CITY OF ALBUQUERQUE

PLANNING DEPARTMENT - Development Review Services



Richard J. Berry, Mayor

October 21, 2016

Eugenio E. Valdez, P.E. Wilson & Company, Inc. 4900 Lang Ave. NE Albuquerque, NM 87109

Re: Tierra Antigua Portable Relocation

Grading and Drainage Plan

Engineer's Stamp Date 10-12-2016 (C09D010A)

Dear Mr. Valdez,

Based upon the information provided in your submittal received 10-12-2016, the above referenced Grading Plan is approved for Foundation and Grading Permit.

PO Box 1293

Certificate of Occupancy certification is not required for Hydrology for APS Portable Buildings. However, please forward a copy of any as-builts that are developed for our records.

Albuquerque

Please include a copy of this approved plan in the Building Permit submittal.

New Mexico 87103 If you have any questions, you can contact me at 924-3986.

www.cabq.gov

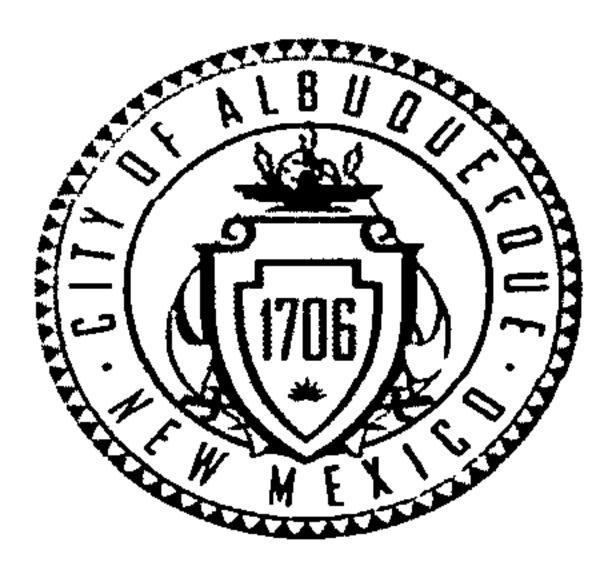
Abiel Carrillo, P.E.

Sincerely,

Principal Engineer, Planning Dept.

Development Review Services

Orig: Drainage file



COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: ____

City of Albuquerque

Planning Department

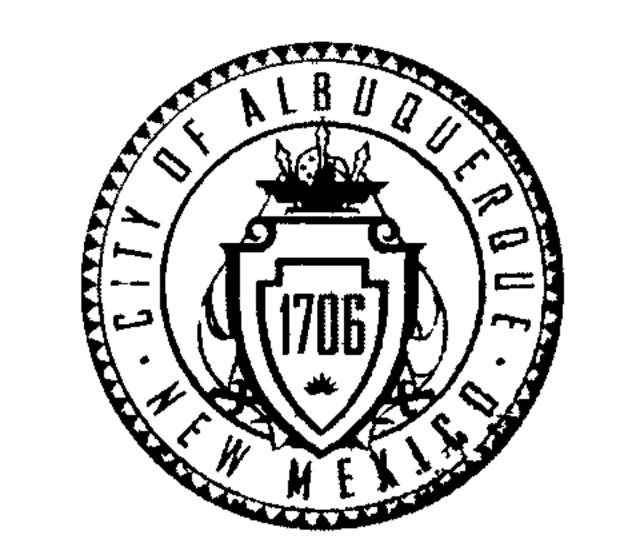
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

Project Title: Tierra Antıgua Portable Relocation	Building Permit #: City Drainage #: _C-09 DO
DRB#: EPC#:	Work Order#:
Legal Description: TR C-1 PLAT OF TRACT C-1 BANCIENT MESA BULK LAN	D PLAT OF TRACT C-2 ANCIENT MESA CONT 63.3138 AC
City Address: 8121 RAINBOW RD NW	
Engineering Firm: WILSON & COMPANY	Contact: EUGENIO VALDEZ
Address: 4900 LANG AVENUE NE, ALBUQUERQUE NM 87109	
Phone#: 505-948-5127 Fax#: 505-348-4055	E-mail: EEVALDEZ@WILSONCO.COM
Owner: ALBUQUERQUE PUBLIC SCHOOLS	Contact: Sal War
Address: 915 OAK SE, ALBUQUERQUE, NM 87106	
Phone#: 505-848-8876 Fax#: 505-848-8822	E-mail: WAR@aps edu
Architect:	Contact:
Address:	
Phone#: Fax#:	E-mail:
Other Contact:	Contact:
Address:	
Phone#: Fax#:	E-mail:
ENGINEER/ ARCHITECT CERTIFICATION CONCEPTUAL G & D PLAN GRADING PLAN DRAINAGE MASTER PLAN DRAINAGE REPORT CLOMR/LOMR TRAFFIC CIRCULATION LAYOUT (TCL) TRAFFIC IMPACT STUDY (TIS)	PRELIMINARY PLAT APPROVAL PRELIMINARY PLAT APPROVAL STEPLAN FOR SUB'D APPROVAL SITE PLAN FOR BLDG. PERMIT APPROVAL FINAL PLAT APPROVAL SIA/ RELEASE OF FINANCIAL GUARANTEE * FOUNDATION PERMIT APPROVAL GRADING PERMIT APPROVAL SO-19 APPROVAL PAVING PERMIT APPROVAL GRADING/ PAD CERTIFICATION WORK ORDER APPROVAL
EROSION & SEDIMENT CONTROL PLAN (ESC) OTHER (SPECIFY) IS THIS A RESUBMITTAL?: Yes No	CLOMR/LOMR PRE-DESIGN MEETING OTHER (SPECIFY)
DATE SUBMITTED: October 12, 2016 By: EUGEN	IO VALDEZ

CITY OF ALBUQUERQUE

July 10, 2015



David Aube, PE Hartman + Majewski Design Group 120 Vassar Dr. SE Suite 100 Albuquerque, NM 87106

Re: Tierra Antiqua Portables

8121 Rainbow Rd NW

Request Permanent C.O. - Accepted

Engineer's Stamp dated: 3-10-15 (C09D010A)

Certification dated: 6-28-15

Dear Mr. Aube,

RR/RR

email

C:

Based on the Certification received 7/7/2015, the site is acceptable for release of Certificate of Occupancy by Hydrology.

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

PO Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

ttl.

Rita Harmon, P.E.

Senior Engineer, Hydrology

Planning Department

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: <u>Tierra Antigua Portable Masterplan</u> DRB #:	ZONE MAP/DRG. FILE #:C-09-12 DO (1) WORK ORDER#:
LEGAL DESCRIPTION: CO97 D CITY ADDRESS: 8121 Rainbow Road	
ENGINEERING FIRM: <u>Hartman + Majewski Design Group</u> ADDRESS: <u>120 Vassar Dr SE, Suite 100</u> CITY, STATE: <u>Albuquerque, NM 87106</u>	CONTACT: <u>David Aube</u> PHONE: <u>505-998-6430</u> ZIP CODE: <u>87106</u>
OWNER: Albuquerque Public Schools ADDRESS: CITY, STATE: Albuquerque, NM	CONTACT: PHONE: <u>505-</u> ZIP CODE: <u>871</u>
ARCHITECT: Studio Southwest ADDRESS: 120 Vassar Dr SE, Suite 100 CITY, STATE: Albuquerque, NM	CONTACT: <u>Kim Hooker</u> PHONE: 505-998-6442 ZIP CODE: <u>87106</u>
SURVEYOR: Wilson and Co ADDRESS: CITY, STATE: Albuquerque, NM	CONTACT: PHONE: <u>505-</u> ZIP CODE: <u>871</u>
CONTRACTOR: AGI Conultants ADDRESS: P OP Box 92977 CITY, STATE: Albuquerque, NM	CONTACT: <u>Dave Armstrong</u> PHONE: <u>505.899.0089</u> ZIP CODE: <u>87199</u>
CHECK TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL SOUGHT:
 □ 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) □ ENGINEERS CERTIFICATION (TCL) □ ENGINEERS CERTIFICATION (DRB APPR. SITE PLAN) □ OTHER 	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
WAS A PRE-DESIGN CONFERENCE ATTENDED: YES NO COPY PROVIDED	OTHER (SPECIFY) LAND DEVELOPMENT SECTION

DATE SUBMITTED: July 1, 2015

BY: David Aube P.E.

