

CITY OF ALBUQUERQUE



January 19, 2011

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

**Re: Lavaland Elementary School Restroom Portable, 501 57th St NW,
(J-11/D018)**

Engineer's Stamp Date: 08/05/2010

Certification Date: 01-18-11

Dear Mr. Mortensen,

PO Box 1293

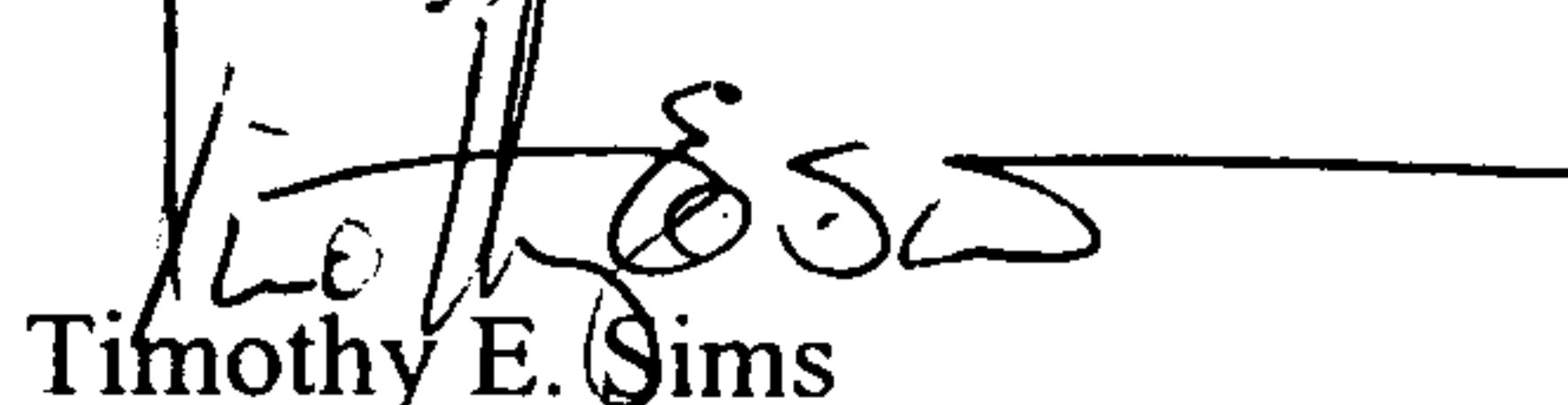
Thank you for providing an Engineer Certification for the Grading/Drainage Plan received on 1-19-11, for the above referenced plan. This information will be placed in the project file.

Albuquerque

If you have any questions, I can be contacted at 924-3982.

NM 87103

Sincerely,



Timothy E. Sims

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

www.cabq.gov

C: file

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: LAVALAND ES RESTROOM PORTABLE ZONE ATLAS/DRNG. FILE #:J11 D018
 DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: LAVALAND ELEMENTARY SCHOOL
 CITY ADDRESS: 501 57TH STREET NW

ENGINEERING FIRM: HIGH MESA CONSULTING GROUP 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 CONTACT: SAL WAR
 ADDRESS: 915 OAK SE PHONE: 975-5965
 CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87106

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

SURVEYOR: HIGH MESA CONSULTING GROUP (NMPS 11184) CONTACT: CHARLES G. CALA, JR
 ADDRESS: 6010-B MIDWAY PARK BLVD. NE PHONE: (505) 345-4250
 CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87109

CONTRACTOR: ANCHOR BUILT CONTACT: RAY ZAMORA
 ADDRESS: _____ PHONE: 505-259-3259
 CITY, STATE: _____ ZIP CODE: _____

TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
☐ DRAINAGE PLAN 1st 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 - UPDATED PLAN FOR FILES

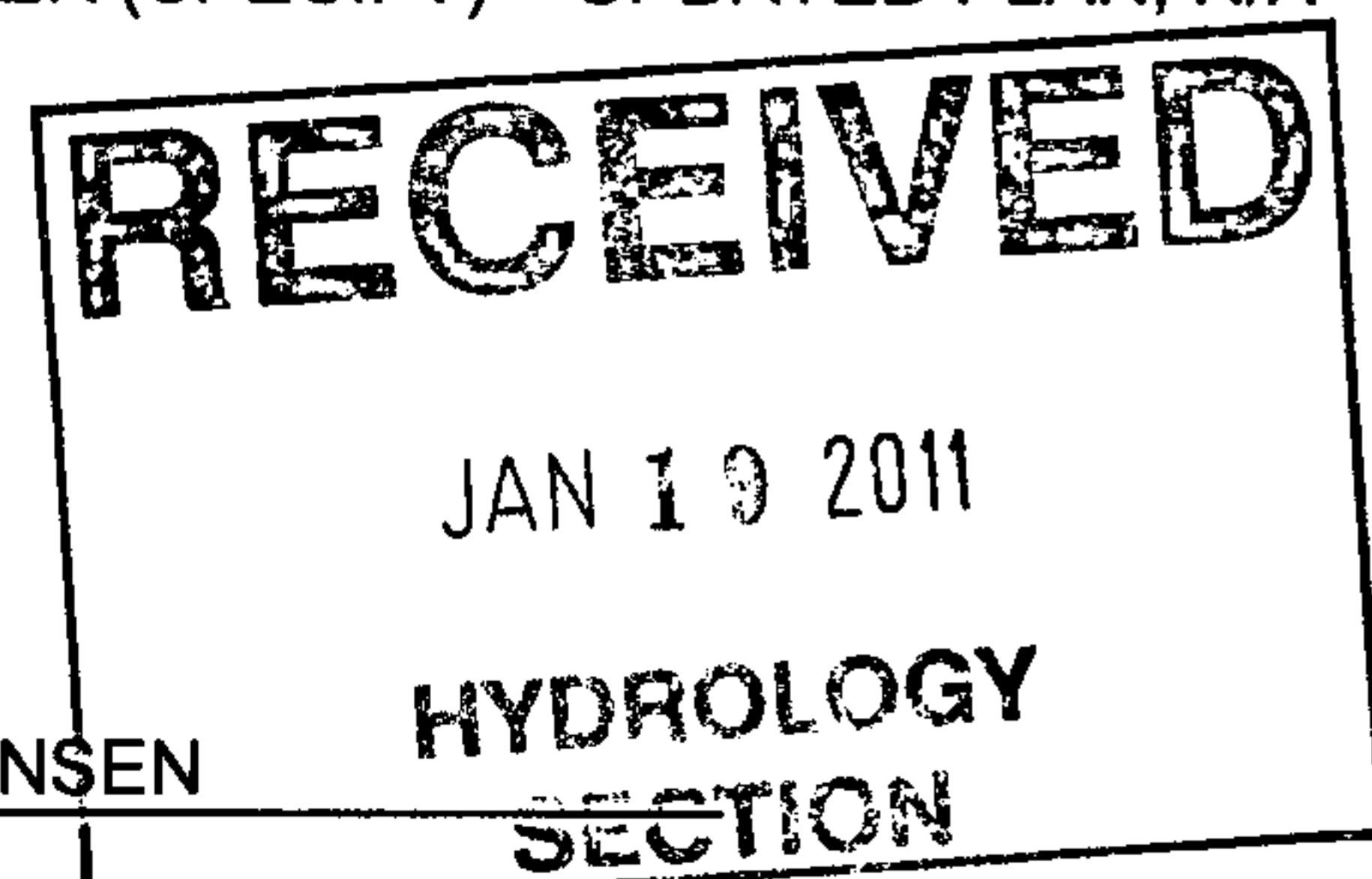
CHECK TYPE OF APPROVAL SOUGHT:

- ☐ 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) – UPDATED PLAN; N/A

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☐ YES
☒ NO
☐ COPY PROVIDED

DATE SUBMITTED: 01/19/2011 BY: JEFFREY G. MORTENSEN
 XC: SAL WAR W/ MYLAR COPIES



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.



ENGINEERS & SURVEYORS

JEFF MORTENSEN & ASSOCIATES, INC.
6010-B MIDWAY PARK BLVD. NE
ALBUQUERQUE NEW MEXICO 87109

P: 505.345.4250
F: 505.345.4254
ESTABLISHED 1977

2004.185.4

March 03, 2006

Ms. Kristal Metro, P.E., Senior Engineer
Hydrology Development Section
Development & Building Services Division
City of Albuquerque
P.O. Box 1293
Albuquerque, NM 87103

Re: Lavaland Elementary School Playground
501 57th Street SW
(Hydrology File No. J11/D18)

Dear Kristal:

We are in receipt of the approval letter for Paving and Grading Permits for the above referenced project. We notice that you referenced the requirement for an NPDES Permit. Our calculations, verified by the Contractor, indicate that the disturbed portions of the site are less than one acre. We therefore believe that the EPA permit is not applicable to this project site. If you have information that contradicts this understanding, please contact this office immediately so that the differences can be productively resolved.

If you should have any questions or comments concerning this correspondence, or any other aspect of this project, please do not hesitate to call.

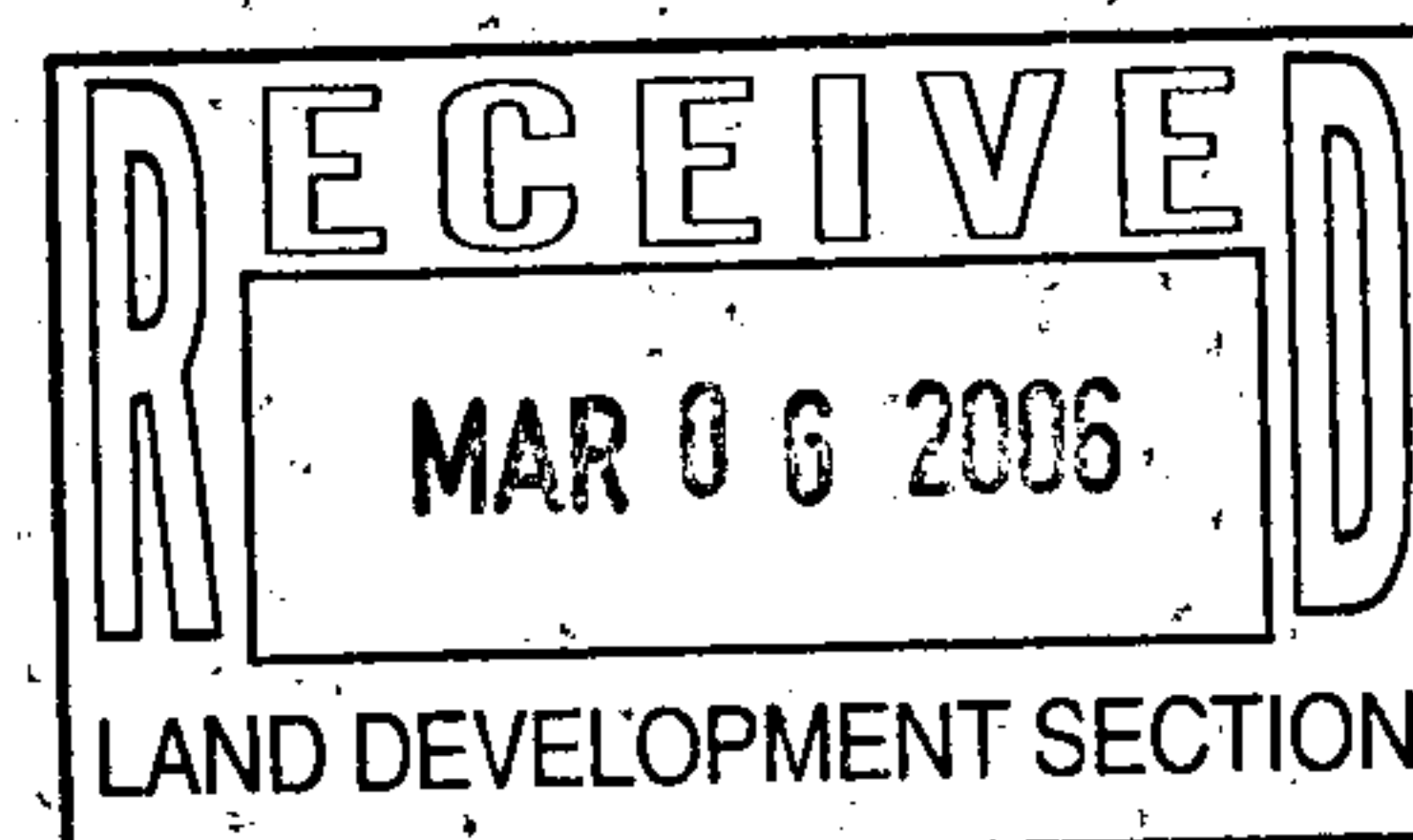
Sincerely,

JEFF MORTENSEN & ASSOCIATES, INC.


Jeffrey G. Mortensen, P.E.
President

enclosures

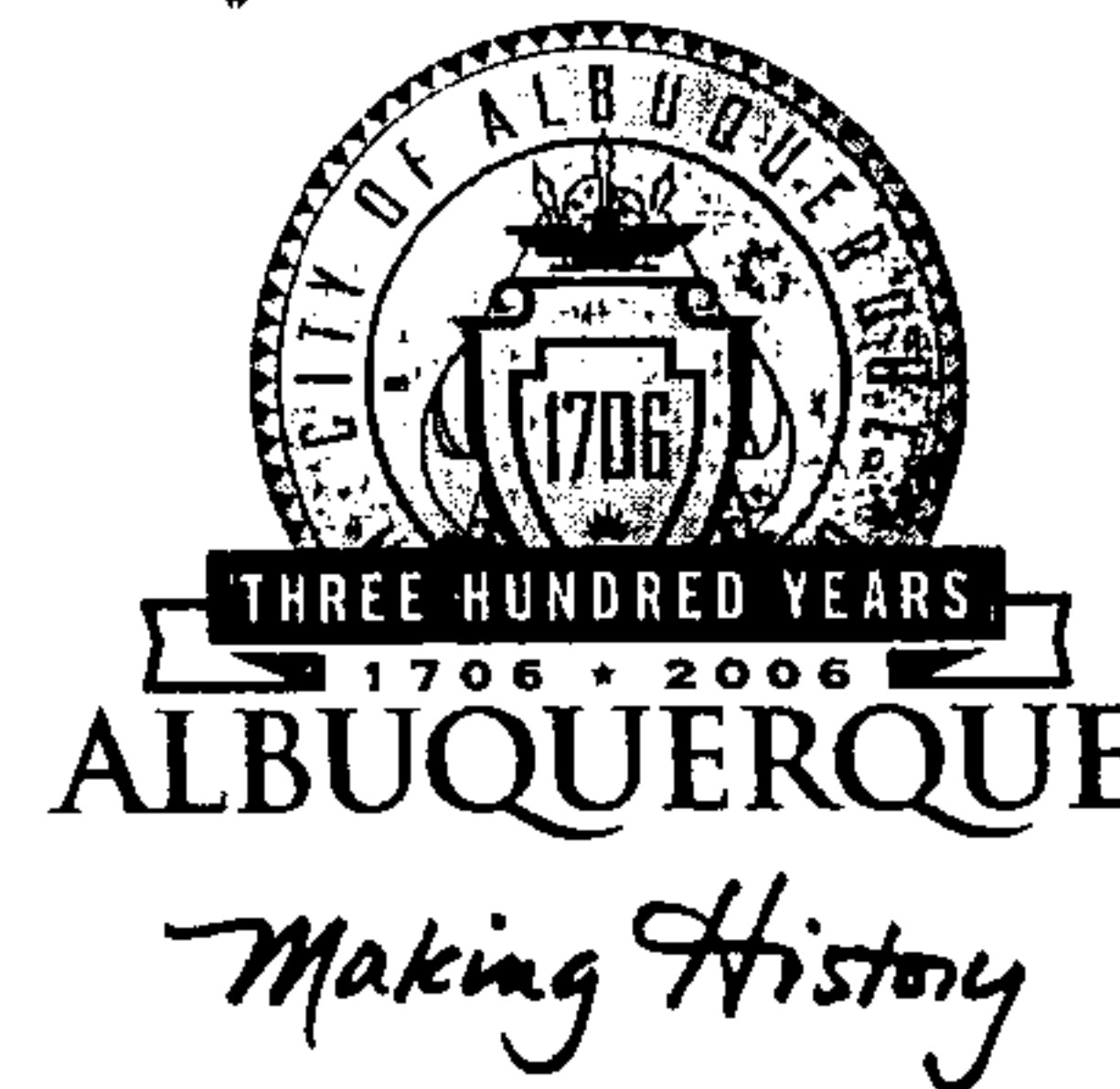
xc: David Ritchey w/ enclosure
Paul Fisher w/ enclosure
Chuck Caruso w. enclosure



PRINCIPALS	JEFFREY G. MORTENSEN, P.E.	JUAN M. CALA	CHARLES G. CALA, JR., P.S.
GRADY E. BARRENS	J. GRAEME MEANS, P.E.	RICHARD C. WHITE	JOSEPH M. SOLOMON, JR., P.S.

CITY OF ALBUQUERQUE

2004.185.4



March 1, 2006

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

**Re: Lavaland Elementary Playground, 501 57th Street NW, Grading and
Drainage Plan**

Engineer's Stamp dated 1-31-06 (J11-D18)

Dear Mr. Mortensen,

Based upon the information provided in your submittal received 2-01-06, the
above referenced plan is approved for Paving Permit and Grading Permit. Upon
completion of the project, please provide an Engineer Certification for our files.

P.O. Box 1293

This project requires a National Pollutant Discharge Elimination System (NPDES)
permit. If you have any questions regarding this permit please feel free to call the
DMD Storm Drainage Design section at 768-3654 (Charles Caruso).

Albuquerque

If you have any questions, you can contact me at 924-3981.

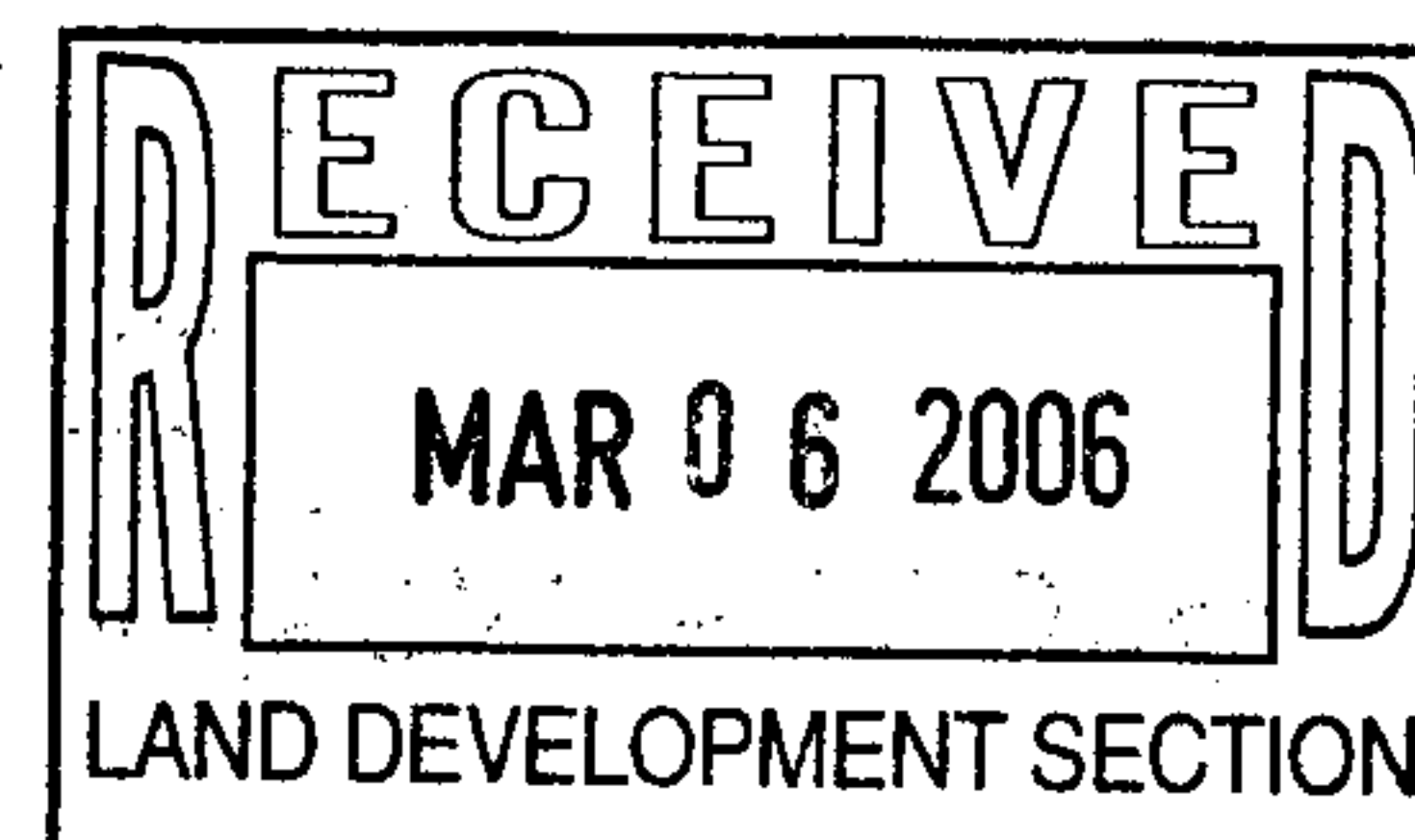
New Mexico 87103

Sincerely,

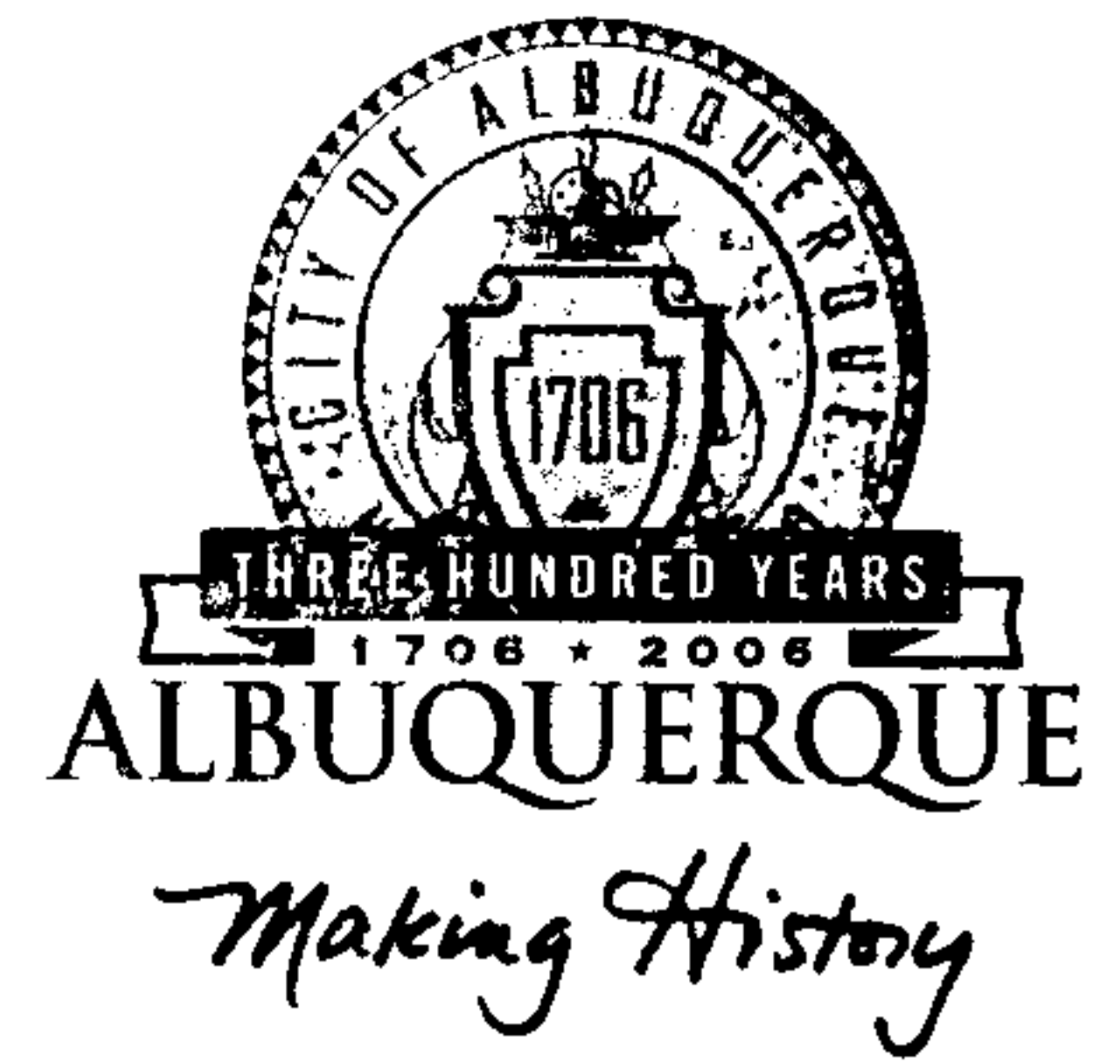
Kristal D. Metro, P.E.
Senior Engineer, Planning Dept.
Development and Building Services

www.cabq.gov

C: Charles Caruso, DMD Storm Drainage Design
file



CITY OF ALBUQUERQUE



March 1, 2006

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

**Re: Lavaland Elementary Playground, 501 57th Street NW, Grading and
Drainage Plan
Engineer's Stamp dated 1-31-06 (J11-D18)**

Dear Mr. Mortensen,

Based upon the information provided in your submittal received 2-01-06, the
above referenced plan is approved for Paving Permit and Grading Permit. Upon
completion of the project, please provide an Engineer Certification for our files.

