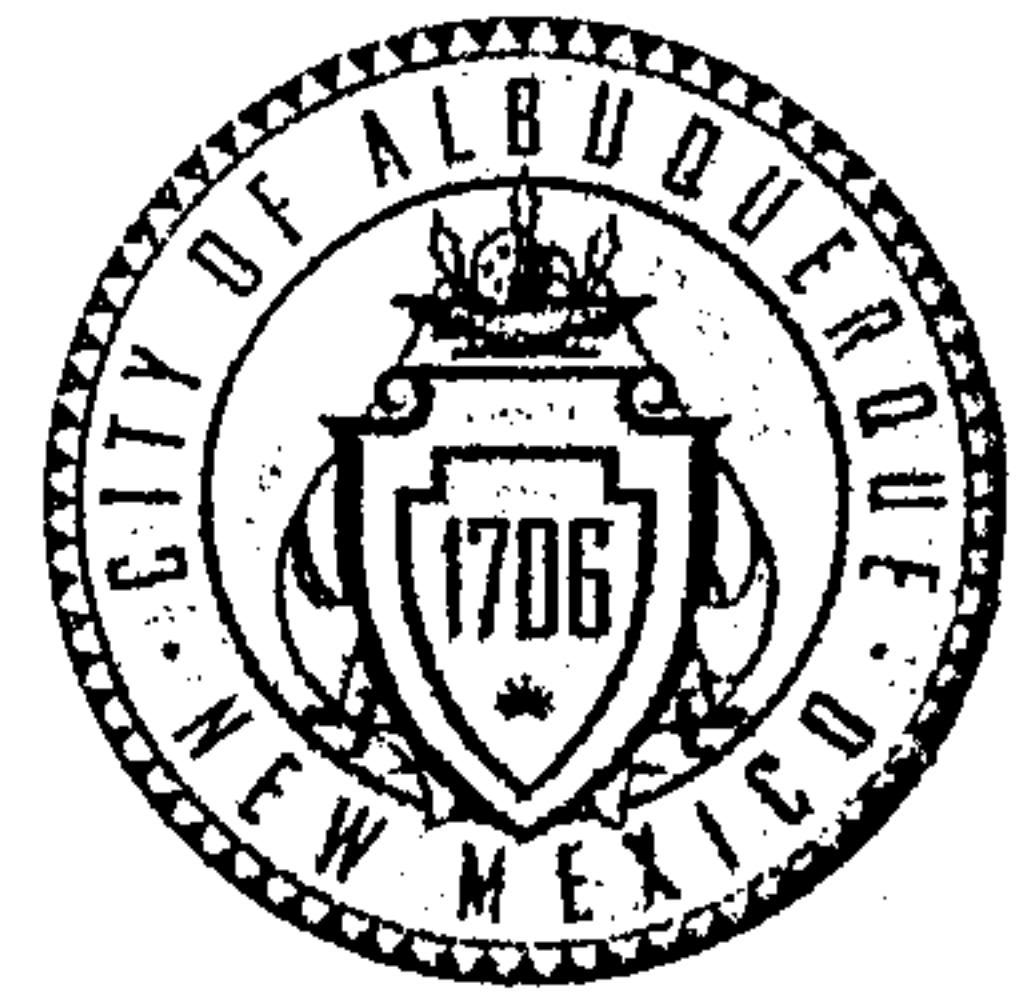


CITY OF ALBUQUERQUE



September 5, 2013

Robert Calvani, Registered Architect
NCA Architect, Planners
1306 Rio Grande Blvd. NW
Albuquerque, NM 87104

**Re: Inez Elementary School,
1700 Pennsylvania NE
Certificate of Occupancy – Transportation Development
Engineer's Stamp dated 08-22-13 (J19-D067)
Certification dated 08-22-13**

Dear Mr. Calvani,

Based upon the information provided in your submittal received 09-05-13, Transportation Development has no objection to the issuance of a Permanent Certificate of Occupancy. This letter serves as a "green tag" from Transportation Development for a Permanent Certificate of Occupancy to be issued by the Building and Safety Division.

PO Box 1293

If you have any questions, you can contact me at 924-3630.

Albuquerque

Sincerely,

New Mexico 87103

Milo Salgado-Fernandez, P.E.
Senior Traffic Engineer, Planning Dept.
Development Review Services

www.cabq.gov

C: Engineer
CO Clerk
File



J19/DO67

Robert M. Calvani

John C. Layman

Thomas C. Wilber

Nilo E. Salgado-Fernandez

**Reference: APS-Inez Elementary School Cafeteria
1700 Pennsylvania Avenue NE
Albuquerque, NM**

09.03.2013

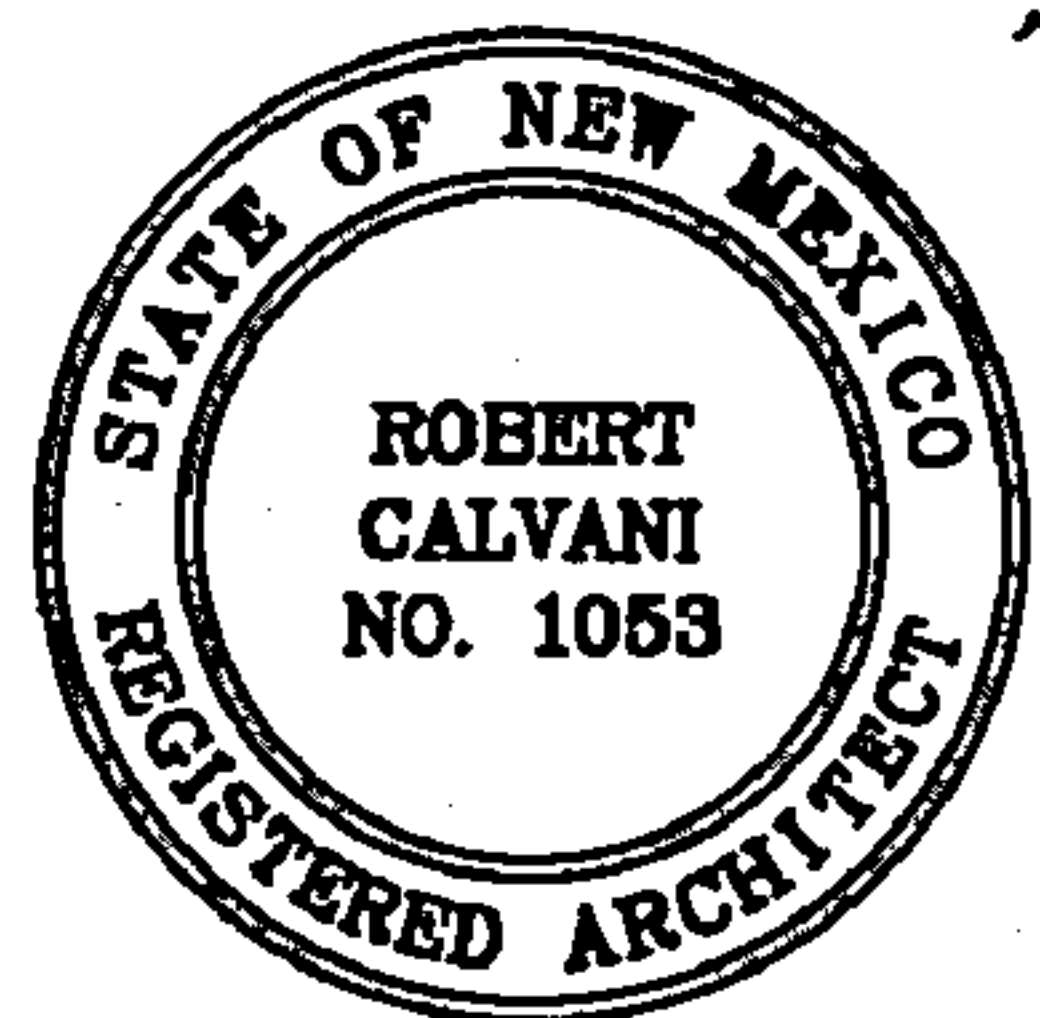
Request for Re-inspection of the above reference project:

Dear Mr. Salgado-Fernandez,

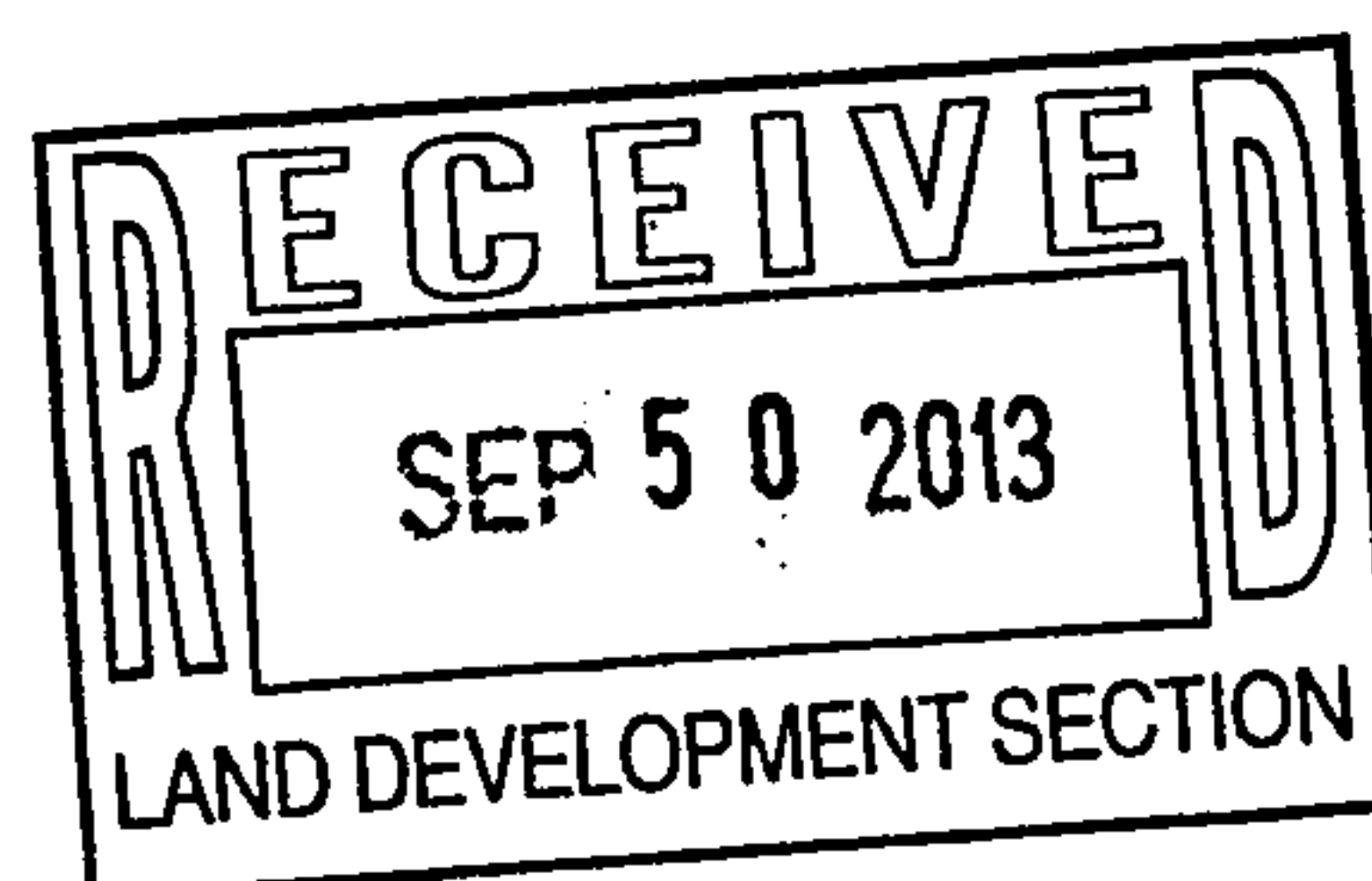
NCA Architects has been notified by the General Contractor, TA Cole & Sons, that the correction work requested by the COA Transportation Department has been completed. This letter is to formally request a final inspection for approval of the Certificate of Occupancy.

Sincerely
Robert Calvani

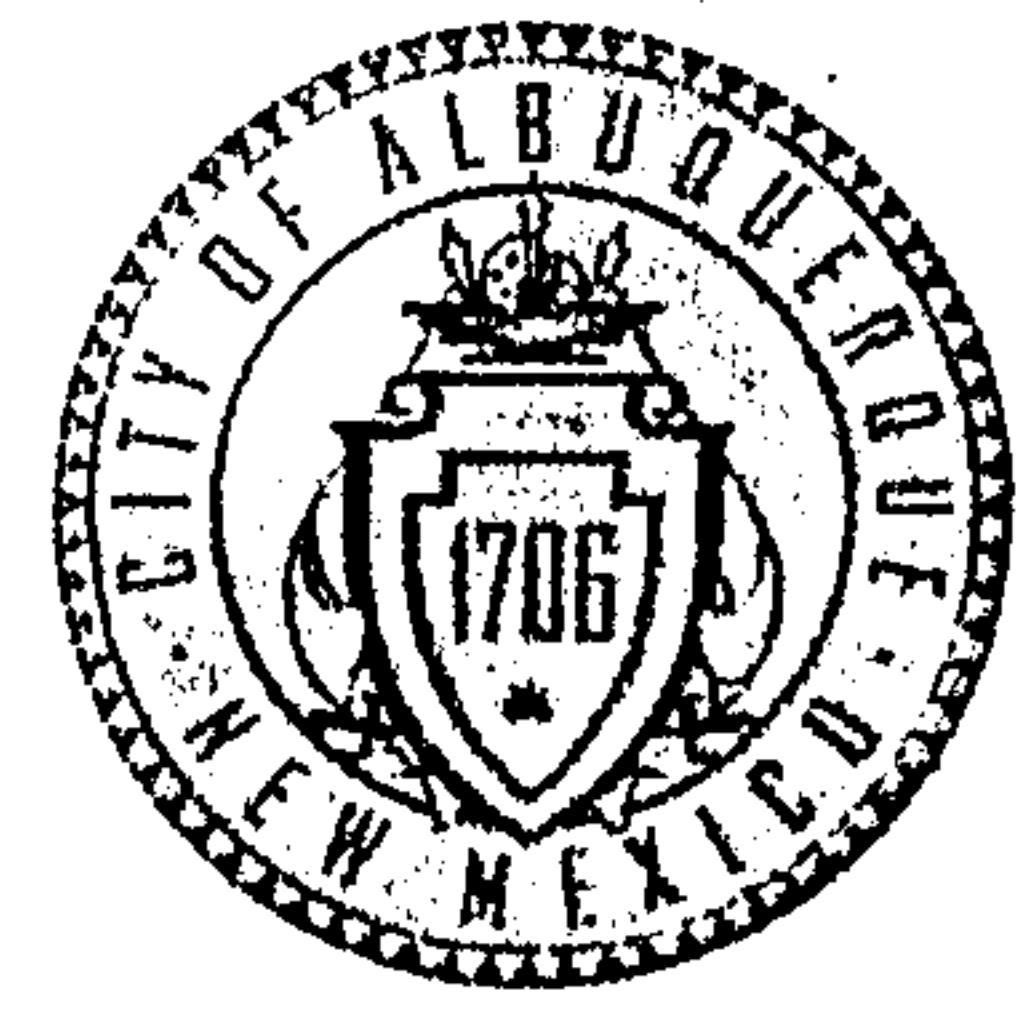
Signature of Engineer or Architect
8.22.13
Date



ENGINEER'S OR ARCHITECT'S STAMP



CITY OF ALBUQUERQUE



August 23, 2013

Robert Calvani, Registered Architect
NCA Architect, Planners
1306 Rio Grande Blvd. NW
Albuquerque, NM 87104

**Re: Inez Elementary School,
1700 Pennsylvania NE
Certificate of Occupancy – Transportation Development
Engineer's Stamp dated 08-22-13 (J19-D067)
Certification dated 08-22-13**

Dear Mr. Calvani,

The Letter of Certification submitted on 08-22-13 is not sufficient for acceptance by this office for Permanent Certificate of Occupancy (C.O.). The following items need to be addressed and completed:

PO Box 1293

Albuquerque

- Wheel ramp concrete work needs to be completed adjacent to Mini Gym building.
- Directional and Stop sign height needs to be adjusted to seven from bottom of sign to ground/sidewalk surface elevation. All private signage needs to be located within private property (verify).
- Van Accessible sign/plate needs to be relocated to the van accessible stall/space location.

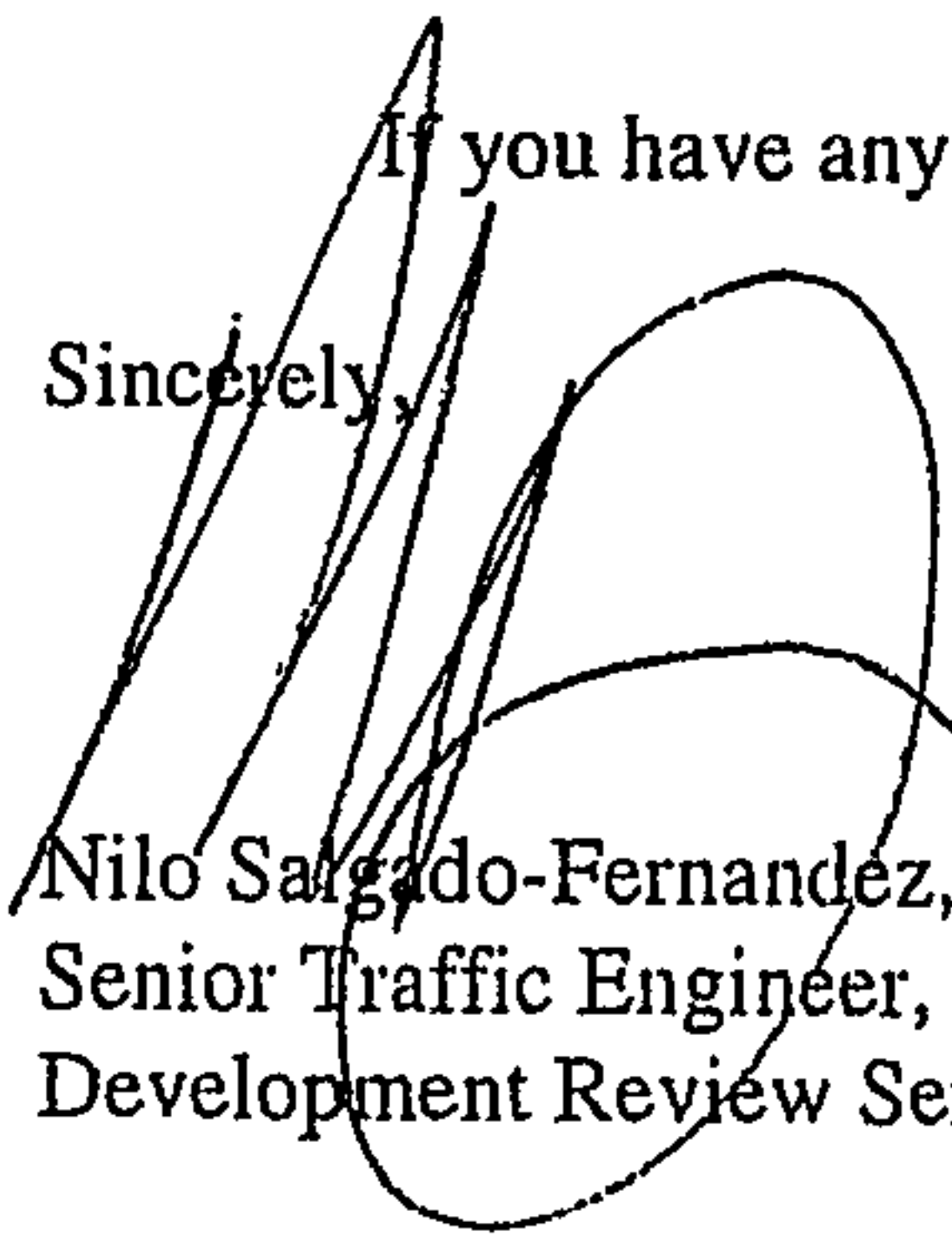
New Mexico 87103

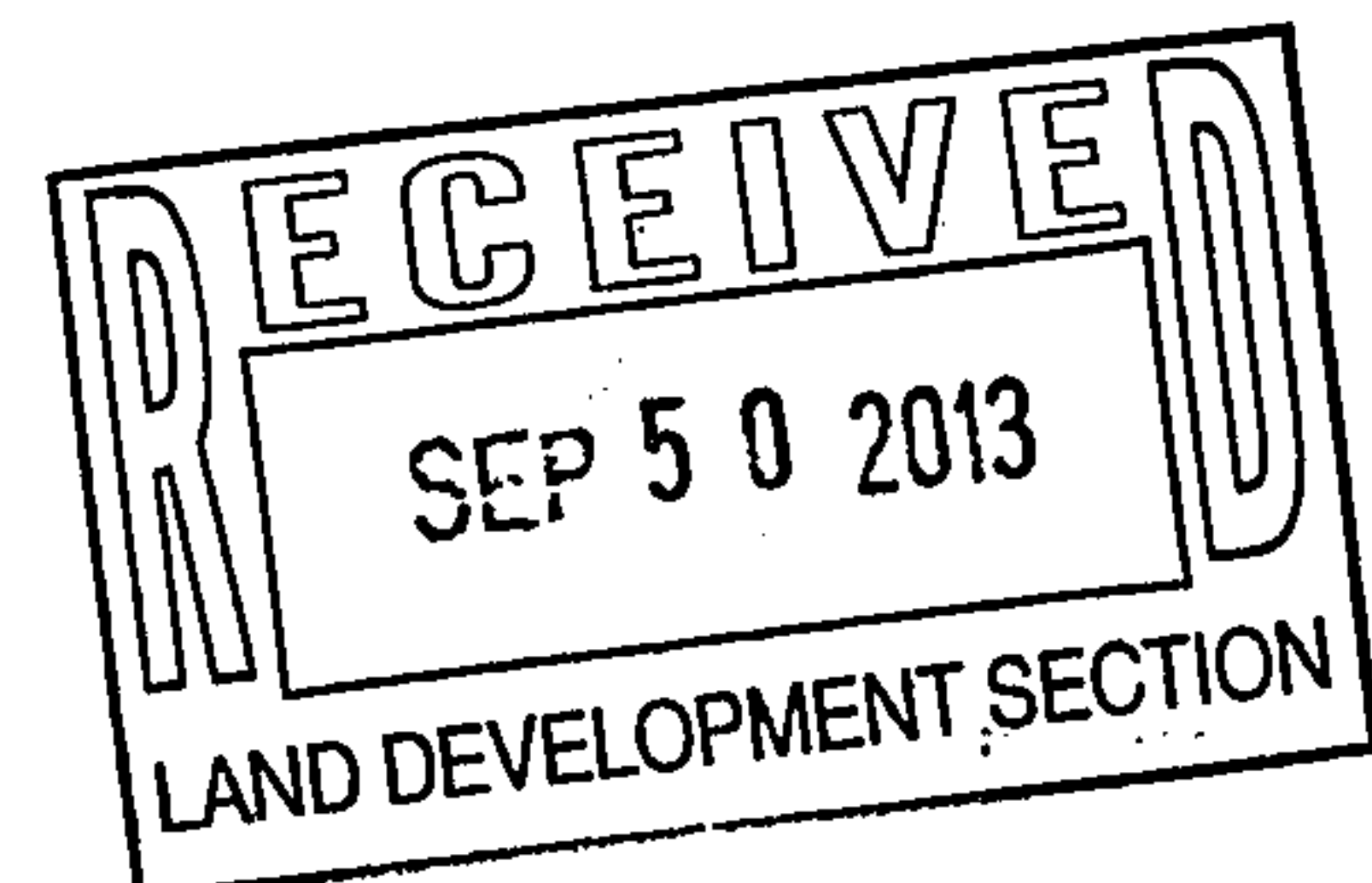
The issuance of a **30-day Temporary Certificate of Occupancy** has been provided until the above item has been addressed. This letter serves as a "green tag" from Transportation Development for a **30-day Temporary Certificate of Occupancy** to be issued by the Building and Safety Division.

If you have any questions, you can contact me at 924-3630.

www.cabq.gov

Sincerely,


Nilo Salgado-Fernandez, P.E.
Senior Traffic Engineer, Planning Dept.
Development Review Services



C: Engineer
CO Clerk
File

DRAINAGE AND TRANSPORTATION INFORMATION SHEET
(REV 04/2009)

PROJECT TITLE: Inez Elementary School ZONE MAP: J-19/D067
DRB#: _____ EPC#: _____ WORK ORDER#: 596582

LEGAL DESCRIPTION: Inez Elementary School
CITY ADDRESS: 1700 Pennsylvania Street NE, ABQ, NM

ENGINEERING FIRM: Scott M McGee PE CONTACT: Scott McGee
ADDRESS: 9700 Tanoan Drive NE PHONE: 263-2905
CITY, STATE: ABQ, NM ZIP CODE: 87111

OWNER: A P S CONTACT: David Ritchey
ADDRESS: 1700 Pennsylvania Street NE PHONE: 848-8810
CITY, STATE: ABQ, NM ZIP CODE: 87114

ARCHITECT: NCA CONTACT: Tom Wilber
ADDRESS: 1306 Rio Grande Blvd NW PHONE: 255-6400
CITY, STATE: ABQ, NM ZIP CODE: 85014

SURVEYOR: High Mesa CONTACT: Chuck Cala
ADDRESS: 6010-B Midway Park NE PHONE: 345-4250
CITY, STATE: ABQ, NM ZIP CODE: 87109

CONTRACTOR: TA Cole & Sons CONTACT: Skip Cole
ADDRESS: 10143 4th Street PHONE: 505.898.8698
CITY, STATE: Albuquerque, NM ZIP CODE: 87114

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) _____

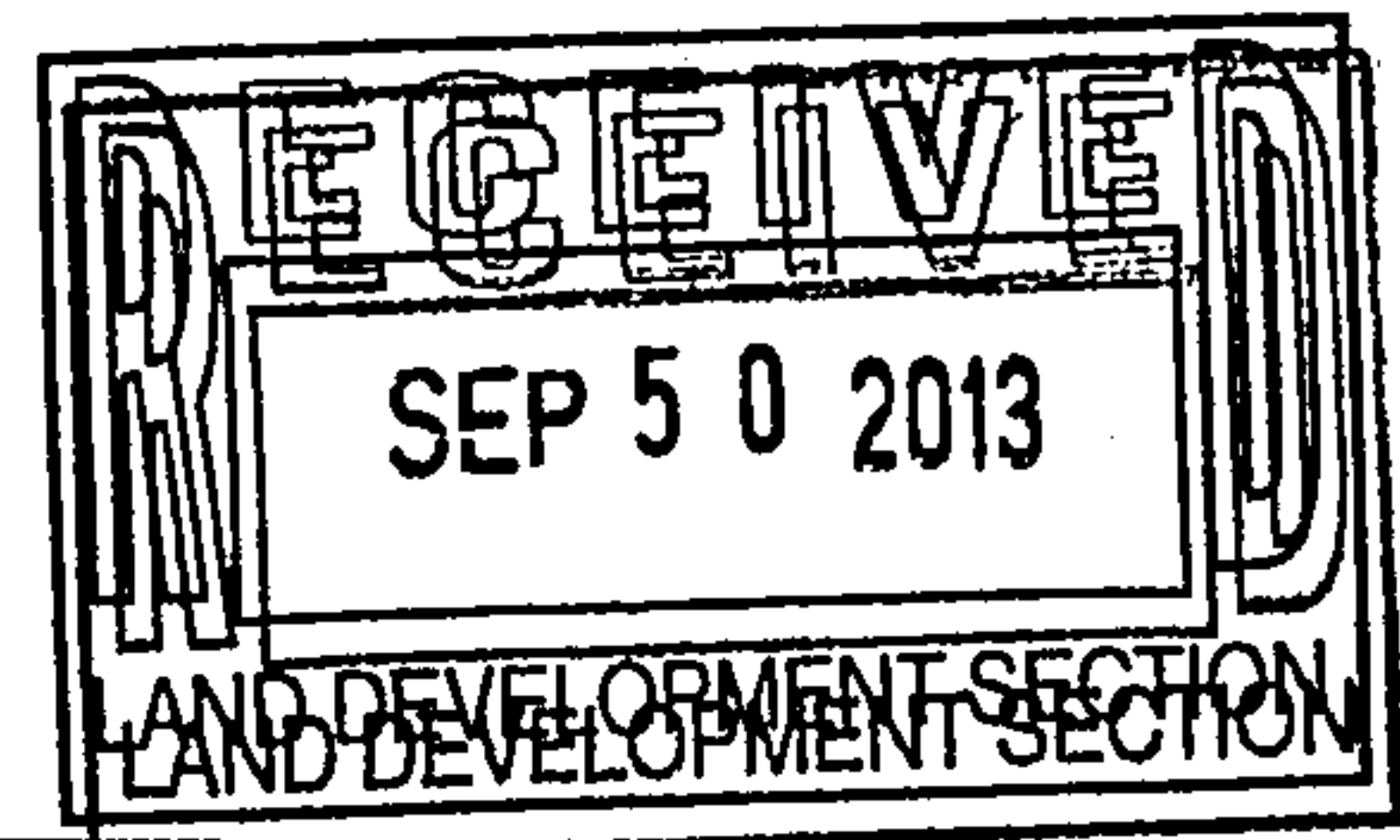
CHECK TYPE OF APPROVAL SOUGHT:

☐ 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
☐ GRADING CERTIFICATION
☐ OTHER (SPECIFY) _____

WAS A PRE-DESIGN CONFERENCE ATTENDED:

☐ YES
☒ NO
☐ COPY PROVIDED

DATE SUBMITTED: 8.22.13 BY: RMC



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.

DRAINAGE AND TRANSPORTATION INFORMATION SHEET
(REV 04/2009)

PROJECT TITLE: Inez Elementary School ZONE MAP: J-19/D067
DRB#: _____ EPC#: _____ WORK ORDER#: 596582

LEGAL DESCRIPTION: Inez Elementary School
CITY ADDRESS: 1700 Pennsylvania Street NE, ABQ, NM

ENGINEERING FIRM: Scott M McGee PE CONTACT: Scott McGee
ADDRESS: 9700 Tanoan Drive NE PHONE: 263-2905
CITY, STATE: ABQ, NM ZIP CODE: 87111

OWNER: A P S CONTACT: David Ritchey
ADDRESS: 1700 Pennsylvania Street NE PHONE: 848-8810
CITY, STATE: ABQ, NM ZIP CODE: 87114

ARCHITECT: NCA CONTACT: Tom Wilber
ADDRESS: 1306 Rio Grande Blvd NW PHONE: 255-6400
CITY, STATE: ABQ, NM ZIP CODE: 85014

SURVEYOR: High Mesa CONTACT: Chuck Cala
ADDRESS: 6010-B Midway Park NE PHONE: 345-4250
CITY, STATE: ABQ, NM ZIP CODE: 87109

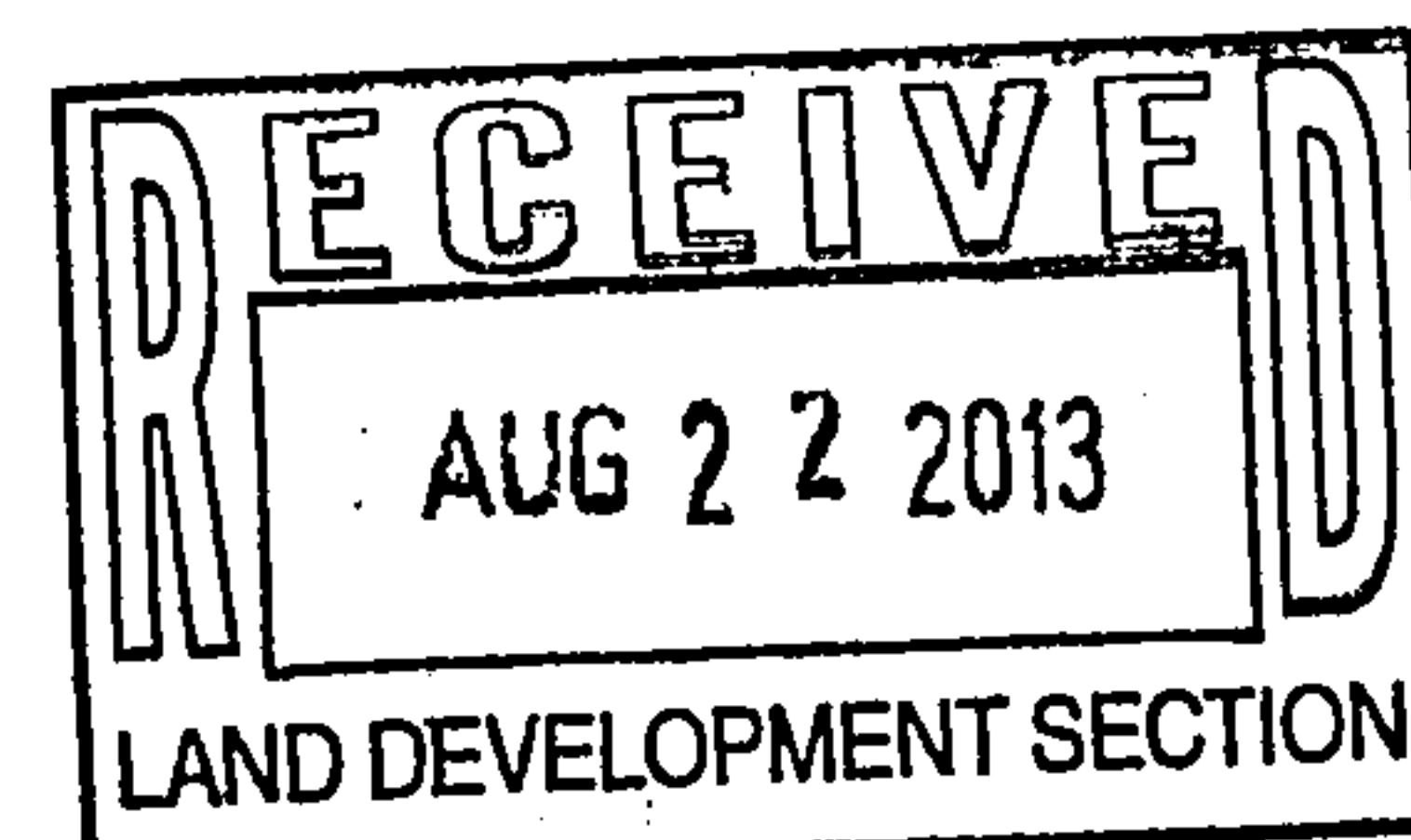
CONTRACTOR: TA Cole & Sons CONTACT: Skip Cole
ADDRESS: 10143 4th Street PHONE: 505.898.8698
CITY, STATE: Albuquerque, NM ZIP CODE: 87114

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
XX ____ 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
XX ____ CERTIFICATE OF OCCUPANCY (PERM)
____ CERTIFICATE OF OCCUPANCY (TEMP)
____ GRADING PERMIT APPROVAL
____ PAVING PERMIT APPROVAL
____ WORK ORDER APPROVAL
____ GRADING CERTIFICATION
____ OTHER (SPECIFY)

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

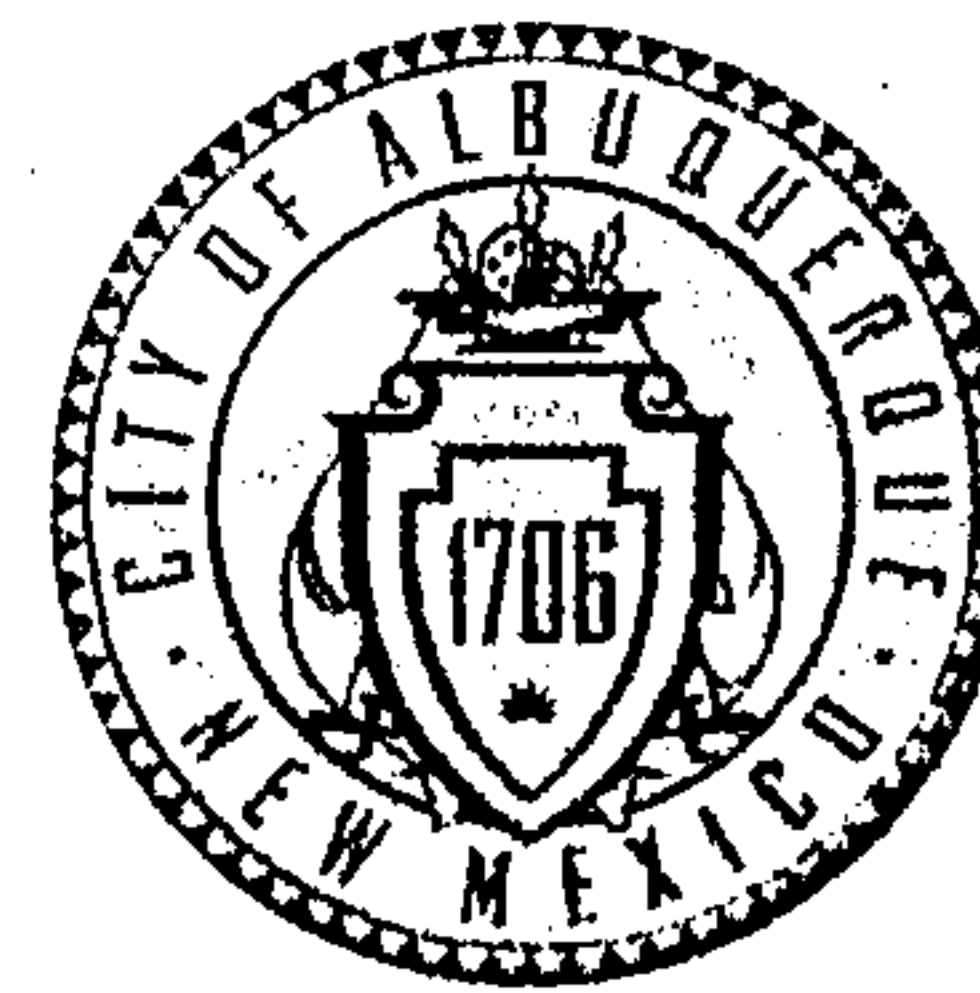
DATE SUBMITTED: 8.22.13 BY: RMC



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CITY OF ALBUQUERQUE



August 23, 2013

Robert Calvani, Registered Architect
NCA Architect, Planners
1306 Rio Grande Blvd. NW
Albuquerque, NM 87104

Re: **Inez Elementary School,**
1700 Pennsylvania NE
Certificate of Occupancy – Transportation Development
Engineer's Stamp dated 08-22-13 (J19-D067)
Certification dated 08-22-13

Dear Mr. Calvani,

The Letter of Certification submitted on 08-22-13 is not sufficient for acceptance by this office for Permanent Certificate of Occupancy (C.O.). The following items need to be addressed and completed:

PO Box 1293

Albuquerque

- Wheel ramp concrete work needs to be completed adjacent to Mini Gym building.
- Directional and Stop sign height needs to be adjusted to seven from bottom of sign to ground/sidewalk surface elevation. All private signage needs to be located within private property (verify).
- Van Accessible sign/plate needs to be relocated to the van accessible stall/space location.

