engineer/Hydrology**

**c: Andrew Garcia**

AINAGE INFORMATION

PROJECT TITLE: Duranes Elementary ZONE ATLAS/DRNG. FILE #: H12/D6  
B#: \_\_\_\_\_ EPC #: \_\_\_\_\_ WORK ORDER #: \_\_\_\_\_

DESCRIPTION: portion of Duranes Elementary

PROPERTY ADDRESS: 2436 Zichert Rd. NW

ENGINEERING FIRM: Chavez-Grieves CONTACT: Joe Kelley

ADDRESS: 5639 Jefferson NE PHONE: 344-4080

OWNER: Albuquerque Public Schools CONTACT: \_\_\_\_\_

ADDRESS: P.O. Box 25704 PHONE: 242-5865

ARCHITECT: SMPC CONTACT: Greg Gerwin

ADDRESS: 115 Amherst SE PHONE: 255-8668

SURVEYOR: Jeff Mortensen & Associates CONTACT: Chuck Cala

ADDRESS: 6010B Midway Park Blvd PHONE: 345-4250

CONTRACTOR: not selected CONTACT: \_\_\_\_\_

ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_

TYPE OF SUBMITTAL:

- DRAINAGE REPORT
- DRAINAGE PLAN
- CONCEPTUAL GRADING & DRAINAGE PLAN
- GRADING PLAN
- EROSION CONTROL PLAN
- ENGINEER'S CERTIFICATION
- OTHER Bernie Approved

RE-DESIGN MEETING: Temp on 12-12-95

- YES
- NO
- COPY PROVIDED

CHECK TYPE OF APPROVAL SOUGHT:

- SKETCH PLAT APPROVAL
- PRELIMINARY PLAT APPROVAL
- S. DEV. PLAN FOR SUB'D. APPROVAL
- S. DEV. PLAN FOR BLDG. PRMT. APPROVAL
- SECTOR PLAN APPROVAL
- FINAL PLAT APPROVAL
- FOUNDATION PERMIT APPROVAL
- BUILDING PERMIT APPROVAL
- CERTIFICATE OF OCCUPANCY APPROVAL
- GRADING PERMIT APPROVAL
- PAVING PERMIT APPROVAL
- S.A.D. DRAINAGE REPORT
- DRAINAGE REQUIREMENTS
- OTHER \_\_\_\_\_ (SPECIFY)

DATE SUBMITTED: December 11, 1995

BY: Joe Kelley, P.E.

DEC 1 2



PRIVATE FACILITY  
DRAINAGE COVENANT

This Drainage Covenant, between [state the name of the present real property owner exactly as shown on the real estate document conveying title to the present owner and state the legal status of the owner, for example, "single person," "husband and wife," "corporation of the State of \_\_\_\_\_," "partnership":] The Board of Education of the City of Albuquerque,  
New Mexico

whose address is 725 University Blvd., S.E. 87106 ("Owner"), the City of Albuquerque, a New Mexico municipal corporation ("City"), whose address is P. O. Box 1293, Albuquerque, New Mexico 87103, is made in Albuquerque, Bernalillo County, New Mexico and is entered into as of the date Owner signs this Covenant.

1. Recital. The Owner is the owner of the following described real property located at [give legal description, and street address:] Duranes Elementary School, 2436 Zickert Road NW  
(Specifically Lot "B" of the Lands of Robert Wolfe)

in Bernalillo County, New Mexico (the "Property").

Pursuant to City ordinances, regulations and other applicable laws, the Owner is required to construct and maintain certain drainage facilities on the Property, and the parties wish to enter into this Covenant to establish the obligations and responsibilities of the parties.

2. Description and Construction of Drainage Facility. The Owner shall construct the following "Drainage Facility" within the Property at the Owner's sole expense in accordance with the standards, plans and specifications approved by the City:

Storm Water Retention Pond

The Drainage Facility is more particularly described in Exhibit A attached hereto and made a part hereof.

3. Maintenance of Drainage Facility. The Owner shall maintain the Drainage Facility at the Owner's sole cost in accordance with the approved Drainage Report and plans.

4. Benefit to Property. The Owner acknowledges and understands that the Drainage Facility required herein to be constructed on the Owner's property is for the private benefit

and protection of the Owner's property and that failure to maintain such facility could result in damage or loss to the Property.

5. Inspection of Drainage Facility. The City shall have no duty or obligation whatsoever to perform any inspection, maintenance or repair of the Drainage Facility, it being the duty of the Owner, its heirs, successors and assigns to construct and maintain the facility in accordance with approved plans and specifications.

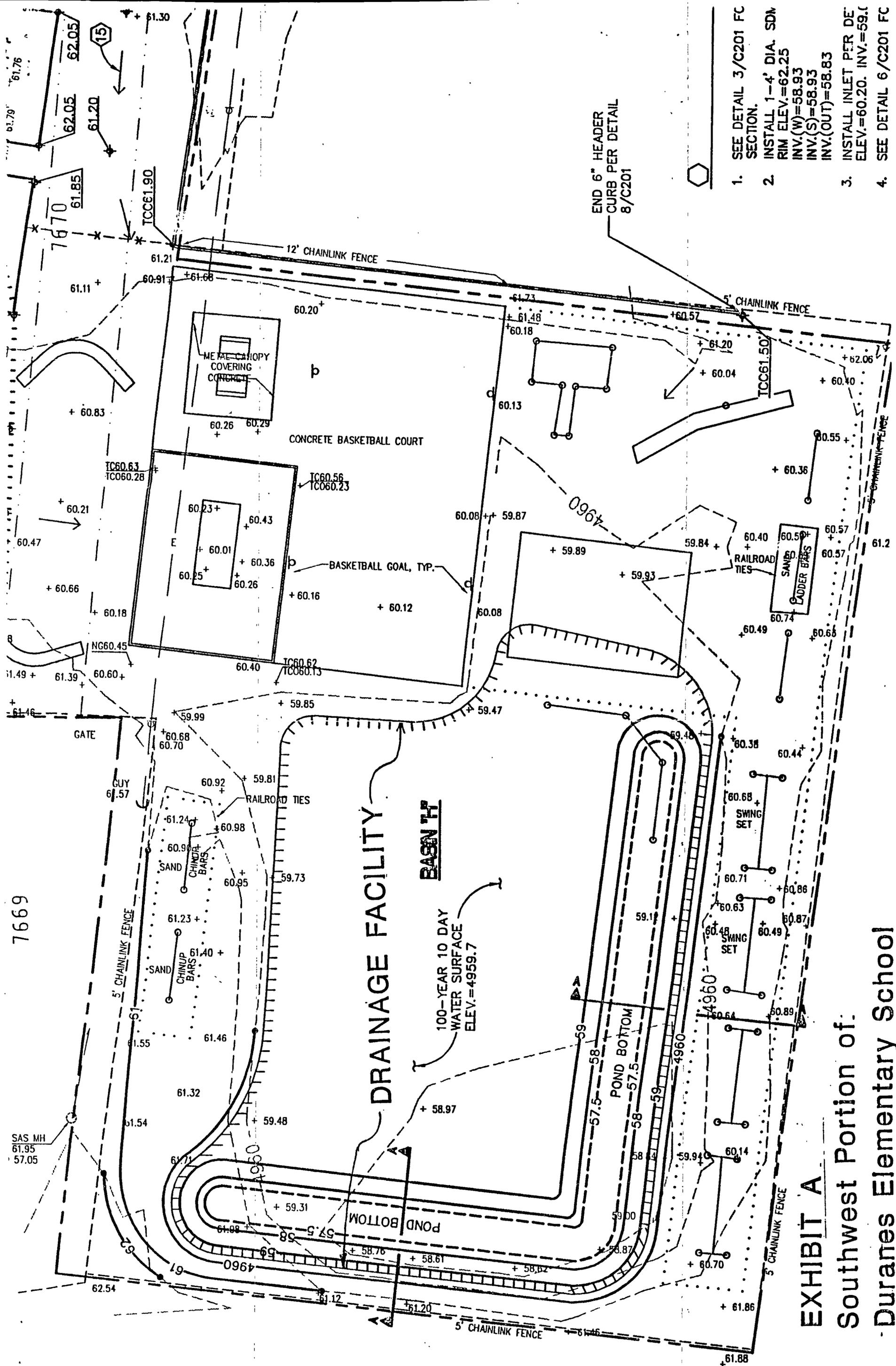
6. Liability of City. The Owner understands and agrees that the City shall not be liable to the Owner, its heirs, successors or assigns, or to any third parties for any damages resulting from the Owner's failure to construct, maintain or repair the Drainage Facility.

7. Indemnification. The Owner owns and controls the Drainage Facility and shall not permit the Drainage Facility to constitute a hazard to the health or safety of the general public. The Owner agrees to indemnify, defend and hold harmless the City, its officials, agents and employees, from any claims, actions, suits or other proceedings arising from or out of the negligent acts or omissions of the Owner, its agents, representatives, contractors or subcontractors or arising from the failure of the Owner, its agents, representatives, contractors or subcontractors to perform any act or duty required of the Owner herein; provided, however, to the extent, if at all, Section 56-7-1 NMSA 1978 is applicable to this Agreement, this Agreement to indemnify will not extend to liability, claims, damages, losses or expenses, including attorney's fees, arising out of (1) the preparation or approval of maps, drawings, opinions, reports, surveys, change orders, designs or specifications by the respective indemnitee, or the agents or employees of the respective indemnitee; or (2) the giving of or the failure to give direction or instructions by the respective indemnitee, where such giving or failure to give directions or instructions is the primary cause of bodily injury to persons or damage to property.

8. Assessment. Nothing in this Covenant shall be construed to relieve the Owner, its heirs, assigns and successors from an assessment against the Owner's Property for improvements to the Property under a duly authorized and approved Special Assessment District. The parties specifically agree that the value of the Drainage Facility will not reduce the amount assessed by the City.

9. Binding on Owner's Property. The covenants and obligations of the Owner set forth herein shall be binding on the Owner, its heirs, assigns and successors and on the Owner's Property and constitute covenants running with the Owner's





1. SEE DETAIL 3/C201 FC SECTION.
2. INSTALL 1-4' DIA. SDM RIM ELEV.=62.25 INV.(W)=58.93 INV.(S)=58.93 INV.(OUT)=58.83
3. INSTALL INLET PER DETAIL 6/C201 FC ELEV.=60.20. INV.=59.0
4. SEE DETAIL 6/C201 FC

END 6" HEADER CURB PER DETAIL 8/C201

**EXHIBIT A**  
 Southwest Portion of:  
 Duranes Elementary School

7669

**DRAINAGE FACILITY**

**BASIN**

100-YEAR 10 DAY WATER SURFACE ELEV.=4959.7

POND BOTTOM

POND BOTTOM

GATE

CONCRETE BASKETBALL COURT

BASKETBALL GOAL, TYP.