P.O. Box 1293

Albuquerque

~~This project requires a National Pollutant Discharge Elimination System (NPDES) permit. If you have any questions regarding this permit please feel free to call the DMD Storm Drainage Design section at 768-3654 (Charles Caruso).~~ **NOT REU -KOM**

If you have any questions, you can contact me at 924-3981.

New Mexico 87103

Sincerely,

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

www.cabq.gov

C: Charles Caruso, DMD Storm Drainage Design
file

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: LAVALAND ELEMENTARY PLAYGROUND ZONE ATLAS/DRNG. FILE #: J11 D18
 DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: LAVALAND ELEMENTARY SCHOOL
 CITY ADDRESS: 501 57TH STREET NW, 87105

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, DEPT FDC CONTACT: DAVID RITCHEY
 ADDRESS: 915 OAK STREET, SE PHONE: 848-8876
 CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87106

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

SURVEYOR: 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

CONTRACTOR: UNIVERSAL CONSTRUCTORS CONTACT: PAUL FISHER
 ADDRESS: 3825 ACADEMY PARKWAY NORTH, NE PHONE: 884-0400
 CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87109

TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
☒ DRAINAGE PLAN 1ST 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 -

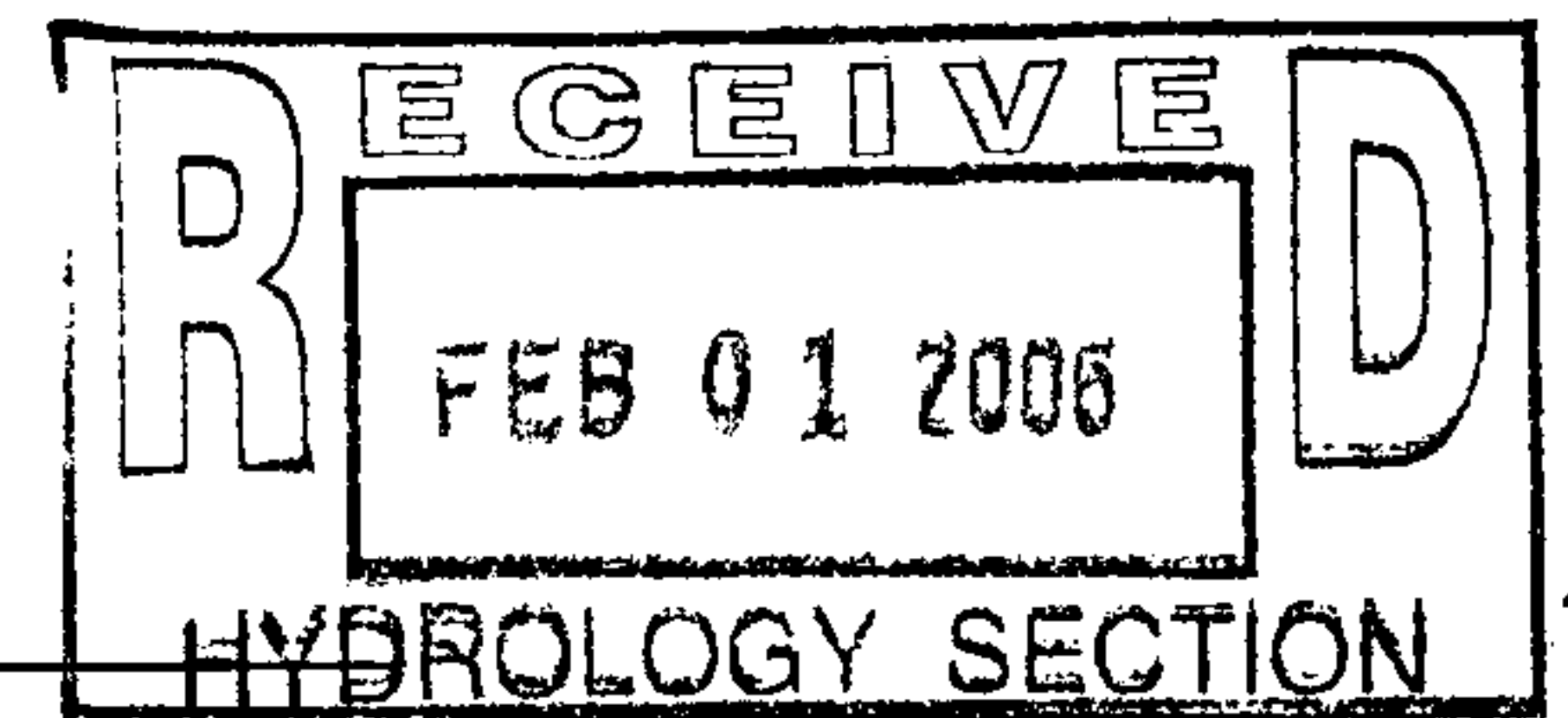
CHECK TYPE OF APPROVAL SOUGHT:

- ☐ 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)

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☒ YES
☐ NO
☒ COPY PROVIDED

DATE SUBMITTED: 02/01/2006 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.

2004.185.4

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

CONFERENCE RECAP

DRAINAGE FILE/ZONE ATLAS PAGE NUMBER: J 11/D 18 DATE: 08-23-2005

CROSS REFERENCE NUMBERS: EPC _____ DRB _____ DRC _____

SUBJECT: LAVALAND ELEMENTARY SCHOOL

STREET ADDRESS: 501 57TH STREET NW

SUBDIVISION NAME: LAVALAND ELEMENTARY SCHOOL

TYPE OF APPROVAL

____ PRELIMINARY PLAT; ____ FINAL PLAT; ____ ROUGH GRADING
____ SITE DEVELOPMENT PLAN FOR SUBDIVISION; X BUILDING PERMIT;
X GRADING PERMIT; ____ PAVING PERMIT

ATTENDEE:

FRED J. AGUIRRE

BRAD BINGHAM

ORGANIZATION:

JMA

HYDROLOGY

PHONE:

345-4250

924-3986

FINDINGS:

1. AN APPROVED DRAINAGE PLAN PER THE DPM WILL BE REQUIRED AS CONDITION OF BUILDING PERMIT, GRADING PERMIT AND PAVING PERMIT APPROVAL.
2. THE PONDING CONCEPT PREVIOUSLY APPROVED AND ON FILE WITH HYDROLOGY WILL REMAIN IN EFFECT WITH THE EXCEPTION OF UP SIZING THE 8" PVC PIPE TO A 12" PVC PIPE WITHIN BASIN A. THE RATIONALE BEHIND THE UP SIZING IS TO IMPROVE THE FLOW CONDITIONS OF THE PIPE IN ORDER TO ELIMINATE THE STANDING WATER IN THE PLAYGROUND WHICH IS AN UNDESIRABLE CONDITION FOR THE SCHOOL KIDS.
3. A VARIANCE IS GRANTED TO STANDARD DRAWING 2237 WHICH LIMITS THE DRAIN PIPE TO BE NO LARGER THAN ONE PIPE SIZE SMALLER THAN THE OUTLET PIPE. THIS VARIANCE WILL PERMIT THE UP SIZING OF THE EXISTING 8" DRAIN LINE TO A 12" DRAIN LINE.
4. ~~AM~~ SO #19 PERMIT WILL BE REQUIRED TO UP SIZE THE EXISTING 8" PVC PIPE DISCHARGING INTO THE CATCH BASIN LOCATED AT THE NORTH EAST CORNER OF 58TH STREET AND DONA ANA PLACE NW.

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 J. Bingham
TITLE: City Hydrologist
DATE: 8/23/05

SIGNED: Fred J. Aguirre
TITLE: _____
DATE: 8-23-05

NOTE: PLEASE PROVIDE A COPY OF THIS RECAP WITH THE DRAINAGE SUBMITTAL

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

CONFERENCE RECAP

File

DRAINAGE FILE/ZONE ATLAS PAGE NUMBER: J 11/D 18 DATE: 08-23-2005

CROSS REFERENCE NUMBERS: EPC DRB DRC

SUBJECT: LAVALAND ELEMENTARY SCHOOL

STREET ADDRESS: 501 57TH STREET NW

SUBDIVISION NAME: LAVALAND ELEMENTARY SCHOOL

TYPE OF APPROVAL

PRELIMINARY PLAT; FINAL PLAT; ROUGH GRADING
 SITE DEVELOPMENT PLAN FOR SUBDIVISION; X BUILDING PERMIT;
X GRADING PERMIT; PAVING PERMIT

ATTENDEE:

FRED J. AGUIRRE

BRAD BINGHAM

ORGANIZATION:

JMA

HYDROLOGY

PHONE:

345-4250

924-3986

FINDINGS:

1. AN APPROVED DRAINAGE PLAN PER THE DPM WILL BE REQUIRED AS CONDITION OF BUILDING PERMIT, GRADING PERMIT AND PAVING PERMIT APPROVAL.
2. THE PONDING CONCEPT PREVIOUSLY APPROVED AND ON FILE WITH HYDROLOGY WILL REMAIN IN EFFECT WITH THE EXCEPTION OF UP SIZING THE 8" PVC PIPE TO A 12" PVC PIPE WITHIN BASIN A. THE RATIONALE BEHIND THE UP SIZING IS TO IMPROVE THE FLOW CONDITIONS OF THE PIPE IN ORDER TO ELIMINATE THE STANDING WATER IN THE PLAYGROUND WHICH IS AN UNDESIRABLE CONDITION FOR THE SCHOOL KIDS.
3. A VARIANCE IS GRANTED TO STANDARD DRAWING 2237 WHICH LIMITS THE DRAIN PIPE TO BE NO LARGER THAN ONE PIPE SIZE SMALLER THAN THE OUTLET PIPE. THIS VARIANCE WILL PERMIT THE UP SIZING OF THE EXISTING 8" DRAIN LINE TO A 12" DRAIN LINE.
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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 J. Bingham

TITLE:

City Hydrologist

DATE:

8/23/05

SIGNED:

Fred J. Aguirre

TITLE:

DATE:

8-23-05

NOTE: PLEASE PROVIDE A COPY OF THIS RECAP WITH THE DRAINAGE SUBMITTAL

file

DEVELOPMENT & BUILDING SERVICE CENTER
ONE STOP SHOP
600 SECOND ST. N.W.

ATTENTION: _____
505-924-3900

Records Withdrawal Form

Project No. J11/D18-E J21/D35 Date: 05-13-2005

Project Title: LAVAKLAND & ACOMA ELEMENTARY

- ☒ a. File b. Mylars c. Redlines/Comments
d. Other _____

Requested by: JEFF MORTENSEN, JMA Phone No.: 345-4250
Name and Company

Comments: THANK YOU BRND!

Anticipated Return Date: 05-17-2005

I hereby accept full responsibility for the security of the above noted records/plans until return receipt acknowledgement is completed. Records/plans will be returned to the Development and Building Services Center on or before the indicted anticipated return date.

Delivery Picked Up By:

Name: JEFF MORTENSEN Organization: JMA
Print

Signed: [Signature] Date: 05-13-2005

Office Use Only

Return Acknowledged:

Received By: BZB Date: 5/18/05
Print

Returned files



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

April 21, 1993

Victor Chavez
Chavez-Grieves Engineering
4600 Montgomery NE Bldg.C #101
Albuquerque, NM 87109

RE: ENGINEER CERTIFICATION FOR LAVALAND ELEMENTARY SCHOOL (J11-D18)
ENGINEER CERTIFICATION STATEMENT DATED 4/14/93.

Dear Mr. Chavez:

Based on the information provided on your April 15, 1993 resubmittal, Engineer Certification for the above referenced site is acceptable.

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

Sincerely,

Bernie J. Montoya, CE
Engineer Associate

BJM/d1/WPHYD/7530

xc: Alan Martinez

File

PUBLIC WORKS DEPARTMENT

CITY OF ALBUQUERQUE
P.O. BOX 1293
ALBUQUERQUE, NEW MEXICO 87103

PUBLIC WORKS DEPARTMENT

TELECOPIER COVER SHEET

TO: VICTOR CHAVEZ

LOCATION: CITY / STATE

FAX NUMBER: 505/883 7119

PAGES (INCLUDING FAX SHEET): 2

FROM: BERNIE J. MONTORA

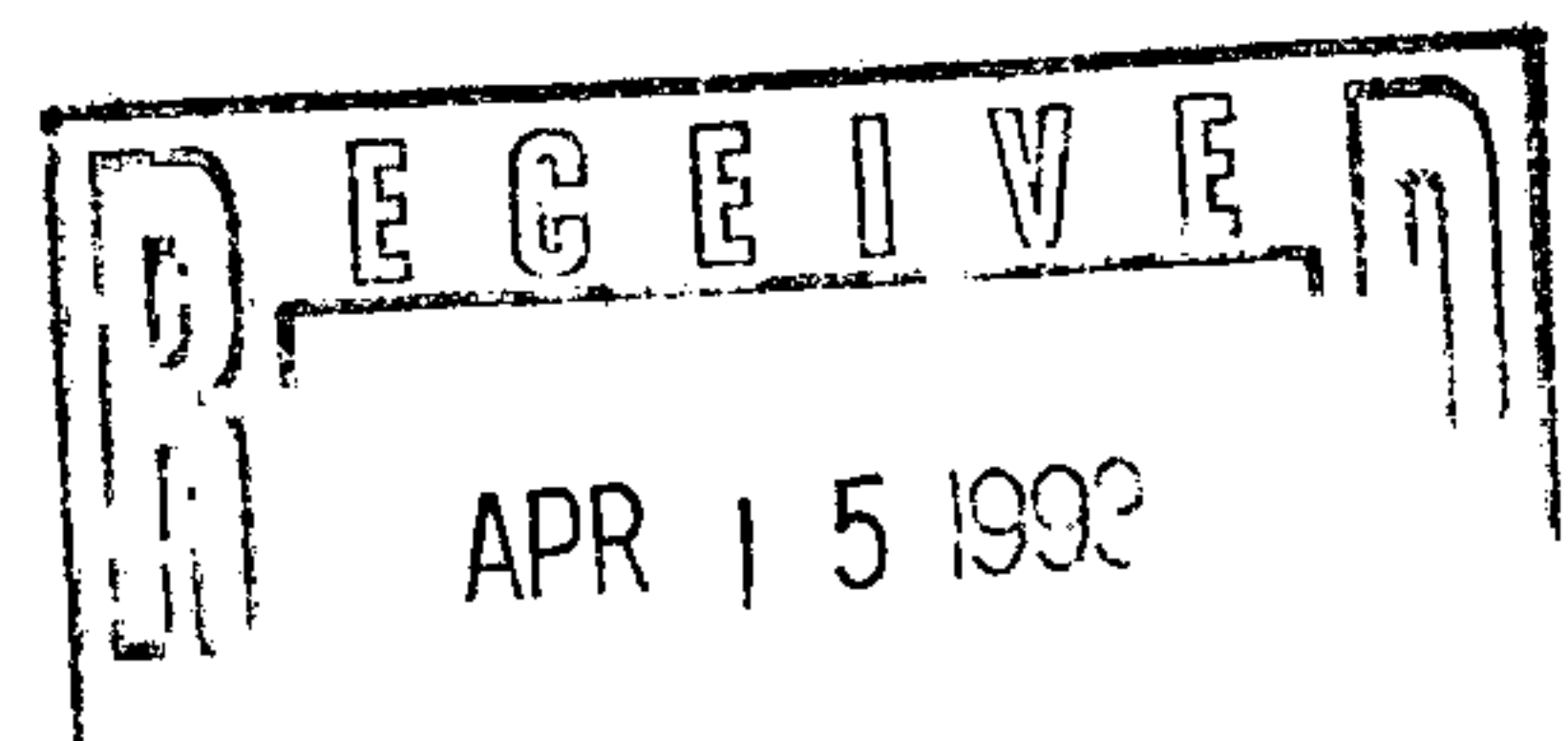
LOCATION: CITY OF ALBUQUERQUE

FAX NUMBER: 505/768/3629

DATE AND TIME: 2/24/93 , 8:30 AM.

ACTIVITY NUMBER: 5831000
(This is necessary for billing purposes)

WPADM1:163





City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

February 24, 1993

Victor Chavez
Chavez-Grieves Consulting Engineers
4600-C Montgomery Blvd. NE
Albuquerque, NM 87109

RE: CERTIFICATION FOR LAVALAND ELEMENTARY SCHOOL ((J11-D18))

Dear Mr. Chavez:

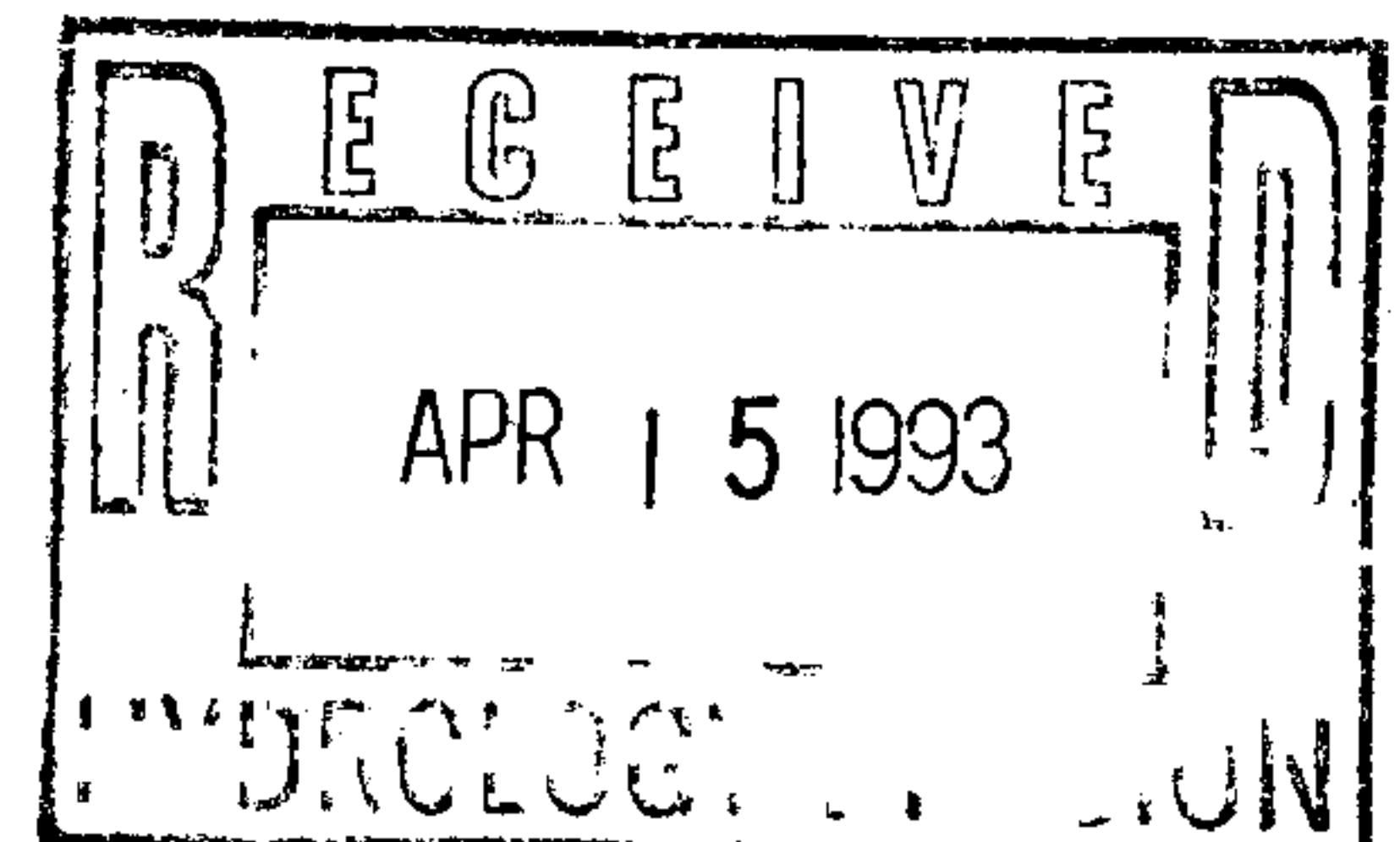
I am in receipt of your letter dated February 23, 1993. In response I provide the following:

1. The reason for the sidewalk culvert within Basin B is to drain any water within the small ponding area. Without the sidewalk culvert it is acting as a retention pond which are no longer allowed. Also, run-off is not allowed to drain over and across a public sidewalk.
2. All as-built information must be included on the revised Engineer's Certification.
3. I understand that the maintenance responsibility lies on A.P.S., but we must address the fact that erosion has already taken place and must be dealt with prior to final Certification.
4. I recommend that you contact A.P.S. and advise them that the above listed items must be addressed and corrected prior to resubmittal of the revised Engineer's Certification for issuance of the Certificate of Occupancy.

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

Sincerely,

Bernie J. Montoya
Bernie J. Montoya, CE
Engineering Assistant



BJM/d1/WPHYD/7530

xc: File

PUBLIC WORKS DEPARTMENT

DRAINAGE INFORMATION SHEET

PROJECT TITLE: LAVALAND ELEM SCHOOL ZONE ATLAS/DRNG.FILE #: J-11-Z/D18

LEGAL DESCRIPTION: A CERTAIN TRACT OF LAND BEING ALL OF LOTS NUMBERED (13) THRU (22) INCLUDING NORTHERLY LOTS (12) THRU (23). BLOCK L WITH LOTS (11) THRU (18) INCLUDING NORTHERLY LOTS (10) THRU (19). IN ADDITION, TRACTS 106, 107 AND 108 AS SHOWN IN THE FILE OF THE COUNTY CLERKS OFFICE OF BERNALILLO COUNTY, IN BOOK 232, PAGE 190.

