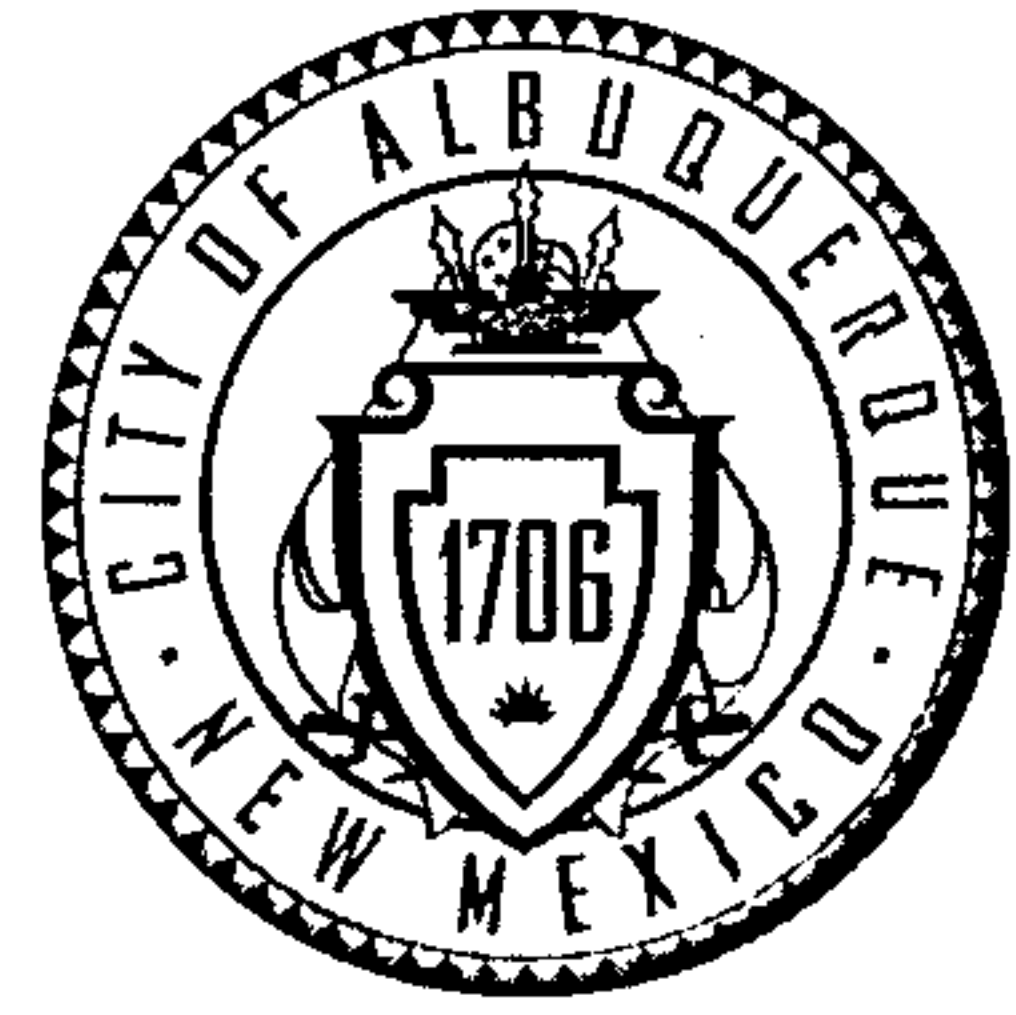


CITY OF ALBUQUERQUE



November 17, 2014

Eddy Losinski, PE
JEL & Associates, LLC
250 Bazan Loop
Corrales, NM 87048

Re: Montezuma Elementary School
3100 Indian School Rd. NE
Request Permanent C.O. - Accepted
Engineer's Stamp dated: 4-8-14 (G13D023B) 1/6 D009
Certification dated: 10-10-14

Dear Mr. Losinski,

Based on the Certification received 11/17/2014, the site is acceptable for release of Certificate of Occupancy by Hydrology.

If you have any questions, you can contact me at 924-3695 or Rudy Rael at 924-3977.

PO Box 1293

Albuquerque

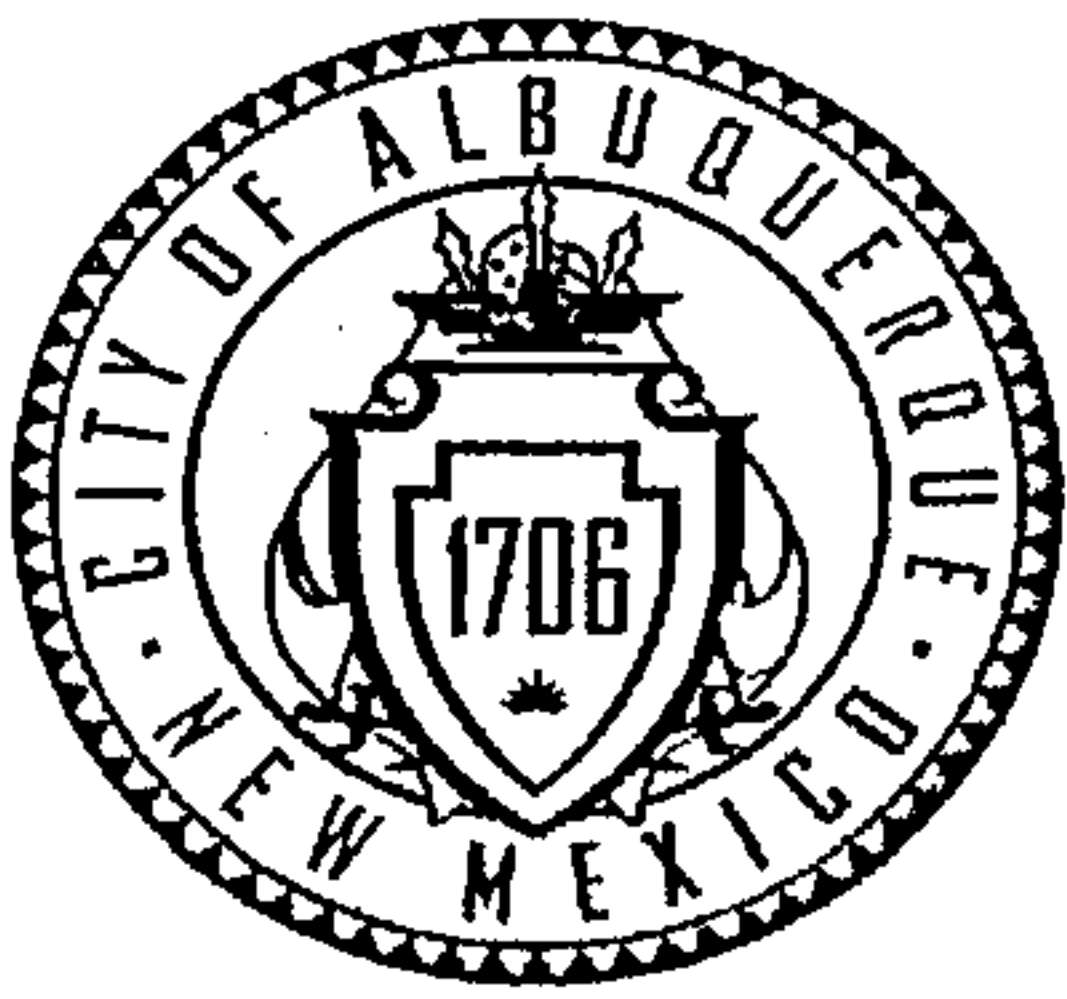
New Mexico 87103

Sincerely,

Curtis Cherne, P.E.
Principal Engineer, Planning Dept.
Development and Review Services

www.cabq.gov

C: RR/CC
email



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

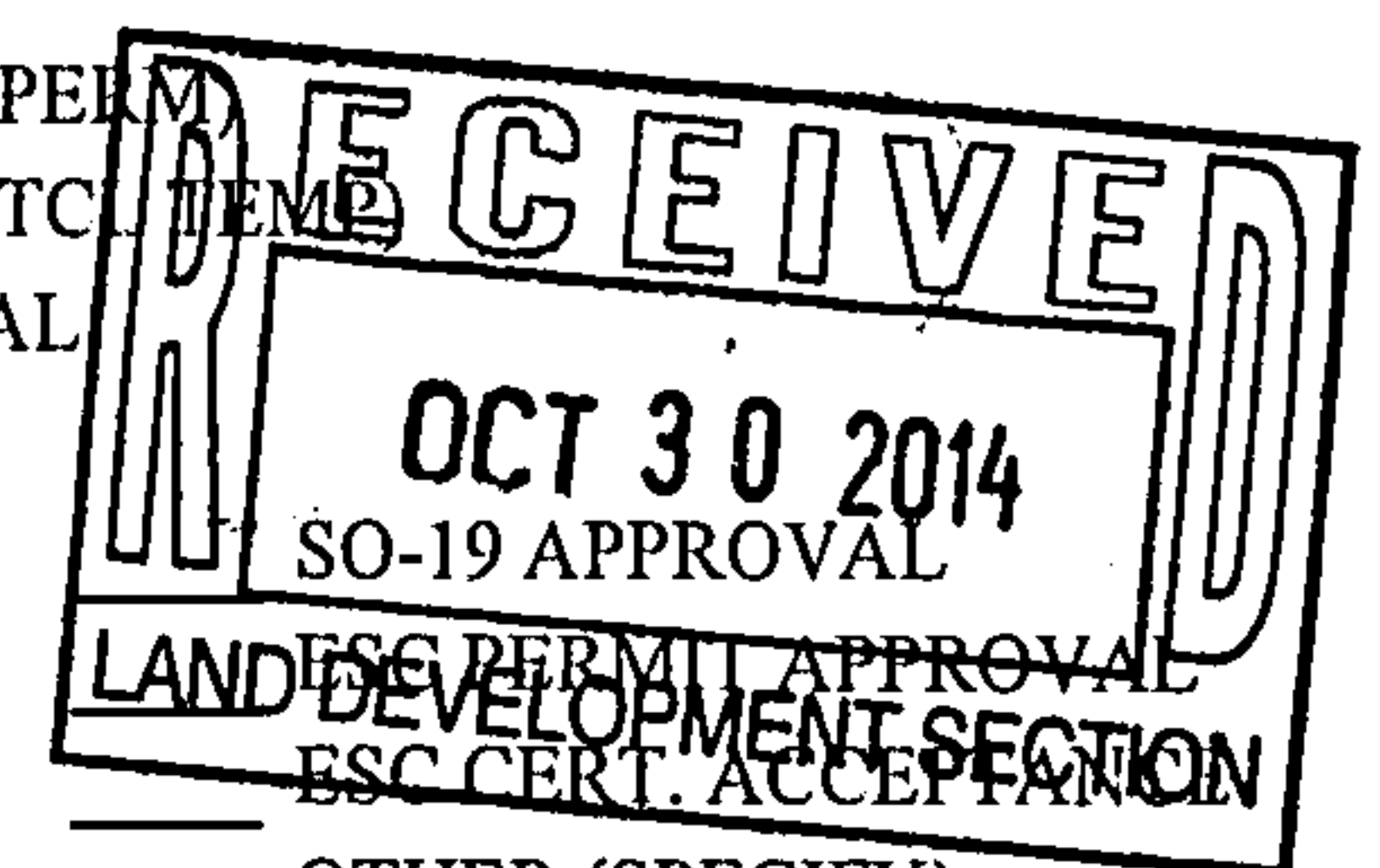
Project Title: Montezuma Elementary School Building Permit #: _____ City Drainage #: J16D009
DRB#: _____ EPC#: _____ Work Order#: _____
Legal Description: _____
City Address: 3100 Indian School NE, ABQ, 87106
Engineering Firm: JEL Associates, LLC Contact: Eddy Losinski
Address: 2500 Bogan Loop, Corrales, NM 87048
Phone#: (505) 823-1556 Fax#: (505) 823-2192 E-mail: jelassoc@comcast.net
Owner: Albuquerque Public Schools Contact: _____
Address: _____
Phone#: _____ Fax#: _____ E-mail: _____
Architect: _____ Contact: _____
Address: _____
Phone#: _____ Fax#: _____ E-mail: _____
Surveyor: Jeff Mortensen/High Mesa Contact: Chuck Calk
Address: 6010-B Midway Park NE, ABQ, NM 87109
Phone#: 345-4250 Fax#: 345-4254 E-mail: _____
Contractor: Westwind Landscape Const. Inc Contact: Tag Gay
Address: 2739 Vassar Place, NE, ABQ, NM 87109
Phone#: 881-8925 Fax#: 883-7052 E-mail: _____

TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
- ☐ DRAINAGE PLAN 1st SUBMITTAL
- ☐ DRAINAGE PLAN RESUBMITTAL
- ☐ CONCEPTUAL G & D PLAN
- ☐ GRADING PLAN
- ☐ EROSION & SEDIMENT CONTROL PLAN (ESC)
- ☒ ENGINEER'S CERT (HYDROLOGY)
- ☐ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT (TCL)
- ☐ ENGINEER'S CERT (TCL)
- ☐ ENGINEER'S CERT (DRB SITE PLAN)
- ☐ ENGINEER'S CERT (ESC)
- ☐ SO-19
- ☐ OTHER (SPECIFY) _____

CHECK TYPE OF APPROVAL/ACCEPTANCE 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
- ☐ CERTIFICATE OF OCCUPANCY (PERM)
- ☐ CERTIFICATE OF OCCUPANCY (TCL)
- ☐ FOUNDATION PERMIT APPROVAL
- ☐ BUILDING PERMIT APPROVAL
- ☐ GRADING PERMIT APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☐ WORK ORDER APPROVAL
- ☒ GRADING CERTIFICATION
- ☐ OTHER (SPECIFY) _____



WAS A PRE-DESIGN CONFERENCE ATTENDED: _____

Yes _____ No _____ Copy Provided _____

DATE SUBMITTED: 10/30/14

By: Eddy Losinski

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
4. **Erosion and Sediment Control Plan:** Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development

Rec'd electronic copy
on 11/12/2014

HIGH MESA Consulting Group

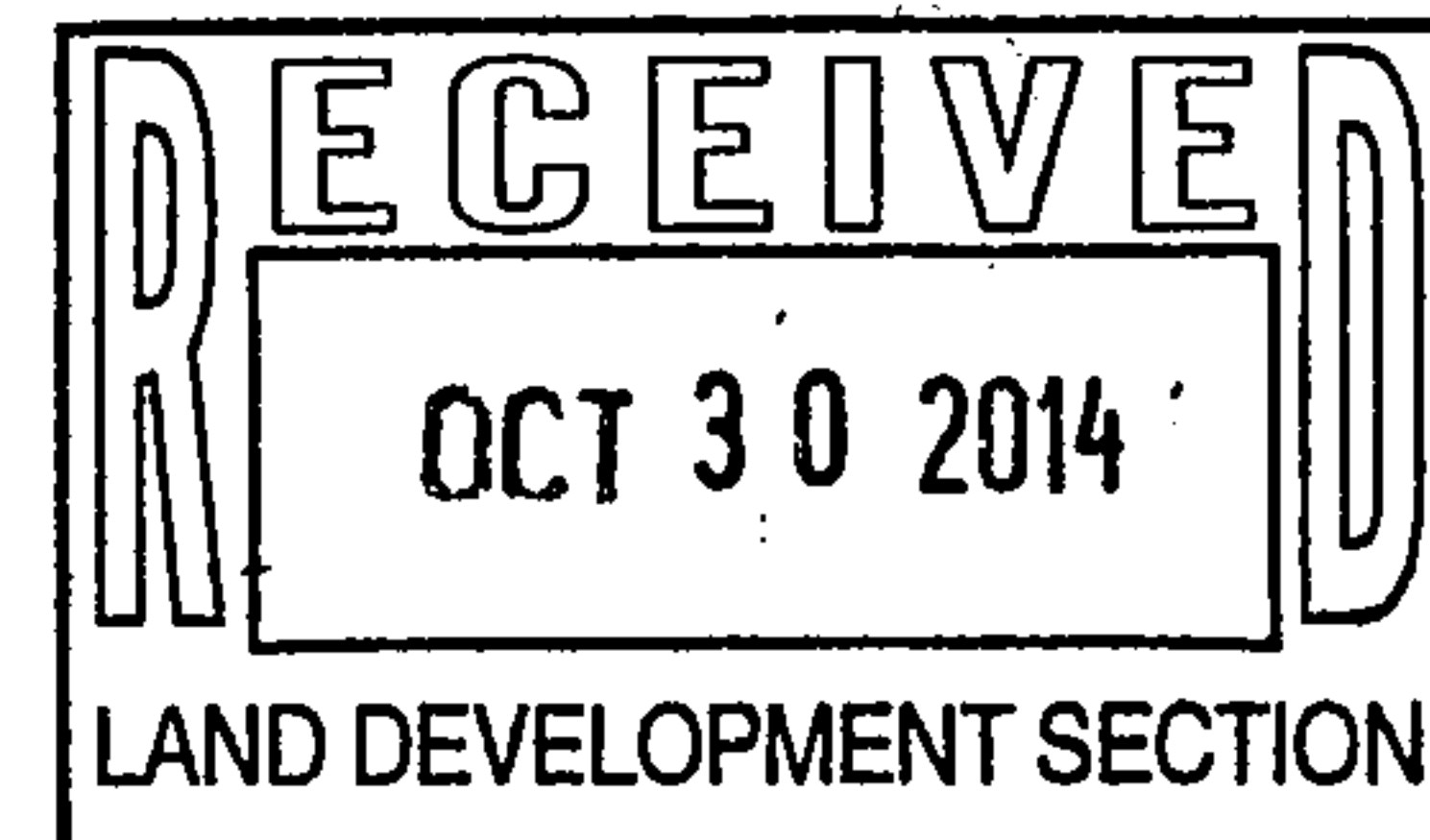
2014.043.1

October 29, 2014

Thomas A. Gay
Westwind Landscape Construction, Inc.
2739 Vassar Place NE
Albuquerque, NM 87107

Re: Montezuma ES Playing Field

Tag:



On September 15, 2014, we conducted a supplemental survey at the subject campus for the purpose of determining as-constructed elevations at locations requested by the engineer of record for the project. That information was transmitted to you in redline format. This letter shall serve as confirmation that the supplemental surveying was conducted under my direct supervision, and was conducted on the same elevation datum as the survey I certified on **March 22, 2007**.

A new survey has not been conducted for the design or construction of the recent turf playfield project constructed at the site. If you have questions regarding the information provided, please feel free to call.

Sincerely,

HIGH MESA CONSULTING GROUP




Charles G. Cala, Jr., P.S.
President

CGC

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.

6010-B Midway Park Blvd. NE • Albuquerque, New Mexico 87109 • Phone: 505.345.4250 • Fax: 505.345.4254 • www.highmesacg.com



JEL
& ASSOCIATES LLC

P.O. BOX 3180
250 BAZAN LOOP
CORRALES, NM 87048

jelassoc@comcast.net

April 9, 2014

City of Albuquerque
Hydrology Department
2400 Broadway Blvd. SE
Albuquerque, NM 87102

**RE: GRADING AND DRAINAGE REPORT FOR PROPOSED ARTIFICIAL
TURF FIELD AT MONTEZUMA ELEMENTARY SCHOOL.**

To Whom It May Concern:

JEL & Associates, LLC (JEL), has analyzed the above noted site located at 3100 Indian School Rd NE, Albuquerque, NM 87106 with respect to storm drainage conveyance and offers the following commentary and analysis summary for your review and approval. As a matter of background this site is presently occupied by the Montezuma Elementary School and operated through the City of Albuquerque Public Schools Department. The school has had numerous additions over the years with the most recent being performed in July of 2008. Prior to the latest construction (a permanent classroom structure) the area proposed for the new artificial turf play field was utilized for barracks in which classes were taught. In 2009 the old barracks were removed and it has remained vacant packed dirt since that time. During the "pre-Design" held between JEL and Mr. Greg Olson on January 21, 2014 it was discovered that the last known Grading Plan for the facility on file with the City was performed by Jeff Mortenson under project # J16-D009. For some reason the Grading Plan submitted and approved by JEL in 2008 was not located. Per Mr. Olson's email directive post that meeting this plan addresses those comments and concerns.

A Zone Atlas Map (J-16-Z) identifying the location is attached for your use. In addition, the corresponding FIRM Map 35001C0351H, Dated August 16, 2012 is also attached. As can be seen the property lies in the area determined to be outside the 100-year floodplain.

DRAINAGE PLAN

Site Location: As shown by the Vicinity Map J-16-Z, the 1.52-acre site is located at 3100 Indian School Rd NE, Albuquerque, NM 87106 in the northeast heights area of Albuquerque/Bernalillo County.

Legal Description: Public Tract within, Township 10 North, Range 3 East Section 15, Bernalillo County, New Mexico. The property shown on this plan is given for information only to describe the project limits. Property information shown hereon does not constitute a boundary survey. The area of the tract proposed to be impacted by the addition of the artificial turf field is approximately 1.85 acres. The total acreage of the parcel is 8.96 acres $\pm$.



Survey: The survey of topography was prepared by the firm of Jeff Mortenson and Associates in and compiled from field measurements taken in February 1996. The Benchmark for this property is based on several City of Albuquerque Control Station brass caps. Based on a review of the site the removal of the portable buildings resulted in minimal if any change to the surrounding grades. This area is well established along all of its boundaries as it ties into existing streets and private property fences.

Flood Zone: As shown by Panel 351 of 825, Map Number 35001C0351H, Dated August 16, 2012 of the National Flood Insurance Program Flood Boundary and Floodway Maps for the City of Albuquerque, New Mexico, this site lies outside the limits of the 100-year storm frequency event. Adjoining property is protected from the 1% annual event via storm drains that contain the collected storm water and discharge it to the I-25 diversion channel.

Hydrologic Methods: The calculation attached analyze developed conditions for the 100-year, 6-hour and 100-year 10-day rainfall events. The process outlined in the DPM, Section 22.2 for Zone 2 was used to quantify the peak flow rates and volumes. As shown by these calculations, the proposed condition versus the existing condition generates 1.07-cfs less storm water flow and 3,268 cubic feet less volume for this site. This is due to the fact that the installation method of the artificial turf traps water similar to a soil type "B" instead of the soil type "C" that is presently on the site.

Existing Conditions: Offsite runoff does not impact the site based on either field observation or topographic measurement. Adjacent runoff on the east is contained within the residential properties due to the installation of a solid block wall that runs the entire length of the easterly property boundary. All other offsite flows are contained within the streets located on the south, west and north. The Basins identified on this map are for the area impacted by the project. Basins 1-3 are for the Pre-Development Condition and Basins A-C represent the Post-Development condition. Basin 1 and Basin A remain unchanged from pre-development to Post Development and these flows are collected within the existing storm inlet located within the play area. Basins 2 and 3 convey flow to the north via sheet flow or within a shallow swale located along the easterly property boundary. All of the flow, either sheet or channel, is discharged into the main parking lot located in front of the school on the north side. Flows from the parking lot discharge directly into Indian School Road where they are conveyed to the east and into the existing storm drain system.

Proposed Conditions: Albuquerque Public Schools proposes to install a 162' by 144' artificial turf play field as shown on the drawing. In addition, a sidewalk will surround the field and a concrete sidewalk and pad will be installed to provide ADA access to the field. Significant additional landscaping will be installed to provide shade on three sides of the field, specifically the south, east and west. No change in discharge location will occur as a result of this drainage plan and the proposed improvements other than the reduction in storm water runoff previously noted.



Erosion Control Measures/SWPPP/BMPs: The contractor shall ensure that no soil erodes from the site into public right-of-way or onto private property. This can be achieved by constructing temporary silt fences at the property lines and wetting soil to keep it from blowing. A copy of the BMP for protecting the site is being submitted by others and shall be fully implemented during the time of construction. The contractor shall promptly clean up any material excavated so that the excavated material is not susceptible to being washed down gradient. A SWPPP is anticipated under this action and is being prepared for submission and review by others. The contractor shall secure a Topsoil Disturbance Permit prior to beginning construction.

Should you have any questions please feel free to phone me at (505) 823-1556.