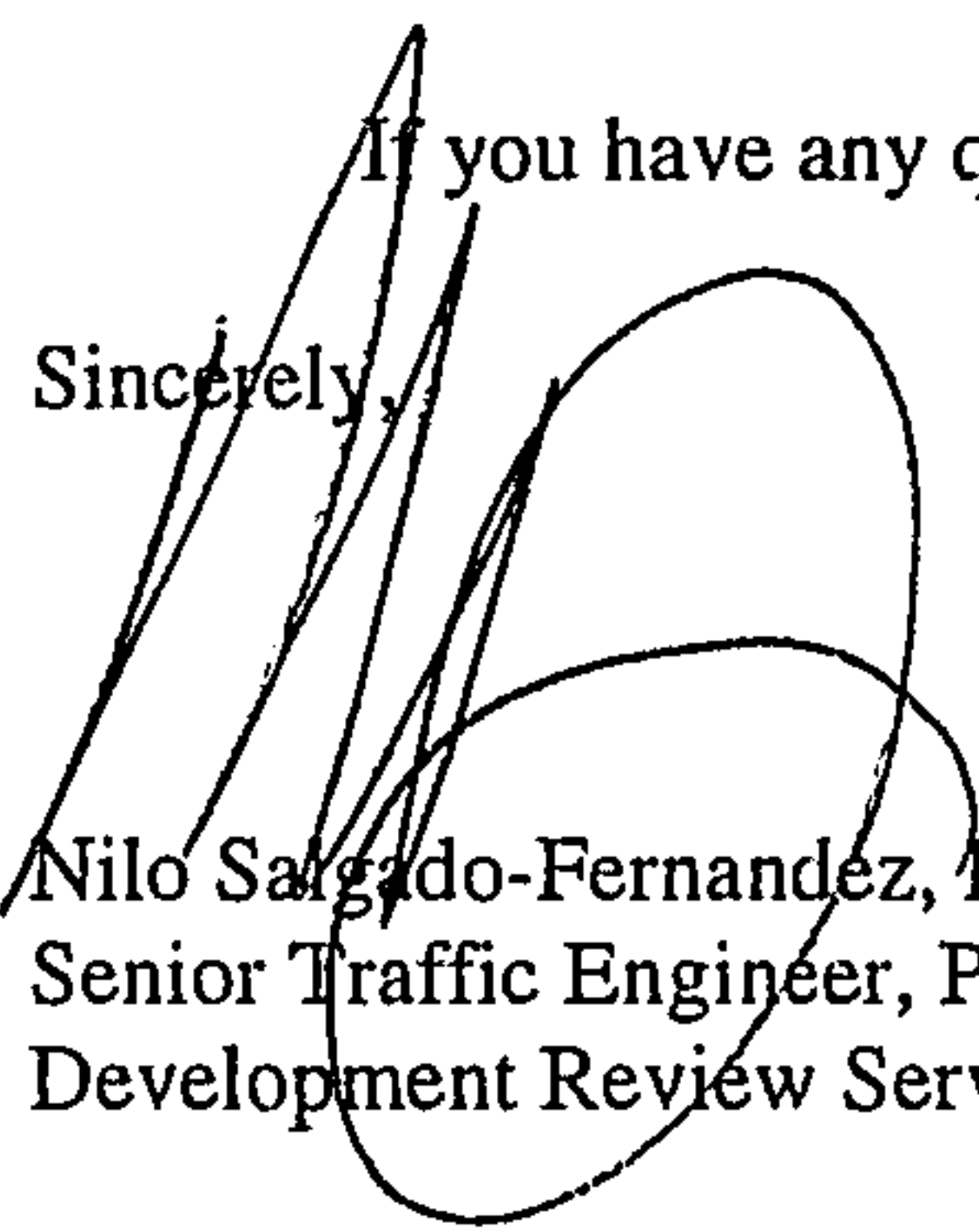
New Mexico 87103

The issuance of a **30-day Temporary Certificate of Occupancy** has been provided until the above item has been addressed. This letter serves as a "green tag" from Transportation Development for a **30-day Temporary Certificate of Occupancy** to be issued by the Building and Safety Division.

www.cabq.gov

If you have any questions, you can contact me at 924-3630.

Sincerely,


Nilo Salgado-Fernandez, P.E.
Senior Traffic Engineer, Planning Dept.
Development Review Services

C: Engineer
CO Clerk
File

Robert M. Calvani

John C. Layman

Thomas C. Wilber

Nilo E. Salgado-Fernandez

Reference: APS-Inez Elementary School Cafeteria

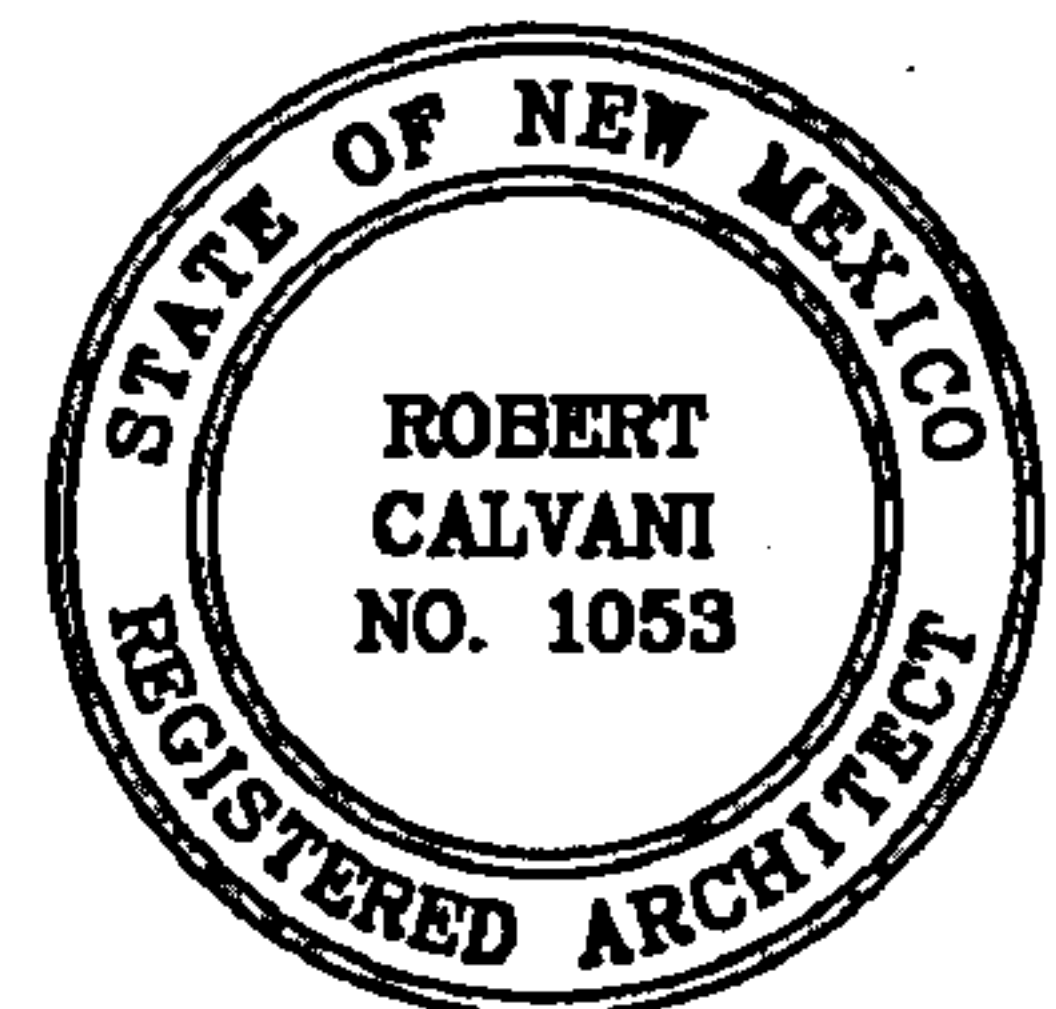
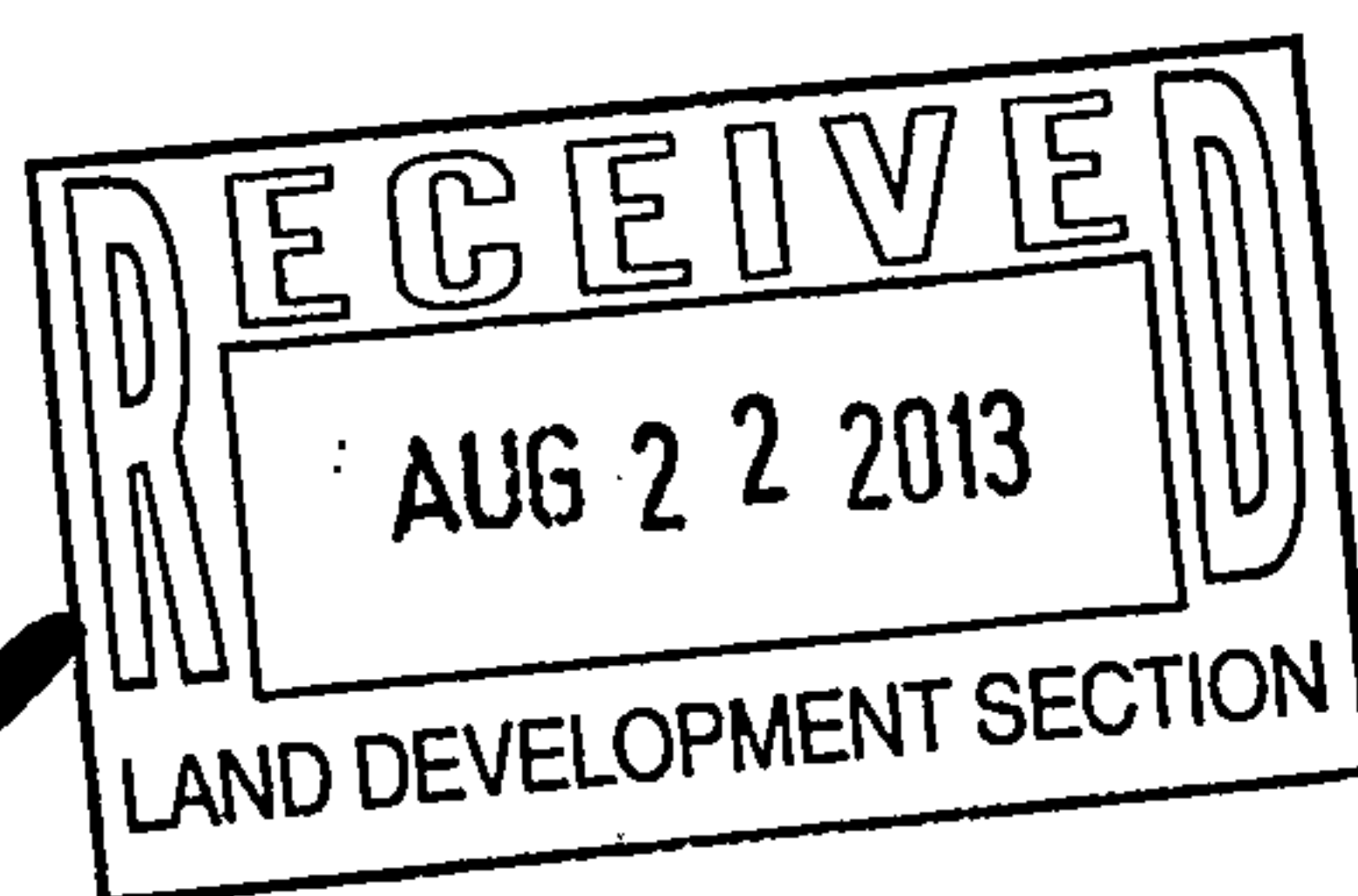
08.22.13

TRAFFIC CERTIFICATION

I, Robert Calvani, NMPE OR NMRA, 1053 OF THE FIRM NCA Architects, HEREBY CERTIFY THAT THIS PROJECT IS IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 9.21.11. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY Chuck Cala OF THE FIRM High Mesa. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 08.16.2013 AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA PROVIDED IS REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR Certificate of Occupancy.

No Exceptions

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE TRAFFIC ASPECTS OF THIS PROJECT. THOSE RELYING ON THE RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.



[Handwritten Signature]

ENGINEER'S OR ARCHITECT'S STAMP

Signature of Engineer or Architect

8.22.13

Date



CITY OF ALBUQUERQUE



August 22, 2013

Scott M. McGee, P.E.
9700 Tanoan Dr NE
Albuquerque, NM 87111

**Re: Inez Elementary School Cafeteria, Fine Arts/Classroom and Renovations
1700 Pennsylvania Street NE
Request for Permanent C.O. - Accepted
Engineer's Stamp Date 8/09/2012 (J19D067)
Certification Date 8-20-2013**

Dear Mr. McGee,

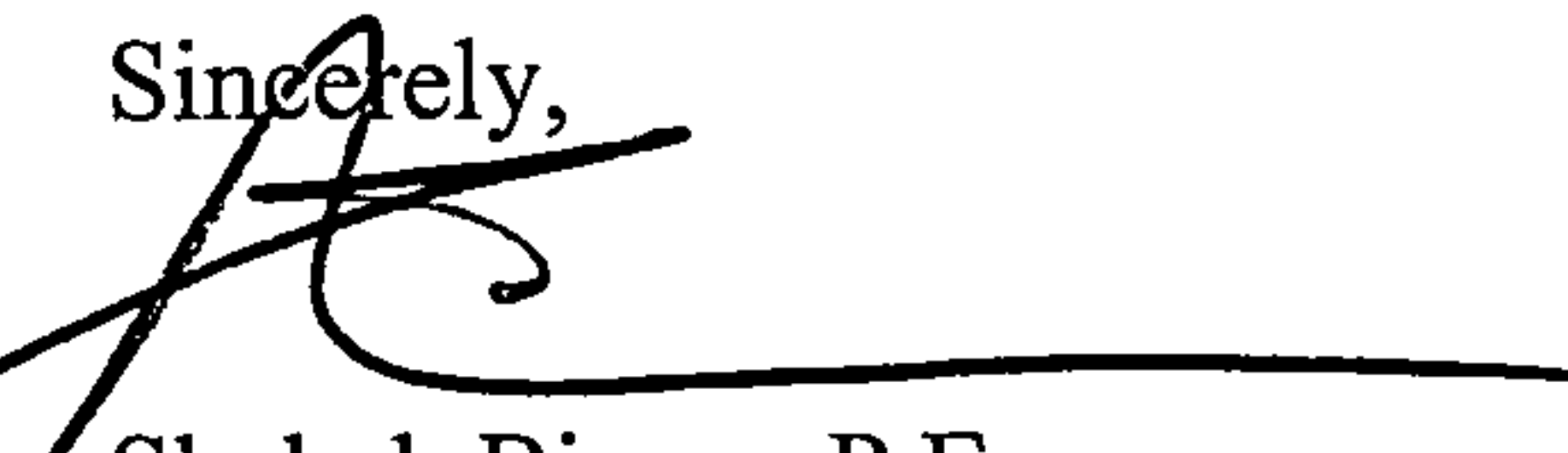
Based upon the information provided in the Certification received 8-21-13, the above referenced Certification is acceptable for a release of a Permanent Certificate of Occupancy by Hydrology.

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

Albuquerque

Sincerely,

New Mexico 87103


Shahab Biazar, P.E.
Senior Engineer, Hydrology
Development and Review Services

www.cabq.gov

C: CO Clerk—Katrina Sigala
Francis Connor
e-mail

DRAINAGE AND TRANSPORTATION INFORMATION SHEET
(REV 04/2009)

PROJECT TITLE: Inez Elementary School ZONE MAP: J-19/D067
DRB#: _____ EPC#: _____ WORK ORDER#: 596582

LEGAL DESCRIPTION: Inez Elementary School
CITY ADDRESS: 1700 Pennsylvania Street NE, ABQ, NM

ENGINEERING FIRM: Scott M McGee PE CONTACT: Scott McGee
ADDRESS: 9700 Tanoan Drive NE PHONE: 263-2905
CITY, STATE: ABQ, NM ZIP CODE: 87111

OWNER: A P S CONTACT: Myron Johnson
ADDRESS: 1700 Pennsylvania Street NE PHONE: 848-8817
CITY, STATE: ABQ, NM ZIP CODE: 87114

ARCHITECT: NCA CONTACT: Tom Wilber
ADDRESS: 1306 Rio Grande Blvd NW PHONE: 255-6400
CITY, STATE: ABQ, NM ZIP CODE: 85014

SURVEYOR: High Mesa CONTACT: Chuck Cala
ADDRESS: 6010-B Midway Park NE PHONE: 345-4250
CITY, STATE: ABQ, NM ZIP CODE: 87109

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
XX ____ ENGINEER'S CERT (HYDROLOGY)
____ CLOMR/LOMR
____ TRAFFIC CIRCULATION LAYOUT
____ ENGINEER'S CERT (TCL)
____ ENGINEER'S CERT (DRB SITE PLAN)
____ OTHER (SPECIFY) _____

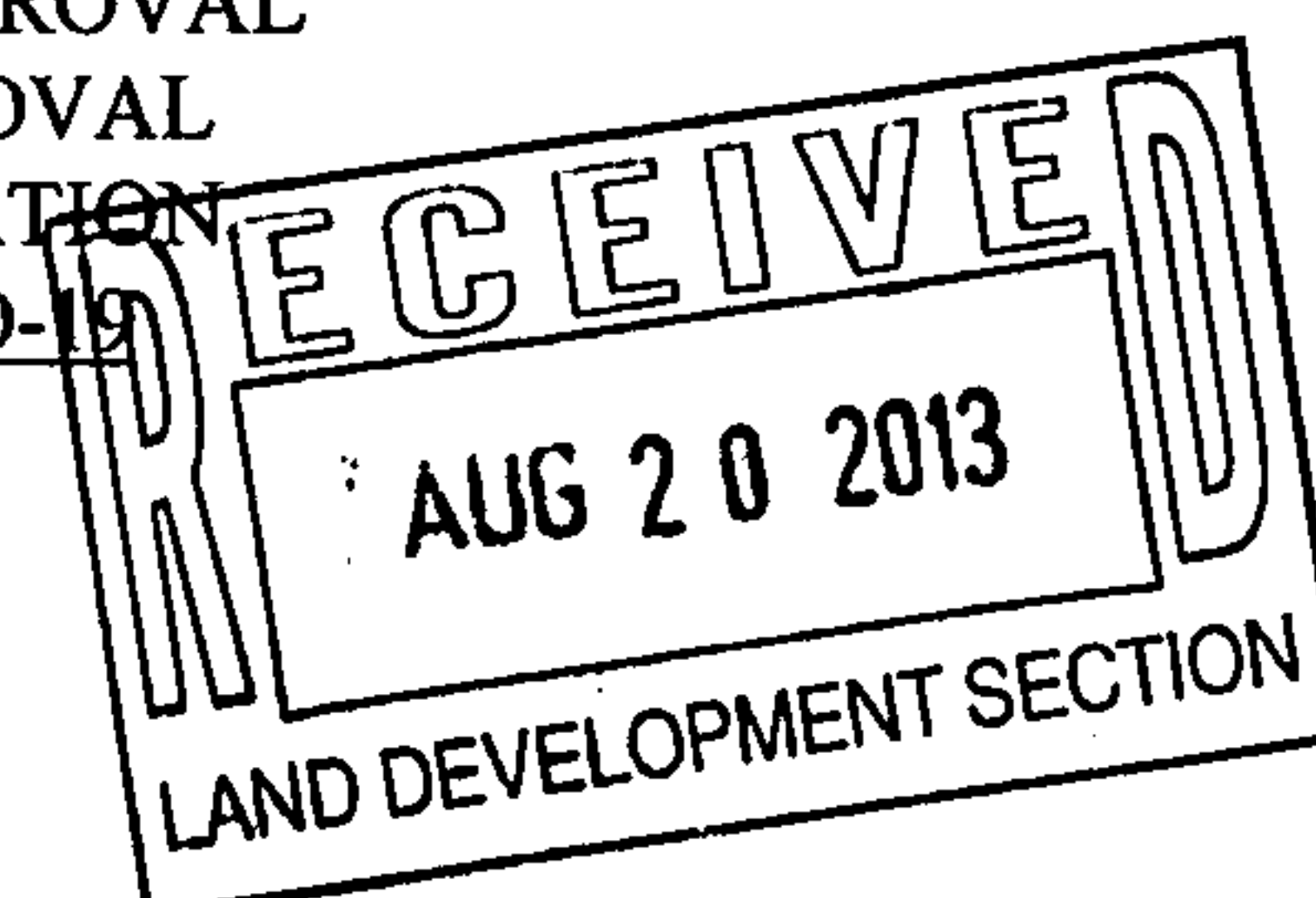
CHECK TYPE OF APPROVAL SOUGHT:
____ SIA/FINANCIAL GUARANTEE RELEASE
____ PRELIMINARY PLAT APPROVAL
____ S. DEV. PLAN FOR SUB'D APPROVAL
____ S. DEV. FOR BLDG. PERMIT APPROVAL
____ SECTOR PLAN APPROVAL
____ FINAL PLAT APPROVAL
____ FOUNDATION PERMIT APPROVAL
____ BUILDING PERMIT APPROVAL
XX ____ CERTIFICATE OF OCCUPANCY (PERM)
____ CERTIFICATE OF OCCUPANCY (TEMP)
____ GRADING PERMIT APPROVAL
____ PAVING PERMIT APPROVAL
____ WORK ORDER APPROVAL
____ GRADING CERTIFICATION
____ OTHER (SPECIFY) SO-19

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

DATE SUBMITTED: 8/20/2013 BY: SMM

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.
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3. **Drainage Report:** Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more.



DRAINAGE AND TRANSPORTATION INFORMATION SHEET
(REV 04/2009)

PROJECT TITLE: Inez Elementary School ZONE MAP: J-19/D067
DRB#: _____ EPC#: _____ WORK ORDER#: 596582

LEGAL DESCRIPTION: Inez Elementary School
CITY ADDRESS: 1700 Pennsylvania Street NE, ABQ, NM

ENGINEERING FIRM: Scott M McGee PE CONTACT: Scott McGee
ADDRESS: 9700 Tanoan Drive NE PHONE: 263-2905
CITY, STATE: ABQ, NM ZIP CODE: 87111

OWNER: A P S CONTACT: Myron Johnson
ADDRESS: 1700 Pennsylvania Street NE PHONE: 848-8817
CITY, STATE: ABQ, NM ZIP CODE: 87114

ARCHITECT: NCA CONTACT: Tom Wilber
ADDRESS: 1306 Rio Grande Blvd NW PHONE: 255-6400
CITY, STATE: ABQ, NM ZIP CODE: 85014

SURVEYOR: High Mesa CONTACT: Chuck Cala
ADDRESS: 6010-B Midway Park NE PHONE: 345-4250
CITY, STATE: ABQ, NM ZIP CODE: 87109

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

TYPE OF SUBMITTAL:
____ DRAINAGE REPORT
____ DRAINAGE PLAN 1st SUBMITTAL
____ DRAINAGE PLAN RESUBMITTAL
____ CONCEPTUAL G & D PLAN
XX 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) _____

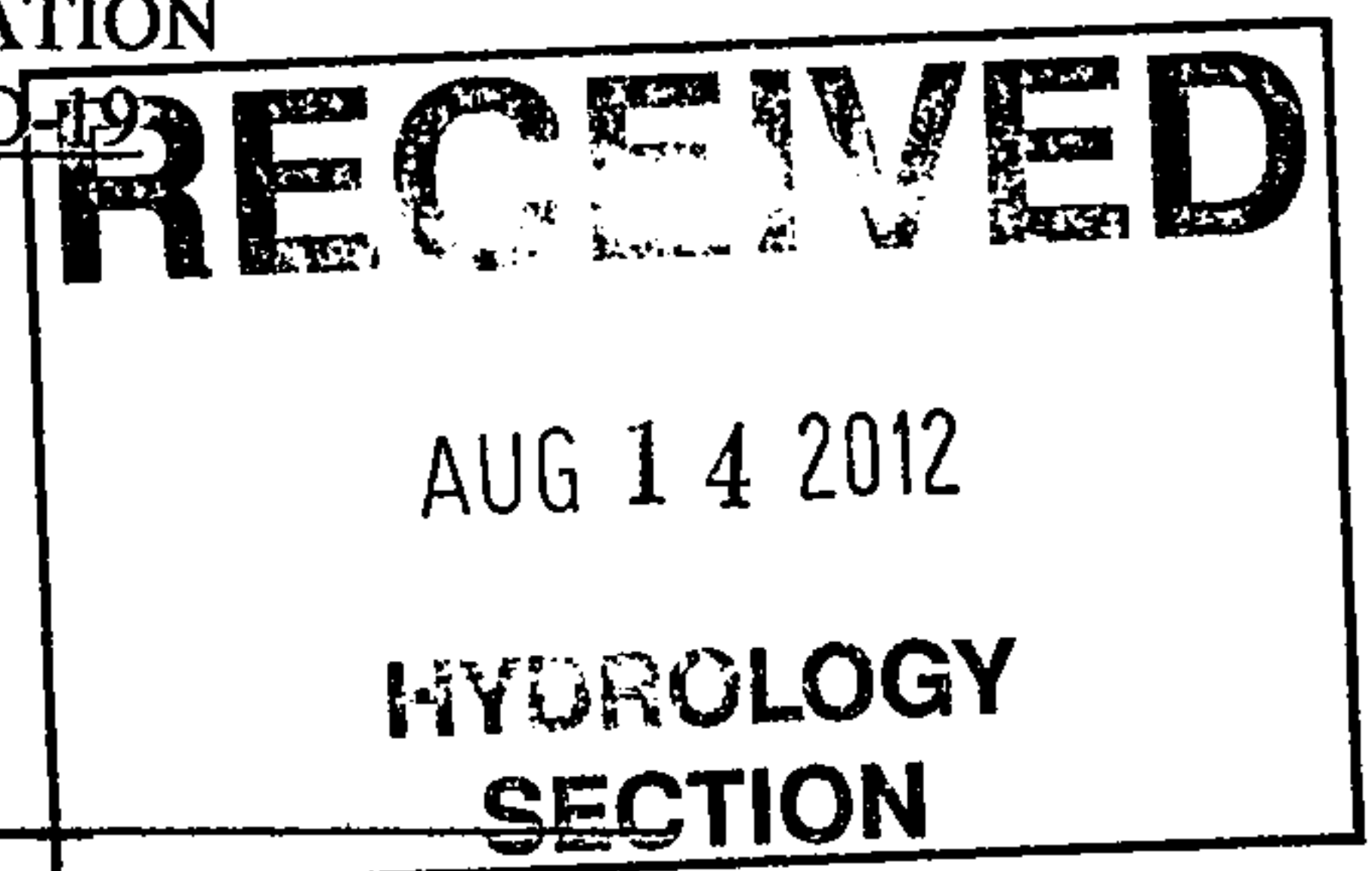
CHECK TYPE OF APPROVAL SOUGHT:
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____ S. DEV. FOR BLDG. PERMIT APPROVAL
____ SECTOR PLAN APPROVAL
____ FINAL PLAT APPROVAL
____ FOUNDATION PERMIT APPROVAL
XX BUILDING PERMIT APPROVAL
____ CERTIFICATE OF OCCUPANCY (PERM)
____ CERTIFICATE OF OCCUPANCY (TEMP)
____ GRADING PERMIT APPROVAL
____ PAVING PERMIT APPROVAL
____ WORK ORDER APPROVAL
____ GRADING CERTIFICATION
XX OTHER (SPECIFY) SO-19

WAS A PRE-DESIGN CONFERENCE ATTENDED:

____ YES
____ NO
____ COPY PROVIDED

RESUBMITTAL

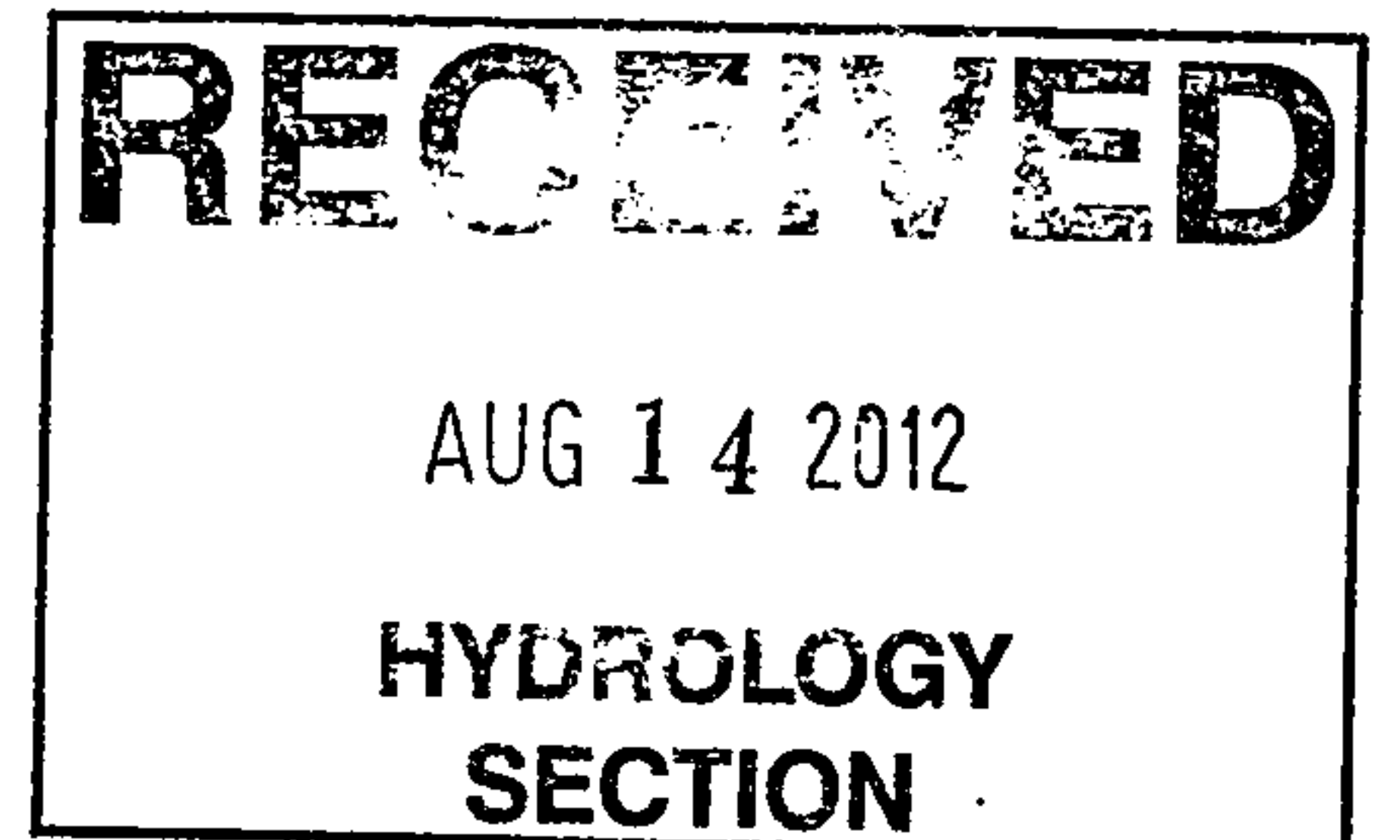
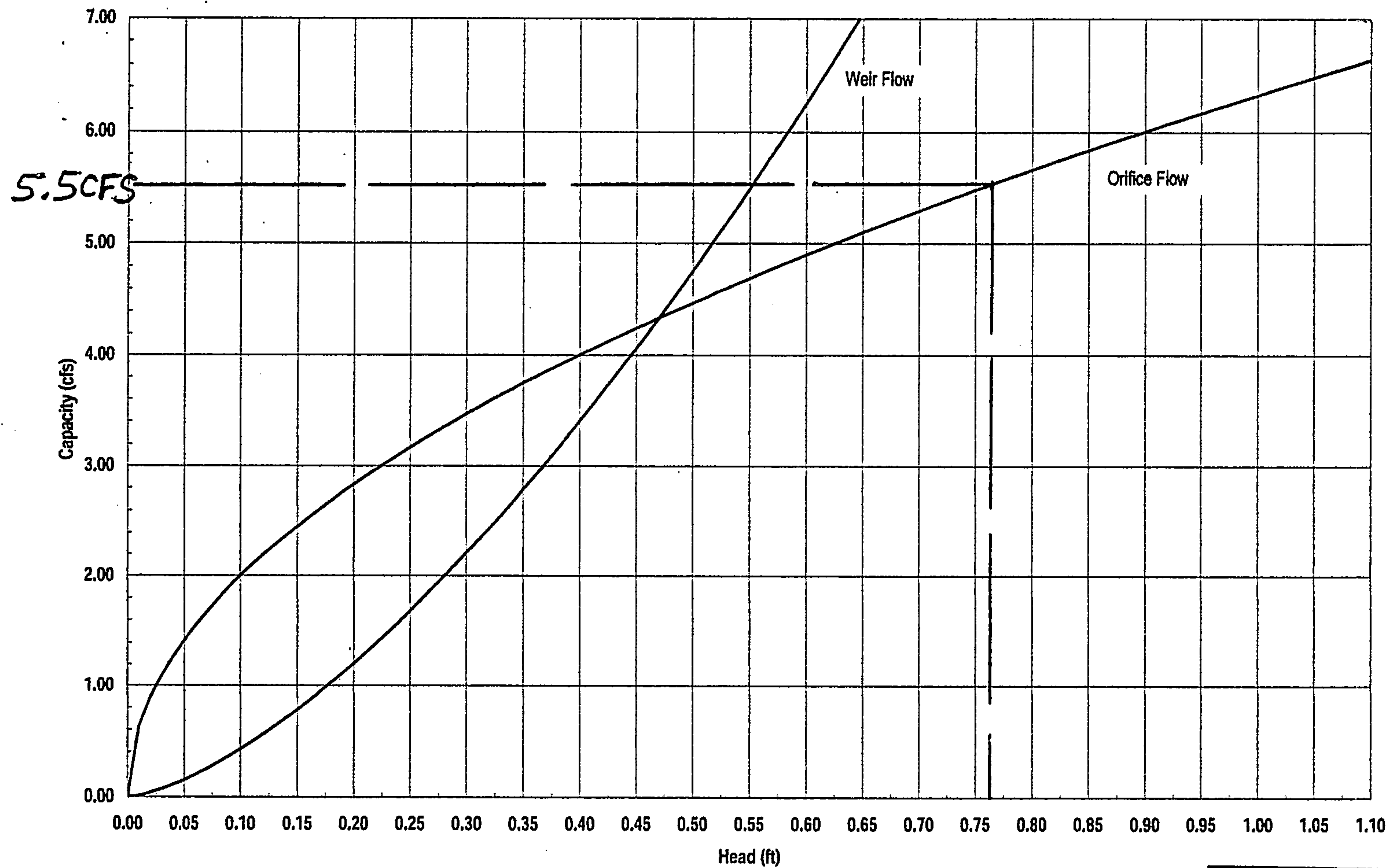
DATE SUBMITTED: 8/14/2012 BY: SMM



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:

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Nyloplast 18" Dome Grate Inlet Capacity Chart



3130 Verona Avenue • Buford, Georgia 30518 • (866) 888-8479 / (770) 932-2443 • Fax: (770) 932-2490
Nyloplast Grate Inlet Capacity Charts • March 20010

CITY OF ALBUQUERQUE



August 14, 2012

Scott M. McGee, P.E.
9700 Tanoan Dr NE
Albuquerque, NM 87111

**Re: Inez Elementary School Cafeteria, Fine Arts/Classroom and Renovations
Grading and Drainage Plan
Engineer's Stamp Date 8/09/2012 (J19D067)**

Dear Mr. McGee,

Based upon the information provided in your submittal received 08-14-2012, the above referenced plan is approved for Building Permit and SO-19 Permit.

A separate SO-19 permit is required for construction within City ROW. A copy of this approval letter must be on hand when applying for the excavation/barricading permit. The work in the City ROW must be inspected and accepted. Contractor must contact Jason Rodriguez at 235-8016 and Construction Coordination at 924-3416 to schedule an inspection.

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

Albuquerque's MS4 Permit became effective March 1st, 2012. Grading and Drainage Plans and Drainage Reports will have to comply with the requirements of the new permit (<http://www.cabq.gov/planning/landcoord/Hydrology.html>).

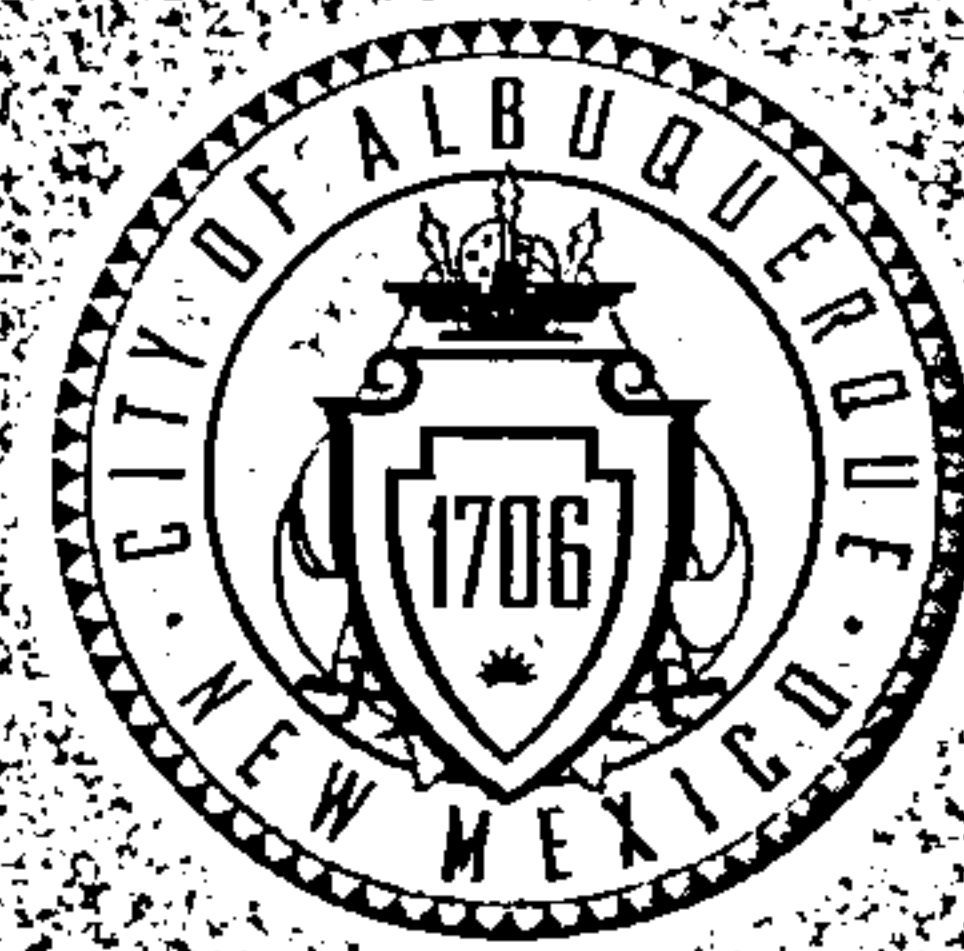
If you have any questions, you can contact me at 924-3695.