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

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

CITY OF ALBUQUERQUE

PLANNING DEPARTMENT – Development Review Services



May 9, 2015

Richard J. Berry, Mayor

David Aube, P.E. Hartman + Majewski Design Group 120 Vassar Dr. SE Suite 100 998-6430 Albuquerque, NM 87106

Tierra Antigua Portable Masterplan RE:

Grading & Drainage Plan
Engineer's Stamp Date (3-10-15) (File: F09D010A)

Dear Mr. Aube:

Based upon the information provided in your submittal received 3-11-15, the above referenced plan is approved for Foundation Permit with the following condition:

> Engineer's Certificate is required prior to setting of the portables on the Foundation. Contractor must contact the engineer upon completion of **foundations**

PO Box 1293

Albuquerque

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

New Mexico 87103

www.cabq.gov

Rita Harmon, P.E.

Sincerely

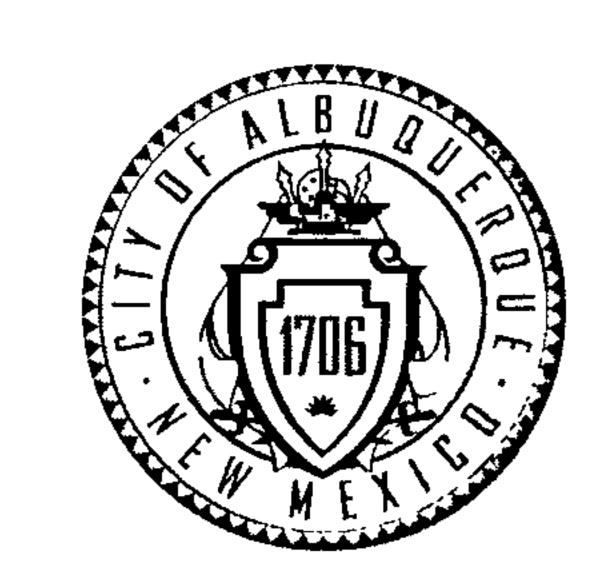
Senior Engineer, Planning Dept. Development Review Services

Drainage file Orig:

Addressee via Email, Monica Ortiz

CITY OF ALBUQUERQUE

March 23, 2015



Davis Aube, P.E. Hartman & Majewski Design Group 120 Vassar Dr. SE Suite 100 Albuquerque, New Mexico 87106

RE: Tierra Antigua Portable Masterplan
Grading and Drainage Plan
Engineers Stamp Date 3/10/15 (C09D010A)

Dear Mr. Aube,

Based upon the information provided in your submittal received 3/11/15, this plan is approved for Grading Permit and Paving Permit.

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

Once the grading and site work has been completed for the number of portables to be requested, submit a certification for foundation permit approval.

PO Box 1293

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

Albuquerque

Sincerely,

New Mexico 87103

Curtis Cherne, P.E.

www.cabq.gov

Principal Engineer, Hydrology

Planning Department

RR/CC C: File

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

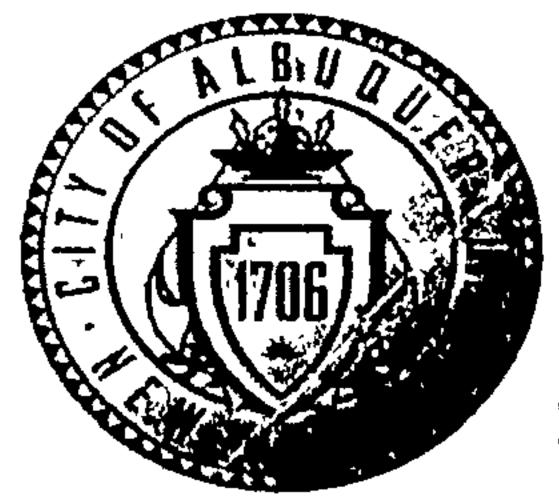
(REV. 1/28/2003rd)

COGDOIOA

PROJECT TITLE: <u>Tierra Antigua Portable Masterplan</u> DRB #: ' EPC#:	ZONE MAP/DRG. FILE #: <u>C-09-Z</u> WORK ORDER#:
LEGAL DESCRIPTION: CITY ADDRESS: 8121 Rainbow Road	
ENGINEERING FIRM: Hartman + Majewski Design Group ADDRESS: 120 Vassar Dr SE, Suite 100 CITY, STATE: Albuquerque, NM 87106	CONTACT: <u>David Aube</u> PHONE: <u>505-998-6430</u> ZIP CODE: <u>87106</u>
OWNER: Albuquerque Public Schools ADDRESS: CITY, STATE: Albuquerque, NM	CONTACT: PHONE: <u>505-</u> ZIP CODE: <u>871</u>
ARCHITECT: Studio Southwest ADDRESS: 120 Vassar Dr SE, Suite 100 CITY, STATE: Albuquerque, NM	CONTACT: <u>Kim Hooker</u> PHONE: 505-998-6442 ZIP CODE: <u>87106</u>
SURVEYOR: Wilson and Co ADDRESS: CITY, STATE: Albuquerque, NM	CONTACT: PHONE: <u>505-</u> ZIP CODE: <u>871</u>
CONTRACTOR: AGI Conultants ADDRESS: P OP Box 92977 CITY, STATE: Albuquerque, NM	CONTACT: <u>Dave Armstrong</u> PHONE: <u>505.899.0089</u> ZIP CODE: <u>87199</u>
CHECK TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL SOUGHT:
 □ DRAINAGE REPORT □ DRAINAGE PLAN 1st SUBMITTAL, <i>REQUIRES TCL or equal</i> □ DRAINAGE PLAN RESUBMITTAL □ CONCEPTUAL GRADING & DRAINAGE PLAN □ GRADING PLAN □ EROSION CONTROL PLAN □ ENGINEER'S CERTIFICATION (HYDROLOGY) □ CLOMR/LOMR □ TRAFFIC CIRCULATION LAYOUT (TCL) □ ENGINEERS CERTIFICATION (TCL) □ ENGINEERS CERTIFICATION (DRB APPR. SITE PLAN) □ OTHER 	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	MAR 1 1 2015 LAND DEVELOPMENT SECTION
DATE SUBMITTED: <u>March 11, 2015</u>	BY: David Aube P.E.
Requests for approvals of Site Development Plans and/or S	Subdivision Plats shall be accompanied by a drainage

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

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



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

		(REV 02/2013)	
Project Title: TEPPA ANTIC	EPC#:	Building Permit #: Work Order#	City Drainage #:
Legal Description: City Address: *12(アルルるか	٠		
Engineering Firm: Address:	······································	Contact:	·
Phone#:	Fax#:	E-mail:	
Owner: Address:		Contact:	
Phone#:	Fax#:	E-mail:	
Architect: 545 Address:		Contact:	
Phone#:	Fax#:	E-mail:	
Surveyor: Address:		Contact:	
Phone#:	Fax#:	E-mail:	
Contractor: Address:		Contact:	<u>.</u> .
Phone#:	Fax#:	E-mail:	
scope to the proposed development defines the deg 1 Conceptual Grading and Drainage Plan 2 Drainage Plans Required for building perr	TCL) NDED: and/or Subdivision ree of drainage de Required for appoints, grading perm	SIA/FINANCIAL GUARANTEE RELEASE PRELIMINARY PLAT APPROVAL S. DEV. PLAN FOR SUB'D APPROVAL S. DEV. FOR BLDG. PERMIT APPROVAL SECTOR PLAN APPROVAL FINAL PLAT APPROVAL CERTIFICATE OF OCCUPANCY (PERM) CERTIFICATE OF OCCUPANCY (TCL TE FOUNDATION PERMIT APPROVAL BUILDING PERMIT APPROVAL GRADING PERMIT APPROVAL WORK ORDER APPROVAL GRADING CERTIFICATION Yes No Copy Provided By: In Plats shall be accompanied by a drainage submittal The stail One or more of the following levels of submittal may roval of Site Development Plans greater than five (5) acres nots, paving permits and site plans less than five (5) acres	SO-19 APPROVAL ESC PERMIT APPROVAL ESC CERT. ACCEPTANCE OTHER (SPECIFY)
4. Erosion and Sediment Control Plan: Required for subdivision 4. project less than 1-acre than are part of a landar control Plan in the part of a landar contr	ured for any new	than ten (10) lots or constituting five (5) acres or more development and redevelopment site with 1-acre or more in of development	of land disturbing area, including
			



WOULD Kinder pickup backed Backedup ane Where Starting wholeminlane D1. C/140 down, f. id bis pickup left ex panc 5 th grade COVERS Fertar . 3-4° Find er to to PICKIND 154 i Te 2

Ends W Bethre in the second 0



can get busy and gets pushed main (left back) lane wich covers Kinder pickup (to the left)
up all the way to the
one side of the main lane, (this photo was taken at 3:30pm, 15 mins. before school ends which is at 3:45pm.) or or other



Cars coming up to pickup thier kids from school. This pleture was taken at 3:30 pm and our school eads at 3:4.5 p so there are still cars to cons up the road and course a Jam. This picture was taken the 32 - 2013. On



1 1 SMC CC AL MARAN porent pick up at 5:30 pm. on

Metro, Kristal D.