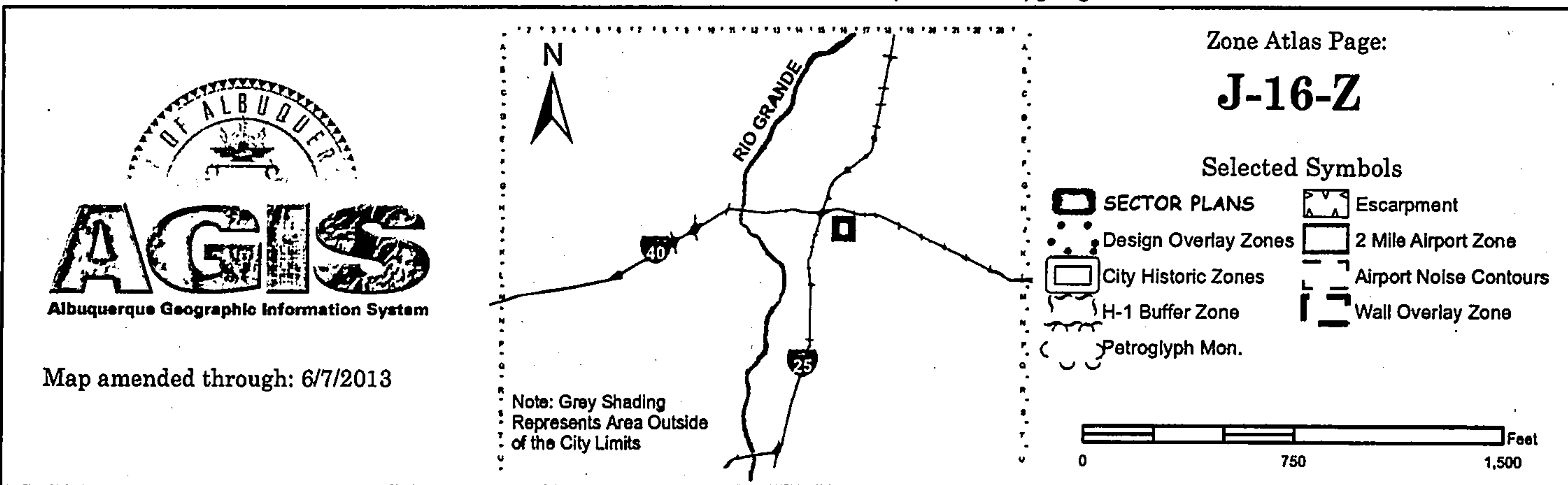
Sincerely,

Edward Losinski, P.E.





For more current information and details visit: <http://www.cabq.gov/gis>







MAP SCALE 1" = 500'



PANEL 0351H

FIRM

FLOOD INSURANCE RATE MAP
BERNALILLO COUNTY,
NEW MEXICO
AND INCORPORATED AREAS

PANEL 351 OF 825

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS.

COMMUNITY	NUMBER	PANEL	SUFFIX
ALBUQUERQUE, CITY OF	350002	0351	H
BERNALILLO COUNTY UNINCORPORATED AREAS	350001	0351	H

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.



MAP NUMBER
35001C0351H

MAP REVISED
AUGUST 16, 2012

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

Pre-Development

Basin

1 # A
past

Area
10,100 #
0.23 ac

Soil Type %

A 0
B 10
C 60
D 30

0.81 cfs

$V_{100}(10\text{-day}) = 1,563 \text{ ft}^3$
 $V_{100}(24\text{-hr}) = 1,262 \text{ ft}^3$

2

57,400 #
1.32 ac

A 0
B 20
C 45
D 35

4.64 cfs

$V_{100}(10\text{d}) = 9,423 \text{ ft}^3$
 $V_{100}(24\text{hr}) = 7,410 \text{ ft}^3$

3

13,120 #
0.30 ac

A 0
B 0
C 80
D 20

1.04 cfs

$V_{100}(10\text{d}) = 1,795 \text{ ft}^3$
 $V_{100}(24\text{hr}) = 1,533 \text{ ft}^3$

Post-Development

B

61,336 #
1.41 ac

A 0
B 55
C 30
D 15

4.09 cfs

$V_{100}(10\text{d}) = 6,787 \text{ ft}^3$
 $V_{100}(24\text{hr}) = 5,866 \text{ ft}^3$

C

9,184 #
0.21 ac

A 0
B 35
C 45
D 20

0.66 cfs

$V_{100}(10\text{d}) = 1,163 \text{ ft}^3$
 $V_{100}(24\text{hr}) = 980 \text{ ft}^3$

Pre-Development Runoff

$Q_{100} = 6.49 \text{ cfs}$

$V_{100}(10\text{d}) = 12,781 \text{ ft}^3$

$V_{100}(24\text{hr}) = 10,205 \text{ ft}^3$

Post-Development

$Q_{100} = 5.56$

$V_{100}(10\text{d}) = 9,513 \text{ ft}^3$

$V_{100}(24\text{hr}) = 8,108 \text{ ft}^3$

REVISED 11-20-07

TOTAL AREA (acre)	0.23	Allowable Discharge (cfs)	200.00
Precipitation Zone	2	Allowable Discharge Vol. (ft ³)	60262819
TOTAL AREA (ft ²)	10019	Required Pond Volume (ft ³)	60263981

Treatment Type	Acreage	Square Footage	Treatment %
A	0.00	0	0.0%
B	0.02	1,002	10.0%
C	0.14	6,011	60.0%
D	0.07	3,006	30.0%

6-hour Storm	Peak Method	Rational Method
100-year Peak Discharge (cfs)	0.81	0.81
10-year Peak Discharge (cfs)	0.47	0.47
2-year Peak Discharge (cfs)	0.21	0.21

Excess Precipitation (in.) 100-year	1.39
Excess Precipitation (in.) 10-year	0.74
Excess Precipitation (in.) 2-year	0.33

100-year 6-hr Runoff Volume (acre-feet, ft ³)	0.03	1,162
10-year 6-hr Runoff Volume (acre-feet, ft ³)	0.01	619
2-year 6-hr Runoff Volume (acre-feet, ft ³)	0.01	278

P _{1-hr} (in.)	2.01
P _{6-hr} (in.)	2.35
P _{24-hr} (in.)	2.75
P _{4-day} (in.)	3.30
P _{10-day} (in.)	3.95

100-year 10-day Runoff Volume (acre-feet, ft ³)	0.04	1,563
100-year 4-day Runoff Volume (acre-feet, ft ³)	0.03	1,400
100-year 24-hr Runoff Volume (acre-feet, ft ³)	0.03	1,262

Pipe Diameter	18.00	in
Slope	1.50%	
Manning Coefficient	0.013	
Pipe Area	1.77	ft ²
Perimeter	4.71	ft
Hydraulic Radius	0.375	ft
Flow Capacity	12.9	cfs

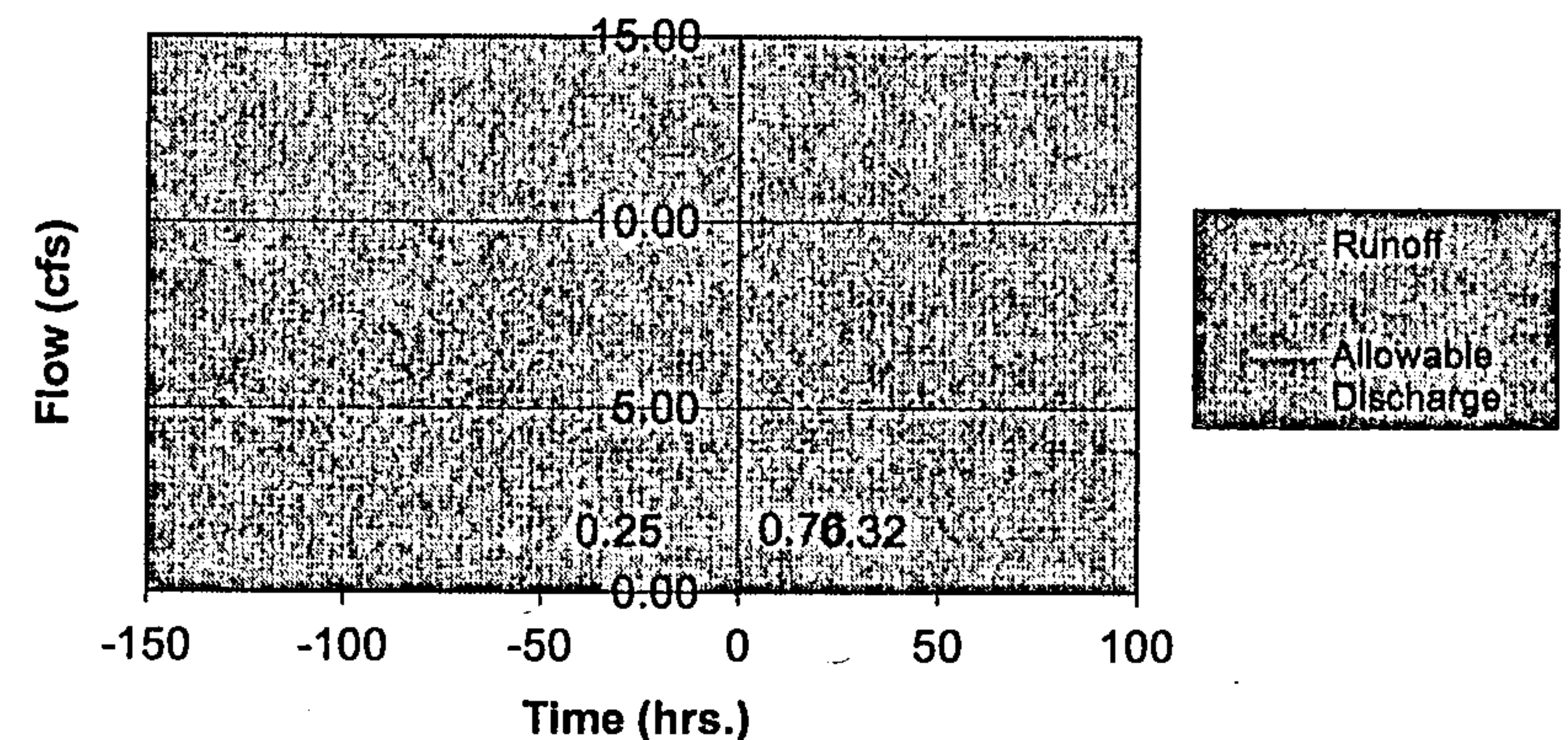
SOLVE FOR FLOW IN A TRAPEZOIDAL CHANNEL WITH KNOWN DEPTH

Depth	10.00	feet
Top Width	1500.00	feet
Bottom Width	500.00	feet
Channel Slope	1.00%	
Manning Coefficient	0.013	
Calculated Flow Capacity	567577.5	cfs

SOLVE FOR DEPTH IN A TRAPEZOIDAL CHANNEL WITH KNOWN FLOW

Required Flow	26950	cfs
Depth Increment	1	feet
Initial Depth Assumption	0.66	feet
High Flow (cfs) at Depth (ft.)	36754.21	2.66
Low Flow (cfs) at Depth (ft.)	15315.50	1.66
Calculated Flow (cfs) at Depth (ft.)	28034.9	2.16

Hydrograph (time labels shown)



Basin 1 & Basin A
Pre and Post Development

REVISED 11-20-07

TOTAL AREA (acre)	1.32	Allowable Discharge (cfs)	200.00
Precipitation Zone	2	Allowable Discharge Vol. (ft ³)	9850028
TOTAL AREA (ft ²)	57499	Required Pond Volume (ft ³)	9856768

Treatment Type	Acres	Square Footage	Treatment %
A	0.00	0	0.0%
B	0.28	11,500	20.0%
C	0.59	26,875	45.0%
D	0.46	20,125	35.0%

6-hour Storm	Peak Method	Rational Method
100-year Peak Discharge (cfs)	4.64	4.63
10-year Peak Discharge (cfs)	2.72	2.71
2-year Peak Discharge (cfs)	1.24	1.23

Excess Precipitation (in.) 100-year	1.41
Excess Precipitation (in.) 10-year	0.76
Excess Precipitation (in.) 2-year	0.35

100-year 6-hr Runoff Volume (acre-feet, ft ³)	0.15	6,739
10-year 6-hr Runoff Volume (acre-feet, ft ³)	0.08	3,637
2-year 6-hr Runoff Volume (acre-feet, ft ³)	0.04	1,667

P _{1-hr} (in.)	2.01
P _{6-hr} (in.)	2.35
P _{24-hr} (in.)	2.75
P _{4-day} (in.)	3.30
P _{10-day} (in.)	3.95

100-year 10-day Runoff Volume (acre-feet, ft ³)	0.22	9,423
100-year 4-day Runoff Volume (acre-feet, ft ³)	0.19	8,333
100-year 24-hr Runoff Volume (acre-feet, ft ³)	0.17	7,410

Pipe Diameter	18.00	in
Slope	1.50%	
Manning Coefficient	0.013	
Pipe Area	1.77	ft ²
Perimeter	4.71	ft
Hydraulic Radius	0.375	ft
Flow Capacity	12.9	cfs

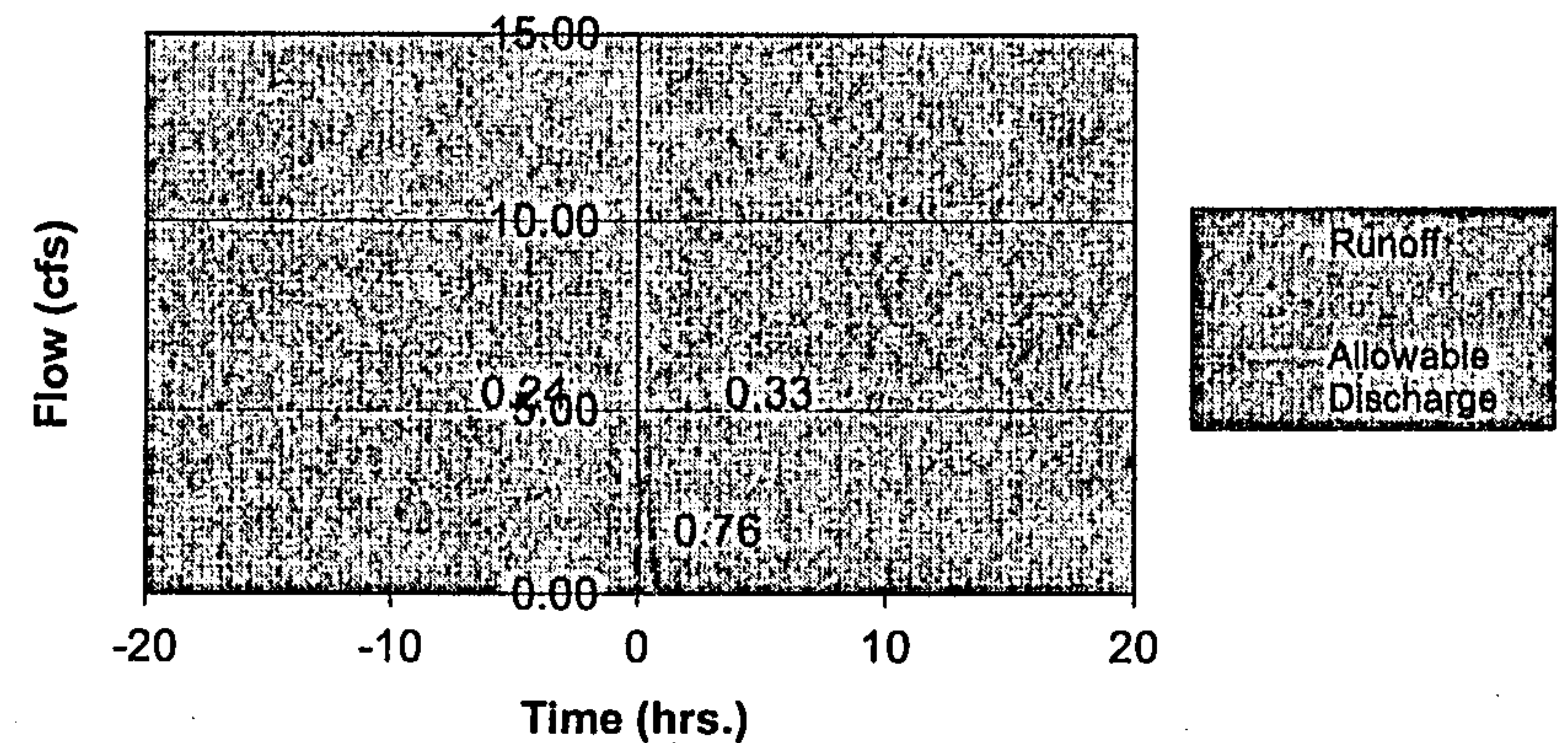
SOLVE FOR FLOW IN A TRAPEZOIDAL CHANNEL WITH KNOWN DEPTH

Depth	10.00	feet
Top Width	1500.00	feet
Bottom Width	500.00	feet
Channel Slope	1.00%	
Manning Coefficient	0.013	
Calculated Flow Capacity	567677.5	cfs

SOLVE FOR DEPTH IN A TRAPEZOIDAL CHANNEL WITH KNOWN FLOW

Required Flow	25950	cfs
Depth Increment	1	feet
Initial Depth Assumption	0.66	feet
High Flow (cfs) at Depth (ft.)	36754.21	2.66
Low Flow (cfs) at Depth (ft.)	15315.50	1.66
Calculated Flow (cfs) at Depth (ft.)	26034.9	2.16

Hydrograph (time labels shown)



Basin 2 Pre-Development

REVISED 11-20-07

TOTAL AREA (acre)	0.30	Allowable Discharge (cfs)	100.00
Precipitation Zone	2	Allowable Discharge Vol. (ft ³)	12105022
TOTAL AREA (ft ²)	13068	Required Pond Volume (ft ³)	12105469

Treatment Type	Acres	Square Footage	Treatment %
A	0.00	0	0.0%
B	0.00	0	0.0%
C	0.24	10,454	80.0%
D	0.06	2,614	20.0%

6-hour Storm	Peak Method	Rational Method
100-year Peak Discharge (cfs)	1.04	1.03
10-year Peak Discharge (cfs)	0.60	0.60
2-year Peak Discharge (cfs)	0.26	0.25

Excess Precipitation (in.) 100-year	1.33
Excess Precipitation (in.) 10-year	0.68
Excess Precipitation (in.) 2-year	0.28

100-year 6-hr Runoff Volume (acre-feet, ft ³)	0.03	1,446
10-year 6-hr Runoff Volume (acre-feet, ft ³)	0.02	745
2-year 6-hr Runoff Volume (acre-feet, ft ³)	0.01	303

P _{1-hr} (in.)	2.01
P _{6-hr} (in.)	2.35
P _{24-hr} (in.)	2.75
P _{1-day} (in.)	3.30
P _{10-day} (in.)	3.95

100-year 10-day Runoff Volume (acre-feet, ft ³)	0.04	1,795
100-year 4-day Runoff Volume (acre-feet, ft ³)	0.04	1,653
100-year 24-hr Runoff Volume (acre-feet, ft ³)	0.04	1,533

Pipe Diameter	18.00	in
Slope	1.50%	
Manning Coefficient	0.013	
Pipe Area	1.77	ft ²
Perimeter	4.71	ft
Hydraulic Radius	0.375	ft
Flow Capacity	12.9	cfs

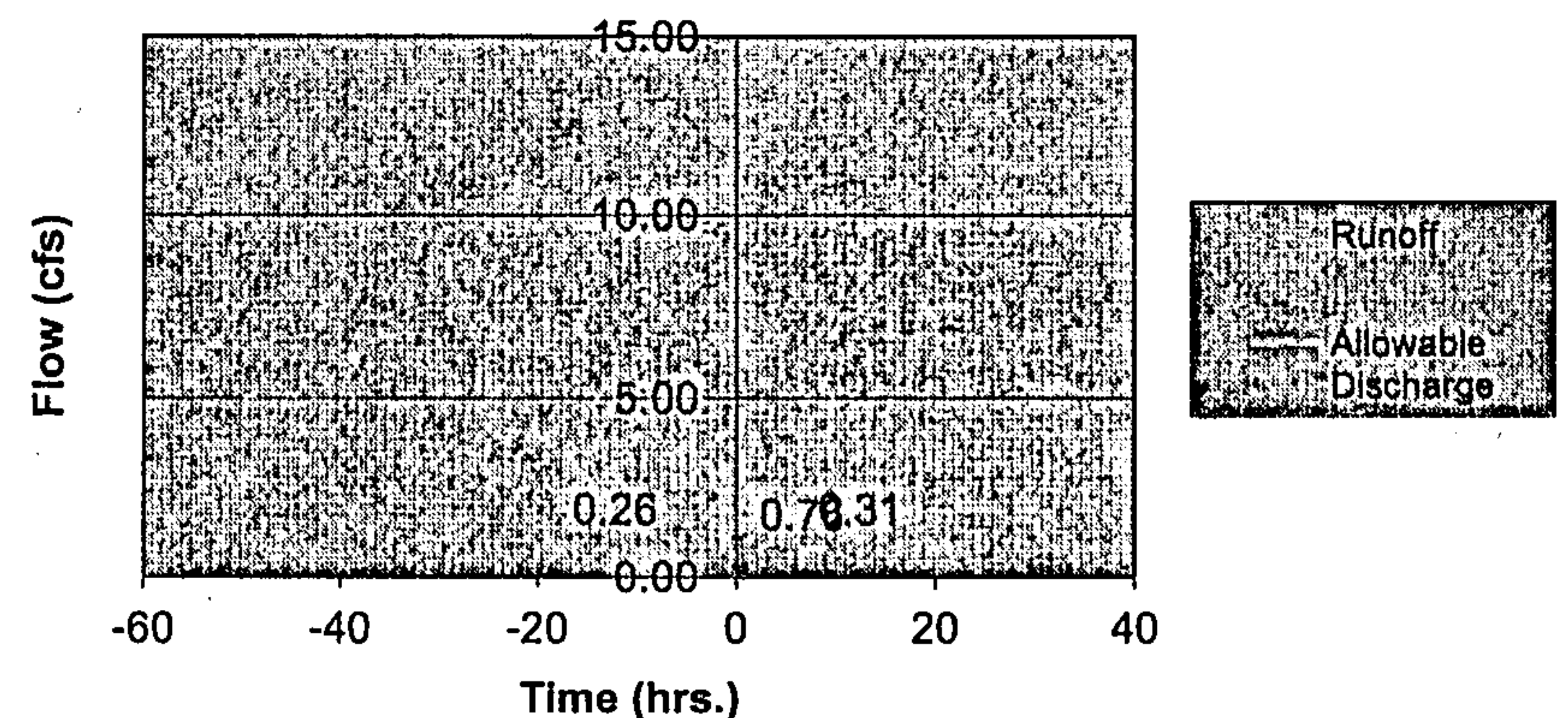
SOLVE FOR FLOW IN A TRAPEZOIDAL CHANNEL WITH KNOWN DEPTH

Depth	10.00	feet
Top Width	1500.00	feet
Bottom Width	500.00	feet
Channel Slope	1.00%	
Manning Coefficient	0.013	
Calculated Flow Capacity	567677.5	cfs

SOLVE FOR DEPTH IN A TRAPEZOIDAL CHANNEL WITH KNOWN FLOW

Required Flow	25950	cfs
Depth Increment	0.1	feet
Initial Depth Assumption	0.66	feet
High Flow (cfs) at Depth (ft.)	36754.21	2.66
Low Flow (cfs) at Depth (ft.)	18315.50	1.66
Calculated Flow (cfs) at Depth (ft.)	26034.9	2.16

Hydrograph (time labels shown)



Basin 3 Pre-Development

REVISED 11-20-07

TOTAL AREA (acre)	1.41	Allowable Discharge (cfs)	200.00
Precipitation Zone	2	Allowable Discharge Vol. (ft ³)	12054603
TOTAL AREA (ft ²)	61420	Required Pond Volume (ft ³)	12060161

Treatment Type	Acreage	Square Footage	Treatment %
A	0.00	0	0.0%
B	0.78	33,781	55.0%
C	0.42	18,426	30.0%
D	0.21	9,213	15.0%