CITY ADDRESS: 501 57th NW 87105

ENGINEERING FIRM: Chavez Grievos

CONTACT: Larry Read

ADDRESS: 4100 C Montgomery NE

PHONE: 881-7376

OWNER: APS

CONTACT: _____

ADDRESS: ABQ., NM

PHONE: _____

ARCHITECT: Barker MacFarlane

CONTACT: _____

ADDRESS: 209 Gold Ave SW 87102

PHONE: _____

SURVEYOR: APS

CONTACT: _____

ADDRESS: _____

PHONE: _____

CONTRACTOR:

CONTACT: _____

ADDRESS: _____

PHONE: _____

PRE-DESIGN MEETING:

 YES

 NO

 COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB NO. _____

EPC NO. _____

PROJ. NO. _____

TYPE OF SUBMITTAL:

 DRAINAGE REPORT

 DRAINAGE PLAN

 CONCEPTUAL GRADING & DRAINAGE PLAN

 GRADING PLAN

 EROSION CONTROL PLAN

 X ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

 SKETCH PLAT APPROVAL

 PRELIMINARY PLAT APPROVAL

 SITE DEVELOPMENT PLAN APPROVAL

 FINAL PLAT APPROVAL

 BUILDING PERMIT APPROVAL

 FOUNDATION PERMIT APPROVAL

 X CERTIFICATE OF OCCUPANCY APPROVAL

 ROUGH GRADING PERMIT APPROVAL

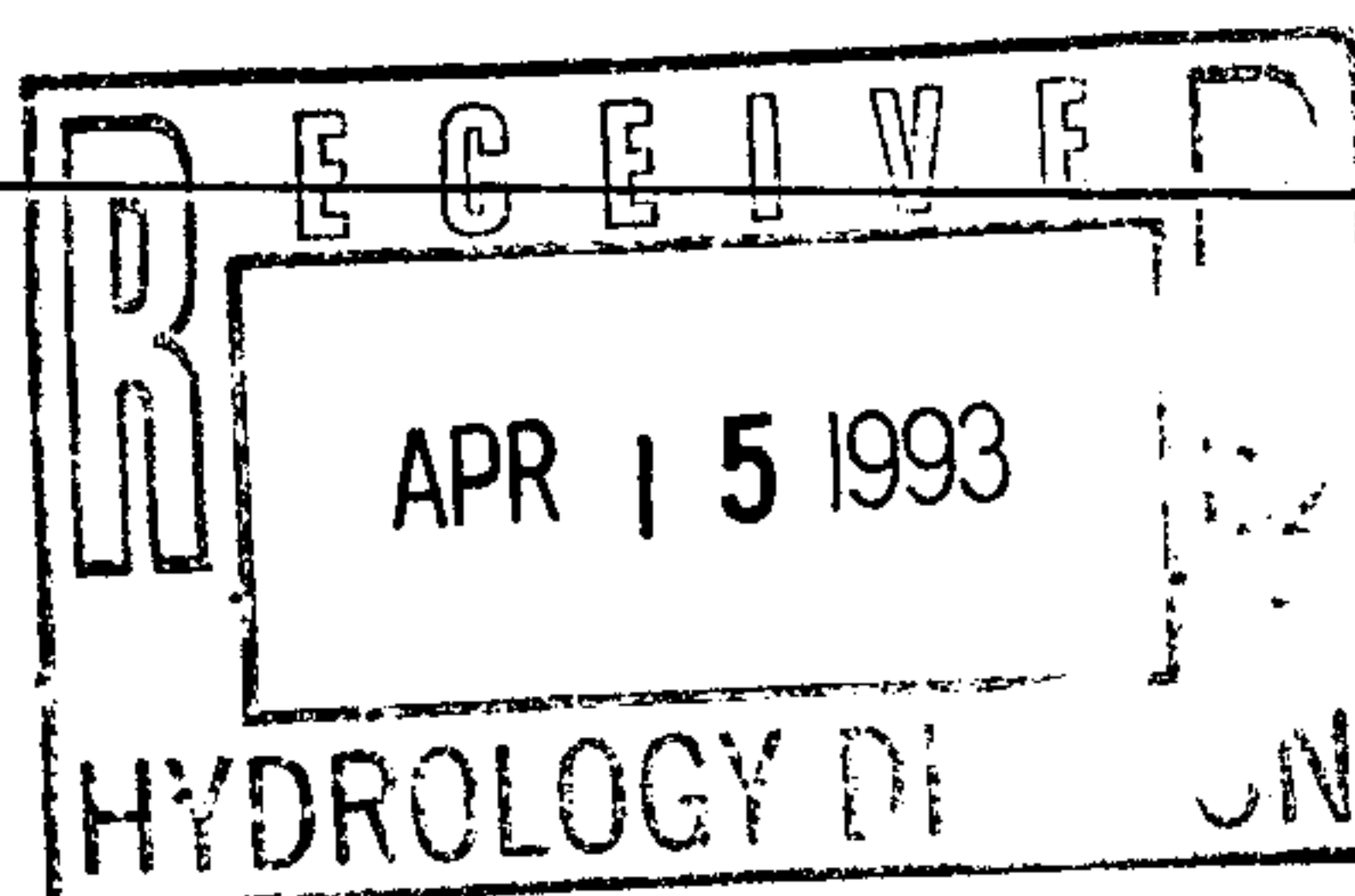
 GRADING/PAVING PERMIT APPROVAL

 OTHER _____

(SPECIFY)

DATE SUBMITTED: Larry Read

BY: 4-14-93





City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

February 24, 1993

Victor Chavez
Chavez-Grievess Consulting Engineers
4600-C Montgomery Blvd. NE
Albuquerque, NM 87109

RE: CERTIFICATION FOR LAVALAND ELEMENTARY SCHOOL ((J11-D18))

Dear Mr. Chavez:

I am in receipt of your letter dated February 23, 1993. In response I provide the following:

1. The reason for the sidewalk culvert within Basin B is to drain any water within the small ponding area. Without the sidewalk culvert it is acting as a retention pond which are no longer allowed. Also, run-off is not allowed to drain over and across a public sidewalk.
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3. I understand that the maintenance responsibility lies on A.P.S., but we must address the fact that erosion has already taken place and must be dealt with prior to final Certification.
4. I recommend that you contact A.P.S. and advise them that the above listed items must be addressed and corrected prior to resubmittal of the revised Engineer's Certification for issuance of the Certificate of Occupancy.

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

Sincerely,

Bernie J. Montoya, CE
Engineering Assistant

BJM/d1/WPHYD/7530

xc: File

PUBLIC WORKS DEPARTMENT



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

November 5, 1991

Victor Chavez, P.E.
Chavez-Grieves Consulting Engineers
4600-C Montgomery Boulevard, NE
Albuquerque, New Mexico 87109

RE: LAVALAND ELEMENTARY, PHASE II ENGINEER'S STAMP DATED
OCTOBER 10, 1991; LETTERS DATED 7/31, 10/3, 10/10/91 (JE11/D18)

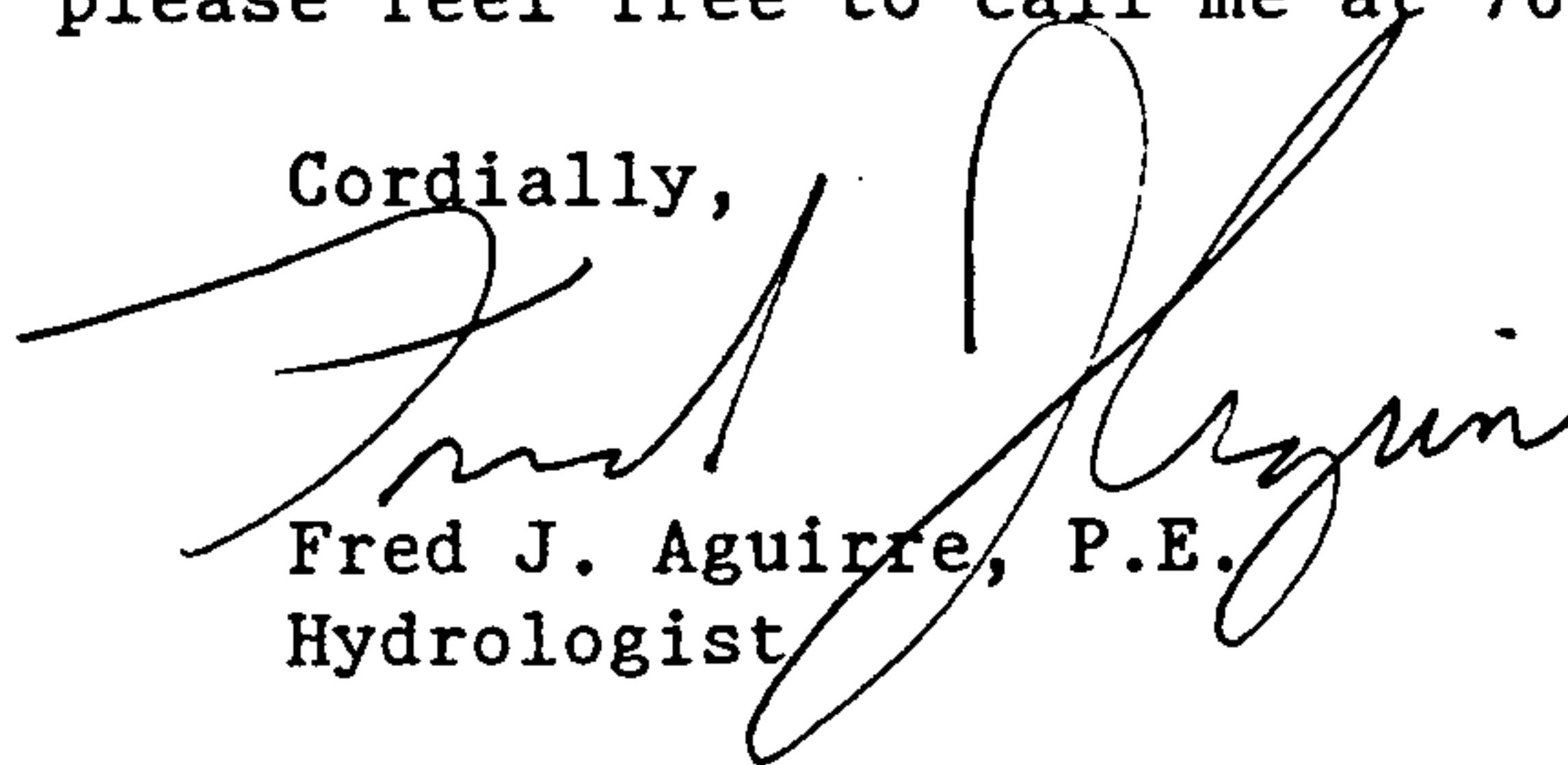
Dear Mr. Chavez:

The drainage plan for Phase II is approved for building permit. Certification by the Albuquerque Public School's engineer will be required for Certificate of Occupancy release.

Please advise your client that approved drainage reports/plans are in effect for one year. If a building permit has not been obtained within one year, a resubmittal may be required at the time of building permit request.

Should you have any questions, please feel free to call me at 768-2650.

Cordially,



Fred J. Aguirre, P.E.
Hydrologist

FJA/bsj
(WP+445)

PUBLIC WORKS DEPARTMENT

Walter H. Nickerson, Jr., P.E.
Assistant Director Public Works

ENGINEERING GROUP

Telephone (505) 768-2500

AN EQUAL OPPORTUNITY EMPLOYER

PROJECT TITLE: Lavaland ELEM School ZONE ATLAS/DRNG. FILE #: J-11-2

DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: LAVALAND Addition

CITY ADDRESS: _____

ENGINEERING FIRM: CHAVEZ/GRIEVES ENGRS CONTACT: V. Chavez
R. Gomez

ADDRESS: 4100 C Montgomery NE PHONE: 881-7376

OWNER: ALBUQUERQUE Public Schools CONTACT: _____

ADDRESS: ABQ, NM PHONE: _____

ARCHITECT: Barker McFarland CONTACT: _____

ADDRESS: _____ PHONE: _____

SURVEYOR: Western Land Surveying CONTACT: _____

ADDRESS: 208 3rd SW ABox PHONE: 873-1807

CONTRACTOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

OCT 15 1991

- ☐ 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. 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: 10/10/91

BY: Ramon Cas

PROJECT TITLE: Lavaland ELEM School ZONE ATLAS/DRNG. FILE #: J-11-2

DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: LAVALAND Addition

CITY ADDRESS: _____

ENGINEERING FIRM: CHAVEZ/GRIEVES ENGRS CONTACT: R. Gomez

ADDRESS: 4100 C Montgomery NE PHONE: 881-7376

OWNER: ALBUQUERQUE Public School CONTACT: _____

ADDRESS: ABQ, NM PHONE: _____

ARCHITECT: Barker McFarland CONTACT: _____

ADDRESS: _____ PHONE: _____

SURVEYOR: Western Land Surveying CONTACT: _____

ADDRESS: 200 3rd SW ABQ PHONE: 873-1807

CONTRACTOR: _____ 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: 10/10/91

BY: Ramon Cas

DRAINAGE INFORMATION SHEET

PROJECT TITLE: LAVALAND BLM. ZONE ATLAS/DRNG. FILE #: 5-11
DRB #: _____ EPC #: _____ WORK ORDER #: _____
LEGAL DESCRIPTION: _____
CITY ADDRESS: _____
ENGINEERING FIRM: CHAVEZ GRUBBS CONTACT: VICTOR CHAVEZ
RAY COMBES
ADDRESS: 4600 MONTGOMERY PHONE: 881-7376
OWNER: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
ARCHITECT: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
SURVEYOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CONTRACTOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

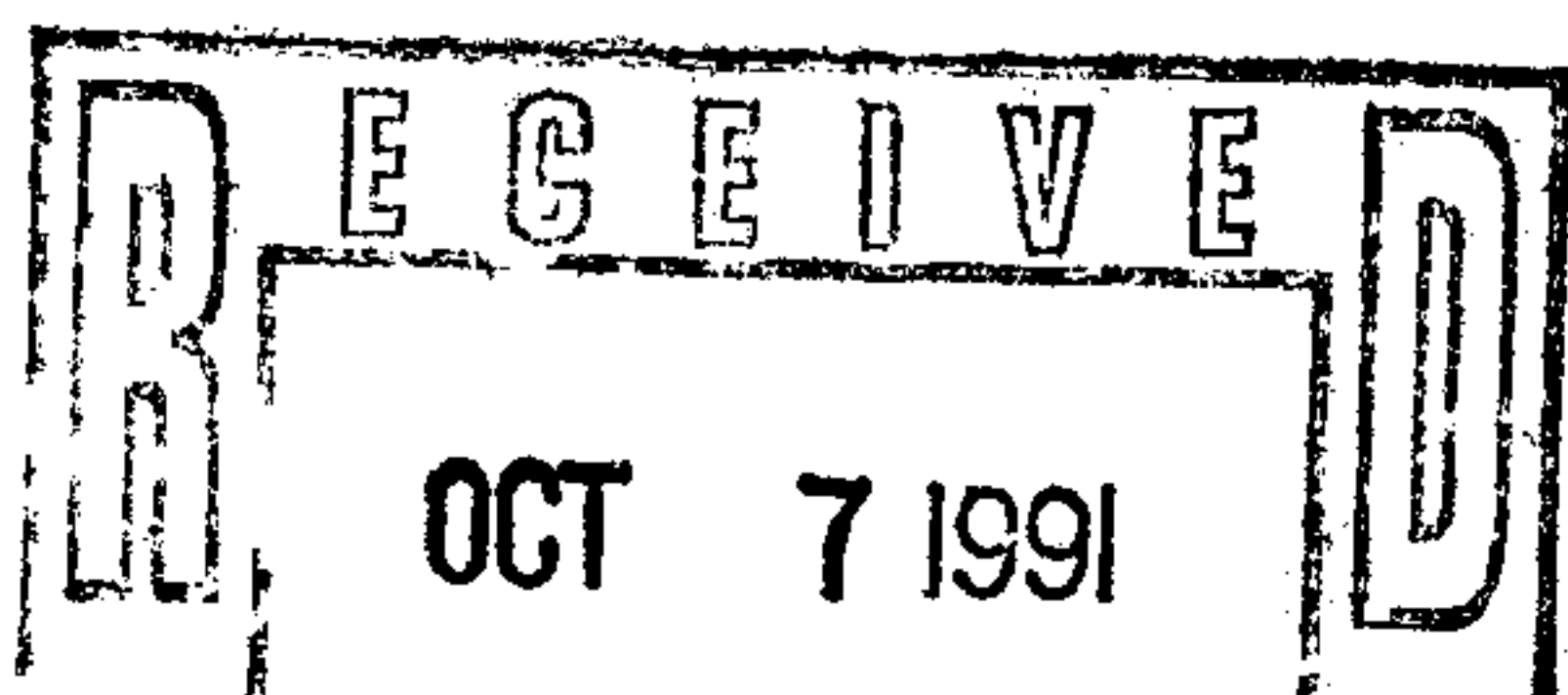
- ☒ DRAINAGE REPORT
☒ DRAINAGE PLAN
☐ CONCEPTUAL GRADING & DRAINAGE PLAN
☒ GRADING PLAN
☐ EROSION CONTROL PLAN
☐ ENGINEER'S CERTIFICATION
☐ OTHER

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: OCT 7 1991BY: RAY COMBES



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

October 16, 1991

Victor Chavez, P.E.
Chavez-Grieves Consulting Engineers
4600-C Montgomery Boulevard, NE
Albuquerque, New Mexico 87109

RE: DRAINAGE PLAN FOR LAVALAND ELEMENTARY (J-11/D18)
REVISION DATED OCTOBER 14, 1991

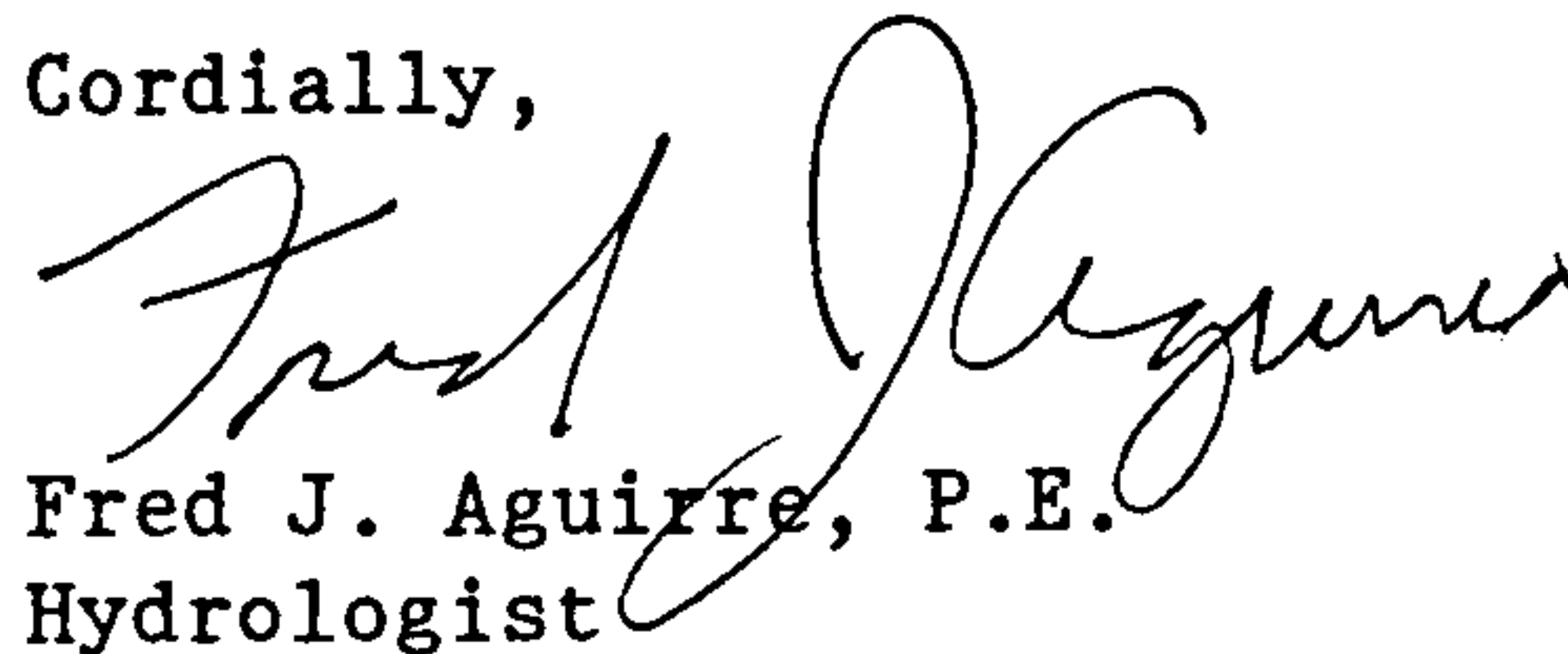
Dear Mr. Chavez:

The drainage plan received October 18, 1991, is approved for Building Permit release with the understanding that Albuquerque Public School's Engineer will certify the improvements on the plan as a condition of Certificate of Occupancy release. Additionally, please advise the contractor that upon completion of the S.O. #19 improvements within the City right-of-way, he will need to obtain approval from the Construction Section and obtain an excavation permit.

Regarding the catch basin in 58th Street, I have submitted your design plan to Glenn Jurgensen of Storm Drain Maintenance. Mr. Jurgensen will construct the catch basin at his earliest convenience. Please coordinate with him for your connection to this catch basin.

Should you have any questions, please feel free to call me at 768-2650.