Sincerely,

Shahab Biazar, P.E.
Senior Engineer, Planning Dept.
Development and Building Services

C: e-mail

CITY OF ALBUQUERQUE



September 21, 2011

Robert Calvani, R.A.
NCA Architects
1306 Rio Grande Blvd. NW
Albuquerque, NM 87104

Re: Inez Elementary School Classroom Renovations/Parking Lot Modifications,
1700 Pennsylvania Street NE, Traffic Circulation Layout
Architect's Stamp dated 09-08-11 (J19-D067)

Dear Mr. Calvani,

The TCL submittal received 09-08-11 is approved for Building Permit. The plan is stamped and signed as approved. A copy of this plan will be needed for each of the building permit plans. Please keep the original to be used for certification of the site for final C.O. for Transportation. **Public infrastructure or work done within City Right-of-Way shown on these plans is for information only and is not part of approval. A separate DRC and/or other appropriate permits are required to construct these items.**

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

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

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

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

Sincerely,

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

C: File

RECEIVED
SEP 8 2011
TOXICOLOGY
SECTION

CITY OF ALBUQUERQUE
PLANNING DEPARTMENT
DEVELOPMENT SERVICE / HYDROLOGY SECTION

DATE: 5-27-11
CONFERENCE RECAP

ZONE ATLAS PAGE NO: J 19
DRAINAGE FILE: J19/0067
ZONING: _____
DRB: _____
SUBJECT: Inez elem school improvements
STREET ADDRESS (IF KNOWN): _____
SUBDIVISION NAME: _____

APPROVAL REQUESTED: BUILDING PERMIT & SO #19

ATTENDANCE: Jeff Mortensen Curtis Cherne

FINDINGS:

- update Master Drainage Plan
- if have to relocate curb inlet in Pennsylvania
for new drive entrance, wo is req'd
- Drain SW basin by pipe to back of inlet
in McKnight. (SO #19)
- Site has free discharge

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

SIGNED: Curtis A. Cherne
NAME (PRINT): Curtis A. Cherne

SIGNED: Jeff Mortensen
NAME (PRINT): Jeffrey G. Mortensen

****NOTE**** PLEASE PROVIDE A COPY OF THIS RECAP WITH YOUR DRAINAGE SUBMITTAL.

Inez ES

ZONE ATLAS PAGE:

J-19

HYDROLOGY FILE #

J-19/D067

MASTER DRAINAGE PLAN:

YES

* 95.109.4

MDP ENGINEER OF RECORD:

HMCG

MDP DATE:

1997

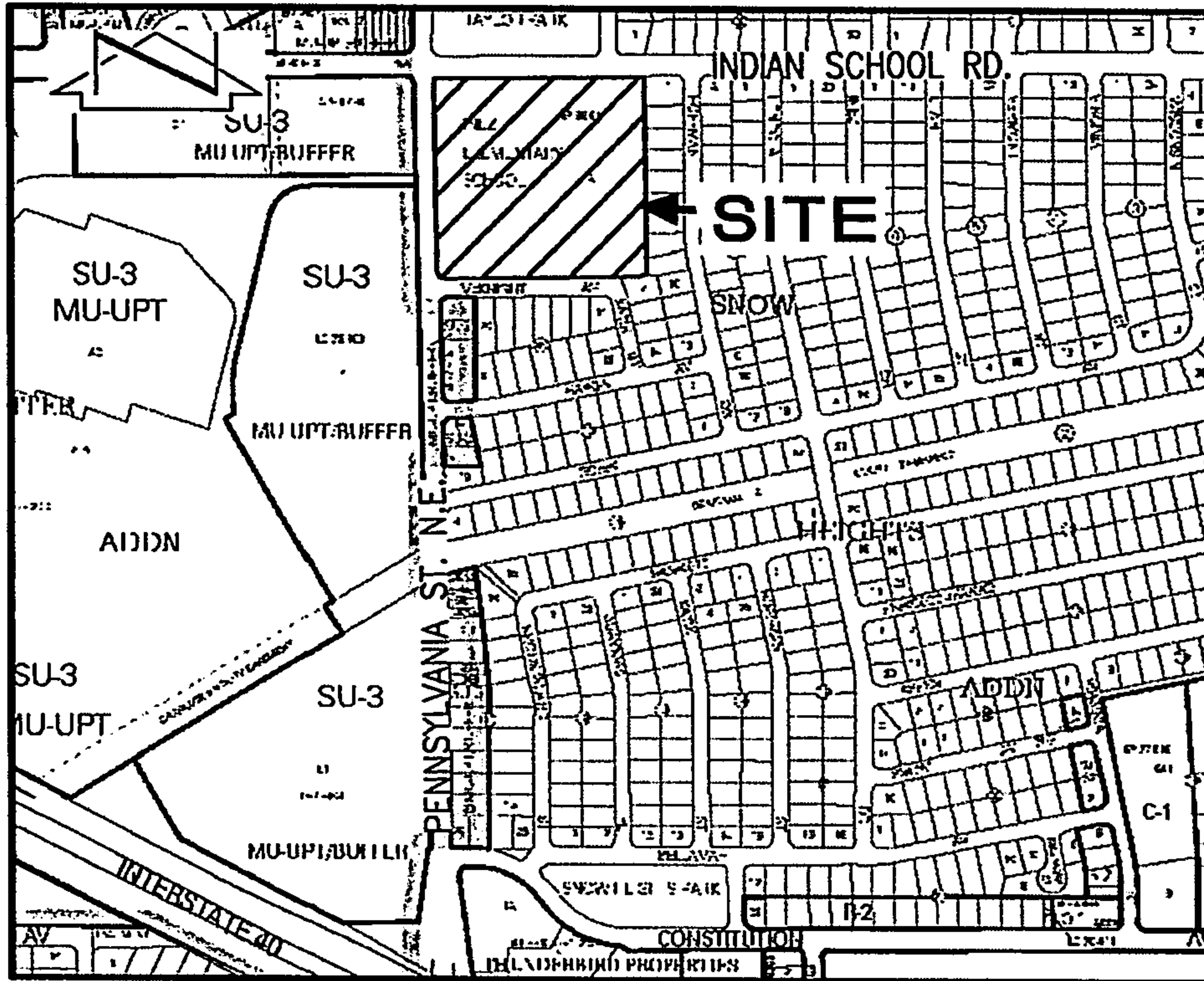
SUPPORTING PLANS:

* COURTYARD & PRIVATE SD (HMCG/95.109.5)

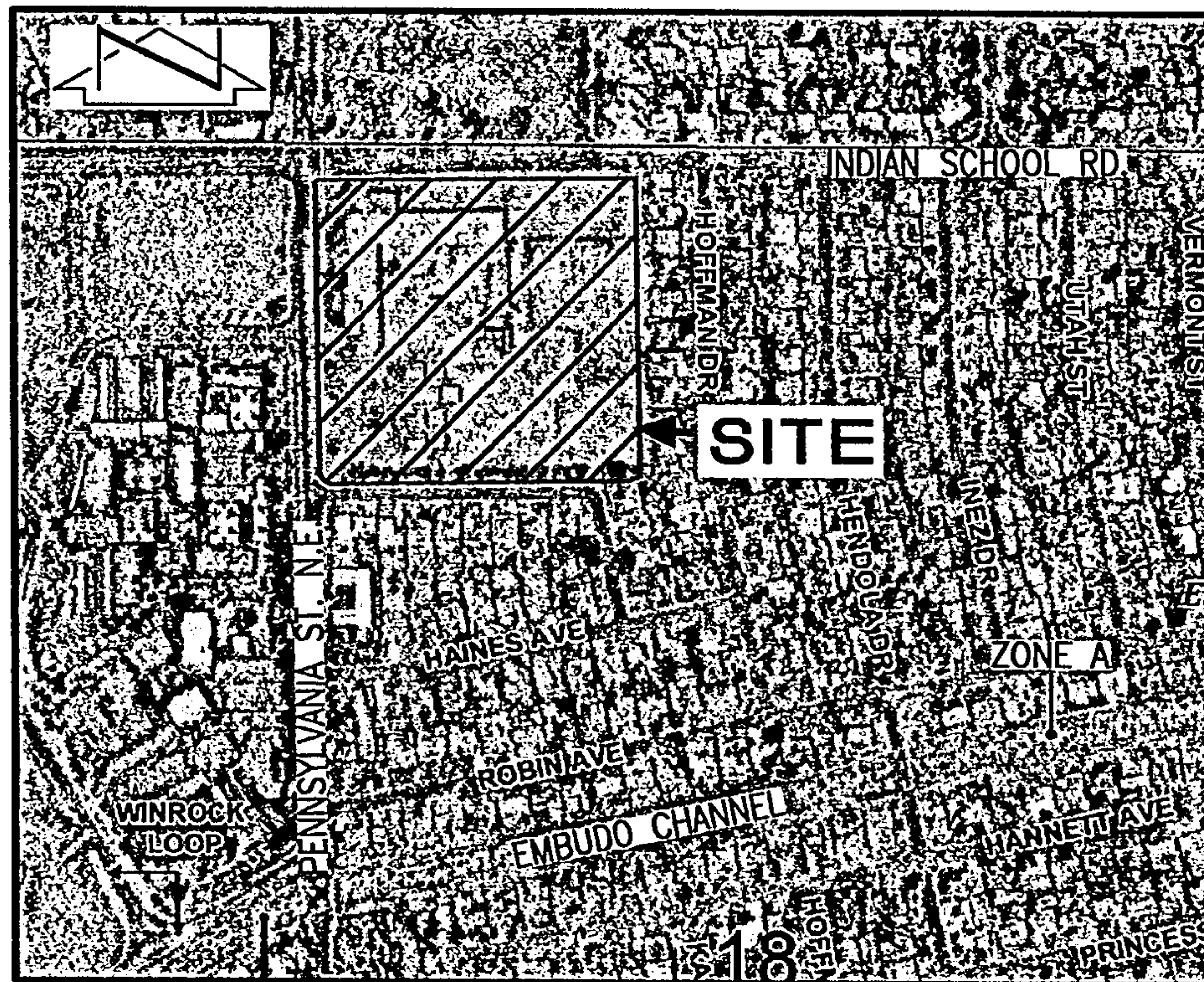
2001

* KINDERGARTEN ADD'N (HMCG/2003.087.4)

2004



B1 VICINITY MAP J-19
SCALE: 1" = 750'



A1 F.I.R.M. PANEL 356 OF 825
SCALE: 1" = 500'

File Path: E:\DWG\2008.180.1\DWG
File Name: 81801.DWG
Plot Date: 07-13-2009
Plot Time: 12:44 pm

INEZ ELEMENTARY SCHOOL
1700 PENNSYLVANIA ST. N.E.
ALBUQUERQUE, NM 87110

JOB NO. 2008.180.1
DATE: 07/08/09

INEZ ELEMENTARY SCHOOL

DATE OF ASSESSMENT: 08-05-2009

PARTICIPANTS: Jeffrey G. Mortensen, P.E., High Mesa Consulting Group

DRAINAGE SUMMARY

This site is located within the jurisdiction of City of Albuquerque.

This site does not lie within a FEMA designated Flood Hazard Zone, but does drain to a Zone A that coincides with the Embudo Channel where the 100-year flood is contained within the constructed channel.

This site is allowed free discharge to Pennsylvania Street NE and Indian School Road NE based upon proximity to the Embudo Channel.

This site is controlled by a City approved Comprehensive Drainage Plan (File # J19/D067).

OBSERVATIONS AND DEFICIENCIES

The following Observations and Deficiencies were noted based upon Visual Site Inspection and/or Research:

1. West Parking Lot – bare soil playground areas east of parking lot eroding onto paving.
2. Courtyard – unfinished courtyard improvements prone to erosion and uncontrolled storm water management
3. Property Status – property is leased from University of New Mexico. Private parking and other improvements appear to encroach upon Indian School Road NE right-of-way.

RECOMMENDATIONS

The following Recommendations in response to the Observations and Deficiencies are presented in the same order of appearance as above:

1. West Parking Lot -
 - Construct curb and gutter at existing edge of chain link fence at east edge of parking lot to block/trap upstream sediment
2. Courtyard -
 - Implement original Courtyard Plan, or modification thereof, to mitigate erosion and manage storm water
3. Encroachments –
 - investigate options to remove encroachments to avoid conflicts with the City of Albuquerque
 - enter into encroachment agreements with City of Albuquerque

OTHER RELATED REQUIREMENTS - N/A

ESTIMATES

The estimated costs of the Recommendations presented above are listed below in the same order of appearance:

1. West parking Lot	\$14,000.00
2. Courtyard	\$85,000.00

.....

PRELIMINARY ENGINEER'S ESTIMATE: Inez Elementary School
Master Plan Study
 August 10, 2009
 HMCG Job # 2008.180.1

I. INTRODUCTION

Tabulated below are the estimated construction costs for the paving, erosion control, and drainage improvements for the Courtyard and Southwest Parking Lot areas of Inez Elementary School, based upon Schematic Master Plan Study by High Mesa Consulting Group. A summary of estimated construction costs is provided for each portion of work (with NMGRT and 25% Contingency both included), followed by a detailed cost breakdown of the construction items. Unit Prices are based upon available APS On-Call Unit Price Contracts information.

II. ESTIMATED CONSTRUCTION COSTS SUMMARY

A. Courtyard Drainage & Erosion Control Construction Costs:	\$83,556.00
B. Southwest Parking Lot Erosion Control Construction Costs:	\$12,744.25
TOTAL*:	<u>\$96,300.25</u>

* Includes 25% Contingency and NMGRT @ 6.875%

III. DETAILED COST BREAKDOWN

A. Courtyard Drainage & Erosion Control Improvements

BID LOT ITEM	DESCRIPTION	UNIT	EST. QUANTITY	UNIT PRICE	EST. AMOUNT
2.x1	Landscaping	SF	14270	\$1.50	\$21,405.00
8i	8" Concrete Header Curb / Containment Wall	LF	690	\$54.00	\$37,260.00
9b.5	12" PVC SD	LF	40	\$42.00	\$1,680.00
9c.5	18"x18" Storm Inlet	EA	1	\$2,200.00	\$2,200.00
Courtyard Drainage & Erosion Control Constr. Costs:				Subtotal	\$62,545.00
				Contingency (25%)	\$15,636.00
				Subtotal	\$78,181.00
				NMGRT @ 6.875%	\$5,375.00
				Subtotal	<u>\$83,556.00</u>

HMCG Job # 2008.180.1

August 10, 2009

Page 2

B. Southwest Parking Lot Erosion Control Improvements

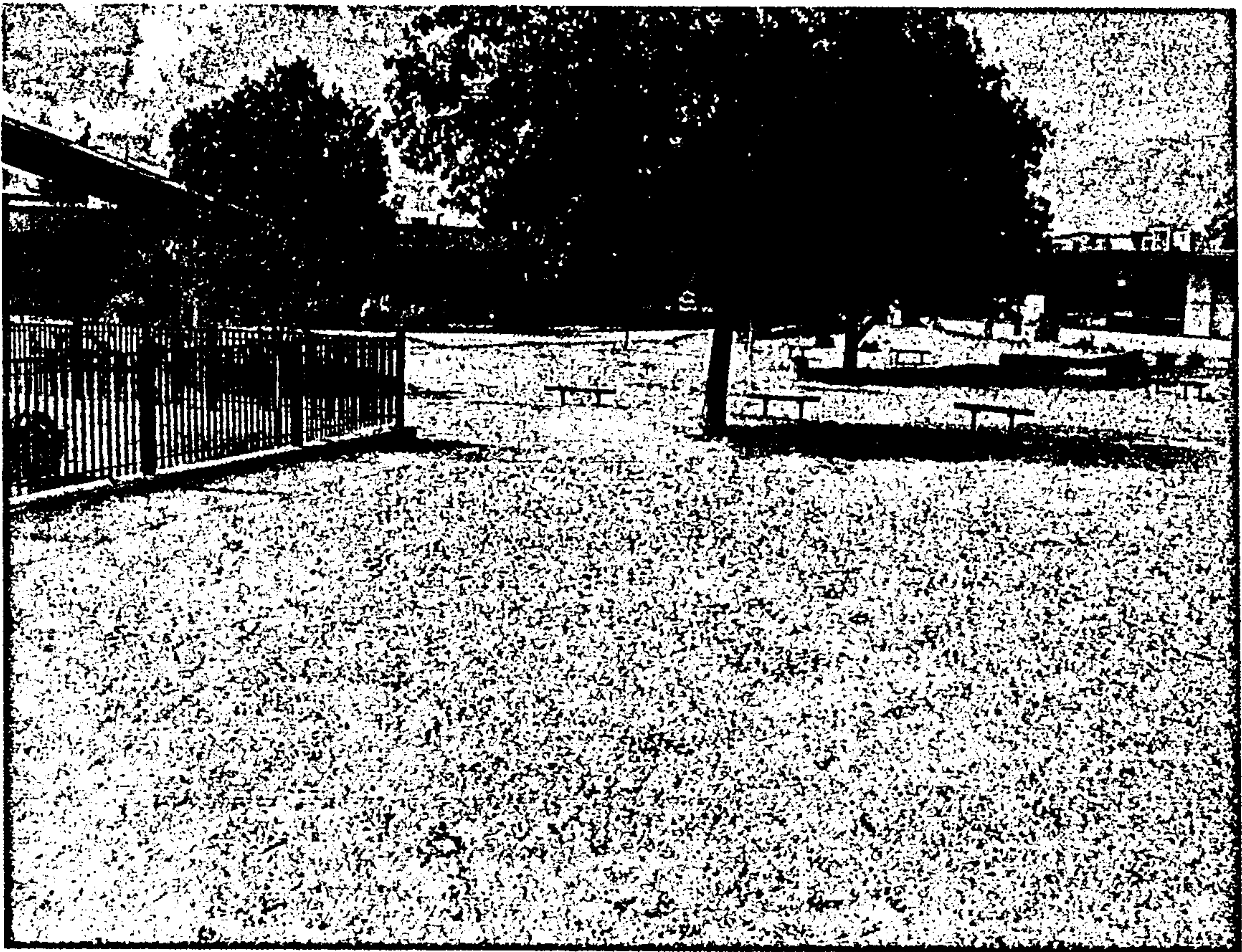
BID LOT			EST.	UNIT	EST.
ITEM	DESCRIPTION	UNIT	QUANTITY	PRICE	AMOUNT
1b	Remove and Dispose Exist Asphalt Paving	SY	35	\$3.25	\$113.75
1f	Sawcut Existing Asphalt Pavement	LF	165	\$3.50	\$577.50
4b.2a	3" Res Asphalt Paving w/ 12" Subgrade Prep (1 Lift)	SY	200	\$20.00	\$4,000.00
8f	6" Curb and Gutter	LF	240	\$20.20	\$4,848.00
SW Parking Lot Erosion Control Constr. Costs:				Subtotal	\$9,539.25
				Contingency (25%)	\$2,385.00
				Subtotal	\$11,924.25
				NMGRT @ 6.875%	\$820.00
				Subtotal	<u>\$12,744.25</u>



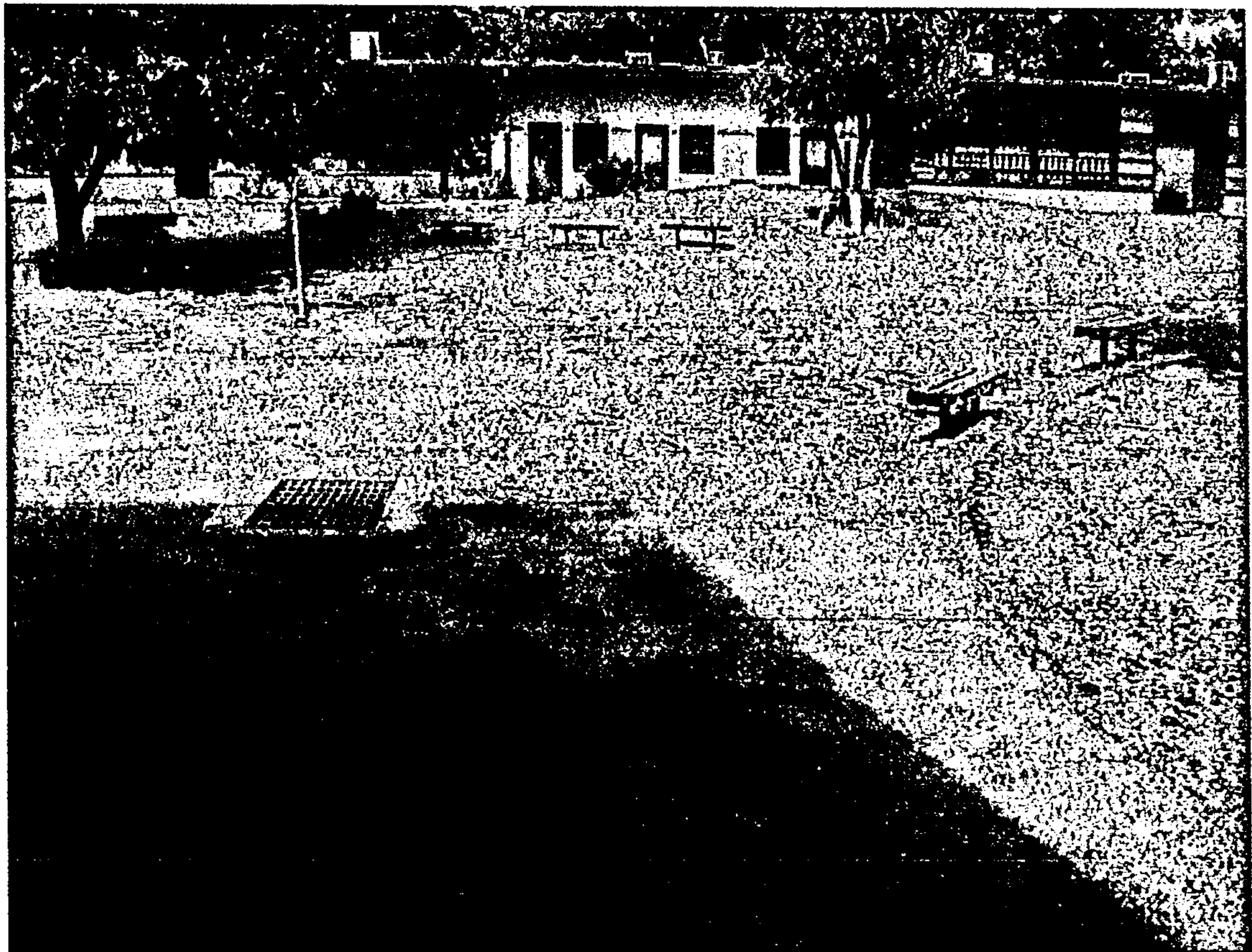
1. WEST PARKING LOT



1. WEST PARKING LOT

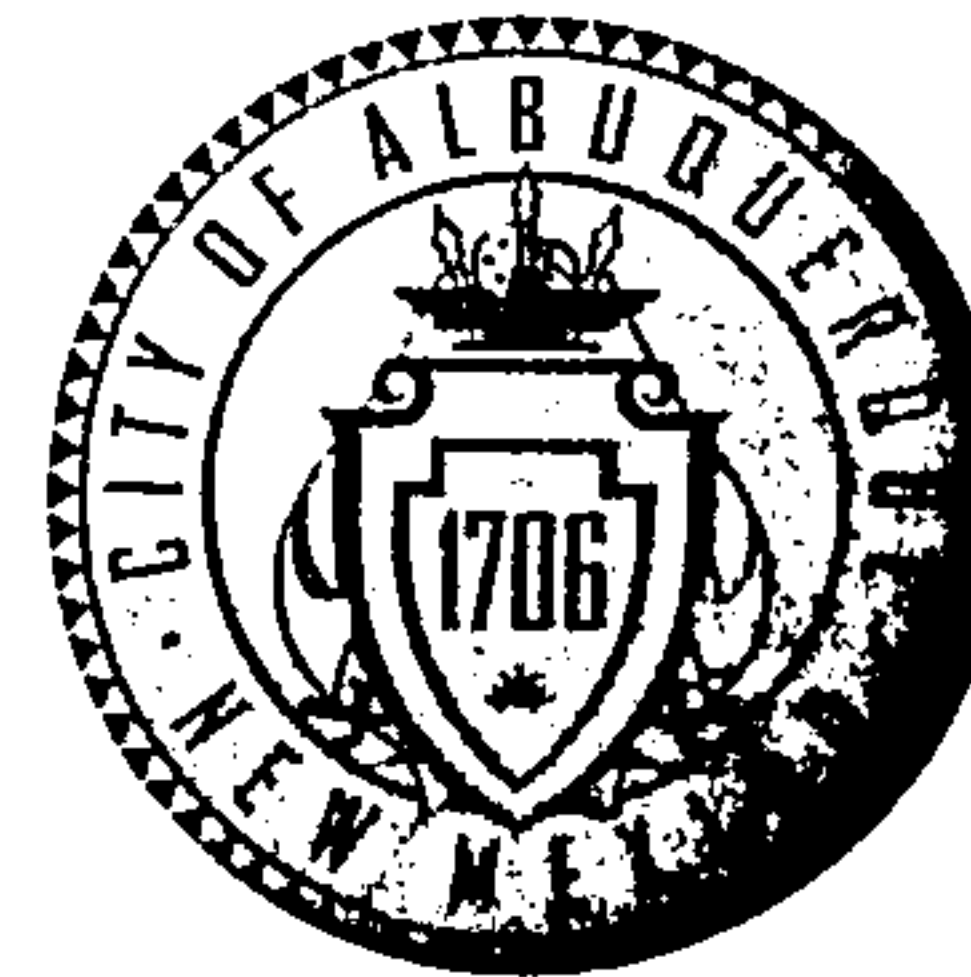


2. COURTYARD



2. COURTYARD

CITY OF ALBUQUERQUE



January 29, 2010

Jennifer Flor, PE
Wilson & Company
2600 American Rd, SE, Ste. 100
Rio Rancho, NM 87124

Re: Inez ES Grading and Drainage Plan
Engineer Stamp 1-25-10 (J19/D67)

Dear Ms. Flor,

Based upon information provided in your submittal dated 1-26-10, the above referenced plan is approved for a Grading Permit. Upon completion of the project, please submit an Engineering Certification for our records.

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

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

Sincerely,

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

C: file

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 12/05 - AP)

PROJECT TITLE: Inez Elementary School Storm Drain ZONE MAP/DRG. FILE#: J-19 D067

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

LEGAL DESCRIPTION: Tract A Inez Elementary School Plat of Tract A Inez Elementary School Cont 9.2293 AC

CITY ADDRESS: 1700 Pennsylvania St NE, Albuquerque, NM 87110

ENGINEERING FIRM: Wilson & Company CONTACT: Jennifer Flor, PE
ADDRESS: 2600 The American Road SE, Ste 100 PHONE: 505-948-5129
CITY, STATE: Rio Rancho, NM ZIP CODE: 87124

OWNER: APS CONTACT: David Ritchey
ADDRESS: 915 Oak Street PHONE: 505-888-8876
CITY, STATE: Albuquerque New Mexico ZIP CODE: 87106

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

SURVEYING FIRM: Wilson & Company LICENSED SURVEYOR: Ben Aragon
ADDRESS: 4900 Lang Ave. NE PHONE: 505-348-4067
CITY, STATE: Albuquerque, NM ZIP CODE: 87109

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

CHECK TYPE OF SUBMITTAL:

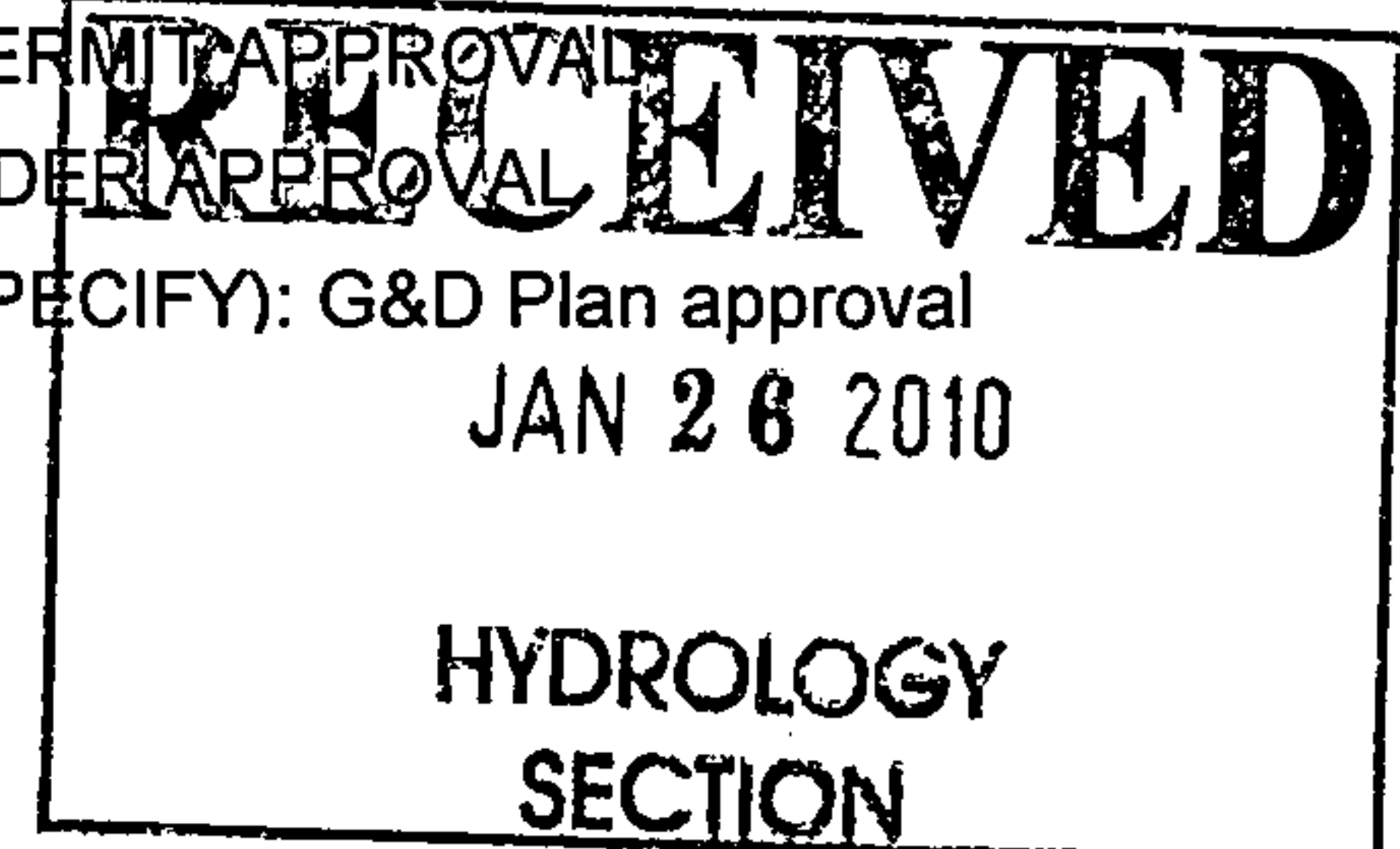
- ☐ DRAINAGE REPORT - RESUBMITTAL
- ☒ DRAINAGE PLAN 1st SUBMITTAL
- ☐ DRAINAGE PLAN RESUBMITTAL
- ☐ CONCEPTUAL GRADING & DRAINAGE PLAN
- ☐ GRADING PLAN
- ☐ EROSION CONTROL PLAN
- ☐ ENGINEER'S CERT (HYDROLOGY)
- ☐ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT
- ☐ ENGINEER/ARCHITECT CERT (TCL)
- ☐ ENGINEER/ARCHITECT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

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☒ YES
- ☐ NO
- ☐ COPY PROVIDED

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): G&D Plan approval



Submitted By: Jennifer Flor DATE: 01/25/2010

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 define the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

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

Transmittal

Date: January 25, 2010

To: Brad Bingham

City of Albuquerque

From: Jennifer Flor

Wilson & Company, Inc.

File No:	09-600-037-00	
Phase:	01	Task: 8610
Dept:	8600	
Project:	Inez Elem School Storm Drain	
Telephone:	505-948-5129	
Sent via: ☐ Ground ☐ 2 nd Day ☐ Overnight ☐ US Mail		

We Transmit:

- ☒ Attached
- ☐ Under separate cover via
- ☐ In accordance with your request

For Your:

- ☐ Approval
- ☒ Review and Comment
- ☐ Use
- ☐ Distribution to parties
- ☐ Record
- ☐ Information

The Following:

- ☒ Drawings
- ☐ Prints
- ☐ Specifications
- ☐ Change Order
- ☐ Shop Drawing Prints
- ☒ Other

Copies	Date	No.	Description
DRAINAGE REPORT			
1	Jan 10		Drainage and Transportation Information Sheet
2	Jan 10		Full size grading and drainage sheet
1			AHYMO input and summary file
1			Hydraflow results and plan view
1			Half size plan and profile sheets of storm drain

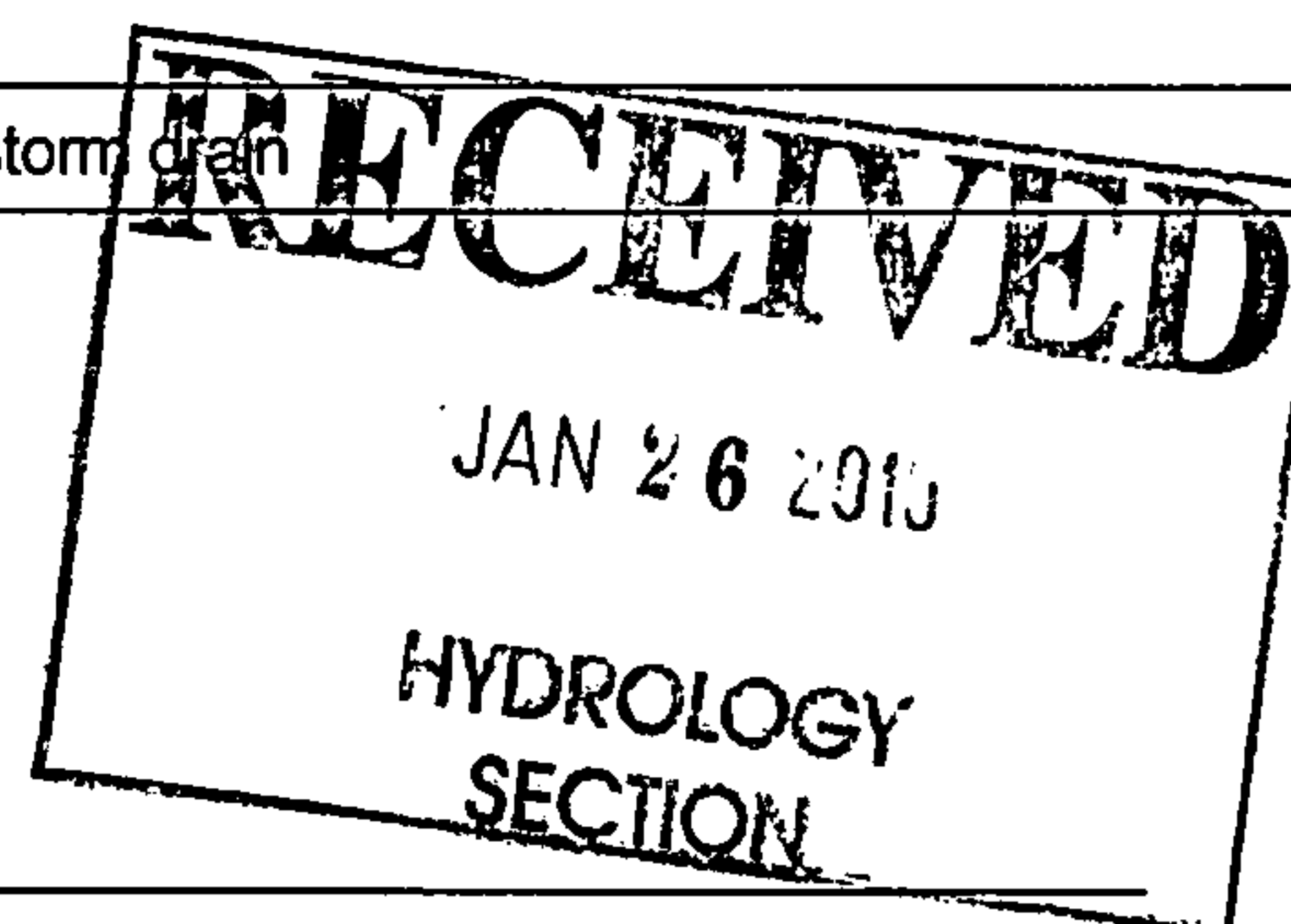
Comments:

Copies To: File

Sent By:

Jennifer Flor, P.E.

Received by:



SHARED OWNERSHIP • COLLABORATION
INTENSITY • DISCIPLINE • SOLUTIONS

AHYMO PROGRAM SUMMARY TABLE (AHYMO_97) -
INPUT FILE = M:\IDS\099323~1\AE_DATA\CALCS\AHYMO\PROP10~2.TXT

PROP 1006.SUM
- VERSION: 1997.02c

RUN DATE (MON/DAY/YR) =10/28/2009
USER NO.= AHYMO-C-9803c01UNMLIB-AH

COMMAND	HYDROGRAPH IDENTIFICATION	FROM ID NO.	TO ID NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	RUNOFF (INCHES)	TIME TO PEAK (HOURS)	CFS PER ACRE	PAGE = 1 NOTATION	
*S Regional Drainage Master Plan											
*S PROPOSED CONDITIONS MODEL											
*S Purpose of Run is for Confirming Flows for Inez Elementary School's Proposed											
START										TIME=	.00
LOCATION ALBUQUERQUE											
*S*****											
*S 100 YEAR 6HR STORM PROPOSED CONDITIONS											
RAINFALL TYPE= 1											
COMPUTE NM HYD	1.00	-	1	.00126	2.44	.087	1.28944	1.518	3.033	RAIN6= 2.410 PER IMP= 39.00	
COMPUTE NM HYD	2.00	-	2	.00232	5.62	.215	1.73910	1.518	3.787	PER IMP= 62.10	
COMPUTE NM HYD	3.00	-	3	.00064	1.58	.060	1.77845	1.518	3.866	PER IMP= 65.70	
COMPUTE NM HYD	4.00	-	4	.00111	3.03	.127	2.15343	1.518	4.281	PER IMP= 100.00	
COMPUTE NM HYD	5.00	-	5	.00332	5.81	.190	1.07465	1.518	2.741	PER IMP= 21.90	
COMPUTE NM HYD	6.00	-	6	.00025	.68	.028	2.15343	1.518	4.320	PER IMP= 100.00	
COMPUTE NM HYD	7.00	-	7	.00176	4.82	.202	2.15343	1.518	4.277	PER IMP= 100.00	
COMPUTE NM HYD	8.00	-	8	.00264	7.22	.303	2.15343	1.518	4.275	PER IMP= 100.00	
COMPUTE NM HYD	9.00	-	9	.00156	3.71	.139	1.67132	1.518	3.713	PER IMP= 55.90	
ADD HYD	5.10	4& 5	10	.00442	8.85	.317	1.34453	1.518	3.126		
ADD HYD	5.10	10& 9	11	.00598	12.56	.456	1.42981	1.518	3.279		
ADD HYD	8.10	8&11	12	.00863	19.78	.760	1.65132	1.518	3.584		
ADD HYD	2.10	2&12	13	.01094	25.40	.974	1.66988	1.518	3.627		
ADD HYD	AP.1	7&13	14	.01270	30.22	1.177	1.73687	1.518	3.717		
FINISH											

RECEIVED

JAN 26 2010

HYDROLOGY

*S Regional Drainage Master Plan
 *S PROPOSED CONDITIONS MODEL
 *S Purpose of Run is for Confirming Flows for Inez Elementary School's Proposed Conditions.