6-hour Storm	Peak Method	Rational Method
100-year Peak Discharge (cfs)	4.09	4.08
10-year Peak Discharge (cfs)	2.12	2.13
2-year Peak Discharge (cfs)	0.71	0.71

Excess Precipitation (in.) 100-year	1.09
Excess Precipitation (in.) 10-year	0.51
Excess Precipitation (in.) 2-year	0.17

100-year 6-hr Runoff Volume (acre-feet, ft ³)	0.13	5,558
10-year 6-hr Runoff Volume (acre-feet, ft ³)	0.06	2,615
2-year 6-hr Runoff Volume (acre-feet, ft ³)	0.02	893

P _{1-hr} (in.)	2.01
P _{6-hr} (in.)	2.35
P _{24-hr} (in.)	2.75
P _{4-day} (in.)	3.30
P _{10-day} (in.)	3.95

100-year 10-day Runoff Volume (acre-feet, ft ³)	0.16	6,787
100-year 4-day Runoff Volume (acre-feet, ft ³)	0.14	6,288
100-year 24-hr Runoff Volume (acre-feet, ft ³)	0.13	5,868

Pipe Diameter	18.00	in
Slope	1.50%	
Manning Coefficient	0.013	
Pipe Area	1.77	ft ²
Perimeter	4.71	ft
Hydraulic Radius	0.375	ft
Flow Capacity	12.9	cfs

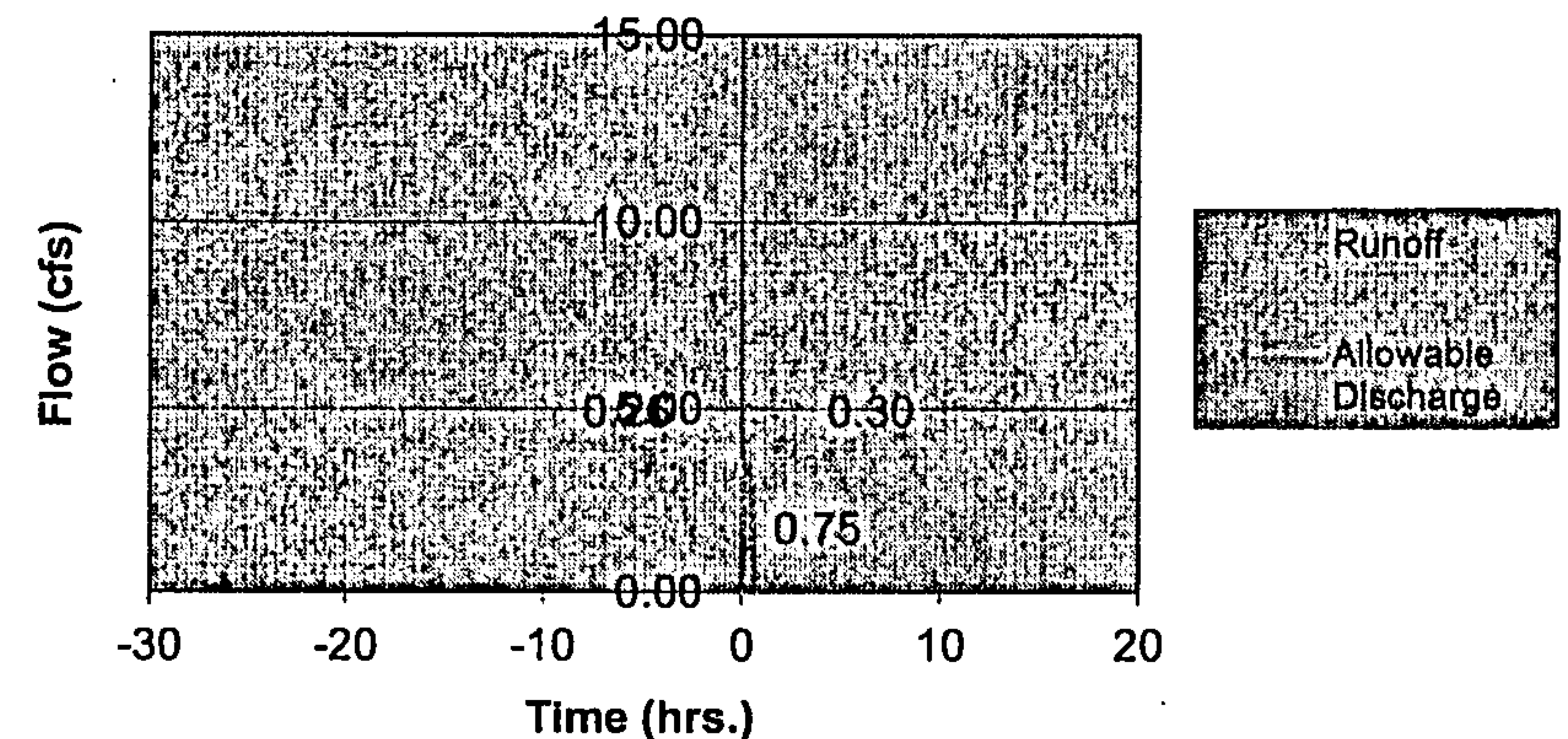
SOLVE FOR FLOW IN A TRAPEZOIDAL CHANNEL WITH KNOWN DEPTH

Depth	10.00	feet
Top Width	1500.00	feet
Bottom Width	500.00	feet
Channel Slope	1.00%	
Manning Coefficient	0.013	
Calculated Flow Capacity	567677.5	cfs

SOLVE FOR DEPTH IN A TRAPEZOIDAL CHANNEL WITH KNOWN FLOW

Required Flow	25950	cfs
Depth Increment	1	feet
Initial Depth Assumption	0.66	feet
High Flow (cfs) at Depth (ft.)	36754.21	2.66
Low Flow (cfs) at Depth (ft.)	15315.50	1.66
Calculated Flow (cfs) at Depth (ft.)	26034.9	2.16

Hydrograph (time labels shown)



Basin B Post Development

REVISED 11-20-07

TOTAL AREA (acre)	0.21	Allowable Discharge (cfs)	100.00
Precipitation Zone	2	Allowable Discharge Vol. (ft ³)	18979948
TOTAL AREA (ft ²)	9148	Required Pond Volume (ft ³)	18980865

Treatment Type	Acres	Square Footage	Treatment %
A	0.00	0	0.0%
B	0.07	3,202	35.0%
C	0.09	4,116	45.0%
D	0.04	1,830	20.0%

6-hour Storm	Peak Method	Rational Method
100-year Peak Discharge (cfs)	0.66	0.66
10-year Peak Discharge (cfs)	0.36	0.36
2-year Peak Discharge (cfs)	0.14	0.14

Excess Precipitation (in.) 100-year	1.21
Excess Precipitation (in.) 10-year	0.60
Excess Precipitation (in.) 2-year	0.23

100-year 6-hr Runoff Volume (acre-feet, ft ³)	0.02	919
10-year 6-hr Runoff Volume (acre-feet, ft ³)	0.01	457
2-year 6-hr Runoff Volume (acre-feet, ft ³)	0.00	177

P _{1-hr} (in.)	2.01
P _{6-hr} (in.)	2.35
P _{24-hr} (in.)	2.75
P _{2-day} (in.)	3.30
P _{10-day} (in.)	3.95

100-year 10-day Runoff Volume (acre-feet, ft ³)	0.03	1,183
100-year 4-day Runoff Volume (acre-feet, ft ³)	0.02	1,064
100-year 24-hr Runoff Volume (acre-feet, ft ³)	0.02	980

Pipe Diameter	18.00	in
Slope	1.50%	
Manning Coefficient	0.013	
Pipe Area	1.77	ft ²
Perimeter	4.71	ft
Hydraulic Radius	0.375	ft
Flow Capacity	12.9	cfs

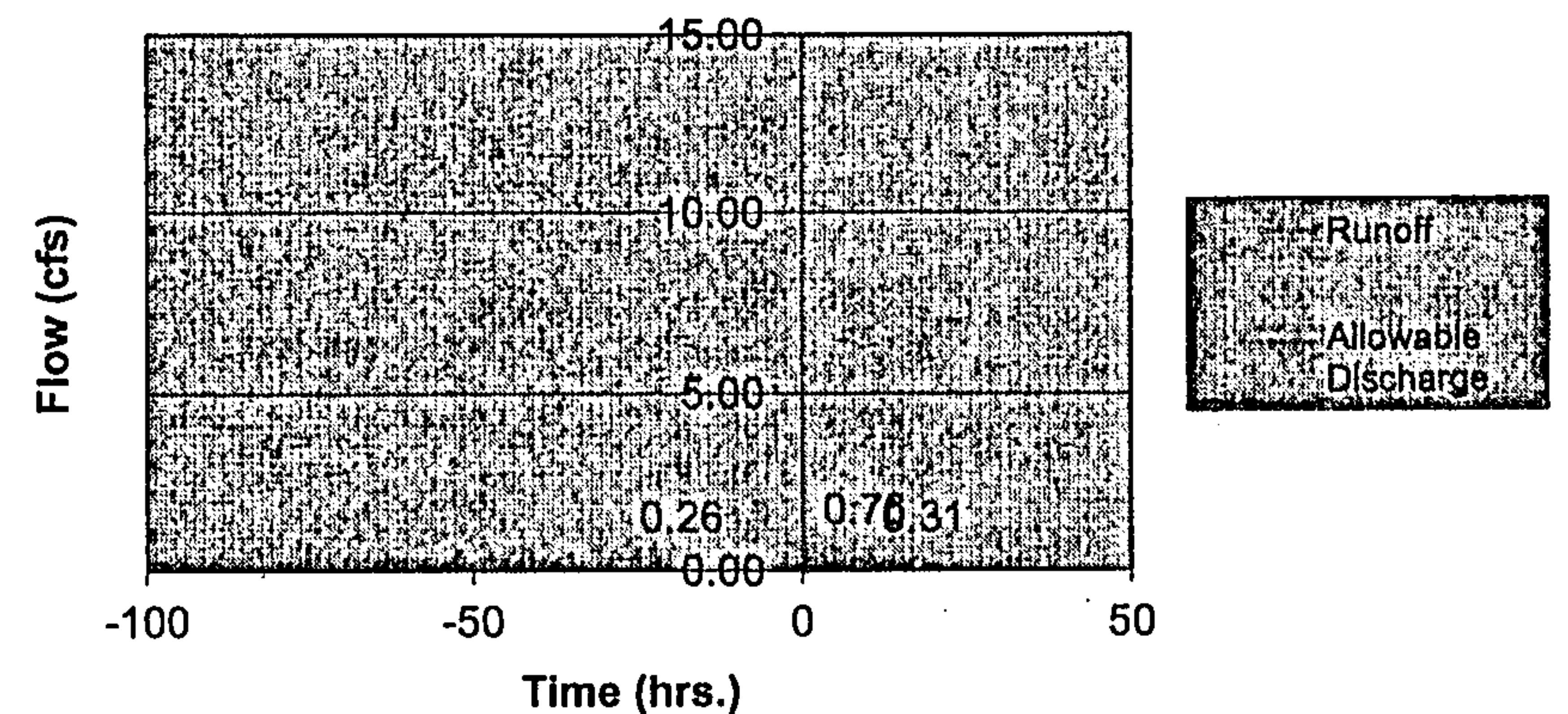
SOLVE FOR FLOW IN A TRAPEZOIDAL CHANNEL WITH KNOWN DEPTH

Depth	10.00	feet
Top Width	1500.00	feet
Bottom Width	500.00	feet
Channel Slope	1.00%	
Manning Coefficient	0.013	
Calculated Flow Capacity	567677.5	cfs

SOLVE FOR DEPTH IN A TRAPEZOIDAL CHANNEL WITH KNOWN FLOW

Required Flow	25950	cfs
Depth Increment	1	feet
Initial Depth Assumption	0.66	feet
High Flow (cfs) at Depth (ft.)	36784.21	2.66
Low Flow (cfs) at Depth (ft.)	15315.50	1.66
Calculated Flow (cfs) at Depth (ft.)	26034.9	2.16

Hydrograph (time labels shown)



Basin C Post Development

REVISED 11-20-07

TOTAL AREA (acre)	1.41	Allowable Discharge (cfs)	200.00
Precipitation Zone	2	Allowable Discharge Vol. (ft³)	12084603
TOTAL AREA (ft²)	61420	Required Pond Volume (ft³)	12080161

Treatment Type	Acreage	Square Footage	Treatment %
A	0.00	0	0.0%
B	0.78	33,781	55.0%
C	0.42	18,426	30.0%
D	0.21	9,213	15.0%

6-hour Storm	Peak Method	Rational Method
100-year Peak Discharge (cfs)	4.09	4.08
10-year Peak Discharge (cfs)	2.12	2.13
2-year Peak Discharge (cfs)	0.71	0.71

Excess Precipitation (in.) 100-year	1.09
Excess Precipitation (in.) 10-year	0.51
Excess Precipitation (in.) 2-year	0.17

100-year 6-hr Runoff Volume (acre-feet, ft ³)	0.13	6,558
10-year 6-hr Runoff Volume (acre-feet, ft ³)	0.06	2,815
2-year 6-hr Runoff Volume (acre-feet, ft ³)	0.02	893

P _{1-hr} (in.)	2.01
P _{6-hr} (in.)	2.35
P _{24-hr} (in.)	2.78
P _{4-day} (in.)	3.30
P _{10-day} (in.)	3.95

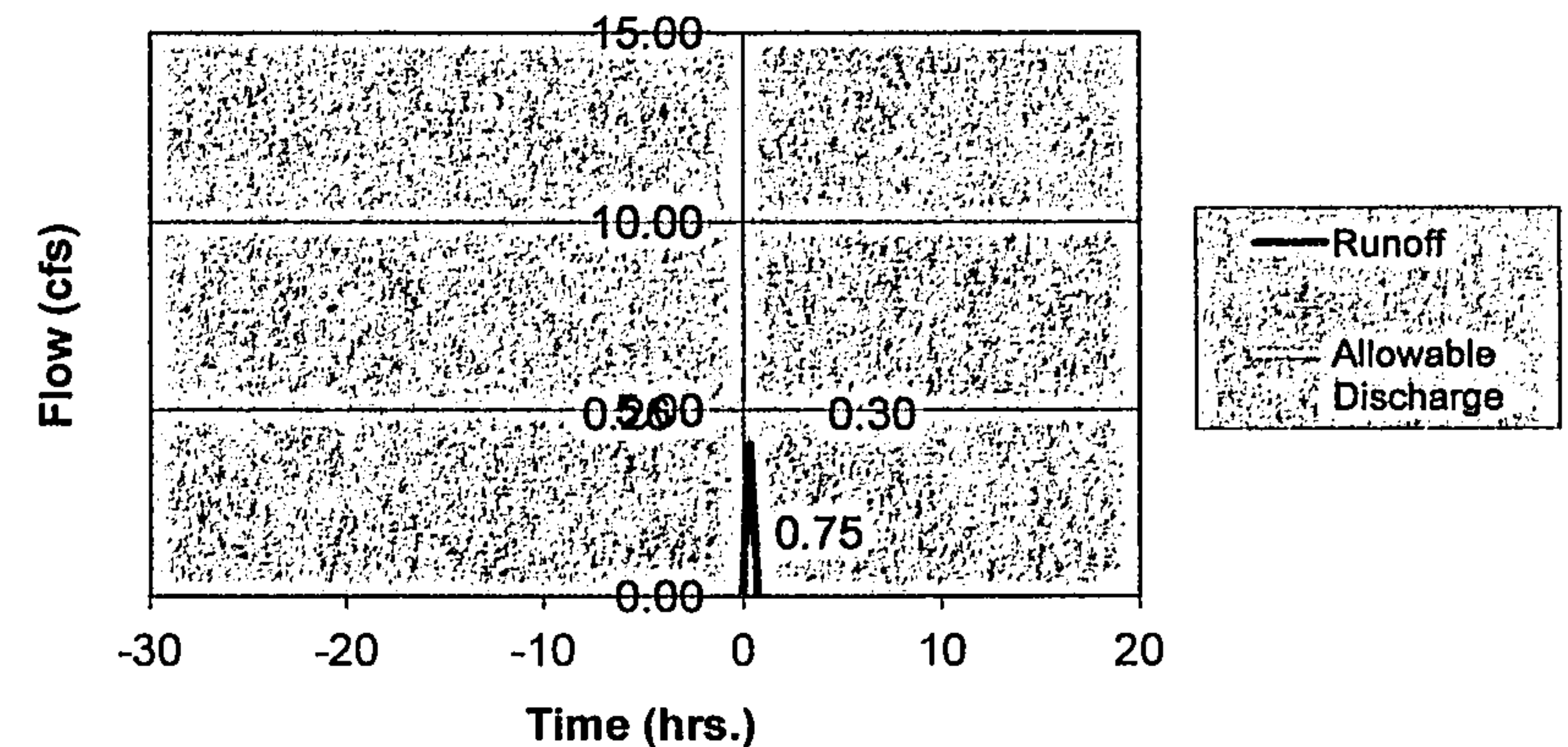
100-year 10-day Runoff Volume (acre-feet, ft ³)	0.16	6,787
100-year 4-day Runoff Volume (acre-feet, ft ³)	0.14	6,288
100-year 24-hr Runoff Volume (acre-feet, ft ³)	0.13	5,866

Pipe Diameter	18.00	in
Slope	1.50%	
Manning Coefficient	0.013	
Pipe Area	1.77	ft ²
Perimeter	4.71	ft
Hydraulic Radius	0.375	ft
Flow Capacity	12.9	cfs

SOLVE FOR FLOW IN A TRAPEZOIDAL CHANNEL WITH KNOWN DEPTH		
Depth	1.00	feet
Top Width	6.00	feet
Bottom Width	1.00	feet
Channel Slope	2.00%	
Manning Coefficient	0.013	
Calculated Flow Capacity	64.9	cfs

SOLVE FOR DEPTH IN A TRAPEZOIDAL CHANNEL WITH KNOWN FLOW		
Required Flow	25950	cfs
Depth Increment	1	feet
Initial Depth Assumption	0.66	feet
High Flow (cfs) at Depth (ft.)	28805.68	10.66
Low Flow (cfs) at Depth (ft.)	22207.42	9.66
Calculated Flow (cfs) at Depth (ft.)	25506.5	10.16

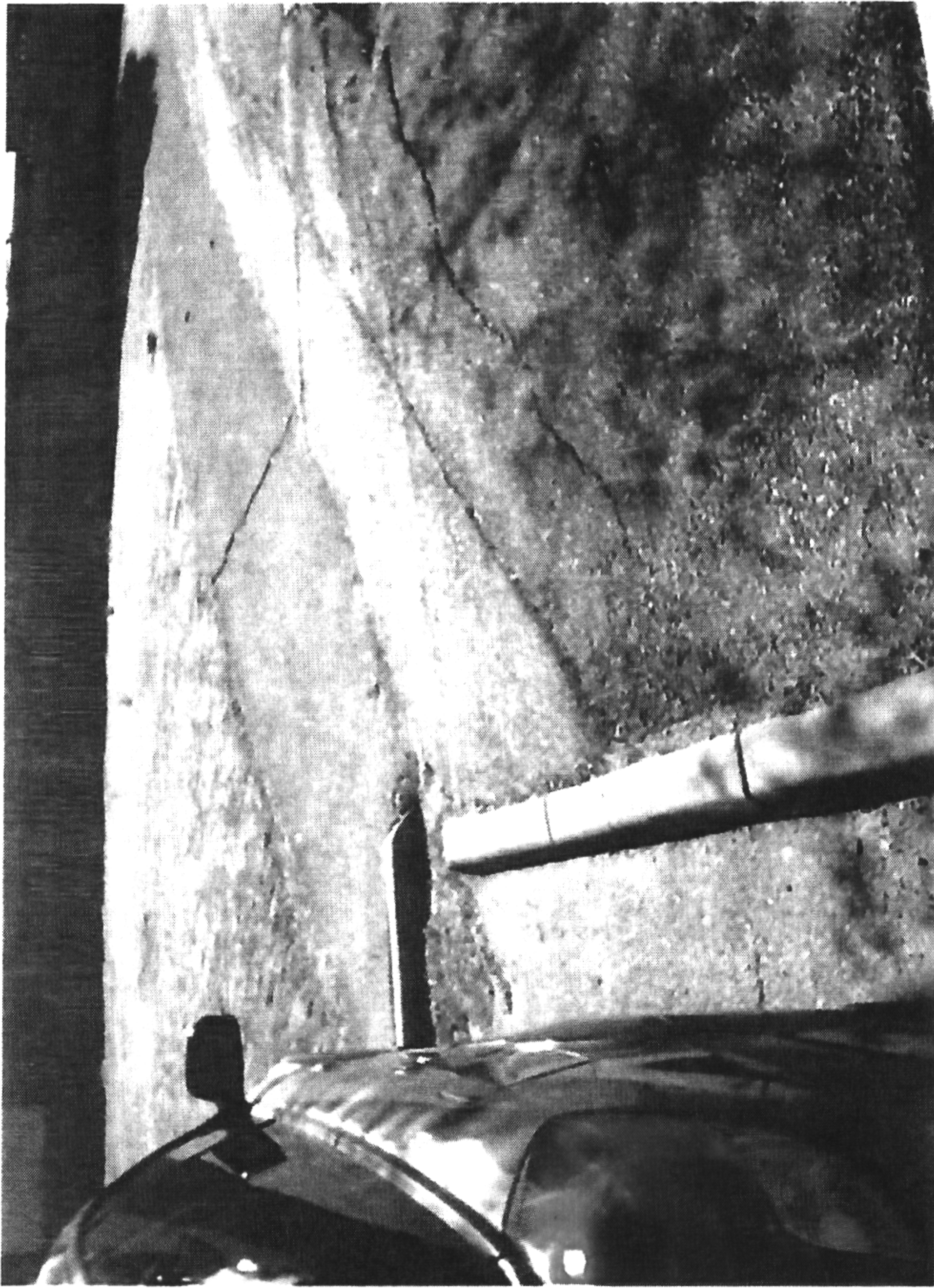
Hydrograph (time labels shown)

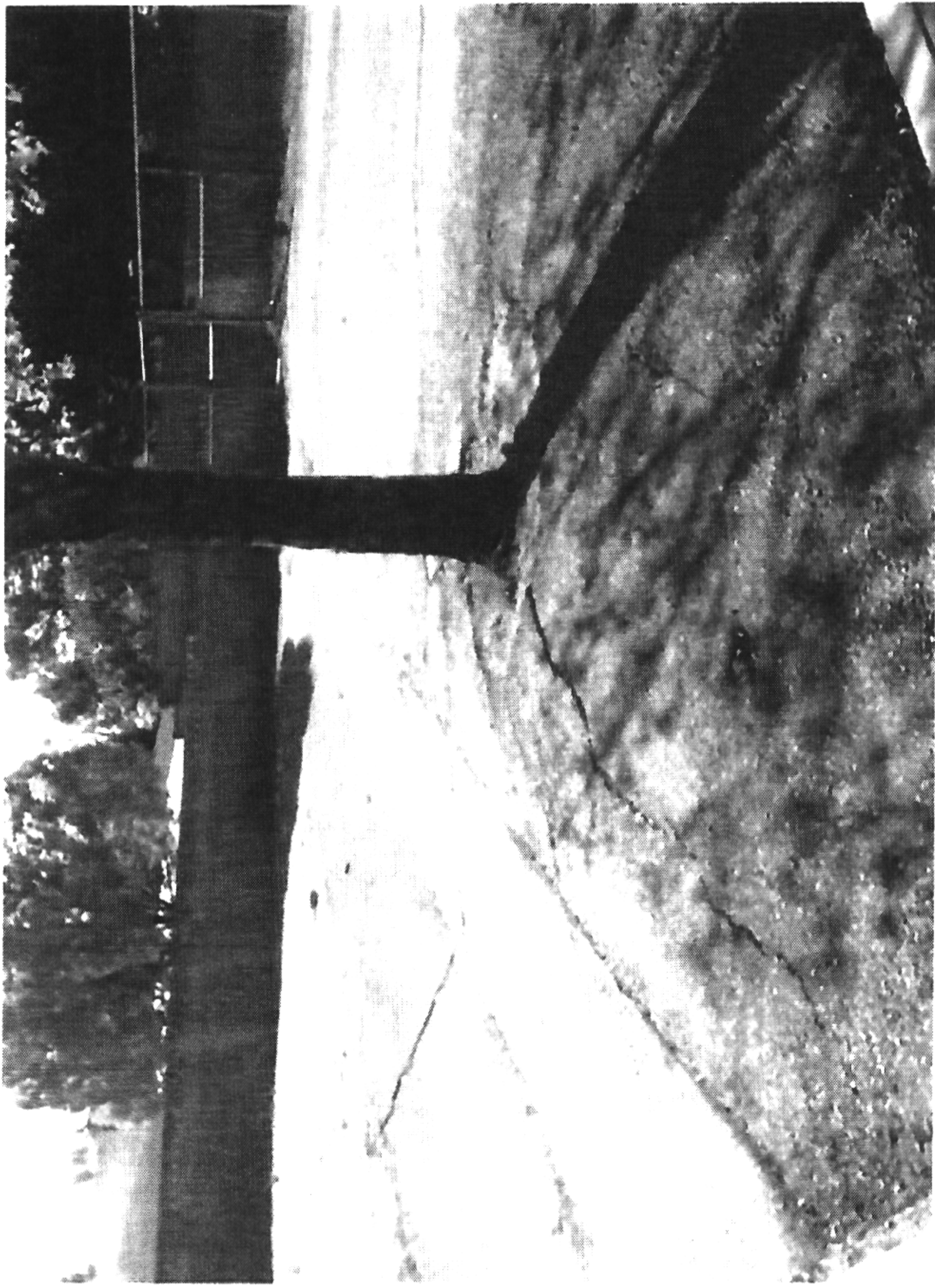












CITY OF ALBUQUERQUE



April 30, 2014

Eddy Losinski, P.E.
JEL & Associates, LLC
250 Bazan Loop
Corrales, New Mexico 87048

**RE: Montezuma Elementary Play Field
Grading and Drainage Plan
Engineers Stamp Date 4/18/14 (J16D009)**

Dear Mr. Losinski,

Based upon the information provided in your submittal received 4/21/14, the above referenced Grading and Drainage Plan (G&D) is acceptable for Building Permit and Paving Permit. Hydrology is requesting that proposed landscape areas be depressed to retain/infiltrate the rain that falls on them and if possible have existing flows, flow through the landscape areas for water harvesting and water quality.