Cordially,



Fred J. Aguirre, P.E.
Hydrologist

xc: Alan Martinez
Darlene Saavedra

BJM/bsj
(WP+445)

PUBLIC WORKS DEPARTMENT

Walter H. Nickerson, Jr., P.E.
Assistant Director Public Works

ENGINEERING GROUP

Telephone (505) 768-2500

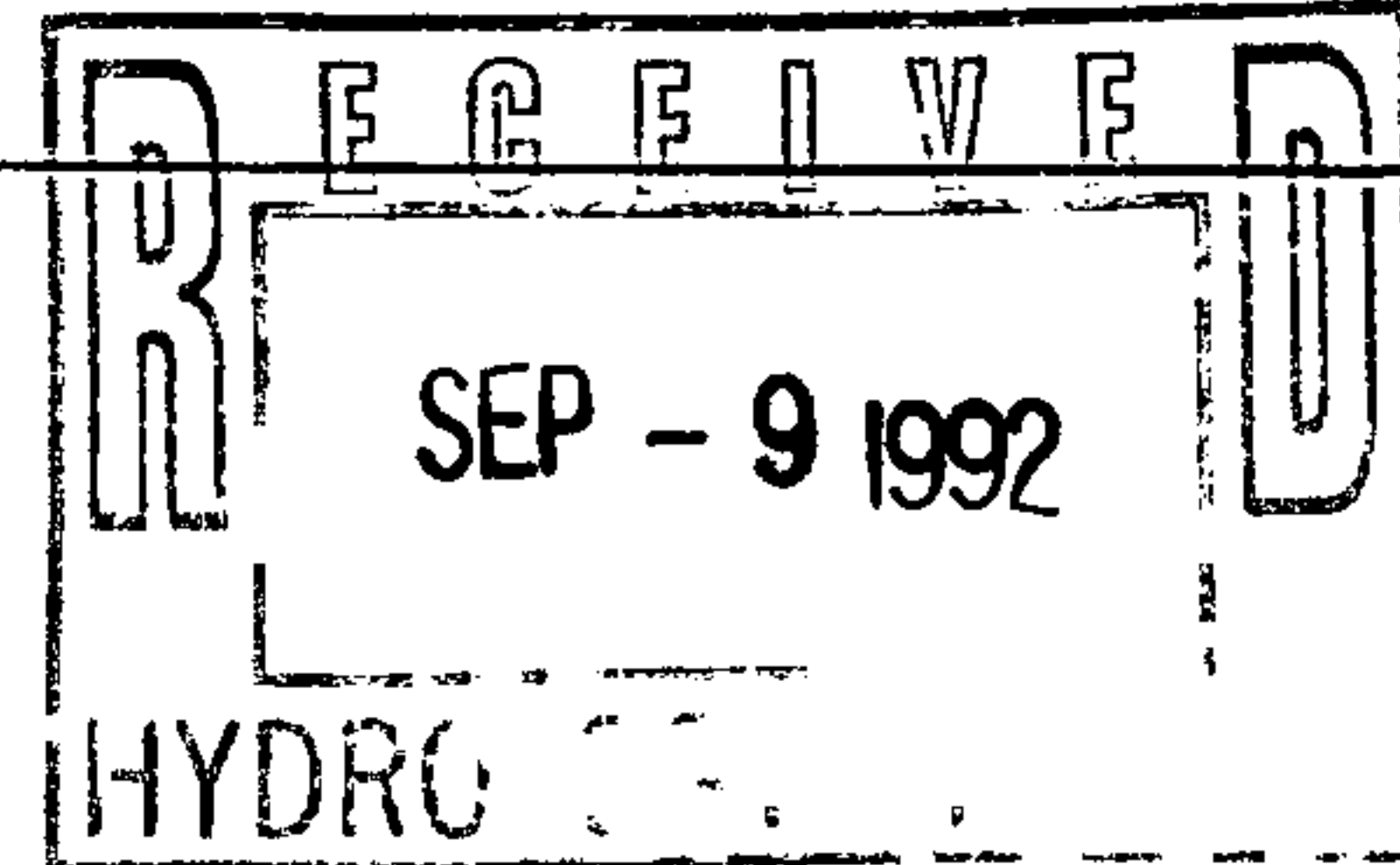
AN EQUAL OPPORTUNITY EMPLOYER



CHAVEZ-GRIEVES/CONSULTING ENGINEERS, INC.

4600 MONTGOMERY N.E., BUILDING C, #101
ALBUQUERQUE, NEW MEXICO 87109
(505) 881-7376 FAX (505) 883-7119

September 8, 1992



Mr. Bernie Montoya
City of Albuquerque
Public Works Department
Engineering Group/Hydrology Section
P.O. Box 1293
Albuquerque, New Mexico 87103

RE: LAVALAND ELEMENTARY CERTIFICATE OF OCCUPANCY APPROVAL

Dear Bernie:

Construction of the new school building at Lavaland Elementary is complete as well as the site improvements shown on the construction documents. There are still a few outstanding punch list items related to the site improvements and structural improvements which we are presently negotiating with the Contractor, APS, and the Architect in resolving.

In order to complete all outstanding punch list items, I am requesting a 30-day extension on the present temporary Certificate of Occupancy per our telephone conversation on September 3, 1992.

Should you have any further questions, please feel free to contact me at the above number.

Sincerely,

CHAVEZ-GRIEVES CONSULTING ENGINEERS, INC.


Ray Gomez

RG/cjm

DRAINAGE INFORMATION SHEET

PROJECT TITLE: LAYALAND ELEMENTARY ZONE ATLAS/DRNG.FILE #: J-11/D18

LEGAL DESCRIPTION: SEE AS-BUILT SHEET C-2 ATTACHED

CITY ADDRESS: 501 57th NW

ENGINEERING FIRM: CHAVEZ / GRIEVES

CONTACT: VIC CHAVEZ

ADDRESS: 4600 MONTGOMERY BLVD NE

PHONE: 881-7376

OWNER: _____

CONTACT: _____

ADDRESS: _____

PHONE: _____

ARCHITECT: _____

CONTACT: _____

ADDRESS: _____

PHONE: _____

SURVEYOR: _____

CONTACT: _____

ADDRESS: _____

PHONE: _____

CONTRACTOR: _____

CONTACT: _____

ADDRESS: _____

PHONE: _____

PRE-DESIGN MEETING:

☒ YES

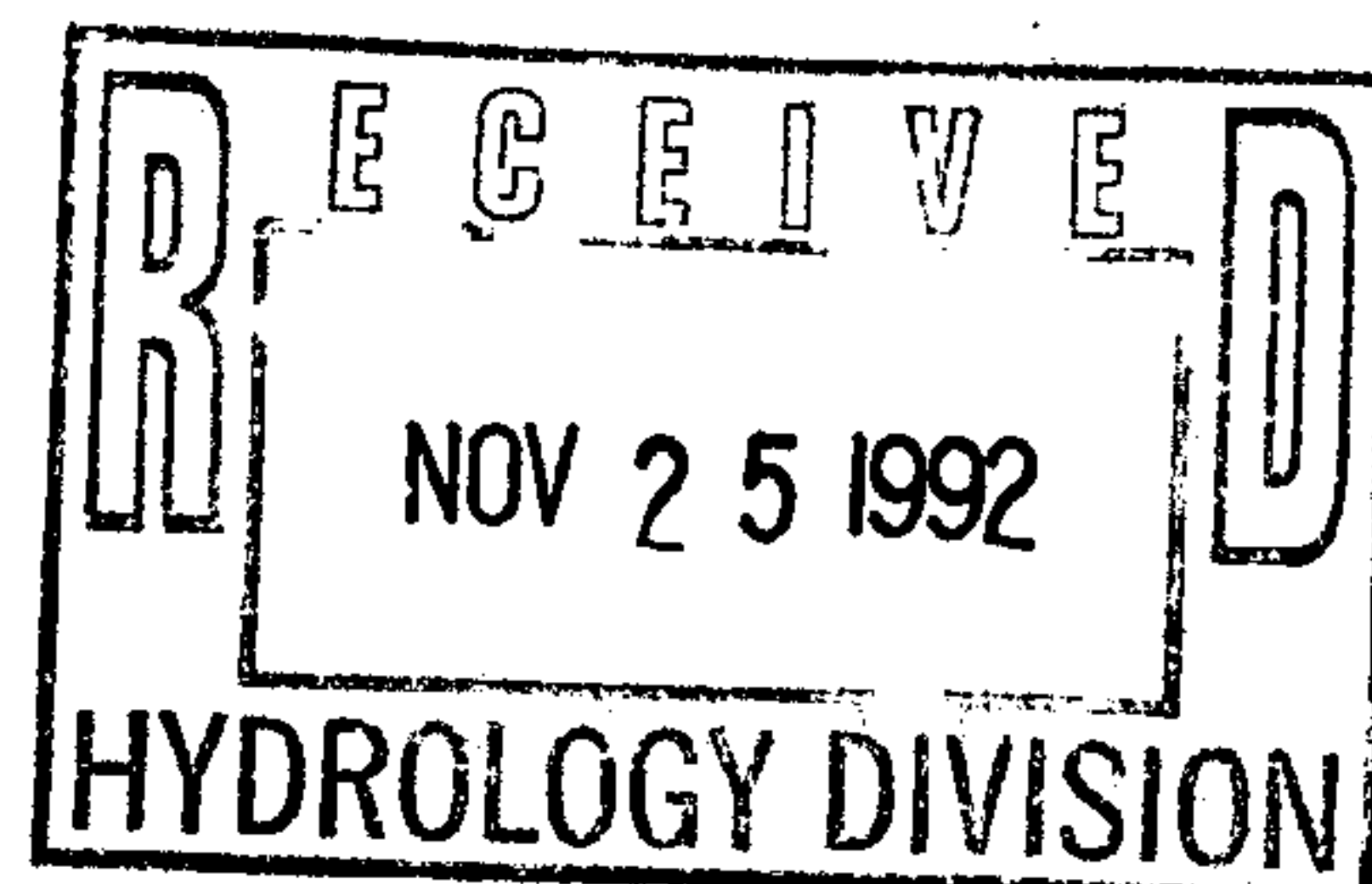
☐ NO

☐ COPY OF CONFERENCE RECAP
SHEET PROVIDED

DRB NO. _____

EPC NO. _____

PROJ. NO. _____



TYPE OF SUBMITTAL:

☐ DRAINAGE REPORT

☐ DRAINAGE PLAN

☐ CONCEPTUAL GRADING & DRAINAGE PLAN

☐ GRADING PLAN

☐ EROSION CONTROL PLAN

☒ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

☐ SKETCH PLAT APPROVAL

☐ PRELIMINARY PLAT APPROVAL

☐ SITE DEVELOPMENT PLAN APPROVAL

☐ FINAL PLAT APPROVAL

☐ BUILDING PERMIT APPROVAL

☐ FOUNDATION PERMIT APPROVAL

☒ CERTIFICATE OF OCCUPANCY APPROVAL

☐ ROUGH GRADING PERMIT APPROVAL

☐ GRADING/PAVING PERMIT APPROVAL

☐ OTHER _____ (SPECIFY)

DATE SUBMITTED: 11/24/92

BY: [Signature]

ALBUQUERQUE PUBLIC SCHOOLS
DEPARTMENT OF FACILITIES PLANNING AND CONSTRUCTION
915 OAK STREET, S.E.
P. O. BOX 25704
ALBUQUERQUE, NEW MEXICO 87125-0704
(505) 242-5865

DR. JACK BOBROFF
SUPERINTENDENT

DOLORES KLINGBEIL
ASSISTANT SUPERINTENDENT
FACILITIES PLANNING AND OPERATIONS
PAT McMURRAY
ACTING DIRECTOR

July 20, 1992

Mr. Bernie Montoya
Hydrology Division
City of Albuquerque
P.O. Box 1293
Albuquerque, New Mexico 87103

Re: Lavaland Elementary School

Dear Mr. Montoya:

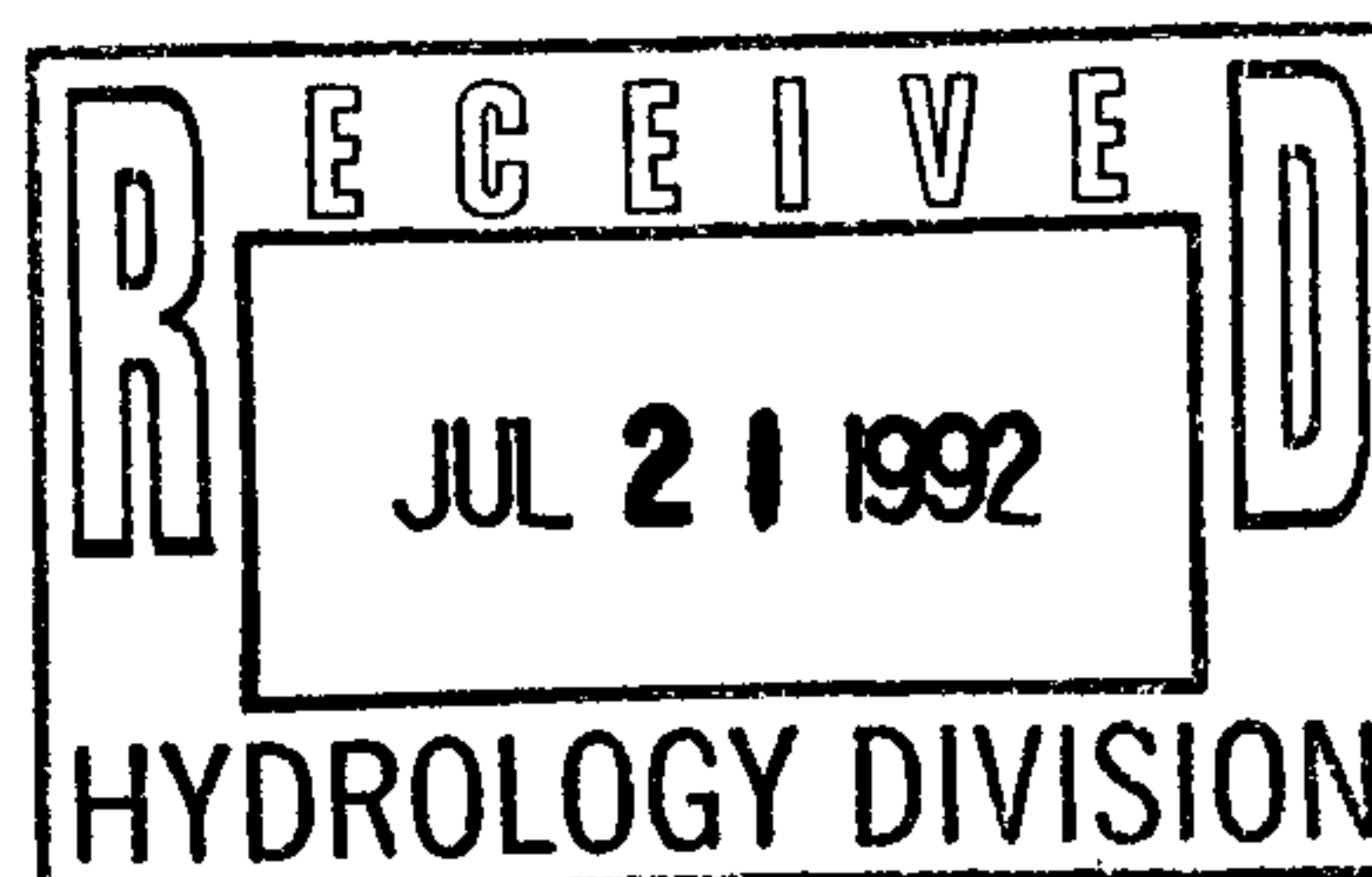
Albuquerque Public Schools will be directing Chavez-Grieves Engineering to prepare a Certification of Site Conformance with the approved drainage plan. I am requesting an allowance for a 30 day temporary Certificate of Occupancy in order for the district to start year-round school at Lavaland Elementary School. I thank you for your efforts in supporting our district's tight construction schedules.

Respectfully,



Bob Robie
Staff Architect/Planner

cc: file
Pat McMurray
Doug Macfarlane
Victor Chavez





City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

December 18, 1992

Victor Chavez
Chavez-Grievess Consulting Engineers
4600-C Montgomery Boulevard, NE
Albuquerque, New Mexico 87109

RE: ENGINEER CERTIFICATION FOR LAVALAND ELEMENTARY SCHOOL (J11-D18)
CERTIFICATION STATEMENT DATED 11/11/92.

Dear Mr. Chavez:

Based on the information provided on your November 25, 1992 submittal, I am unable to accept the Engineer Certification for the following reasons:

1. Sidewalk culvert to drain Basin B onto Dona Ana Place NW is not in. Developed run-off is not allowed to discharge over a public sidewalk.
2. Sidewalk culvert on the west side of Basin B which is supposed to drain run-off water underneath the walk is not in.
3. Need as-built invert elevations at each inlet and pvc pipes.
4. Unable to locate the outlet of the proposed 6" pvc pipe from Basin C.
5. New asphalt paved area on the northside of building was designed to have 3-1' wide curb cuts. Field inspection indicates 2-4" pvc pipes. If capacity does not exist with the 4" pvc pipes, run-off is going over the curb and causing deep erosion cuts on the dirt area.

Please address the listed concerns and resubmit. If I can be of further assistance, please feel free to contact me at 768-2667.

Sincerely,

Bernie J. Montoya, CE
Engineering Assistant

BJM/d1/WPHYD/7407

xc: Jerry Brown

File

PUBLIC WORKS DEPARTMENT



CHAVEZ-GRIEVES /CONSULTING ENGINEERS INC.

4600 MONTGOMERY N.E., BLDG. C, #101
ALBUQUERQUE, N.M. 87109
(505) 881-7376 FAX (505) 883-7119

April 12, 1993

Mr. Bernie Montoya
The City of Albuquerque
P.O. Box 1293
Albuquerque, New Mexico 87103

RE: CERTIFICATION OF LAVALAND ELEMENTARY SCHOOL - J11-D18

Dear Bernie:

In response to your letter dated February 24, 1993, I offer the following information:

1. The reason the sidewalk culvert for Basin B was eliminated is that the APS field representative modified the outlet for the system as originally proposed and water will not flow from the pond under the sidewalk culvert on the west side of the building or immediately north of Doña Aña Place. The play area will contain rainfall that falls on it, therefore, the culvert is no longer required.
2. We have included the invert elevation for the drop inlet. The remaining information is as provided by the APS Surveyor on their as-built information.
3. A concrete rundown has been provided at the southwest corner of the paved parking area on the north side of the project. It is similar to the rundown which you approved based on the sketch in your office.
4. We have advised APS that we are submitting this revised certification for your review and comment.

Bernie, we appreciate your assistance in this matter. Please feel free to call if you have any questions.

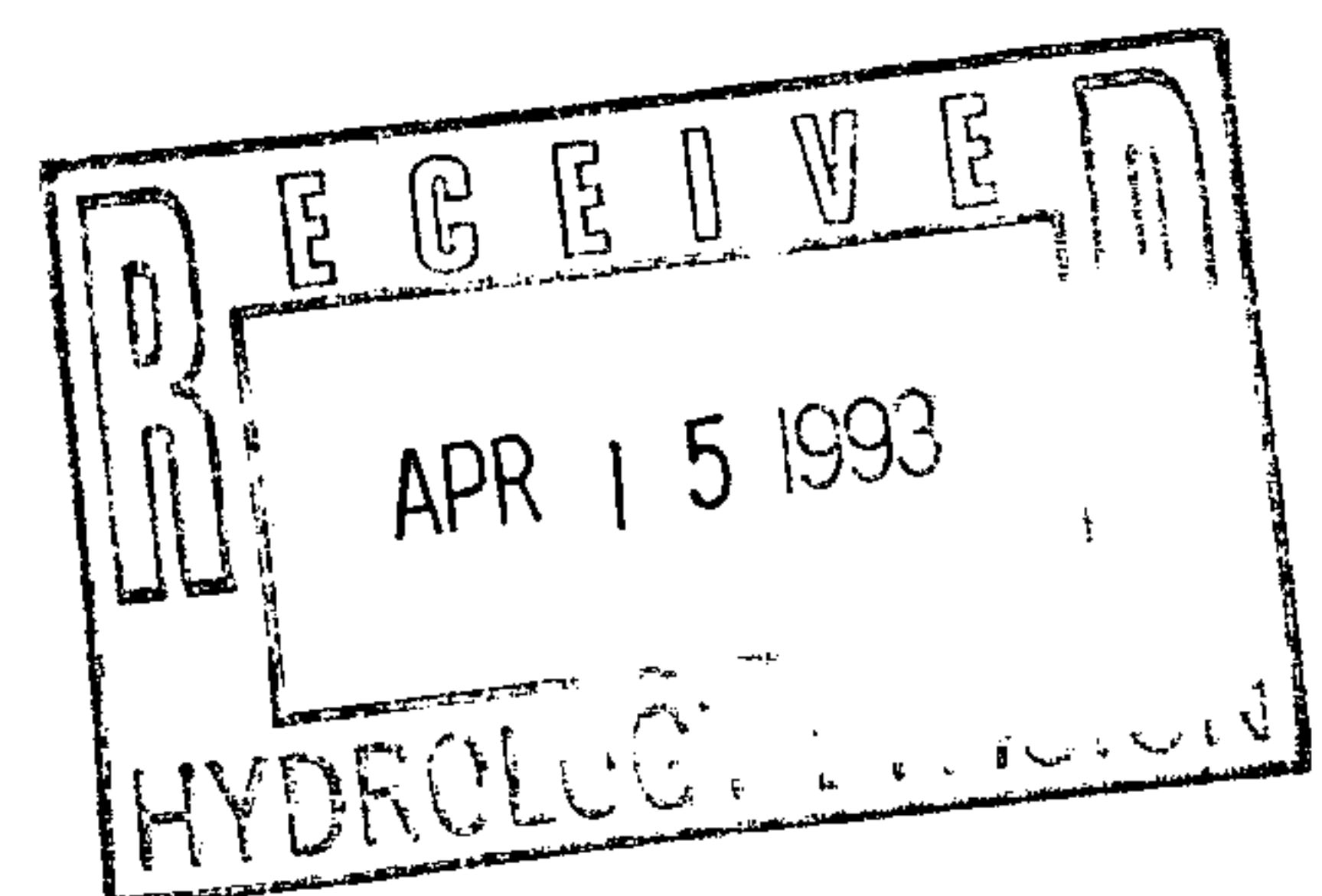
Very truly yours,

CHAVEZ-GRIEVES CONSULTING ENGINEERS, INC.


Victor J. Chavez, P.E.

VJC:ms

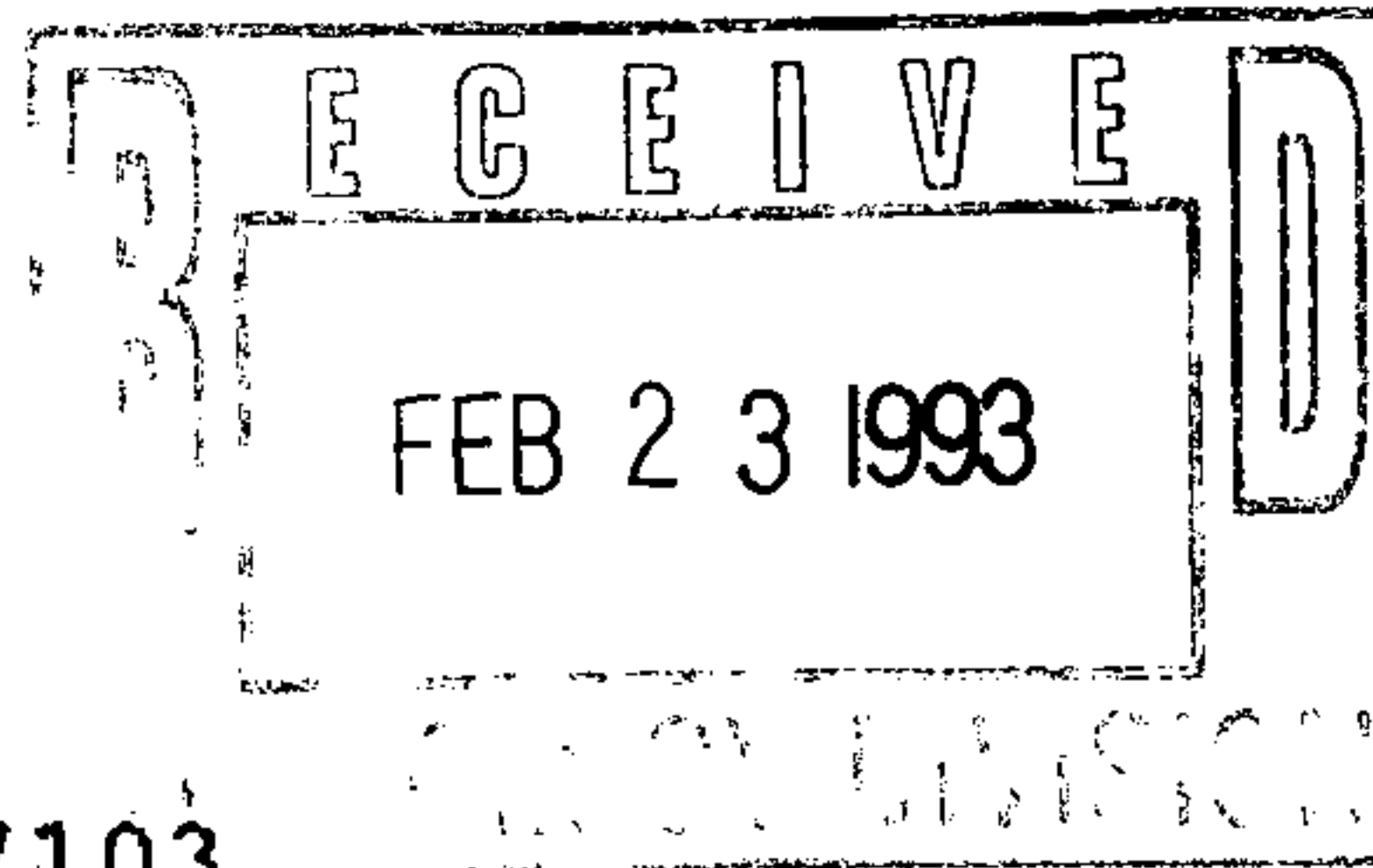
"QUALITY FIRST"



February 23, 1993

DRAFT

Mr. Bernie Montoya
The City of Albuquerque
P.O. Box 1293
Albuquerque, New Mexico 87103



RE: ENGINEER CERTIFICATION FOR LAVALAND ELEMENTARY SCHOOL
J11-E18, CERTIFICATION STATEMENT, DATE 11/11/92

Dear Mr. Montoya:

This letter is in response to your questions dated December 18, 1992. I apologize for the delay in this response.