RAILROAD TIES

SAND TRAP LADDER BARS

SWING SET

SWING SET

SAS MH 61.95 57.05

GUY 61.57

SAND CHINUP BARS

SAND CHINUP BARS

RAILROAD TIES

CONTRACT CONTROL FORM

PRELIMINARY REVIEW

Project # H12002

Contact Person Shuna

Phone No. 768-2505

PA1215

CLN # \_\_\_\_\_

New or Ext.#

Type of Agreement: Drainage Covenant

Description/Project: Quares Elem School Storm Water Ret Pond

Public Works/Div: Engg, Design

Developer: A.P.S. Board of Education

Contract Amount \$ 0-

SIA Contract Period: \_\_\_\_\_

Contract Amount \$ 0-

SW'S Contract Period: \_\_\_\_\_

Project Completed Date \_\_\_\_\_

DRAFT CONTRACT:

Recd by Legal: 3/23/95 Rejected/Returned to Dept: \_\_\_\_\_

Returned to Legal: \_\_\_\_\_ Approved: \_\_\_\_\_ Initials: \_\_\_\_\_

FINANCIAL GUARANTY:

Letter of Credit No. \_\_\_\_\_ Date \_\_\_\_\_ Attached: Yes \_\_\_ No \_\_\_ Initial \_\_\_

Other: Type \_\_\_\_\_ No. \_\_\_\_\_ Attached: Yes \_\_\_ No \_\_\_ Initial \_\_\_

FINAL CONTRACT REVIEW

APPROVALS REQUIRED:

	Date Delivered	Returned to Dept	Approved by	Approval Date
Purchasing:	<u>1</u>	<u>1</u>		
Asst. City Attorney:	<u>1</u>	<u>1</u>	<u>[Signature]</u>	<u>3/24/95</u>
CIP:	<u>1</u>	<u>1</u>		
Cit. Attorney:	<u>1</u>	<u>1</u>		
CAO:	<u>1</u>	<u>1</u>		
Other: <u>Hydrology</u>	<u>1</u>	<u>1</u>		
Council:	<u>1</u>	<u>1</u>	<u>[Signature]</u>	<u>3-27-95</u>

EC No: \_\_\_\_\_ Approved: \_\_\_\_\_ Date: \_\_\_\_\_

DISTRIBUTION:

	Date:	By:
User Department	_____	_____
Vendor	_____	_____
City Clerk	_____	_____
Treasury	_____	_____

Stephanie:

If you don't see anything wrong, I'll sign this for the City Engineer.

Thank You.

John P. Austin

Theresa: This Covenant is for a Bldg Permit on Zone Atlas H-12. Please get a City Contract # & a cover sheet. Once legal has reviewed

I can sign it for the City Engineer.

H12002 Thank You.

John P. Austin

LEGAL DEPARTMENT



PA 1215

CITY OF ALBUQUERQUE  
NEW MEXICO

Date: 3/21/95  
To: John Curtin  
From: Stephanie  
About: Duranes Elem. School

- Review and Comment
- For Your Information
- Note and See Me
- Necessary Action

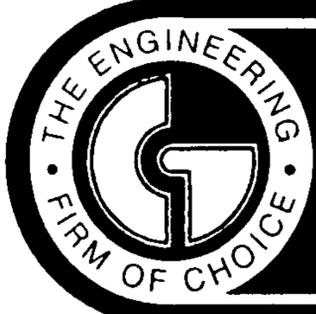
- Note and Return
- Per conversation
- As requested
- Read and File

Please fill in the legal  
description at the green

tab.

3/23/95 Lot "B" of the  
lands of Robert  
Wolfe.

John, after you  
sign, call owner  
& have them  
get this recorded  
at County. Then  
we need to keep  
the original plus  
a copy. The owner  
gets a copy- TBL



# CHAVEZ · GRIEVES CONSULTING ENGINEERS, INC.

5639 JEFFERSON STREET NE · ALBUQUERQUE, NEW MEXICO 87109 · PHONE (505) 344-4080 · FAX (505) 343-8759

## LETTER OF TRANSMITTAL

TO: MR. JOHN CURTIN DATE: 3/13/95  
CITY HYDROLOGY JOB # SOS-179-5199  
Room 301, City-County Bldg RE: DURANES ELEMENTARY

WE ARE SENDING YOU  ATTACHED  UNDER SEPARATE COVER, THE FOLLOWING ITEMS:

- |   |                                  |   |   |
|---|----------------------------------|---|---|
| <input type="checkbox"/> SHOP DRAWINGS  | <input type="checkbox"/> PLANS   | <input type="checkbox"/> SPECIFICATIONS | <input type="checkbox"/> DISKETTE             |
| <input type="checkbox"/> CHANGE ORDER   | <input type="checkbox"/> PRINTS  | <input type="checkbox"/> CALCULATIONS   | <input checked="" type="checkbox"/> EXHIBIT A |
| <input type="checkbox"/> COPY OF LETTER | <input type="checkbox"/> SAMPLES | <input type="checkbox"/> REPORT         |   |

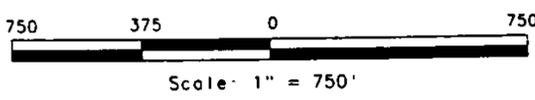
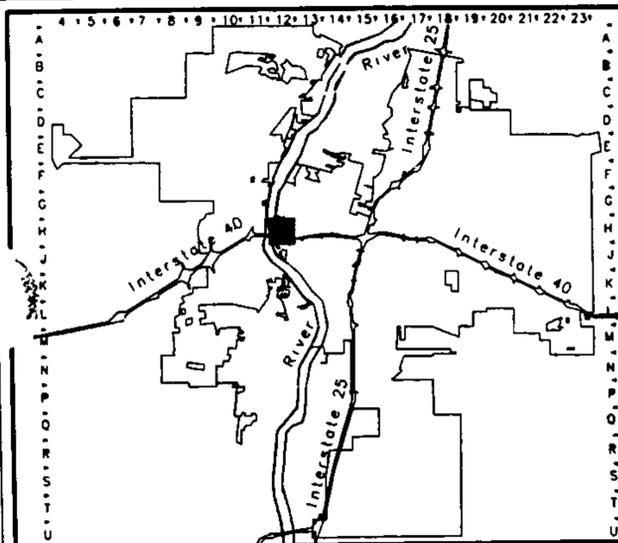
COPIES	DATE	NO.	DESCRIPTION

### THESE ARE TRANSMITTED AS CHECKED BELOW:

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> FOR YOUR USE     | <input type="checkbox"/> FOR REVIEW & COMMENT                                    |
| <input checked="" type="checkbox"/> AS REQUESTED     | <input type="checkbox"/> RETURNED AFTER LOAN TO US                               |
| <input type="checkbox"/> PLEASE CORRECT AND RESUBMIT | <input type="checkbox"/> SUBMIT <input type="checkbox"/> COPIES FOR DISTRIBUTION |
| <input type="checkbox"/> RESUBMITTAL IS NOT REQUIRED | <input type="checkbox"/> RETURN <input type="checkbox"/> CORRECTED PRINTS        |
| CORRECTIONS, IF ANY, ARE NOTED                       |  |

REMARKS: JOHN, HERE IS EXHIBIT A TO ACCOMPANY THE PRIVATE FACILITY  
DRAINAGE COVENANT. I CHECKED THE SURVEY, AND THIS IS A PORTION OF  
THE DURANES ELEMENTARY TRACT.  
PLEASE CALL IF YOU HAVE ANY QUESTIONS

COPIES TO: MR. GREG GERWIN MAR 13 SIGNED: JOE KEENEY  
SMPC ARCHITECTS



LEGAL DESCRIPTION  
 T10N  
 R2E  
 SEC 12

UNIFORM PROPERTY CODE  
 1-012-059

**A G I S**  
 Albuquerque Geographic Information System  
 City of Albuquerque

© Planning Department July 03, 1993

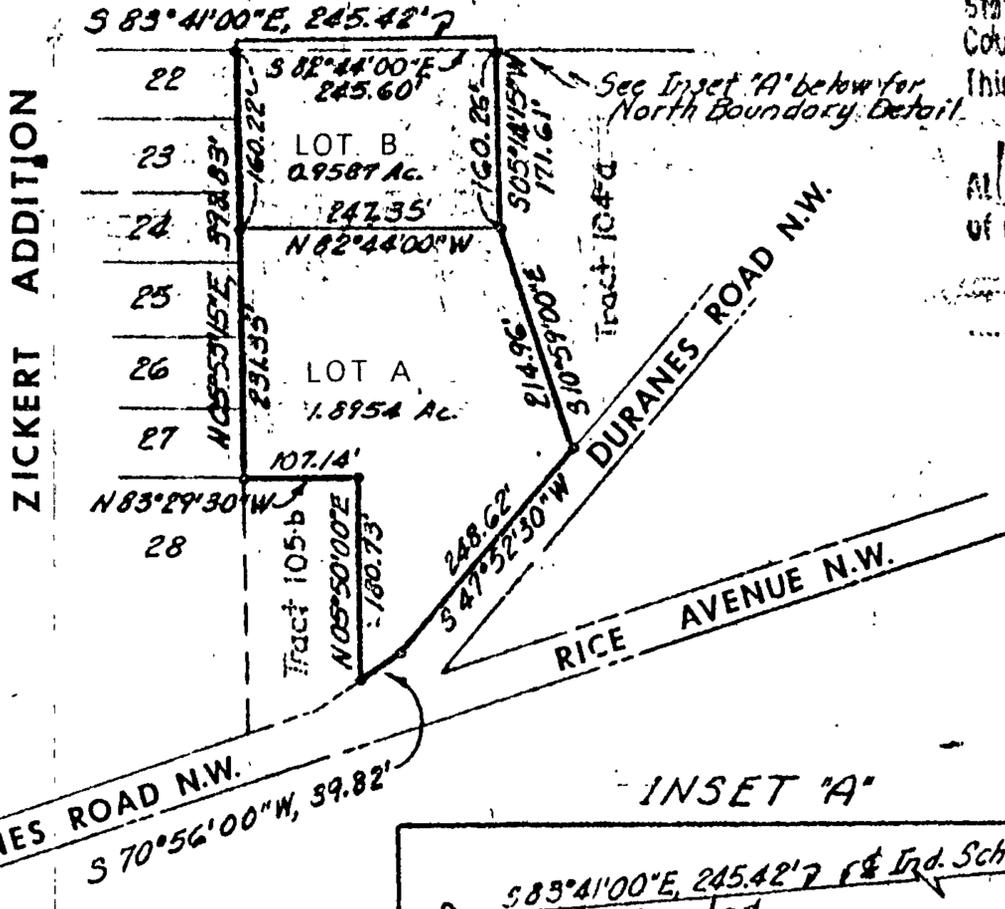
**H-12-Z**

LAND DIVISION NO. 72-265  
 APPROVED 6-15-72  
 CITY OF ALBUQUERQUE  
 FOR: COUNTY BERNALILLO CITY X  
Richard H. Burmeister  
Vern Hansen