*
 *
 *

START TIME=0.0 PUNCH CODE=0 PRINT CODE=0
 LOCATION ALBUQUERQUE

*
 *

*S*****

*S 100 YEAR 6HR STORM PROPOSED CONDITIONS

RAINFALL TYPE=1 ONE DAY RAINFALL, NOAA ATLAS TWO
 QUARTER=1.10 IN
 HOUR= 1.84 IN
 SIX HR= 2.41 IN
 DAY= 2.82 IN DT=0.033

*
 *

* **** BASIN 201 **** (Area=0.806 Acres)

*

COMPUTE NM HYD ID=1 HYD=1 DA=.0012590 SQ MI
 PER A=0 B=61 C=0 D=39
 TP=0.13333 HRS RAIN=-1

PRINT HYD ID=1 CODE=1

*

* **** BASIN 202 **** (Area=1.4828 Acres)

*

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 PER A=0 B=0 C=37.9 D=62.1
 TP=0.13333 HRS RAIN=-1

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 PER A=0 B=0 C=34.3 D=65.7
 TP=0.13333 HRS RAIN=-1

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* **** BASIN 204 **** (Area=.7083 Acres) = BASIN 104

*

COMPUTE NM HYD ID=4 HYD=4 DA=.0011067 SQ MI
 PER A=0 B=0 C=0 D=100
 TP=0.13333 HRS RAIN=-1

PRINT HYD ID=4 CODE=1

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* **** BASIN 205 **** (Area=2.1217 Acres) = BASIN 105

*

COMPUTE NM HYD ID=5 HYD=5 DA=.0033152 SQ MI
 PER A=0 B=68 C=10.1 D=21.9
 TP=0.13333 HRS RAIN=-1

PRINT HYD ID=5 CODE=1

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* **** BASIN 206 **** (Area=0.1578 Acres) = BASIN 106

*

COMPUTE NM HYD ID=6 HYD=6 DA=.0002465 SQ MI
 PER A=0 B=0 C=0 D=100
 TP=0.13333 HRS RAIN=-1

PRINT HYD ID=6 CODE=1

*

* **** BASIN 207 **** (Area=1.1267 Acres) = BASIN 107

*

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 PER A=0 B=0 C=0 D=100
 TP=0.13333 HRS RAIN=-1

PRINT HYD ID=7 CODE=1

*

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*

COMPUTE NM HYD ID=8 HYD=8 DA=.0026406 SQ MI
 PER A=0 B=0 C=0 D=100
 TP=0.13333 HRS RAIN=-1

PRINT HYD ID=8 CODE=1

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* **** BASIN 209 **** (Area=1.049 Acres)

*

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 PER A=0 B=0 C=44.1 D=55.9
 TP=0.13333 HRS RAIN=-1

PRINT HYD ID=9 CODE=1

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* ****ADD BASINS 104 AND 105****

ADD HYD ID=10 HYD=5.1 ID I=4 ID II=5

PROP 1006.txt

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** *****ADD BASINS 104,105 AND 109*****
ADD HYD            ID=11      HYD=5.1 ID I=10 ID II=9
PRINT HYD          ID=11      CODE=1
*
* *****ADD BASIN 108 TO 104, 105 AND 109*****
ADD HYD            ID=12      HYD=8.1 ID I=8  ID II=11
PRINT HYD          ID=12      CODE=1
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* *****ADD BASIN 102 TO 105 AND 109, 108*****
ADD HYD            ID=13      HYD=2.1 ID I=2  ID II=12
PRINT HYD          ID=13      CODE=1
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* *****ADD BASIN 107 TO 105 AND 109, 108, 107*****
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PRINT HYD          ID=14      CODE=1
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FINISH

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PROP 1006.OUT

AHYMO PROGRAM (AHYMO_97) -

- Version: 1997.02c

RUN DATE (MON/DAY/YR) = 10/28/2009

START TIME (HR:MIN:SEC) = 09:35:35

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INPUT FILE = M:\IDS\099323~1\AE_DATA\CALCS\AHYMO\PROP10~2.TXT

*S Regional Drainage Master Plan

*S PROPOSED CONDITIONS MODEL

*S Purpose of Run is for Confirming Flows for Inez Elementary School's Proposed

*

*

START TIME=0.0 PUNCH CODE=0 PRINT CODE=0

LOCATION ALBUQUERQUE

City of Albuquerque soil infiltration values (LAND FACTORS) used for computations.

Land Treatment Initial Abstr.(in) Unif. Infilt.(in/hour)

A 0.65 1.67

B 0.50 1.25

C 0.35 0.83

D 0.10 0.04

*

*

*S*****

*S 100 YEAR 6HR STORM PROPOSED CONDITIONS

RAINFALL TYPE=1 ONE DAY RAINFALL, NOAA ATLAS TWO

QUARTER=1.10 IN

HOUR= 1.84 IN

SIX HR= 2.41 IN

DAY= 2.82 IN DT=0.033

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

HR.

DT = .033000 HOURS END TIME = 5.973000 HOURS

.0000 .0047 .0096 .0145 .0195 .0246 .0298

.0352 .0406 .0462 .0519 .0578 .0638 .0700

.0763 .0828 .0895 .0963 .1034 .1107 .1183

.1261 .1341 .1425 .1512 .1602 .1697 .1795

.1898 .2007 .2121 .2191 .2244 .2300 .2378

.2612 .2981 .3520 .4267 .5258 .6533 .8131

1.0092 1.2458 1.3517 1.4258 1.4907 1.5493 1.6031

1.6529 1.6993 1.7428 1.7837 1.8222 1.8586 1.8930

1.9256 1.9566 1.9859 2.0138 2.0403 2.0583 2.0648

2.0710 2.0770 2.0828 2.0885 2.0939 2.0992 2.1043

2.1093 2.1142 2.1189 2.1236 2.1281 2.1326 2.1369

2.1412 2.1454 2.1495 2.1535 2.1575 2.1614 2.1652

2.1690 2.1727 2.1764 2.1800 2.1836 2.1871 2.1905

2.1940 2.1973 2.2007 2.2040 2.2072 2.2104 2.2136

2.2167 2.2198 2.2229 2.2260 2.2290 2.2320 2.2349

2.2378 2.2407 2.2436 2.2464 2.2492 2.2520 2.2548

2.2575 2.2602 2.2629 2.2656 2.2682 2.2709 2.2735

2.2760 2.2786 2.2811 2.2837 2.2862 2.2887 2.2911

2.2936 2.2960 2.2984 2.3008 2.3032 2.3056 2.3079

2.3103 2.3126 2.3149 2.3172 2.3195 2.3218 2.3240

2.3262 2.3285 2.3307 2.3329 2.3351 2.3372 2.3394

2.3415 2.3437 2.3458 2.3479 2.3500 2.3521 2.3542

2.3563 2.3583 2.3604 2.3624 2.3644 2.3664 2.3685

2.3705 2.3724 2.3744 2.3764 2.3783 2.3803 2.3822

2.3842 2.3861 2.3880 2.3899 2.3918 2.3937 2.3956

2.3974 2.3993 2.4012 2.4030 2.4049 2.4067 2.4085

*

*

* **** BASIN 201 **** (Area=0.806 Acres)

*

COMPUTE NM HYD ID=1 HYD=1 DA=.0012590 SQ MI

PER A=0 B=61 C=0 D=39

TP=0.13333 HRS RAIN=-1

7.106420 K = .072665HR TP = .133330HR K/TP RATIO = .545000 SHAPE CONSTANT, N =

1.8400 UNIT PEAK = 1.9381 CFS UNIT VOLUME = .9940 B = 526.28 P60 =

AREA = .000491 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR

RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033000

3.578762 K = .131549HR TP = .133330HR K/TP RATIO = .986645 SHAPE CONSTANT, N =

1.8400 UNIT PEAK = 1.8780 CFS UNIT VOLUME = .9927 B = 326.03 P60 =

AREA = .000768 SQ MI IA = .50000 INCHES INF = 1.25000 INCHES PER HOUR

RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033000

PROP 1006.OUT

PRINT HYD ID=1 CODE=1

OUTFLOW HYDROGRAPH REACH 1.00

RUNOFF VOLUME = 1.28944 INCHES = .0866 ACRE-FEET
 PEAK DISCHARGE RATE = 2.44 CFS AT 1.518 HOURS BASIN AREA = .0013 SQ. MI.

*
 * **** BASIN 202 **** (Area=1.4828 Acres)
 *

COMPUTE NM HYD ID=2 HYD=2 DA=.0023168 SQ MI
 PER A=0 B=0 C=37.9 D=62.1
 TP=0.13333 HRS RAIN=-1

7.106420 K = .072665HR TP = .133330HR K/TP RATIO = .545000 SHAPE CONSTANT, N =
 1.8400 UNIT PEAK = 5.6789 CFS UNIT VOLUME = .9976 B = 526.28 P60 =
 AREA = .001439 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033000

4.531123 K = .105552HR TP = .133330HR K/TP RATIO = .791661 SHAPE CONSTANT, N =
 1.8400 UNIT PEAK = 2.5628 CFS UNIT VOLUME = .9956 B = 389.14 P60 =
 AREA = .000878 SQ MI IA = .35000 INCHES INF = .83000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033000

PRINT HYD ID=2 CODE=1

OUTFLOW HYDROGRAPH REACH 2.00

RUNOFF VOLUME = 1.73910 INCHES = .2149 ACRE-FEET
 PEAK DISCHARGE RATE = 5.62 CFS AT 1.518 HOURS BASIN AREA = .0023 SQ. MI.

*
 * **** BASIN 203 **** (Area=0.4082 Acres)
 *

COMPUTE NM HYD ID=3 HYD=3 DA=.0006377 SQ MI
 PER A=0 B=0 C=34.3 D=65.7
 TP=0.13333 HRS RAIN=-1

7.106420 K = .072665HR TP = .133330HR K/TP RATIO = .545000 SHAPE CONSTANT, N =
 1.8400 UNIT PEAK = 1.6537 CFS UNIT VOLUME = .9920 B = 526.28 P60 =
 AREA = .000419 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033000

4.531123 K = .105552HR TP = .133330HR K/TP RATIO = .791661 SHAPE CONSTANT, N =
 1.8400 UNIT PEAK = .63840 CFS UNIT VOLUME = .9798 B = 389.14 P60 =
 AREA = .000219 SQ MI IA = .35000 INCHES INF = .83000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033000

PRINT HYD ID=3 CODE=1

OUTFLOW HYDROGRAPH REACH 3.00

RUNOFF VOLUME = 1.77845 INCHES = .0605 ACRE-FEET
 PEAK DISCHARGE RATE = 1.58 CFS AT 1.518 HOURS BASIN AREA = .0006 SQ. MI.

*
 * **** BASIN 204 **** (Area=.7083 Acres)
 *

COMPUTE NM HYD ID=4 HYD=4 DA=.0011067 SQ MI
 PER A=0 B=0 C=0 D=100
 TP=0.13333 HRS RAIN=-1

7.106420 K = .072665HR TP = .133330HR K/TP RATIO = .545000 SHAPE CONSTANT, N =

PROP 1006.OUT
1.8400 UNIT PEAK = 4.3683 CFS UNIT VOLUME = .9969 B = 526.28 P60 =
AREA = .001107 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033000

PRINT HYD ID=4 CODE=1

OUTFLOW HYDROGRAPH REACH 4.00

RUNOFF VOLUME = 2.15343 INCHES = .1271 ACRE-FEET
PEAK DISCHARGE RATE = 3.03 CFS AT 1.518 HOURS BASIN AREA = .0011 SQ. MI.

*
* **** BASIN 205 **** (Area=2.1217 Acres)
*

COMPUTE NM HYD ID=5 HYD=5 DA=.0033152 SQ MI
PER A=0 B=68 C=10.1 D=21.9
TP=0.13333 HRS RAIN=-1

7.106420 K = .072665HR TP = .133330HR K/TP RATIO = .545000 SHAPE CONSTANT, N =
1.8400 UNIT PEAK = 2.8658 CFS UNIT VOLUME = .9954 B = 526.28 P60 =
AREA = .000726 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033000

3.674894 K = .128187HR TP = .133330HR K/TP RATIO = .961429 SHAPE CONSTANT, N =
1.8400 UNIT PEAK = 6.4643 CFS UNIT VOLUME = .9983 B = 332.88 P60 =
AREA = .002589 SQ MI IA = .48060 INCHES INF = 1.19569 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033000

PRINT HYD ID=5 CODE=1

OUTFLOW HYDROGRAPH REACH 5.00

RUNOFF VOLUME = 1.07465 INCHES = .1900 ACRE-FEET
PEAK DISCHARGE RATE = 5.81 CFS AT 1.518 HOURS BASIN AREA = .0033 SQ. MI.

*
* **** BASIN 206 **** (Area=0.1578 Acres)
*

COMPUTE NM HYD ID=6 HYD=6 DA=.0002465 SQ MI
PER A=0 B=0 C=0 D=100
TP=0.13333 HRS RAIN=-1

7.106420 K = .072665HR TP = .133330HR K/TP RATIO = .545000 SHAPE CONSTANT, N =
1.8400 UNIT PEAK = .97298 CFS UNIT VOLUME = .9877 B = 526.28 P60 =
AREA = .000246 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033000

PRINT HYD ID=6 CODE=1

OUTFLOW HYDROGRAPH REACH 6.00

RUNOFF VOLUME = 2.15343 INCHES = .0283 ACRE-FEET
PEAK DISCHARGE RATE = .68 CFS AT 1.518 HOURS BASIN AREA = .0002 SQ. MI.

*
* **** BASIN 207 **** (Area=1.1267 Acres)
*

COMPUTE NM HYD ID=7 HYD=7 DA=.0017604 SQ MI
PER A=0 B=0 C=0 D=100
TP=0.13333 HRS RAIN=-1

7.106420 K = .072665HR TP = .133330HR K/TP RATIO = .545000 SHAPE CONSTANT, N =
1.8400 UNIT PEAK = 6.9486 CFS UNIT VOLUME = .9978 B = 526.28 P60 =
AREA = .001760 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033000

PROP 1006.OUT

PRINT HYD ID=7 CODE=1

OUTFLOW HYDROGRAPH REACH 7.00

RUNOFF VOLUME = 2.15343 INCHES = .2022 ACRE-FEET
PEAK DISCHARGE RATE = 4.82 CFS AT 1.518 HOURS BASIN AREA = .0018 SQ. MI.

*
* **** BASIN 208 **** (Area=1.69 Acres)
*

COMPUTE NM HYD ID=8 HYD=8 DA=.0026406 SQ MI
PER A=0 B=0 C=0 D=100
TP=0.13333 HRS RAIN=-1

7.106420 K = .072665HR TP = .133330HR K/TP RATIO = .545000 SHAPE CONSTANT, N =
1.8400 UNIT PEAK = 10.423 CFS UNIT VOLUME = .9984 B = 526.28 P60 =
AREA = .002641 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033000

PRINT HYD ID=8 CODE=1

OUTFLOW HYDROGRAPH REACH 8.00

RUNOFF VOLUME = 2.15343 INCHES = .3033 ACRE-FEET
PEAK DISCHARGE RATE = 7.22 CFS AT 1.518 HOURS BASIN AREA = .0026 SQ. MI.

*
* **** BASIN 209 **** (Area=1.049 Acres)
*

COMPUTE NM HYD ID=9 HYD=9 DA=.0015625 SQ MI
PER A=0 B=0 C=44.1 D=55.9
TP=0.13333 HRS RAIN=-1

7.106420 K = .072665HR TP = .133330HR K/TP RATIO = .545000 SHAPE CONSTANT, N =
1.8400 UNIT PEAK = 3.4476 CFS UNIT VOLUME = .9960 B = 526.28 P60 =
AREA = .000873 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033000

4.531123 K = .105552HR TP = .133330HR K/TP RATIO = .791661 SHAPE CONSTANT, N =
1.8400 UNIT PEAK = 2.0111 CFS UNIT VOLUME = .9939 B = 389.14 P60 =
AREA = .000689 SQ MI IA = .35000 INCHES INF = .83000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033000

PRINT HYD ID=9 CODE=1

OUTFLOW HYDROGRAPH REACH 9.00

RUNOFF VOLUME = 1.67132 INCHES = .1393 ACRE-FEET
PEAK DISCHARGE RATE = 3.71 CFS AT 1.518 HOURS BASIN AREA = .0016 SQ. MI.

*
* ****ADD BASINS 104 AND 105****

ADD HYD ID=10 HYD=5.1 ID I=4 ID II=5
PRINT HYD ID=10 CODE=1

OUTFLOW HYDROGRAPH REACH 5.10

RUNOFF VOLUME = 1.34453 INCHES = .3171 ACRE-FEET
PEAK DISCHARGE RATE = 8.85 CFS AT 1.518 HOURS BASIN AREA = .0044 SQ. MI.

** ****ADD BASINS 104,105 AND 109****

ADD HYD ID=11 HYD=5.1 ID I=10 ID II=9
PRINT HYD ID=11 CODE=1

PROP 1006.OUT
OUTFLOW HYDROGRAPH REACH 5.10

RUNOFF VOLUME = 1.42981 INCHES = .4563 ACRE-FEET
PEAK DISCHARGE RATE = 12.56 CFS AT 1.518 HOURS BASIN AREA = .0060 SQ. MI.

*

* ****ADD BASIN 108 TO 104, 105 AND 109****

ADD HYD ID=12 HYD=8.1 ID I=8 ID II=11
PRINT HYD ID=12 CODE=1

OUTFLOW HYDROGRAPH REACH 8.10

RUNOFF VOLUME = 1.65132 INCHES = .7596 ACRE-FEET
PEAK DISCHARGE RATE = 19.78 CFS AT 1.518 HOURS BASIN AREA = .0086 SQ. MI.

*

* ****ADD BASIN 102 TO 105 AND 109, 108****

ADD HYD ID=13 HYD=2.1 ID I=2 ID II=12
PRINT HYD ID=13 CODE=1

OUTFLOW HYDROGRAPH REACH 2.10

RUNOFF VOLUME = 1.66988 INCHES = .9745 ACRE-FEET
PEAK DISCHARGE RATE = 25.40 CFS AT 1.518 HOURS BASIN AREA = .0109 SQ. MI.

*

* ****ADD BASIN 107 TO 105 AND 109, 108, 107****

ADD HYD ID=14 HYD=AP.1 ID I=7 ID II=13
PRINT HYD ID=14 CODE=1

HYDROGRAPH FROM AREA AP.1

RUNOFF VOLUME = 1.73687 INCHES = 1.1766 ACRE-FEET
PEAK DISCHARGE RATE = 30.22 CFS AT 1.518 HOURS BASIN AREA = .0127 SQ. MI.

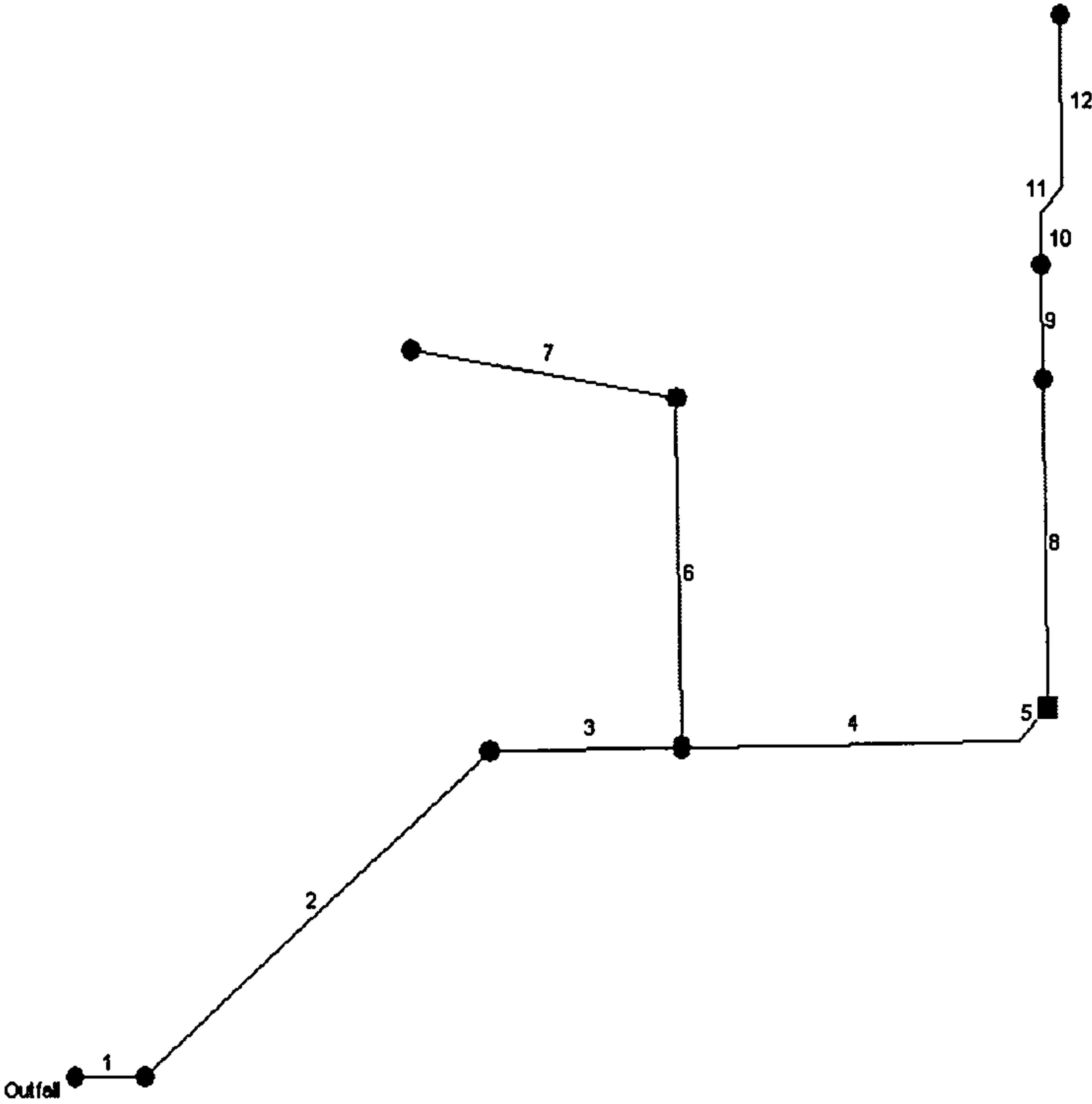
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FINISH

NORMAL PROGRAM FINISH

END TIME (HR:MIN:SEC) = 09:35:35

Hydraflow Plan View



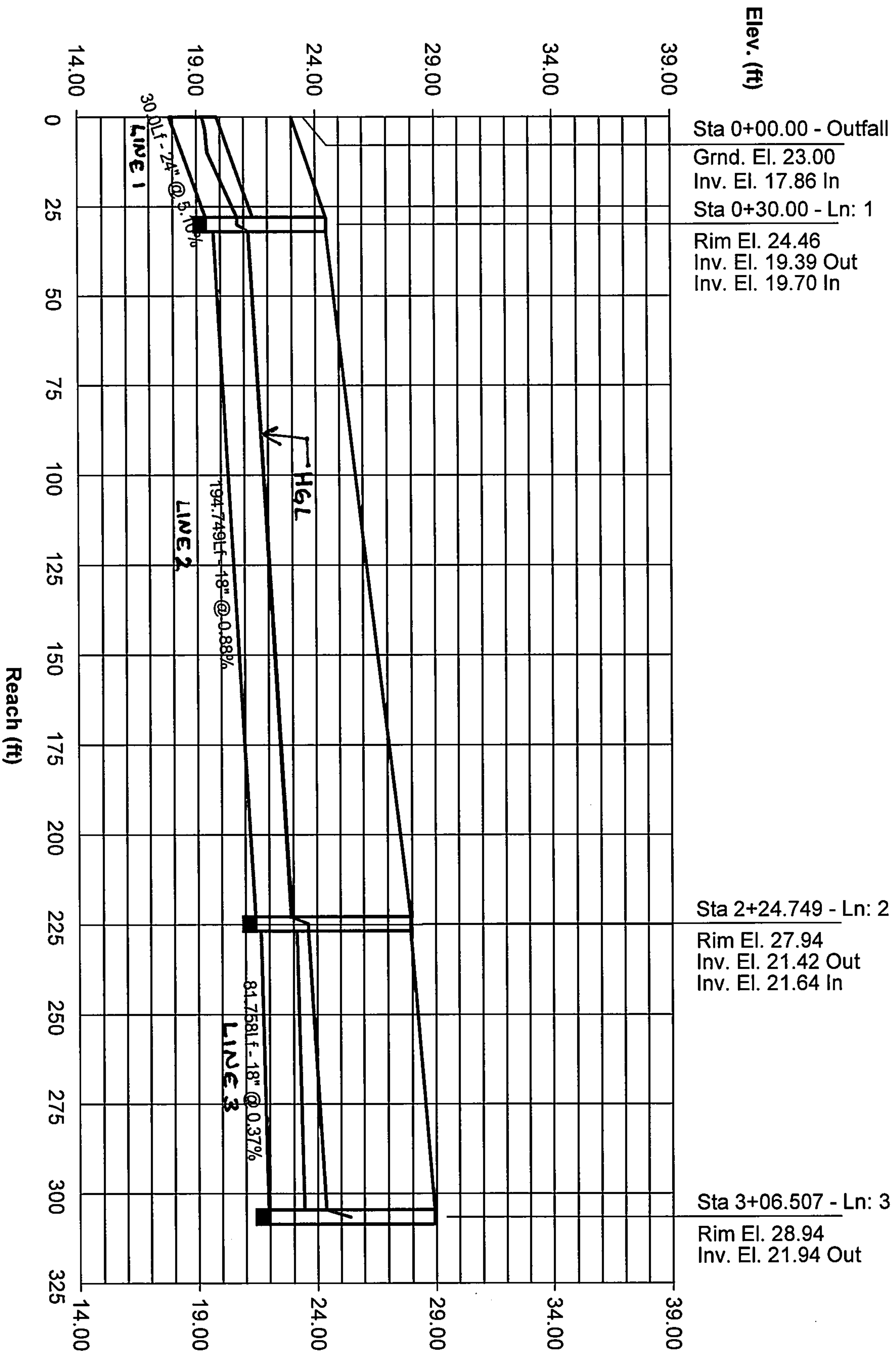
RECEIVED
JAN 26 2010
HYDROLOGY
SECTION

Project File: PHASE1.stm	No. Lines: 12	01-25-2010
--------------------------	---------------	------------

Line No.	Flow Rate	Line Size	Line Slope	Vel Ave	Invert Up	Invert Dn	HGL Up	HGL Dn	Gnd/Rim EI Up	Gnd/Rim EI Dn	Cover Up	Cover Dn		
	(cfs)	(in)	(%)	(ft/s)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)		
1	14.46	24	5.10	6.32	19.39	17.86	20.74 j	19.25	24.46	23.00	3.07	3.14		
2	14.46	18	0.88	8.19	21.42	19.70	22.91	21.20	27.94	24.46	5.02	3.26		
3	14.46	18	0.37	8.18	21.94	21.64	24.37	23.63	28.94	27.94	5.50	4.80		
4	8.84	24	0.70	2.81	23.05	22.04	26.44	26.33	30.07	28.94	5.02	4.90		
5	8.84	24	0.66	2.81	23.17	23.05	26.54	26.53	30.01	30.07	4.84	5.02		
6	5.62	18	0.89	3.18	23.74	22.53	26.49	26.30	28.14	28.94	2.90	4.91		
7	5.62	18	0.60	3.18	24.43	23.74	26.80	26.64	28.25	28.14	2.32	2.90		
8	5.90	18	1.01	3.34	24.51	23.22	26.88	26.68	30.10	30.01	4.09	5.29		
9	4.37	18	1.00	2.47	24.96	24.51	27.02	26.98	30.20	30.10	3.74	4.09		
10	3.03	18	1.00	1.71	25.16	24.96	27.09	27.08	30.27	30.20	3.61	3.74		
11	3.03	18	1.01	1.71	25.30	25.16	27.13	27.12	30.46	30.27	3.66	3.61		
12	3.03	18	1.04	1.88	26.00	25.30	27.17	27.16	30.08	30.46	2.58	3.66		
Project File: PHASE1.stm												Number of lines: 12		Date: 01-25-2010
NOTES: ** Critical depth														

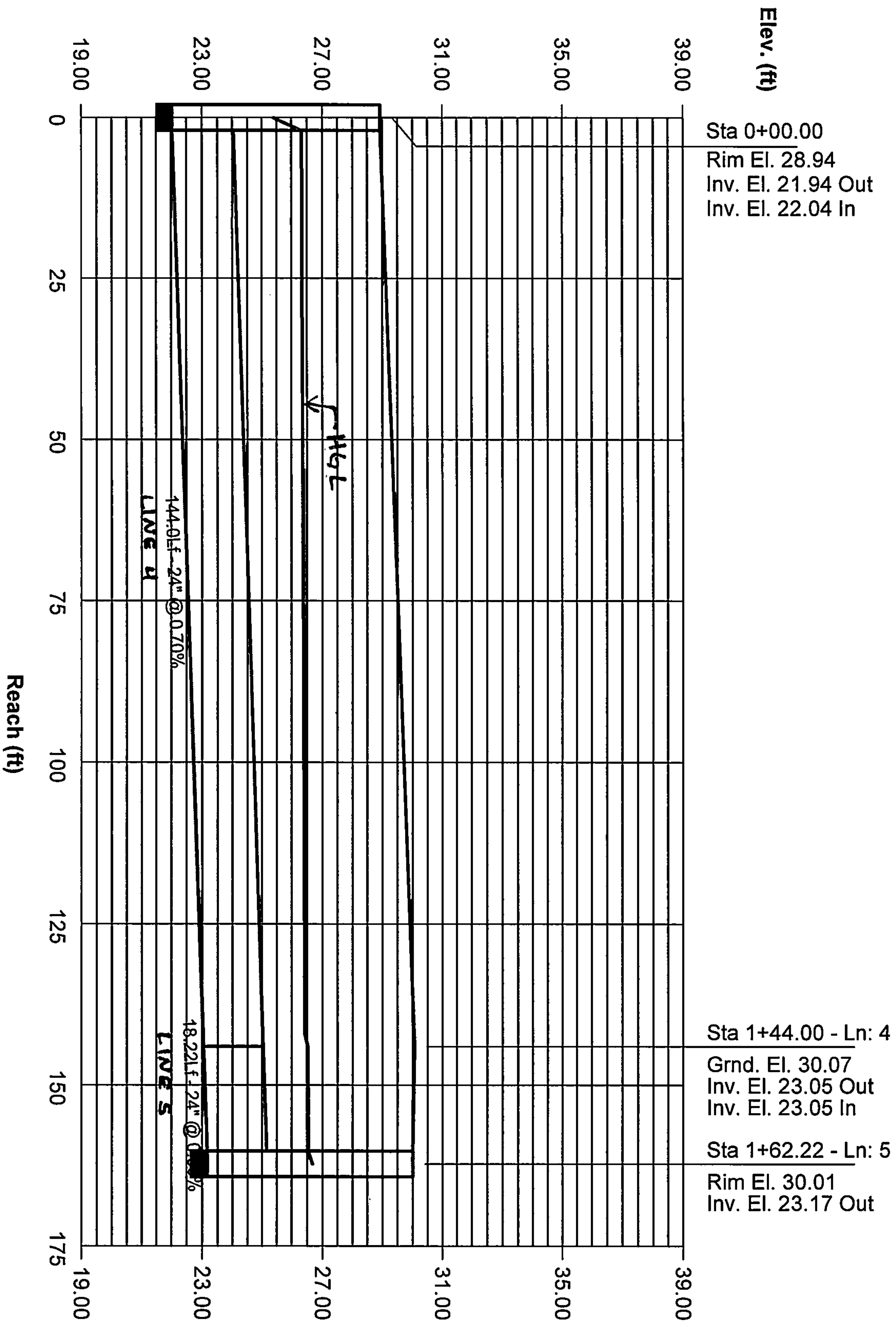
Storm Sewer Profile

Proj. file: PHASE1.stm



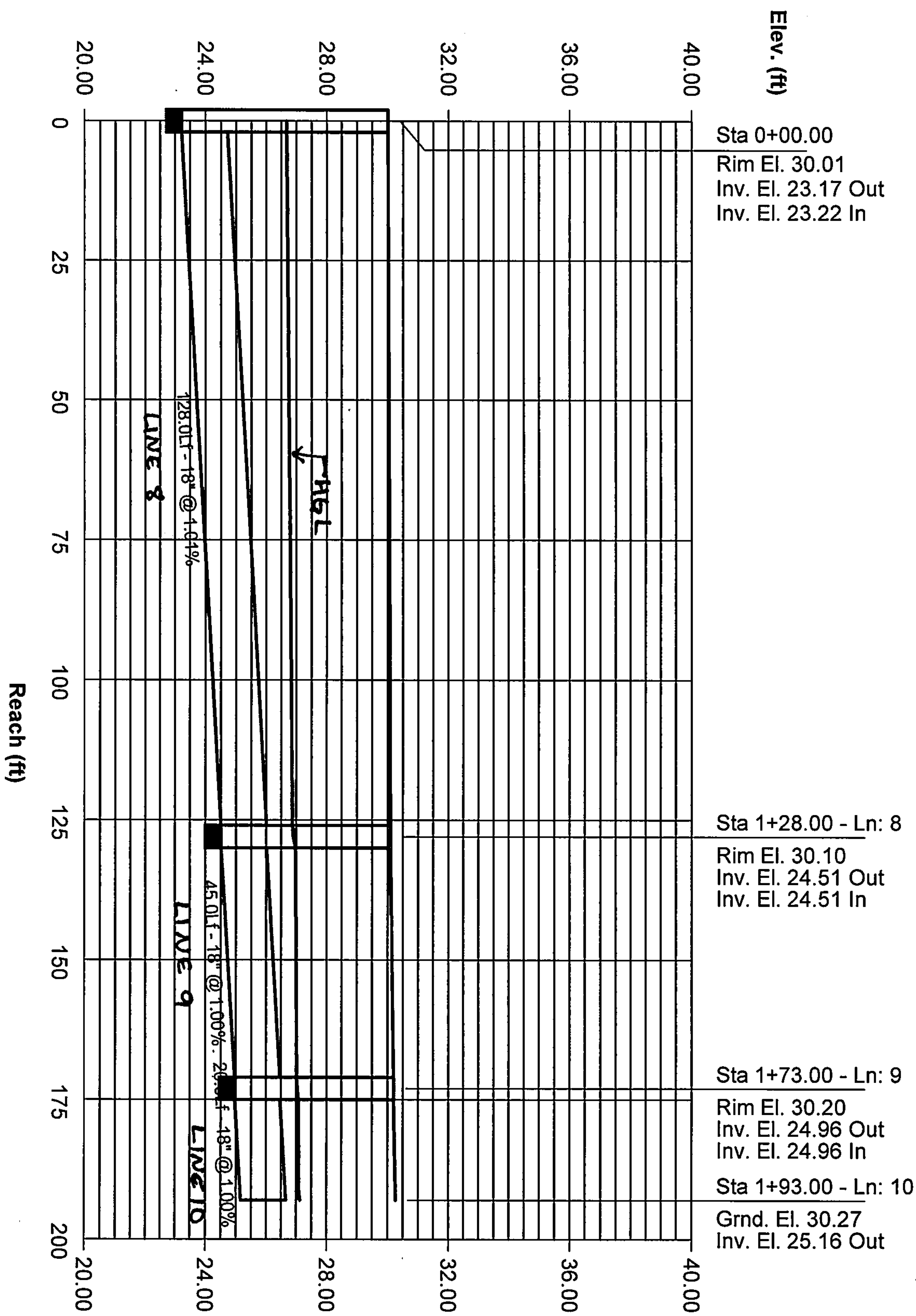
Storm Sewer Profile

Proj. file: PHASE1.stm



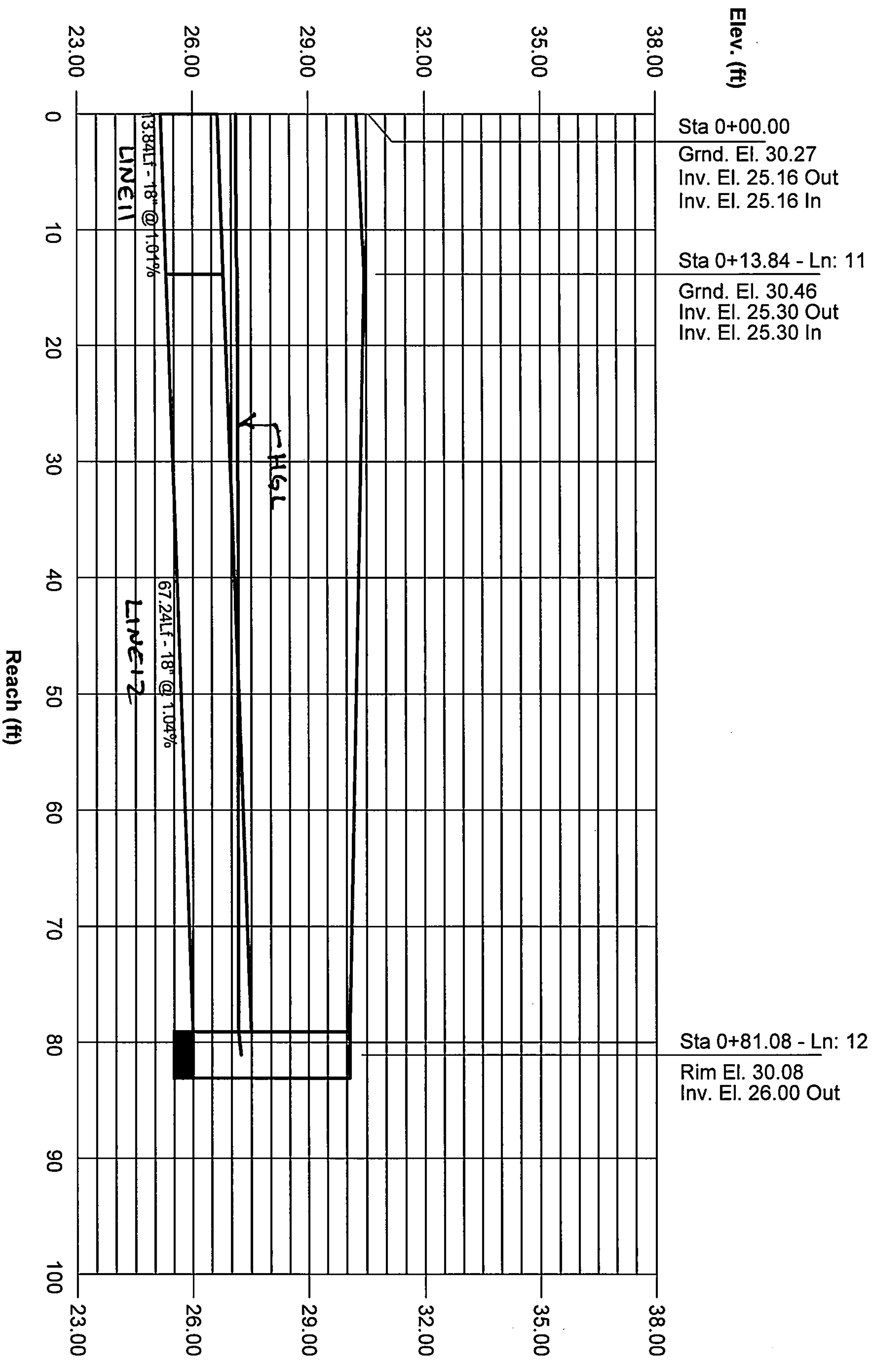
Storm Sewer Profile

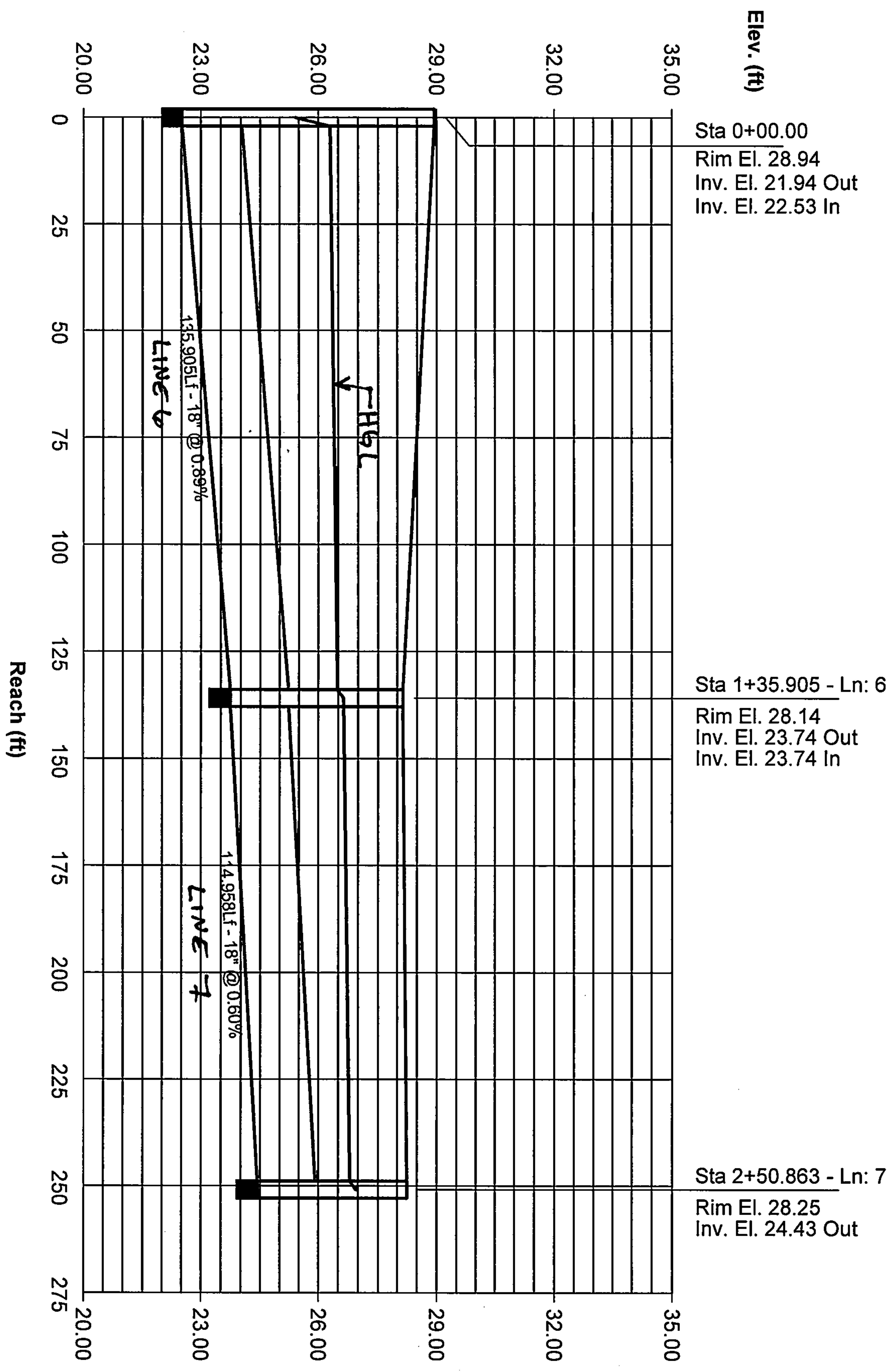
Proj. file: PHASE1.stm



Storm Sewer Profile

Proj. file: PHASE1.stm







SCALE:
HORIZ: 1" = 20'
VERT: 1" = 5'