From:

Metro, Kristal D.

Sent:

Monday, April 29, 2013 10:36 AM

To:

'Eckert, Martin W'; Korbin, Ted M.

Cc:

Nason, Deborah A.

Subject:

Tierra Antigua Elem School (8121 Rainbow Blvd NW) Complaint Letters

Attachments: Tierra Antigua Elem School Letter 2.pdf; Tierra Antigua Elem School Letter 1.pdf

Mr. Eckert, Mr. Korbin,

The Planning Department received the attached letters from current students at Tierra Antigua Elementary School. They have concerns regarding the operation of their parent drop off/pick up area. As an existing facility, Transportation Development is unable to change the site layout. It appears to be more of a Traffic Operations and/or APS concern.

Sincerely,

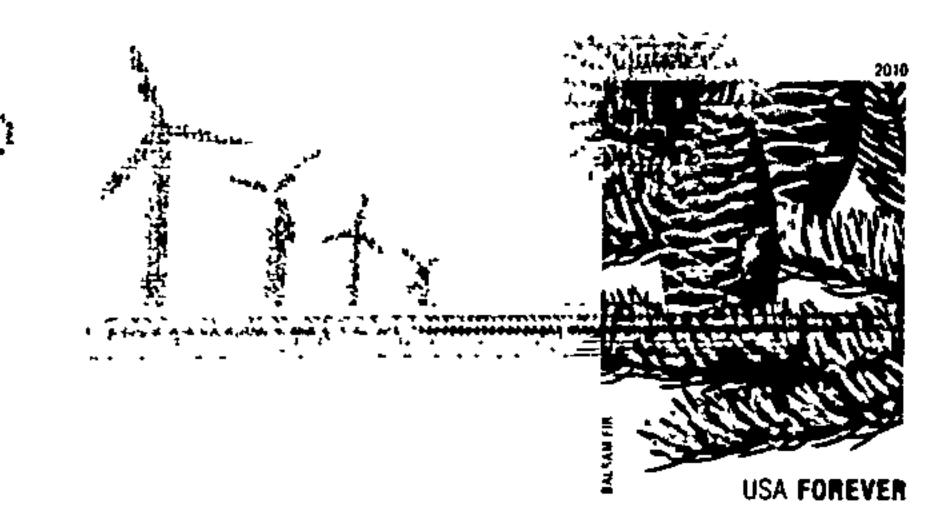
Kristal Metro, City of Albuquerque Transportation Development

C-9/DOIOA

TIERRA ANTIGUA E. S. 8121 Rainbow Blvd NW Albuquerque, NM 87114

ALBUQUERQUE MM SPO

Saved Sold man



Albuquerque City Government Planning Department 600 202 St. NW Albuquerque, NM 87102

8121 Rainbow Blvd., NW Albuquerque, NM 87114 April 22, 2013

Albuquerque City Government
Planning Department
600 2nd St. NW
Albuquerque, NM 87102

Dear Albuquerque City Government:

I am a 5th grade student in Ms. Cindy and Mrs. Nancy's gifted class. We are studying problems in our community. We noticed a problem with our schools parent pick up system. The problem is that it causes long lines and can make students late for class. This is bad because then students have to go to the office to get a tardy slip, and they also may miss out on some important announcements.

If you have any ideas for improvement, can you please explain them? I think that we might be able to widen the road so that more than one car can be coming up or going down. I enclose a picture of our problem so you see what I mean. I think that widening the road will really help speed up the parent pick up system at our school. I hope that this situation can be changed. Thank you for your support.

Sincerely,

Dallin Meredith.

Dollin Meredith





Cars coming up to pickup
thicr kids from school. This
picture was taken at 3:30 pm.
and our school eads at 3:45 pm
so there are still cars to case
up the road and cause a
Jam. This picture was taken
on Monday, the 22nd, 2013.

Posent pick up at 3:30 pm. on Monday the 22,2013. Our school ends at 3:45 pm. so cars are still coming.

TIERRA ANTIGUA E. S. 8121 Rainbow Blvd NW Albuquerque, NM 87114

ALERULERULE CIMERA

DE BUILDING THE ENGLY

2010

Albuquerque City government Planning Department 600 2nd St. NW Albuquerque, NM 87102

ericzezire

8121 Rainbow Blvd. Albuquerque, NM 87114 April 22, 2013

Albuquerque City government Planning Department 600 2nd St. NW Albuquerque, NM 87102

Dear Albuquerque City government Planning Department:

We are studying local problems and how they are dealt with by the government, and we would like you to help us. The problem my class is studying is, trying to widen the road at the South side of Tierra Antigua Elementary School so we can increase parking so then we can decrease the amount of tardies at our school. This will then make it faster to get to school.

My group in Ms. Cyndi and Ms. Nancy's class wants to know if you can give us information on who else could help us and the steps we need to take. We think if we add a lane on the side of the road we could increase parking by having this lane for parallel parking.

Thank you for taking the time to read this letter. Mainly we are asking you if you could help us with widening the road and the steps we need to take. Please contact us at 792-3262 ext. 37844 between the hours of 9:00 am. to 4:00 pm. on week days. (not including Wednesday 9:00 am. to 1:00 pm.) You may also email us at kuchera@aps.edu.