This project requires a National Pollutant Discharge Elimination System (NPDES) permit for storm water discharge and a Topsoil Disturbance Permit since it is disturbing $\frac{3}{4}$ of an acre or more.

Before building permit approval, an Erosion and Sediment Control Plan (ESC) must be submitted and accepted. Attach a copy of the ESC plan and this approved G&D plan to each of the Building Permit sets prior to seeking approval by the Hydrology section.

If you have any questions, please contact me at 924-3695 or Rudy Rael at 924-3977.

Sincerely,

Rita Harmon, P.E.
Senior Engineer, Hydrology
Planning Department

RR/RH
C: File



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

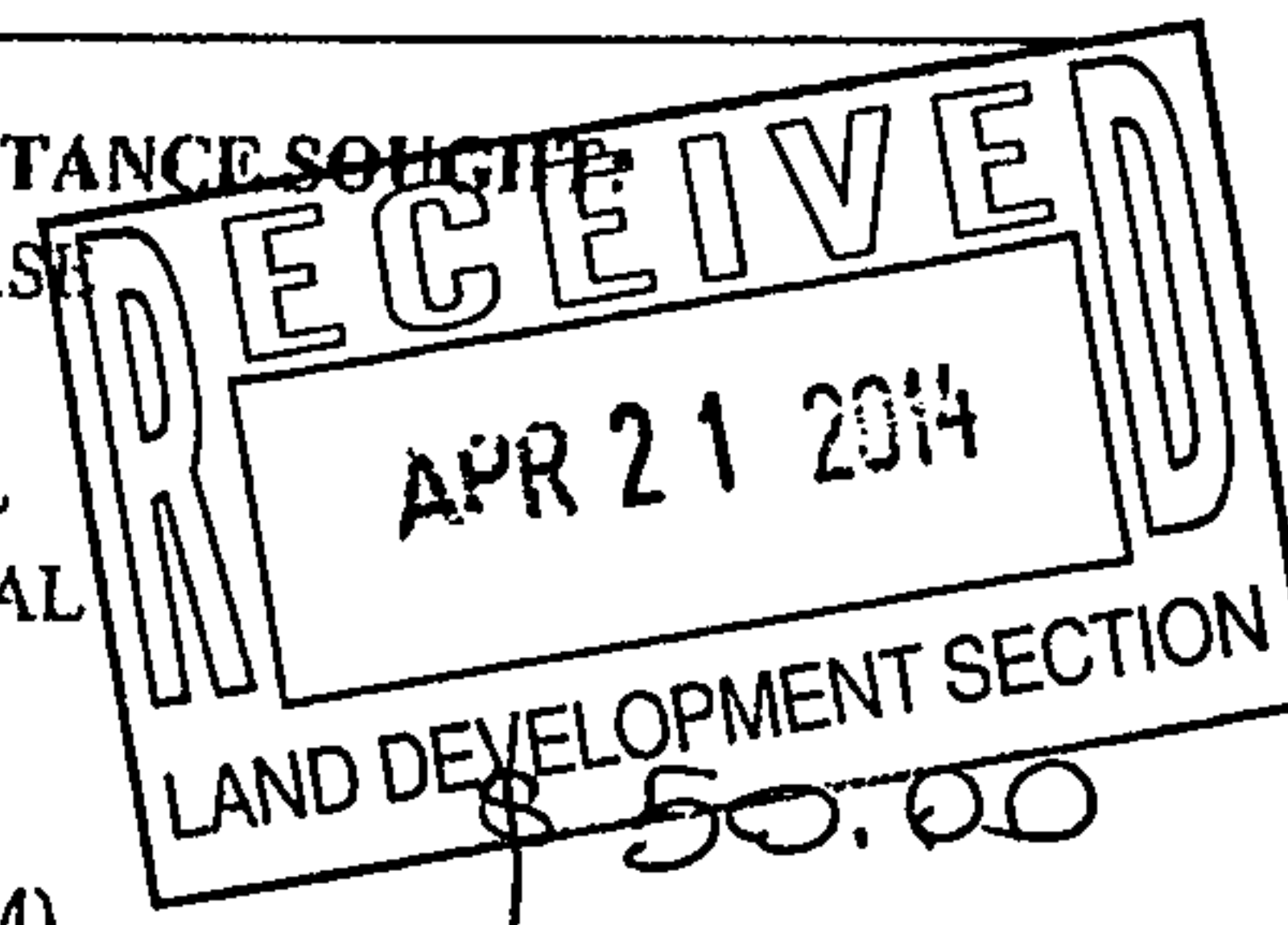
Project Title: Montezuma Elementary Play Field Building Permit #: _____ City Drainage #: 116D009
DRB#: _____ EPC#: _____ Work Order#: _____
Legal Description: _____
City Address: 3100 Indian School Road, NE
Engineering Firm: JEL & Associates, LLC Contact: Eddy Losinski
Address: 250 Bazen Loop, Corrales, NM, 87048
Phone#: (505) 823-1556 Fax#: (505) 823-2192 E-mail: jelassoc@comcast.net
Owner: Albuquerque Public Schools Contact: _____
Address: _____
Phone#: _____ Fax#: _____ E-mail: _____
Architect: _____ Contact: _____
Address: _____
Phone#: _____ Fax#: _____ E-mail: _____
Surveyor: _____ Contact: _____
Address: _____
Phone#: _____ Fax#: _____ E-mail: _____
Contractor: Westwind Landscape Const. Inc Contact: Tag Gray
Address: 2739 Vassar Pl. NE 87107
Phone#: (505) 881-8925 Fax#: (505) 883-7052 E-mail: _____

TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
☒ DRAINAGE PLAN 1st SUBMITTAL
☐ DRAINAGE PLAN RESUBMITTAL
☐ CONCEPTUAL G & D PLAN
☐ GRADING PLAN
☐ EROSION & SEDIMENT CONTROL PLAN (ESC)
☐ ENGINEER'S CERT (HYDROLOGY)
☐ CLOMR/LOMR
☐ TRAFFIC CIRCULATION LAYOUT (TCL)
☐ ENGINEER'S CERT (TCL)
☐ ENGINEER'S CERT (DRB SITE PLAN)
☐ ENGINEER'S CERT (ESC)
☐ SO-19
☐ OTHER (SPECIFY) _____

CHECK TYPE OF APPROVAL/ACCEPTANCE 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
☐ CERTIFICATE OF OCCUPANCY (PERM)
☐ CERTIFICATE OF OCCUPANCY (TCL TEMP)
☐ FOUNDATION PERMIT APPROVAL
☒ BUILDING PERMIT APPROVAL
☒ GRADING PERMIT APPROVAL
☐ PAVING PERMIT APPROVAL
☐ WORK ORDER APPROVAL
☐ GRADING CERTIFICATION
☐ SO-19 APPROVAL
☐ ESC PERMIT APPROVAL
☐ ESC CERT. ACCEPTANCE
☐ OTHER (SPECIFY) _____



WAS A PRE-DESIGN CONFERENCE ATTENDED: ☒ Yes ☐ No

DATE SUBMITTED: 4/21/14

By: Eduardo J. Garcia Copy Provided _____

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
4. **Erosion and Sediment Control Plan:** Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development By others

City of Albuquerque Planning Department
One Stop Shop – Development and Building Services

04/21/2014 Issued By: E08375 234636

Permit Number: 2014 060 019

Category Code 970

Application Number: 14REV-60019, Review: Drain Plan-Lomr-Traffic Impact

Address:

Location Description: MONTEZUMA ELEMENTARY PLAY FIELD

Project Number: null

Applicant

JEL & ASSOCIATES, LLC

250 BAZAN LOOP
CORRALES NM 87048
823-1556

Agent / Contact

JEL & ASSOCIATES, LLC

250 BAZAN LOOP
CORRALES NM 87048
823-1556

Application Fees

REV Actions	\$50.00
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TOTAL:	\$50.00
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City of Albuquerque Treasury
Date: 4/21/2014 Office: ANNEX
Stat ID: W30000008 Cashier: TRSCXG
Batch: 3547 Trans #: 4
Permit: 2014060019
Receipt Num 00193745
Payment Total: \$50.00
0909 REV Actions
Check Tendered : \$50.00

Olson, Greg

From: Olson, Greg
Sent: Tuesday, January 21, 2014 4:56 PM
To: 'Eddie Losinski'
Cc: Olson, Greg
Subject: J16-D009 Montezuma Elementary - Grading & Drainage Plan for Proposed SE Playing Field area

Eddie,

Just a quick note to summarize our "Pre-Design" discussion this afternoon concerning your proposed Grading and Drainage Plan for redevelopment of the SE corner of the Montezuma Elementary school site, from the previous Portable Classroom layout to an artificial turf play area.

1. If the area disturbed is 1.0 acre or more, an Erosion and Sediment Control (ESC) Plan, prepared and sealed by a NM PE will be required.
2. It appears in our records that when runoff in this area of the school site was analyzed by Jeff Mortensen & Assoc. (c1996), approx. 20-25% of it was covered with asphalt pavement. Subsequent redevelopment with the portable buildings was not recorded in our files. It will be acceptable for your analysis to compare existing condition (with portable) to the proposed with turf and sidewalks.
3. Downstream capacity and stability of the dirt swale along the east side of the school site should be confirmed in your submittal.
4. Field verify that the dirt swale along the east side of the school site discharges to the north, paved parking lot, and does not continue north to flow over the sidewalk to Indian School Road.
5. If item 4 reveals that the flow IS ACTUALLY FLOWING NORTH OVER THE SIDEWALK, corrective action will be required, to either divert flows to the parking lot, or construct a sidewalk culvert or other means of running the flow under the sidewalk at the north end of the swale.
6. If you and APS feel that the existing topo survey is representative of the existing conditions (save minor disturbance from Portable Building removal), and is adequate for this design, a new survey will not be required. Just cite the source on your submittal.
7. Following construction, an As-Built Survey and Engineer's Certification will be required to confirm compliance with the approved Grading Plan.

If you have any questions or comments concerning this summary, please email or call me.

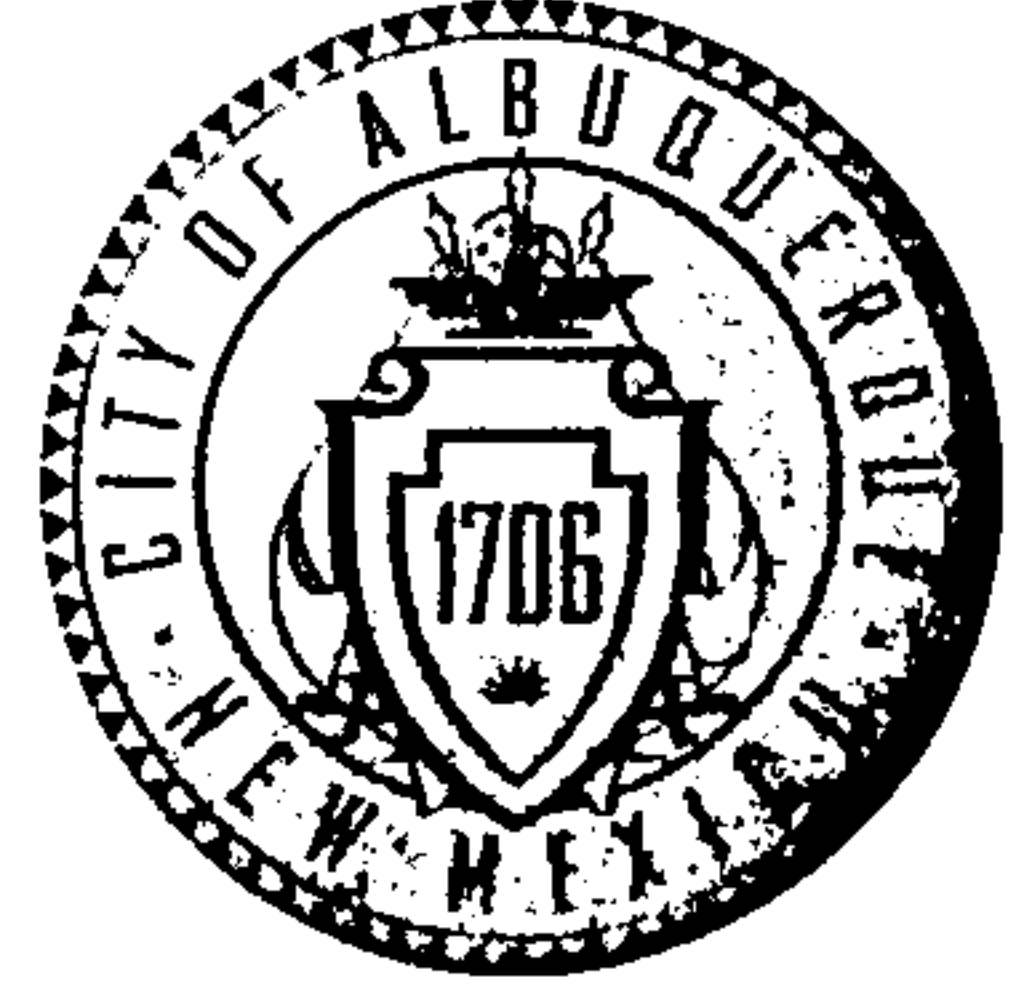
For convenience, I am attaching a copy of the current Drainage and Traffic Information Sheet to be submitted with your plan.

"J16-D009" is our drainage file number for the Montezuma School site.

Thanks,

Greg Olson, PE
Senior Engineer
Planning - Hydrology
505-924-3994

CITY OF ALBUQUERQUE



April 2, 2009

Edward J. Losinki, P.E.
JEL & Associates, LLC
250 Bazan Loop
Corrales, NM 87048

**Re: Montezuma Elementary School Addition, 1616 Richmond Dr. SE,
(J-16/D009)**

Approval of Permanent Certificate of Occupancy,

Engineer's Stamp Dated: 09-24-07

Engineer's Certification Date: 3-13-09

Dear Mr. Losinki,

Based upon the information provided by our visual inspection on 4/02/09, the above referenced certification is approved for release of Permanent Certificate of Occupancy by Hydrology.

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

Sincerely,

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

C: CO Clerk—Katrina Sigala
file

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

CU when
approve: Hector 252-1923

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 12/2005)

PROJECT TITLE: Montezuma Elementary TDP/BIP Classzone ZONE MAP: J-16/D009
DRB#: _____ EPC#: _____ WORK ORDER#: _____

LEGAL DESCRIPTION: Block 5 and 6 Haines Tract
CITY ADDRESS: 1616 Richmond Dr NE 87106

ENGINEERING FIRM: JEL Associates, LLC CONTACT: Eddy Losinski
ADDRESS: 250 Bazaar Loop PHONE: 823-1556
CITY, STATE: Corrales, NM ZIP CODE: 87048

OWNER: Albuquerque Public Schools CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

ARCHITECT: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

SURVEYOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

CONTRACTOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

TYPE OF SUBMITTAL:

- ☒ DRAINAGE REPORT
- ☐ DRAINAGE PLAN 1st SUBMITTAL
- ☐ DRAINAGE PLAN RESUBMITTAL
- ☐ CONCEPTUAL G & D PLAN
- ☐ GRADING PLAN
- ☐ EROSION CONTROL PLAN
- ☐ ENGINEER'S CERT (HYDROLOGY)
- ☐ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT
- ☐ ENGINEER'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 (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: _____

BY: HYDROLOGY
SECTION

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 13, 2009

Edward J. Losinki, P.E.
JEL & Associates, LLC
250 Bazan Loop
Corrales, NM 87048

**Re: Montezuma Elementary School, 1616 Richmond Dr. NE,
Approval of 90-Day Certificate of Occupancy (C.O.)
Engineer's Stamp dated 9/24/07 (J-16/D009)
Certification dated 3-13-09**

Dear Mr. Losinki,

PO Box 1293

Based upon the information provided in your submittal received 3-13-09, the above referenced certification is approved for release of a 90 Day Temporary Certificate of Occupancy by Hydrology.

Albuquerque

This allows time to complete the retaining wall along the southwest corner of the building. When this work is complete, as built elevations will be required for the top of all walls and surrounding areas additional spot elevations will also be needed throughout the site.

NM 87103

Prior to Permanent Certificate of Occupancy, an Engineer's Certification per the DPM is required.

www.cabq.gov

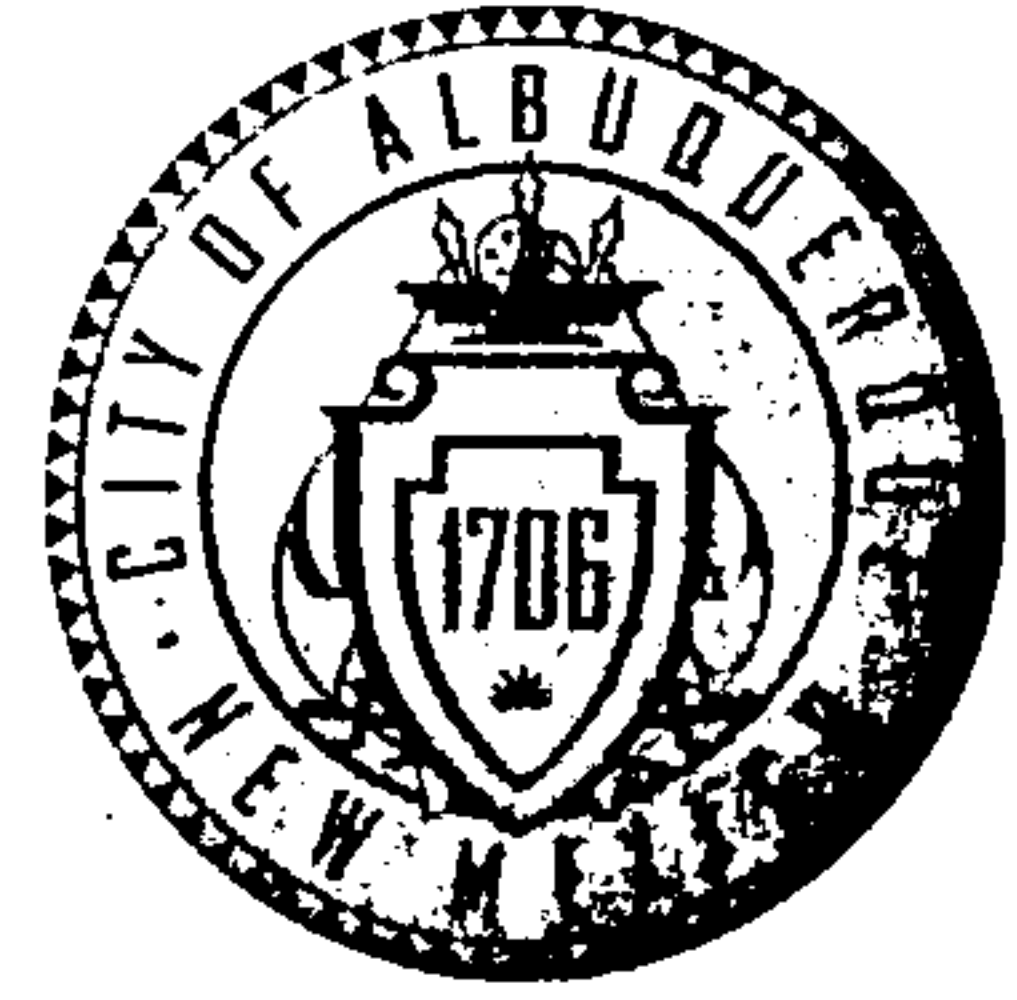
If you have any questions, you can contact me at 924-3982.

Sincerely,

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

C: CO Clerk-Katrina Sigala
File

CITY OF ALBUQUERQUE



March 12, 2009

Edward J. Losinski, P.E.
JEL & Associates, LLC
250 Bazan Loop
Corrales, NM 87048

Re: Montezuma Elementary School Addition TDP/BIP Grading and Drainage Plan

Engineer's Stamp dated 9-24-07 (J16/D009)

Dear Mr. Losinski,

Based upon the information provided in your submittal received 2-26-08 and discussion dated 3-12-09, the above referenced plan is approved for Building Permit.

PO Box 1293

This is the plan to certify for release of Certificate of Occupancy.

Albuquerque

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

Sincerely,

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

NM 87103

www.cabq.gov

C: file

PLANNING DEPARTMENT – Development & Building Services

March 27, 2008

Edward J. Losinski, P.E.
JEL & Associates, LLC
250 Bazan Loop
P.O. Box 3180
Corrales, New Mexico 87048

RE: **Montezuma Elementary School Addition (J16 – D 009)**
Drainage Plan for Foundation Permit (PE Stamped 09-24-07)

Dear Mr. Losinski:

Based upon the information provided in the submittal dated 2/26/08, plus supplemental maps and report submitted 3/27/08, the above referenced plan cannot be approved for Grading and Paving Permit until the following comments are addressed:

- Flow calculations provided for the site indicate that the existing site is 100% impervious (Treatment “D”), however the site survey shows significant portions of the site as “Dirt. Rough scaling on the plan submitted indicates roughly 2/3 Acre of “Dirt” being converted to Treatment “D.” Review and revise report accordingly, and correct computations of discharge rates to the existing and proposed outfall points. Note that there is an existing storm drain system on Haines, which is going to intercept the flows from your proposed Basin B.
- Sheet C101 needs to be revised to include a Legend to clarify conditions and improvements not otherwise described in the Keyed Notes (e.g.-existing pavement limits, concrete sidewalks, etc.). There is a large area NW of the proposed building which appears to be proposed improvements, but has not been identified or included in any of the information submitted.
- Provide sheet C200, which is referenced on C101 (or include the referenced details on C101 so that it stands alone).

If you have any questions or would like to schedule a meeting to discuss this, you may contact me at 924-3981.