I will try to address each of the items separately.

1. The sidewalk culvert draining Basin B was eliminated during construction by APS. Their thinking was that the overflow originally designed for Basin A, which was to run west of the building and then through this culvert, had been eliminated due to some modifications to the grading west of the building. Since the overflow from Basin A no longer runs west of the building, but will instead be contained within the ponding area, it was their assumption that the culvert was not needed. In addition, they have graded the toddler area to retain on-site rainfall. There is no concentration of runoff in this area and, at worst, some sheet flows may occur over the sidewalk. This was a change made by APS over which we have no control. The culvert on the plan has been eliminated.
2. The sidewalk culvert on the west side of Basin B, which I assume to be the one under the sidewalk immediately west of the building, has also been eliminated for the same reason. Since the pond for Basin A no longer overflows to the west of the building, the sidewalk culvert is not needed. Visual observation of the existing grades on the site show that there will be no concentration of flows below the sidewalk.

- shown on art p*
3. As-built invert elevation for the storm drain located at Basin A is 87.50'. The elevation for the outlet of the 6" PVC drain from Basin C is 90.0.
4. I have visited the site and have located a 6" PVC pipe as shown on the submittal dated 11/11/92.
5. Three 1'-wide curb cuts shown on the plans were modified by APS and two 4" PVC pipes were substituted. You are correct in that the overflows over the curb will cause erosion, however, this is no different than what would be caused by the curb cuts had they been installed properly. The two 4" drains will ultimately drain the parking lot. It will be the responsibility of APS to maintain the site and to repair erosion during major rainstorm events.
- provide erosion control Blanket*

Again, I apologize for the delay in this response and appreciate any attention you can give this certification.

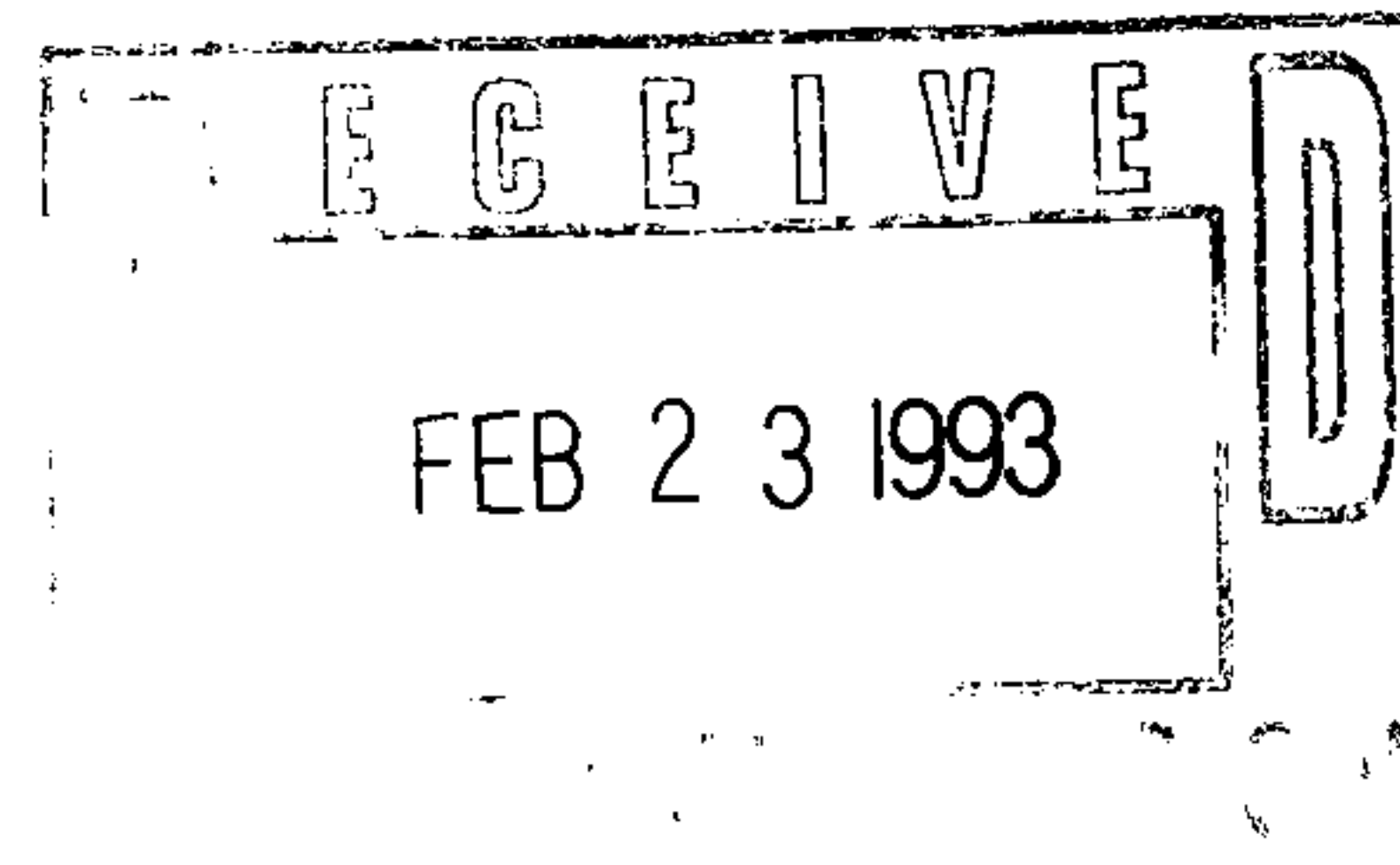
Very truly yours,

CHAVEZ-GRIEVES CONSULTING ENGINEERS, INC.

two 4" PVC pipes do not have the same capacity as the 1' curb cut do

Victor J. Chavez, P.E.

VJC:ms

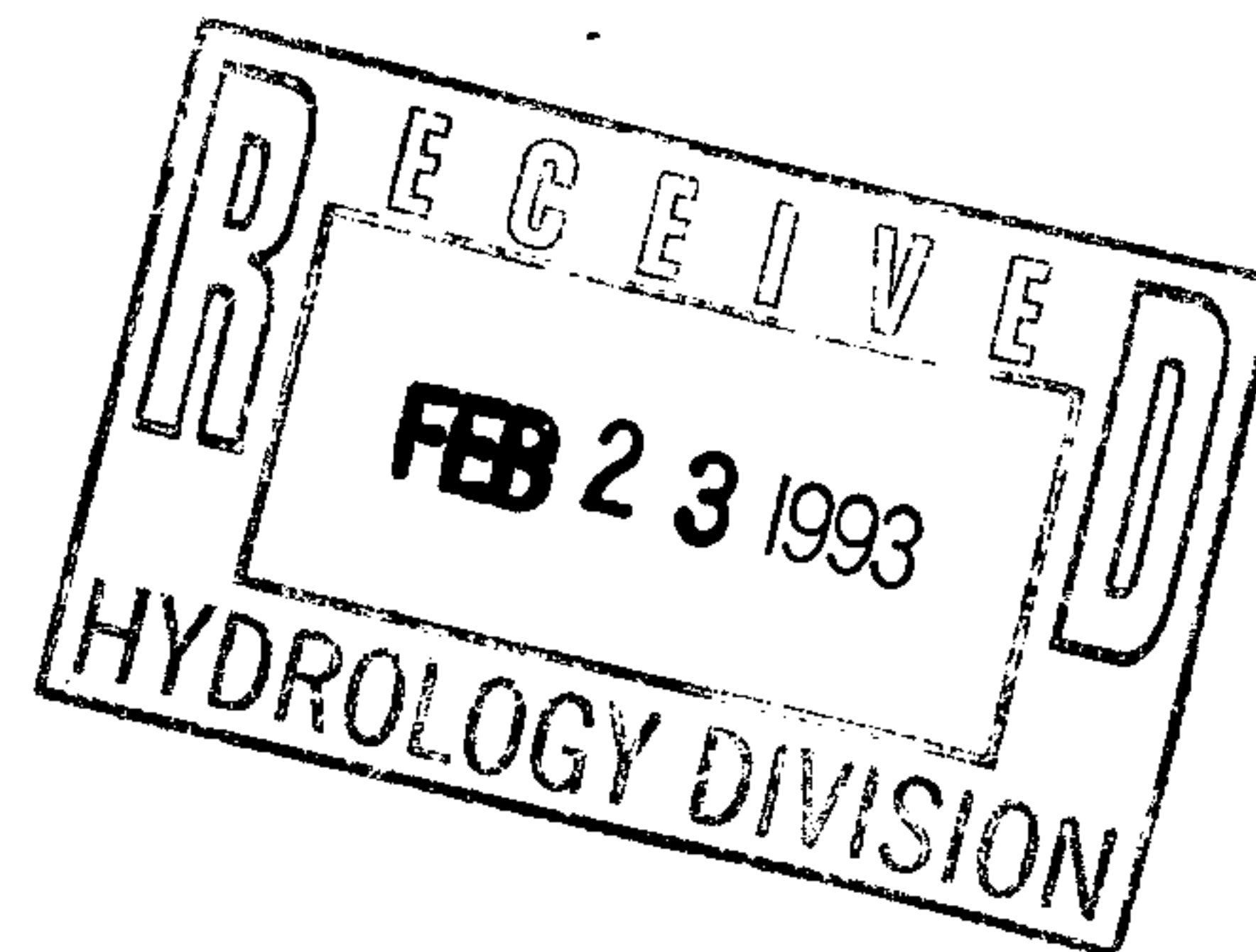


**CHAVEZ-GRIEVES/CONSULTING ENGINEERS, INC.**

4600 MONTGOMERY N.E., BUILDING C, #101
ALBUQUERQUE, NEW MEXICO 87109
(505) 881-7376

FAX # 883-7119TELECOPY COVER SHEET

DATE:

2/23/93

PROJECT NUMBER:

PROJECT NAME:

LAVALAND Elem. School

TO:

BERNIE MONTAÑA
768-3629

FROM:

Vic ChavezNUMBER OF PAGES TRANSMITTED:
(Including this cover page)3

OTHER INSTRUCTIONS:

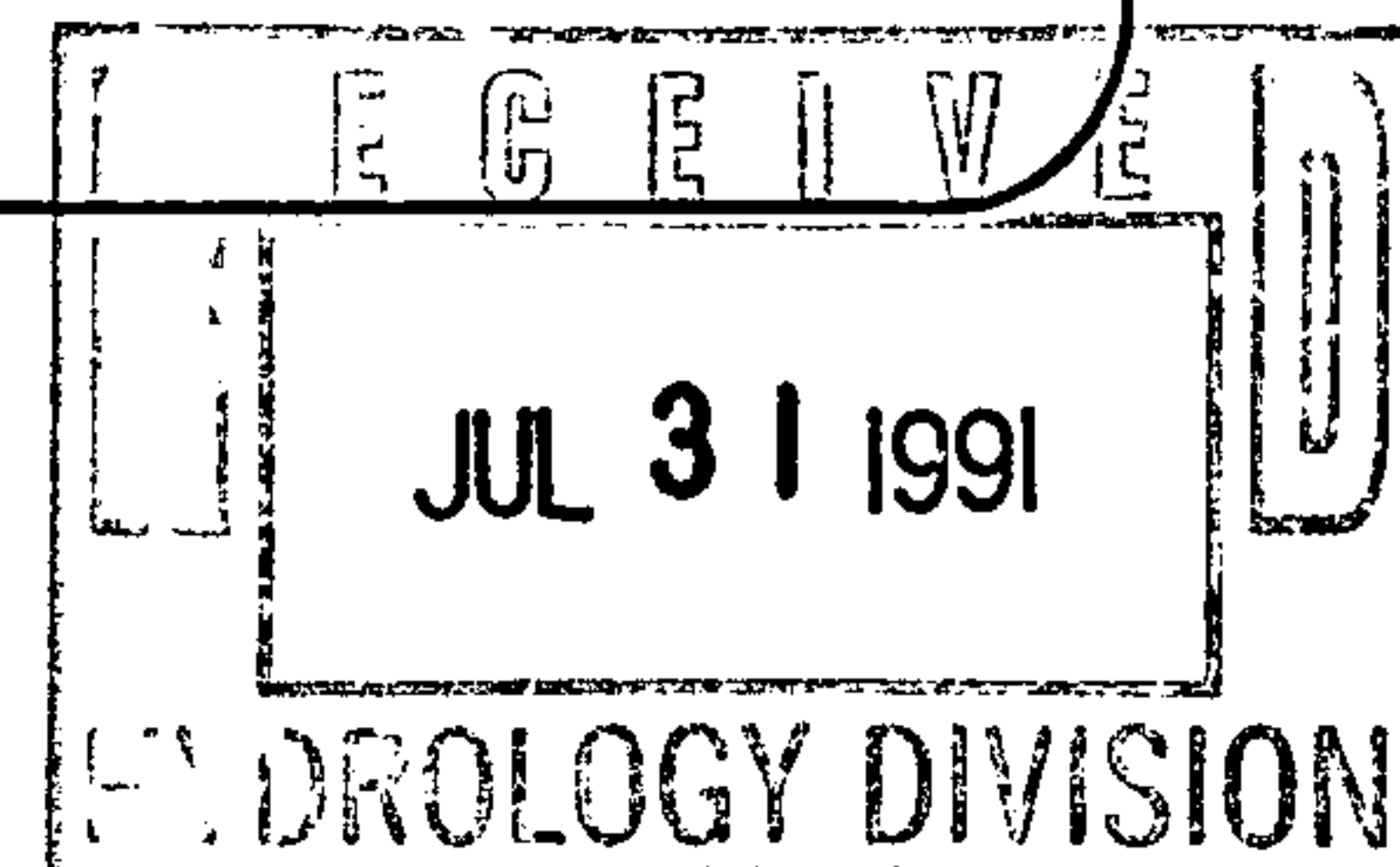
Please Review + call me so
we can discuss
ThanksSENT ☐



CHAVEZ-GRIEVES/CONSULTING ENGINEERS, INC.

4600 MONTGOMERY N.E., BUILDING C, #101
ALBUQUERQUE, NEW MEXICO 87109
(505) 881-7376 FAX (505) 883-7119

July 31, 1991



Mr. Fred Aguirre
The City of Albuquerque
P.O. Box 1293
Albuquerque, New Mexico 87103

RE: LAVALAND

Dear Fred:

I have reviewed with APS the options available regarding the referenced project site. In summary, the site discharges flows to the intersection of Delores Drive and Dona Ana Place, where the existing storm drain facility is unable to transport developed storm flows. Options available to handle these flows include; modifications to the owners drivepad and gates, provide positive flow from the site by adjusting existing grades along Dona Ana Place outright purchase of the property for use by HUD or the installation of an additional storm drain from the basin. Of these options, the most effective and the most expensive is the installation of the new storm drain.

Proposed development of the site will increase discharge from the site by five percent. This increase is relatively small when compared to the total basin area. However, we are not able to show that development of the site will not exacerbate the problem or that downstream facilities are capable of transporting the developed flows.


In order to proceed with the project utilizing free discharge, APS is willing to consider participation in improving conditions in the basin up to a maximum amount of \$20,000.00. The APS contribution is expected to be proportional to their part of the overall problem.

This problem has existed for thirty years according to Mr. Eddie Garcia, owner of the flooded property. I have taken the liberty of visiting with Mr. Garcia and he has informed me that he is amenable to any or all of the solutions listed above.

This letter has been reviewed with Mr. Gerry Brown, with APS. Please let me know what you can do in this matter or if I can be of any further assistance.

Very truly yours,

CHAVEZ-GRIEVES CONSULTING ENGINEERS, INC.



Victor J. Chavez, P.E.

VJC:ms

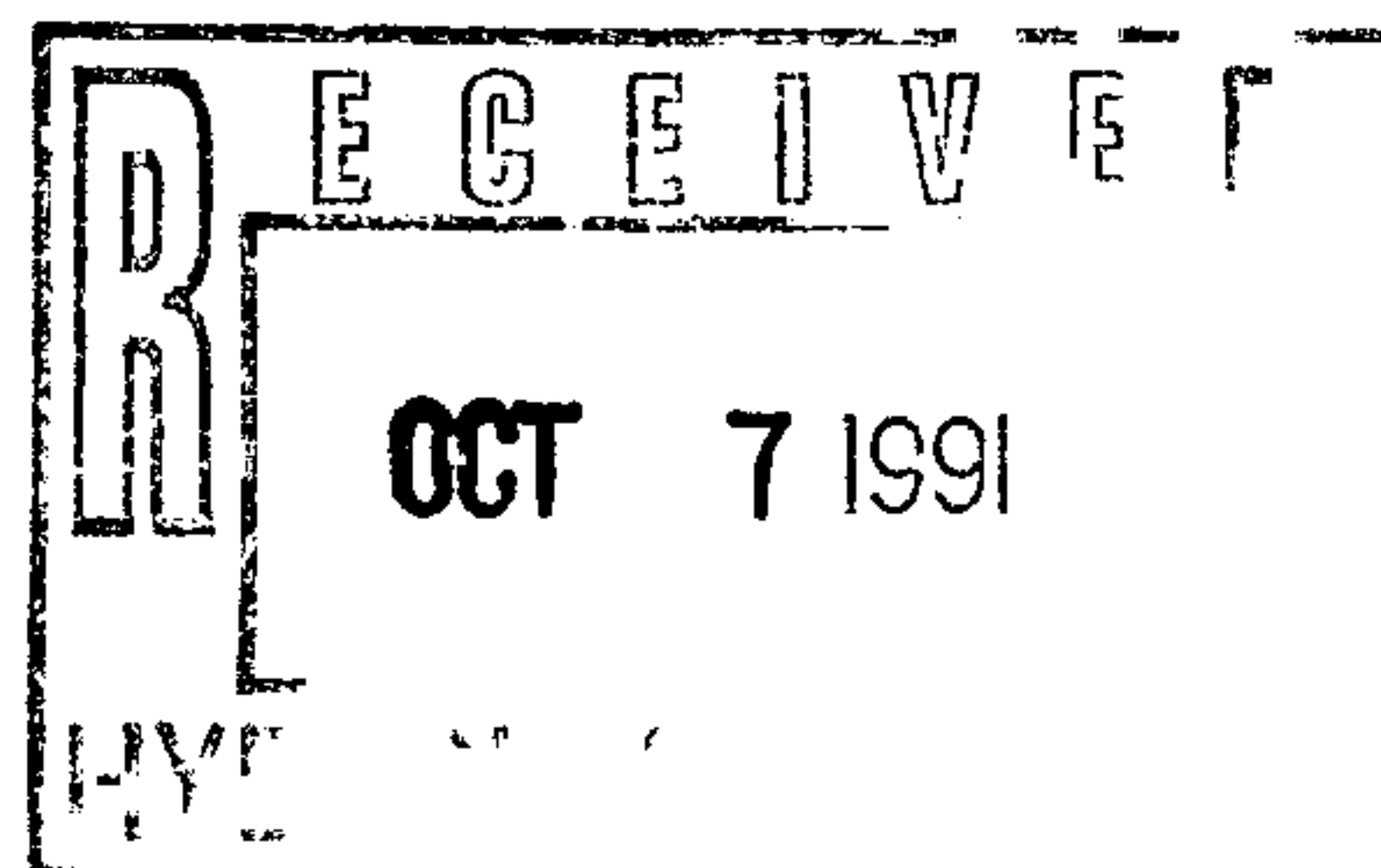
CC: Gerry Brown, APS
H. Barker, Architect
Dan Hogan, COA
Bob Roby, APS



CHAVEZ-GRIEVES/CONSULTING ENGINEERS, INC.

4600 MONTGOMERY N.E., BUILDING C, #101
ALBUQUERQUE, NEW MEXICO 87109
(505) 881-7376 FAX (505) 883-7119

October 3, 1991



Mr. Fred Aguirre
The City of Albuquerque
P.O. Box 1293
Albuquerque, New Mexico 87103

RE: LAVALAND ELEMENTARY SCHOOL

Dear Fred:

This letter is intended to summarize the conditions that exist at Lavaland Elementary School relative to existing drainage conditions and proposed changes due to the expansion of the school.

Presently, the site lies within a sub-basin which normally drains to the south and ties into an existing large diameter storm drain. Generally, throughout the sub-basin, flows are handled either through a buried storm drain line or through surface flows on sloped streets. The existing storm drain line cannot carry fully developed flows generated in the sub-basin. The only area that has a problem that we are aware of is at the southeast corner of the intersection of Dolores and Doña Aña. This problem is due to the existing grades that have generated a low point at this intersection. Water backs up from the storm drain system and overflows into the residential property.

Flow from this low point is transported through a 15" diameter line to the west and then to the south where it ties into the large diameter transmission line referenced above. Due to the limited capacity of the existing drain, water does back up and becomes approximately 15-18" deep at the intersection.

The majority of the water in this low area is transported through the storm drain line from the upper reaches of the sub-basin. Additional contributions are made by runoff from the Lavaland Elementary School site. The capacity of the line running east to west is approximately 3 cfs. The line then turns south from the

intersection of 58th Street and Doña Aña and has a capacity of approximately 4 cfs. The slopes are very shallow and silt tends to accumulate in the lines further restricting the flows. Historically, runoff from the site discharges to the Doña Aña and Dolores intersection through flows running over the curb and sidewalk at the south property line of the School. There is an existing drop inlet near the south property line that injects flows directly into the 15" storm drain system. In addition, some on-site ponding has occurred with relatively shallow storage throughout the western half of the property. This area stores 1917 cubic feet, temporarily, with water dissipated through percolation or evaporation.

The proposed development will slightly increase the peak discharge from the site due to the addition of the new classroom facility at the southwest corner. The original flows were 22.7 cubic feet per second and 32,552 total cubic feet of discharge. The developed flows will be 23.9 cfs and 35,266 total cubic feet of discharge.

In order to accommodate these changes, we have proposed two modifications to the site. Flows from Basins C and D, which originally were transmitted through the parking lot at the southeast corner and then discharged onto Doña Aña, will be diverted through a 12" drain line to the existing drop inlet located at the southeast corner of the site. This inlet is connected to a new 24" storm drain line recently installed by the City to minimize the potential for flooding at Doña Aña and Dolores. While this storm drain line has had a positive effect on the condition, it has not totally eliminated the potential for flooding. The capacity of the line is approximately 19 cfs with a total potential flow of approximately 20 cfs when the 57th Street flows are at their peak. As a result, there is actually no spare capacity in the line, however, discharge from the property has the opportunity to enter the line prior to the peak load flows from the sub-basin. This, in turn, reduces the total volume of water that will be accumulating in the problem area.