Sincerely,

Nico Mendoza

Nico Menologa



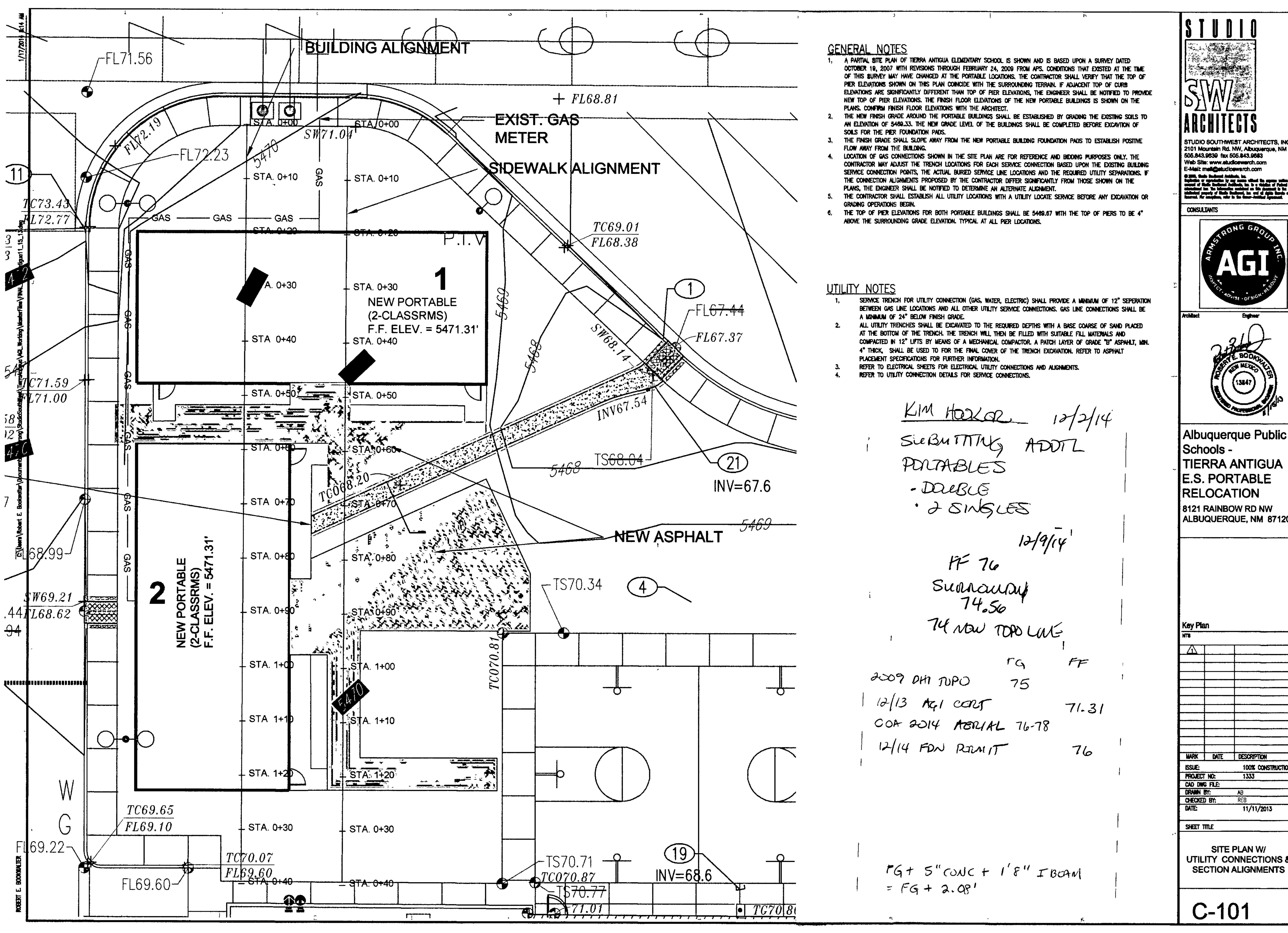


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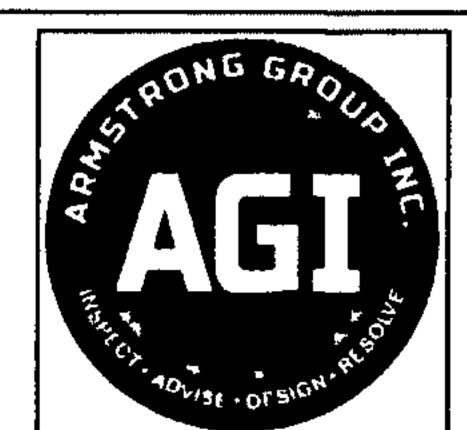
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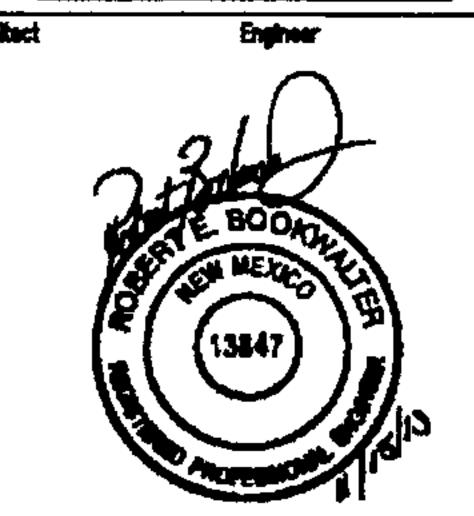
This picture explains How Kinder pickup (to the left) can get busy and gets pushed up all the way to the main (left back) lane wich covers one side of the (this photo was taken at 3:30pm. 15 mins. before school ends which is at 3:45pm.)

Knu Hocker Antique 12/9/14 Surveyor gonny to site Mon to osterblish grades. Just foundation, piers.
- for Foundation Permit 7600 15 word- Return is lower next to next ont t nexe one apportable elev.



STUDIO SOUTHWEST ARCHITECTS, INC. 2101 Mountain Rd. NW, Albuquerque, NM 87104 505.843.9639 fax 505.843.9683 Web Site: www.etudioewerch.com





Albuquerque Public Schools -TIERRA ANTIGUA E.S. PORTABLE RELOCATION

8121 RAINBOW RD NW ALBUQUERQUE, NM 87120

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WARK	DATE	DESCRIPTION
ISSUE		100% CONSTRUCTION DOC
PROJECT	NO:	1333
CAD DW	FLE	
DRAWN	BY:	AB
CHECKE	BY:	RE8
DATE:		11/11/2013

SITE PLAN W/ UTILITY CONNECTIONS &

C-101

Cherne, Curtis

From: Cherne, Curtis

Sent: Friday, January 17, 2014 2:20 PM robertb@agiconsultants.com

Subject: drainage submittals

Robert,

Good afternoon.

When submitting a certification to Hydrology:

- 1. The certification language is required to be on the approved plan.
- 2. The approved plan is "as-built".
- 3. A licensed surveyor shoots the grades.
- 4. Please take the time to review our DPM to understand our processes.
- 5. An information sheet is required as discussed at our last meeting.

I approved the Certificate of Occupancy for this site, even though most items were not completed satisfactorily as a favor to APS. The next certification you submit shall follow accepted procedures.

Curtis



Building Envelope, Structural & Civil Engineering

505.235.7596 Fax 505.899.4436
Po Box 92977, Albuquerque, NM 87199
www.agiconsultants.com mail@agiconsultants.com

January 17, 2014

Tim Simms
City of Albuquerque
Development Review Services

RE: Certification of Grading and Drainage Plan for Tierra Antigua Elementary School,

Portable Building Relocate

Mr. Simms

This is in regards to the Portable Building Relocate Project at Tierra Antigua Elementary School in Albuquerque, NM.

From a site visit conducted on the morning of January 17, 2014 we are satisfied that the grading and drainage of the site as well as the pier elevations for the portable buildings have been constructed and completed as shown on drawing C-101, "Site Plan with Utility Connections and Section Alignments" dated November 11, 2013 for the above reference project.

If there are any other requirements or information needed by the City of Albuquerque to complete the Certificate of Occupancy process for this project, please contact me with those requirements at your earliest convenience.

Sincerely,

Róbert E. Bookwalter, PE

Armstrong Group, Inc.

COUNTY MEXICO TERM ASIANO PROFESSIONAL CHOCK PARTY PARTY PROFESSIONAL CHOCK PARTY P

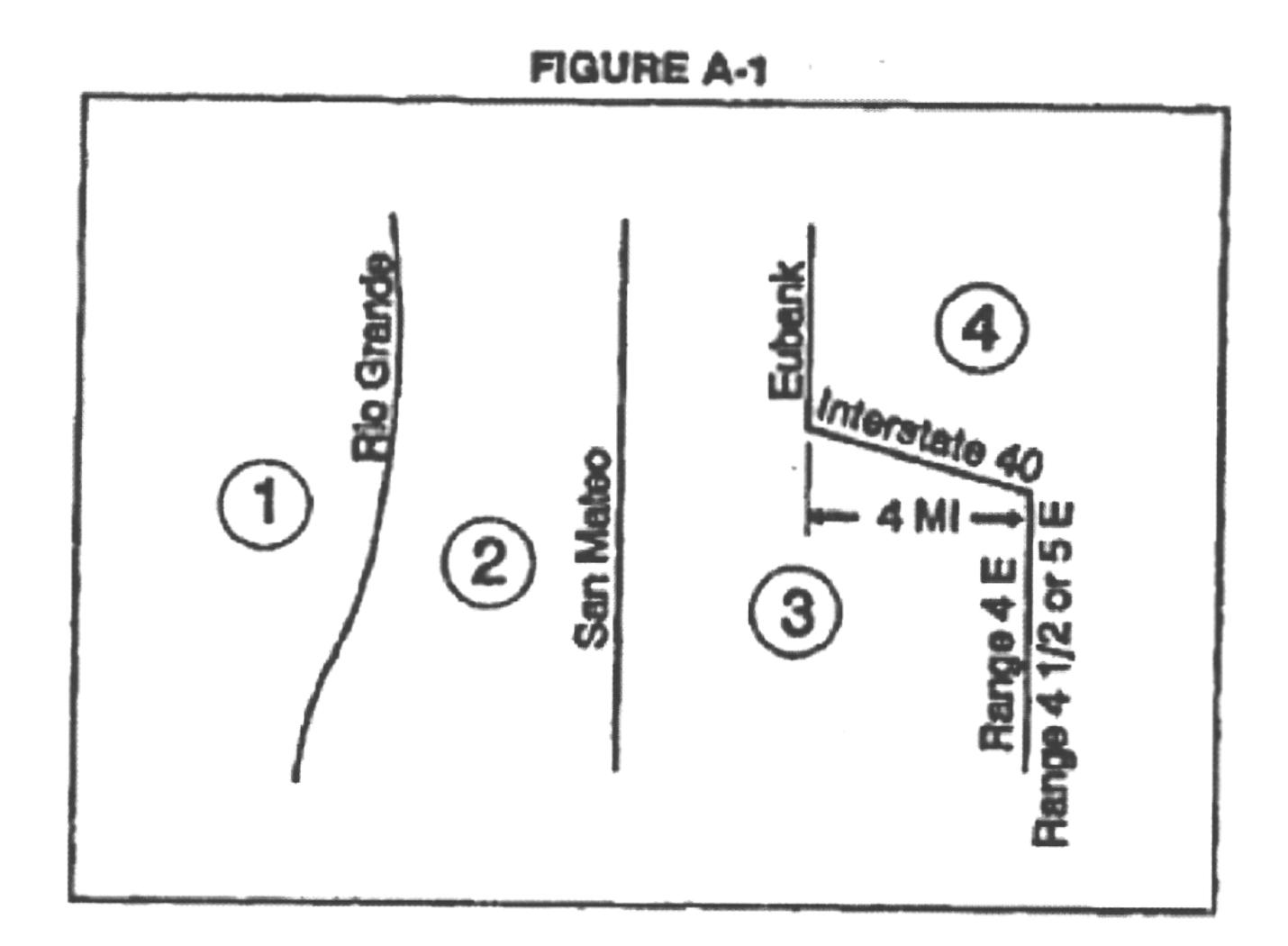
TIERRA ANTIGUA ELEMENTARY SCHOOL – PORTABLE CLASSROOM ADDITIONS

PEAK FLOW AND RUNOFF CALCULATION

Procedure per COA DPM (2008), Section2

PROBLEM: Estimate the net change in peak flow and excess precipitation (volumtric runoff) attributable to additional development that includes 2 portable units in NW area of the property.