LOTS "A" & "B" OF THE  
 LANDS OF ROBERT WOLFE  
 (Comprising Tract 105 a, M.R.G.C.D. Map No. 35,  
 Albuquerque, New Mexico  
 June 12, 1972 92348

13-193  
 13-193  
 13-193

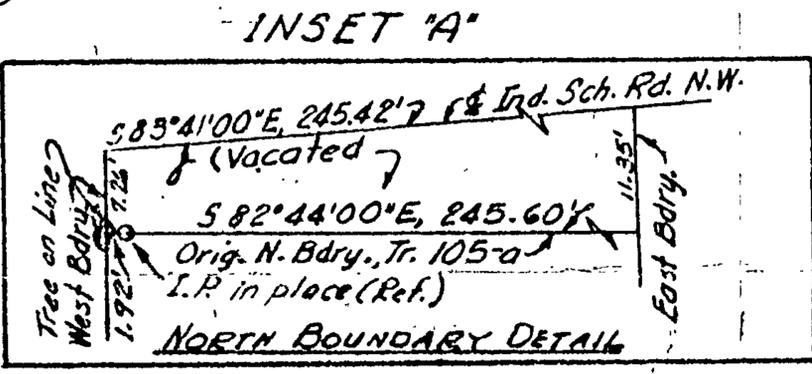
INDIAN SCHOOL ROAD N.W. (VACATED)



State of New Mexico }  
 County of Bernalillo } SS  
 This instrument was filed for record on  
 JUN 15 1972  
 at 10:47 o'clock A.M. Recorded in Vol. 13-193  
 of records of said County Folio \_\_\_\_\_  
 Clerk & Recorder  
 Deputy Clerk

Scale: 1" = 200'

13-193



o Denotes 1/2" Rebars set on Property Corners

A certain tract of land situate within the City Limits of the City of Albuquerque, New Mexico, and being identified as Tract 105 a, M.R.G.C.D. Map No. 35, TOGETHER with the South One Half (S 1/2) of vacated Indian School Road NW lying immediately North of and adjacent to said Tract 105 a, and more particularly described as follows:  
 Beginning at the Southwest corner of the tract herein described, said Southwest corner being common to said Southwest corner of Tract 105 a with the Southeast corner of Tract 105 b and a point on the Northerly line of Duranes Road NW, whence the East Quarter Corner (E 1/4) of Section 12, T 10 N, R 2 E, NMPM, as shown on Bernalillo County Survey Sheet No. 25 bears N 80° 24' E, 484.4 feet distance (Tie is for identification purposes only and not for retracement; thence, N 05° 50' 00" E, 180.73 feet distance to a point; thence, N 83° 29' 30" W, 107.14 feet distance to a point, said point being on the Easterly boundary of Zickert Addition, as the same is shown and designated on the Plat of said Addition, filed in the office of the County Clerk of Bernalillo County, New Mexico, on April 21, 1948; thence, N 05° 53' 15" E, 398.83 feet distance to the Northwest corner of the tract herein described, said Northwest corner being a point on the centerline of aforementioned vacated Indian School Road NW; thence, S 83° 41' 00" E, 245.42 feet distance along said center line of vacated Indian School Road NW to the Northeast corner of the tract herein described; thence, S 05° 14' 15" W, 171.61 feet distance to a point; thence, S 10° 59' 00" E, 214.96 feet distance to the Southeast corner of the tract herein described, said Southeast corner being a point on the Northerly line of Duranes Road NW; thence, S 47° 52' 30" W, 248.62 feet distance along said Northerly line of Duranes Road NW to a point; thence, S 70° 56' 00" W, 39.82 feet distance continuing along said Northerly line of Duranes Road NW to the Southwest corner of the tract herein described and place of beginning and containing 2.8541 acres, more or less.

Surveyed and subdivided as the same appears hereon and comprising Lots "A" & "B" of the LANDS OF ROBERT WOLFE, is with the free consent of and in accordance with the wishes and desires of the undesignated owner(s) and proprietor(s) thereof.

STATE OF NEW MEXICO )  
 COUNTY OF BERNALILLO ) SS  
 The foregoing instrument was  
 acknowledged before me this 12th  
 day of June, 1972.  
Raymond Babcock  
 Notary Public  
 My Commission  
 expires April 18, 1973

I, R. J. Truitt, hereby  
 certify that the taxes have been  
 paid for the last Ten (10) years  
 and up to and including 1971 for  
 the plat as shown hereon upon  
 which this certificate appears.

Map and Survey By:  
 RAYMOND BABCOCK,  
 Surveyor  
 Albuquerque, N.M.  
 June 12, 1972

Rio Grande Title Co



DRAINAGE INFORMATION SHEET

PROJECT TITLE: Duranes Elem. MAP ZONE ATLAS/DRNG. FILE #: 1014-12/06

DRB #: \_\_\_\_\_ EPC #: \_\_\_\_\_ WORK ORDER #: \_\_\_\_\_

LEGAL DESCRIPTION: Portion of Duranes Elem. School Lands of APS

CITY ADDRESS: 2436 Zickert Rd. N.W.

ENGINEERING FIRM: Jeff Mortensen & Assoc. Inc. CONTACT: Michele (Mike) F. DeLilla

ADDRESS: 6010-B Midway Park Blvd N.E. PHONE: 345-4250

OWNER: APS CONTACT: Myron Johnson

ADDRESS: P.O. Box 25704 PHONE: 242-5865

ARCHITECT: SMPC Architects CONTACT: Greg Gerwin

ADDRESS: 115 Amherst Dr. S.E. PHONE: 255-8668

SURVEYOR: Jeff Mortensen & Assoc. Inc. CONTACT: Chuck Cala

ADDRESS: 6010-B Midway Park Blvd NE. PHONE: 345-4250

CONTRACTOR: N/A CONTACT: \_\_\_\_\_

ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_

TYPE OF SUBMITTAL:

- DRAINAGE REPORT
- DRAINAGE PLAN
- CONCEPTUAL GRADING & DRAINAGE PLAN
- GRADING PLAN
- EROSION CONTROL PLAN
- ENGINEER'S CERTIFICATION
- OTHER

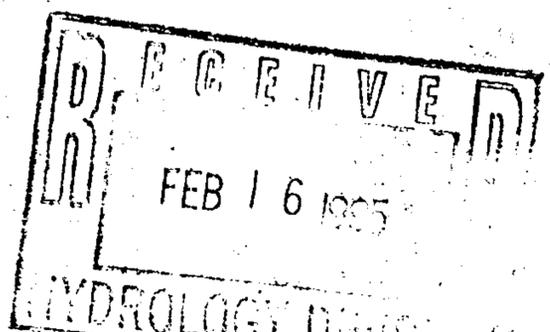
PRE-DESIGN MEETING:

- YES
- NO
- COPY PROVIDED

CHECK TYPE OF APPROVAL SOUGHT:

- SKETCH PLAT APPROVAL
- PRELIMINARY PLAT APPROVAL
- S. DEV. PLAN FOR SUB'D. APPROVAL
- S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
- SECTOR PLAN APPROVAL
- FINAL PLAT APPROVAL
- FOUNDATION PERMIT APPROVAL
- BUILDING PERMIT APPROVAL
- CERTIFICATE OF OCCUPANCY APPROVAL
- GRADING PERMIT APPROVAL
- PAVING PERMIT APPROVAL
- S.A.D. DRAINAGE REPORT
- DRAINAGE REQUIREMENTS
- OTHER \_\_\_\_\_ (SPECIFY)

DATE SUBMITTED: 2/15/95  
BY: Michele F. DeLilla





W  
W  
W  
W  
W

JEFF MORTENSEN & ASSOCIATES, INC. □ ENGINEERS & SURVEYORS □ (505) 345-4250  
6010-B MIDWAY PARK BLVD. N.E. □ ALBUQUERQUE □ NEW MEXICO 87109 □ FAX (505) 345-4254

10403  
February 15, 1995

John Curtin  
Hydrology Department  
City of Albuquerque  
P. O. Box 1293  
Albuquerque, NM 87103

RE: Duranes Elementary School MDP (H12/D6)

Dear John:

This letter shall be a guide to address the comments you discussed with Mr. Mortensen regarding the above referenced project. As can be seen in the revised plan, the original concept of the project has been preserved, while more detail is now provided. The following items were clarified/added:

- 1)  $V_{10 \text{ day}}$  and  $V_{\text{max}}$  limits for the pond in Basin H
- 2)  $V_{\text{max}}$  limits for the ponds in Basin C
- 3) A third small detention pond southwest of the two original larger detention ponds in Basin C

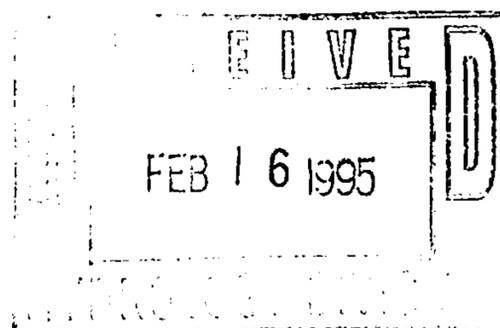
If you have any questions or comments regarding this information, please do not hesitate to call.

Sincerely,

JEFF MORTENSEN & ASSOCIATES, INC.

Michele F. DeLilla  
Michele (Mike) F. DeLilla, E.I.T.

MFD:fmt





# *City of Albuquerque*

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

March 10, 1995

Joe Kelley, PE  
CHAVEZ-GRIEVES  
5639 Jefferson NE  
Albuquerque, NM 87109

RE: GRADING & DRAINAGE PLAN FOR DURANES ELEM SCHOOL (H-12/D6)  
RECEIVED FEBRUARY 15, 1995 FOR BUILDING PERMIT APPROVAL  
ENGINEER'S STAMP DATED 2-13-95

Dear Mr. Kelley:

Based on the information included in the submittal referenced above, City Hydrology approves this plan for Building Permit.

Include a copy of the approved Grading & Drainage Plan, dated 2-13-95, in the set of construction documents that will be submitted to Code Administration for the Building Permit.

A separate permit is required for construction of private drainage facilities within the City right of way. A copy of this letter must be on hand when applying for the excavation permit.

Engineer's Certification of grading & drainage per DPM checklist must be approved before any Certificate of Occupancy will be released.