At the southwest corner of the property, we propose to tie from an on-site pond to a new drop inlet at the intersection of 58th Street and Doña Aña Place, which will then discharge into the existing 15" diameter line draining south to the major transmission line. Again, there is no spare capacity to accommodate these flows, however, there is the opportunity to discharge on-site flows prior to peak flows from the sub-basin reaching the area.

In addition, there will be temporary on-site ponding. The pond has been designed to provide a peak water surface elevation approximately equal to the elevation of the private property at flood stage. What this does is retain approximately 14000 cubic

feet of water on-site that would have originally discharged to the problem area. In theory, this reduces the maximum water surface elevation and the potential for flooding in the future. The discharge from the pond was originally to be limited to 1 cfs as requested by Mr. Dan Hogan with the City. In reviewing the mechanics of the operation of the pond, we determined that based on the water surface elevation, it was unrealistic to unnecessarily restrict flows from the pond. If the capacity is available in the downstream 15" diameter line, the opportunity should be made available to drain the pond. If the capacity is not available, the pond will back up and will prevent overflow to the problem area. The pond's total volume capacity is only 2335 cubic feet less than the total discharge from the sub-basin. If the opportunity is available to drain those 2335 cubic feet prior to the arrival of the peak from the sub-basin, there will be no overflows to Doña Aña and Dolores, thus reducing the potential for flooding.

Overall, the project site is severely restricted by the limited capacity of the existing storm drain systems. However, the proposed solution will, through diversion of on-site flows and temporary retention of ponding volumes, reduce the potential for risk as it exists today.

Please feel free to call if you have any questions or if I can be of any further assistance in this matter.

Very truly yours,

CHAVEZ-GRIEVES CONSULTING ENGINEERS, INC.

A handwritten signature in black ink, appearing to read "Victor J. Chavez". The signature is fluid and cursive, with the first name "Victor" and last name "Chavez" clearly distinguishable.

Victor J. Chavez, P.E.

VJC:ms



CHAVEZ-GRIEVES/CONSULTING ENGINEERS, INC.

4600 MONTGOMERY N.E., BUILDING C, #101
ALBUQUERQUE, NEW MEXICO 87109
(505) 881-7376 FAX (505) 883-7119

October 10, 1991

Mr. Fred Aguirre
The City of Albuquerque
P.O. Box 1293
Albuquerque, New Mexico 87103

RE: LAVALAND ELEMENTARY SCHOOL

Dear Fred:

In addition to our last submittal for building permit approval for the above project, I would also like to include the following information:

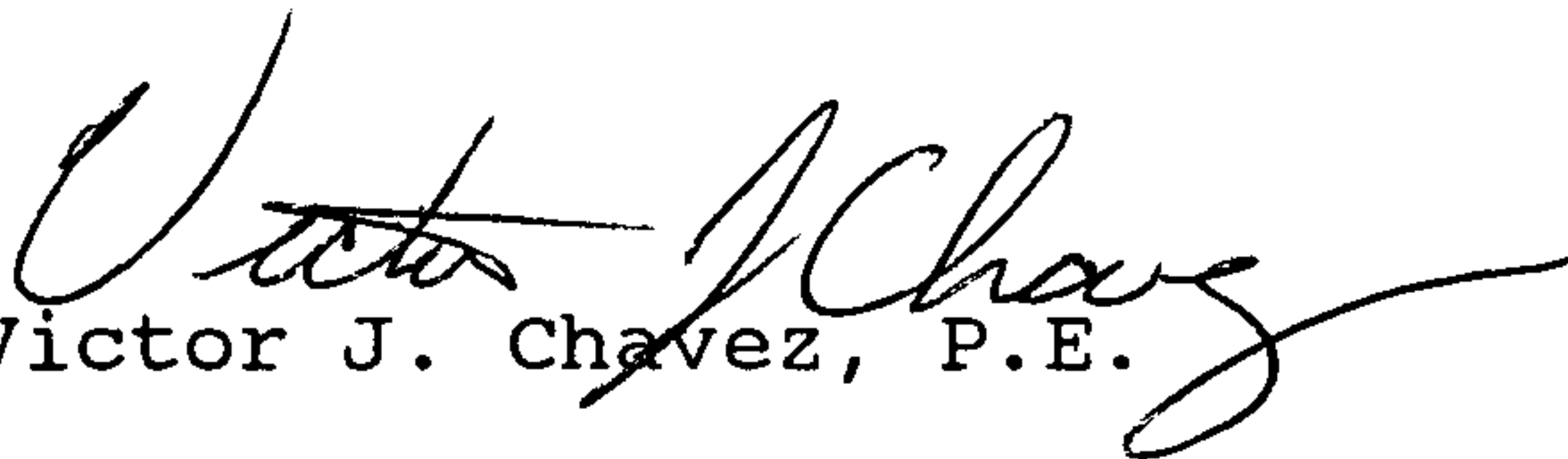
1. Runoff hydrograph for Phase I conditions. The hydrograph was computed using the revised drainage design procedure for computing runoff. The computed runoff volume for Basin "A" is 16,321 cf. Required pond volumes have also been computed assuming a rate of release from the pond of 1 cfs, 2 cfs and 3 cfs. The results are as follows: 1 cfs requires 13,795 cf of storage; 2 cfs requires 11,269 cf of storage; and 3 cfs requires 9,202 cf of storage. The pond capacity shown on Phase I is 14,000 cf.
2. Pipe flow calculations for the 8" PVC drain pipe. The length of drain pipe to be installed is 279 L.F. at a slope of 1.38 percent. This relates to a discharge capacity of 1.87 cfs and ponding requirement of 11,598 cf. The plan provides 14,000 cf of storage. As runoff enters the pond and is detained, a pressure head is produced, thus increasing the discharge rate of the line provided the existing downstream storm sewers have not yet reached their capacity. If downstream capacity is not available, runoff from the site will be stored until peak flows subside.
3. Storm inlet details have been added to the plans.

- drop Inlet*
4. A construction plan for the ~~school bus bay~~ has been provided for Dan Hogan. This plan shows all known existing utilities which must be avoided to install the 12 RCP storm sewer. Invert elevation for the storm sewer is also provided.
 5. Planimetered areas used for calculating pond volumes within Basin "A" have been provided.

Please feel free to call if you have any questions or if I can be of any further assistance in this matter.

Very truly yours,

CHAVEZ-GRIEVES CONSULTING ENGINEERS, INC.


Victor J. Chavez, P.E.

VJC:ms

PIPE FLOW CALCULATIONS

Page 1 of 4

Circular Channel Analysis & Design
Solved with Manning's Equation

Open Channel - Uniform flow

Worksheet Name: LAVALAND ELEM.

Description: POND OUTLET DESIGN (8" PVC DRIAN LINE)

Solve For Full Flow Capacity

Given Constant Data;

Mannings n.....	0.010
Discharge.....	2.00

Variable Input Data =====	Minimum =====	Maximum =====	Increment By =====
Diameter	0.67	0.67	0.67
Slope	0.0100	0.0200	0.0001

VARIABLE VARIABLE			COMPUTED COMPUTED COMPUTED COMPUTED			
=====			=====			
Diameter	Channel	Mannings	Discharge	Depth	Velocity	Capacity
ft	Slope	'n'	cfs	ft	fps	Full
	ft/ft					cfs
=====						
0.67	0.0100	0.010	1.59	0.67	4.52	1.59
0.67	0.0101	0.010	1.60	0.67	4.54	1.60
0.67	0.0102	0.010	1.61	0.67	4.56	1.61
0.67	0.0103	0.010	1.62	0.67	4.58	1.62
0.67	0.0104	0.010	1.62	0.67	4.60	1.62
0.67	0.0105	0.010	1.63	0.67	4.63	1.63
0.67	0.0106	0.010	1.64	0.67	4.65	1.64
0.67	0.0107	0.010	1.65	0.67	4.67	1.65
0.67	0.0108	0.010	1.65	0.67	4.69	1.65
0.67	0.0109	0.010	1.66	0.67	4.71	1.66
0.67	0.0110	0.010	1.67	0.67	4.74	1.67
0.67	0.0111	0.010	1.68	0.67	4.76	1.68
0.67	0.0112	0.010	1.68	0.67	4.78	1.68
0.67	0.0113	0.010	1.69	0.67	4.80	1.69
0.67	0.0114	0.010	1.70	0.67	4.82	1.70
0.67	0.0115	0.010	1.71	0.67	4.84	1.71
0.67	0.0116	0.010	1.71	0.67	4.86	1.71
0.67	0.0117	0.010	1.72	0.67	4.88	1.72
0.67	0.0118	0.010	1.73	0.67	4.90	1.73
0.67	0.0119	0.010	1.74	0.67	4.93	1.74
0.67	0.0120	0.010	1.74	0.67	4.95	1.74
0.67	0.0121	0.010	1.75	0.67	4.97	1.75
0.67	0.0122	0.010	1.76	0.67	4.99	1.76
0.67	0.0123	0.010	1.77	0.67	5.01	1.77
0.67	0.0124	0.010	1.77	0.67	5.03	1.77
0.67	0.0125	0.010	1.78	0.67	5.05	1.78
0.67	0.0126	0.010	1.79	0.67	5.07	1.79
0.67	0.0127	0.010	1.79	0.67	5.09	1.79
0.67	0.0128	0.010	1.80	0.67	5.11	1.80
0.67	0.0129	0.010	1.81	0.67	5.13	1.81
0.67	0.0130	0.010	1.82	0.67	5.15	1.82
0.67	0.0131	0.010	1.82	0.67	5.17	1.82
0.67	0.0132	0.010	1.83	0.67	5.19	1.83
0.67	0.0133	0.010	1.84	0.67	5.21	1.84
0.67	0.0134	0.010	1.84	0.67	5.23	1.84
0.67	0.0135	0.010	1.85	0.67	5.25	1.85
0.67	0.0136	0.010	1.86	0.67	5.27	1.86
0.67	0.0137	0.010	1.86	0.67	5.29	1.86
0.67	0.0138	0.010	1.87	0.67	5.30	1.87
0.67	0.0139	0.010	1.88	0.67	5.32	1.88

VARIABLE VARIABLE		COMPUTED COMPUTED COMPUTED COMPUTED				
=====		=====				
Diameter	Channel	Mannings	Discharge	Depth	Velocity	Capacity
ft	Slope	'n'	cfs	ft	fps	Full
	ft/ft					cfs
=====						
0.67	0.0140	0.010	1.88	0.67	5.34	1.88
0.67	0.0141	0.010	1.89	0.67	5.36	1.89
0.67	0.0142	0.010	1.90	0.67	5.38	1.90
0.67	0.0143	0.010	1.90	0.67	5.40	1.90
0.67	0.0144	0.010	1.91	0.67	5.42	1.91
0.67	0.0145	0.010	1.92	0.67	5.44	1.92
0.67	0.0146	0.010	1.92	0.67	5.46	1.92
0.67	0.0147	0.010	1.93	0.67	5.47	1.93
0.67	0.0148	0.010	1.94	0.67	5.49	1.94
0.67	0.0149	0.010	1.94	0.67	5.51	1.94
0.67	0.0150	0.010	1.95	0.67	5.53	1.95
0.67	0.0151	0.010	1.96	0.67	5.55	1.96
0.67	0.0152	0.010	1.96	0.67	5.57	1.96
0.67	0.0153	0.010	1.97	0.67	5.59	1.97
0.67	0.0154	0.010	1.98	0.67	5.60	1.98
0.67	0.0155	0.010	1.98	0.67	5.62	1.98
0.67	0.0156	0.010	1.99	0.67	5.64	1.99
0.67	0.0157	0.010	1.99	0.67	5.66	1.99
0.67	0.0158	0.010	2.00	0.67	5.68	2.00
0.67	0.0159	0.010	2.01	0.67	5.69	2.01
0.67	0.0160	0.010	2.01	0.67	5.71	2.01
0.67	0.0161	0.010	2.02	0.67	5.73	2.02
0.67	0.0162	0.010	2.03	0.67	5.75	2.03
0.67	0.0163	0.010	2.03	0.67	5.76	2.03
0.67	0.0164	0.010	2.04	0.67	5.78	2.04
0.67	0.0165	0.010	2.04	0.67	5.80	2.04
0.67	0.0166	0.010	2.05	0.67	5.82	2.05
0.67	0.0167	0.010	2.06	0.67	5.84	2.06
0.67	0.0168	0.010	2.06	0.67	5.85	2.06
0.67	0.0169	0.010	2.07	0.67	5.87	2.07
0.67	0.0170	0.010	2.08	0.67	5.89	2.08
0.67	0.0171	0.010	2.08	0.67	5.90	2.08
0.67	0.0172	0.010	2.09	0.67	5.92	2.09
0.67	0.0173	0.010	2.09	0.67	5.94	2.09
0.67	0.0174	0.010	2.10	0.67	5.96	2.10
0.67	0.0175	0.010	2.11	0.67	5.97	2.11
0.67	0.0176	0.010	2.11	0.67	5.99	2.11
0.67	0.0177	0.010	2.12	0.67	6.01	2.12
0.67	0.0178	0.010	2.12	0.67	6.02	2.12
0.67	0.0179	0.010	2.13	0.67	6.04	2.13

VARIABLE VARIABLE			COMPUTED COMPUTED COMPUTED COMPUTED			
=====			=====			
Diameter	Channel	Mannings	Discharge	Depth	Velocity	Capacity
ft	Slope	'n'	cfs	ft	fps	Full
	ft/ft					cfs
=====						
0.67	0.0180	0.010	2.14	0.67	6.06	2.14
0.67	0.0181	0.010	2.14	0.67	6.07	2.14
0.67	0.0182	0.010	2.15	0.67	6.09	2.15
0.67	0.0183	0.010	2.15	0.67	6.11	2.15
0.67	0.0184	0.010	2.16	0.67	6.12	2.16
0.67	0.0185	0.010	2.17	0.67	6.14	2.17
0.67	0.0186	0.010	2.17	0.67	6.16	2.17
0.67	0.0187	0.010	2.18	0.67	6.17	2.18
0.67	0.0188	0.010	2.18	0.67	6.19	2.18
0.67	0.0189	0.010	2.19	0.67	6.21	2.19
0.67	0.0190	0.010	2.19	0.67	6.22	2.19
0.67	0.0191	0.010	2.20	0.67	6.24	2.20
0.67	0.0192	0.010	2.21	0.67	6.26	2.21
0.67	0.0193	0.010	2.21	0.67	6.27	2.21
0.67	0.0194	0.010	2.22	0.67	6.29	2.22
0.67	0.0195	0.010	2.22	0.67	6.31	2.22
0.67	0.0196	0.010	2.23	0.67	6.32	2.23
0.67	0.0197	0.010	2.23	0.67	6.34	2.23
0.67	0.0198	0.010	2.24	0.67	6.35	2.24
0.67	0.0199	0.010	2.25	0.67	6.37	2.25
0.67	0.0200	0.010	2.25	0.67	6.39	2.25
0.67	0.0201	0.010	2.26	0.67	6.40	2.26

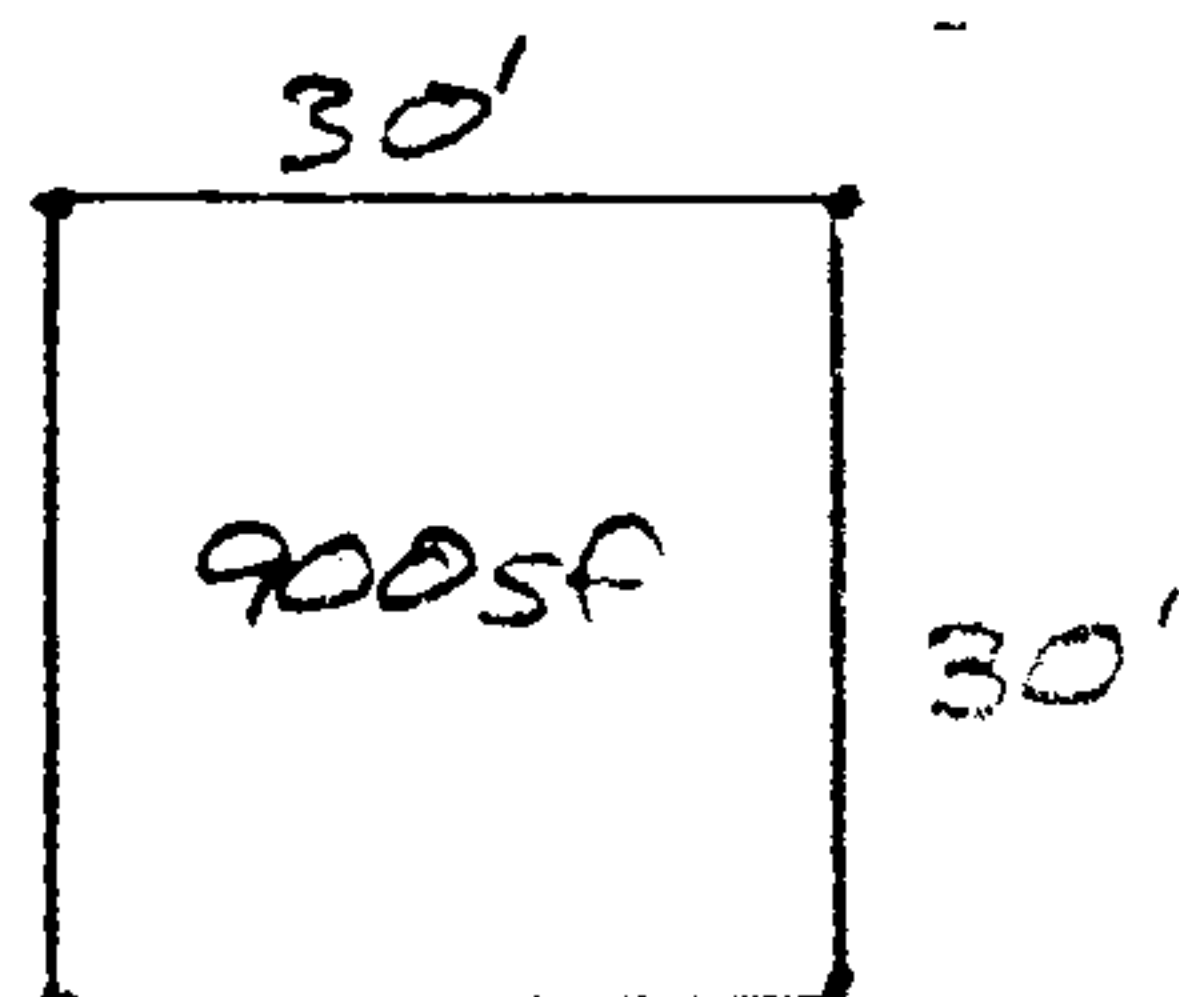
Job LAVERLAND ELEM.
Subject POND VOLUME CALCULATIONS
Client _____

Sheet No. _____ of _____
Job. No. _____
By RFB Date _____



CHAVEZ - GRIEVES / CONSULTING ENGINEERS, Inc.

Albuquerque, NM



READING #1 = 66 = 66
READING #2 = 134 = 68
READING #3 = 201 = 67
AVG = 67

$$\text{CONSTANT} = \frac{900 \text{ SF}}{67} = 13.4328$$

CONTOUR 89.5

AREA = 0 SF

CONTOUR 90

READING #1 = 0773 = 773
READING #2 = 1544 = 771
READING #3 = 2321 = 777
AVG = 773.6667

$$\text{AREA} = 10,392.51 \text{ SF}$$

CONTOUR 90.5

READING #1 = 2060 = 2060
READING #2 = 4160 = 2100
READING #3 = 6220 = 2060
AVG = 2073.33

$$\text{AREA} = 27,850.67$$

$$\begin{aligned} \text{VOLUME} &= \left[\frac{0 + 10,392.51}{2} \right] \times 0.5 + \left[\frac{10,392.51 + 27,850.67}{2} \right] \times 0.5 \\ &= 14,757 \text{ CF} \approx \underline{\underline{14,000 \text{ CF}}} \end{aligned}$$

Job CAVALAND
 Subject HYDROGRAPH CALCULATION
 Client _____

Sheet No. 1 of 2
 Job. No. _____
 By ED Date _____



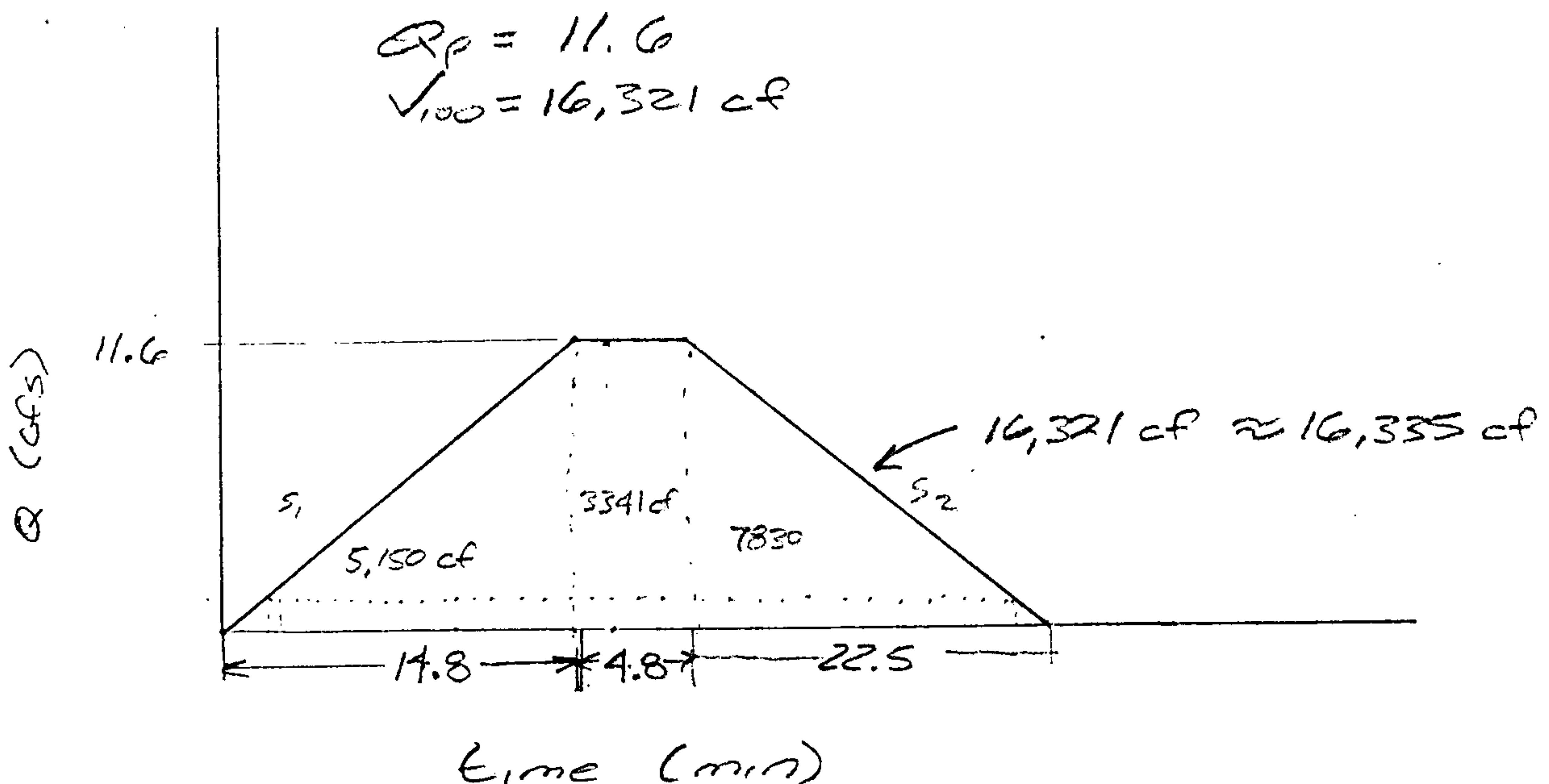
CHAVEZ - GRIEVES / CONSULTING ENGINEERS, Inc.