Per DPM Figure A-1, property is located in Precipitation Zone 1 (West of Rio Grande)





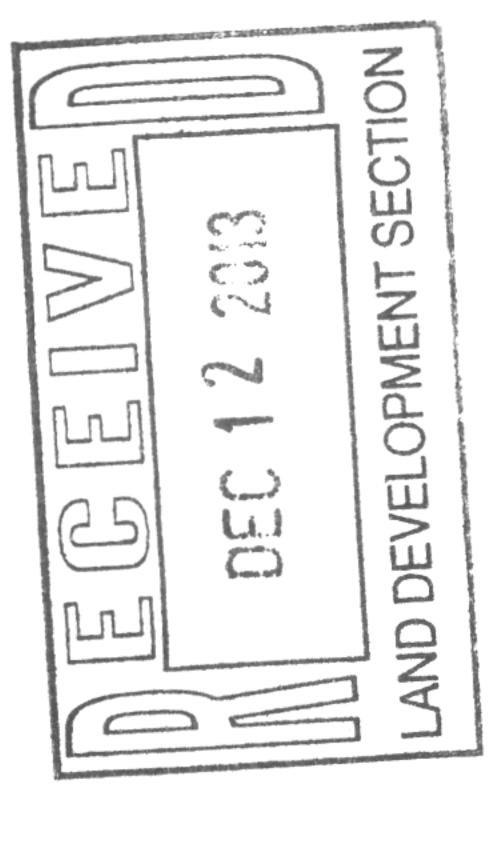


Figure 1 – Aerial photo (Google Maps, 2013) of site.

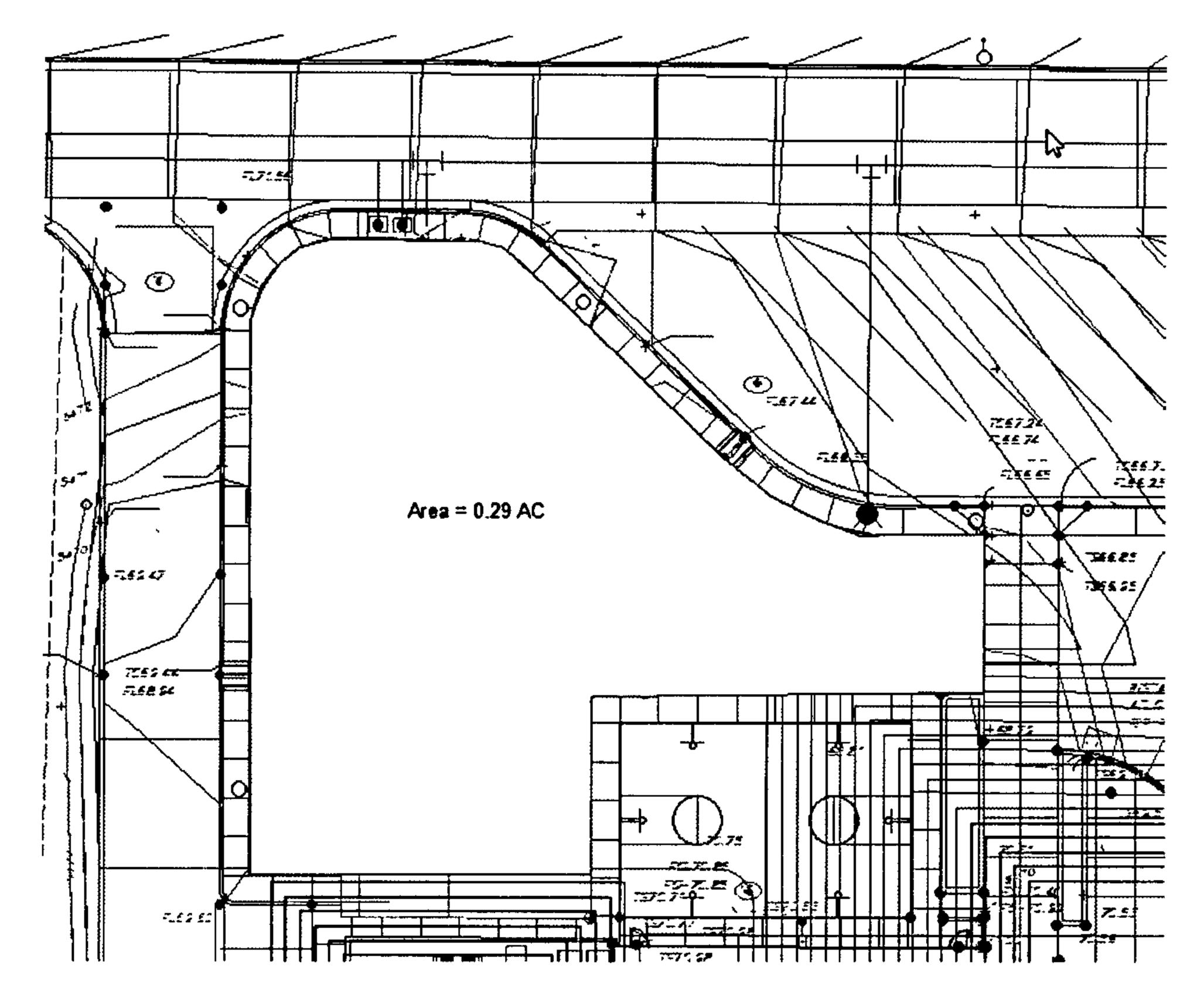
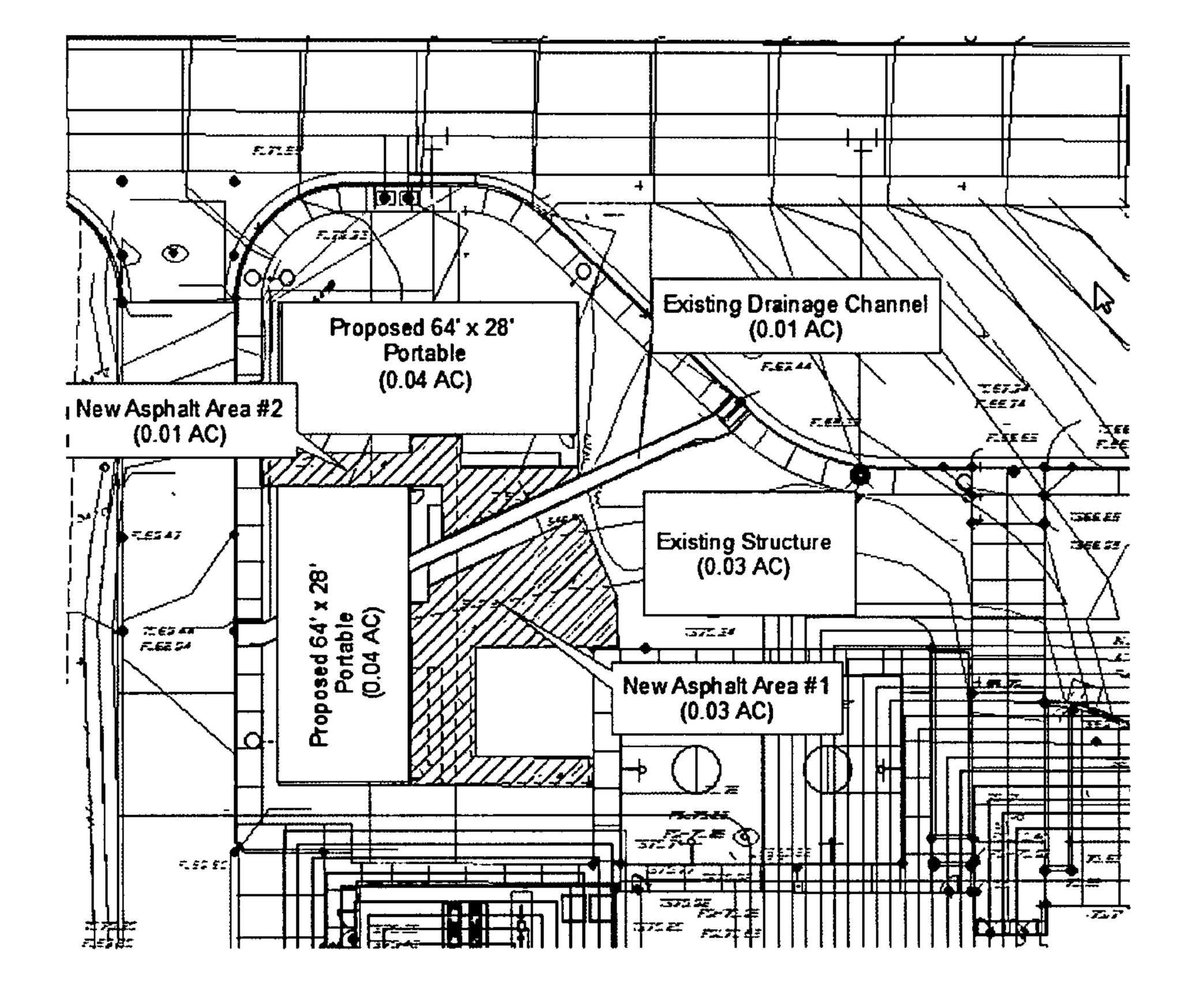


Figure 2. Area of consideration for runoff calculations.