Sincerely,



Gregory R. Olson, P.E.
Hydrology Section

XC: Bradley Bingham, COA-PLN/Hydrology
Hydrology file J16 - D 009

From: "Olson, Greg R." <golson@abcwua.org>
To: <jelassoc@comcast.net>
CC: "Bingham, Brad L." <BBingham@cabq.gov>, "Cherne, Curtis " <CCherne@cabq.gov>, "Olson, Greg R." <golson@abcwua.org>
Subject: RE: Montezuma Elementary School Add'n (Hydrology File J16-D 009) - with Attachment
Date: Thursday, March 27, 2008 5:28:47 PM

Sorry - this one has the attached file
Thanks,

Greg Olson
505-924-3981

From: Olson, Greg R.
Sent: Thursday, March 27, 2008 5:20 PM
To: jelassoc@comcast.net
Cc: Bingham, Brad L.; Cherne, Curtis ; Olson, Greg R.
Subject: RE: Montezuma Elementary School Add'n (Hydrology File J16-D 009)

Eddy,

I looked through the report and basin maps received this morning and have a few concerns as listed on the attached letter.
Please review and call me if there are any questions.

Please be sure that the rsubmittal has the same date on all your seals, so it's clear what plan and report is approved.

Thanks,
Greg Olson
505-924-3981

From: jelassoc@comcast.net [mailto:jelassoc@comcast.net]
Sent: Wednesday, March 26, 2008 9:31 PM
To: Olson, Greg R.
Cc: Olson, Greg R.; Bingham, Brad L.
Subject: Re: Montezuma Elementary School Add'n

Greg:

Thanks for the note and yes there was additional information in the submittal as requested. Flow calcs and the like. The architect submitted the grading plan out of the drawings as a G&D Report without asking me if that is what you needed. The other data

should be with the plan set by tomorrow morning according to the architect and APS. It was good seeing you yesterday and hope all is well with you and yours.

Eddy

----- Original message -----

From: "Olson, Greg R." <golson@abcwua.org>

Eddie,

Attached are draft comments on the earlier version of drainage submittal. I got the impression from talking to Curtis yesterday that you were submitting additional information.

Is that already in the system, or coming soon???

If so, I can hold off on sending these comments until I get to look at the additional information.

Thanks,

Greg Olson

505-924-3981

<<J16-D009_Montezuma Elementary -DRAFT-NO.pdf>>

<<J16-D009_Montezuma Elementary School Addn.doc>>

(Attachments successfully scanned for viruses.)

Attachment 1: (application/Adobe)

DRAINAGE AND TRANSPORTATION INFORMATION SHEET
(REV 12/2005)

PROJECT TITLE: Montezuma Elementary TDP/BIP Classification ZONE MAP: J-16
DRB#: _____ EPC#: _____ WORK ORDER#: _____

LEGAL DESCRIPTION: Block 5 and 6 Haines Tract
CITY ADDRESS: 1616 Richmond Dr NE 87106

ENGINEERING FIRM: JEL Associates, LLC CONTACT: Eddy Losinski
ADDRESS: 250 Bazar Loop PHONE: 823-1556
CITY, STATE: Corrales, NM ZIP CODE: 87048

OWNER: Albuquerque Public Schools CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

ARCHITECT: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

SURVEYOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

CONTRACTOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

TYPE OF SUBMITTAL:

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

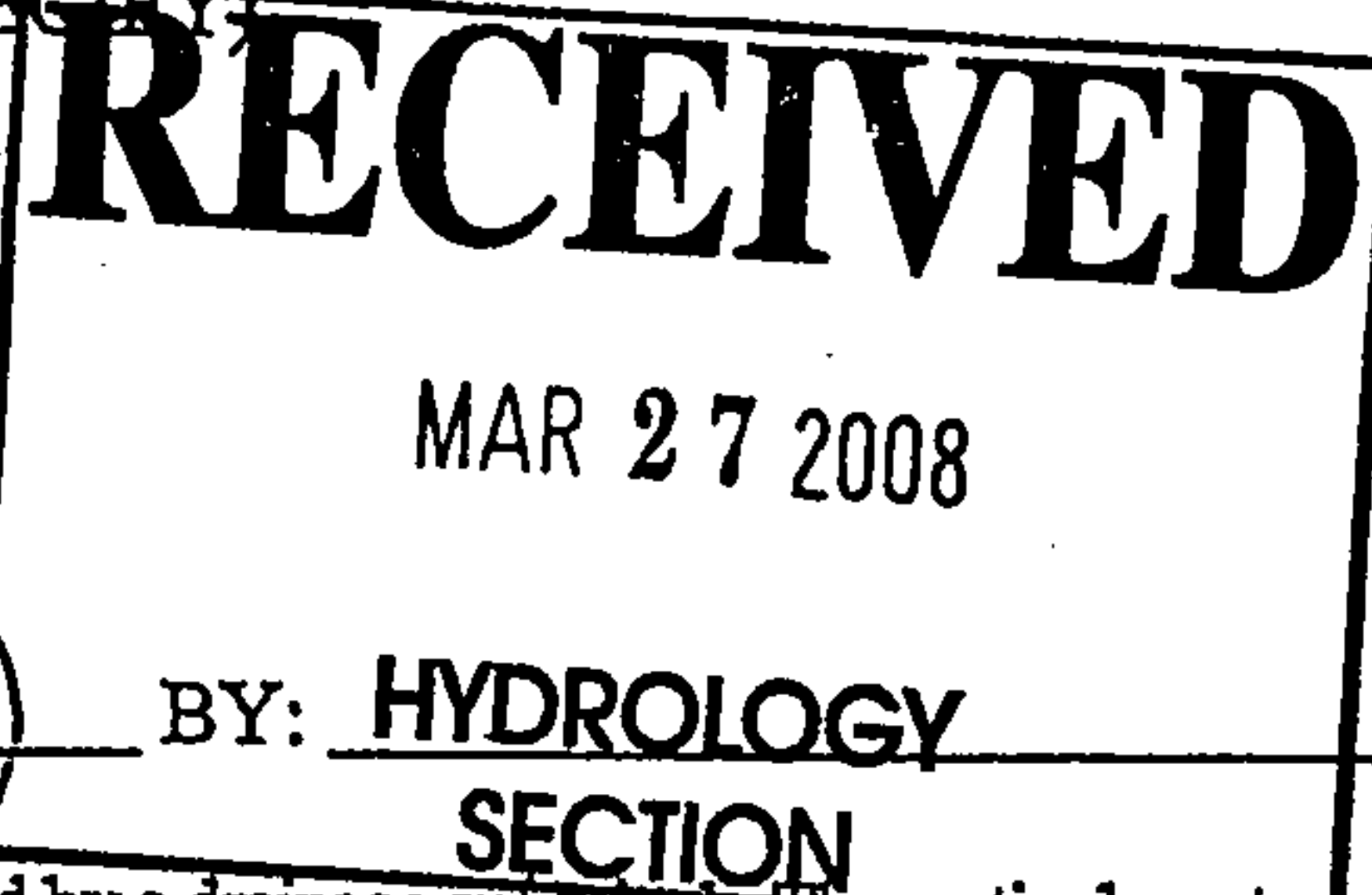
CHECK TYPE OF APPROVAL SOUGHT:

- ☐ 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 (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

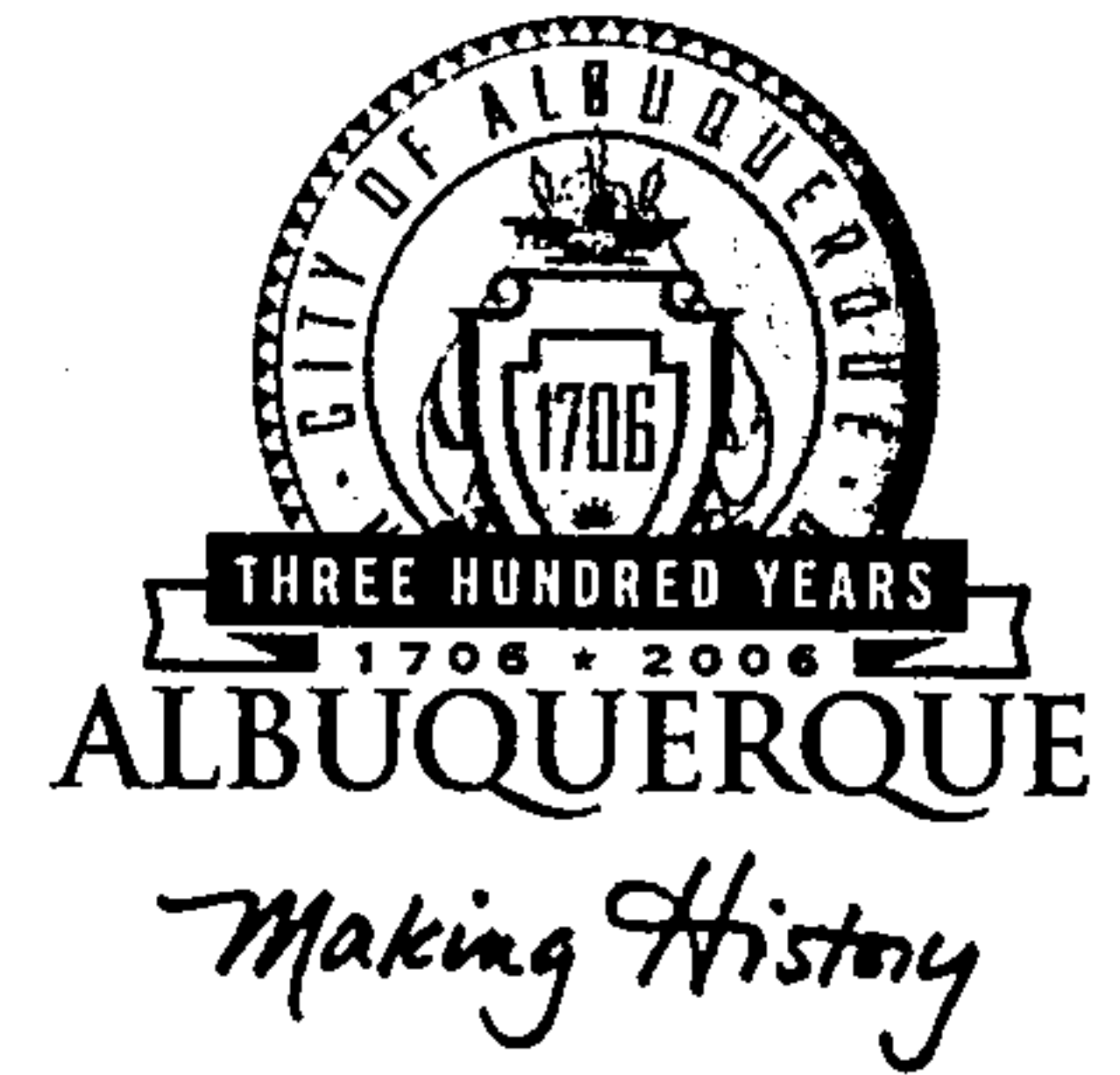
DATE SUBMITTED: _____



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 14, 2006

Mr. Bruce Stidworthy, PE
BOHANNAN-HUSTON, INC.
7500 Jefferson St. NE, Courtyard 1
Albuquerque, NM 87109

Re: MONTEZUMA ELEMENTARY SCHOOL ADDITION, (J-16/D9)
1616 Richmond Drive SE
Permanent Hydrology Certificate of Occupancy, Submitted 03/14/2006,
Certification dated 03/16/2006

Dear Bruce:

Based upon the information provided in your submittal received 03/14/2006, the above referenced Certification cannot be approved until the following is addressed:

1. The approved Grading and Drainage (G/D) Plan has an Engineer Stamp date of 07/08/2004 not 03/13/2006 as indicated in your submittal. Attached, is a copy of the G/D approval letter, and a copy of the bottom right hand corner of the approved G/D Plan.

If you have any questions, please do not hesitate to contact me at 924-3982.

Sincerely,

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

Attachments

C: file

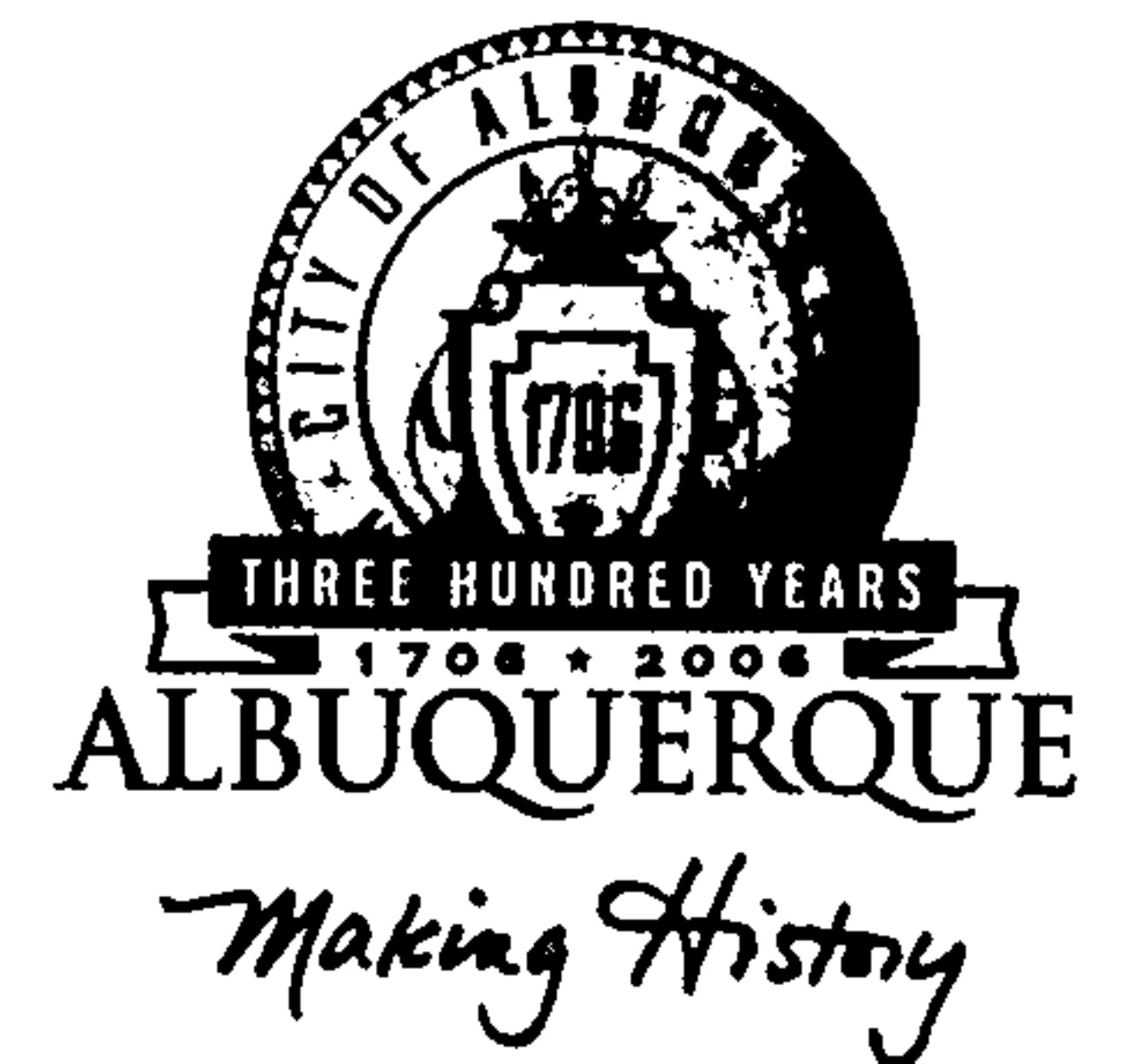
P.O. Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

CITY OF ALBUQUERQUE



July 26, 2004

Bruce Stidworthy, P.E.
Bohannon Huston, Inc.
7500 Jefferson NE – Courtyard 1
Albuquerque, NM 87109

**Re: Montezuma Elementary Classroom Addition, 1616 Richmond Dr NE,
Grading and Drainage Plan
Engineer's Stamp dated 7-08-04 (J16-D9)**

Dear Mr. Stidworthy,

Based upon the information provided in your submittal received 7-16-04, 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. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

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).

New Mexico 87103

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

www.cabq.gov

Sincerely,

Kristal D. Metro
Engineering Associate, Planning Dept.
Development and Building Services

C: Charles Caruso, DMD Storm Drainage Design
File

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/11/2002)

J-16/D9

PROJECT TITLE: Montezuma E.S. Add'n ZONE MAP/DRG. FILE # J18/D00
DRB #: _____ EPC#: _____ WORK ORDER#: _____

LEGAL DESCRIPTION: Blocks 5 and 6, Haines Tract, C2-114; And the Public Right-of-way within Bryn Mawr Ave. NE vacated by the Board of County Commissioners of Bernalillo County and the west 30' of Lafayette Drive NE vacated by Commission Ordinance No. 1361, V-173.

CITY ADDRESS: 1616 Richmond Drive, NE

ENGINEERING FIRM: Bohannon Huston, Inc.
ADDRESS: 7500 Jefferson NE - Courtyard I
CITY, STATE: Albuquerque, NM

CONTACT: Bruce Stidworthy
PHONE: (505) 823-1000
ZIP CODE: 87109

OWNER: _____
ADDRESS: _____
CITY, STATE: _____

CONTACT: _____
PHONE: _____
ZIP CODE: _____

ARCHITECT: _____
ADDRESS: _____
CITY, STATE: _____

CONTACT: _____
PHONE: _____
ZIP CODE: _____

SURVEYOR: _____
ADDRESS: _____
CITY, STATE: _____

CONTACT: _____
PHONE: _____
ZIP CODE: _____

CONTRACTOR: _____
ADDRESS: _____
CITY, STATE: _____

CONTACT: _____
PHONE: _____
ZIP CODE: _____

CHECK TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
- ☐ DRAINAGE PLAN
- ☐ CONCEPTUAL GRADING & DRNG. PLAN (amendment)
- ☐ GRADING PLAN
- ☐ EROSION CONTROL PLAN
- ☒ ENGINEER'S CERTIFICATION (HYDROLOGY)
- ☐ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT (TCL)
- ☐ ENGINEERS CERTIFICATION (TCL)
- ☐ ENGINEERS CERTIFICATION (DRB APPR. SITE PLAN)
- ☐ OTHER - REVISED GRADING PLAN

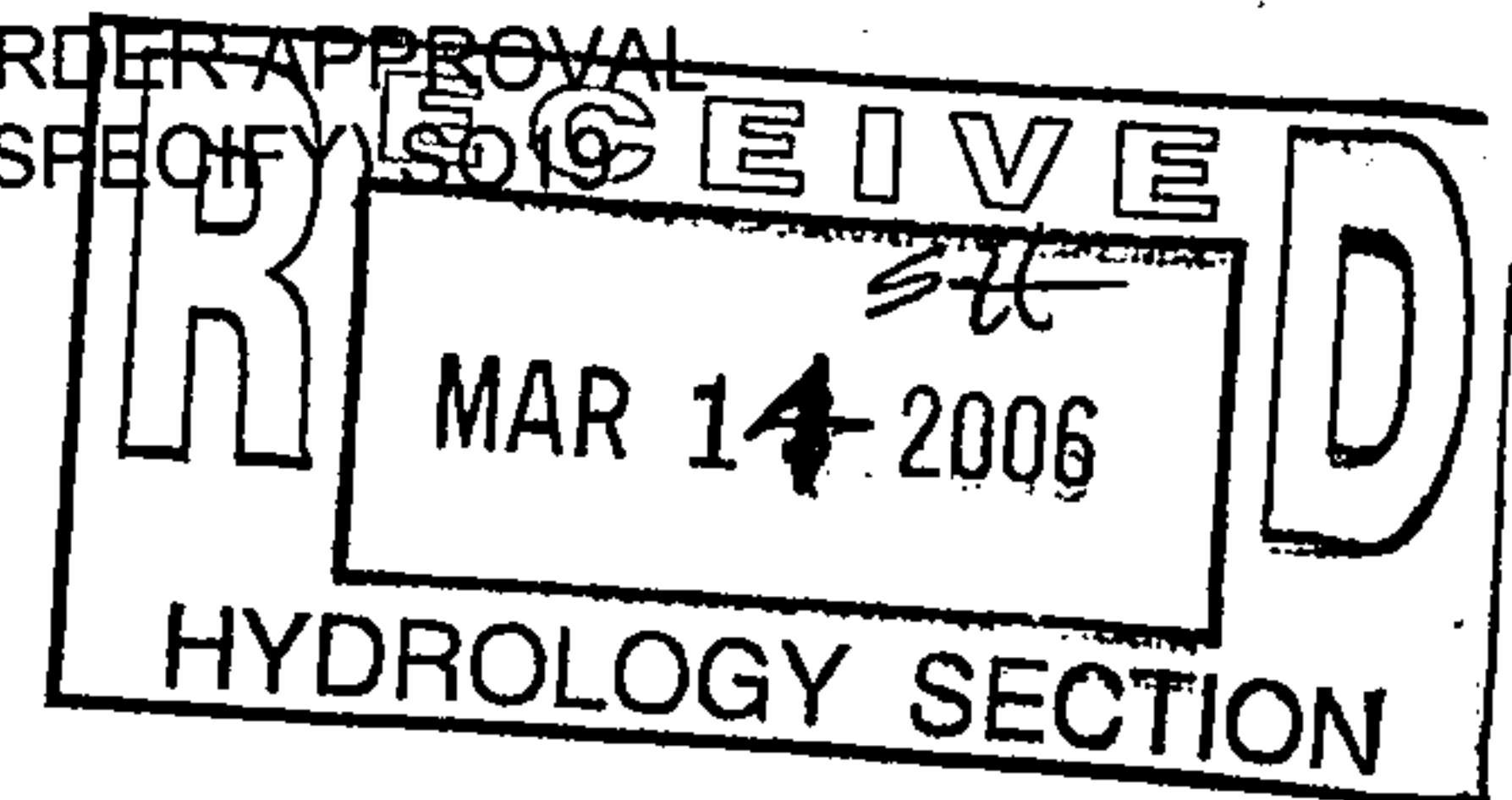
CHECK TYPE OF APPROVAL SOUGHT:

- ☐ 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: 3/13/06 BY: Bruce Stidworthy/BHI



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 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 subdivisions containing more than ten (10) lots or constituting five (5) acres or more.