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

Sincerely,

John P. Curtin, PE  
Civil Engineer/Hydrology

c: Andrew Garcia  
Arlene Portillo

DRAINAGE INFORMATION

PROJECT TITLE: Duranes Elementary ZONE ATLAS/DRNG. FILE #: H12/D6

DRB#: \_\_\_\_\_ EPC #: \_\_\_\_\_ WORK ORDER #: \_\_\_\_\_

LEGAL DESCRIPTION: Portion of Duranes Elemntary

CITY ADDRESS: 2436 Zickert Rd. NW

ENGINEERING FIRM: Chavez-Grieves

CONTACT: Joe Kelley

ADDRESS: 5639 Jefferson NE

PHONE: 344-4080

OWNER: Albuquerque Public Schools

CONTACT: \_\_\_\_\_

ADDRESS: P.O. Box 25704

PHONE: 242-5865

ARCHITECT: SMPC

CONTACT: Greg Gerwin

ADDRESS: 115 Amherst SE

PHONE: 255-8668

SURVEYOR: Jeff Mortensen & Associates

CONTACT: Chuck Cala

ADDRESS: 6010B Midway Park Blvd

PHONE: 345-4250

CONTRACTOR: not selected

CONTACT: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

PHONE: \_\_\_\_\_

TYPE OF SUBMITTAL:

- DRAINAGE REPORT
- DRAINAGE PLAN
- CONCEPTUAL GRADING & DRAINAGE PLAN
- GRADING PLAN
- EROSION CONTROL PLAN
- ENGINEER'S CERTIFICATION
- OTHER

CHECK TYPE OF APPROVAL SOUGHT:

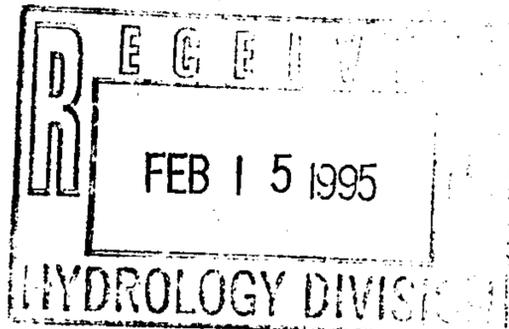
- SKETCH PLAT APPROVAL
- PRELIMINARY PLAT APPROVAL
- S. DEV. PLAN FOR SUB'D. APPROVAL
- S. DEV. PLAN FOR BLDG. PRMT. APPROVAL
- SECTOR PLAN APPROVAL
- FINAL PLAT APPROVAL
- FOUNDATION PERMIT APPROVAL
- BUILDING PERMIT APPROVAL
- CERTIFICATE OF OCCUPANCY APPROVAL
- GRADING PERMIT APPROVAL
- PAVING PERMIT APPROVAL
- S.A.D. DRAINAGE REPORT
- DRAINAGE REQUIREMENTS
- OTHER \_\_\_\_\_ (SPECIFY)

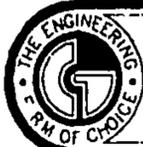
PRE-DESIGN MEETING:

- YES
- NO
- COPY PROVIDED

DATE SUBMITTED: February 14, 1995

BY: Joe Kelley, P.E.



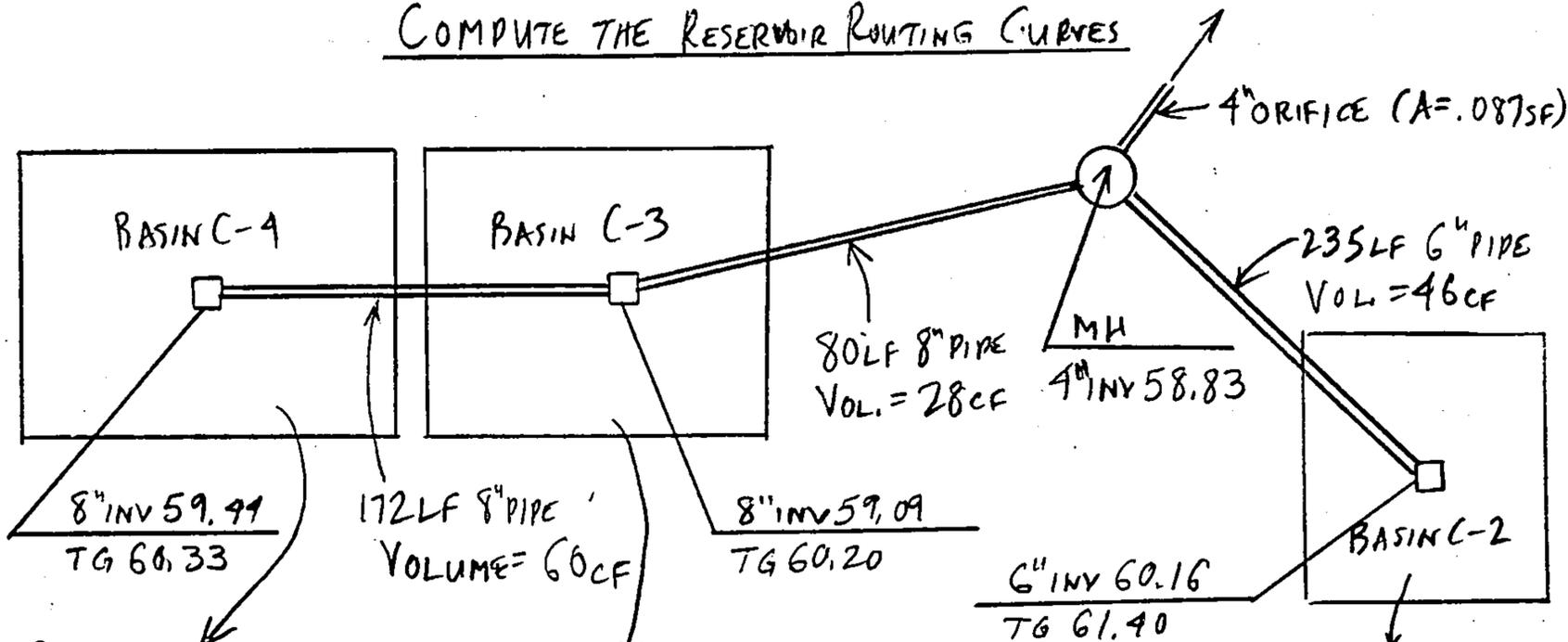


# CHAVEZ • GRIEVES CONSULTING ENGINEERS, INC.

5639 JEFFERSON STREET N.E. • ALBUQUERQUE, NEW MEXICO 87109  
PHONE (505) 344-4080 • FAX (505) 343-8759

SHEET NO. 1 OF 9  
JOB DURANES ELEMENTARY  
SUBJECT \_\_\_\_\_  
CLIENT \_\_\_\_\_  
JOB NO. \_\_\_\_\_  
BY JPK DATE 3/9/95

## COMPUTE THE RESERVOIR ROUTING CURVES



POND ELEV	VOL (CCF)
59.44	0
60.33	4
61.20	1960
61.40	1830
61.50	1530

POND ELEV	VOL (CCF)	INCREMENTAL, NOT CUMULATIVE VOLUMES, TYP
59.09	0	
60.20	4	
60.33	637	
61.20	4263	
61.40	357	
61.50	480	

POND ELEV	VOL (CCF)
60.16	0
61.40	4
61.50	100
61.80	400
61.90	900

TREAT THE PONDS AS ONE CUMULATIVE POND.

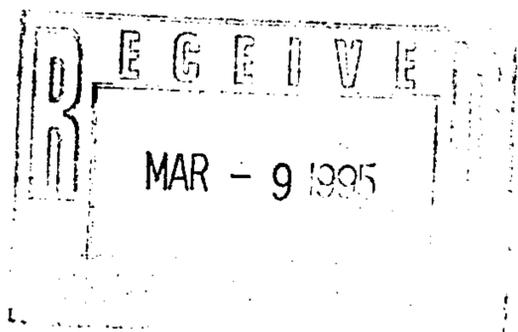
USE THE ORIFICE EQUATION TO COMPUTE Q:

$$Q = 0.6 A \sqrt{2gh} \times C.F. \rightarrow \text{CLOGGING FACTOR} = 15\% (0.85)$$

$$Q = 0.6 (0.087) \sqrt{2(32.2)} \sqrt{h} (0.85) = 0.356 \sqrt{h}$$

$$h = \text{WATER ELEV} - 59.00 \quad \leftarrow \text{ELEV OF 4" PIPE ELEV.}$$

ELEV	CUMULATIVE VOL (CCF)	h	Q (CFS)
58.83	0	0	0
59.09	28	.09	.11
59.44	88	.44	.24
60.16	134	1.16	.38
60.20	138	1.20	.39
60.33	779	1.33	.41
61.20	6998	2.20	.53
61.40	9189	2.40	.55
61.50	11,299	2.50	.563
	12,986		JMA



3/9/95 4:30

JOHN-

HERE IS THE REVISED CALCS FOR DURANES.  
I WOULD APPRECIATE IT IF YOU COULD REVIEW  
IT WHILE IT'S FRESH IN YOUR MIND. THE

100-YEAR W.S. ELEV'S ARE ON P. 7. PLEASE  
LET ME KNOW WHEN YOU APPROVE THIS, AS  
THE SCHOOL DISTRICT IS ANXIOUS TO BEGIN

CONSTRUCTION.

THANKS!

JOE KELLEY

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1:
2:   AHYMO PROGRAM (AHYMO194) - AMAFCA Hydrologic Model - January, 1994
3:   RUN DATE (MON/DAY/YR) = 03/09/1995
4:   START TIME (HR:MIN:SEC) = 14:08:19   USER NO.= CHVZ_GNM.I01
5:   INPUT FILE = AHYMO.IN
6:

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7: *****
8: ***** CHAVEZ-BRIEVES CONSULTING ENGINEERS, INC. *****
9: ***** DURANES ELEMENTARY PARKING LOT *****
10: ***** PROPOSED CONDITIONS *****
11: ***** COMPUTATIONS FOR BASIN C *****
12: *****

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13: *S* FILENAME: G:\S05\S0517951\DOCUMENT\AHYMO.IN\OUT
14: *****

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15: *S 100-YEAR, 6-HOUR STORM
16: *S MARCH 9, 1995
17: *S COMPUTE THE RAINFALL DISTRIBUTION.

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18: START          0.00
19: RAINFALL       TYPE=1 RAIN QUARTER=0 RAIN ONE=2.01
20:                RAIN SIX=2.35 RAIN DAY=2.75 DT=0.03333
21:

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COMPUTED 6-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS 2 - PEAK AT 1.40 HR.