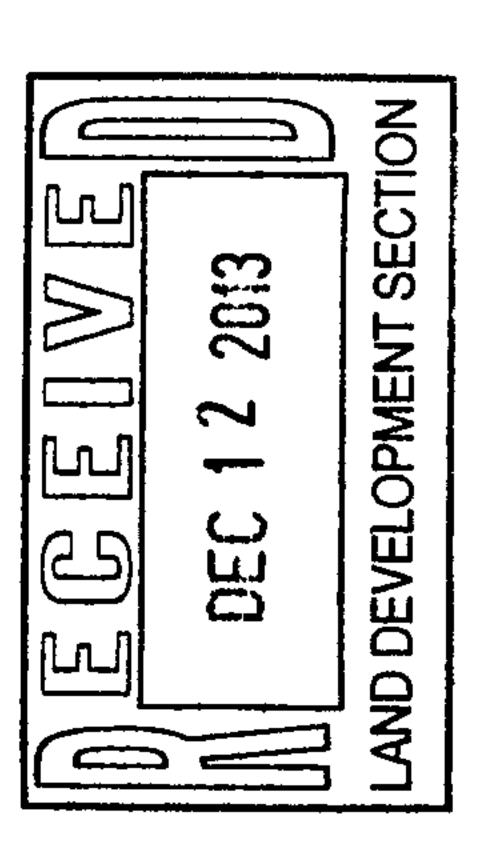


Figure 3. Existing and future structures (impervious areas) in area of consideration.

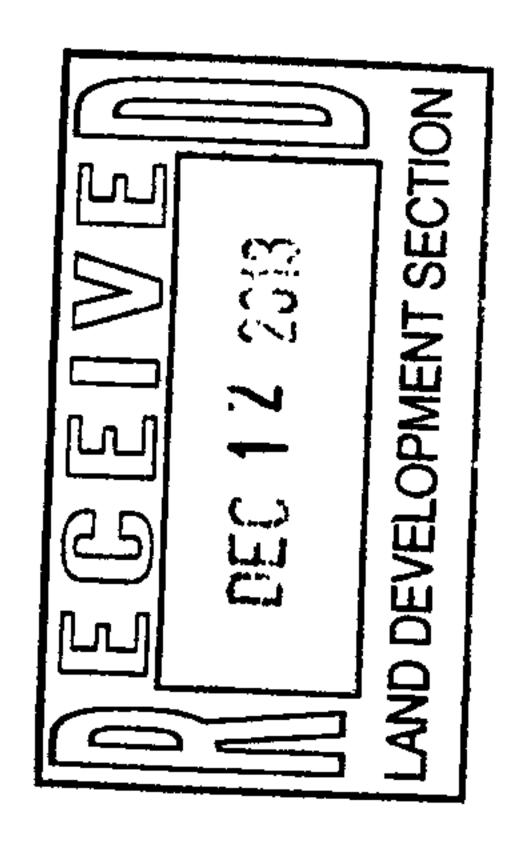
The area of consideration is 0.29 acres in size. Based on site visits and aerial photos, the land condition of the majority of the area of consideration is closest to Treatment type C, per Table A-4. Additionally, there is an existing structure (0.03 AC) and a concrete channel (0.01 AC) currently in the area, which are Treatment type D.

Soil uncompacted by human activity with 0 to 10 percent slopes. Native grasses, weeds and shrubs in typical densities with minimal disturbance to grading, ground cover and infiltration capacity. Irrigated lawns, parks and golf courses with 0 to 10 percent slopes. Native grasses, weeds and shrubs, and soil uncompacted by human activity with slopes greater than 10 percent and less than 20 percent Soil compacted by human activity. Minimal vegetation. Unpaved parking, roads, trails. Most vacant lots. Gravel or rock on plastic (desert landscaping). Irrigated lawns and parks with slopes greater than 10 percent. Native grasses, weeds and shrubs, and soil uncompacted by human activity with slopes at 20 percent or greater. Native grass, weed and shrub areas with clay or clay loam soils and other soils of very low permeability as classified by SCS Hydrologic Soil Group D.	Treatment	Land Condition
B Native grasses, weeds and shrubs, and soil uncompacted by human activity with slopes greater than 10 percent and less than 20 percent. Soil compacted by human activity. Minimal vegetation. Unpaved parking, roads, trails. Most vacant lots. Gravel or rock on plastic (desert landscaping). Irrigated lawns and parks with slopes greater than 10 percent. Native grasses, weeds and shrubs, and soil uncompacted by human activity with slopes at 20 percent or greater. Native grass, weed and shrub areas with clay or clay loam soils and other soils of very low	A	Native grasses, weeds and shrubs in typical densities with minimal
parking, roads, trails. Most vacant lots. Gravel or rock on plastic (desert landscaping). Irrigated lawns and parks with slopes greater than 10 percent. Native grasses, weeds and shrubs, and soil uncompacted by human activity with slopes at 20 percent or greater. Native grass, weed and shrub areas with clay or clay loam soils and other soils of very low	В	Native grasses, weeds and shrubs, and soil uncompacted by human
	, C	parking, roads, trails. Most vacant lots. Gravel or rock on plastic (desert landscaping). Irrigated lawns and parks with slopes greater than 10 percent. Native grasses, weeds and shrubs, and soil uncompacted by human activity with slopes at 20 percent or greater. Native grass, weed and shrub areas with clay or clay loam soils and other soils of very low

Most watersheds contain a mix of land treatments. To determine proportional treatments, measure respective subareas. In lieu of specific measurement for treatment D, the areal percentages in TABLE A-5 may be employed.

Per Chapter 2, Section A.6, the peak discharge for Land Types C and D, in Area 1 are 2.87 cfs/AC and 4.37 cfs/AC, respectively.

	TABLE A-9. P	EAK DISCHAR	GE (CFS/ACRE))			
Zone	100-YR. Treatment [2-YR., 10-YR.]						
45	A	В	C	D			
1	1.29	2.03	(2.87)	(4.37)			
	[0.00, 0.24]	[0.03, 0.76]	[0.47, 1.49]	[1.69, 2.89]			
2	1.56	2.28	3.14	4.70			
	[0.00, 0.38]	[0.08, 0.95]	[0.60, 1.71]	[1.86, 3.14]			
3	1.87	2.60	3.45	5.02			
	[0.00, 0.58]	[0.21,1.19]	[0.78, 2.00]	[2.04. 3.39]			
4	2.20	2.92	3.73	5.25			
	[0.05, 0.87]	[0.38, 1.45]	[1.00, 2.26]	[2.17, 3.57]			



PEAK FLOW

Peak flows are estimated by multiplying the contributory area by the peak discharge factor (Table A-9).

PRE-DEVELOPMENT PEAK FLOW

QP = (2.87 cfs/AC * 0.25 AC) + (4.37 cfs/AC * 0.04 AC)

QP = 0.89 cfs

POST-DEVELOPMENT PEAK FLOW

Development will include addition of 2 portable units (0.08 AC total) and two new asphalt areas (0.04 AC total). Therefore, the final developed condition will include 0.16 AC of impervious area (Treatment Type D) and 0.13 AC of Treatment Type C.