Albuquerque, NM

$$t_p = (0.7 \times 12) + 8 - (5 \times 1.1487 / 3.5711) = 14.8 \text{ min}$$

$$t = (121 \times 1.26 \times 3.5711 / 11.6) - (15 \times 1.1487 / 3.5711) = 42.1 \text{ min}$$

$$\text{DURATION OF PEAK} = 15 \times 1.1487 \div 3.5711 = 4.8 \text{ min}$$



POND VOLUME REQ IF 1 CFS IS RELEASED FROM POND

$$S_1 = 11.6 \text{ cfs} \div 14.8 \text{ min} = 0.7838 \text{ cfs/min}$$

$$S = \frac{r_{152}}{r_{100}}$$

$$S_2 = 11.6 \text{ cfs} \div 22.5 \text{ min} = 0.5156 \text{ cfs/min}$$

$$t_1 = \frac{1}{0.7838} = 1.27 \text{ min}$$

$$\text{VOL} = 76.2 \text{ cf}$$

$$t_2 = \frac{1}{0.5156} = 1.94 \text{ min}$$

$$\text{VOL} = 116.4 \text{ cf}$$

$$\text{VOL} = \frac{2333 \text{ cf}}{2526 \text{ cf}}$$

$$\begin{aligned} \text{REQ POND VOL} &= 16,321 - 2526 \\ &= \underline{13,795 \text{ cf}} \end{aligned}$$

POND VOLUME REQ IF 2 CFS IS RELEASED FROM POND

$$t_1 = \frac{2}{0.7838} = 2.55 \text{ min}$$

$$\text{VOL} = 306 \text{ cf}$$

$$t_2 = \frac{2}{0.5156} = 3.88 \text{ min}$$

$$\text{VOL} = 466 \text{ cf}$$

$$\text{VOL} = \frac{4280 \text{ cf}}{5052 \text{ cf}}$$

$$\begin{aligned} \text{REQ POND VOL} &= 16,321 - 5052 \\ &= \underline{11,269 \text{ cf}} \end{aligned}$$

Job LAVA LAND
Subject HYDROGRAPH CALCULATIONS
Client _____

Sheet No. 2 of 2
Job. No. _____
By _____ Date _____



CHAVEZ - GRIEVES / CONSULTING ENGINEERS, Inc.

Albuquerque, NM

POND VOLUME REQ IF 3 cfs IS RELEASED FROM POND

$$t_1 = \frac{3}{.7838} = 3.83 \text{ min} \quad \text{VOL} = 230 \text{ cf}$$

$$t_2 = \frac{3}{.5156} = 5.82 \text{ min} \quad \text{VOL} = 1048 \text{ cf} \quad \text{REQ. POND VOL} = 16,321 - 7119$$
$$\text{VOL} = \frac{5841 \text{ cf}}{7119 \text{ cf}} = \underline{\underline{9,202 \text{ cf}}}$$

POND VOLUME REQ IF 1.87 cfs IS RELEASED FROM POND

$$t_1 = \frac{1.87}{.7858} = 2.39 \text{ min} \quad \text{VOL} = 268 \text{ cf}$$

$$t_2 = \frac{1.87}{.5152} = 3.63 \text{ min} \quad \text{VOL} = 907 \text{ cf} \quad \text{REQ POND VOL} = 16,321 - 4723$$
$$\text{VOL} = \frac{4045 \text{ cf}}{4723 \text{ cf}} = \underline{\underline{11,598 \text{ cf}}}$$



CHAVEZ-GRIEVES /CONSULTING ENGINEERS, INC.

4600 MONTGOMERY N.E., BUILDING C, #101
ALBUQUERQUE, NEW MEXICO 87109
(505) 881-7376 FAX (505) 883-7119

July 3, 1991

Mr. Fred J. Aguirre, P.E.
The City of Albuquerque
P.O. Box 1293
Albuquerque, New Mexico 87103

RE: LAVALAND ELEMENTARY SCHOOL DRAINAGE PLAN, J-11

Dear Fred:

We have completed the drainage analysis of the Lavaland site and have a plan for reducing on-site runoff flows into the adjacent storm drain system.

The purpose of this letter is to present our proposed plan for site grading improvements and to obtain approval to proceed with this plan.

SUMMARY:

The proposed drainage plan for this site consists of the following:

1. PHASE I & II: Reduce existing runoff which flows off-site by ponding on site and draining to an existing drop inlet on 57th Street.
2. PHASE II - MASTER PLAN: Construct a new storm drain line for additional flows generated on-site and to alleviate flooding potential at Doña Aña Place and Delores Drive.

EXISTING CONDITIONS:

Presently, runoff is transported across the site as a sheet flow which collects in the southern portion of the site. Ponding of on-site generated flows occurs in the playground area which has

the capacity to contain 10-year storms and quickly infiltrate. Storms of greater intensity and duration have generated enough runoff volumes to overtop the curb on Doña Aña Place and flow off-site. Runoff generated from the existing parking area southeast of the main building flows off-site with each event.

Flooding has occurred in the vicinity of Doña Aña Place and Delores Drive. The runoff which contributes to the flooding of this area is generated primarily by the adjoining 58th Street, Delores Drive, and Cloudcroft Road. In 1990, a new 24" storm drain line was constructed on 57th Street between Doña Aña Place and 57th Street. This has apparently helped reduce flooding at Doña Aña Place and Delores Drive, however, there has not been a significant rainfall event since its construction.

PROPOSED IMPROVEMENTS:

Albuquerque Public Schools (APS) is proposing to develop the existing Lavaland School site in three phases. Phase I and Phase II will be constructed simultaneously. Phase III will eventually be designed and constructed when funding becomes available.

PHASE I & II:

The proposed improvements of the site include an extension of the main building at the south end of the site and a new parking area south of the new building. A new ponding area will be graded to retain all site flows generated north of the building. The new parking area south of the new building will act as a temporary drainage pond with a new drop inlet connecting to the existing drop inlet on 57th Street. Flows generated by the existing parking area southeast of the main building will remain unchanged.

Improvements proposed under Phase I & II do not significantly change the existing flows generated by the site.

Q100 - 6 hr. existing = 18.77 cfs

Q100 - 6 hr. proposed = 19.85 cfs

PHASE III - MASTER PLAN:

Proposed site plans for Phase III include construction of an additional Classroom Building, parking areas, and concrete sidewalks. Increased flows are expected to be generated which will place additional demands on the limited capacity of the existing storm drain system. Ponding areas developed during

Phase I & II will not have sufficient capacity to contain the additional runoff. Infrastructure improvements will be required for off-site drainage via a new storm drain line along 58th Street or Delores Drive.

With your approval, we will proceed with preparation of construction documents for Phase I & II as discussed. By copy of this letter we are also notifying APS that future development may require the installation of extensive infrastructure improvements to handle increased flows and to reduce the threat of flooding to adjacent residential developments.

Please consider our recommendations. If you have any suggestions or questions, please call.

Very truly yours,

CHAVEZ-GRIEVES CONSULTING ENGINEERS, INC.


Victor J. Chavez, P.E.

JML:ms

CC: H. Barker
Jerry Brown, APS

DRAINAGE INFORMATION SHEET

PROJECT TITLE: LAVALAND ELEM ZONE ATLAS/DRNG. FILE #: J-11-7D18

DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: TRACTS OF LAND, LOTS (13)-(22) includ. (12)-(23) ETC

CITY ADDRESS: _____

ENGINEERING FIRM: Chavez-Grienes CONTACT: Ray GomezADDRESS: 4600-C Montgomery PHONE: 881-7376OWNER: A.P.S. CONTACT: _____

ADDRESS: _____ PHONE: _____

ARCHITECT: Barker - McFarlane CONTACT: Doug McFarlaneADDRESS: 209 GOLD AVE S.W. PHONE: 842-6789

SURVEYOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

CONTRACTOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

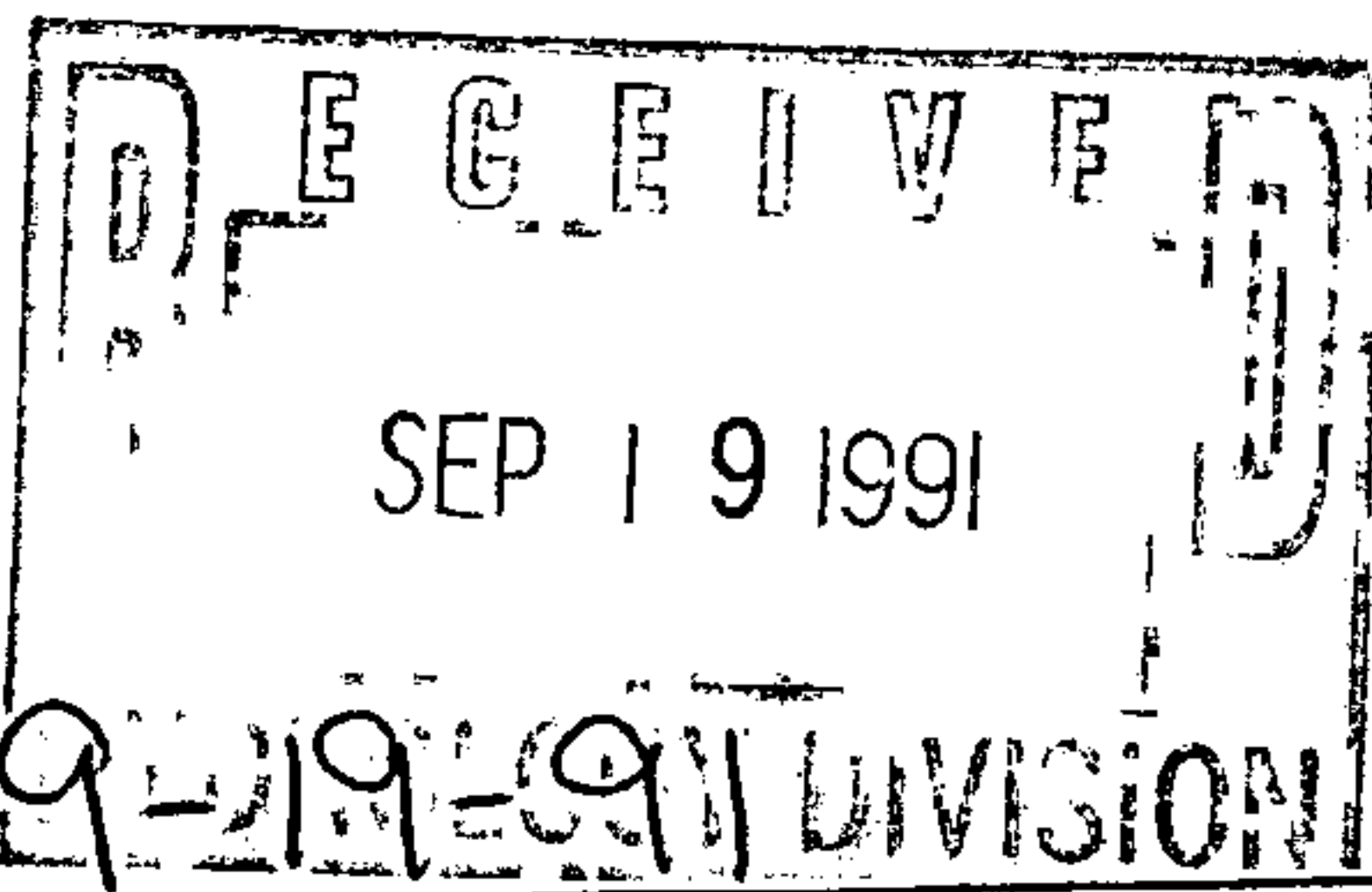
- ☐ DRAINAGE REPORT
☐ DRAINAGE PLAN
☐ CONCEPTUAL GRADING & DRAINAGE PLAN
☐ GRADING PLAN
☐ EROSION CONTROL PLAN
☐ ENGINEER'S CERTIFICATION
☒ OTHER

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 S.O.19 (SPECIFY)



DATE SUBMITTED: _____

BY: Ronnie Casaw



CHAVEZ-GRIEVES / CONSULTING ENGINEERS, INC.

4600 MONTGOMERY N.E., BUILDING C, #101
ALBUQUERQUE, NEW MEXICO 87109
(505) 881-7376

LETTER OF TRANSMITTAL

TO: C.O.A. Hydrology

DATE: 9-19-91

JOB # _____

RE: LAVALAND ELEMENTARY
SCHOOL (S.O. 19)

We are sending you ☒ ATTACHED ☐ UNDER SEPARATE COVER, the following items:

☐ SHOP DRAWINGS ☐ CHANGE ORDER ☐ SPECIFICATIONS
☐ COPY OF LETTER ☐ PLANS
☒ PRINTS ☐ SAMPLES

COPIES	DATE	NO.	DESCRIPTION
2			PHASE I Grading & Drainage SHEET C-1

THESE ARE TRANSMITTED as checked below:

<input checked="" type="checkbox"/> FOR APPROVAL	<input type="checkbox"/> SUBMIT <input type="checkbox"/> COPIES FOR DISTRIBUTION
<input type="checkbox"/> FOR YOUR USE	<input type="checkbox"/> RETURN <input type="checkbox"/> CORRECTED PRINTS
<input type="checkbox"/> AS REQUESTED	<input type="checkbox"/> RETURNED AFTER LOAN TO US
<input type="checkbox"/> FOR REVIEW AND COMMENT	<input type="checkbox"/> FOR BIDS DUE <u>19</u>
<input type="checkbox"/> REVISE TO MATCH SHOP DRAWING STAMP	

REMARKS:

This submittal is for an approval for an installation
of a sidewalk culvert within the City Right
of way (S.O. 19).

COPY TO: JOB FILE SIGNED: Rennie Casas

DRAINAGE INFORMATION SHEET

PROJECT TITLE: LAVALAND ELEMENTARY SCH ZONE ATLAS/DRNG. FILE #: J-11-2
DRB #: _____ EPC #: _____ WORK ORDER #: _____
LEGAL DESCRIPTION: CERTAIN TRACT LAND LOTS (13)-(22) - (LOTS (12)-(23) ETC.
CITY ADDRESS: _____
ENGINEERING FIRM: CHAVEZ-GRIEVEZ ENG. CONTACT: RAY GOMEZ
ADDRESS: 4600-C MONTGOMERY PHONE: 881-7376
OWNER: A.P.S CONTACT: _____
ADDRESS: _____ PHONE: _____
ARCHITECT: BARKER - McFARLINE CONTACT: _____
ADDRESS: _____ PHONE: _____
SURVEYOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CONTRACTOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

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

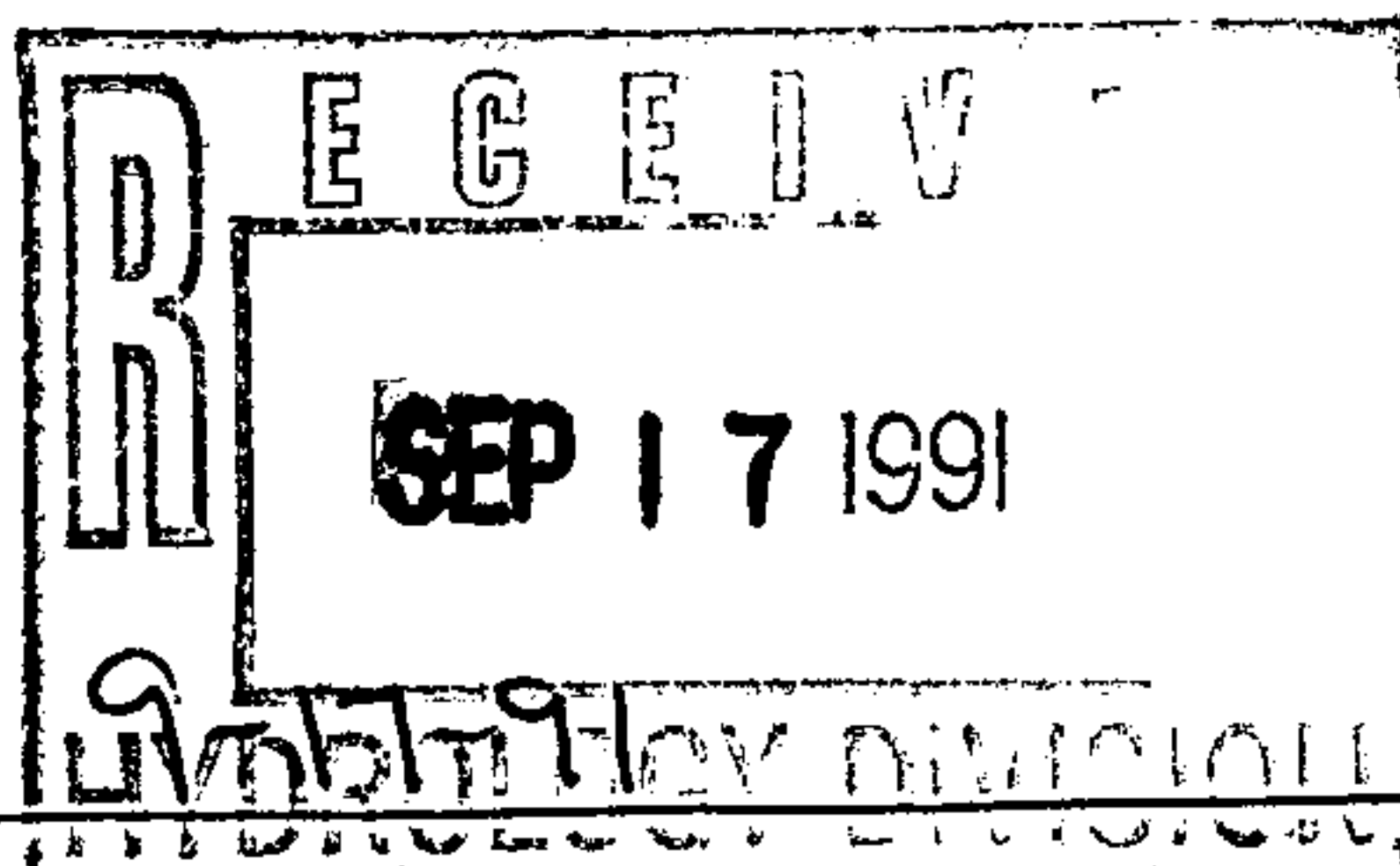
PRE-DESIGN MEETING:

____ 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: _____

BY: Ronnie Edwards



CHAVEZ-GRIEVES / CONSULTING ENGINEERS, INC.

4600 MONTGOMERY N.E., BUILDING C, #101
ALBUQUERQUE, NEW MEXICO 87109
(505) 881-7376

LETTER OF TRANSMITTAL

TO: C.O.A. Hydrology

DATE: 9-17-91

JOB # _____

RE: LAVALAND ELEMENTARY
School

We are sending you ☒ ATTACHED ☐ UNDER SEPARATE COVER, the following items:

<input type="checkbox"/> SHOP DRAWINGS	<input type="checkbox"/> CHANGE ORDER	<input type="checkbox"/> SPECIFICATIONS
<input type="checkbox"/> COPY OF LETTER	<input type="checkbox"/> PLANS	_____
<input checked="" type="checkbox"/> PRINTS	<input type="checkbox"/> SAMPLES	_____

<u>COPIES</u>	<u>DATE</u>	<u>NO.</u>	<u>DESCRIPTION</u>
<u>1 set</u>			<u>G&D Drainage Phase I & II</u>
_____			_____
_____			_____

THESE ARE TRANSMITTED as checked below:

<input checked="" type="checkbox"/> FOR APPROVAL	<input type="checkbox"/> SUBMIT _____ COPIES FOR DISTRIBUTION
<input type="checkbox"/> FOR YOUR USE	<input type="checkbox"/> RETURN _____ CORRECTED PRINTS
<input type="checkbox"/> AS REQUESTED	<input type="checkbox"/> RETURNED AFTER LOAN TO US
<input type="checkbox"/> FOR REVIEW AND COMMENT	<input type="checkbox"/> FOR BIDS DUE _____ 19 _____
<input type="checkbox"/> REVISE TO MATCH SHOP DRAWING STAMP	_____

REMARKS:

COPY TO: Job File SIGNED: Ronnie C. Adams

7/25/91

Barbara

J11-D18

Log out

verbal cmts to Vic Chang
on 7/24/91

7/23/91

Victor Chavez
Chavez-Grievs Engineering
4600-C Montgomery Blvd
Albuquerque, New Mexico

RE: Drainage Plan For Lavaland Elementary (J11-D18)
Received 7/12/91

Dear Mr. Chavez:

Based on the information provided on your July 12, 1991 submittal, we are unable to review the submittal until the following information is included:

1. Discharge from this site will be based on downstream capacity.
2. Recommend a separate submittal be made to identify existing flow conditions.
3. Replat may be required to incorporate the vacated Right of Way into the adjoining lots.
4. If easements exist within the vacated Right of Way, vacation action will be required.