DT =	.033330 HOURS		END TIME = 5.999400 HOURS				
23:							
24:	.0000	.0016	.0033	.0049	.0066	.0084	.0102
25:	.0120	.0139	.0158	.0178	.0199	.0219	.0241
26:	.0263	.0286	.0309	.0333	.0358	.0384	.0411
27:	.0439	.0467	.0497	.0529	.0561	.0596	.0631
28:	.0669	.0709	.0751	.0807	.0866	.0930	.1066
29:	.1371	.1840	.2514	.3434	.4644	.6186	.8106
30:	1.0449	1.2624	1.3533	1.4300	1.4982	1.5602	1.6174
31:	1.6704	1.7200	1.7664	1.8102	1.8514	1.8904	1.9273
32:	1.9622	1.9953	2.0268	2.0566	2.0850	2.0915	2.0976
33:	2.1033	2.1088	2.1140	2.1191	2.1239	2.1285	2.1329
34:	2.1373	2.1414	2.1454	2.1494	2.1531	2.1568	2.1604
35:	2.1639	2.1673	2.1706	2.1739	2.1771	2.1802	2.1832
36:	2.1862	2.1891	2.1919	2.1947	2.1975	2.2002	2.2028
37:	2.2054	2.2080	2.2105	2.2130	2.2154	2.2178	2.2202
38:	2.2225	2.2248	2.2270	2.2293	2.2315	2.2336	2.2358
39:	2.2379	2.2399	2.2420	2.2440	2.2460	2.2480	2.2500
40:	2.2519	2.2538	2.2557	2.2576	2.2594	2.2612	2.2631
41:	2.2648	2.2666	2.2684	2.2701	2.2718	2.2735	2.2752
42:	2.2769	2.2785	2.2802	2.2818	2.2834	2.2850	2.2866
43:	2.2881	2.2897	2.2912	2.2928	2.2943	2.2958	2.2973
44:	2.2987	2.3002	2.3017	2.3031	2.3045	2.3060	2.3074
45:	2.3088	2.3102	2.3115	2.3129	2.3143	2.3156	2.3169
46:	2.3183	2.3196	2.3209	2.3222	2.3235	2.3248	2.3261
47:	2.3273	2.3286	2.3298	2.3311	2.3323	2.3335	2.3348
48:	2.3360	2.3372	2.3384	2.3396	2.3408	2.3419	2.3431
49:	2.3443	2.3454	2.3466	2.3477	2.3488	2.3500	

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50:
51: *S DIVIDE BASIN C OF THE ORIGINAL MASTERPLAN INTO FOUR SUBBASINS,
52: *S DISCHARGING TO THE EAST AND WEST DETENTION PONDS IN THE PARKING
53: *S LOT, A NEW SUBBASIN IN THE COURTYARD, AND THE REMAINING AREA
54: *S DISCHARGING TO THE EXISTING INLET VIA THE HISTORICAL PATTERN.

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55: *****
56: *S COMPUTE BASIN C-2 RUNOFF. BASIN C-2 DISCHARGES TO THE NEW
57: *S STORM DRAIN SYSTEM IN THE COURTYARD BETWEEN THE BUILDINGS.
58: *S THIS HYDROGRAPH WILL BE ROUTED THROUGH ITS OWN PONDING AREA
59: *S TO DETERMINE ITS LOCAL DEPTH. IT WILL THEN BE ROUTED AGAIN
60: *S THROUGH A CUMULATIVE POND MODEL TO DETERMINE THE APPROXIMATE
61: *S DEPTH OF THE REMAINDER OF THE PONDS.

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62: COMPUTE:NM HYD ID=5 HYD=BASIN_C2 DA=.000642 SQ MI
63:              ZA=0 ZB=0 ZC=0 ZD=100?
64:              TP=0.1333 RAINFALL=-1

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67: UNIT PEAK = 2.5346 C UNIT VOLUME = .9949 B = 526.28 P60 = 2.0100  
 68: AREA = .000642 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR  
 69: RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

71: PRINT HYD ID=5 CODE=1

73: HYDROGRAPH FROM AREA BASIN\_C2

76: RUNOFF VOLUME = 2.11537 INCHES = .0724 ACRE-FEET  
 77: PEAK DISCHARGE RATE = 1.94 CFS AT 1.500 HOURS BASIN AREA = .0006 SQ. MI.

81: \*S ROUTE BASIN C-2 THROUGH POND CREATED BY NEW INLET IN COURTYARD.  
 82: \*S THIS WILL ALLOW US TO DETERMINE WHAT ELEVATION THE RUNOFF WILL  
 83: \*S REACH IN THAT AREA.

84: ROUTE RESERVOIR ID=2 HYD=BASIN\_C2 INFLOW ID=5 CODE=10

85: OUTFLOW STORAGE(AC-FT) ELEVATION

86:	0	0	60.16
87:	0.77	.0001	61.40
88:	0.92	.011	61.80
89:	0.95	.032	61.90

91: \* \* \* \* \*

93:	TIME	INFLOW	ELEV	VOLUME	OUTFLOW
94:	(HRS)	(CFS)	(FEET)	(AC-FT)	(CFS)
96:	.00	.00	60.16	.000	.00
97:	.33	.00	60.16	.000	.00
98:	.67	.00	60.16	.000	.00
99:	1.00	.00	60.16	.000	.00
100:	1.33	.60	61.11	.000	.59
101:	1.67	.98	61.82	.015	.93
102:	2.00	.48	61.69	.008	.88
103:	2.33	.10	60.45	.000	.18
104:	2.67	.04	60.24	.000	.05
105:	3.00	.02	60.20	.000	.02
106:	3.33	.01	60.18	.000	.02
107:	3.67	.01	60.18	.000	.01
108:	4.00	.01	60.18	.000	.01
109:	4.33	.01	60.18	.000	.01
110:	4.67	.01	60.18	.000	.01
111:	5.00	.01	60.18	.000	.01
112:	5.33	.01	60.18	.000	.01
113:	5.67	.01	60.18	.000	.01
114:	6.00	.01	60.18	.000	.01
115:	6.33	.00	60.16	.000	.00

116: PEAK DISCHARGE = 1.925 CFS - PEAK OCCURS AT HOUR 1.70  
 117: MAXIMUM WATER SURFACE ELEVATION = 61.818  
 118: MAXIMUM STORAGE = .0148 AC-FT INCREMENTAL TIME = .033330HRS

120: PRINT HYD ID=2 HYD=BASIN\_C2 CODE=1

122: HYDROGRAPH FROM AREA BASIN\_C2

124:	TIME	FLOW	TIME	FLOW	TIME	FLOW	TIME	FLOW	TIME	FLOW
125:	HRS	CFS	HRS	CFS	HRS	CFS	HRS	CFS	HRS	CFS
126:	.000	.0	1.333	.6	2.666	.0	4.000	.0	5.333	.0
127:	.667	.0	2.000	.9	3.333	.0	4.666	.0	5.999	.0

129: RUNOFF VOLUME = 2.12849 INCHES = .0729 ACRE-FEET  
 130: PEAK DISCHARGE RATE = .93 CFS AT 1.700 HOURS BASIN AREA = .0006 SQ. MI.

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\*S COMPUTE BASIN C-4 RUNOFF. BASIN C-4 DISCHARGES TO THE NEW  
\*S STORM DRAIN SYSTEM VIA THE WEST PARKING LOT INLET.  
COMPUTE NM HYD ID=4 HYD=BASIN\_C4 DA=.001604 SQ MI  
%A=0 %B=1 %C=49 %D=50  
TP=0.1333 RAINFALL=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420  
UNIT PEAK = 3.1663 CFS UNIT VOLUME = .9955 B = 526.28 P60 = 2.0100  
AREA = .000802 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR  
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

K = .107939HR TP = .133300HR K/TP RATIO = .809743 SHAPE CONSTANT, N = 4.417619  
UNIT PEAK = 2.2991 CFS UNIT VOLUME = .9948 B = 382.13 P60 = 2.0100  
AREA = .000802 SQ MI IA = .35300 INCHES INF = .83840 INCHES PER HOUR  
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=4 CODE=1

HYDROGRAPH FROM AREA BASIN\_C4

RUNOFF VOLUME = 1.61741 INCHES = .1384 ACRE-FEET  
PEAK DISCHARGE RATE = 4.03 CFS AT 1.500 HOURS BASIN AREA = .0016 SQ. MI.

\*S COMPUTE BASIN C-3 RUNOFF. BASIN C-3 DISCHARGES TO THE NEW  
\*S STORM DRAIN SYSTEM VIA THE EAST PARKING LOT INLET.  
COMPUTE NM HYD ID=1 HYD=BASIN\_C3 DA=.000782 SQ MI  
%A=0 %B=5 %C=1 %D=94  
TP=0.1333 RAINFALL=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420  
UNIT PEAK = 2.9021 CFS UNIT VOLUME = .9955 B = 526.28 P60 = 2.0100  
AREA = .000735 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR  
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

K = .127981HR TP = .133300HR K/TP RATIO = .960095 SHAPE CONSTANT, N = 3.680160  
UNIT PEAK = .11730 CFS UNIT VOLUME = .8860 B = 333.25 P60 = 2.0100  
AREA = .000047 SQ MI IA = .47500 INCHES INF = 1.18000 INCHES PER HOUR  
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=1 CODE=1

HYDROGRAPH FROM AREA BASIN\_C3

RUNOFF VOLUME = 2.03815 INCHES = .0850 ACRE-FEET  
PEAK DISCHARGE RATE = 2.30 CFS AT 1.500 HOURS BASIN AREA = .0008 SQ. MI.

\*S ADD BASIN C-3 TO BASIN C-4 FOR THE TOTAL RUNOFF  
\*S FROM THE PARKING LOT VIA THE PONDS (UNROUTED).  
ADD HYD ID=1 HYD=PARK\_LOT ID I=4 ID II=1  
PRINT HYD ID=1 CODE=1

HYDROGRAPH FROM AREA PARK\_LOT

RUNOFF VOLUME = 1.75507 INCHES = .2233 ACRE-FEET

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*S ADD BASIN C-2 (UNROUTED) TO THIS HYDROGRAPH. THIS WILL RESULT
*S IN THE APPROXIMATE TOTAL HYDROGRAPH BEING DISCHARGED TO THE
*S 4" ORIFICE MANHOLE.
ADD HYD ID=1 HYD=ORIF_IN ID I=1 ID II=5
PRINT HYD ID=1 CODE=1
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HYDROGRAPH FROM AREA ORIF\_IN

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RUNOFF VOLUME = 1.83137 INCHES = .2958 ACRE-FEET
PEAK DISCHARGE RATE = (8.28 CFS) AT 1.500 HOURS BASIN AREA = .0030 SQ. MI.
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*S ROUTE THE TOTAL HYDROGRAPH THROUGH THE POND
*S CREATED IN WEST PARKING LOT. WHILE THE CONTROLLED DISCHARGE
*S THAT CREATES THE DETENTION IS ACTUALLY 80 LF DOWNSTREAM
*S THROUGH A 8" PIPE, IT CAN BEST BE MODELLED IN ANYMO IN THIS
*S APPROXIMATE MANNER. THE REASON WHY IT CAN BE
*S MODELLED IN THIS MANNER IS THAT THE TOTAL POND SYSTEM
*S IS CONTROLLED BY A SINGLE 4" PIPE OUT OF THE COMMON
*S DOWNSTREAM MANHOLE. THIS MODEL WILL RESULT IN AN APPROXIMATE
*S DEPTH OF THE POND IN BASIN C-3.
*S MODELLING THE POND IN THIS FASHION IS CONSERVATIVE, BECAUSE IT
*S WILL RESULT IN A HIGHER WATER SURFACE THAN WOULD BE
*S EXPERIENCED UNDER ACTUAL CONDITIONS.
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ROUTE RESERVOIR ID=3 HYD=ORIF_OUT INFLOW ID=1 CODE=10
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OUTFLOW STORAGE(AC-FT) ELEVATION
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0	0	58.83
0.11	.0006	59.09
0.24	.002	59.44
0.38	.003	60.16
0.39	.0032	60.20
0.41	.018	60.33
0.53	.161	61.20
0.55	.211	61.40
0.563	.259	61.50