QP = (2.87 cfs/AC * 0.13 AC) + (4.37 cfs/AC * 0.16 AC)

QP = 1.1 cfs

RUNOFF

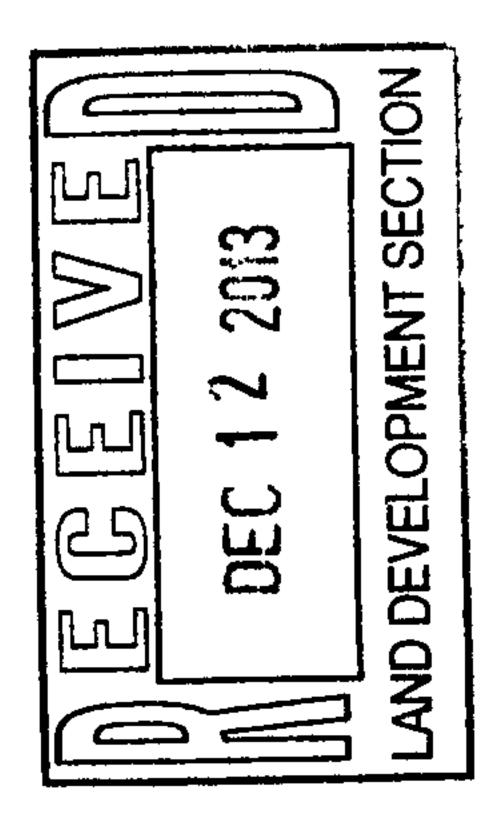
Runoff (excess precipitation) can be estimated by the summation of contributory runoff from sub-areas with different Treatment Types. A sub-area's runoff is equal to its excess precipitation multiplied by its area.

TABLE A	-8. EXCESS PREC	CIPITATION, E (INCHES) - 6 HO	UR STORM	
Zone 100-YR Treatment [2-YR., 10-YR.]					
	A	В	С	D	
1	0.44 [0.00, 0.08]	0.67 [0.01, 0.22]	(0.99) [0.12, 0.44]	[0.72, 1.24]	
2	0.53 [0.00, 0.13]	0.78 [0.02, 0.28]	1.13 [0.15, 0.52]	2.12 [0.79, 1.34]	
3	0.66 [0.00, 0.19]	0.92 [0.06, 0.36]	1.29 [0.20, 0.62]	2.36 [0.89, 1.50]	
4	0.80 [0.02, 0.28]	1.08 [0.11, 0.46]	1.46 [0.27, 0.73]	2.64 [1.01, 1.69]	

PRE-DEVELOPMENT RUNOFF

 $V_{6-hr} = 0.99 \text{ in.} * 1/12 (in./ft.) * 0.25 AC + 1.97 in. + 1/12 (in./ft.) * 0.04 AC$

 $V_{6-hr} = 0.027 AC-ft$



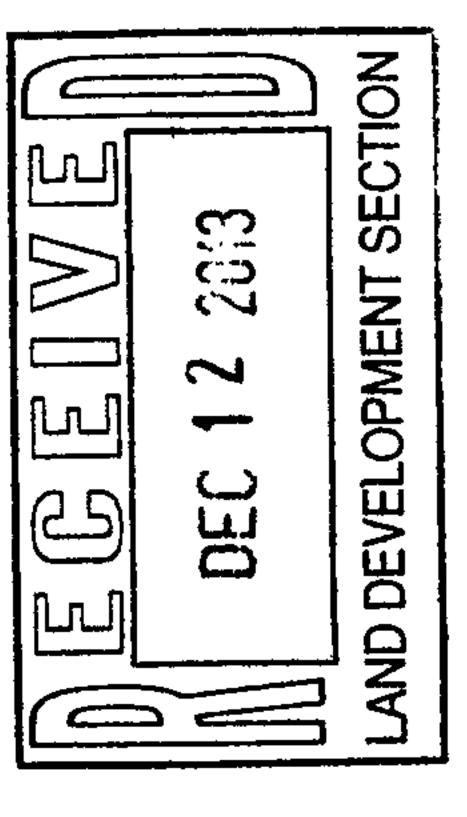
POST-DEVELOPMENT RUNOFF

 $V_{6-hr} = 0.99 \text{ in.} * 1/12 (in./ft.) * 0.13 AC + 1.97 in. * 1/12 (in./ft.) * 0.16 AC$

 $V_{6-hr} = 0.037 AC-ft$

CONCLUSIONS

The site was evaluated as the 0.29 AC portion of the overall development, as shown in Figure 2. Additional development of the site will increase the estimated 100 year peak runoff from 0.89 cfs (existing developed condition) to 1.07 cfs (post-developed condition). This constitutes an increase of approximately 20 percent, but is minimal in terms of the absolute increase. Estimated runoff volume under the 100-yr, 6-hr storm event will increase from 0.027 AC-ft to 0.037 AC-ft, a 37% increase but an absolute increase of only 0.01 AC-ft.



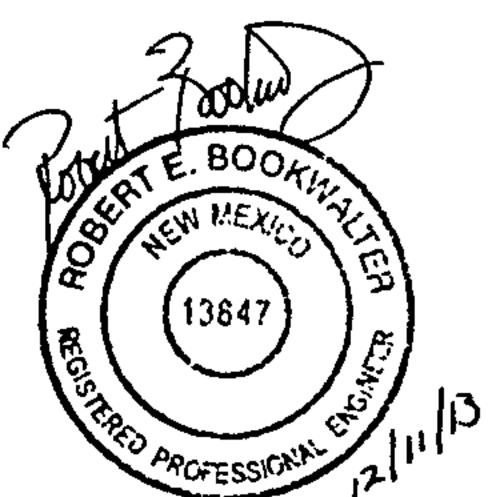
POST-DEVELOPMENT RUNOFF

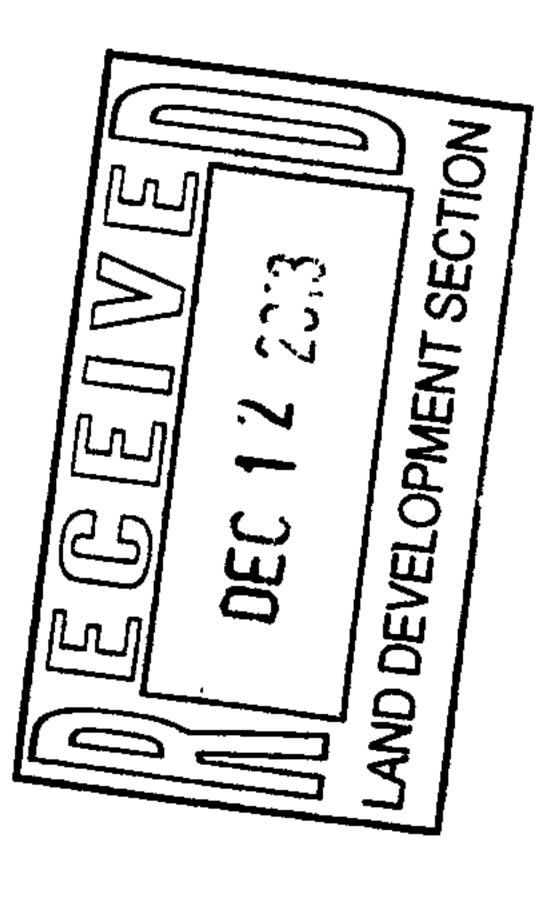
 $V_{\text{thr}} = 0.99 \text{ in.} * 1/12 (in./ft.) * 0.13 AC + 1.97 in. * 1/12 (in./ft.) * 0.16 AC$

V_{6-hr} = 0.037 AC-ft

CONCLUSIONS

The site was evaluated as the 0.29 AC portion of the overall development, as shown in Figure 2. Additional development of the site will increase the estimated 100 year peak runoff from 0.89 cfs (existing developed condition) to 1.07 cfs (post-developed condition). This constitutes an increase of approximately 20 percent, but is minimal in terms of the absolute increase. Estimated runoff volume under the 100-yr, 6-hr storm event will increase from 0.027 AC-ft to 0.037 AC-ft, a 37% increase but an absolute increase of only 0.01 AC-ft.





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CITY OF ALBUQUERQUE



June 15, 2009

Jeffrey Mulbery, P.E. **BOHANNAN-HUSTON, INC.**7500 Jefferson Street NE Courtyard I
Albuquerque, NM 87109

Re: Tierra Antigua Elementary (APS #1), 8121 Rainbow Blvd NW

Permanent Certificate of Occupancy - Approved

Engineer's Stamp dated 3/27/08 (C09/D010A)

Certification dated 06/11/09

Dear Mr. Mulbery,

PO Box 1293

Based upon the information provided in your submittal received 06/11/09, the above referenced certification is approved for release of Permanent Certificate of Occupancy by Hydrology.