Courtyard I
7500 Jefferson St. NE
Albuquerque, NM
87109-4335

www.bhinc.com

voice: 505.823.1000

facsimile: 505.798.7988

toll free: 800.877.5332

CLIENT/COURIER TRANSMITTAL

To: Phil Lovato
City of Albuquerque
Development and Building Services
600 2nd Street NW, Room 200

Requested by: Bruce Stidworthy

Date: March 13, 2006

Time Due: ☐ This A.M.
☐ This P.M.
☐ Rush _____
☒ By Tomorrow

Phone: 924-3990

Job No.: 040303.004

Job Name: Montezuma Elementary School

DELIVERY VIA

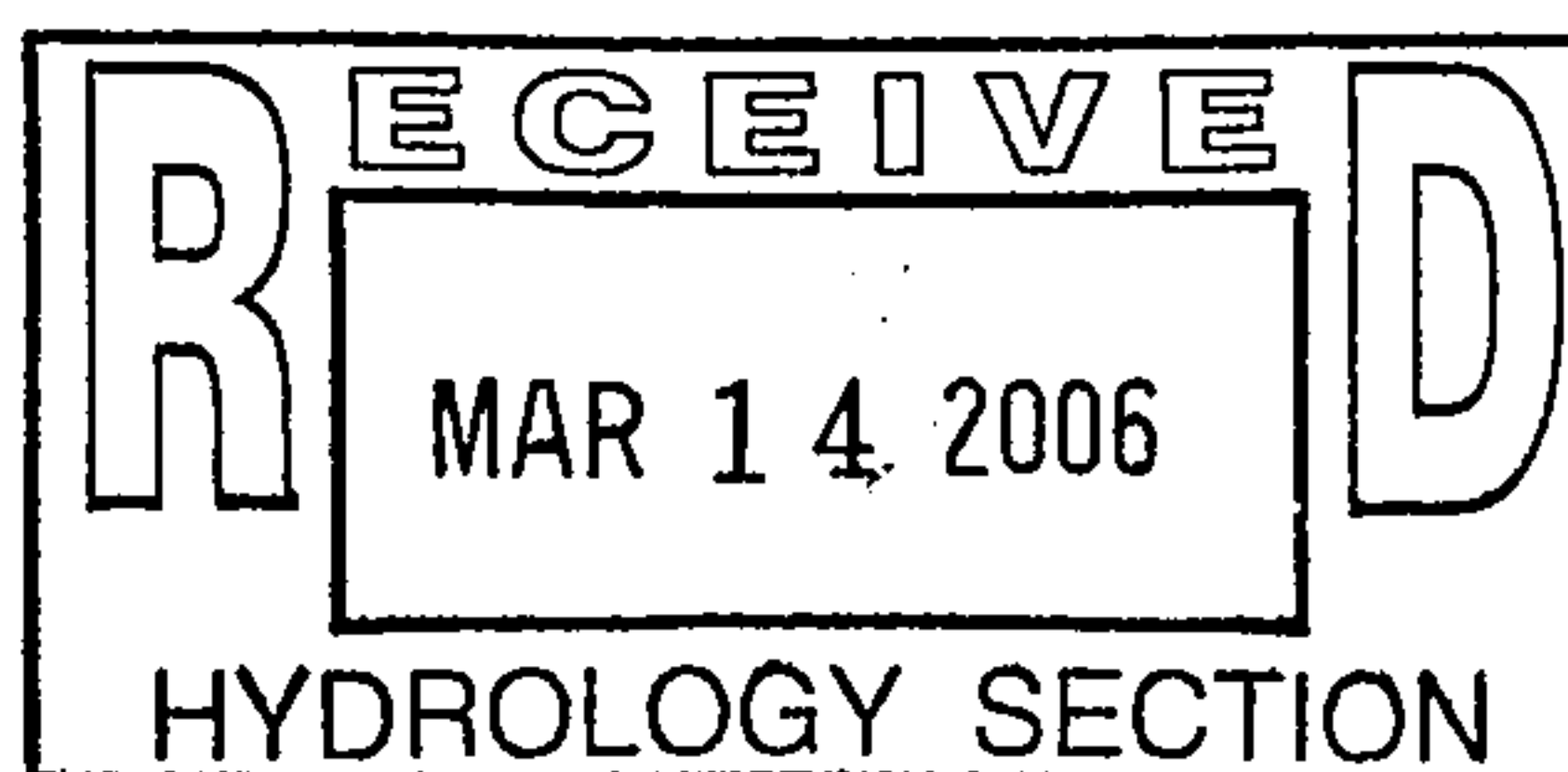
☒ Courier ☐ Federal Express
☐ Mail ☐ UPS
☐ Other

PICK UP

Item: _____

<u>ITEM NO.</u>	<u>QUANTITY</u>	<u>DESCRIPTION</u>
1	1	Grading and Drainage Plan / Drainage Certification
2	1	Drainage Info Sheet

COMMENTS / INSTRUCTIONS



REC'D BY: Sandy Hardley DATE: 03/14/06 TIME: 10:23

ENGINEERING ▲

SPATIAL DATA ▲

ADVANCED TECHNOLOGIES ▲

CITY OF ALBUQUERQUE

PLANNING DEPARTMENT – Development & Building Services



March 27, 2008

Edward J. Losinski, P.E.
JEL & Associates, LLC
250 Bazan Loop
P.O. Box 3180
Corrales, New Mexico 87048

RE: **Montezuma Elementary School Addition (J16 – D 009)**
Drainage Plan for Foundation Permit (PE Stamped 09-24-07)

Dear Mr. Losinski:

Based upon the information provided in the submittal dated 2/26/08, plus supplemental maps and report submitted 3/27/08, the above referenced plan cannot be approved for Grading and Paving Permit until the following comments are addressed:

- PO Box 1293
Albuquerque
NM 87103
www.cabq.gov
- Flow calculations provided for the site indicate that the existing site is 100% impervious (Treatment "D"), however the site survey shows significant portions of the site as "Dirt. Rough scaling on the plan submitted indicates roughly 2/3 Acre of "Dirt" being converted to Treatment "D." Review and revise report accordingly, and correct computations of discharge rates to the existing and proposed outfall points. Note that there is an existing storm drain system on Haines, which is going to intercept the flows from your proposed Basin B.
 - Sheet C101 needs to be revised to include a Legend to clarify conditions and improvements not otherwise described in the Keyed Notes (e.g.-existing pavement limits, concrete sidewalks, etc.). There is a large area NW of the proposed building which appears to be proposed improvements, but has not been identified or included in any of the information submitted.
 - Provide sheet C200, which is referenced on C101 (or include the referenced details on C101 so that it stands alone).

If you have any questions or would like to schedule a meeting to discuss this, you may contact me at 924-3981.

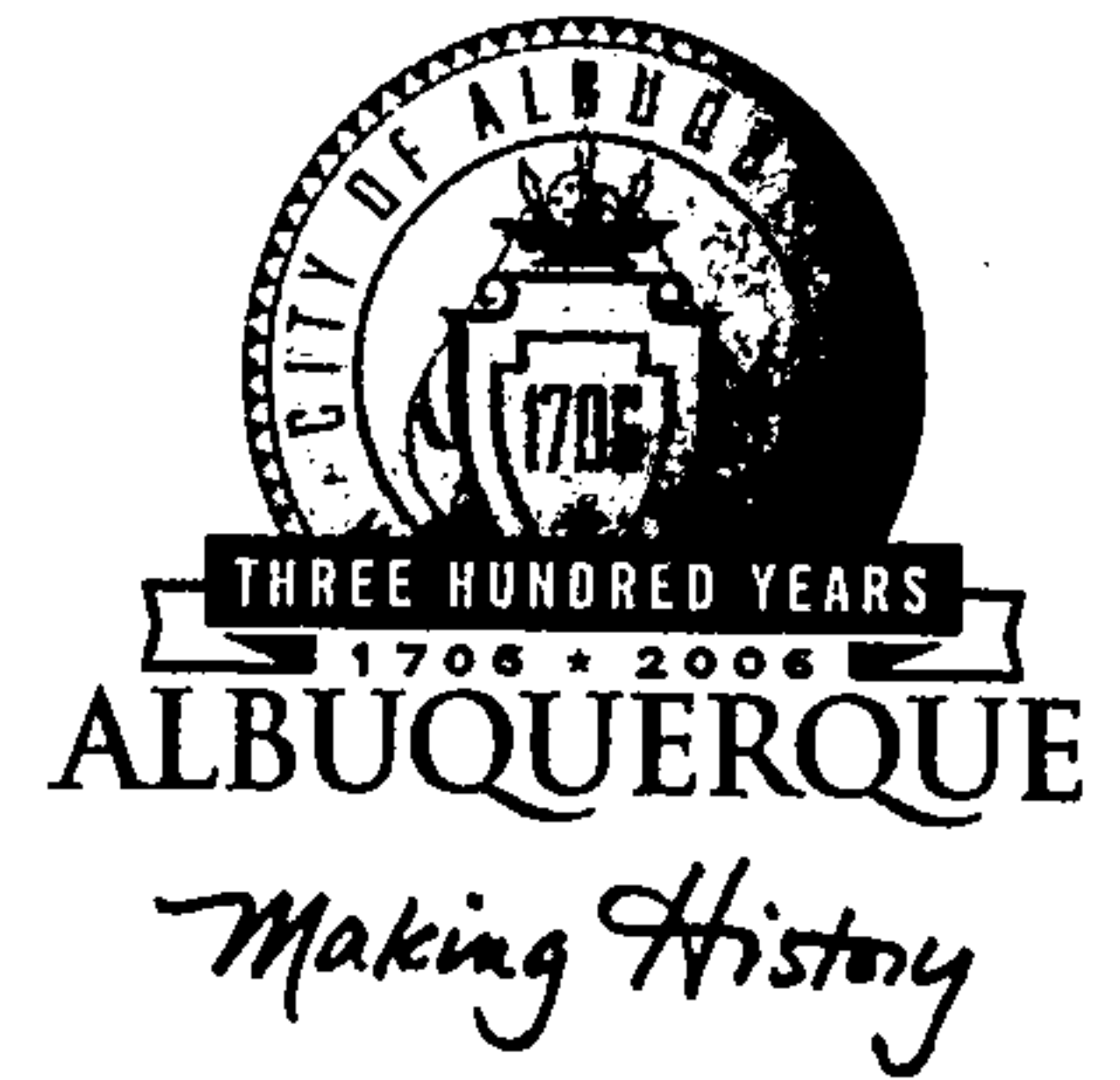
Sincerely,

 3/27/08

Gregory R. Olson, P.E.
Hydrology Section

XC: Bradley Bingham, COA-PLN/Hydrology
Hydrology file J16 - D 009

CITY OF ALBUQUERQUE



July 26, 2004

Bruce Stidworthy, P.E.
Bohannon Huston, Inc.
7500 Jefferson NE – Courtyard 1
Albuquerque, NM 87109

**Re: Montezuma Elementary Classroom Addition, 1616 Richmond Dr NE,
Grading and Drainage Plan
Engineer's Stamp dated 7-08-04 (J16-D9)**

Dear Mr. Stidworthy,

Based upon the information provided in your submittal received 7-16-04, 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. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

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).

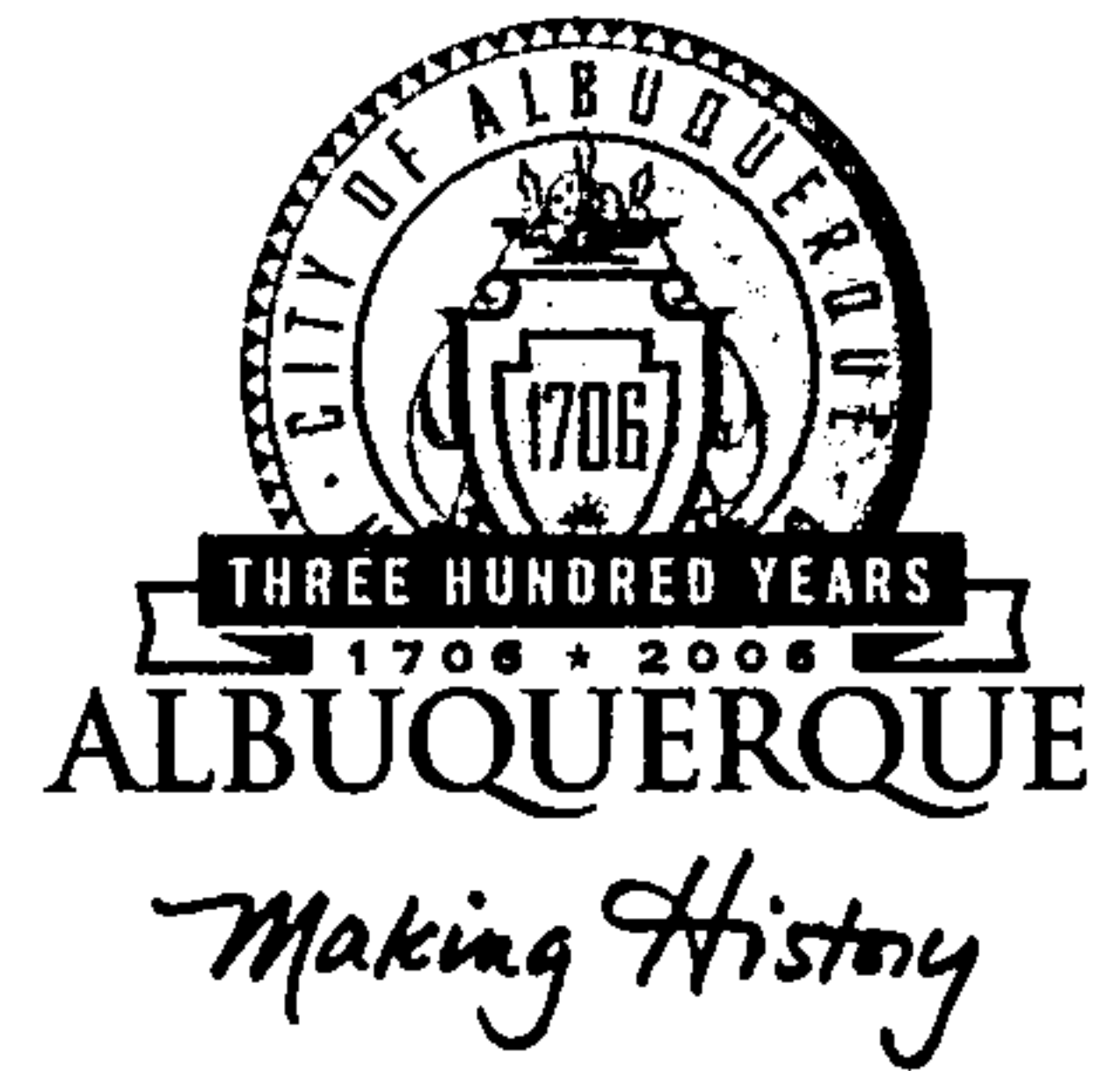
If you have any questions, you can contact me at 924-3981.

Sincerely,

Kristal D. Metro
Engineering Associate, Planning Dept.
Development and Building Services

C: Charles Caruso, DMD Storm Drainage Design
File

CITY OF ALBUQUERQUE



March 22, 2006

Mr. Bruce Stidworthy, PE
BOHANNAN-HUSTON, INC.
7500 Jefferson St. NE
Albuquerque, NM 87109

Re: MONTEZUMA ELEMENTARY SCHOOL
1616 Richmond Drive NE
Approval of Permanent Certificate of Occupancy (C.O.)
Engineer's Stamp dated 07/08/2004 (J-18/D9)
Certification dated 03/13/2006

Dear Bruce,

P.O. Box 1293

Based upon the information provided in your submittal received 03/22/2006, 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.

New Mexico 87103

Sincerely,

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

www.cabq.gov

C: CO Clerk
File

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/11/2002)

04/13/06
GTP

PROJECT TITLE: Montezuma E.S. ZONE MAP/DRG. FILE # J16/D09
DRB #: _____ EPC#: _____ WORK ORDER#: _____

LEGAL DESCRIPTION: Blocks 5 and 6, Haines Tract, C2-114; And the Public Right-of-way within Bryn Mawr Ave. NE vacated by the Board of County Commissioners of Bernalillo County and the west 30' of Lafayette Drive NE vacated by Commission Ordinance No. 1361, V-173.

CITY ADDRESS: 1616 Richmond Drive, NE

ENGINEERING FIRM: Bohannon Huston, Inc.
ADDRESS: 7500 Jefferson NE - Courtyard I
CITY, STATE: Albuquerque, NM

CONTACT: Bruce Stidworthy
PHONE: (505) 823-1000
ZIP CODE: 87109

OWNER: _____
ADDRESS: _____
CITY, STATE: _____

CONTACT: _____
PHONE: _____
ZIP CODE: _____

ARCHITECT: _____
ADDRESS: _____
CITY, STATE: _____

CONTACT: _____
PHONE: _____
ZIP CODE: _____

SURVEYOR: _____
ADDRESS: _____
CITY, STATE: _____

CONTACT: _____
PHONE: _____
ZIP CODE: _____

CONTRACTOR: _____
ADDRESS: _____
CITY, STATE: _____

CONTACT: _____
PHONE: _____
ZIP CODE: _____

CHECK TYPE OF SUBMITTAL:

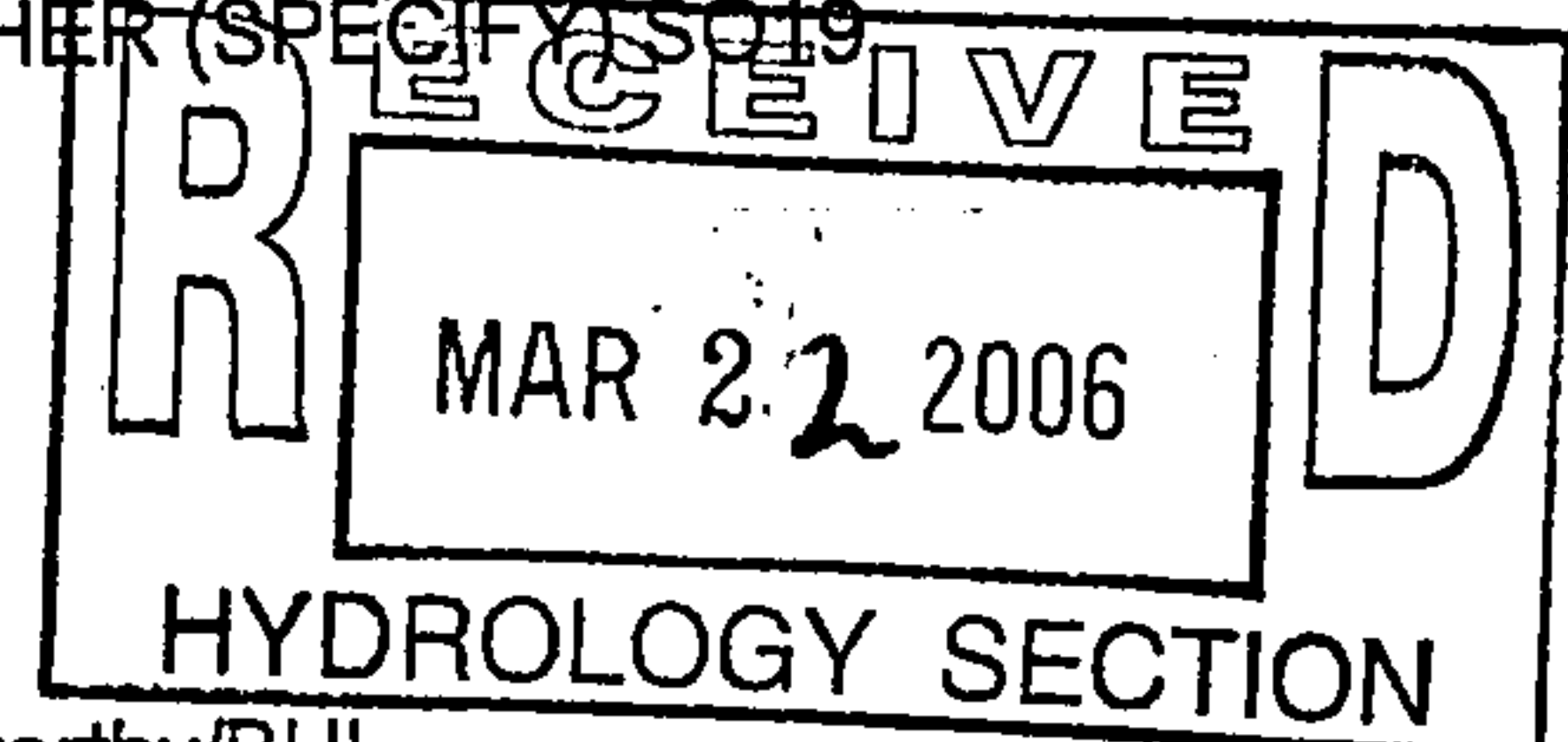
- ☐ DRAINAGE REPORT
- ☐ DRAINAGE PLAN
- ☐ CONCEPTUAL GRADING & DRNG. PLAN (amendment)
- ☐ GRADING PLAN
- ☐ EROSION CONTROL PLAN
- ☒ ENGINEER'S CERTIFICATION (HYDROLOGY)
- ☐ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT (TCL)
- ☐ ENGINEERS CERTIFICATION (TCL)
- ☐ ENGINEERS CERTIFICATION (DRB APPR. SITE PLAN)
- ☐ OTHER - REVISED GRADING PLAN

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:

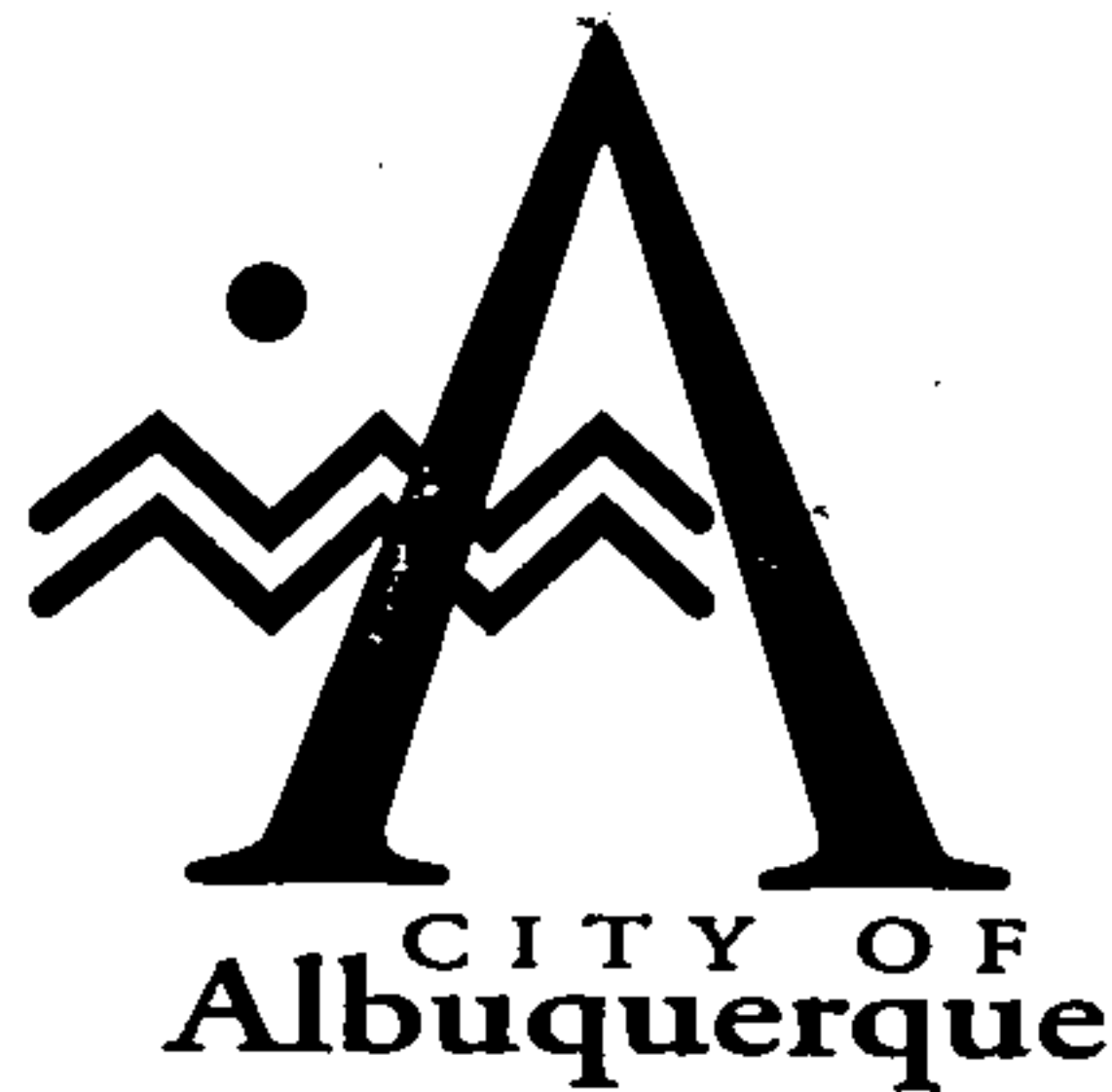
- ☐ YES
- ☐ NO
- ☐ COPY PROVIDED



DATE SUBMITTED: 3/13/06 - Resubmitted 3/21/06 BY: Bruce Stidworthy/BHI
by Jeff Wooten

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 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 subdivisions containing more than ten (10) lots or constituting five (5) acres or more.



June 6, 1996

Martin J. Chávez, Mayor

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

RE: DRAINAGE PLAN FOR AN ADDITION AND PAVING @ MONTEZUMA
ELEMENTARY SCHOOL (J16-D9) ENGINEER'S STAMP DATED 5/21/96.