[illegible]

PROJECT NO:	
DESIGNED BY:	JMF
DRAWN BY:	AJM
CHECKED BY:	MJH

RECEIVED

JAN 26 1960

HYDROLOGY
SECTION

SHEET TITLE

PLAN AND
PROFILE
SOUTH SD

SHEET NO:

C-103

**WILSON
& COMPANY**

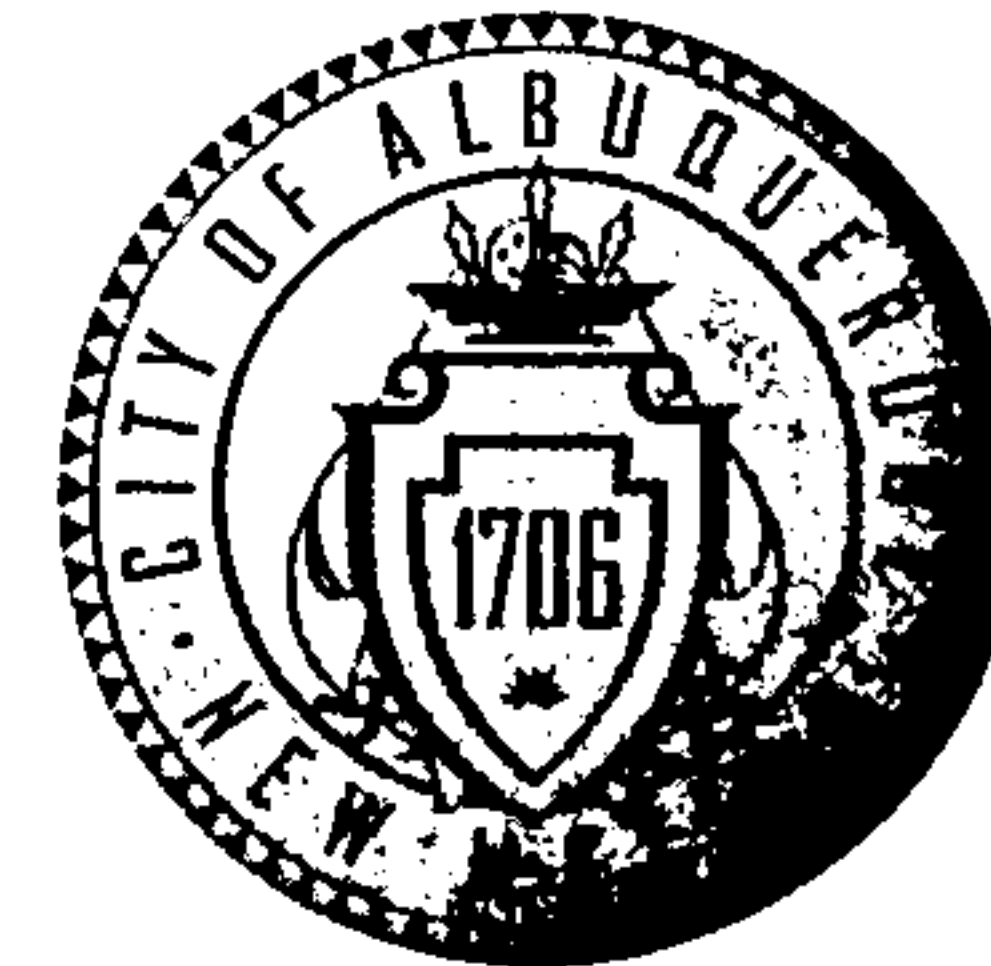
2600 THE AMERICAN RD. SE SUITE 100
RIO RANCHO, NM 87124
PHONE: 505-898-8021
FAX: 505-898-8501
www.wilsonco.com

CONSULTANTS



INEZ ELEMENTARY SCHOOL STORM DRAIN IMPROVEMENTS

CITY OF ALBUQUERQUE



December 10, 2009

Jennifer M Flor, P.E.
Wilson & Company, Inc.
2600 The American Rd SE, Suite 100
Rio Rancho, NM 87124

Re: Inez Elementary School Drainage Master Plan
Engineer's Stamp dated 12-7-09 (J19/D067)

Dear Ms. Flor,

Based upon the information provided in your submittal received 12-7-09, the above referenced plan is approved as the Drainage Master Plan.

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

PO Box 1293

Albuquerque

NM 87103

Sincerely,

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

www.cabq.gov

C: file

*Items not built
will be superseded*

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 12/05 - AP)

PROJECT TITLE: Inez Elementary School

ZONE MAP/DRG. FILE#: J-19 /D067

DRB#:

EPC#:

WORK ORDER #:

LEGAL DESCRIPTION: Tract A Inez Elementary School Plat of Tract A Inez Elementary School Cont 9.2293 AC

CITY ADDRESS: 1700 Pennsylvania St NE, Albuquerque, NM 87110

ENGINEERING FIRM: Wilson & Company

ADDRESS: 2600 The American Road SE, Ste 100

CITY, STATE: Rio Rancho, NM

CONTACT: Jennifer Flor, PE

PHONE: 505-948-5129

ZIP CODE: 87124

OWNER: APS

ADDRESS: 915 Oak Street

CITY, STATE: Albuquerque New Mexico

CONTACT: David Ritchey

PHONE: 505-888-8876

ZIP CODE: 87106

ARCHITECT:

ADDRESS:

CITY, STATE:

CONTACT:

PHONE:

ZIP CODE:

SURVEYING FIRM: Wilson & Company

ADDRESS: 4900 Lang Ave. NE

CITY, STATE: Albuquerque, NM

LICENSED SURVEYOR: Ben Aragon

PHONE: 505-348-4067

ZIP CODE: 87109

CONTRACTOR:

ADDRESS:

CITY, STATE:

CONTACT:

PHONE:

ZIP CODE:

CHECK TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT - RESUBMITTAL
☒ DRAINAGE PLAN 1st SUBMITTAL
☐ DRAINAGE PLAN RESUBMITTAL
☐ CONCEPTUAL GRADING & DRAINAGE PLAN
☐ GRADING PLAN
☐ EROSION CONTROL PLAN
☐ ENGINEER'S CERT (HYDROLOGY)
☐ CLOMRLMR
☐ TRAFFIC CIRCULTAION LAYOUT
☐ ENGINEER/ARCHITECT CERT (TCL)
☐ ENGINEER/ARCHITECT CERT (DRB S. P.)
☐ ENGINEER/ARCHITECT CERT (AA)
☐ OTHER (SPECIFY)

*Called
Jennifer
12-9-09*

CHECK TYPE OF APPROVAL SOUGHT:

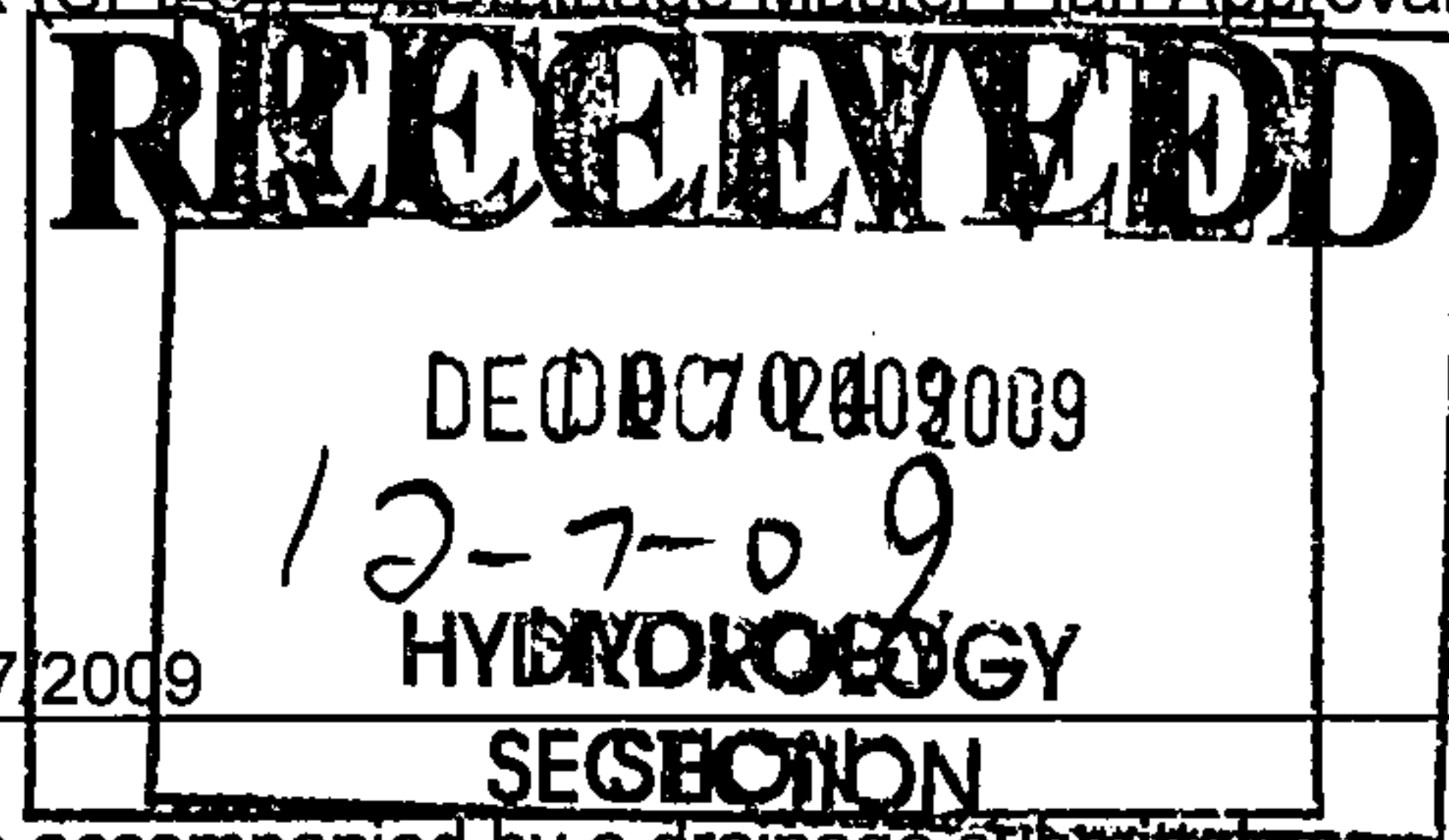
- ☐ SIA / FINANCIAL GUARANTEE RELEASE
☐ PRELIMINARY PLAT APPROVAL
☐ S. DEV. PLAN FOR SUB'D. APPROVAL
☐ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
☐ SECTOR PLAN APPROVAL
☐ FINAL PLAT APPROVAL
☐ FOUNDATION PERMIT APPROVAL
☐ BUILDING PERMIT APPROVAL
☐ CERTIFICATE OF OCCUPANCY (PERM.)
☐ CERTIFICATE OF OCCUPANCY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

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☒ YES
☐ NO
☐ COPY PROVIDED

Submitted By: Jennifer Flor

DATE: 12/07/2009



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 define the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

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

Inez Elementary School Drainage Master Plan

Appendix A

AHYMO Files

Existing Conditions

*S Drainage Master Plan
 *S EXISTING CONDITIONS MODEL
 *S Purpose of Run is for Confirming Flows for Inez Elementary School's Existing Conditions.

*

*

*

START TIME=0.0 PUNCH CODE=0 PRINT CODE=0
 LOCATION ALBUQUERQUE

*

*S*****

*S 100 YEAR 6HR STORM EXISTING CONDITION

RAINFALL TYPE=1 ONE DAY RAINFALL, NOAA ATLAS TWO
 QUARTER=1.10 IN
 HOUR= 1.84 IN
 SIX HR= 2.41 IN
 DAY= 2.82 IN DT=0.033

*

*

* **** BASIN 101 **** (Area=0.806 Acres)

*

COMPUTE NM HYD ID=1 HYD=1 DA=.0012590 SQ MI
 PER A=0 B=61 C=0 D=39
 TP=0.13333 HRS RAIN=-1
 PRINT HYD ID=1 CODE=1

*

* **** BASIN 102 **** (Area=1.4828 Acres)

*

COMPUTE NM HYD ID=2 HYD=2 DA=.0023168 SQ MI
 PER A=0 B=0 C=41.9 D=58.1
 TP=0.13333 HRS RAIN=-1
 PRINT HYD ID=2 CODE=1

*

* **** BASIN 103 **** (Area=0.4082 Acres)

*

COMPUTE NM HYD ID=3 HYD=3 DA=.0006377 SQ MI
 PER A=0 B=0 C=34.3 D=65.7
 TP=0.13333 HRS RAIN=-1
 PRINT HYD ID=3 CODE=1

*

* **** BASIN 104 **** (Area=.7083 Acres)

*

COMPUTE NM HYD ID=4 HYD=4 DA=.0011067 SQ MI
 PER A=0 B=0 C=0 D=100
 TP=0.13333 HRS RAIN=-1
 PRINT HYD ID=4 CODE=1

*

* **** BASIN 105 **** (Area=2.1217 Acres)

*

COMPUTE NM HYD ID=5 HYD=5 DA=.0033152 SQ MI
 PER A=0 B=68 C=16.2 D=15.8
 TP=0.13333 HRS RAIN=-1
 PRINT HYD ID=5 CODE=1

*

* **** BASIN 106 **** (Area=0.1578 Acres)

*

COMPUTE NM HYD ID=6 HYD=6 DA=.0002465 SQ MI
 PER A=0 B=0 C=0 D=100
 TP=0.13333 HRS RAIN=-1
 PRINT HYD ID=6 CODE=1

*

* **** BASIN 107 **** (Area=1.1267 Acres)

*

COMPUTE NM HYD ID=7 HYD=7 DA=.0017604 SQ MI
 PER A=0 B=0 C=11.5 D=88.5
 TP=0.13333 HRS RAIN=-1
 PRINT HYD ID=7 CODE=1

*

* **** BASIN 108 **** (Area=1.69 Acres)

*

COMPUTE NM HYD ID=8 HYD=8 DA=.0026406 SQ MI
 PER A=0 B=0 C=34.9 D=65.1
 TP=0.13333 HRS RAIN=-1
 PRINT HYD ID=8 CODE=1

*

* **** BASIN 109 **** (Area=1.049 Acres)

*

COMPUTE NM HYD ID=9 HYD=9 DA=.0015625 SQ MI
 PER A=0 B=0 C=44.1 D=55.9
 TP=0.13333 HRS RAIN=-1
 PRINT HYD ID=9 CODE=1

*

*

FINISH

AHYMO PROGRAM SUMMARY TABLE (AHYMO_97) -
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EX 1006.SUM
 - VERSION: 1997.02c

RUN DATE (MON/DAY/YR) =10/28/2009
 USER NO.= AHYMO-C-9803c01UNMLIB-AH

COMMAND	HYDROGRAPH IDENTIFICATION	FROM ID NO.	TO ID NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	RUNOFF (INCHES)	TIME TO PEAK (HOURS)	CFS PER ACRE	PAGE = 1	NOTATION
*S Drainage Master Plan											
*S EXISTING CONDITIONS MODEL											
*S Purpose of Run is for Confirming Flows for Inez Elementary School's Existing											
START											
LOCATION ALBUQUERQUE											
*S*****											
*S 100 YEAR 6HR STORM EXISTING CONDITION											
RAINFALL TYPE= 1											
COMPUTE NM HYD	1.00	-	1	.00126	2.44	.087	1.28944	1.518	3.033	RAIN6= 2.410	
COMPUTE NM HYD	2.00	-	2	.00232	5.54	.209	1.69537	1.518	3.735	PER IMP= 39.00	
COMPUTE NM HYD	3.00	-	3	.00064	1.58	.060	1.77845	1.518	3.866	PER IMP= 58.10	
COMPUTE NM HYD	4.00	-	4	.00111	3.03	.127	2.15343	1.518	4.281	PER IMP= 65.70	
COMPUTE NM HYD	5.00	-	5	.00332	5.64	.178	1.00516	1.518	2.659	PER IMP= 100.00	
COMPUTE NM HYD	6.00	-	6	.00025	.68	.028	2.15343	1.518	4.320	PER IMP= 15.80	
COMPUTE NM HYD	7.00	-	7	.00176	4.66	.190	2.02770	1.518	4.136	PER IMP= 100.00	
COMPUTE NM HYD	8.00	-	8	.00264	6.46	.250	1.77189	1.518	3.825	PER IMP= 88.50	
COMPUTE NM HYD	9.00	-	9	.00156	3.71	.139	1.67132	1.518	3.713	PER IMP= 65.10	
FINISH											

AHYMO PROGRAM (AHYMO_97) -

- Version: 1997.02c

RUN DATE (MON/DAY/YR) = 10/28/2009

START TIME (HR:MIN:SEC) = 09:35:58

USER NO. = AHYMO-C-9803C01UNMLIB-AH

INPUT FILE = M:\IDS\099323~1\AE_DATA\CALCS\AHYMO\EX1006~1.TXT

*S Drainage Master Plan

*S EXISTING CONDITIONS MODEL

*S Purpose of Run is for Confirming Flows for Inez Elementary School's Existing

*

*

START TIME=0.0 PUNCH CODE=0 PRINT CODE=0

LOCATION ALBUQUERQUE

City of Albuquerque soil infiltration values (LAND FACTORS) used for computations.

Land Treatment	Initial Abstr.(in)	Unif. Infiltr.(in/hour)
A	0.65	1.67
B	0.50	1.25
C	0.35	0.83
D	0.10	0.04

*

*

*S 100 YEAR 6HR STORM EXISTING CONDITION

RAINFALL

TYPE=1 ONE DAY RAINFALL, NOAA ATLAS TWO

QUARTER=1.10 IN

HOUR= 1.84 IN

SIX HR= 2.41 IN

DAY= 2.82 IN DT=0.033

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

HR.

DT = .033000 HOURS			END TIME = 5.973000 HOURS			
.0000	.0047	.0096	.0145	.0195	.0246	.0298
.0352	.0406	.0462	.0519	.0578	.0638	.0700
.0763	.0828	.0895	.0963	.1034	.1107	.1183
.1261	.1341	.1425	.1512	.1602	.1697	.1795
.1898	.2007	.2121	.2191	.2244	.2300	.2378
.2612	.2981	.3520	.4267	.5258	.6533	.8131
1.0092	1.2458	1.3517	1.4258	1.4907	1.5493	1.6031
1.6529	1.6993	1.7428	1.7837	1.8222	1.8586	1.8930
1.9256	1.9566	1.9859	2.0138	2.0403	2.0583	2.0648
2.0710	2.0770	2.0828	2.0885	2.0939	2.0992	2.1043
2.1093	2.1142	2.1189	2.1236	2.1281	2.1326	2.1369
2.1412	2.1454	2.1495	2.1535	2.1575	2.1614	2.1652
2.1690	2.1727	2.1764	2.1800	2.1836	2.1871	2.1905
2.1940	2.1973	2.2007	2.2040	2.2072	2.2104	2.2136
2.2167	2.2198	2.2229	2.2260	2.2290	2.2320	2.2349
2.2378	2.2407	2.2436	2.2464	2.2492	2.2520	2.2548
2.2575	2.2602	2.2629	2.2656	2.2682	2.2709	2.2735
2.2760	2.2786	2.2811	2.2837	2.2862	2.2887	2.2911
2.2936	2.2960	2.2984	2.3008	2.3032	2.3056	2.3079
2.3103	2.3126	2.3149	2.3172	2.3195	2.3218	2.3240
2.3262	2.3285	2.3307	2.3329	2.3351	2.3372	2.3394
2.3415	2.3437	2.3458	2.3479	2.3500	2.3521	2.3542
2.3563	2.3583	2.3604	2.3624	2.3644	2.3664	2.3685
2.3705	2.3724	2.3744	2.3764	2.3783	2.3803	2.3822
2.3842	2.3861	2.3880	2.3899	2.3918	2.3937	2.3956
2.3974	2.3993	2.4012	2.4030	2.4049	2.4067	2.4085

*

*

* **** BASIN 101 **** (Area=0.806 Acres)

*

COMPUTE NM HYD

ID=1	HYD=1	DA=.0012590	SQ MI
PER A=0	B=61	C=0	D=39
TP=0.13333	HRS	RAIN=-1	

7.106420 K = .072665HR TP = .133330HR K/TP RATIO = .545000 SHAPE CONSTANT, N =
 1.8400 UNIT PEAK = 1.9381 CFS UNIT VOLUME = .9940 B = 526.28 P60 =
 AREA = .000491 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033000

3.578762 K = .131549HR TP = .133330HR K/TP RATIO = .986645 SHAPE CONSTANT, N =
 1.8400 UNIT PEAK = 1.8780 CFS UNIT VOLUME = .9927 B = 326.03 P60 =
 AREA = .000768 SQ MI IA = .50000 INCHES INF = 1.25000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033000

EX 1006.OUT

PRINT HYD ID=1 CODE=1

OUTFLOW HYDROGRAPH REACH 1.00

RUNOFF VOLUME = 1.28944 INCHES = .0866 ACRE-Feet
PEAK DISCHARGE RATE = 2.44 CFS AT 1.518 HOURS BASIN AREA = .0013 SQ. MI.

*
* **** BASIN 102 **** (Area=1.4828 Acres)
*

COMPUTE NM HYD ID=2 HYD=2 DA=.0023168 SQ MI
PER A=0 B=0 C=41.9 D=58.1
TP=0.13333 HRS RAIN=-1

7.106420 K = .072665HR TP = .133330HR K/TP RATIO = .545000 SHAPE CONSTANT, N =
1.8400 UNIT PEAK = 5.3131 CFS UNIT VOLUME = .9972 B = 526.28 P60 =
AREA = .001346 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033000

4.531123 K = .105552HR TP = .133330HR K/TP RATIO = .791661 SHAPE CONSTANT, N =
1.8400 UNIT PEAK = 2.8333 CFS UNIT VOLUME = .9961 B = 389.14 P60 =
AREA = .000971 SQ MI IA = .35000 INCHES INF = .83000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033000

PRINT HYD ID=2 CODE=1

OUTFLOW HYDROGRAPH REACH 2.00

RUNOFF VOLUME = 1.69537 INCHES = .2095 ACRE-Feet
PEAK DISCHARGE RATE = 5.54 CFS AT 1.518 HOURS BASIN AREA = .0023 SQ. MI.

*
* **** BASIN 103 **** (Area=0.4082 Acres)
*

COMPUTE NM HYD ID=3 HYD=3 DA=.0006377 SQ MI
PER A=0 B=0 C=34.3 D=65.7
TP=0.13333 HRS RAIN=-1

7.106420 K = .072665HR TP = .133330HR K/TP RATIO = .545000 SHAPE CONSTANT, N =
1.8400 UNIT PEAK = 1.6537 CFS UNIT VOLUME = .9920 B = 526.28 P60 =
AREA = .000419 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033000

4.531123 K = .105552HR TP = .133330HR K/TP RATIO = .791661 SHAPE CONSTANT, N =
1.8400 UNIT PEAK = .63840 CFS UNIT VOLUME = .9798 B = 389.14 P60 =
AREA = .000219 SQ MI IA = .35000 INCHES INF = .83000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033000

PRINT HYD ID=3 CODE=1

OUTFLOW HYDROGRAPH REACH 3.00

RUNOFF VOLUME = 1.77845 INCHES = .0605 ACRE-Feet
PEAK DISCHARGE RATE = 1.58 CFS AT 1.518 HOURS BASIN AREA = .0006 SQ. MI.

*
* **** BASIN 104 **** (Area=.7083 Acres)
*

COMPUTE NM HYD ID=4 HYD=4 DA=.0011067 SQ MI
PER A=0 B=0 C=0 D=100
TP=0.13333 HRS RAIN=-1

7.106420 K = .072665HR TP = .133330HR K/TP RATIO = .545000 SHAPE CONSTANT, N =

EX 1006.OUT
1.8400 UNIT PEAK = 4.3683 CFS UNIT VOLUME = .9969 B = 526.28 P60 =
AREA = .001107 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033000

PRINT HYD ID=4 CODE=1

OUTFLOW HYDROGRAPH REACH 4.00

RUNOFF VOLUME = 2.15343 INCHES = .1271 ACRE-FEET
PEAK DISCHARGE RATE = 3.03 CFS AT 1.518 HOURS BASIN AREA = .0011 SQ. MI.

*
* ***** BASIN 105 ***** (Area=2.1217 Acres)
*

COMPUTE NM HYD ID=5 HYD=5 DA=.0033152 SQ MI
PER A=0 B=68 C=16.2 D=15.8
TP=0.13333 HRS RAIN=-1

7.106420 K = .072665HR TP = .133330HR K/TP RATIO = .545000 SHAPE CONSTANT, N =
1.8400 UNIT PEAK = 2.0675 CFS UNIT VOLUME = .9940 B = 526.28 P60 =
AREA = .000524 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033000

3.724127 K = .126548HR TP = .133330HR K/TP RATIO = .949130 SHAPE CONSTANT, N =
1.8400 UNIT PEAK = 7.0416 CFS UNIT VOLUME = .9983 B = 336.34 P60 =
AREA = .002791 SQ MI IA = .47114 INCHES INF = 1.16919 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033000

PRINT HYD ID=5 CODE=1

OUTFLOW HYDROGRAPH REACH 5.00

RUNOFF VOLUME = 1.00516 INCHES = .1777 ACRE-FEET
PEAK DISCHARGE RATE = 5.64 CFS AT 1.518 HOURS BASIN AREA = .0033 SQ. MI.

*
* ***** BASIN 106 ***** (Area=0.1578 Acres)
*

COMPUTE NM HYD ID=6 HYD=6 DA=.0002465 SQ MI
PER A=0 B=0 C=0 D=100
TP=0.13333 HRS RAIN=-1

7.106420 K = .072665HR TP = .133330HR K/TP RATIO = .545000 SHAPE CONSTANT, N =
1.8400 UNIT PEAK = .97298 CFS UNIT VOLUME = .9877 B = 526.28 P60 =
AREA = .000246 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033000

PRINT HYD ID=6 CODE=1

OUTFLOW HYDROGRAPH REACH 6.00

RUNOFF VOLUME = 2.15343 INCHES = .0283 ACRE-FEET
PEAK DISCHARGE RATE = .68 CFS AT 1.518 HOURS BASIN AREA = .0002 SQ. MI.

*
* ***** BASIN 107 ***** (Area=1.1267 Acres)
*

COMPUTE NM HYD ID=7 HYD=7 DA=.0017604 SQ MI
PER A=0 B=0 C=11.5 D=88.5
TP=0.13333 HRS RAIN=-1

7.106420 K = .072665HR TP = .133330HR K/TP RATIO = .545000 SHAPE CONSTANT, N =
1.8400 UNIT PEAK = 6.1495 CFS UNIT VOLUME = .9976 B = 526.28 P60 =
AREA = .001558 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033000

EX 1006.OUT

4.531123 K = .105552HR TP = .133330HR K/TP RATIO = .791661 SHAPE CONSTANT, N =
 1.8400 UNIT PEAK = .59087 CFS UNIT VOLUME = .9775 B = 389.14 P60 =
 AREA = .000202 SQ MI IA = .35000 INCHES INF = .83000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033000

PRINT HYD ID=7 CODE=1

OUTFLOW HYDROGRAPH REACH 7.00

RUNOFF VOLUME = 2.02770 INCHES = .1904 ACRE-FEET
 PEAK DISCHARGE RATE = 4.66 CFS AT 1.518 HOURS BASIN AREA = .0018 SQ. MI.

*
 * **** BASIN 108 **** (Area=1.69 Acres)
 *

COMPUTE NM HYD ID=8 HYD=8 DA=.0026406 SQ MI
 PER A=0 B=0 C=34.9 D=65.1
 TP=0.13333 HRS RAIN=-1

7.106420 K = .072665HR TP = .133330HR K/TP RATIO = .545000 SHAPE CONSTANT, N =
 1.8400 UNIT PEAK = 6.7853 CFS UNIT VOLUME = .9978 B = 526.28 P60 =
 AREA = .001719 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033000

4.531123 K = .105552HR TP = .133330HR K/TP RATIO = .791661 SHAPE CONSTANT, N =
 1.8400 UNIT PEAK = 2.6897 CFS UNIT VOLUME = .9956 B = 389.14 P60 =
 AREA = .000922 SQ MI IA = .35000 INCHES INF = .83000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033000

PRINT HYD ID=8 CODE=1

OUTFLOW HYDROGRAPH REACH 8.00

RUNOFF VOLUME = 1.77189 INCHES = .2495 ACRE-FEET
 PEAK DISCHARGE RATE = 6.46 CFS AT 1.518 HOURS BASIN AREA = .0026 SQ. MI.

*
 * **** BASIN 109 **** (Area=1.049 Acres)
 *

COMPUTE NM HYD ID=9 HYD=9 DA=.0015625 SQ MI
 PER A=0 B=0 C=44.1 D=55.9
 TP=0.13333 HRS RAIN=-1

7.106420 K = .072665HR TP = .133330HR K/TP RATIO = .545000 SHAPE CONSTANT, N =
 1.8400 UNIT PEAK = 3.4476 CFS UNIT VOLUME = .9960 B = 526.28 P60 =
 AREA = .000873 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033000

4.531123 K = .105552HR TP = .133330HR K/TP RATIO = .791661 SHAPE CONSTANT, N =
 1.8400 UNIT PEAK = 2.0111 CFS UNIT VOLUME = .9939 B = 389.14 P60 =
 AREA = .000689 SQ MI IA = .35000 INCHES INF = .83000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033000

PRINT HYD ID=9 CODE=1

OUTFLOW HYDROGRAPH REACH 9.00

RUNOFF VOLUME = 1.67132 INCHES = .1393 ACRE-FEET
 PEAK DISCHARGE RATE = 3.71 CFS AT 1.518 HOURS BASIN AREA = .0016 SQ. MI.

*

EX 1006.OUT

*

FINISH

NORMAL PROGRAM FINISH

END TIME (HR:MIN:SEC) = 09:35:58

Proposed Conditions

*S Regional Drainage Master Plan
 *S PROPOSED CONDITIONS MODEL
 *S Purpose of Run is for Confirming Flows for Inez Elementary School's Proposed Conditions.

START TIME=0.0 PUNCH CODE=0 PRINT CODE=0
 LOCATION ALBUQUERQUE

*S*****

*S 100 YEAR 6HR STORM PROPOSED CONDITIONS
 RAINFALL TYPE=1 ONE DAY RAINFALL, NOAA ATLAS TWO
 QUARTER=1.10 IN
 HOUR= 1.84 IN
 SIX HR= 2.41 IN
 DAY= 2.82 IN DT=0.033

*
 *
 * **** BASIN 201 **** (Area=0.806 Acres)

COMPUTE NM HYD ID=1 HYD=1 DA=.0012590 SQ MI
 PER A=0 B=61 C=0 D=39
 TP=0.13333 HRS RAIN=-1
 PRINT HYD ID=1 CODE=1

* **** BASIN 202 **** (Area=1.4828 Acres)

COMPUTE NM HYD ID=2 HYD=2 DA=.0023168 SQ MI
 PER A=0 B=0 C=37.9 D=62.1
 TP=0.13333 HRS RAIN=-1
 PRINT HYD ID=2 CODE=1

* **** BASIN 203 **** (Area=0.4082 Acres)

COMPUTE NM HYD ID=3 HYD=3 DA=.0006377 SQ MI
 PER A=0 B=0 C=34.3 D=65.7
 TP=0.13333 HRS RAIN=-1
 PRINT HYD ID=3 CODE=1

* **** BASIN 204 **** (Area=.7083 Acres)

COMPUTE NM HYD ID=4 HYD=4 DA=.0011067 SQ MI
 PER A=0 B=0 C=0 D=100
 TP=0.13333 HRS RAIN=-1
 PRINT HYD ID=4 CODE=1

* **** BASIN 205 **** (Area=2.1217 Acres)

COMPUTE NM HYD ID=5 HYD=5 DA=.0033152 SQ MI
 PER A=0 B=68 C=10.1 D=21.9
 TP=0.13333 HRS RAIN=-1
 PRINT HYD ID=5 CODE=1

* **** BASIN 206 **** (Area=0.1578 Acres)

COMPUTE NM HYD ID=6 HYD=6 DA=.0002465 SQ MI
 PER A=0 B=0 C=0 D=100
 TP=0.13333 HRS RAIN=-1
 PRINT HYD ID=6 CODE=1

* **** BASIN 207 **** (Area=1.1267 Acres)

COMPUTE NM HYD ID=7 HYD=7 DA=.0017604 SQ MI
 PER A=0 B=0 C=0 D=100
 TP=0.13333 HRS RAIN=-1
 PRINT HYD ID=7 CODE=1

* **** BASIN 208 **** (Area=1.69 Acres)

COMPUTE NM HYD ID=8 HYD=8 DA=.0026406 SQ MI
 PER A=0 B=0 C=0 D=100
 TP=0.13333 HRS RAIN=-1
 PRINT HYD ID=8 CODE=1

* **** BASIN 209 **** (Area=1.049 Acres)

COMPUTE NM HYD ID=9 HYD=9 DA=.0015625 SQ MI
 PER A=0 B=0 C=44.1 D=55.9
 TP=0.13333 HRS RAIN=-1
 PRINT HYD ID=9 CODE=1

* ****ADD BASINS 104 AND 105****
 ADD HYD ID=10 HYD=5.1 ID I=4 ID II=5

PROP 1006.txt

```

PRINT HYD          ID=10      CODE=1
** *****ADD BASINS 104,105 AND 109*****
ADD HYD            ID=11      HYD=5.1 ID I=10 ID II=9
PRINT HYD          ID=11      CODE=1
*
* *****ADD BASIN 108 TO 104, 105 AND 109*****
ADD HYD            ID=12      HYD=8.1 ID I=8  ID II=11
PRINT HYD          ID=12      CODE=1
*
* *****ADD BASIN 102 TO 105 AND 109, 108*****
ADD HYD            ID=13      HYD=2.1 ID I=2  ID II=12
PRINT HYD          ID=13      CODE=1
*
* *****ADD BASIN 107 TO 105 AND 109, 108, 107*****
ADD HYD            ID=14      HYD=AP.1 ID I=7 ID II=13
PRINT HYD          ID=14      CODE=1
*
FINISH

```

AHYMO PROGRAM SUMMARY TABLE (AHYMO_97) -
 INPUT FILE = M:\IDS\099323~1\AE_DATA\CALCS\AHYMO\PROP10~2.TXT

PROP 1006.SUM
 - VERSION: 1997.02c

RUN DATE (MON/DAY/YR) =10/28/2009
 USER NO.= AHYMO-C-9803c01UNMLIB-AH

COMMAND	HYDROGRAPH IDENTIFICATION	FROM ID NO.	TO ID NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	RUNOFF (INCHES)	TIME TO PEAK (HOURS)	CFS PER ACRE	PAGE = 1	NOTATION
*S Regional Drainage Master Plan											
*S PROPOSED CONDITIONS MODEL											
*S Purpose of Run is for Confirming Flows for Inez Elementary School's Proposed											
START											
LOCATION ALBUQUERQUE											
*S*****											
*S 100 YEAR 6HR STORM PROPOSED CONDITIONS											
RAINFALL TYPE= 1											
COMPUTE NM HYD	1.00	-	1	.00126	2.44	.087	1.28944	1.518	3.033	RAIN6= 2.410	
COMPUTE NM HYD	2.00	-	2	.00232	5.62	.215	1.73910	1.518	3.787	PER IMP= 39.00	
COMPUTE NM HYD	3.00	-	3	.00064	1.58	.060	1.77845	1.518	3.866	PER IMP= 62.10	
COMPUTE NM HYD	4.00	-	4	.00111	3.03	.127	2.15343	1.518	4.281	PER IMP= 65.70	
COMPUTE NM HYD	5.00	-	5	.00332	5.81	.190	1.07465	1.518	4.281	PER IMP= 100.00	
COMPUTE NM HYD	6.00	-	6	.00025	.68	.028	2.15343	1.518	2.741	PER IMP= 21.90	
COMPUTE NM HYD	7.00	-	7	.00176	4.82	.202	2.15343	1.518	4.320	PER IMP= 100.00	
COMPUTE NM HYD	8.00	-	8	.00264	7.22	.303	2.15343	1.518	4.277	PER IMP= 100.00	
COMPUTE NM HYD	9.00	-	9	.00156	3.71	.139	2.15343	1.518	4.275	PER IMP= 100.00	
ADD HYD	5.10	4& 5	10	.00442	8.85	.317	1.67132	1.518	3.713	PER IMP= 55.90	
ADD HYD	5.10	10& 9	11	.00598	12.56	.456	1.34453	1.518	3.126		
ADD HYD	8.10	8&11	12	.00863	19.78	.760	1.42981	1.518	3.279		
ADD HYD	2.10	2&12	13	.01094	25.40	.974	1.65132	1.518	3.584		
ADD HYD	AP.1	7&13	14	.01270	30.22	1.177	1.66988	1.518	3.627		
FINISH							1.73687	1.518	3.717		

PROP 1006.OUT

AHYMO PROGRAM (AHYMO_97) -

- Version: 1997.02c

RUN DATE (MON/DAY/YR) = 10/28/2009

START TIME (HR:MIN:SEC) = 09:35:35

USER NO.= AHYMO-C-9803C01UNMLIB-AH

INPUT FILE = M:\IDS\099323~1\AE_DATA\CALCS\AHYMO\PROP10~2.TXT

*S Regional Drainage Master Plan

*S PROPOSED CONDITIONS MODEL

*S Purpose of Run is for Confirming Flows for Inez Elementary School's Proposed

*

*

START TIME=0.0 PUNCH CODE=0 PRINT CODE=0

LOCATION ALBUQUERQUE

City of Albuquerque soil infiltration values (LAND FACTORS) used for computations.