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* * * * *
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TIME INFLOW ELEV VOLUME OUTFLOW
(HRS) (CFS) (FEET) (AC-FT) (CFS)
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.00	.00	58.83	.000	.00
.33	.00	58.83	.000	.00
.67	.00	58.83	.000	.00
1.00	.00	58.83	.000	.00
1.33	2.17	60.24	.008	.40
1.67	4.24	61.17	.156	.53
2.00	1.87	61.41	.218	.55
2.33	.39	61.44	.229	.56
2.67	.15	61.42	.221	.55
3.00	.07	61.39	.209	.55
3.33	.05	61.34	.195	.54
3.67	.04	61.28	.182	.54
4.00	.04	61.23	.168	.53
4.33	.04	61.16	.154	.52
4.67	.04	61.08	.141	.51
5.00	.04	61.00	.128	.50
5.33	.04	60.92	.116	.49
5.67	.04	60.85	.103	.48
6.00	.05	60.78	.091	.47

263: 6.33 .00 60.70 .079 .46  
 264: 6.67 .00 60.63 .067 .45  
 265: 7.00 .00 60.55 .054 .44  
 266: 7.33 .00 60.48 .042 .43  
 267: 7.67 .00 60.41 .031 .42  
 268: 8.00 .00 60.34 .019 .41  
 269: 8.33 .00 60.24 .008 .40  
 270: 8.67 .00 58.98 .000 .06

271: PEAK DISCHARGE = 1.555 CFS - PEAK OCCURS AT HOUR 2.23  
 272: MAXIMUM WATER SURFACE ELEVATION = 61.4407  
 273: MAXIMUM STORAGE = .2301 AC-FT INCREMENTAL TIME= .033330HRS

275: PRINT HYD ID=3 CODE=1

277: HYDROGRAPH FROM AREA ORIF\_OUT

280: RUNOFF VOLUME = 1.83137 INCHES = .2958 ACRE-FEET  
 281: PEAK DISCHARGE RATE = .56 CFS AT 2.233 HOURS BASIN AREA = .0030 SQ. MI.

285: \*S COMPUTE BASIN C-1 RUNOFF. BASIN C-1 DISCHARGES TO THE EXISTING  
 286: \*S STORM INLET IN THE SCHOOLYARD.

287: COMPUTE\_NM HYD7 ID=1 HYD=BASIN\_C1 DA=.000145 SQ MI  
 288: %A=0 %B=36 %C=25 %D=39  
 289: TP=0.1333 RAINFALL=-1

291: K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420  
 292: UNIT PEAK = .22326 CFS UNIT VOLUME = .9472 B = 526.28 P60 = 2.0100  
 293: AREA = .000057 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR  
 294: RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

297: K = .121989HR TP = .133300HR K/TP RATIO = .915143 SHAPE CONSTANT, N = 3.868881  
 298: UNIT PEAK = .22980 CFS UNIT VOLUME = .9437 B = 346.33 P60 = 2.0100  
 299: AREA = .000088 SQ MI IA = .43852 INCHES INF = 1.07787 INCHES PER HOUR  
 300: RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

302: PRINT HYD ID=1 CODE=1

304: HYDROGRAPH FROM AREA BASIN\_C1

307: RUNOFF VOLUME = 1.37783 INCHES = .0107 ACRE-FEET  
 308: PEAK DISCHARGE RATE = .34 CFS AT 1.500 HOURS BASIN AREA = .0001 SQ. MI.

312: \*S ADD THE OTHER RUNOFF FROM THE ORIFICE INLET FOR THE TOTAL  
 313: \*S FROM THE SITE DISCHARGED TO THE STORM DRAIN.

314: ADD HYD ID=1 HYD=TOTAL\_SD ID I=1 ID II=3  
 315: PRINT HYD ID=1 CODE=1

317: HYDROGRAPH FROM AREA TOTAL\_SD

320: RUNOFF VOLUME = 1.81057 INCHES = .3064 ACRE-FEET  
 321: PEAK DISCHARGE RATE = .80 CFS AT 1.533 HOURS BASIN AREA = .0032 SQ. MI.

325: FINISH



639 JEFFERSON STREET N.E. • ALBUQUERQUE, NEW MEXICO 87109  
 PHONE (505) 344-4080 • FAX (505) 343-8759

SHEET NO. 7 OF 9  
 JOB \_\_\_\_\_  
 SUBJECT \_\_\_\_\_  
 CLIENT \_\_\_\_\_  
 JOB NO. \_\_\_\_\_  
 BY \_\_\_\_\_ DATE \_\_\_\_\_

### BASIN C FINAL ANALYSIS

BASIN C HAS BEEN SUBDIVIDED FROM THE MASTERPLAN TO MORE ACCURATELY DETERMINE ITS DISCHARGE.

BASIN	$Q_{100}$ (CFS) <sup>UNROUTED</sup>	$D_{100}$ (ELEV)	$Q_{100}$ <sup>ROUTED</sup>
C-1	0.34	-	-
C-2	1.94	61.82	0.92
C-3	2.30	61.44	-
C-4	4.03	61.44	-
C-2 THRU -4	8.28	61.44	0.56
TOTAL			0.80

THIS MEANS THAT 1.23 PEAK DISCHARGE WILL BE CONVEYED FROM THE SITE TO THE STORM DRAIN SYSTEM, AND NO RUNOFF WILL DISCHARGE INTO ZICKERT NW FROM THE SITE.

HERE'S A RUNOFF COMPARISON:

LOCATION	EXISTING RUNOFF	PROPOSED RUNOFF
TO ZICKERT	FROM MASTERPLAN EXISTING BASINS C & K: 2.9 CFS	NONE
INTO SD	FROM MASTERPLAN EXISTING BASIN E: 0.2 CFS	FROM PROPOSED BASIN C: 0.80 CFS
TOTAL	3.1 CFS	0.80 CFS

CONCLUSION: THE NET PROPOSED DISCHARGE IS LESS THAN EXISTING.

BASIN # CALCULATIONS

1. COMPUTE THE 100-YEAR, 10-DAY VOLUME.

USE THE PROCEDURE OUTLINED IN DPM SECTION 22.2, JAN. 1993.

EQ'N C-9:

$$P_{10-DAY} = 10.0 - \frac{24.9}{(P_{1440})^{1.4}} = 10.0 - \frac{24.9}{(2.75)^{1.4}} = 3.96''$$

EQ'N A-9:

$$V_{10-DAY} = V_{360} + A_D (P_{10-DAY} - P_{360}) / 12''$$

WHERE  $V_{360}$  = 6-HR STORM VOL. (AC-FT)

$A_D$  = IMPERVIOUS AREA (AC.)

$$\begin{aligned} E_w &= (E_A A_A + E_B A_B + E_C A_C + E_D A_D) / A_T \\ &= [0.78(0.18) + 1.13(1.16) + 2.12(0.49)] / 1.83 = 1.36'' \end{aligned}$$

$$\begin{aligned} V_{360} &= (E_w / 12) \cdot A_T \\ &= 0.36 / 12 \cdot 1.83 = 0.2075 \text{ AC-FT} \end{aligned}$$

$$\begin{aligned} V_{10-DAY} &= 0.2075 + 0.49(3.96 - 2.35) / 12'' \\ &= 0.273 \text{ AC-FT} = 11,900 \text{ CF} \end{aligned}$$

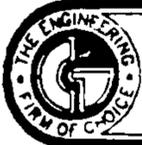
POND STORAGE

ELEV.	AREA (SF)	INCREMENTAL VOL (CF)	CUMULATIVE VOL (CF)
57.5	1690		
59	4360	4540	4540
60	17,010	10,685	15,225
60.5	30,450	11,865	27,090

100-YEAR,  
10-DAY,  
V.I.S. EL.

2. PEAK DISCHARGE

$$\begin{aligned} Q_P &= Q_{PA} A_A + Q_{PB} A_B + Q_{PC} A_C + Q_{PD} A_D \\ &= [2.28(0.18) + 3.14(1.16) + 4.70(0.49)] = 6.4 \text{ CFS} \end{aligned}$$



# CHAVEZ • GRIEVES CONSULTING ENGINEERS, INC.

5639 JEFFERSON STREET N.E. • ALBUQUERQUE, NEW MEXICO 87109  
PHONE (505) 344-4080 • FAX (505) 343-8759

SHEET NO. 9 OF 9  
JOB \_\_\_\_\_  
SUBJECT \_\_\_\_\_  
CLIENT \_\_\_\_\_  
JOB NO. \_\_\_\_\_  
BY \_\_\_\_\_ DATE \_\_\_\_\_

## 2. COMPARISON BETWEEN EXISTING AND DEVELOPED CONDITIONS (IN ACCORDANCE WITH PREVIOUS MASTER PLAN):

### BASIN C & BASIN D

1) C:  $\Delta V_{100} = 13,346 - 1,900 = 11,446$  CF (INCREASE)

D:  $\Delta V_{100} = 4,480 - 1,860 = 2,620$  CF (INCREASE)

2)  $\Delta Q_{100} = Q_{\text{BASIN C}} + Q_{\text{BASIN D}} - Q_{\text{BASIN C (DEVELOPED)}}$

$\Delta Q_{100} = 8.5 + 2.8 - 0.80 = 10.5$  CFS (DECREASE)

### BASIN H

1)  $\Delta V_{100} = 10,010 - 9,039^* = 971$  CF (DECREASE)

2)  $\Delta Q_{100} = 7.3 - 6.4 = 0.9$  CFS (DECREASE)

MORTENSEN  
MASTERPLAN VALUES

11,120 CF

2,620 CF

10.5 CFS

1,160 CF

1.1 CFS

## 3. CONCLUSION

AS THE COMPARISON ABOVE SHOWS, THE DIFFERENCES BETWEEN THE MASTERPLAN AND THIS PLAN ARE SLIGHT. THE RATIONALE FOR THIS PLAN IS THE SAME AS FOR THE MASTERPLAN:

1) IN BASIN C, THERE IS AN INCREASE IN RUNOFF VOLUME AND PEAK DISCHARGE. HOWEVER, THE PEAK DISCHARGE WAS REDUCED WELL BELOW EXISTING LEVELS BY DISCHARGING THE POUNDS THROUGH A 4" PIPE CONNECTED TO THE STORM DRAIN. THE INCREASED VOLUME IS DETAINED ON-SITE IN THE PARKING LOT, AND THE 100-YEAR FLOOD WATERS ARE CONTAINED ON PAVED SURFACES.