Dear Mr. Mortensen:

Based on the information provided on your May 23, 1996 submittal, the above referenced site is approved for Building & S.O. 19 permit.

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

Also, a separate permit is required for construction within City Right-of-Way. A copy of this approval letter must be on hand when applying for the excavation permit.

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

Sincerely,

Bernie J. Montoya, CE
Engineering Associate

BJM/dl

c: Andrew Garcia
Arlene Portillo

File

Good for You, Albuquerque!





City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

June 11, 2004

Bruce Stidworthy, PE
Bohannon Huston, Inc.
7500 Jefferson NE- Courtyard 1
Albuquerque, NM 87109

**RE: Montezuma Elementary School Addition Grading and Drainage Plan
Engineer's Stamp Dated 5-25-04 (J-16/D9)**

Dear Mr. Stidworthy:

Based on the information provided in your submittal received 5-25-04, 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.

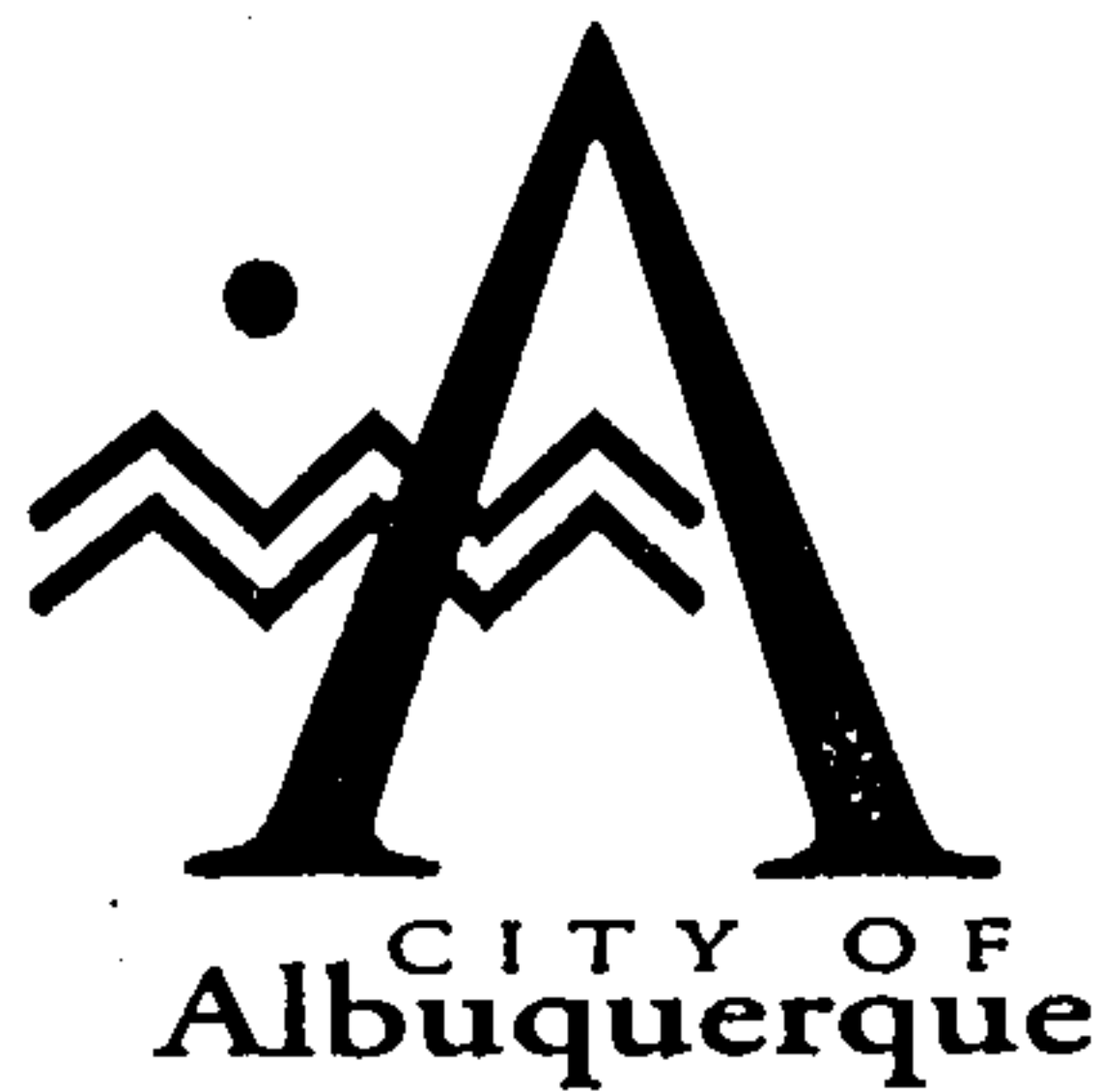
This project requires a National Pollutant Discharge Elimination System (NPDES) permit. If you have any questions regarding this permit please feel free to call the DMD Storm Drainage Design section at 768-3654 (Charles Caruso) or 768-3645 (Bryan Wolfe).

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

Sincerely,

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

C: Charles Caruso, DMD Storm Drainage Design
File



Public Works Department
March 27, 1997

Martin J. Chávez, Mayor

Robert E. Gurulé, Director

Jeff Mortensen
Jeff Mortensen & Associates
6010-B Midway Park Blvd. NE
Albuquerque, NM 87199

**RE: MONTEZUMA ELEMENTARY SCHOOL (J16-D9), 1616 RICHMOND DR. NE.
ENGINEER'S CERTIFICATION FOR CERTIFICATE OF OCCUPANCY.
ENGINEER'S CERTIFICATION DATED MARCH 18, 1997.**

Dear Mr. Mortensen:

Based on the information provided on your March 19, 1997 submittal, the above referenced project is approved for Certificate of Occupancy.

If I can be of further assistance, please feel free to contact me at 924-3986.

Sincerely,

Bernie J. Montoya CE
Engineering Associate

c: Andrew Garcia

File

Good for You, Albuquerque!



DRAINAGE INFORMATION SHEET

950654

PROJECT TITLE: MONTEZUMA
ELEMENTARYZONE ATLAS/DRNG. FILE #: J16/D9

DRP #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: _____

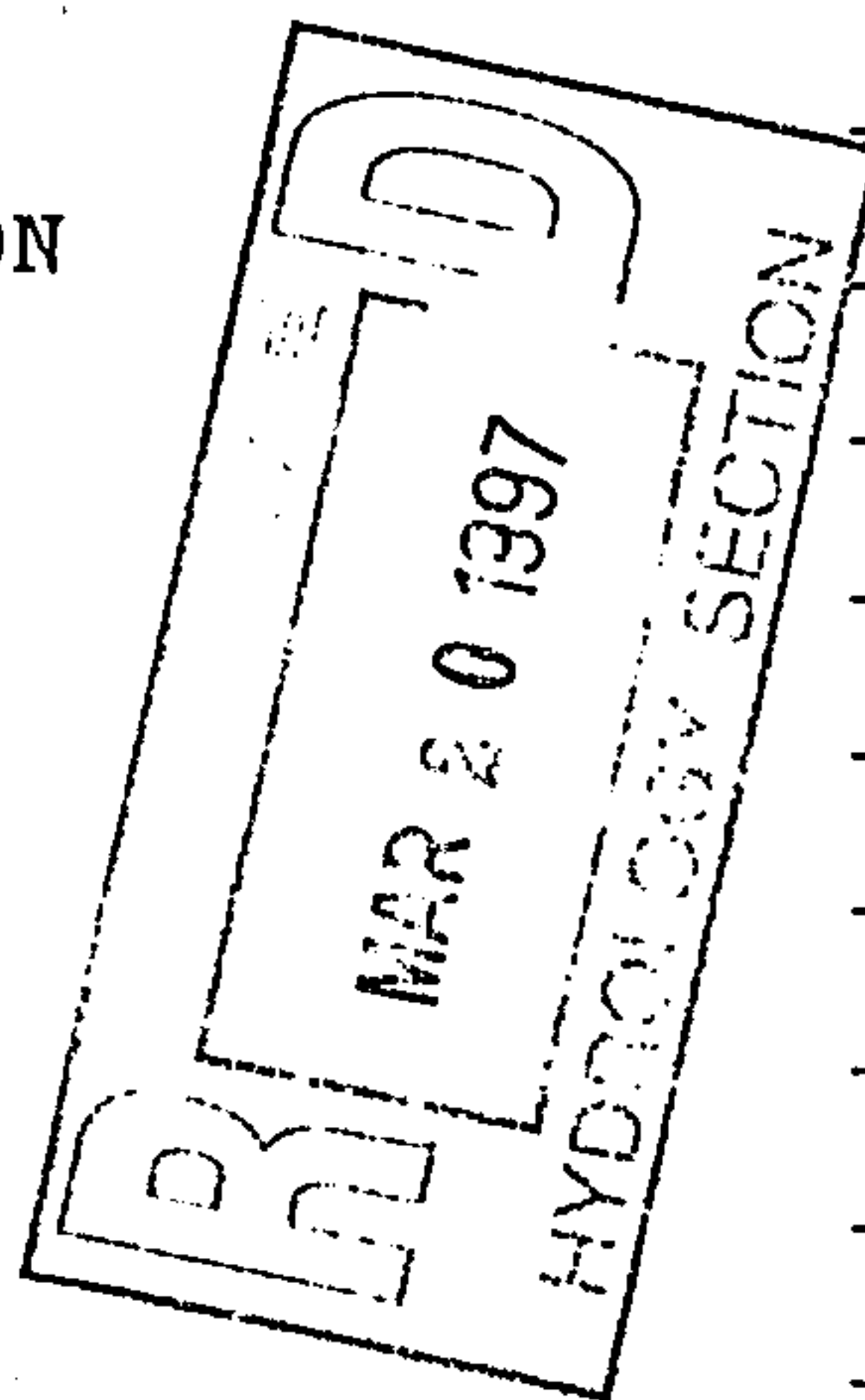
CITY ADDRESS: 1616 RICHMOND NE 87106ENGINEERING FIRM: JEFF MORTENSEN & ASSOC. CONTACT: JEFF MORTENSENADDRESS: 6010-B MIDWAY PARK BLVD NE PHONE: 345-4250OWNER: APS CONTACT: GERRY BROWNADDRESS: DFPC PHONE: 242-5865ARCHITECT: DCA CONTACT: DAN JONESADDRESS: 2021 GIRARD SE PHONE: 243-3311
SUITE 110SURVEYOR: JEFF MORTENSEN & ASSOC CONTACT: JEFF MORTENSENADDRESS: 6010-B MIDWAY PARK BLVD NE PHONE: 345-4250CONTRACTOR: TELSTAL CONTACT: KIMADDRESS: 8601 WASHINGTON NE PHONE: 821-5600
87113

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)

30-day temp on
 3-20-97 CAM.

DATE SUBMITTED: 03-19-97BY: JEFFREY G. MORTENSEN



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

December 19, 1995

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

RE: DRAINAGE PLAN FOR MULTI-PURPOSE BUILDING @ MONTEZUMA
ELEMENTARY SCHOOL (J16-D9) ENGINEER'S STAMP DATED 12/8/95.

Dear Mr. Mortensen:

Based on the information provided on your December 12, 1995 submittal, the above referenced site is approved for Building Permit and S.O. 19.

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

Also, a separate permit is required for construction within City Right-of-Way.

Prior to Certificate of Occupancy release, Engineer Certification per the D.P.M. checklist will be required.

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

Sincerely,

Bernie J. Montoya, CE
Engineering Associate

BJM/dl

c: Andrew Garcia
File

DRAINAGE INFORMATION SHEET

950653

PROJECT TITLE: MONTESUMA ELEMZONE ATLAS/DRNG. FILE #: J-16/DO09

DRB #:

EPC #:

WORK ORDER #:

LEGAL DESCRIPTION:

BLOCKS 5 & 6, HAINES TRACT, C2-14; PUBLIC ROW WITHIN BRYN MAWR N.E., WEST 30' OF LAFAYETTE N.E.

CITY ADDRESS:

1616 RICHMOND NE

ENGINEERING FIRM:

JMA

CONTACT:

GRAEME MEANSADDRESS: 6010-B MIDWAY PARK BLVD NE

PHONE:

345-4250

OWNER:

APS DEPT. FACILITIES PLANNING

CONTACT:

GERRY BROWN

ADDRESS:

PHONE:

242-5865

ARCHITECT:

DALE CRAWFORD & ASSOC.

CONTACT:

DAN JONES

ADDRESS:

PHONE:

275-0157

SURVEYOR:

JMA

CONTACT:

CHUCK CALA

ADDRESS:

PHONE:

345-4250

CONTRACTOR:

NOT YET AWARDED

CONTACT:

ADDRESS:

PHONE:

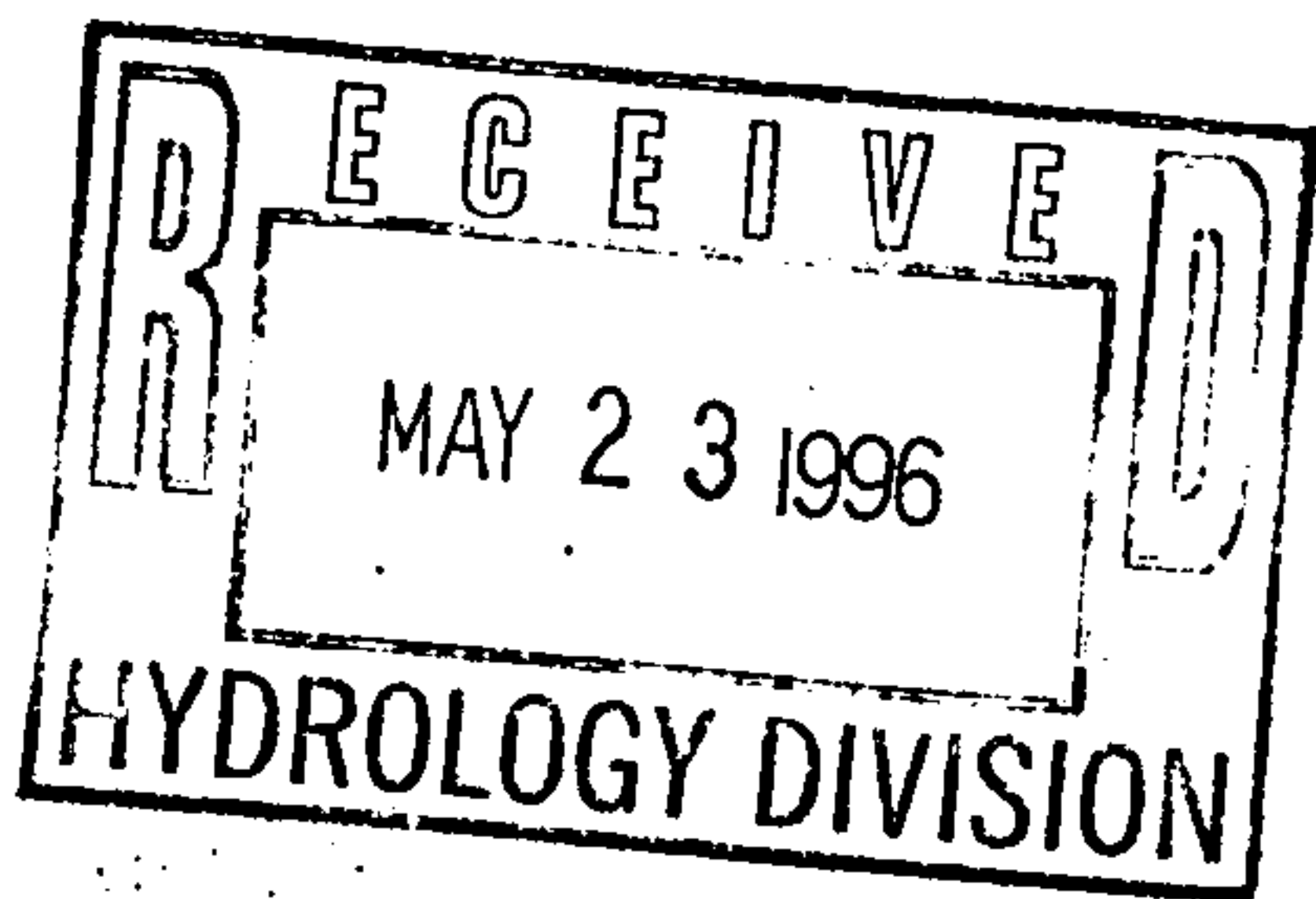
TYPE OF SUBMITTAL:

☐ 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. 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 SO #19 (SPECIFY)

PRE-DESIGN MEETING:

☒ YES☐ NO☐ COPY PROVIDED

DATE SUBMITTED:

5/23/96

BY:

J. GRAEME MEANS

DRAINAGE INFORMATION SHEET

950651

PROJECT TITLE: MONTICUMA ELEMENTARY ZONE ATLAS/DRNG. FILE #: J-16/009
DRB #: EPC #: WORK ORDER #:
LEGAL DESCRIPTION: BLOCKS 5 & 6, HAINES TRACT, C2-114; PUBLIC R.O.W. WITHIN BRYN MAWR NE
WEST 30' OF LAFAYETTE DR NE
CITY ADDRESS: 1616 RICHMOND NE
ENGINEERING FIRM: JMA CONTACT: GRAEME MEANS
ADDRESS: 6010-B MIDWAY PARK NE PHONE: 345-4250
87109
OWNER: A.P.S. CONTACT: GERY BROWN
ADDRESS: PHONE:
ARCHITECT: DALE CRAWFORD & ASSOC. CONTACT: DAN JONES
ADDRESS: 10701-F MONTGOMERY NE PHONE: 275-0157
87111
SURVEYOR: JMA CONTACT: CHUCK CALA
ADDRESS: 6010-B MIDWAY PARK BLVD NE 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

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 SO #19 (SPECIFY)

DATE SUBMITTED:

12/12/95BY:

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

750851

PRE-DESIGN CONFERENCE

DRAINAGE FILE/ZONE ATLAS PAGE NO.: J 16/009 DATE: 4/25/91

EPC NO.: _____ DRB NO.: _____ ZONE: _____

SUBJECT: MONTAZUMA ELEMENTARY School

STREET ADDRESS: CORNER OF HAINES, Richmond and Indian School

LEGAL DESCRIPTION: _____

APPROVAL REQUESTED: _____ PRELIMINARY PLAT _____ FINAL PLAT

_____ SITE DEVELOPMENT PLAN X BUILDING PERMIT

_____ GRADING/PAVING PERMIT _____ OTHER _____

ATTENDANCE: WHO VIC CHAVEZ REPRESENTING _____

FRED J. AGUIRRE _____

FINDINGS: _____

An approved drainage plan is required
for building permit sign-off.

OPTION 1:

Maintain existing pond with no connection
to the back of a catch basin OR storm drain
in Indian School. No downstream
ANALYSIS REQUIRED.

OPTION 2:

Eliminate Pond by conveying APS
flows overland via Indian Sch Rd to the
existing SD. Downstream capacity analysis
will be 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: _____ DATE: _____

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

950651



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

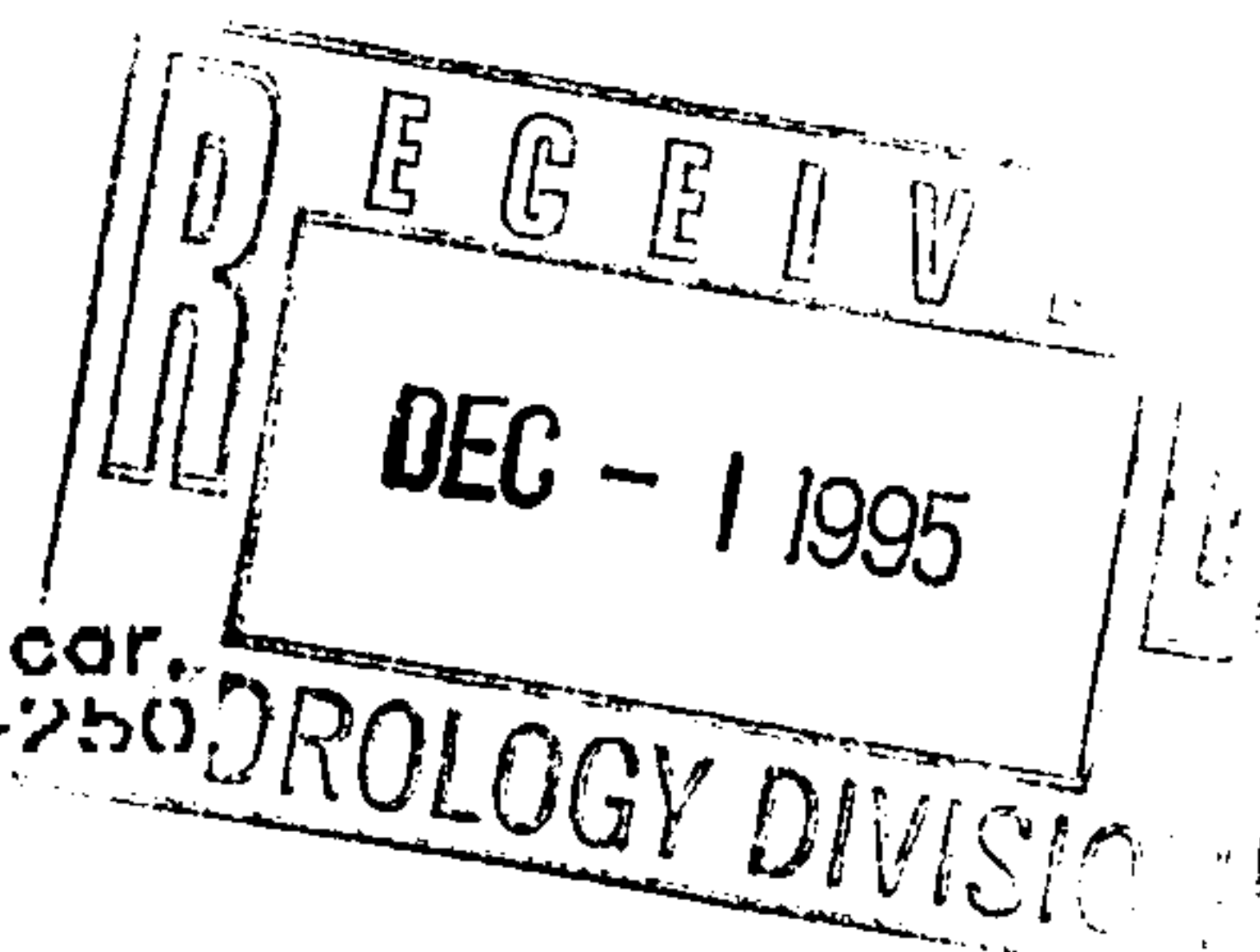
FAX (505) 345-4254

FAX TRANSMITTAL

JTB-D9

TO: BERNIE MONTROYAFIRM: S.O.A. P.W.D. DEPT.
HYDROLOGY SECTIONFACSIMILE NUMBER: 768-2679FROM: GRAEME MEANSSUBJECT: MONTEZUMA-ELEMENTARY SCHOOLMESSAGE: NEEDS THE ZONE ATLAS AND
LEGAL DESCRIPTION OF THE SCHOOL
I ASKED YOU ABOUT EARLIERNUMBER OF PAGES: 3 (Including this page)

If the transmission is incomplete or unclear,
please notify us at once at (505) 345-4250



located at the intersection of Indian School Road N.E. and Lafayette Drive
N.E. in the northwest quadrant of the intersection.
Elevation = 5145.338 M.S.L.D.

T.B.M.

A "□" Chiseled on top of concrete as shown on the drawing.
Elevation = 5154.52 feet (M.S.L.D.)

LEGAL DESCRIPTION

Blocks 5 and 6, Haines Tract, C2-114; And the Public Right-of-Way within
Bryn Mawr Ave NE vacated by the Board of County Commissioners of Bernalillo County
and the west 30' of Lafayette Drive NE vacated by Commission Ordinance No. 1361, V-173.