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

Sincerely
Bernie Mantya CE
Engineering Assistant

DRAINAGE INFORMATION SHEET

PROJECT TITLE: CAVALAND Elementary ZONE ATLAS/DRNG.FILE #: D18 J-11/2

LEGAL DESCRIPTION: A certain tract of land Being All of lots
Numbers (13) - (22), (10) - (19) in Addition. TRACTS 106, 107, + 108

CITY ADDRESS: _____

ENGINEERING FIRM: Chavez - Greaves CONTACT: Ray Gomez

ADDRESS: 4600 N Montgomery PHONE: 881-7376

OWNER: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

ARCHITECT: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

SURVEYOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

CONTRACTOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

PRE-DESIGN MEETING:

☐ YES

☐ NO

☐ COPY OF CONFERENCE RECAP
SHEET PROVIDED

DRB NO. _____

EPC NO. _____

PROJ. NO. _____

TYPE OF SUBMITTAL:

☐ DRAINAGE REPORT

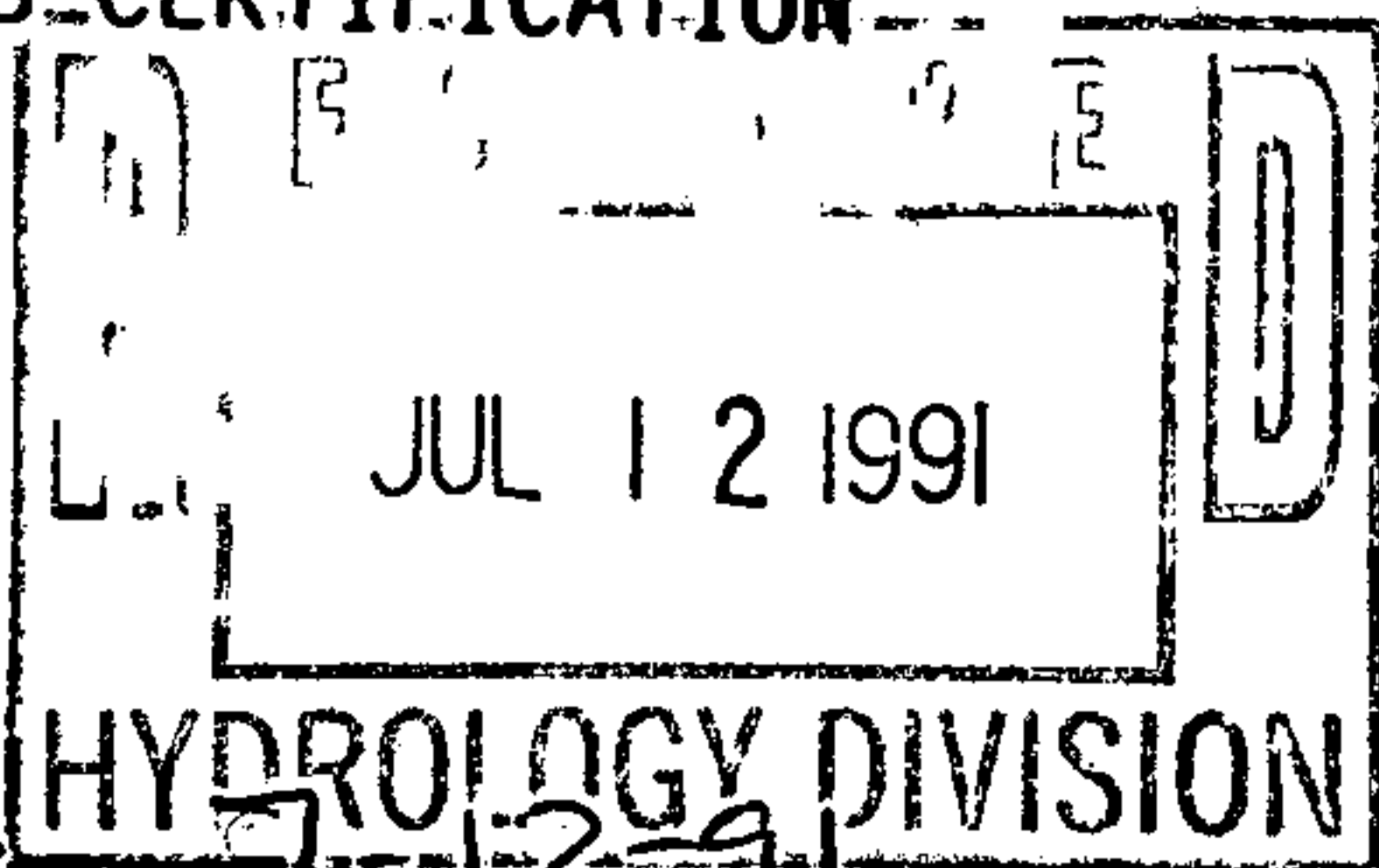
☐ DRAINAGE PLAN

☒ ~~CONCEPTUAL~~ GRADING & DRAINAGE PLAN

☐ GRADING PLAN

☐ EROSION CONTROL PLAN

☐ ENGINEER'S CERTIFICATION



DATE SUBMITTED: 7-12-91

BY: Ramon Cadon

CHECK TYPE OF APPROVAL SOUGHT:

☐ SKETCH PLAT APPROVAL

☐ PRELIMINARY PLAT APPROVAL

☐ SITE DEVELOPMENT PLAN APPROVAL

☐ FINAL PLAT APPROVAL

☒ BUILDING PERMIT APPROVAL

☐ FOUNDATION PERMIT APPROVAL

☐ CERTIFICATE OF OCCUPANCY APPROVAL

☐ ROUGH GRADING PERMIT APPROVAL

☐ GRADING/PAVING PERMIT APPROVAL

☐ OTHER _____ (SPECIFY)

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
UTILITY DEVELOPMENT DIVISION/HYDROLOGY SECTION

PRE-DESIGN CONFERENCE

DRAINAGE FILE/ZONE ATLAS PAGE NO.: J 11 DATE: 4/16/91
EPC NO.: _____ DRB NO.: _____ ZONE: _____
SUBJECT: LAUN LAUN
STREET ADDRESS: CORNER OF CLOUDCRAFT, 57th, 58th + DUND AND
LEGAL DESCRIPTION: _____

APPROVAL REQUESTED: _____ PRELIMINARY PLAT _____ FINAL PLAT
_____ SITE DEVELOPMENT PLAN X BUILDING PERMIT
_____ GRADING/PAVING PERMIT _____ OTHER _____

ATTENDANCE: WHO REPRESENTING
JAKE BORDENAVE _____
FRED J. AGUIRRE _____

FINDINGS:
AN APPROVED DRAINAGE PLAN IS REQUIRED.
FOR BUILDING PERMIT SIGN-OFF. Discharge FROM
THIS SITE WILL BE BASED ON DOWNSTREAM CAPACITY.
RECOMMEND A SEPARATE SUBMITTAL BE MADE TO
IDENTIFY EXISTING FLOW CONDITIONS.
REPORT MAY BE REQUIRED TO INCORPORATE
THE "VACATED" R/W INTO THE ADJOINING LOTS.
IF EASEMENTS EXIST WITHIN THE VACATED
R/W, VACATION ACTION REQUIRED.

The undersigned agrees that the above findings are summarized accurately and are only subject to change if further investigation reveals that they are not reasonable or that they are based on inaccurate information.

SIGNED: [Signature] SIGNED: [Signature]
TITLE: _____ TITLE: _____
DATE: 4/16/91 DATE: 04/16/91

****NOTE**** PLEASE PROVIDE A COPY OF THIS PRE-DESIGN FORM WITH THE DRAINAGE SUBMITTAL.



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

Ken Schultz
Mayor

UTILITY DEVELOPMENT DIVISION
HYDROLOGY SECTION
(505) 768-2650

October 15, 1987

Jeff Mortensen
Tom Mann and Associates
811 Dallas NE
Albuquerque, New Mexico 80110

RE: DRAINAGE/GRADING PLAN FOR PARKING LOT AT LAVALAND ELEMENTARY
SCHOOL (J-11/D18) ENGINEER'S STAMP DATED 10/07/87

Dear Mr. Mortensen:

Based on the information provided on your October 9, 1987 submittal, the above referenced plan is approved for Grading/Paving permit.

Upon completion of construction, please advise your client that they will need to call Rick Duran at 764-1699 to request an inspection (please provide him with the number upon request of inspection).

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

Sincerely,

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

BJM/lk

PUBLIC WORKS DEPARTMENT

Walter Nickerson, P.E., City Engineer

ENGINEERING GROUP

Telephone (505) 768-2500

AN EQUAL OPPORTUNITY EMPLOYER

FILE COPY

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103



Ken Schultz
Mayor

UTILITY DEVELOPMENT DIVISION
HYDROLOGY SECTION
(505) 768-2650

October 15, 1987

Jeff Mortensen
Tom Mann and Associates
811 Dallas NE
Albuquerque, New Mexico 80110

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

Sincerely,

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

BJM/lk

PUBLIC WORKS DEPARTMENT

Walter Nickerson, P.E., City Engineer

ENGINEERING GROUP

Telephone (505) 768-2500

AN EQUAL OPPORTUNITY EMPLOYER

DRAINAGE INFORMATION SHEET

871802

PROJECT TITLE: CAVALAND ELEMENTARY SCHOOL ZONE ATLAS/DRNG. FILE #: J-11-2/D18
LEGAL DESCRIPTION: CAVALAND ELEMENTARY SCHOOL
CITY ADDRESS: _____
ENGINEERING FIRM: TOM MANN & ASSOC. CONTACT: J.G. MORTENSEN
ADDRESS: 811 DALLAS NE. PHONE: 265-5611
OWNER: APS CONTACT: PAT SEDILLO
ADDRESS: _____ PHONE: 765-5950
ARCHITECT: N/A CONTACT: _____
ADDRESS: _____ PHONE: _____
SURVEYOR: TOM MANN & ASSOC. CONTACT: J.G. MORTENSEN
ADDRESS: 811 DALLAS NE PHONE: 265-5611
CONTRACTOR: NOT KNOWN CONTACT: _____
ADDRESS: _____ PHONE: _____

PRE-DESIGN MEETING:

☒ YES
☐ NO
☒ COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB NO. _____
EPC NO. _____
PROJ. NO. _____

TYPE OF SUBMITTAL:

☐ DRAINAGE REPORT
☒ DRAINAGE PLAN
☐ CONCEPTUAL GRADING & DRAINAGE PLAN
☒ GRADING PLAN
☐ EROSION CONTROL PLAN
☐ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

☐ SKETCH PLAT APPROVAL
☐ PRELIMINARY PLAT APPROVAL
☐ SITE DEVELOPMENT PLAN APPROVAL
☐ FINAL PLAT APPROVAL
☐ BUILDING PERMIT APPROVAL
☐ FOUNDATION PERMIT APPROVAL
☐ CERTIFICATE OF OCCUPANCY APPROVAL
☐ ROUGH GRADING PERMIT APPROVAL
☒ GRADING/PAVING PERMIT APPROVAL
☐ OTHER _____ (SPECIFY)

RECEIVED
OCT 09 1987

HYDROLOGY SECTION

DATE SUBMITTED: 10-08-87
BY: J.G. MORTENSEN

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION/DESIGN HYDROLOGY SECTION

CONFERENCE RECAP

DRAINAGE FILE/ZONE ATLAS PAGE NO.: J11 DATE: 9-30-87
PLANNING DIVISION NOS: EPC: _____ DRB: _____
SUBJECT: Lava Land Elementary School parking Lot
STREET ADDRESS (IF KNOWN): 57th & Clarendon
SUBDIVISION NAME: Lava Land Elementary

APPROVAL REQUESTED:

____ PRELIMINARY PLAT
____ SITE DEVELOPMENT PLAN
X OTHER
Drainage Permit

____ FINAL PLAT
____ BUILDING PERMIT
____ ROUGH GRADING

ATTENDANCE: WHO Jeff Mortenson REPRESENTING _____
Carla A. Montoya _____

FINDINGS:

- (1) Drainage plan per DPM
- (2) For drinking allowed
 - (A) minimize impact of domestic facilities
 - (B) not in a flood zone nor does it drain to a flood zone
 - (C) storm drain on 57th street and Bluewater

The undersigned agrees that the above findings are summarized accurately and are only subject to change if further investigation reveals that they are not reasonable or that they are based on inaccurate information.

SIGNED: Carla Montoya
TITLE: _____
DATE: 9-30-87

SIGNED: Jeffrey G. A.
TITLE: _____
DATE: 09-30-87

NOTE PLEASE PROVIDE A COPY OF THIS RECAP WITH THE DRAINAGE SUBMITTAL

INFORMATION SHEET

PROJECT TITLE LAVALAND ELEM. SCHOOL TYPE OF SUBMITTAL REVISED PLAN
 ZONE ATLAS PAGE NO. J-11 CITY ADDRESS 501 57TH ST. NW
 LEGAL DESCRIPTION ?

ENGINEERING FIRM TOM MANN & ASSOC. CONTACT JEFFREY G. MORTENSEN

ADDRESS 811 DALLAS NE PHONE 255-5611

OWNER APS CONTACT BILL McMILLIN

ADDRESS _____ PHONE _____

ARCHITECT LWAN-BELTRAN CONTACT ROGER LWAN

ADDRESS _____ PHONE 265-8885

SURVEYOR TOM MANN CONTACT J.G. MORTENSEN

ADDRESS _____ PHONE _____

CONTRACTOR NOT SELECTED CONTACT _____

ADDRESS _____ PHONE _____

PRE-DESIGN MEETING:

☒ YES

☐ NO

☐ COPY OF CONFERENCE RECAP SHEET PROVIDED

PLEASE CHECK TYPE OF APPROVAL EXPECTED WITH THIS SUBMITTAL:

☐ SKETCH PLAT APPROVAL

☐ PRELIMINARY PLAT APPROVAL

☐ SITE DEVELOPMENT PLAN APPROVAL

☐ FINAL PLAT APPROVAL

☒ BUILDING PERMIT APPROVAL

☐ CERTIFICATE OF OCCUPANCY APPROVAL

☐ ROUGH GRADING PERMIT APPROVAL

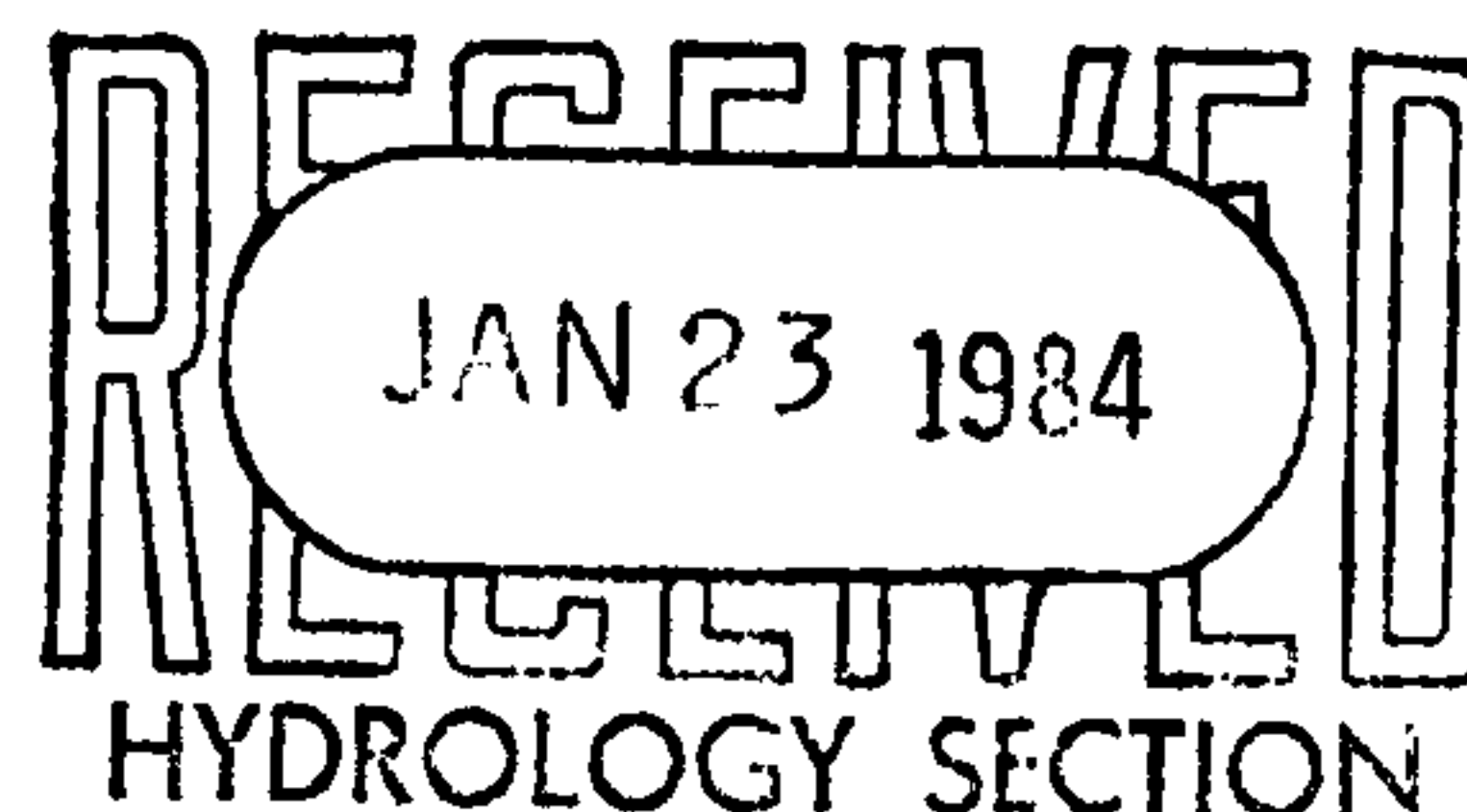
☐ GRADING/PAVING PERMIT APPROVAL

☐ OTHER _____ (SPECIFY)

ATTN: BERNIE MONTGOMERY

DATE SUBMITTED: 01/23/84

BY: J.G. MORTENSEN





City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

31191
JAN 18 1984

January 13, 1984

Mr. Jeffrey Mortensen
Tom Mann & Associates, Inc.
811 Dallas NE
Albuquerque, NM 87110

REF: GRADING AND DRAINAGE PLAN FOR LAVALAND ELEMENTARY SCHOOL (J11-D18)

Dear Mr. Mortensen:

Based on the information that you provided on your January 3, 1984 revised submittal, the above referenced drainage plan is approved.

The approved "Drainage Facilities Within City Right-of-Way" document must be attached to the construction sets before Hydrology will sign-off.

If you have any questions or comments, please feel free to call me at 766-7644.

Sincerely,

Bernie J. Montoya
Hydrologic Engineering Technician
CE

BJM:mrk



811 DALLAS, N.E. • ALBUQUERQUE • NEW MEXICO • 87110 • 505-265-5611

31191
December 30, 1983

Mr. Billy Goolsby, P.E.
Civil Engineer/Hydrology
City of Albuquerque
P.O. Box 1293
Albuquerque, New Mexico 87103

Re: Grading and Drainage Plan for Lavaland Elementary School
(J11-D18)

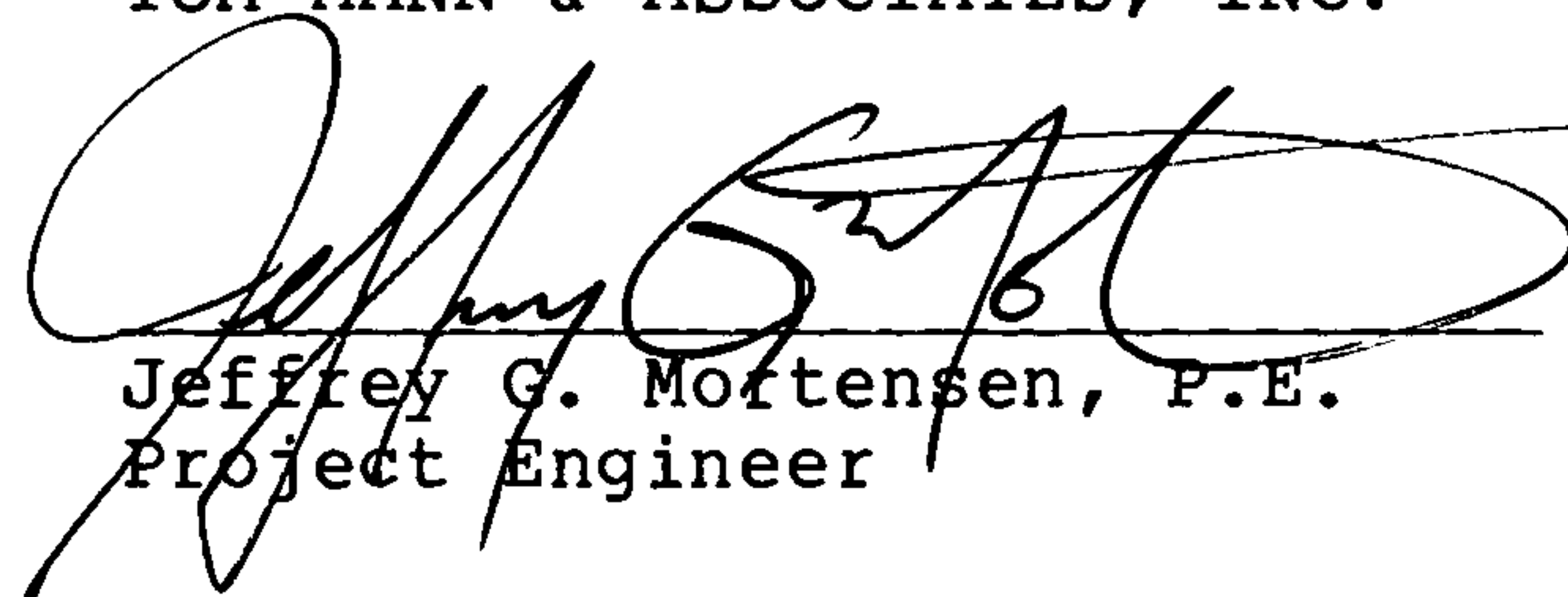
Dear Billy:

Transmitted herewith in response to your letter dated December 15, 1983, is a revised copy of the subject plan. I believe that the supplemental text and the supplemental calculations which appear on the drawing will adequately address your concerns.

If you should have any further questions or comments concerning this project, please do not hesitate to call.

Sincerely,

TOM MANN & ASSOCIATES, INC.



Jeffrey G. Mortensen, P.E.
Project Engineer

JGM:kl
Enc.

RECEIVED
JAN 03 1983
ENGINEERING



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

December 15, 1983

Mr. Jeffrey Mortensen
Tom Mann & Associates, Inc.
811 Dallas NE
Albuquerque, New Mexico 87110

RE: GRADING AND DRAINAGE PLAN FOR LAVALAND ELEMENTARY SCHOOL (J11-D18)
RECEIVED DECEMBER 1, 1983

Dear Jeff:

I have reviewed the above referenced plan and forward the following comments:

1. For future submittals, please patronize me by supplying all the information associated with the plan. Providing just the increase or decrease amounts do not really translate the total picture. How much total runoff is going to be generated by the site?
2. You have demonstrated that the pond can handle the additional runoff volume but, what is the total runoff volume? If the grate should become plugged will this pond hold all the runoff volume or will it spill out to other areas perhaps causing damage? What is the anticipated water surface elevation for the ponded condition? Will it back up into the buildings or spill out over the sidewalk and curb? Since the 4" PVC has a limited discharge capacity, what will be the depth of standing water? Depth over 18" has to be fenced.

Should you have questions or comments, regarding this review, please contact me.

Sincerely yours,

Billy Goolsby, P.E.
Billy Goolsby
Civil Engineer-Hydrology

BG/ca

MUNICIPAL DEVELOPMENT DEPARTMENT

C. Dwayne Sheppard, P.E.,

City Engineer

ENGINEERING DIVISION

Telephone (505) 766-7467

AN EQUAL OPPORTUNITY EMPLOYER

INFORMATION SHEET

PROJECT TITLE LAVANLAND ELEM. SCHOOL TYPE OF SUBMITTAL GRADING & DRAINAGE PLAN
 ZONE ATLAS PAGE NO. J-11914 CITY ADDRESS 501 57TH NW
 LEGAL DESCRIPTION ?
 ENGINEERING FIRM TOM MANN & ASSOC CONTACT JEFF MORTENSEN
 ADDRESS 811 DALLAS NE PHONE 245-5611
 OWNER APS CONTACT BILL McMillin
 ADDRESS _____ PHONE 242-5865
 ARCHITECT LUJAN - BELTRAN CONTACT ROGER LUJAN
 ADDRESS 8009 MARBLE NE PHONE 245-8885
 SURVEYOR TOM MANN & ASSOC. CONTACT J. MORTENSEN
 ADDRESS _____ PHONE _____
 CONTRACTOR NOT SELECTED CONTACT _____
 ADDRESS _____ PHONE _____
 DATE SUBMITTED 12/1/83
 BY JEFFREY G. MORTENSEN

Use this Information Sheet when submitting the following:

Drainage report or plan, conceptual grading and drainage plan, engineer's certification plan, erosion plan and grading plan. Provide the information applicable to _____ or submittal.

RECEIVED
 DEC 01 1983
 ENGINEERING



CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION



HYDROLOGY SECTION PROJ. NO. 1-11 DATE: 9/22/83

PLANNING DIVISION NO. _____

CONFERENCE RECAP

SUBJECT: LAUREL ELEMENTARY

	WHO	REPRESENTING
ATTENDANCE:	<u>JEFF MORTENSEN</u>	
	<u>F.T. REUBEN</u>	

FINDINGS: _____

1. DRAINAGE PLAN REQUIRED - MAINLY FOR THE PROPOSED
ADDITION AND THE AREA CONTAINING THE PROPOSED RUNOFF

2. PONDING REQUIRED BECAUSE OF INADEQUATE DRAINAGE
CONDITIONS - IT APPEARS STORM WATER RUNOFF
ENTERS DRIVE PROPER

The undersigned agrees that the above findings are summarized accurately and are only subject to change if further investigation reveals that they are not reasonable or that they are based on inaccurate information.

SIGNED: [Signature]

TITLE: _____

DATE: 9/22/83

SIGNED: [Signature]

TITLE: PROJECT ENGINEER

DATE: 9/22/83