2) IN BASIN H, THE RUNOFF PEAK AND VOLUME IS DECREASED FROM EXISTING LEVELS BECAUSE SOME OF THE BASIN WAS DIVERTED TO OTHER BASINS. THE PONDING VOLUME AVAILABLE IN BASIN H IS WELL ABOVE THE 100-YEAR STORM VOLUME.

\*100-YEAR, 10-DAY VOLUME = 11,900 CF (NOT COMPUTED IN MASTERPLAN).



5639 JEFFERSON STREET NE · ALBUQUERQUE, NEW MEXICO 87109 · PHONE (505) 344-4080 · FAX (505) 343-8759

February 14, 1995

Mr. John Curtin  
City of Albuquerque Public Works Dept., Hydrology Division  
City-County Building Room 301, P.O. Box 1293  
Albuquerque, New Mexico 87103

**RE: GRADING/DRAINAGE PLAN FOR DURANES ELEMENTARY - H12/D-6  
C/G PROJECT #S05-179-5194**

Dear Mr. Curtin:

Transmitted herewith for building permit approval is the grading/drainage plan for this project.

The comments in your letter of February 2, 1995 have been addressed as follows:

1. The pond volume for the 100-year, 10-day storm has been calculated for Basin H, and the corresponding water surface elevation indicated on the plans. A copy of the Private Drainage Facility Covenant that will be executed is attached.
2. The extent of ponding in Basin C has been shown, and the storm routing for that basin has been accomplished using the computerized form of Ahymo.

Please call if you have any questions or comments prior to approval.

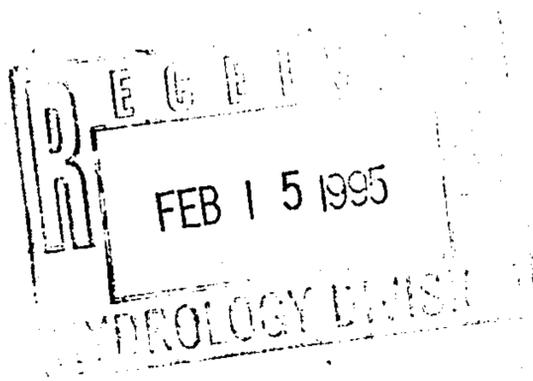
Sincerely,

CHAVEZ-GRIEVES CONSULTING ENGINEERS, INC.

*Joe Kelley*  
Joe P. Kelley, P.E.  
Project Engineer

JPK/cjr

Enclosure





# City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

February 2, 1995

Joe Kelley, PE  
CHAVEZ-GRIEVES  
5639 Jefferson NE  
Albuquerque, NM 87109

RE: GRADING & DRAINAGE PLAN FOR DURANES ELEMENTARY SCHOOL (H-12/D6)  
RECEIVED JANUARY 23, 1995 FOR GRADING /PAVING & BUILDING PERMIT  
ENGINEER'S STAMP DATED 1-23-95

Dear Mr. Kelley:

Based on the information included in the submittal referenced above, City Hydrology has the following comments that must be addressed before this project will be approved:

1. Since Basin H has no outlet, it must be designed to hold the 100 year - 10 day storm. Indicate the maximum water surface elevation (MWSEL), the volume provide at that elevation and the extent of the ponding in Basin H for the 100 year - 10 day storm. Execute a Private Facility Drainage Covenant for the retention pond and submit it for processing.
2. Indicate the extent of ponding in Basin "C". If the MWSEL is 62.10, then the pond will extend into Basin "H" and the adjacent property to the west. Since this problem originated in the Master Plan, contact Jeff Mortensen to come up with a solution.

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  
Jeff Mortensen, JMA, 6010-B Midway Park Blvd NE 87109  
Myron Johnson, APS, P.O. Box 25704, Alb. NM 87125

DRAINAGE INFORMATION

PROJECT TITLE: Duranes Elementary ZONE ATLAS/DRNG. FILE #: H12/D6

DRB#: \_\_\_\_\_ EPC #: \_\_\_\_\_ WORK ORDER #: \_\_\_\_\_

LEGAL DESCRIPTION: portion of Duranes Elemntary

CITY ADDRESS: 2436 Zichert Rd. NW

ENGINEERING FIRM: Chavez-Grieves CONTACT: Joe Kelley

ADDRESS: 5639 Jefferson NE PHONE: 344-4080

OWNER: Albuquerque Public Schools CONTACT: \_\_\_\_\_

ADDRESS: P.O. Box 25704 PHONE: 242-5865

ARCHITECT: SMPC CONTACT: Greg Gerwin

ADDRESS: 115 Amherst SE PHONE: 255-8668

SURVEYOR: Jeff Mortensen & Associates CONTACT: Chuck Cala

ADDRESS: 6010B Midway Park Blvd PHONE: 345-4250

CONTRACTOR: not selected CONTACT: \_\_\_\_\_

ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_

TYPE OF SUBMITTAL:

- DRAINAGE REPORT
- DRAINAGE PLAN
- CONCEPTUAL GRADING & DRAINAGE PLAN
- GRADING PLAN
- EROSION CONTROL PLAN
- ENGINEER'S CERTIFICATION
- OTHER

CHECK TYPE OF APPROVAL SOUGHT:

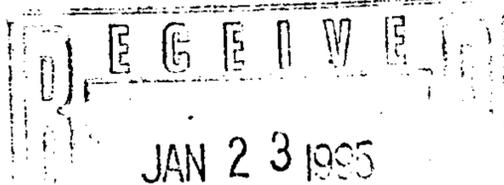
- SKETCH PLAT APPROVAL
- PRELIMINARY PLAT APPROVAL
- S. DEV. PLAN FOR SUB'D. APPROVAL
- S. DEV. PLAN FOR BLDG. PRMT. APPROVAL
- SECTOR PLAN APPROVAL
- FINAL PLAT APPROVAL
- FOUNDATION PERMIT APPROVAL
- BUILDING PERMIT APPROVAL
- CERTIFICATE OF OCCUPANCY APPROVAL
- GRADING PERMIT APPROVAL
- PAVING PERMIT APPROVAL
- S.A.D. DRAINAGE REPORT
- DRAINAGE REQUIREMENTS
- OTHER \_\_\_\_\_ (SPECIFY)

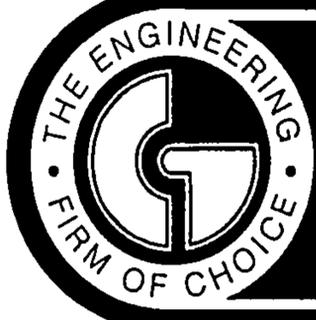
PRE-DESIGN MEETING:

- YES
- NO
- COPY PROVIDED

DATE SUBMITTED: January 23, 1995

BY: Joe Kelley, P.E.





# CHAVEZ · GRIEVES CONSULTING ENGINEERS, INC.

5639 JEFFERSON STREET NE · ALBUQUERQUE, NEW MEXICO 87109 · PHONE (505) 344-4080 · FAX (505) 343-8759

January 23, 1995

Mr. John Curtin  
City of Albuquerque Public Works Dept., Hydrology Division  
City-County Building Room 301, P.O. Box 1293  
Albuquerque, New Mexico 87103

**RE: GRADING/DRAINAGE PLAN FOR DURANES ELEMENTARY  
H12/D-6 - C/G PROJECT #SO5-179-5194**

Dear Mr. Curtin:

Transmitted herewith for building permit approval is the grading/drainage plan for this project.

The comments in your letter of December 20, 1994 have been addressed as follows:

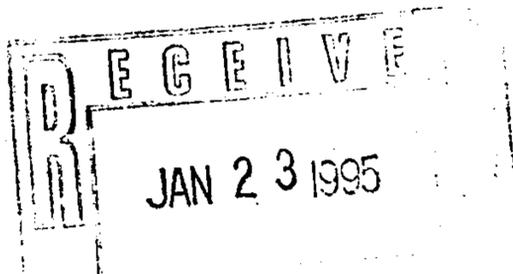
1. The storm drain system in Basin C has been revised, but the calculations made in the original Masterplan still apply. The point of outfall for Basin C is the same as originally proposed: a connection to the existing storm inlet via a 4" pipe. The 4" pipe provides the controlled discharge for Basin C, which turns the Basin C parking lot into a detention pond. Because the parking lot grading was changed from the masterplan, we included some calculations with this submittal to show that the pond volume provided is adequate, and the discharges resulting from this plan are in keeping with the Masterplan discharges.
2. The pond in Basin H has adequate volume. The 100-year volume computed in the Masterplan was 8850 CF. The total volume provided now is 27,090 CF, which is well above the 100-year volume.
3. The runoff values for Basins C and H were recomputed to account for the new building. The attached calculations verify the adequacy of the proposed improvements.

Please call if you have any questions or comments prior to approval.

Sincerely,

CHAVEZ-GRIEVES CONSULTING ENGINEERS, INC.

*Joe Kelley*  
Joe P. Kelley, P.E.  
Project Engineer



Enclosure

1. HYDROLOGIC CALCULATIONS - ADJUSTED BASINS (C & H)

BASIN C

1) VOLUME'

$$E_w = (E_A A_A + E_B A_B + E_C A_C + E_D A_D) / A_T$$

$$= [0.78(0.07) + 1.13(0.53) + 2.12(1.43)] / 2.03 = 1.81''$$

$$MDP \xrightarrow{V_{100}} = (E_w / 12) \cdot A_T$$

$$= (1.81 / 12) \cdot 2.04 = 0.3062 \text{ AC-F} = 13,338 \text{ CF}$$

13,020

2) PEAK DISCHARGE

$$Q_p = Q_{pA} A_A + Q_{pB} A_B + Q_{pC} A_C + Q_{pD} A_D$$

$$Q_p = Q_{100} = [2.28(0.07) + 3.14(0.53) + 4.70(1.43)] = 8.5 \text{ CFS}$$

8.4

3) NEW POND CALCULATION (WEST POND) - IN PARKING LOT

ELEV	AREA (SF.)	VOL (CF.)
60.33	0	6133 CF
62.10	6930	7073

NEW POND CALCULATION (EAST POND) - IN PARKING LOT

ELEV	AREA (SF.)	VOL (CF.)
60.20	0	10,455 CF
62.25	10,200	7,641

CUMULATIVE BASIN C POND VOLUME PROVIDED:

<u>THIS STUDY</u>	<u>MASTERPLAN</u>
16,588 CF	14,714 CF

THE VOLUME PROVIDED IS MORE THAN THE MASTERPLAN, AND MORE THAN THE  $V_{100}$ .