Land Treatment	Initial Abstr.(in)	Unif. Infiltr.(in/hour)
A	0.65	1.67
B	0.50	1.25
C	0.35	0.83
D	0.10	0.04

*

*

*S*****

*S 100 YEAR 6HR STORM PROPOSED CONDITIONS

RAINFALL

TYPE=1 ONE DAY RAINFALL, NOAA ATLAS TWO
 QUARTER=1.10 IN
 HOUR= 1.84 IN
 SIX HR= 2.41 IN
 DAY= 2.82 IN DT=0.033

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

HR.

DT = .033000 HOURS			END TIME = 5.973000 HOURS			
.0000	.0047	.0096	.0145	.0195	.0246	.0298
.0352	.0406	.0462	.0519	.0578	.0638	.0700
.0763	.0828	.0895	.0963	.1034	.1107	.1183
.1261	.1341	.1425	.1512	.1602	.1697	.1795
.1898	.2007	.2121	.2191	.2244	.2300	.2378
.2612	.2981	.3520	.4267	.5258	.6533	.8131
1.0092	1.2458	1.3517	1.4258	1.4907	1.5493	1.6031
1.6529	1.6993	1.7428	1.7837	1.8222	1.8586	1.8930
1.9256	1.9566	1.9859	2.0138	2.0403	2.0583	2.0648
2.0710	2.0770	2.0828	2.0885	2.0939	2.0992	2.1043
2.1093	2.1142	2.1189	2.1236	2.1281	2.1326	2.1369
2.1412	2.1454	2.1495	2.1535	2.1575	2.1614	2.1652
2.1690	2.1727	2.1764	2.1800	2.1836	2.1871	2.1905
2.1940	2.1973	2.2007	2.2040	2.2072	2.2104	2.2136
2.2167	2.2198	2.2229	2.2260	2.2290	2.2320	2.2349
2.2378	2.2407	2.2436	2.2464	2.2492	2.2520	2.2548
2.2575	2.2602	2.2629	2.2656	2.2682	2.2709	2.2735
2.2760	2.2786	2.2811	2.2837	2.2862	2.2887	2.2911
2.2936	2.2960	2.2984	2.3008	2.3032	2.3056	2.3079
2.3103	2.3126	2.3149	2.3172	2.3195	2.3218	2.3240
2.3262	2.3285	2.3307	2.3329	2.3351	2.3372	2.3394
2.3415	2.3437	2.3458	2.3479	2.3500	2.3521	2.3542
2.3563	2.3583	2.3604	2.3624	2.3644	2.3664	2.3685
2.3705	2.3724	2.3744	2.3764	2.3783	2.3803	2.3822
2.3842	2.3861	2.3880	2.3899	2.3918	2.3937	2.3956
2.3974	2.3993	2.4012	2.4030	2.4049	2.4067	2.4085

*

*

* **** BASIN 201 **** (Area=0.806 Acres)

*

COMPUTE NM HYD ID=1 HYD=1 DA=.0012590 SQ MI
 PER A=0 B=61 C=0 D=39
 TP=0.13333 HRS RAIN=-1

7.106420 K = .072665HR TP = .133330HR K/TP RATIO = .545000 SHAPE CONSTANT, N =
 1.8400 UNIT PEAK = 1.9381 CFS UNIT VOLUME = .9940 B = 526.28 P60 =
 AREA = .000491 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033000

3.578762 K = .131549HR TP = .133330HR K/TP RATIO = .986645 SHAPE CONSTANT, N =
 1.8400 UNIT PEAK = 1.8780 CFS UNIT VOLUME = .9927 B = 326.03 P60 =
 AREA = .000768 SQ MI IA = .50000 INCHES INF = 1.25000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033000

PRINT HYD

ID=1

CODE=1

OUTFLOW HYDROGRAPH REACH

1.00

RUNOFF VOLUME = 1.28944 INCHES = .0866 ACRE-FEET
 PEAK DISCHARGE RATE = 2.44 CFS AT 1.518 HOURS BASIN AREA = .0013 SQ. MI.

*

* **** BASIN 202 **** (Area=1.4828 Acres)

*

COMPUTE NM HYD

ID=2 HYD=2 DA=.0023168 SQ MI
 PER A=0 B=0 C=37.9 D=62.1
 TP=0.13333 HRS RAIN=-1

7.106420 K = .072665HR TP = .133330HR K/TP RATIO = .545000 SHAPE CONSTANT, N =
 1.8400 UNIT PEAK = 5.6789 CFS UNIT VOLUME = .9976 B = 526.28 P60 =
 AREA = .001439 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033000

4.531123 K = .105552HR TP = .133330HR K/TP RATIO = .791661 SHAPE CONSTANT, N =
 1.8400 UNIT PEAK = 2.5628 CFS UNIT VOLUME = .9956 B = 389.14 P60 =
 AREA = .000878 SQ MI IA = .35000 INCHES INF = .83000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033000

PRINT HYD

ID=2

CODE=1

OUTFLOW HYDROGRAPH REACH

2.00

RUNOFF VOLUME = 1.73910 INCHES = .2149 ACRE-FEET
 PEAK DISCHARGE RATE = 5.62 CFS AT 1.518 HOURS BASIN AREA = .0023 SQ. MI.

*

* **** BASIN 203 **** (Area=0.4082 Acres)

*

COMPUTE NM HYD

ID=3 HYD=3 DA=.0006377 SQ MI
 PER A=0 B=0 C=34.3 D=65.7
 TP=0.13333 HRS RAIN=-1

7.106420 K = .072665HR TP = .133330HR K/TP RATIO = .545000 SHAPE CONSTANT, N =
 1.8400 UNIT PEAK = 1.6537 CFS UNIT VOLUME = .9920 B = 526.28 P60 =
 AREA = .000419 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033000

4.531123 K = .105552HR TP = .133330HR K/TP RATIO = .791661 SHAPE CONSTANT, N =
 1.8400 UNIT PEAK = .63840 CFS UNIT VOLUME = .9798 B = 389.14 P60 =
 AREA = .000219 SQ MI IA = .35000 INCHES INF = .83000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033000

PRINT HYD

ID=3

CODE=1

OUTFLOW HYDROGRAPH REACH

3.00

RUNOFF VOLUME = 1.77845 INCHES = .0605 ACRE-FEET
 PEAK DISCHARGE RATE = 1.58 CFS AT 1.518 HOURS BASIN AREA = .0006 SQ. MI.

*

* **** BASIN 204 **** (Area=.7083 Acres)

*

COMPUTE NM HYD

ID=4 HYD=4 DA=.0011067 SQ MI
 PER A=0 B=0 C=0 D=100
 TP=0.13333 HRS RAIN=-1

7.106420 K = .072665HR TP = .133330HR K/TP RATIO = .545000 SHAPE CONSTANT, N =

PROP 1006.OUT
UNIT PEAK = 4.3683 CFS UNIT VOLUME = .9969 B = 526.28 P60 =
1.8400
AREA = .001107 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033000

PRINT HYD ID=4 CODE=1

OUTFLOW HYDROGRAPH REACH 4.00

RUNOFF VOLUME = 2.15343 INCHES = .1271 ACRE-FEET
PEAK DISCHARGE RATE = 3.03 CFS AT 1.518 HOURS BASIN AREA = .0011 SQ. MI.

*
* **** BASIN 205 **** (Area=2.1217 Acres)
*

COMPUTE NM HYD ID=5 HYD=5 DA=.0033152 SQ MI
PER A=0 B=68 C=10.1 D=21.9
TP=0.13333 HRS RAIN=-1

K = .072665HR TP = .133330HR K/TP RATIO = .545000 SHAPE CONSTANT, N =
7.106420
UNIT PEAK = 2.8658 CFS UNIT VOLUME = .9954 B = 526.28 P60 =
1.8400
AREA = .000726 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033000

K = .128187HR TP = .133330HR K/TP RATIO = .961429 SHAPE CONSTANT, N =
3.674894
UNIT PEAK = 6.4643 CFS UNIT VOLUME = .9983 B = 332.88 P60 =
1.8400
AREA = .002589 SQ MI IA = .48060 INCHES INF = 1.19569 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033000

PRINT HYD ID=5 CODE=1

OUTFLOW HYDROGRAPH REACH 5.00

RUNOFF VOLUME = 1.07465 INCHES = .1900 ACRE-FEET
PEAK DISCHARGE RATE = 5.81 CFS AT 1.518 HOURS BASIN AREA = .0033 SQ. MI.

*
* **** BASIN 206 **** (Area=0.1578 Acres)
*

COMPUTE NM HYD ID=6 HYD=6 DA=.0002465 SQ MI
PER A=0 B=0 C=0 D=100
TP=0.13333 HRS RAIN=-1

K = .072665HR TP = .133330HR K/TP RATIO = .545000 SHAPE CONSTANT, N =
7.106420
UNIT PEAK = .97298 CFS UNIT VOLUME = .9877 B = 526.28 P60 =
1.8400
AREA = .000246 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033000

PRINT HYD ID=6 CODE=1

OUTFLOW HYDROGRAPH REACH 6.00

RUNOFF VOLUME = 2.15343 INCHES = .0283 ACRE-FEET
PEAK DISCHARGE RATE = .68 CFS AT 1.518 HOURS BASIN AREA = .0002 SQ. MI.

*
* **** BASIN 207 **** (Area=1.1267 Acres)
*

COMPUTE NM HYD ID=7 HYD=7 DA=.0017604 SQ MI
PER A=0 B=0 C=0 D=100
TP=0.13333 HRS RAIN=-1

K = .072665HR TP = .133330HR K/TP RATIO = .545000 SHAPE CONSTANT, N =
7.106420
UNIT PEAK = 6.9486 CFS UNIT VOLUME = .9978 B = 526.28 P60 =
1.8400
AREA = .001760 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033000

PROP 1006.OUT

PRINT HYD ID=7 CODE=1

OUTFLOW HYDROGRAPH REACH 7.00

RUNOFF VOLUME = 2.15343 INCHES = .2022 ACRE-FEET
 PEAK DISCHARGE RATE = 4.82 CFS AT 1.518 HOURS BASIN AREA = .0018 SQ. MI.

*
 * **** BASIN 208 **** (Area=1.69 Acres)
 *

COMPUTE NM HYD ID=8 HYD=8 DA=.0026406 SQ MI
 PER A=0 B=0 C=0 D=100
 TP=0.13333 HRS RAIN=-1

7.106420 K = .072665HR TP = .133330HR K/TP RATIO = .545000 SHAPE CONSTANT, N =
 1.8400 UNIT PEAK = 10.423 CFS UNIT VOLUME = .9984 B = 526.28 P60 =
 AREA = .002641 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033000

PRINT HYD ID=8 CODE=1

OUTFLOW HYDROGRAPH REACH 8.00

RUNOFF VOLUME = 2.15343 INCHES = .3033 ACRE-FEET
 PEAK DISCHARGE RATE = 7.22 CFS AT 1.518 HOURS BASIN AREA = .0026 SQ. MI.

*
 * **** BASIN 209 **** (Area=1.049 Acres)
 *

COMPUTE NM HYD ID=9 HYD=9 DA=.0015625 SQ MI
 PER A=0 B=0 C=44.1 D=55.9
 TP=0.13333 HRS RAIN=-1

7.106420 K = .072665HR TP = .133330HR K/TP RATIO = .545000 SHAPE CONSTANT, N =
 1.8400 UNIT PEAK = 3.4476 CFS UNIT VOLUME = .9960 B = 526.28 P60 =
 AREA = .000873 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033000

4.531123 K = .105552HR TP = .133330HR K/TP RATIO = .791661 SHAPE CONSTANT, N =
 1.8400 UNIT PEAK = 2.0111 CFS UNIT VOLUME = .9939 B = 389.14 P60 =
 AREA = .000689 SQ MI IA = .35000 INCHES INF = .83000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033000

PRINT HYD ID=9 CODE=1

OUTFLOW HYDROGRAPH REACH 9.00

RUNOFF VOLUME = 1.67132 INCHES = .1393 ACRE-FEET
 PEAK DISCHARGE RATE = 3.71 CFS AT 1.518 HOURS BASIN AREA = .0016 SQ. MI.

*
 * ****ADD BASINS 104 AND 105****

ADD HYD ID=10 HYD=5.1 ID I=4 ID II=5
 PRINT HYD ID=10 CODE=1

OUTFLOW HYDROGRAPH REACH 5.10

RUNOFF VOLUME = 1.34453 INCHES = .3171 ACRE-FEET
 PEAK DISCHARGE RATE = 8.85 CFS AT 1.518 HOURS BASIN AREA = .0044 SQ. MI.

** ****ADD BASINS 104,105 AND 109****

ADD HYD ID=11 HYD=5.1 ID I=10 ID II=9
 PRINT HYD ID=11 CODE=1

PROP 1006.OUT
OUTFLOW HYDROGRAPH REACH 5.10

RUNOFF VOLUME = 1.42981 INCHES = .4563 ACRE-FeET
PEAK DISCHARGE RATE = 12.56 CFS AT 1.518 HOURS BASIN AREA = .0060 SQ. MI.

*
* ****ADD BASIN 108 TO 104, 105 AND 109****
ADD HYD ID=12 HYD=8.1 ID I=8 ID II=11
PRINT HYD ID=12 CODE=1

OUTFLOW HYDROGRAPH REACH 8.10

RUNOFF VOLUME = 1.65132 INCHES = .7596 ACRE-FeET
PEAK DISCHARGE RATE = 19.78 CFS AT 1.518 HOURS BASIN AREA = .0086 SQ. MI.

*
* ****ADD BASIN 102 TO 105 AND 109, 108****
ADD HYD ID=13 HYD=2.1 ID I=2 ID II=12
PRINT HYD ID=13 CODE=1

OUTFLOW HYDROGRAPH REACH 2.10

RUNOFF VOLUME = 1.66988 INCHES = .9745 ACRE-FeET
PEAK DISCHARGE RATE = 25.40 CFS AT 1.518 HOURS BASIN AREA = .0109 SQ. MI.

*
* ****ADD BASIN 107 TO 105 AND 109, 108, 107****
ADD HYD ID=14 HYD=AP.1 ID I=7 ID II=13
PRINT HYD ID=14 CODE=1

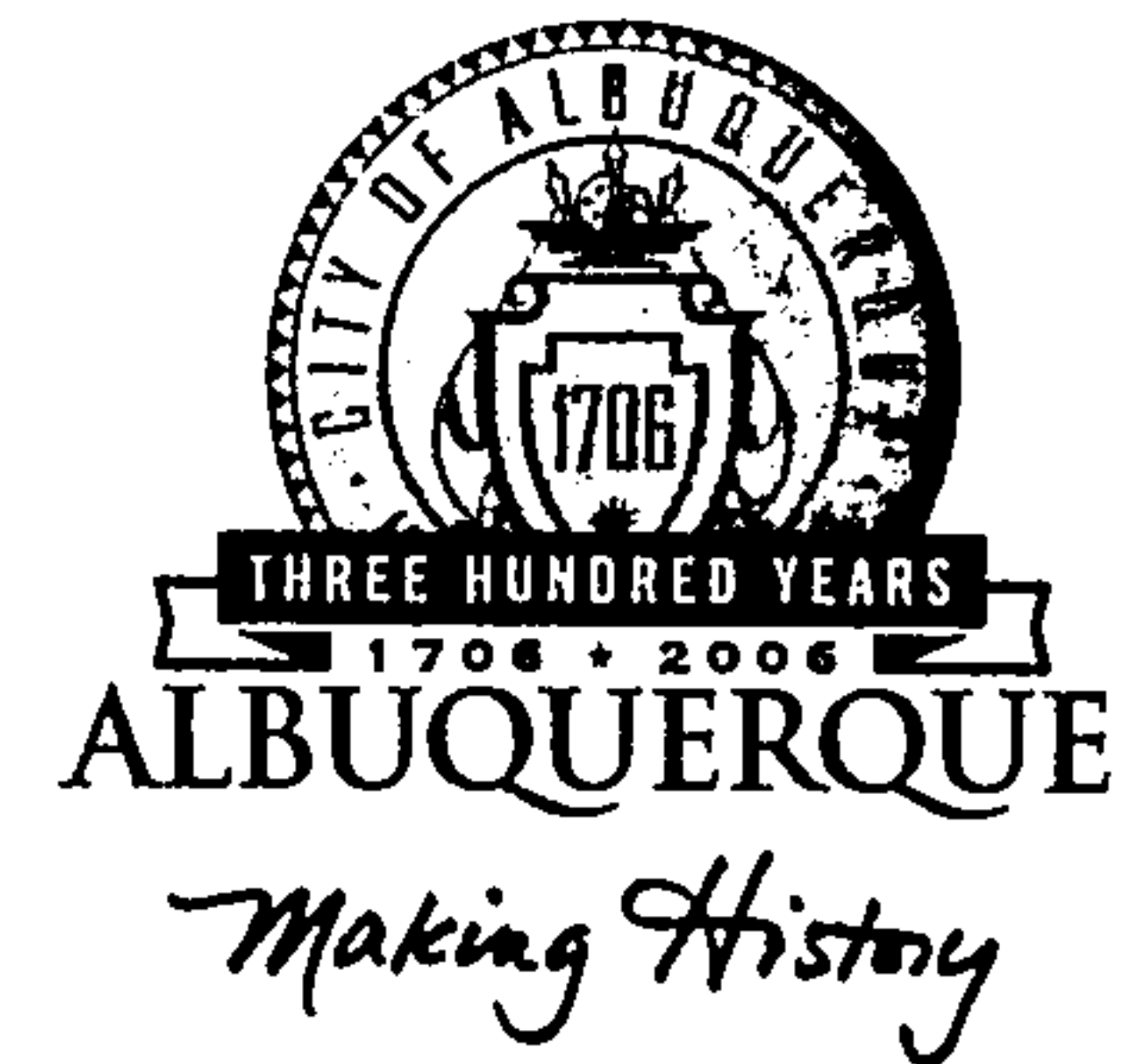
HYDROGRAPH FROM AREA AP.1

RUNOFF VOLUME = 1.73687 INCHES = 1.1766 ACRE-FeET
PEAK DISCHARGE RATE = 30.22 CFS AT 1.518 HOURS BASIN AREA = .0127 SQ. MI.

*
FINISH

NORMAL PROGRAM FINISH END TIME (HR:MIN:SEC) = 09:35:35

CITY OF ALBUQUERQUE



February 15, 2005

Mr. Jeffrey G. Mortensen, PE
JEFF MORTENSEN & ASSOCIATES
6010-B Midway Park Blvd. NE
Albuquerque, NM 87109

Re: INEZ ELEMENTARY KINDERGARTEN ADDN
1700 Pennsylvania St. NE
Approval of Permanent Certificate of Occupancy (C.O.)
Engineer's Stamp dated 02/23/2004 (J-19/D67)
Certification dated 02/14/2005

P.O. Box 1293

Dear Jeff,

Albuquerque

Based upon the information provided in your submittal received 02/14/2005, the above referenced certification is approved for release of Permanent Certificate of Occupancy by Hydrology.

New Mexico 87103

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

www.cabq.gov

Sincerely,

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

C: Phyllis Villanueva
File

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: INEZ ELEMENTARY KINDERGARTEN ZONE ATLAS/DRNG. FILE #: J19 D67
 DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: INEZ ELEMENTARY SCHOOL, LANDS OF ALBUQUERQUE PUBLIC SCHOOLS
 CITY ADDRESS: 1700 PENNSYLVANIA STREET NE

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 (DFPC) CONTACT: MYRON JOHNSON
 ADDRESS: 915 OAK STREET SE PHONE: 242-5865
 CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87106

ARCHITECT: ISAAC BENTON & ASSOCIATES CONTACT: DAVID FRIEDLANDER
 ADDRESS: 624 TIJERAS AVENUE NE PHONE: 243-3499
 CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87102

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: GEAR & CONDON CONTACT: RODNEY BLACK
 ADDRESS: 11728 LINN AVE NE PHONE: 507-0108
 CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87123

TYPE OF SUBMITTAL:

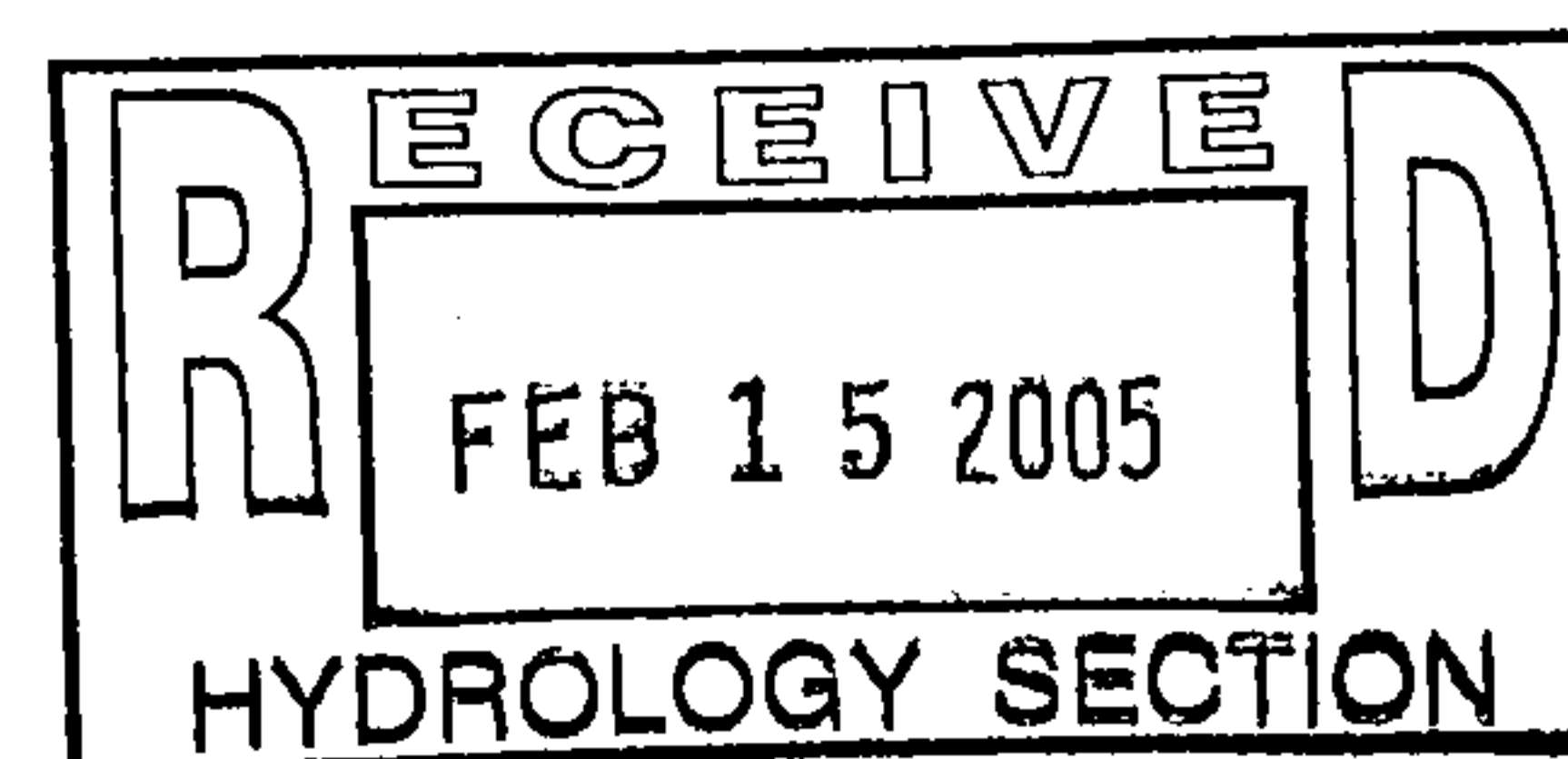
- ☐ DRAINAGE REPORT
☐ DRAINAGE PLAN 1st SUBMITTAL, *REQUIRES TCL or equal*
☐ DRAINAGE PLAN RESUBMITTAL
☐ CONCEPTUAL GRADING & DRAINAGE PLAN
☐ GRADING PLAN
☐ EROSION CONTROL PLAN
☒ ENGINEER'S CERTIFICATION (HYDROLOGY)
☐ CLOMR/LOMR
☐ TRAFFIC CIRCULATION LAYOUT (TCL)
☐ ENGINEER'S CERTIFICATION (TCL)
☐ ENGINEER'S CERTIFICATION (DRB APPR. SITE PLAN)
☒ OTHER (ADDITION TO EXISTING APS FACILITY)

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: 02/15/2005 BY: JEFFREY G. MORTENSEN

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

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



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

April 13, 2004

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

Re: Inez Elementary School, 1700 Pennsylvania St NE, Grading and Drainage Plan

Engineer's Stamp dated 2-23-04 (J19/D67)

Dear Mr. Mortensen,

Based upon the information provided in your submittal received 2-23-04, 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.

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: File

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: INEZ ELEMENTARY KINDERGARTEN ZONE ATLAS/DRNG. FILE #: J19 D67
 DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: INEZ ELEMENTARY SCHOOL, LANDS OF ALBUQUERQUE PUBLIC SCHOOLS
 CITY ADDRESS: 1700 PENNSYLVANIA STREET NE

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 (DFPC) CONTACT: MYRON JOHNSON
 ADDRESS: 915 OAK STREET SE PHONE: 242-5865
 CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87106

ARCHITECT: ISAAC BENTON & ASSOCIATES CONTACT: IKE BENTON
 ADDRESS: 624 TIJERAS AVENUE NE PHONE: 243-3499
 CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87102

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: NOT SELECTED CONTACT: _____
 ADDRESS: _____ PHONE: _____
 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 (ADDITION TO EXISTING APS FACILITY)

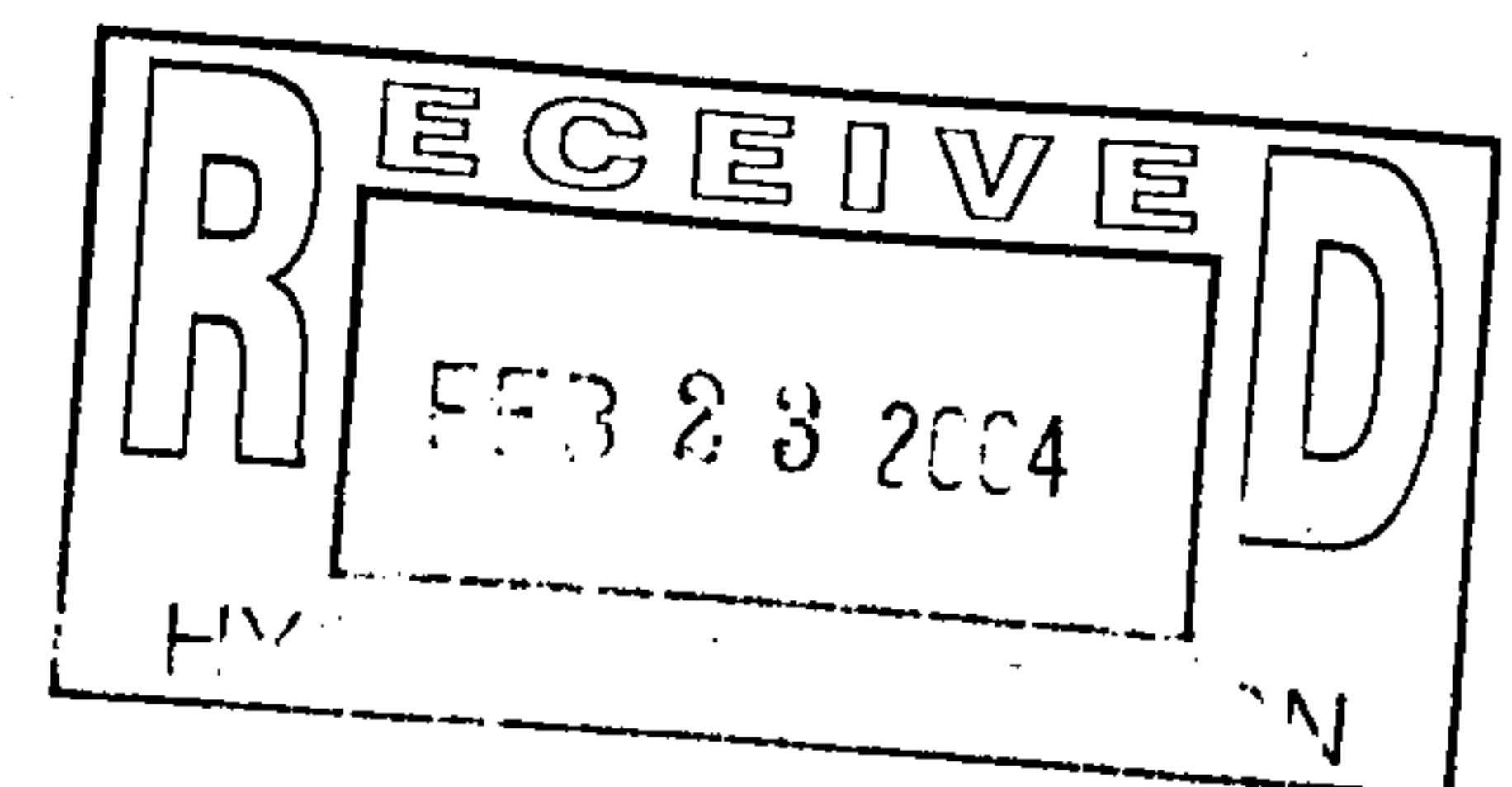
CHECK TYPE OF APPROVAL SOUGHT:

- ☐ 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: 02/23/2004 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.



J-19/D67
City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

May 25, 2000

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

RE: INEZ ELEMENTARY SCHOOL COURTYARD (J19-D67). GRADING AND DRAINAGE PLAN FOR GRADING PERMIT, PAVING PERMIT, AND SO#19 PERMIT APPROVALS. ENGINEER'S STAMP DATED May 22, 2001.

Dear Mr. Mortenson:

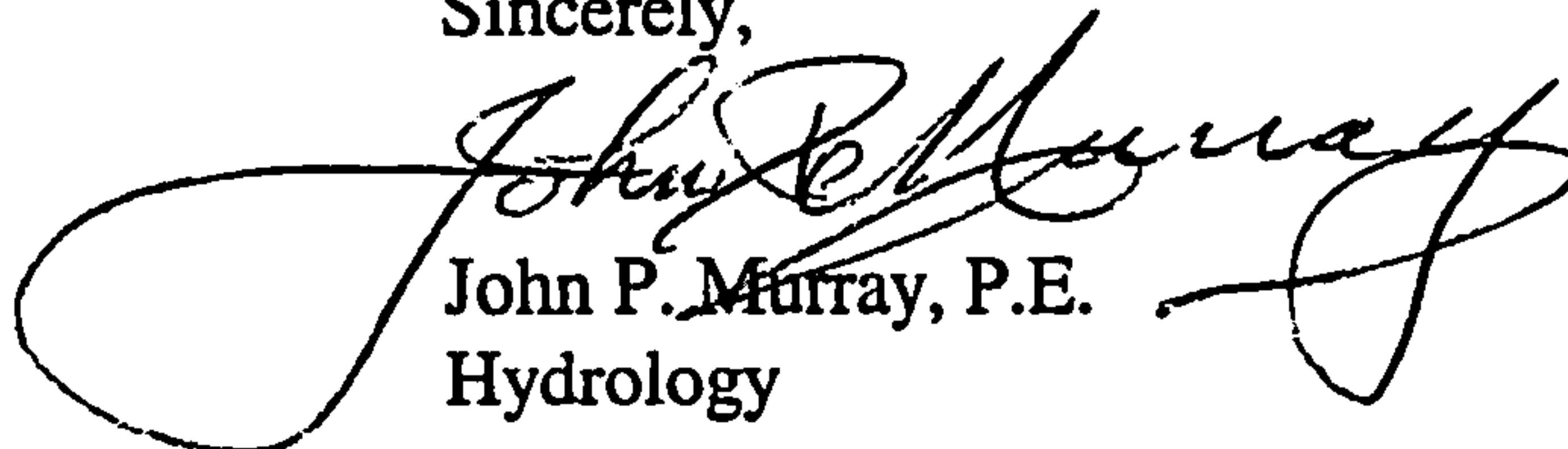
Based on the information provided on your May 22, 2001 submittal, the above referenced project is approved for Grading, Paving, and SO#19 Permits.

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

A separate permit is required for construction in the City right-of-way. A copy of this approval letter must be on hand when applying for the excavation permit, ***Please note that only the Inspector's signature is now required for the SO#19.***

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

Sincerely,


John P. Murray, P.E.
Hydrology

c: Terri Martin
File
✓ Paul Lujan

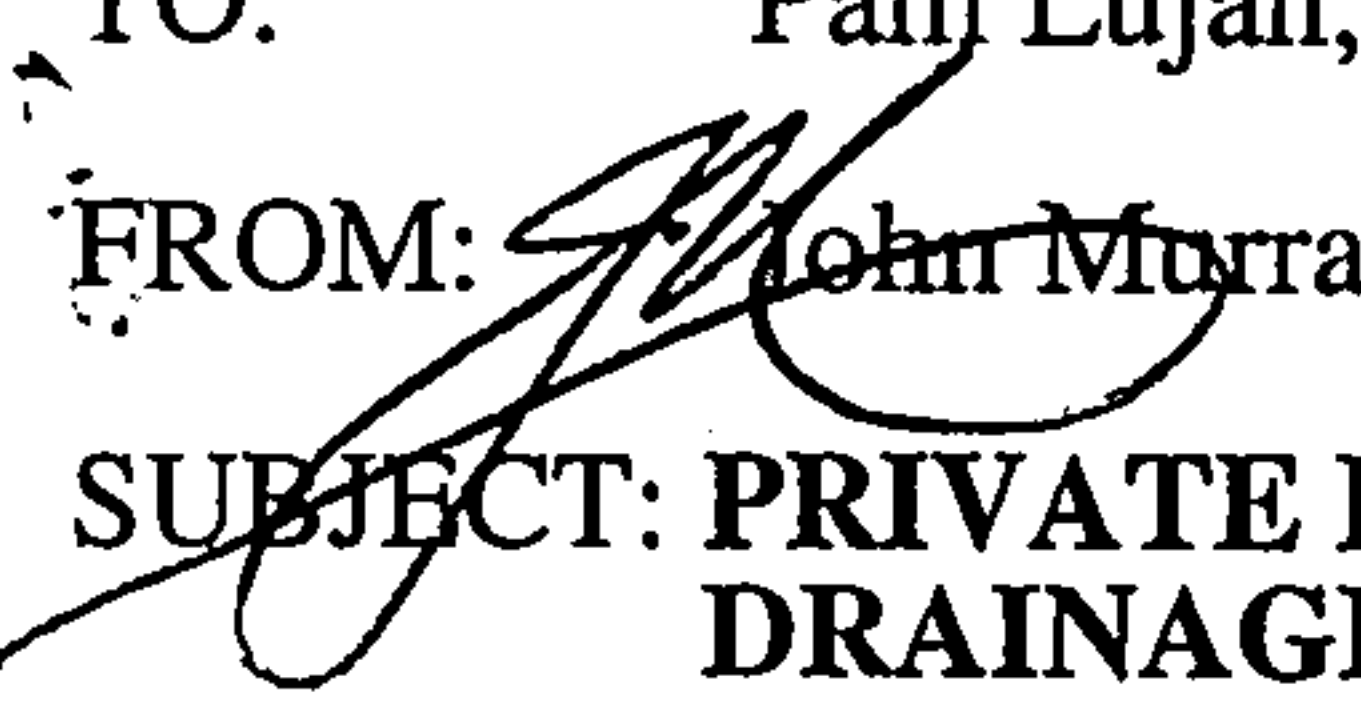
PUBLIC WORKS DEPARTMENT

MAY 25, 2001

INTEROFFICE CORRESPONDENCE

HYDROLOGY DIVISION

TO: Pam Lujan, Permits

FROM:  John Murray, Hydrology, PWD

SUBJECT: **PRIVATE DRAINAGE FACILITIES WITHIN PUBLIC RIGHT-OF-WAY
DRAINAGE FILE NUMBER (J19-D67). INEZ ELEMENTARY SCHOOL @
Indian School & Pennsylvania NE.**

*Completed
Long as
May 02*

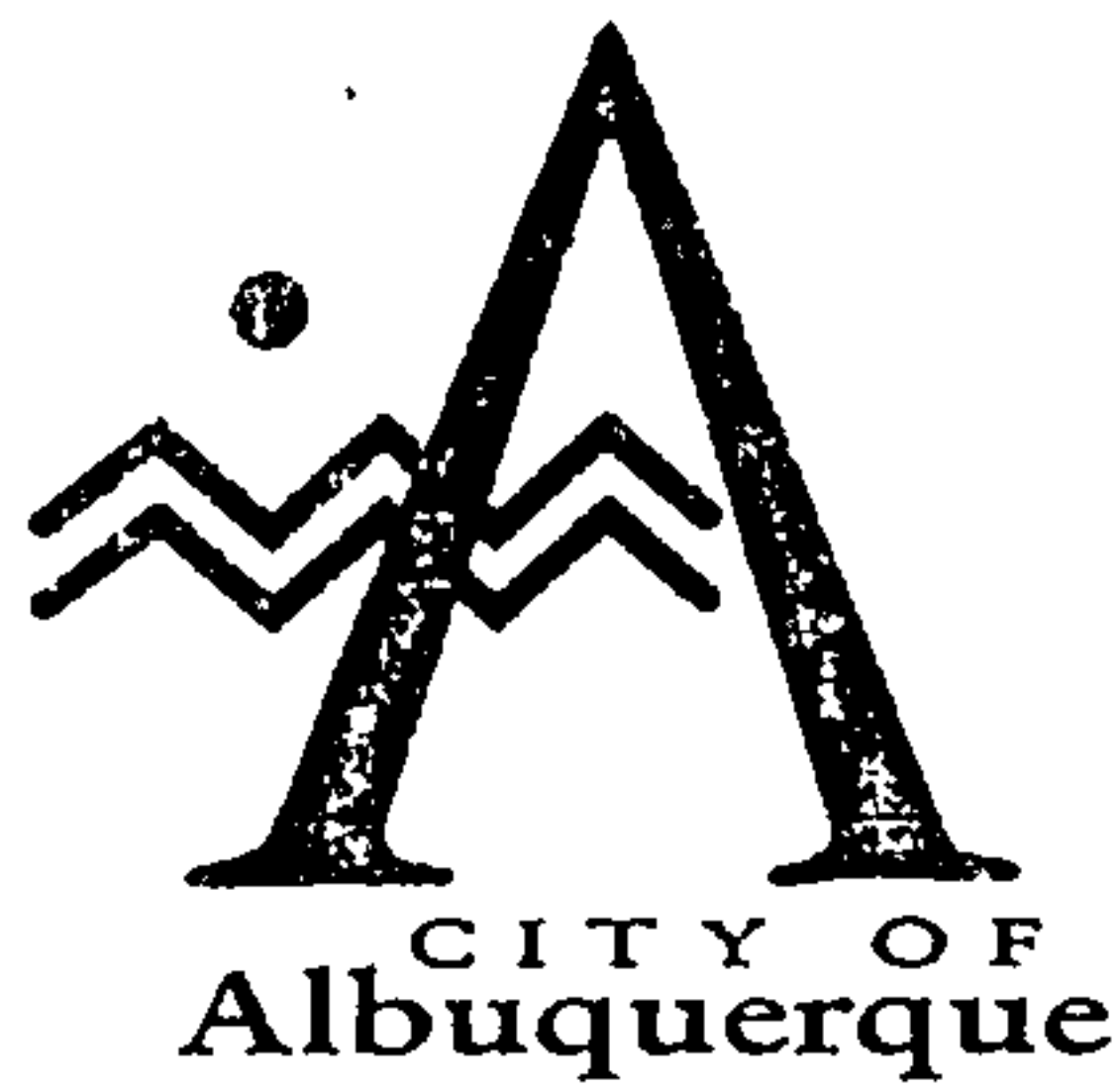
Transmitted herewith is a copy of the approved drainage plan for the referenced project incorporating the SO #19 design.