LEGEND

TSW	TOP OF SIDEWALK
TC	TOP OF CURB
TA	TOP OF ASPHALT
TW	TOP OF WALL
FL	FLOW LINE
NG	NATURAL GROUND
E/A	EDGE OF ASPHALT
O/H	OVERHEAD
U/G	UNDERGROUND
+ 45.58	EXISTING SPOT ELEVATION
=====	EXISTING CONTOUR
=====	EXISTING BASIN BOUNDARY LINE

NOTE: SCREENED INFORMATION FROM PREVIOUS WORK

NOTE:

WATER, SANITARY SEWER AND STORM DRAIN LINES ARE SHOWN IN THE APPROXIMATE
LOCATION ONLY. LINES TAKEN FROM CITY OF ALBUQUERQUE DISTRIBUTION

BAR & CAP STAMPED

/WA MER STAMPED

7.71 Feet (M.S.L.D.)

(P. 1111)

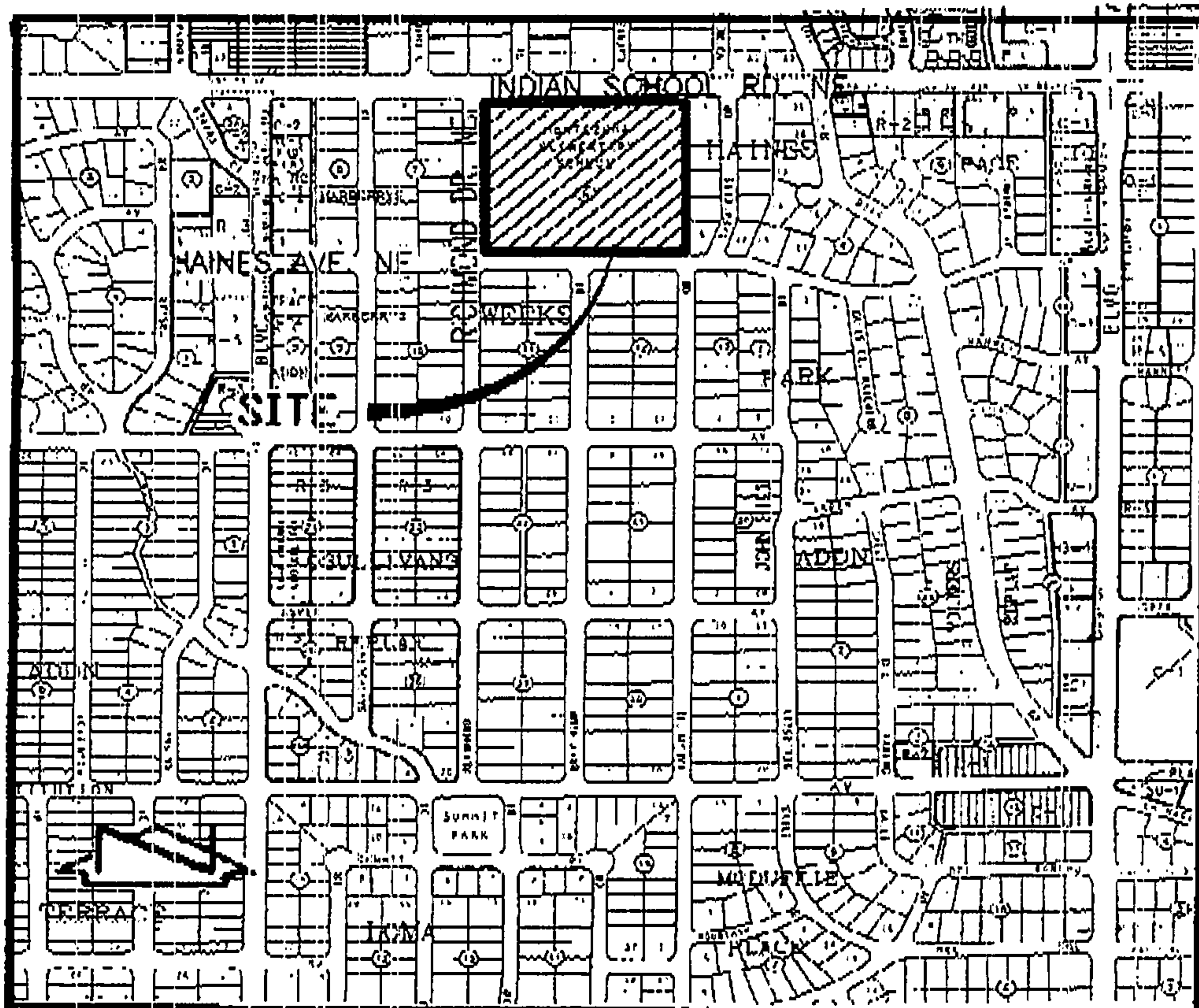


SCALE: 1" = 30'



1E

DEF NONE

**VICINITY MAP**

SCALE: 1" = 750'

J-16**PROJECT BENCHMARK**

ACS Station "3-H13" a square, $\square$, chiseled on top of the WNW curb return located at the intersection of Indian School Road N.E. and Lafayette Drive N.E. in the northwest quadrant of the intersection.
Elevation = 5145.333 M.S.L.D.

T.B.M.

A $\square$ Chiseled on top of concrete as shown on the drawing.
Elevation = 5154.52 feet (M.S.L.D.)

LEGAL DESCRIPTION

Blocks 5 and 6, Haines Tract, C2-114; And the Public Right-of-Way within Bryn Mawr Ave. NE vacated by the Board of County Commissioners of Bernalillo County and the west 30' of Lafayette Drive NE vacated by Commission Ordinance No. 1361, V-173.

LEGEND

TSW	TOP OF SIDEWALK
TC	TOP OF CURB
TA	TOP OF ASPHALT
IW	TOP OF WALL
FL	FLOW LINE
NG	NATURAL GROUND
E/A	EDGE OF ASPHALT
O/H	OVERHEAD
U/G	UNDERGROUND
+ 45.53	EXISTING SPOT ELEVATION
---	EXISTING CONTOUR
	EXISTING BASIN BOUNDARY LINE

NOTE: SCREENED INFORMATION FROM PREVIOUS WORK

NOTE:
WATER, SANITARY SEWER AND STORM DRAIN LINES ARE SHOWN IN AN APPROXIMATE MANNER ONLY. LOCATION DATA WAS TAKEN FROM CITY OF ALBUQUERQUE DISTRIBUTION MAPS.



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

July 16, 1992

Jeff Mortensen
Jeff Mortensen & Associates, Inc.
6010-B Midway Park Boulevard, NE
Albuquerque, New Mexico 87109

RE: ENGINEER'S CERTIFICATION FOR MONTEZUMA ELEMENTARY SCHOOL (J-16/D9)
CERTIFICATION STATEMENT DATED JUNE 2, 1992

Dear Mr. Mortensen:

Based on the information provided on your submittal of July 1, 1992,
Engineer's Certification for the referenced site is acceptable.

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

Cordially,

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

xc: Alan Martinez

BJM/bjf
(WP+3062)

PUBLIC WORKS DEPARTMENT

RAINAGE INFORMATION SHEET

901874

MONTEZUMA

PROJECT TITLE: ELEMENTARY SCHOOL ZONE ATLAS/DRNG. FILE #: J16/D9

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

LEGAL DESCRIPTION: BLOCKS 5 & 6 HAINES TRACT

CITY ADDRESS: 1616 RICHMOND NE

ENGINEERING FIRM: JEFF MORTENSEN & ASSOC. CONTACT: JEFF MORTENSEN

ADDRESS: 6010-B MIDWAY PARK BLVD NE PHONE: 345-4250

OWNER: APS CONTACT: BOB ROBBIE

ADDRESS: _____ PHONE: 242-5865

ARCHITECT: DALL CRAWFORD & ASSOC CONTACT: _____

ADDRESS: 117 JEFFERSON NE PHONE: _____

SURVEYOR: JEFF MORTENSEN & ASSOC CONTACT: JEFF MORTENSEN

ADDRESS: 6010-B MIDWAY PARK BLVD NE PHONE: 345-4250

CONTRACTOR: TELSTAR CONSTR. CONTACT: MIKE SUBBERT

ADDRESS: 4410 CHANKINS NE PHONE: 293-2907

TYPE OF SUBMITTAL:

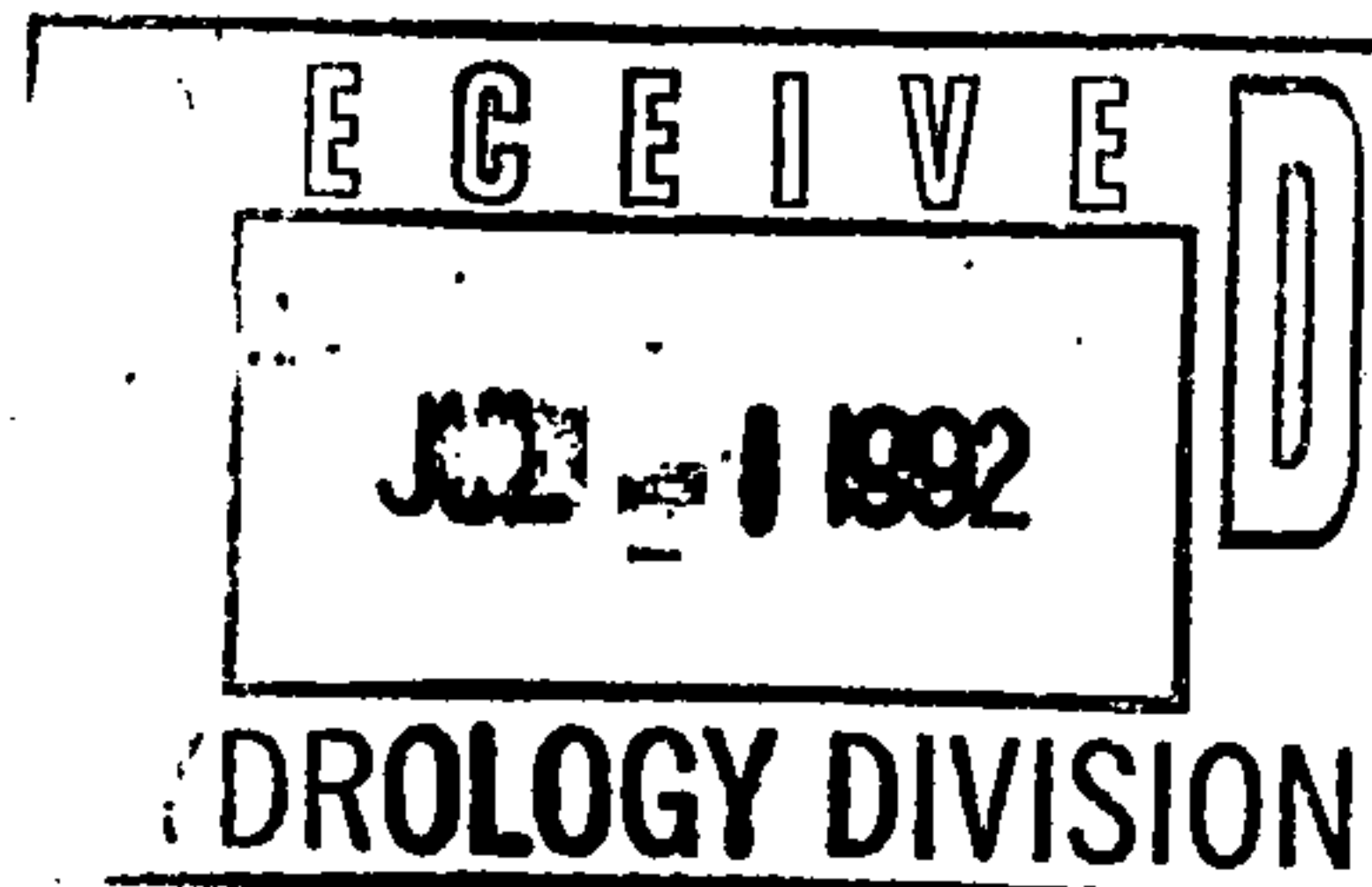
- ☐ DRAINAGE REPORT
- ☐ DRAINAGE PLAN
- ☐ CONCEPTUAL GRADING & DRAINAGE PLAN
- ☐ GRADING PLAN
- ☐ EROSION CONTROL PLAN
- ☒ ENGINEER'S CERTIFICATION
- ☐ OTHER

CHECK TYPE OF APPROVAL SOUGHT:

- ☐ SKETCH PLAT APPROVAL
- ☐ PRELIMINARY PLAT APPROVAL
- ☐ S. DEV. PLAN FOR SUB'D. APPROVAL
- ☐ S. DEV. PLAN FOR BLDG. 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: 06-03-92

BY: JEFFREY G. MORTENSEN

XC: VICTOR J. CHAVEZ



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

December 13, 1991

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

RE: REVISED DRAINAGE PLAN FOR AN ADDITION TO MONTEZUMA
ELEMENTARY (J-16/D9) DRAINAGE PLAN DATED NOVEMBER 15, 1991
AND TOPOGRAPHIC PLAN DATED MARCH, 1991

Dear Mr. Chavez:

Based on the information provided on your submittal of November 15 and December 10, 1991, the above referenced plan is approved for Building Permit.

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

Please be advised that prior to Certificate of Occupancy release, Engineer's Certification per the DPM Checklist is required.

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

Cordially,

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

xc: Alan Martinez

BJM/bsj
(WP+3062)

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: MONTIZUMA ELEM ZONE ATLAS/DRNG. FILE #: J-16

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

LEGAL DESCRIPTION: BLOCK 5 & 6 HAINS TR.

CITY ADDRESS: _____

ENGINEERING FIRM: CHAVEZ-GRIEVOS CONTACT: Ray Gomez

ADDRESS: 4600-C MONTGOMERY PHONE: 881-7376

OWNER: ALB. PUBLIC SCHOOLS CONTACT: _____

ADDRESS: _____ PHONE: _____

ARCHITECT: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

SURVEYOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

CONTRACTOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

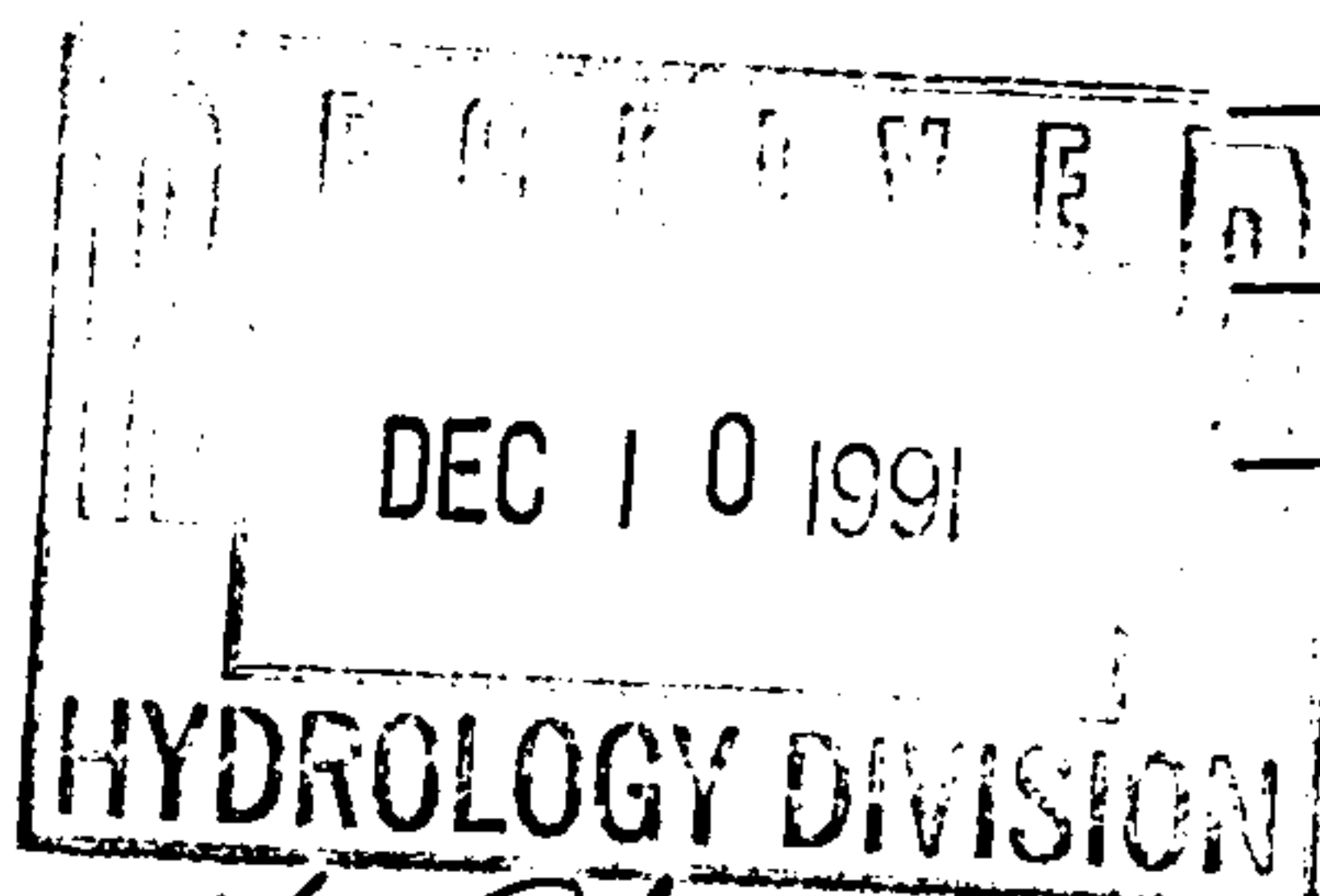
- ☐ DRAINAGE REPORT
☐ DRAINAGE PLAN
☐ CONCEPTUAL GRADING & DRAINAGE PLAN
☐ GRADING PLAN
☐ EROSION CONTROL PLAN
☐ ENGINEER'S CERTIFICATION
☒ OTHER (SUPPLEMENT)

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: 12-11-91

BY: Ray Doney



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

November 25, 1991

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

RE: DRAINAGE PLAN FOR AN ADDITION TO MONTEZUMA ELEMENTARY
(J-16/D9) ENGINEER'S STAMP DATED NOVEMBER 15, 1991

Dear Mr. Chavez:

Based on the information provided on your submittal of November 15, 1991, we are unable to review the plan submitted because neither of the options stipulated on the Pre-Design Conference have been satisfied.

Whichever option is chosen, a complete picture must be shown including existing pond and the route that the runoff is taking towards the pond.

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

Cordially,

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

BJM/bsj
(WP+3062)

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: MONTBZUMTA E2BM ZONE ATLAS/DRNG. FILE #: J-16/P9

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

LEGAL DESCRIPTION: BLK 5 & 6 Hains TR.

CITY ADDRESS: 1616 Richmond Dr NE

ENGINEERING FIRM: CHAVEZ-BRIBES CONTACT: Ray Gomez

ADDRESS: 4600 - E MONTGOMERY PHONE: 881-7376

OWNER: APS CONTACT: _____

ADDRESS: _____ PHONE: _____

ARCHITECT: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

SURVEYOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

CONTRACTOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

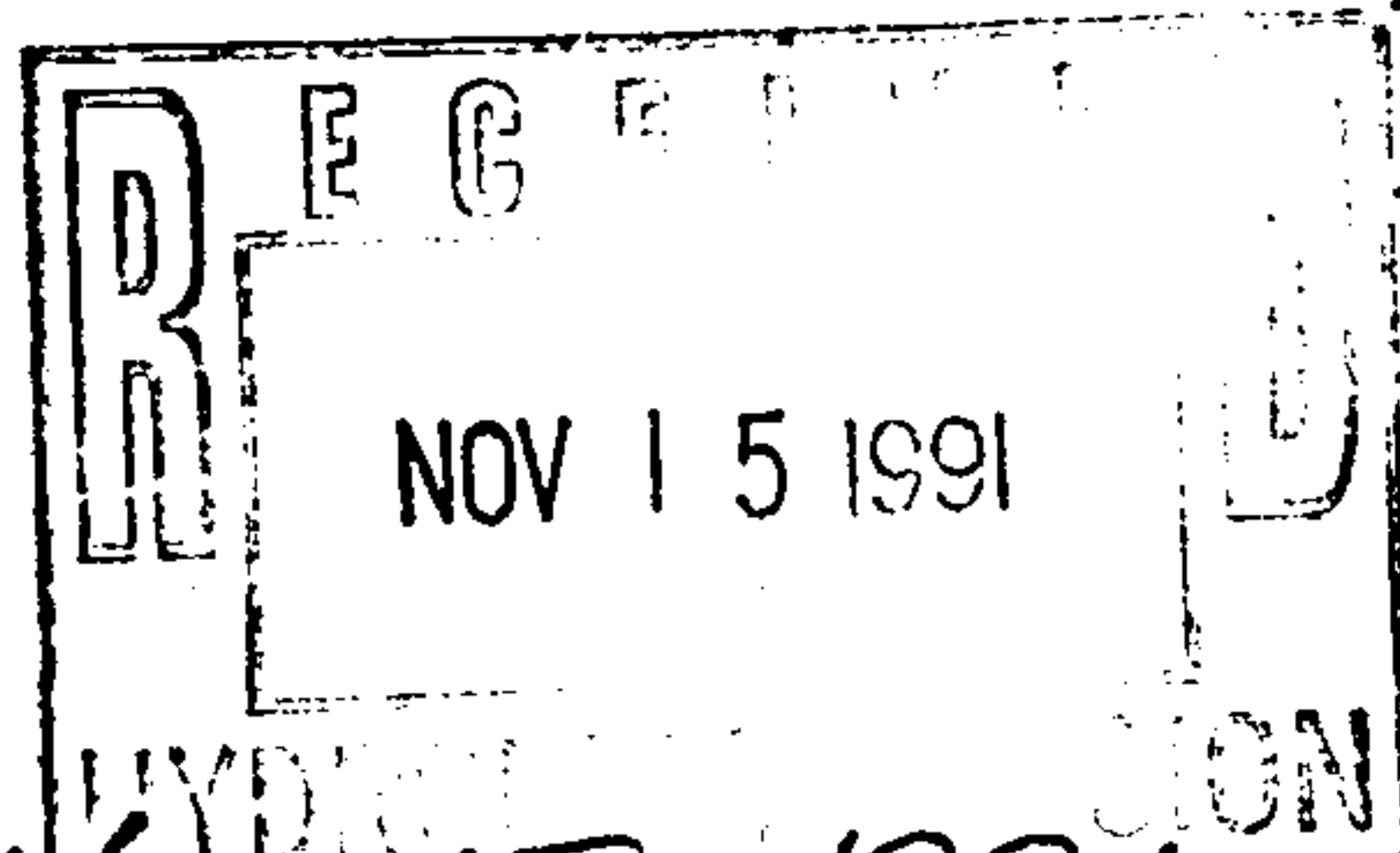
- ☐ DRAINAGE REPORT
☒ DRAINAGE PLAN
☐ CONCEPTUAL GRADING & DRAINAGE PLAN
☒ GRADING PLAN
☐ EROSION CONTROL PLAN
☐ ENGINEER'S CERTIFICATION
☐ OTHER

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: Nov. 15, 1991

BY: Ray Gomez

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

PRE-DESIGN CONFERENCE

DRAINAGE FILE/ZONE ATLAS PAGE NO.: J 16 DATE: 4/25/91
EPC NO.: _____ DRB NO.: _____ ZONE: _____
SUBJECT: Montezuma Elementary School
STREET ADDRESS: CORNER OF HAINES, Richmond and Indian School
LEGAL DESCRIPTION: _____

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

ATTENDANCE: Vic CHAVEZ WHO REPRESENTING
FRED J. AGUIRRE _____

FINDINGS: An APPROVED DRAINAGE plan is required
FOR BUILDING permit sign-off.
OPTION 1:
MAINTAIN EXISTING POND WITH NO CONNECTION
TO THE BACK OF A CATCH BASIN OR STORM DRAIN
IN INDIAN SCHOOL. NO DOWNSTREAM
ANALYSIS REQUIRED.
OPTION 2:
ELIMINATE POND BY CONVEYING APS
FLOWS OVERLAND VIA INDIAN SCH RD TO THE
EXISTING SD. DOWNSTREAM CAPACITY ANALYSIS
WILL BE 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: _____ DATE: _____

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