BASIN H

1) VOLUME:

$$E_w = (E_A A_A + E_B A_B + E_C A_C + E_D A_D) / A_T$$

$$= [0.78(0.18) + 1.13(1.16) + 2.12(0.49)] / 1.83 = 1.36''$$

$$V_{100} = (E_w / 12) \cdot A_T$$

$$= (1.36 / 12) \cdot 1.83 = 0.2075 \text{ AC-FT} = 9039 \text{ CF}$$

2) PEAK DISCHARGE

$$Q_p = Q_{pA} A_A + Q_{pB} A_B + Q_{pC} A_C + Q_{pD} A_D$$

$$Q_p = Q_{100} = [2.28(0.18) + 3.14(1.16) + 4.70(0.49)] = 6.4 \text{ CFS}$$

NEW POND CALCULATION (BASIN H)

ELEV	AREA (SF.)	VOL (CF)
57.5	1690	4540
59	4360	10,685
60	17,010	11,865
60.5	30,450	

} 4540  
 TOTAL = 27,090 CF >> 9039 CF  
 } 15,225  
 27,090

MASTERPLAN VOLUME = 26,624 CF

THE VOLUME PROVIDED IS MORE THAN THE MASTERPLAN VOLUME, AND THE  $V_{100}$ .

## 2. COMPARISON BETWEEN EXISTING AND DEVELOPED CONDITIONS

(IN ACCORDANCE WITH PREVIOUS MASTERPLAN):

### BASIN C & BASIN D

1) C:  $\Delta V_{100} = 13,338 - 1,900 = 11,438$  CF (INCREASE)

D:  $\Delta V_{100} = 4,480 - 1,860 = 2,620$  CF (INCREASE)

2)  $\Delta Q_{100} = Q_{\text{BASIN C}} + Q_{\text{BASIN D}} - Q_{\text{ORIFICE}}$

$\Delta Q_{100} = 8.5 + 2.8 - 0.7 = 10.6$  CFS (DECREASE)

MORTENSEN  
MASTERPLAN VALUES  
↓

11,120 CF

2,620 CF

10.5 CFS

### BASIN H

1)  $\Delta V_{100} = 10,010 - 9,039 = 971$  CF (DECREASE)

2)  $\Delta Q_{100} = 7.3 - 6.4 = 0.9$  CFS (DECREASE)

1,160 CF

1.1 CFS

## 3. CONCLUSION

AS THE COMPARISON ABOVE SHOWS, THE DIFFERENCES BETWEEN THE MASTERPLAN AND THIS PLAN ARE SLIGHT. THE RATIONALE FOR THIS PLAN IS THE SAME AS FOR THE MASTERPLAN:

1) IN BASIN C, THERE IS AN INCREASE IN RUNOFF VOLUME AND PEAK DISCHARGE. HOWEVER, THE PEAK DISCHARGE WAS REDUCED WELL BELOW EXISTING LEVELS BY DISCHARGING THE PONDS THROUGH A 4" PIPE CONNECTED TO THE STORM DRAIN. THE INCREASED VOLUME IS DETAINED ON-SITE IN THE PARKING LOT, WHOSE PONDING CAPACITY IS GREATER THAN THE TOTAL STORM VOLUME.

2) IN BASIN H, THE RUNOFF PEAK AND VOLUME IS DECREASED FROM EXISTING LEVELS BECAUSE SOME OF THE BASIN WAS DIVERTED TO OTHER BASINS. THE PONDING VOLUME PROVIDED IN BASIN H IS WELL ABOVE THE 100-YEAR STORM VOLUME.



# *City of Albuquerque*

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

December 20, 1994

Joe P. Kelley, P.E.  
CHAVEZ-GRIEVES  
5639 Jefferson NE  
Albuquerque, N.M. 87109

RE: GRADING & DRAINAGE PLAN FOR DURANES ELEMENTARY (H-12/D6)  
RECEIVED NOVEMBER 17, 1994 FOR BUILDING PERMIT APPROVAL  
ENGINEER'S STAMP DATED 11/16/94

Dear Mr. Kelley:

Based on the information included in the submittal referenced above, City Hydrology has the following comments that must be addressed prior to Building Permit approval:

The Plan submitted is not in substantial compliance with the approved Master Plan by Jeff Mortensen, dated 08-18-94.

1. The storm drain system in Basin C has been revised. Provide calculations to verify that the proposed system is adequate.
2. The pond in Basin H does not have adequate volume. The Master Plan provided 26,625 cf instead of 8850 cf. Indicate the max water surface elevation and the extent of ponding on the Plan.
3. The New Building was not indicated on the Master Plan. Provide verification that the New Building does not exceed the impervious area that it replaces.

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

**DRAINAGE INFORMATION**

DL

PROJECT TITLE: DURANES ELEMENTARY SCHOOL ZONE ATLAS/DRNG. FILE #: H-12/13-Z

DRB#: \_\_\_\_\_ EPC #: \_\_\_\_\_ WORK ORDER #: \_\_\_\_\_

LEGAL DESCRIPTION: DURANES ELEMENTARY SCHOOL

CITY ADDRESS: 2436 ZICKERT RD. NW

ENGINEERING FIRM: ChAVEZ-GRIEVES CONTACT: JOE P KELLEY P.E.

ADDRESS: 5639 JEFFERSON NE PHONE: 344-4080

OWNER: ALBUQUEROUE PUBLIC SCHOOLS CONTACT: \_\_\_\_\_

ADDRESS: 725 UNIVERSITY BLVD. PHONE: 842-8211

ARCHITECT: SMPC CONTACT: GREG GERWIN

ADDRESS: 115 AMHERST DR. SE PHONE: 255-8668

SURVEYOR: JEFF MORTENSEN CONTACT: \_\_\_\_\_

ADDRESS: 6010-B MIDWAY PARK BLVD. N.E. PHONE: 345-4250

CONTRACTOR: NOT KNOWN CONTACT: \_\_\_\_\_

ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_

**TYPE OF SUBMITTAL:**

- DRAINAGE REPORT
- DRAINAGE PLAN
- CONCEPTUAL GRADING & DRAINAGE PLAN
- GRADING PLAN
- EROSION CONTROL PLAN
- ENGINEER'S CERTIFICATION
- OTHER

**CHECK TYPE OF APPROVAL SOUGHT:**

- SKETCH PLAT APPROVAL
- PRELIMINARY PLAT APPROVAL
- S. DEV. PLAN FOR SUB'D. APPROVAL
- S .DEV. PLAN FOR BLDG. PRMT. APPROVAL
- SECTOR PLAN APPROVAL
- FINAL PLAT APPROVAL
- FOUNDATION PERMIT APPROVAL
- BUILDING PERMIT APPROVAL
- CERTIFICATE OF OCCUPANCY APPROVAL
- GRADING PERMIT APPROVAL
- PAVING PERMIT APPROVAL
- S.A.D. DRAINAGE REPORT
- DRAINAGE REQUIREMENTS
- OTHER \_\_\_\_\_ (SPECIFY)

**PRE-DESIGN MEETING:**

- YES
- NO
- COPY PROVIDED

DATE SUBMITTED: NOVEMBER 14, 1994

BY: Joe P Kelley P.E.

RECEIVED  
NOV 17 1994



# *City of Albuquerque*

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

September 9, 1994

Michele F. Delilla  
Jeff Mortensen & Assoc.  
6010-B Midway Park Blvd NE  
Albuquerque, N.M. 87109

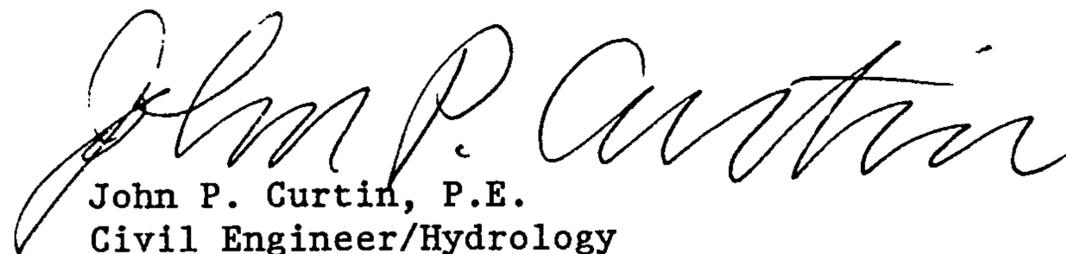
RE: MASTER G&D PLAN FOR DURANES ELEMENTARY (H-12/D6)  
RECEIVED AUGUST 19, 1994 FOR DRAINAGE REQUIREMENTS  
ENGINEER'S STAMP DATED 08-18-94

Dear Mr. Delilla:

Based on the information included in the submittal referenced above, City Hydrology accepts the Drainage Concept of this project.

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

Sincerely,

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

WPHYD/8799/jpc

c: Andrew Garcia

Elementary School

H12/86

PROJECT TITLE: Duranes Master Drainage Plan ZONE ATLAS/DRNG. FILE #: ~~10403~~

DRB #: \_\_\_\_\_ EPC #: \_\_\_\_\_ WORK ORDER #: \_\_\_\_\_

LEGAL DESCRIPTION: Portion of Duranes Elementary School Lands of APS

CITY ADDRESS: 2436 Zickert Rd. N.W.

ENGINEERING FIRM: Jeff Mortensen & Assoc. Inc. CONTACT: Michele (Mike) F. DeLilla

ADDRESS: 6010-B Midway Park Blvd NE PHONE: 345-4250

OWNER: APS CONTACT: Myron Johnson

ADDRESS: P.O. Box 25704 PHONE: 242-5865

ARCHITECT: S.M. PC Architects CONTACT: Greg Gerwin

ADDRESS: 115 Amherst Drive SE PHONE: 255-8668

SURVEYOR: Jeff Mortensen & Assoc. Inc. CONTACT: Chuck Cala

ADDRESS: 6010-B Midway Park Blvd NE PHONE: 345-4250

CONTRACTOR: N/A CONTACT: \_\_\_\_\_

ADDRESS: \_\_\_\_\_ PHONE: \_\_\_\_\_

TYPE OF SUBMITTAL:

DRAINAGE REPORT

DRAINAGE PLAN (Master)

CONCEPTUAL GRADING & DRAINAGE PLAN

GRADING PLAN (Master)

EROSION CONTROL PLAN

ENGINEER'S CERTIFICATION

OTHER

CHECK TYPE OF APPROVAL SOUGHT:

SKETCH PLAT APPROVAL

PRELIMINARY PLAT APPROVAL

S. DEV. PLAN FOR SUB'D. APPROVAL

S. DEV. PLAN FOR BLDG. PERMIT APPROVAL

SECTOR PLAN APPROVAL

FINAL PLAT APPROVAL

FOUNDATION PERMIT APPROVAL

BUILDING PERMIT APPROVAL

CERTIFICATE OF OCCUPANCY APPROVAL

GRADING PERMIT APPROVAL

PAVING PERMIT APPROVAL

S.A.D. DRAINAGE REPORT

DRAINAGE REQUIREMENTS

OTHER \_\_\_\_\_ (SPECIFY)

PRE-DESIGN MEETING:

~~YES~~

NO

~~COPY PROVIDED~~

DATE SUBMITTED: 8/19/94

BY: Michele (Mike) F. DeLilla

Recv. 8-19-94

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