This plan is being submitted to you for permitting and inspection. Please provide this section with a signed-off copy per the signature block upon construction and acceptance by your office.

As you are aware, the signed off SO #19 is required by this office for Certificate of Occupancy release; therefore your expeditious processing of this plan would be greatly appreciated and would avoid any unnecessary delay in the release of the Certificate of Occupancy.

Thank you for your cooperation and if you should have any questions and/or comments, please feel free to call me at 924-3984.

Attachment



September 25, 1998

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

RE: ENGINEER CERTIFICATION FOR INEZ ELEMENTARY SCHOOL (J19-D67)
CERTIFICATION STATEMENT DATED 8/28/98

Dear Mr. Mortensen:

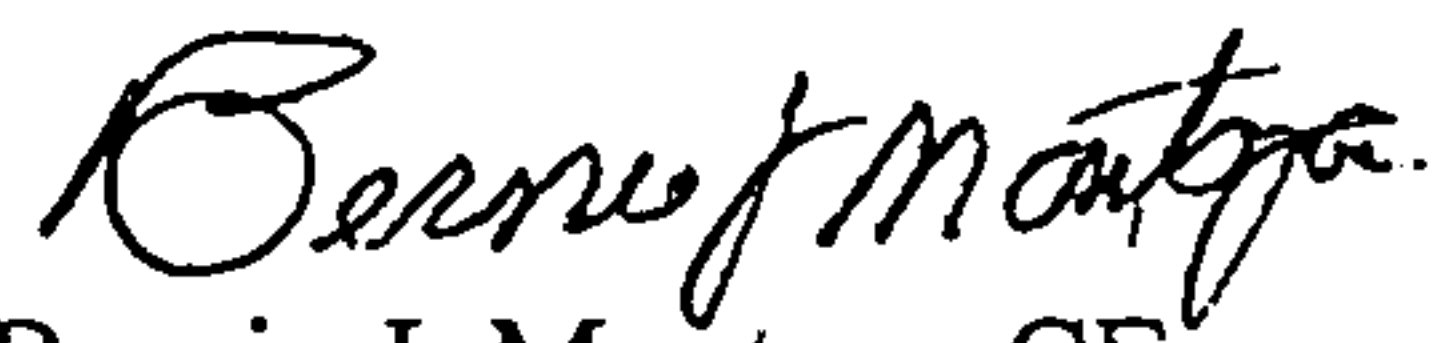
Based on the information provided on your August 28, 1998 submittal, Engineer Certification for the above referenced site is acceptable.

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

C: Andrew Garcia

File

Sincerely


Bernie J. Montoya CE
Associate Engineer

Good for You, Albuquerque!



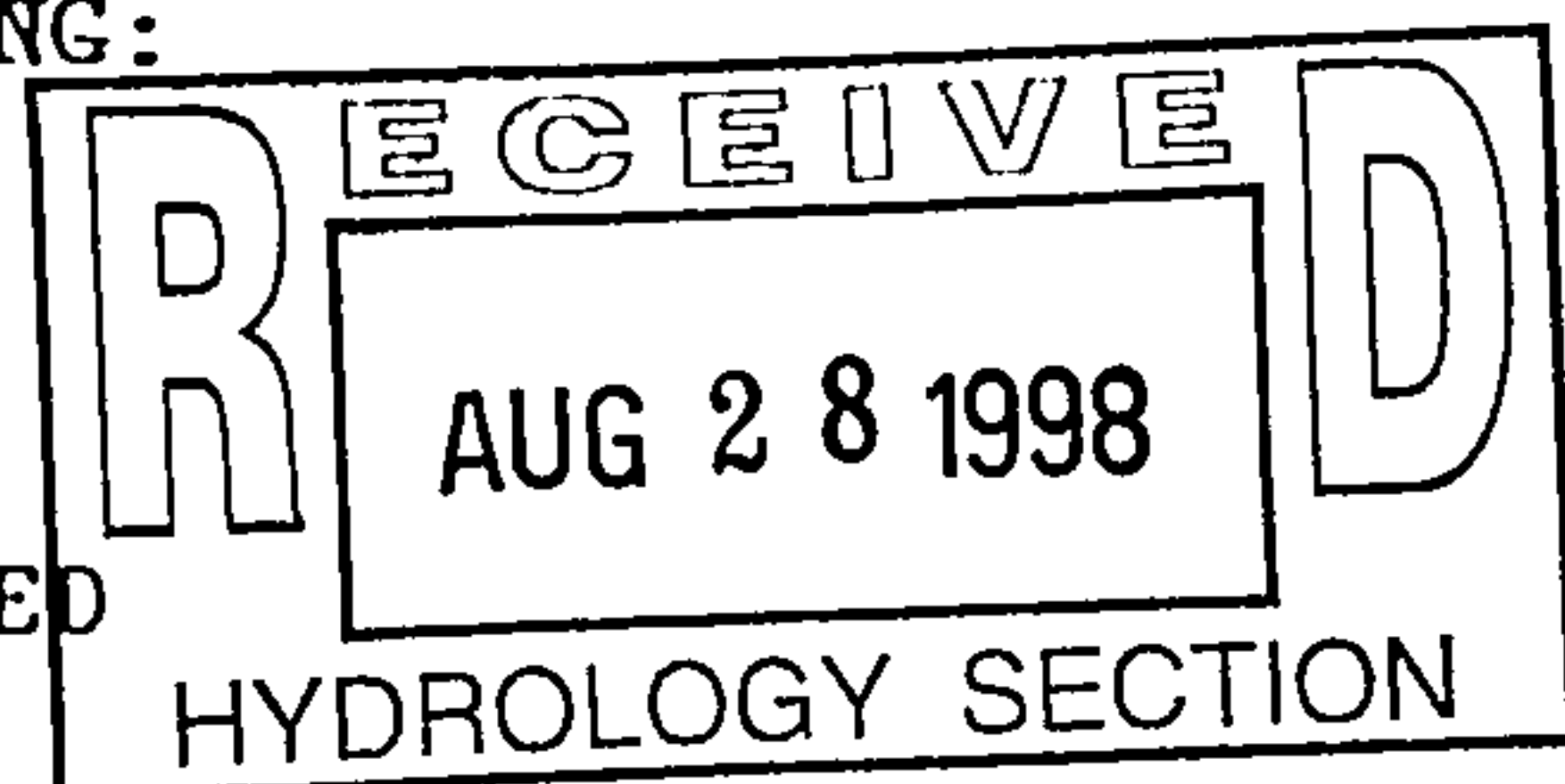
PROJECT TITLE: INEZ ELEMENTARY School MDP ZONE ATLAS/DRNG. FILE #: 119/D67
 DRB #: _____ EPC #: _____ WORK ORDER #: _____
 LEGAL DESCRIPTION: UNPLATTED LANDS OF UNM - AKA INEZ ELEMENTARY
 CITY ADDRESS: 1700 PENNSYLVANIA NE
 ENGINEERING FIRM: Jeff Mortensen & Assoc., Inc. CONTACT: Gary Bittner, PE
 ADDRESS: 6010-B Midway Park Blvd. N.E. PHONE: 345-4250
 OWNER: APS CONTACT: MYRON JOHNSON
 ADDRESS: — PHONE: 242-5865
 ARCHITECT: GAMELSKY - BENTON CONTACT: IKE BENTON
 ADDRESS: 622 TIVRAS NW, 87102 PHONE: 842 8865
 SURVEYOR: JEFF MORTENSEN & ASSOC. CONTACT: CHUCK CALA
 ADDRESS: 6010-B MIDWAY PARK BLVD N.E. PHONE: 3454250
 CONTRACTOR: N/A CONTACT: _____
 ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
☒ DRAINAGE PLAN (MASTER)
☐ 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 ACCEPTANCE OF (SPECIFY)
AS-BUILT CONDITIONS

DATE SUBMITTED:

8/28/98

BY:

Gary R. BittnerGRB



City of Albuquerque

March 24, 2000

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

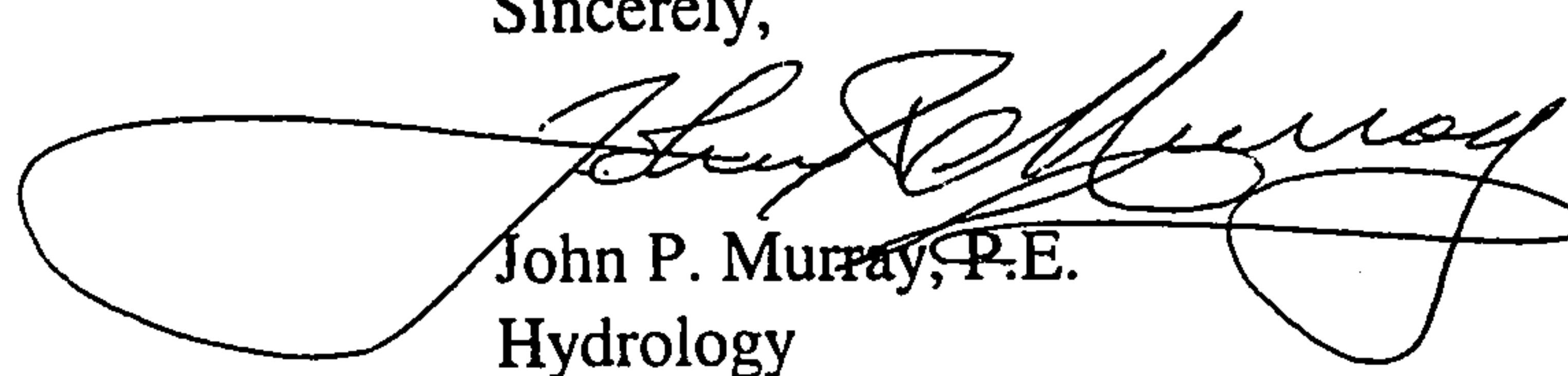
**RE: INEZ ELEMENTARY SCHOOL MINI-GYM (J19-D67). ENGINEER'S
CERTIFICATION FOR CERTIFICATE OF OCCUPANCY (Final) APPROVAL.
ENGINEER'S STAMP DATED March 16, 2000.**

Dear Mr. Mortenson:

Based on the information provided on your March 17, 2000 submittal, the above referenced project is approved for FINAL Certificate of Occupancy. This completes the Engineer's Certification stamped February 11, 2000.

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

Sincerely,


John P. Murray, P.E.
Hydrology

c: Whitney Reiersen
✓ File

DRAINAGE INFORMATION SHEET

INER ELEMENTARY

951098

PROJECT TITLE: SCHOOLZONE ATLAS/DRNG. FILE #: 119/067DRB #: 98-348

EPC #: _____

WORK ORDER #: _____

LEGAL DESCRIPTION: TR A, INER ELEMENTARY SCHOOLCITY ADDRESS: 1700 PENNSYLVANIA NSENGINEERING FIRM: JEFF MORTENSEN & ASSOC. CONTACT: JEFF MORTENSENADDRESS: 6010-B MIDWAY PARK BLVD NE PHONE: 345-4250OWNER: APS / DFPCCONTACT: MYRON JOHNSON

ADDRESS: _____

PHONE: 242-5865ARCHITECT: IKE BENTONCONTACT: SAMSADDRESS: 624 TIGERAS NWPHONE: 243-3499SURVEYOR: JEFF MORTENSEN & ASSOC.CONTACT: JEFF MORTENSENADDRESS: 6010-B MIDWAY PARK BLVD NE PHONE: 345-4250CONTRACTOR: LCI 2CONTACT: LAMARADDRESS: 4100 MENAUL NE
SUITE 2B 87110PHONE: 875-0540

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: 03-17-2000BY: JEFFREY G. MORTENSEN

RECEIVE
 MAR 17 2000
 HYDROLOGY SECTION



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

May 25, 2000

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

***RE: INEZ ELEMENTARY SCHOOL COURTYARD (J19-D67). GRADING AND
DRAINAGE PLAN FOR GRADING PERMIT, PAVING PERMIT,
AND SO#19 PERMIT APPROVALS. ENGINEER'S STAMP DATED May 22, 2001.***

Dear Mr. Mortenson:

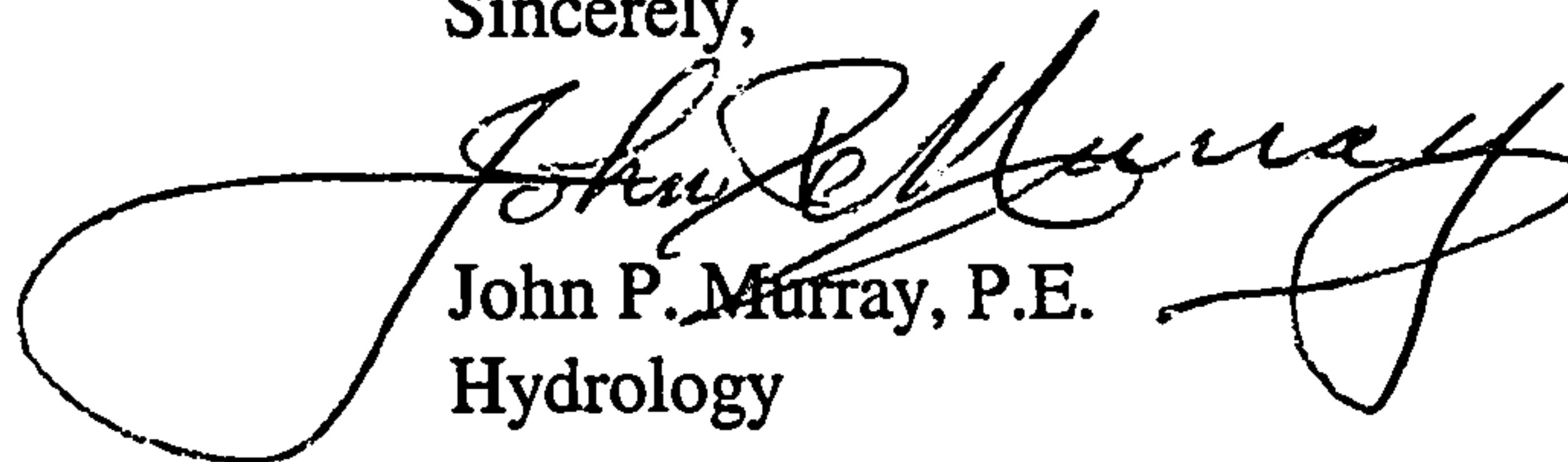
Based on the information provided on your May 22, 2001 submittal, the above referenced project is approved for Grading, Paving, and SO#19 Permits.

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

A separate permit is required for construction in the City right-of-way. A copy of this approval letter must be on hand when applying for the excavation permit, ***Please note that only the Inspector's signature is now required for the SO#19.***

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

Sincerely,


John P. Murray, P.E.
Hydrology

c: Terri Martin
✓ File
Paul Lujan

PUBLIC WORKS DEPARTMENT

MAY 25, 2001

INTEROFFICE CORRESPONDENCE

HYDROLOGY DIVISION

TO: Pam Lujan, Permits

FROM:  John Murray, Hydrology, PWD

SUBJECT: **PRIVATE DRAINAGE FACILITIES WITHIN PUBLIC RIGHT-OF-WAY
DRAINAGE FILE NUMBER (J19-D67). INEZ ELEMENTARY SCHOOL @
Indian School & Pennsylvania NE.**

Transmitted herewith is a copy of the approved drainage plan for the referenced project incorporating the SO #19 design.

This plan is being submitted to you for permitting and inspection. Please provide this section with a signed-off copy per the signature block upon construction and acceptance by your office.

As you are aware, the signed off SO #19 is required by this office for Certificate of Occupancy release; therefore your expeditious processing of this plan would be greatly appreciated and would avoid any unnecessary delay in the release of the Certificate of Occupancy.

Thank you for your cooperation and if you should have any questions and/or comments, please feel free to call me at 924-3984.

Attachment

DRAINAGE INFORMATION SHEET

951099

PROJECT TITLE: INEZ ELEMENTARY SCHOOL COURTYARD ZONE ATLAS/DRNG FILE #J19/D67

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

LEGAL DESCRIPTION: TRACT A, INEZ ELEMENTARY SCHOOLCITY ADDRESS: 1700 PENNSYLVANIA NE, 87110ENGINEER: JEFF MORTENSEN & ASSOCIATES, INC. CONTACT: JEFF MORTENSENADDRESS: 6010B MIDWAY PARK BLVD NE 87109 PHONE: 345-4250OWNER: ALBUQUERQUE PUBLIC SCHOOLS CONTACT: MYRON JOHNSONADDRESS: DFPC PHONE: 242-5865ARCHITECT: ISAAC BENTON & ASSOCIATES CONTACT: BRETT BEATTYADDRESS: 624 TIJERAS NW PHONE: 243-3499SURVEYOR: JEFF MORTENSEN & ASSOCIATES, INC. CONTACT: JEFF MORTENSENADDRESS: 6010B MIDWAY PARK BLVD. NE 87109 PHONE: 345-4250CONTRACTOR: J.R. HALE CONTRACTING CONTACT: TOM McCONNELLADDRESS: 505 CARMONY ROAD NE PHONE: 345-6628

TYPE OF SUBMITTAL:

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

PRE-DESIGN MEETING:

☒ YES (BRAD BINGHAM)
☐ NO

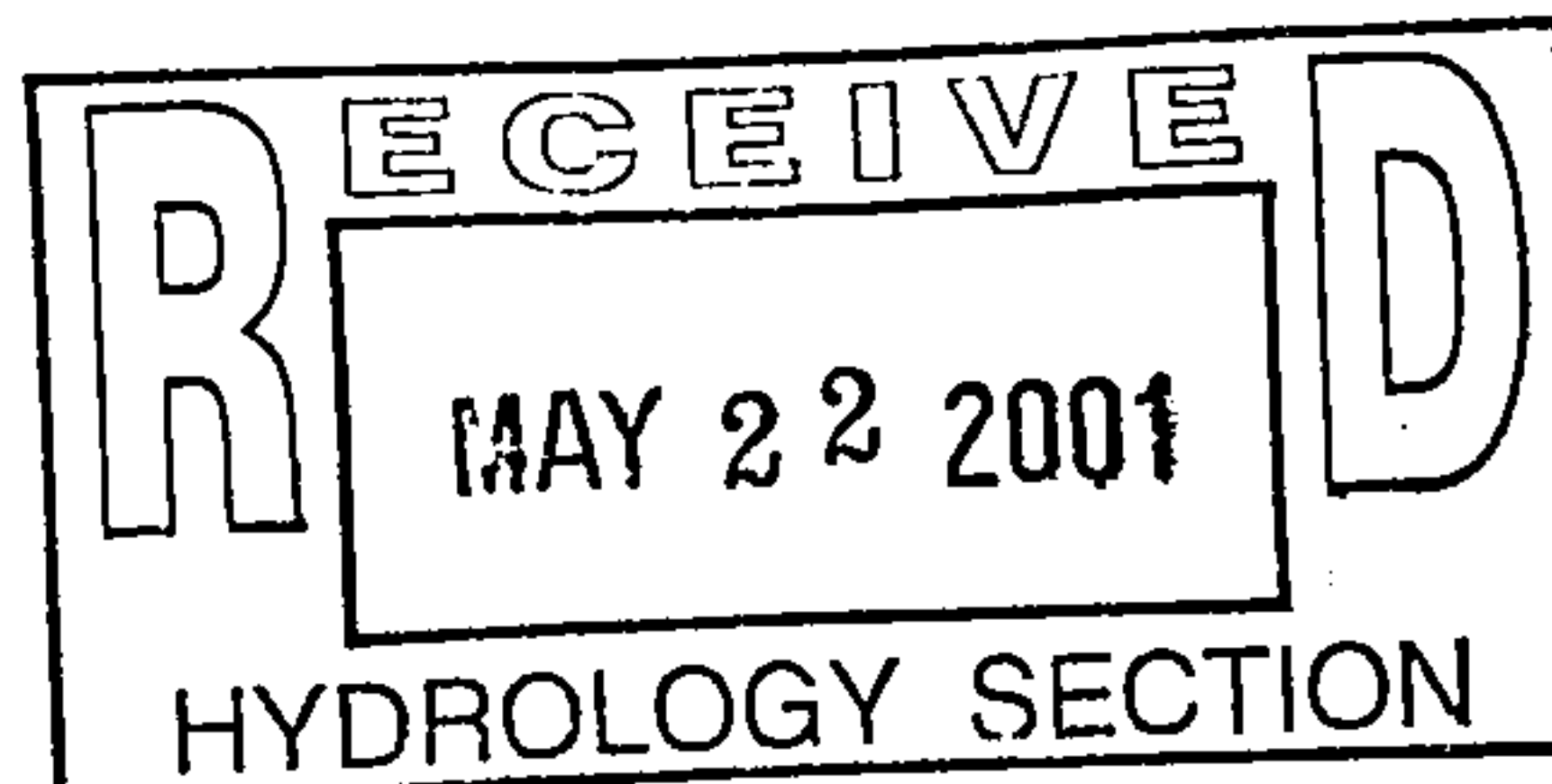
N/ACOPY PROVIDED (INFORMAL)

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: 05-23-2001

BY: JEFF MORTENSEN





City of Albuquerque

February 7, 2000

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

**RE: INEZ ELEMENTARY SCHOOL MINI-GYM (J19-D67). ENGINEER'S
CERTIFICATION FOR CERTIFICATE OF OCCUPANCY (Temporary)
APPROVAL. ENGINEER'S STAMP DATED FEBRUARY 11, 2000.**

Dear Mr. Mortenson:

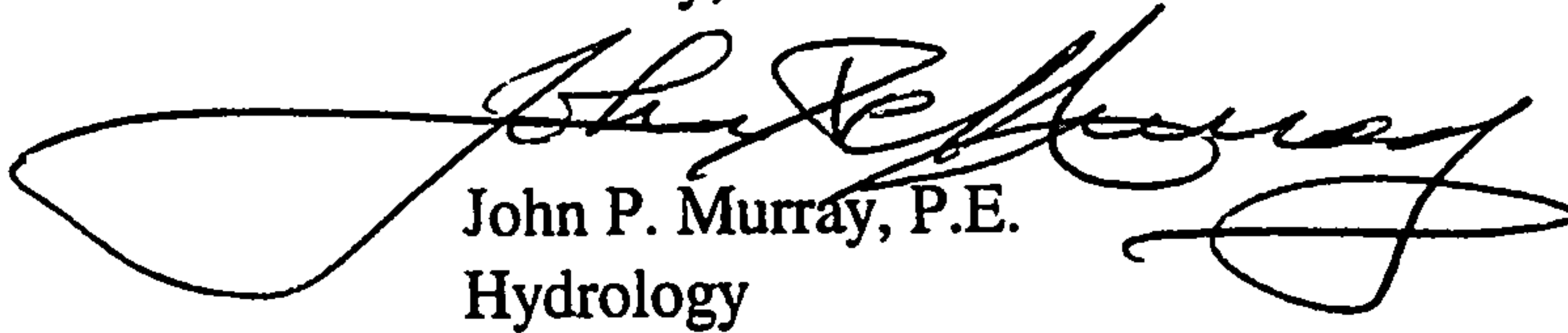
Based on the information provided on your February 15, 2000 submittal, the above referenced project is approved for a 60-day TEMPORARY Certificate of Occupancy. A 30-day Temporary C.O. had been granted on February 16, 2000.

As noted on Sheet C-2, some grading remains to be completed prior to Final Certification.

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

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

Sincerely,


John P. Murray, P.E.
Hydrology

c: Whitney Reiersen
File

DRAINAGE INFORMATION SHEET

RECEIVED

95098

INER ELEMENTARY

FEB 14 2000

ZONE ATLAS/DRNG. FILE #:

J19-067

PROJECT TITLE:

SCHOOL

DRB #: 98-348 EPC #:

WORK ORDER #:

LEGAL DESCRIPTION:

TRACT A, INER ELEMENTARY SCHOOL

CITY ADDRESS:

1700 PENNSYLVANIA NC

ENGINEERING FIRM: JEFF MORTENSEN & ASSOC.

CONTACT: JEFF MORTENSEN

ADDRESS: 6010-B MIDWAY PARK BLVD NC

PHONE: 345-4250

OWNER:

APS / DFPC

CONTACT:

MYRON JORTENSEN

ADDRESS:

PHONE: 242-5865

ARCHITECT:

IKE BENTON

CONTACT:

SAMS

ADDRESS:

624 TREAS NW

PHONE:

243-3499

SURVEYOR:

JEFF MORTENSEN & ASSOC.

CONTACT:

JEFF MORTENSEN

ADDRESS:

6010-B MIDWAY PARK BLVD NC

PHONE:

345-4250

CONTRACTOR:

LCI 2 1

CONTACT:

LAMAR

ADDRESS:

4100 MANAUL NE

PHONE:

875-0540

SUITE 213

87110

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

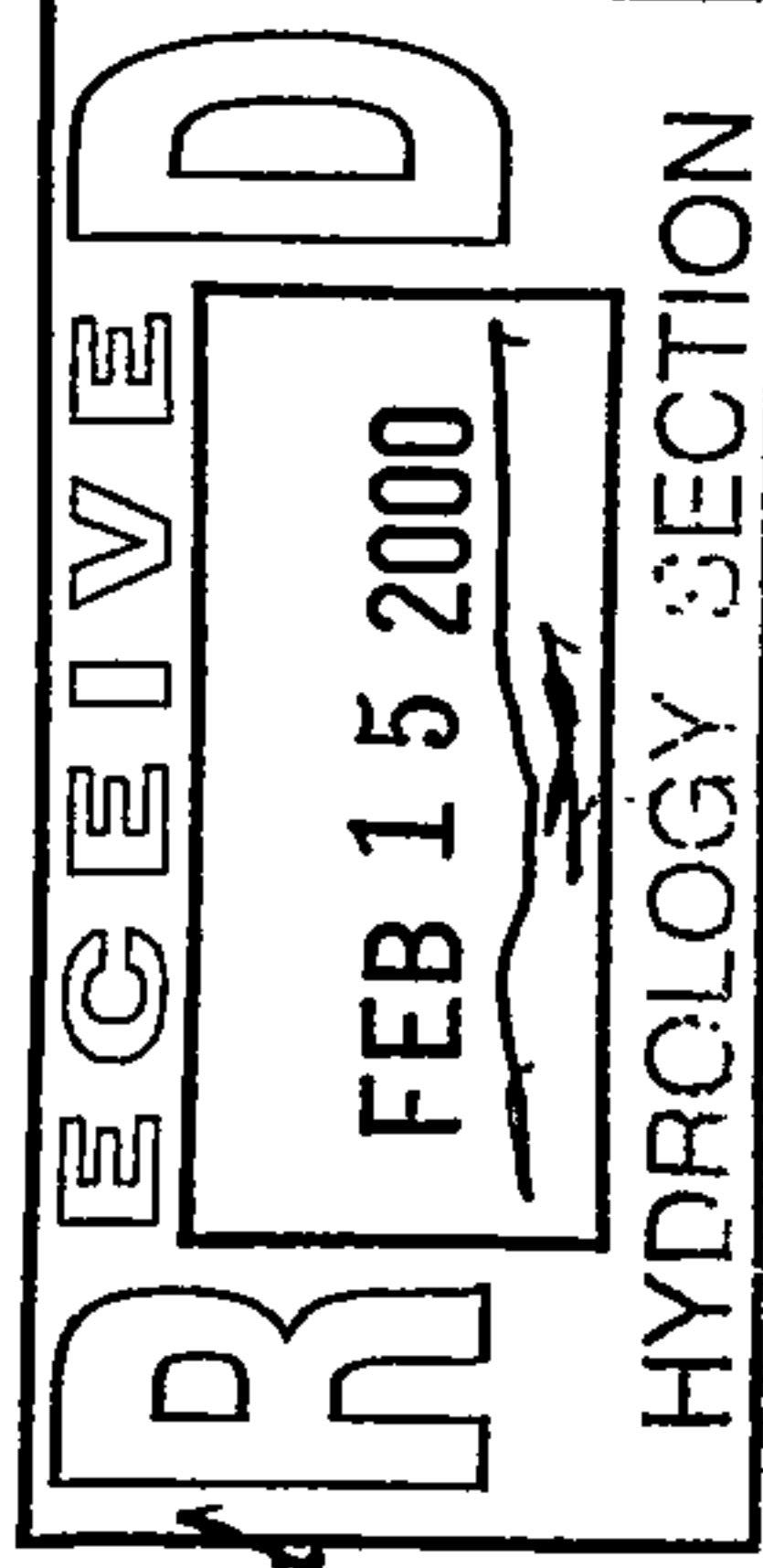
☐ PAVING PERMIT APPROVAL

☐ S.A.D. DRAINAGE REPORT

☐ DRAINAGE REQUIREMENTS

☐ OTHER

(SPECIFY)



PRE-DESIGN MEETING

☒ YES

☐ NO

☐ COPY PROVIDED

DATE SUBMITTED:

02-11-2000

BY:

JEFFREY G. MORTENSEN

2/16

30 day

temp

JG

DRAINAGE INFORMATION SHEET

951098

PROJECT TITLE: INER ELEMENTARY SCHOOL ZONE ATLAS/DRNG. FILE #: J19-D67
 DRB #: 98-348 EPC #: _____ WORK ORDER #: _____
 LEGAL DESCRIPTION: TRACT A, INER ELEMENTARY SCHOOL
 CITY ADDRESS: 1700 PENNSYLVANIA NE
 ENGINEERING FIRM: JEFF MORTENSEN & ASSOC. CONTACT: JEFF MORTENSEN
 ADDRESS: 6010-B MIDWAY PARK BLVD NE PHONE: 345-4250
 OWNER: APS / DFPC CONTACT: MYRON JOHNSON
 ADDRESS: _____ PHONE: 242-5865
 ARCHITECT: IKE BENTON CONTACT: SAME
 ADDRESS: 624 THORAS NW PHONE: 243-3499
 SURVEYOR: JEFF MORTENSEN & ASSOC. CONTACT: JEFF MORTENSEN
 ADDRESS: 6010-B MIDWAY PARK BLVD NE PHONE: 345-4250
 CONTRACTOR: LCI 2 CONTACT: LAMAR
 ADDRESS: 4100 MENAUL NE PHONE: 875-0540
SUITE 2B 87110

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:

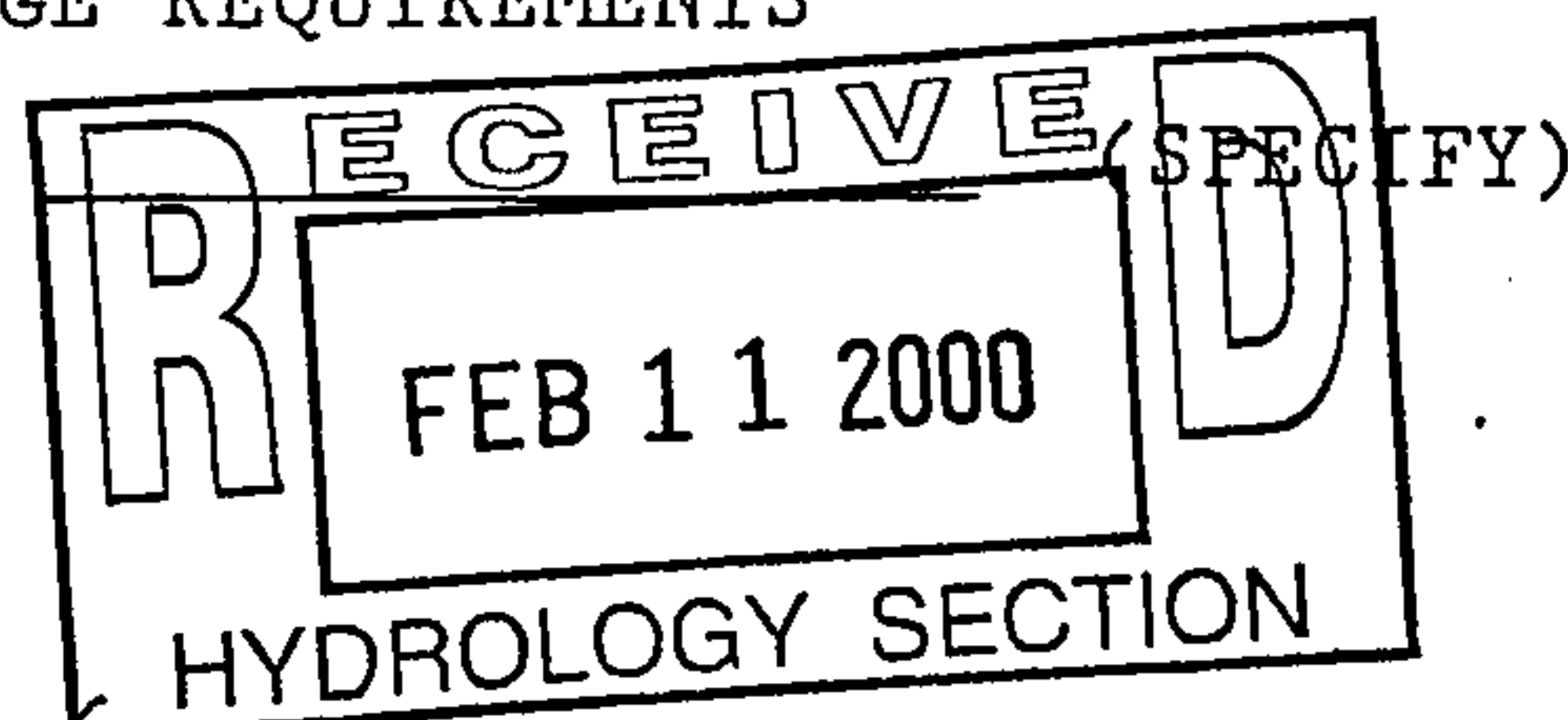
- ☐ SKETCH PLAT APPROVAL
☐ PRELIMINARY PLAT APPROVAL
☐ S. DEV. PLAN FOR SUB'D. APPROVAL
☐ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
☐ SECTOR PLAN APPROVAL
☐ FINAL PLAT APPROVAL
☐ FOUNDATION PERMIT APPROVAL
☐ BUILDING PERMIT APPROVAL
☒ CERTIFICATE OF OCCUPANCY APPROVAL
☐ GRADING PERMIT APPROVAL
☐ PAVING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

DATE SUBMITTED:

02-11-2000

BY:

JEFFREY G. MORTENSEN





City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

January 22, 1999

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

***RE: INEZ ELEMENTARY SCHOOL MINI-GYM (J19-D67). GRADING AND
DRAINAGE PLAN FOR BUILDING PERMIT APPROVAL. ENGINEER'S STAMP
DATED DECEMBER 11, 1998.***

Dear Mr. Bittner:

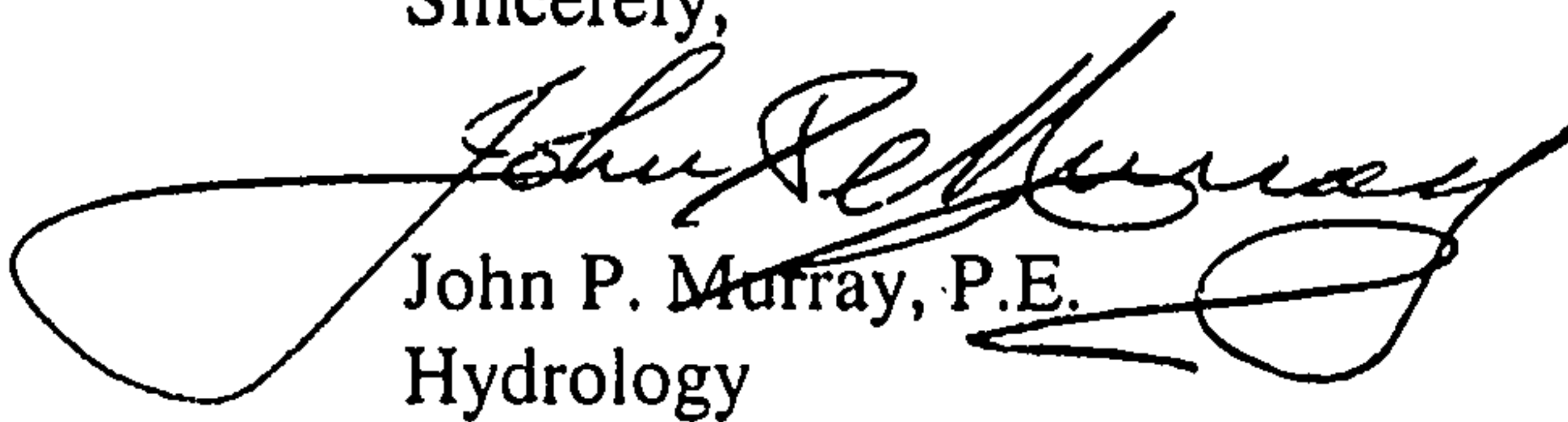
Based on the information provided on your December 11, 1998 submittal, the above referenced project is approved for Building Permit.

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

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

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

Sincerely,


John P. Murray, P.E.
Hydrology

c: ✓ Andrew Garcia
File

DRAINAGE INFORMATION SHEET

75195

PROJECT TITLE: INEZ E.S. MINI-GYM ZONE ATLAS/DRNG. FILE #: J19/D-067
DRB #: 98-348 EPC #: _____ WORK ORDER #: _____
LEGAL DESCRIPTION: UNPLATTED LANDS OF U.N.M (EXIST.) / TRACT A, INEZ ELEMENTARY SCHOOL (PROPOSED)
CITY ADDRESS: 1700 PENNSYLVANIA N.E.
ENGINEERING FIRM: Jeff Mortensen & Assoc., Inc. CONTACT: Gary Bittner
ADDRESS: 6010-B Midway Park Blvd. N.E. PHONE: 345-4250
OWNER: A.P.S. CONTACT: MYRON JOHNSON
ADDRESS: P.O. Box 25704, ABQ, NM 87125 PHONE: 242-5865
ARCHITECT: GAMELSKY-BENTON CONTACT: _____
ADDRESS: 622 TIJERAS NW, ALBUQUERQUE, 87102 PHONE: 842-8865
SURVEYOR: JEFF MORTENSEN & ASSOC. CONTACT: CHUCK CARA
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

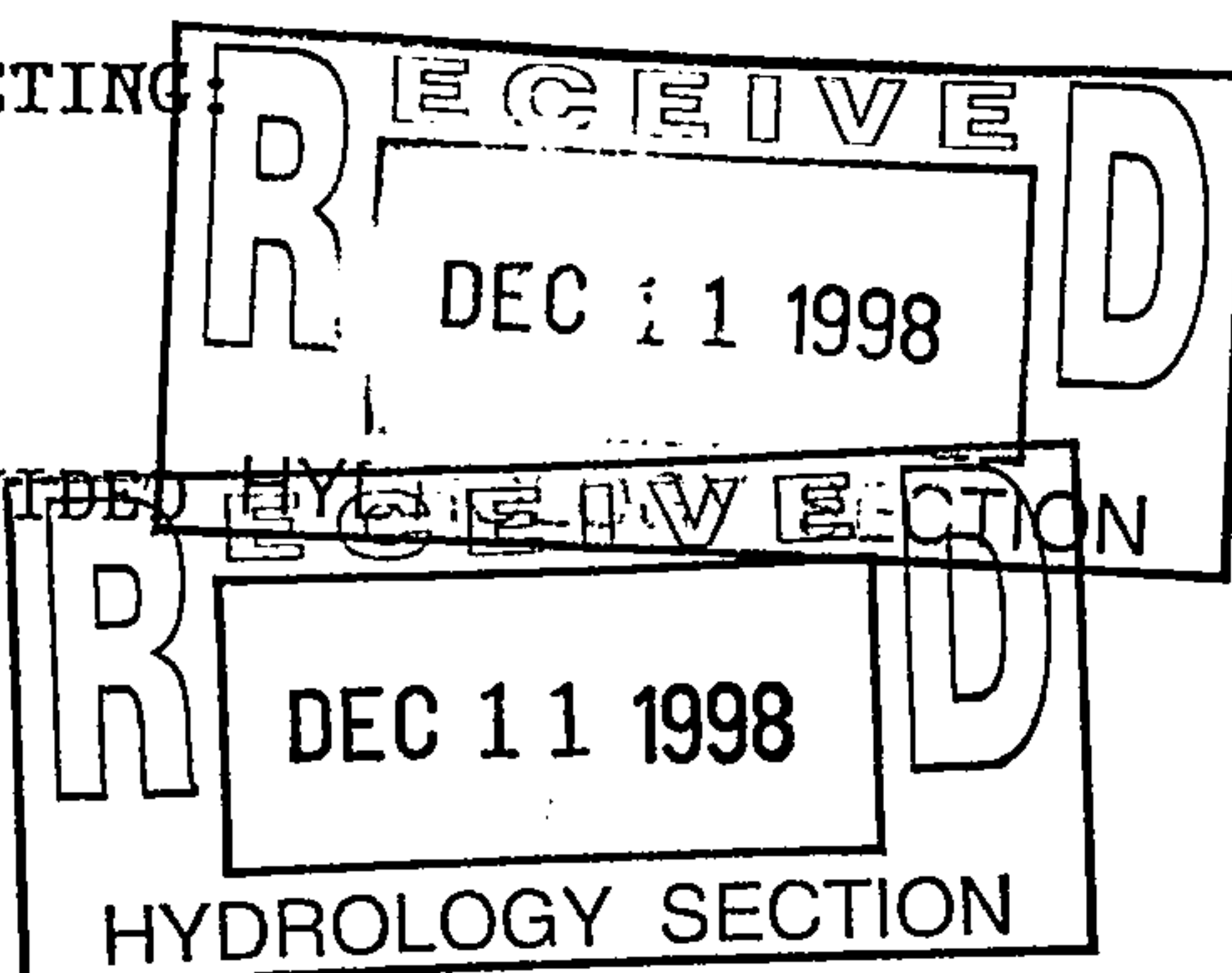
CHECK TYPE OF APPROVAL SOUGHT:

- ☐ 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 _____

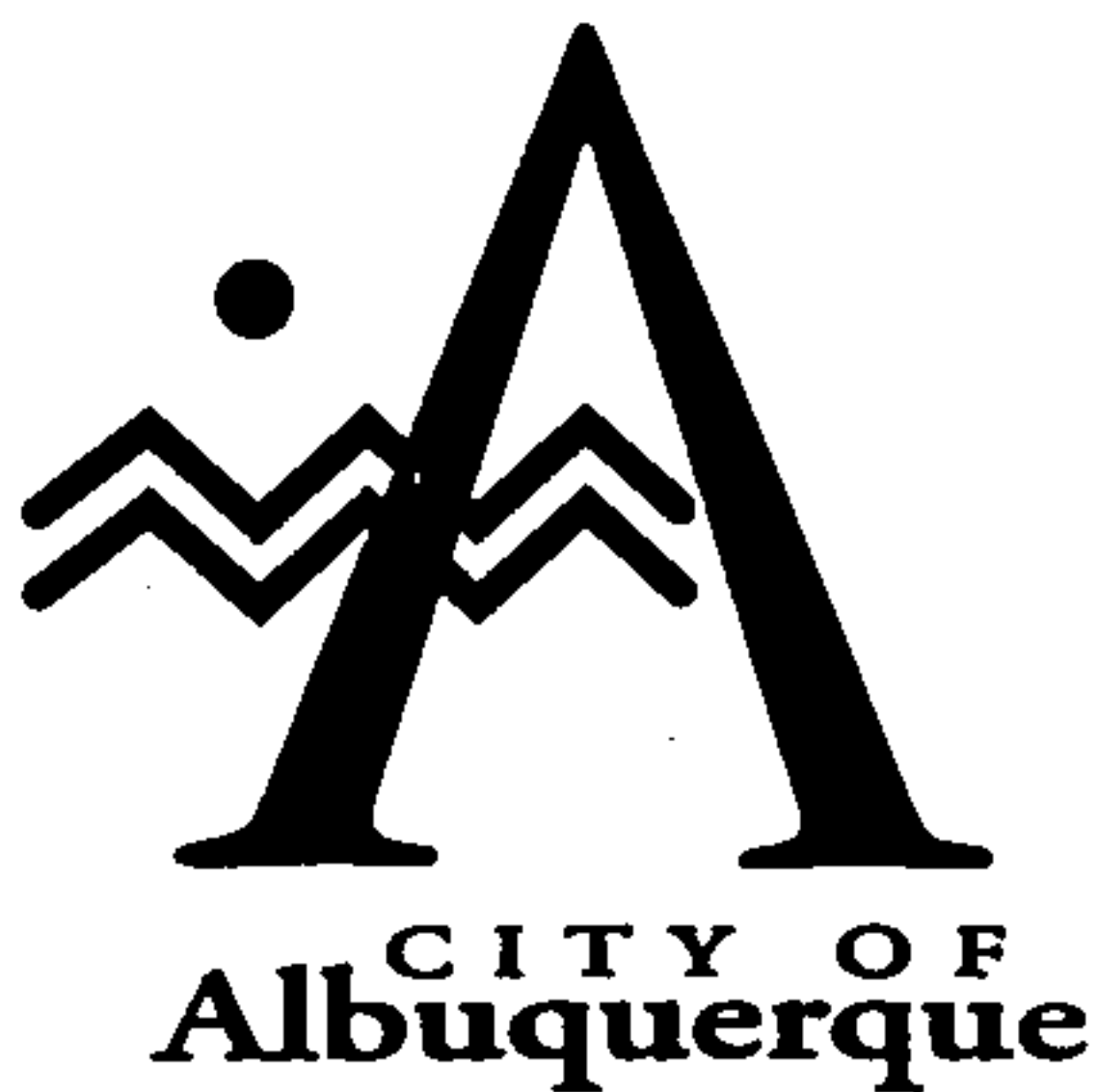


DATE SUBMITTED:

12/11/98

BY:

Gary R. BittnerGRB



July 3, 1996

Martin J. Chávez, Mayor

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

**RE: INEZ ELEMENTARY (J19-D67). GRADING AND DRAINAGE PLAN FOR
GRADING, PAVING, AND SO #19 PERMIT APPROVALS. ENGINEER'S STAMP
DATED 6-12-96.**

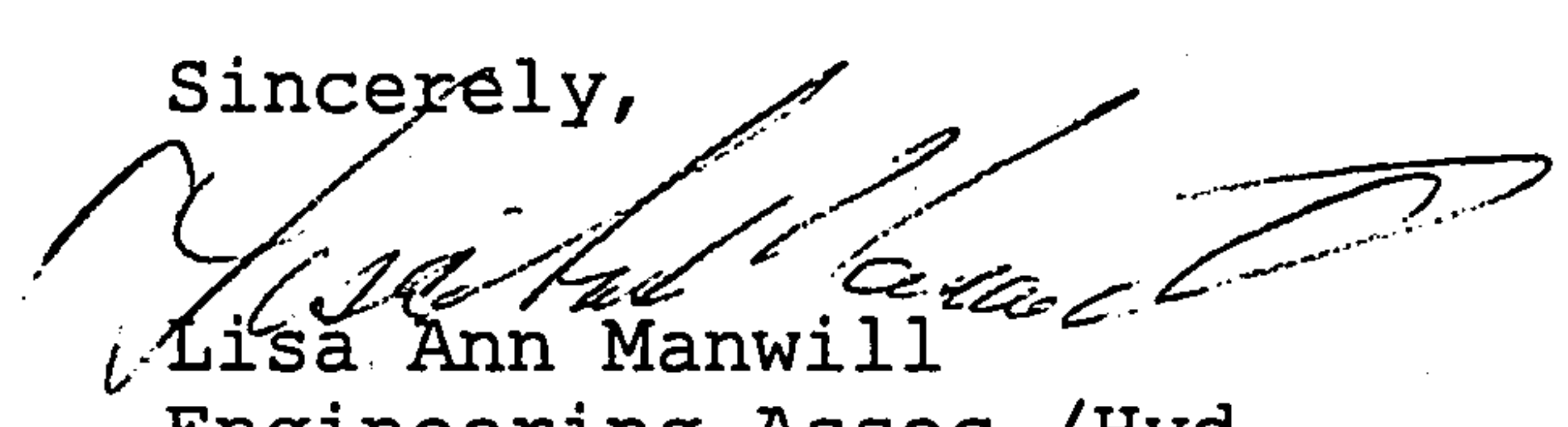
Dear Mr. Mortensen:

Based on the information provided on your June 13, 1996
submittal, the above referenced project is approved for Grading,
Paving, and SO #19 permits.

Please provide this office with an Engineer's Certification upon
project completion.

If I can be of further assistance, please feel free to contact me
at 768-3622.

Sincerely,


Lisa Ann Manwill
Engineering Assoc./Hyd.

c: Arlene Portillo
Andrew Garcia
File



DRAINAGE INFORMATION SHEET

951092

PROJECT TITLE: Inez Elementary School ZONE ATLAS/DRNG. FILE #: J-19/167
DRB #: _____ EPC #: _____ WORK ORDER #: _____
LEGAL DESCRIPTION: Unplatted
CITY ADDRESS: 1700 Pennsylvania N.E.
ENGINEERING FIRM: JMA CONTACT: Jeff Mortensen
ADDRESS: 6010-B Midway Park Blvd NE PHONE: 345-4250
OWNER: APS DFP & C CONTACT: Bob Backer
ADDRESS: P.O. Box 25704, Albuquerque, NM 87125 PHONE: _____
ARCHITECT: Dennis Wilkinson & Assoc. CONTACT: Dennis Wilkinson
ADDRESS: P.O. Box 1542, Corrales, NM 87048 PHONE: 897-7430
SURVEYOR: JMA CONTACT: Chuck Cala
ADDRESS: _____ PHONE: 345-4250
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 SO #19 (SPECIFY)

DATE SUBMITTED: 06-13-96BY: J. Graeme Means

cc, Dennis Wilkinson

CITY OF ALBUQUERQUE



September 21, 2011

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

**Re: Inez Elementary School, Master Drainage, 1700 Pennsylvania St. NE,
Engineer's Stamp dated 9-8-11 (J19/D067)**

Dear Mr. Mortensen,

Based upon the information provided in your submittal dated 9-9-11, the above referenced plan is approved based on the following condition:

- On Sheet 1 of 4 it is mentioned that the storm pipe from the proposed Double D inlet to the Inlet Type C on Pennsylvania will be a 12" SD. This connection must be an 18" RCP as it is shown on Sheet 4 of 4.

Please reference this approved Master Drainage Plan on your future submittals. If you have any questions, you can contact me at 924-3695.

Sincerely,

Shahab Biazar, P.E.
Senior Engineer, Planning Dept.
Development and Building Services

C: file

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: Inez Elementary School - MDP Update ZONE ATLAS/DRNG. FILE #: J-19/D67
 DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: Tract A, Inez Elementary School
 CITY ADDRESS: 1700 Pennsylvania Street NE

ENGINEERING FIRM: High Mesa Consulting Group CONTACT: Jeff Mortensen, NMPE 8547
 ADDRESS: 6010-B Midway Park Blvd. NE PHONE: (505) 345-4250
 CITY, STATE: Albuquerque, NM ZIP CODE: 87109

OWNER: Albuquerque Public Schools CONTACT: David Ritchey
 ADDRESS: 915 Oak Street SE PHONE: 848-8876
 CITY, STATE: Albuquerque, NM ZIP CODE: 87106

ARCHITECT: NCA Architects CONTACT: Tom Wilber
 ADDRESS: 1306 Rio Grande Blvd NW PHONE: 255-6400
 CITY, STATE: Albuquerque, NM ZIP CODE: 87104

SURVEYOR: High Mesa Consulting Group CONTACT: Charles Cala, NMPS 11184
 ADDRESS: 6010-B Midway Park Blvd. NE PHONE: (505) 345-4250
 CITY, STATE: Albuquerque, NM ZIP CODE: 87109

CONTRACTOR: n/a CONTACT: _____
 ADDRESS: _____ PHONE: _____
 CITY, STATE: _____ ZIP CODE: _____

TYPE OF SUBMITTAL:

- ☒ DRAINAGE REPORT – MDP UPDATE
☐ 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

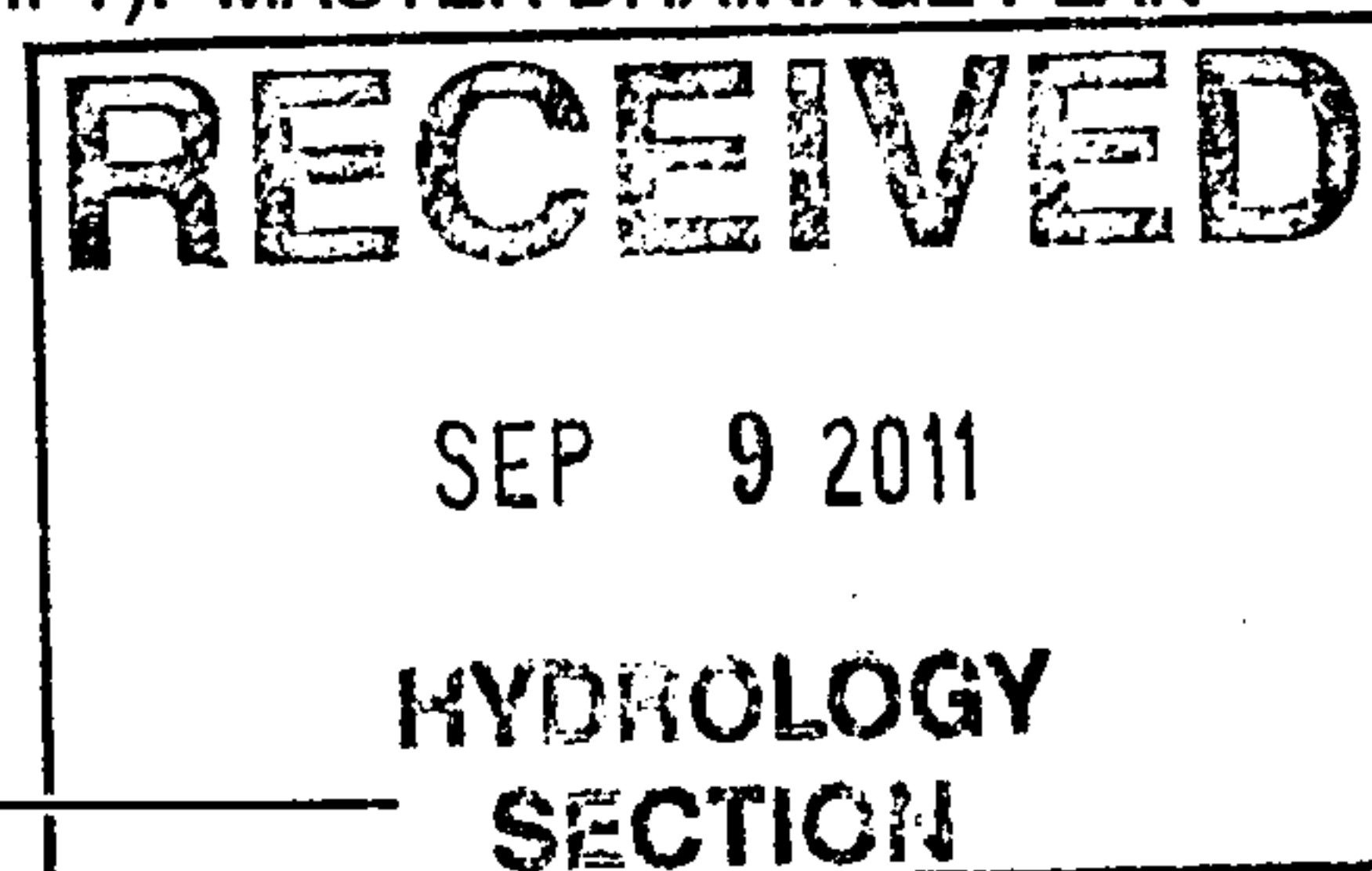
CHECK TYPE OF APPROVAL SOUGHT:

- ☐ 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): MASTER DRAINAGE PLAN
☐ UPDATE

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☒ YES
☐ NO
☒ COPY PROVIDED

DATE SUBMITTED: 09-08-11 BY: Justin Schara



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

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

CITY OF ALBUQUERQUE
PLANNING DEPARTMENT
DEVELOPMENT SERVICE / HYDROLOGY SECTION

DATE: 5-27-11
CONFERENCE RECAP

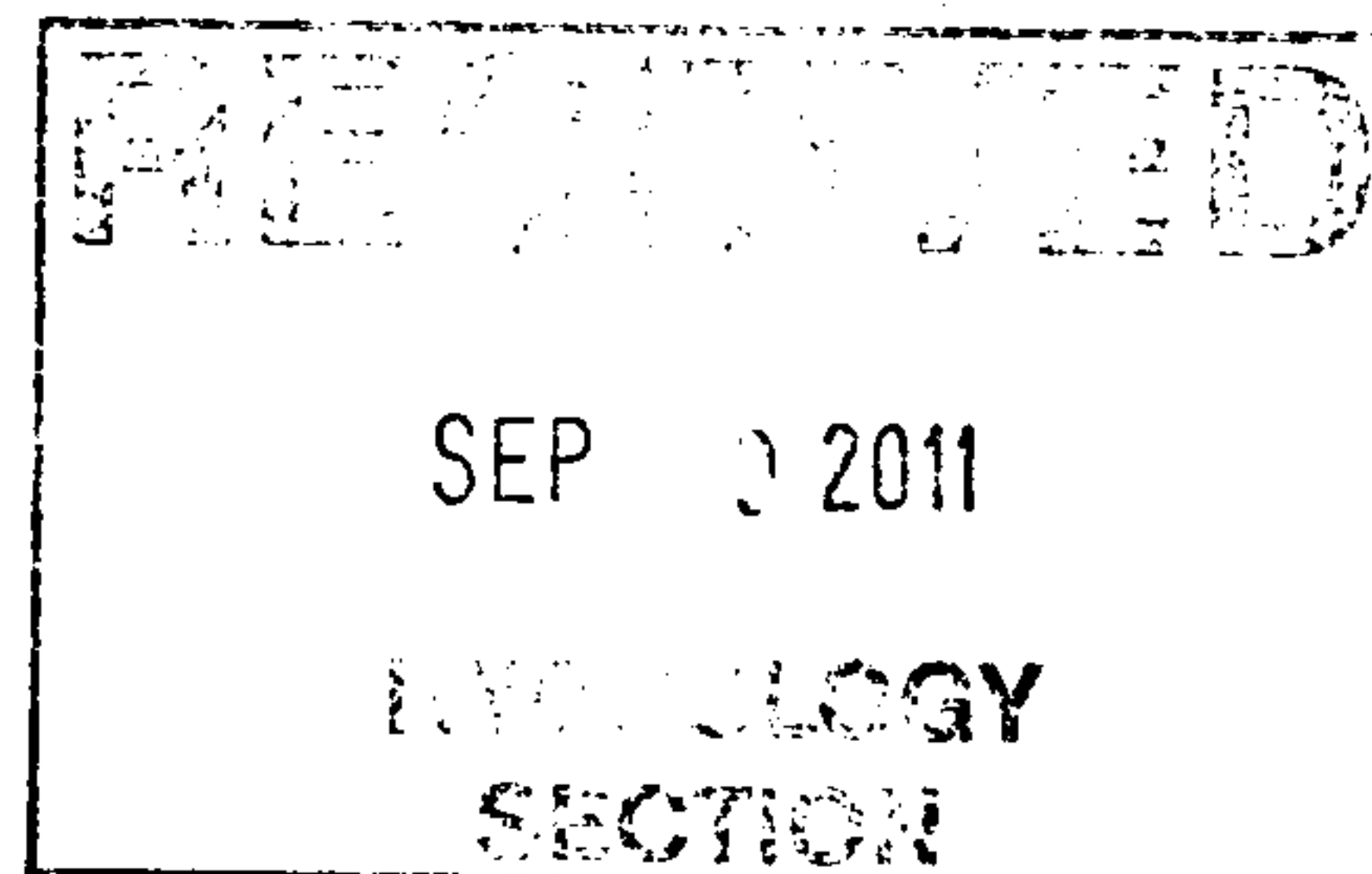
ZONE ATLAS PAGE NO: J 19
DRAINAGE FILE: J19/0067
ZONING: _____
DRB: _____
SUBJECT: 1st elem school improvements
STREET ADDRESS (IF KNOWN): _____
SUBDIVISION NAME: _____

APPROVAL REQUESTED: BUILDING PERMIT & SO #19

ATTENDANCE: Jeff Mortensen Curtis Cherne

FINDINGS:

- update Master Drainage Plan
- if have to relocate curb inlet in Pennsylvania for new drive entrance, wo is req'd
- Drain SW basin by pipe to back of inlet in McKnight. (SO #19)
- Site has free discharge



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

SIGNED: Curtis A. Cherne
NAME (PRINT): Curtis A. Cherne

SIGNED: Jeffrey G. Mortensen
NAME (PRINT): Jeffrey G. Mortensen

****NOTE**** PLEASE PROVIDE A COPY OF THIS RECAP WITH YOUR DRAINAGE SUBMITTAL.

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 04/2009)

PROJECT TITLE: Inez Elementary School ZONE MAP: J-19/D 67
DRB#: EPC#: WORK ORDER#: 596582

LEGAL DESCRIPTION: Inez Elementary School
CITY ADDRESS: 1700 Pennsylvania Street NE, ABQ, NM

ENGINEERING FIRM: Scott M McGee PE CONTACT: Scott McGee
ADDRESS: 9700 Tanoan Drive NE PHONE: 263-2905
CITY, STATE: ABQ, NM ZIP CODE: 87111

OWNER: A P S CONTACT: Myron Johnson
ADDRESS: 1700 Pennsylvania Street NE PHONE: 848-8817
CITY, STATE: ABQ, NM ZIP CODE: 87114

ARCHITECT: NCA CONTACT: Tom Wilber
ADDRESS: 1306 Rio Grande Blvd NW PHONE: 255-6400
CITY, STATE: ABQ, NM ZIP CODE: 85014

SURVEYOR: High Mesa CONTACT: Chuck Cala
ADDRESS: 6010-B Midway Park NE PHONE: 345-4250
CITY, STATE: ABQ, NM ZIP CODE: 87109

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
☐ GRADING CERTIFICATION
☒ OTHER (SPECIFY)

WAS A PRE-DESIGN CONFERENCE ATTENDED:

☐ YES

☐ NO

☐ COPY PROVIDED

24

DATE SUBMITTED: 1/20/2012 BY: SMM

5.0.19

Rec
1/24

Requests for approvals of Site Development Plans and/or Subdivision Plans 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:

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CITY OF ALBUQUERQUE



February 07, 2012

Scott M. McGee, P.E.
9700 Tanoan Dr NE
Albuquerque, NM 87111

**Re: Inez Elementary School Cafeteria, Fine Arts/Classroom and Renovations
Grading and Drainage Plan
Engineer's Stamp Date 1/24/2012 (J19D067)**

Dear Mr. McGee,

Based upon the information provided in your submittal received 1-24-2012, the above referenced plan can not be approved for Building Permit until the following comments are addressed.

- Please double check the location of the high point within the loop road, connecting McKnight Ave. NE and Pennsylvania St. NE, against the Master Drainage Plan. It appears that the sidewalk culvert north of the building with finish floor elevation of 30.70 will drain north instead of south.
- Call out the curb opening size by elevation 27.00 across the 24" sidewalk culvert within the loop road north of McKnight Ave. NE.
- Include additional spot elevation against the portable building SC313 to assure that no runoff will drain under the building at the location where the proposed swale turns south.
- Provide calculation for the proposed swale.
- Add a section at the 3-12" culvert crossing. Is there adequate coverage over the pipes? Include pipe flow calculations.
- SO-19 Notes are not shown on the plan.
- Provide calculations for the sidewalk culverts and proposed openings.
- Does the 18" Domed Grate have adequate capacity? Provide calculations (assume a 50% clogging factor). May want to consider raising top of pond elevation to 23.70. Provide a detail for connecting the 18" PVC to 18" RCP.

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

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

Sincerely,


Shahab Biazar, P.E.
Senior Engineer, Planning Dept.
Development and Building Services

C: e-mail

DRAINAGE AND TRANSPORTATION INFORMATION SHEET
(REV 04/2009)

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DRB#: _____ EPC#: _____ WORK ORDER#: 596582

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

TYPE OF SUBMITTAL:
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____ DRAINAGE PLAN 1st SUBMITTAL
____ DRAINAGE PLAN RESUBMITTAL
____ CONCEPTUAL G & D PLAN
XX 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) _____

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____ S. DEV. PLAN FOR SUB'D APPROVAL
____ S. DEV. FOR BLDG. PERMIT APPROVAL
____ SECTOR PLAN APPROVAL
____ FINAL PLAT APPROVAL
____ FOUNDATION PERMIT APPROVAL
XX BUILDING PERMIT APPROVAL
____ CERTIFICATE OF OCCUPANCY (PERM)
____ CERTIFICATE OF OCCUPANCY (TEMP)
____ GRADING PERMIT APPROVAL
____ PAVING PERMIT APPROVAL
____ WORK ORDER APPROVAL
____ GRADING CERTIFICATION
XX OTHER (SPECIFY) SO-19

WAS A PRE-DESIGN CONFERENCE ATTENDED:

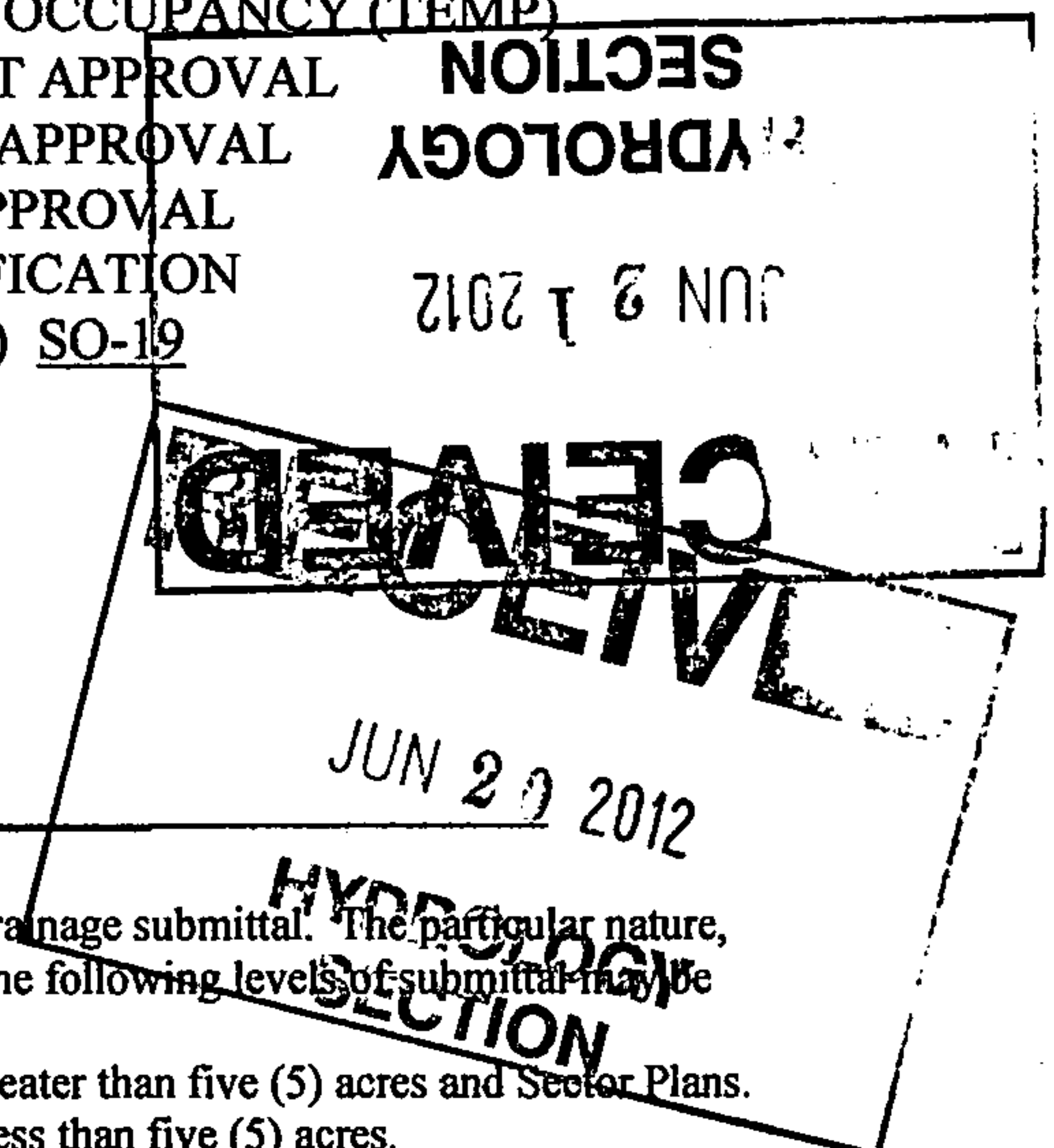
____ YES
____ NO
____ COPY PROVIDED

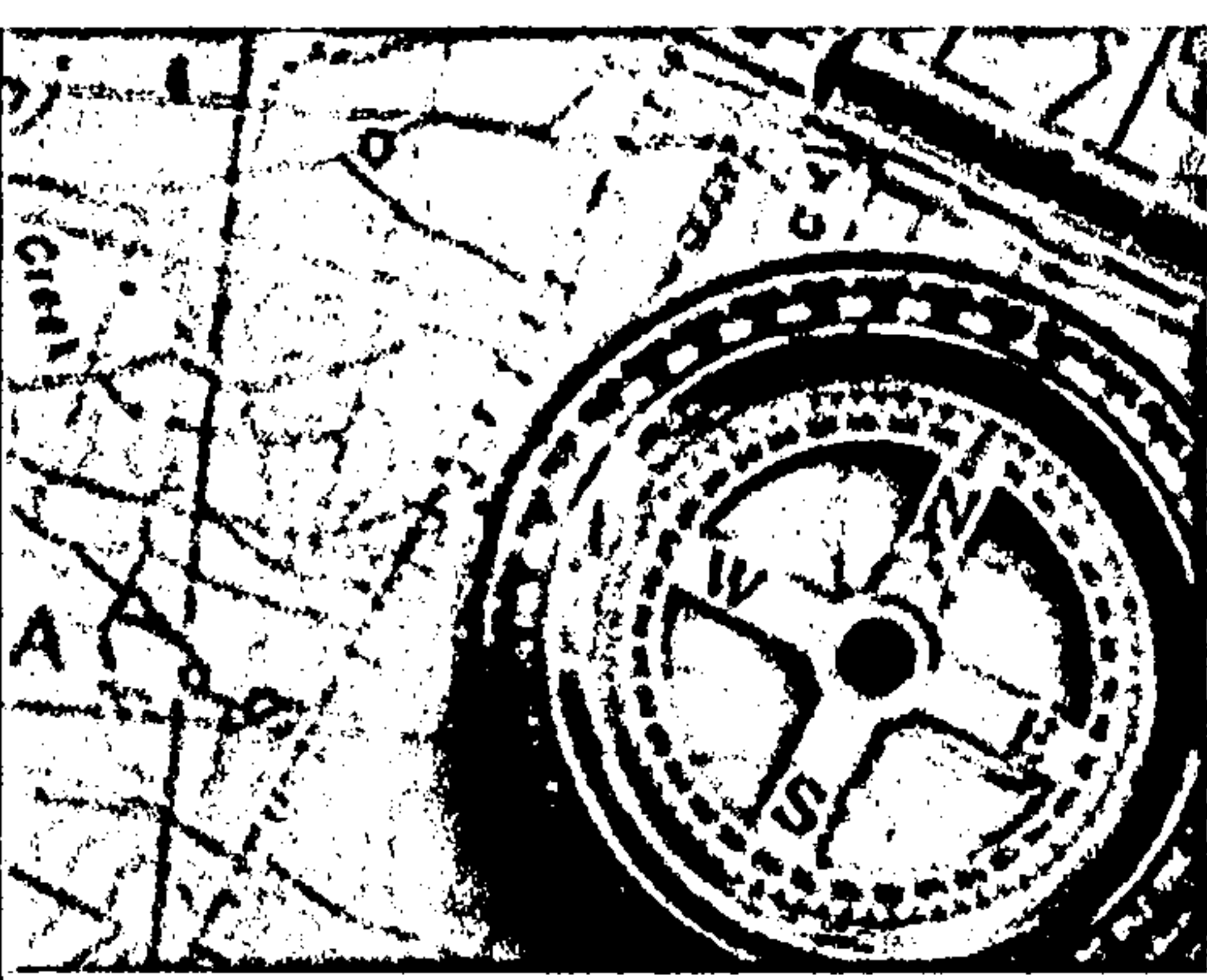
RESUBMITTAL

DATE SUBMITTED: 6/21/2012 BY: SMM

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:

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SCOTT M MCGEE PE, LLC
CIVIL ENGINEER

FROM PROJECT INCEPTION TO
CONSTRUCTION COMPLETION

June 21, 2012

Shahab Biazar, PE
Senior Engineer, Planning Dept.
Development and Building Services
City of Albuquerque
Albuquerque, NM 87103

RE: Inez E S Cafeteria (J19/ D067)

Dear Mr. Biazar,

I am submitting a revised Grading plan for the proposed school building project. Thank you for your review comments of February 7, which have been addressed as follows:

- < An additional spot elevation has been added to the loop road and one modified to direct flows south from the north building roof drain discharge culvert.
- < The proposed curb opening size has been noted.
- < Additional spot elevations have been added adjacent to portable building SC313.
- < Swale capacity based on Manning's equation (for 6' width and 10" depth) using $n=0.23$ and min. slope = 1.63% is:
$$Q = (1.49 / 0.23)(2.5)(.545)(.1276) = 11.2 \text{ CFS } (> 10.8 \text{ CFS} \rightarrow \text{OK})$$
- < The requested section has been added indicating 12" cover over pipe culverts.
Pipe capacity calculations are given in note strip at right side of sheet.
- < SO-19 notes are located below the FIRM Panel on the right side of the sheet.
- < Sidewalk culvert capacity for 24" width based on Manning's equation is:
$$Q = (1.49 / 0.15)(1.0)(0.48)(0.10) = 4.7 \text{ CFS}$$

Two 24" culverts are required for flow rate of 6.6 CFS
Wall opening (48" x 8") capacity based on the Orifice equation:
$$Q = (0.6)(2.66)[(64.4)(0.33)]^{1/2} = 7.4 \text{ CFS } (> 6.4 \text{ CFS} \rightarrow \text{OK})$$
- < The proposed inlet has been modified—see inlet capacity on attachment.

I can be reached either by phone or e-mail if needed to answer questions. Thank you.


Scott M McGee PE

Nyloplast 30" Dome Grate Inlet Capacity Chart