Albuquerque

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

NM 87103

Sincerely,

www.cabq.gov

Michael E. Peterson

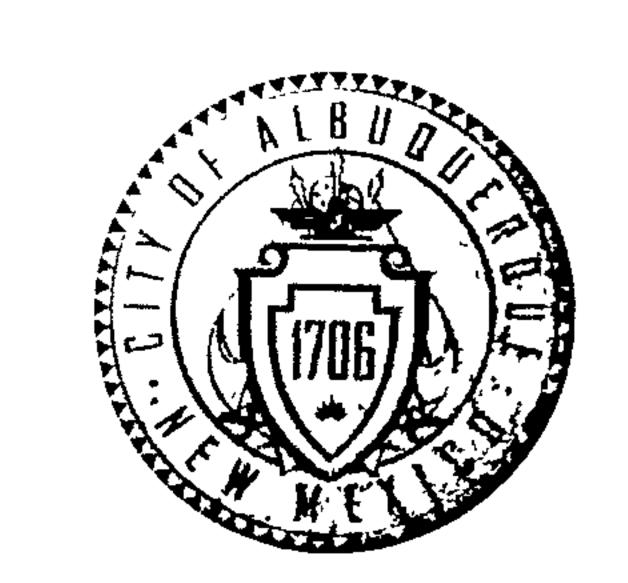
Plan Checker, Intern—Hydrology Development and Building Services

C: CO Clerk—Katrina Sigala File

CITY OF AL' IQUERQUE

PLANNING DEPARTMENT - Development & Building Services

April 10, 2009



Jeffrey L. Mulbery, P.E. Bohannan Huston, Inc. 7500 Jefferson NE – Courtyard 1 Albuquerque, New Mexico 87109

RE: APS Prototype Elementary School # 1; 8121 Rainbow Road NW (C09 - D 010 A) Rev.2 - Grading & Drainage Plan for Building Permit (PE Stamped 03-27-09)

Dear Mr. Mulbery:

Based upon the information provided in your submittal received 3/27/09, the above referenced Revised Grading and Drainage Plan is approved for Building Permit.

It is understood that this revised plan represents near-complete site conditions, and this is the base plan which will be used for the Grade & Drain Certification for Permanent Certificate of Occupancy (CO).

Prior to Permanent Certificate of Occupancy approval, an Engineer's Certification of compliance with this revised Grading and Drainage plan is required per the DPM.

As we have discussed, issuance of a Permanent CO for this facility is also conditioned upon Engineer Certification of the storm drain system shown on this plan as "By Others." This system includes the two Type "A" inlets in the north access road, as well as the on-site storm drains, inlets and ponds, plus the downstream lines and interim ponding facilities.

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

Sincerely,

XC:

PO Box 1293

Albuquerque

NM 87103

www.cabq gov

August 1/2/9 Gregory R. Olson, P.E.

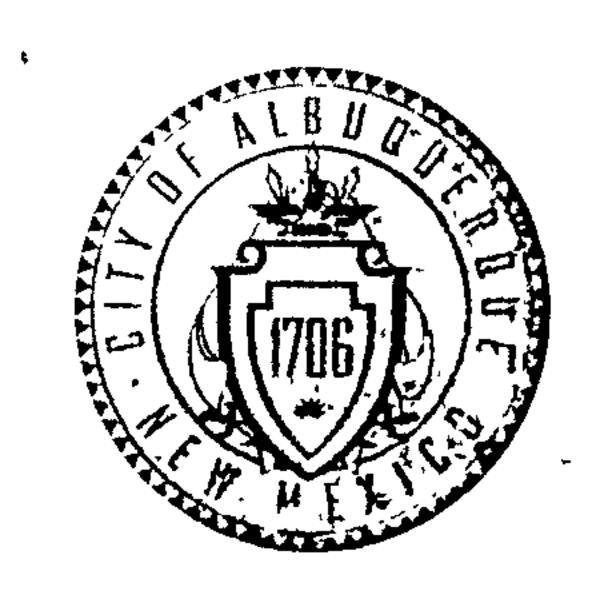
> Brad Bingham Drainage file C09-D010 A

> > 1 of 1

CITY OF ALBU JERQUE.

PLANNING DEPARTMENT - Development & Building Services

July 29, 2008



Jeffrey L. Mulbery, P.E.
Bohannan Huston, Inc.
7500 Jefferson NE – Courtyard 1
Albuquerque, New Mexico 87109

RE: APS Prototype Elementary School # 1; 8121 Rainbow Road NW (C09 – D 010 A) Revised Grading & Drainage Plan for Building Permit (PE Stamped 07-17-08)

Dear Mr. Mulbery:

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

Based upon the information provided in your submittal received 7/18/08, the above referenced Revised Grading and Drainage Plan is approved for Building Permit, conditioned upon compliance with the NPDES/SWPPP requirements discussed below.

This approval is based upon indications from you and High Mesa Consulting Group that two Type "A" inlets will be added to the north access road, to intercept flows at the North pond.

SWPPP: This project requires a National Pollutant Discharge Elimination System (NPDES) permit. You are required to send a copy of the P.E. certified Storm Water Pollution Prevention Plan (SWPPP) on a CD to City of Albuquerque, Storm Drainage Division at:

Department of Municipal Development, Storm Drainage Division P.O. Box 1293, One Civic Plaza, Rm. 301, Albuquerque, NM 87103

If you have any question concerning the SWPPP, please contact Kathy Verhage 768-3654.

Prior to Certificate of Occupancy approval, an Engineer's Certification of compliance with this revised Grading and Drainage plan is required per the DPM.

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

Hugoeyl Ohn 7/29/08

Sincerely,

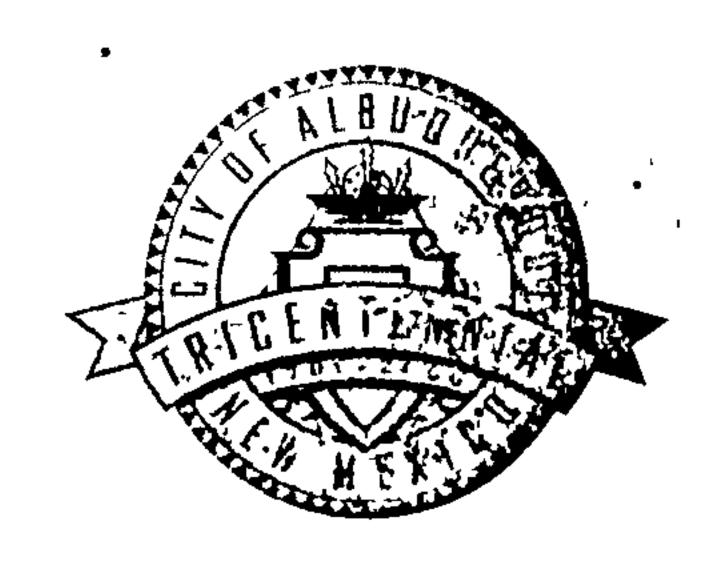
XC:

Gregory R. Olson, P.E.

Brad Bingham
Kathy Verhage, COA/DMD-Storm Drainage
Drainage file C09-D 010 A

1 of 1

CIT. FALBUQUERQUE



January 16, 2008

Jeff Mulberry, PE Bohannan Huston, Inc 7500 Jefferson NE Albuquerque, NM 87109

Re: APS Prototype Elementary School No. 1'Grading and Drainage Plan Engineer's Stamp dated 10-19-07, (C9/D10A)

8121 Rainbown New Keo

Dear Mr. Mulberry,

P.O. Box 1293

Based upon the information provided in your submittal dated 12-12-07, the above referenced plan is approved for Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

-Albuquerque

Also, prior to Certificate of Occupancy release, Engineer Certification of the grading plan per the DPM checklist will be required. Also required will be a copy of the executed public drainage easement and the official release of the existing easement. In addition, the Work Order must be completed as well.

New Mexico 87103

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

www.cabq.gov

Sincerely,

Bradley L. Bingham, PE

Principal Engineer, Planning Dept. Building and Development Services

file

Making History 1706-2006

APS Prototype Elementary School

8121 Rainbow Road NW

North I	Pond
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<u>Basin</u>	Area (SF)	<u>Acres</u>	<u>% D</u>	<u>V(100) 6Hr</u>	+ Ad*1.57"	"V(100)10-Day
1	60,071	1.38	33%	6,038	2,594	8,632
3	26,631	0.61	65%	3,486	2,265	5,751
4	71,434	1.64	60%	9,108	5,608	14,716
5	32,383	0.74	52%	3,840	2,203	6,043
6	12,628	0.29	87%	1,917	1,437	3,354
8	14,921	0.34	50%	1,741	976	2,717
9	128,317	2.95	49%	15,276	8,226	23,502
Totals->	346,385	7.95		41,406	23,309	64,715

South Pond

<u>Basin</u>	Area (SF)	<u>Acres</u>	<u>% D</u>	V(100) 6Hr	+ Ad*1.57"	"V(100)10-Day
2	78,773	1.81	82%	11,585	8,451	20,036
7	27,007	0.62	66%	3,561	2,332	5,893
10	18,768	0.43	100%	3,081	2,455	5,536
11	17,120	0.39	0%	1,184	-	1,184
12	49,967	1.15	0%	3,882	-	3,882
Totals->	191,635	4.40	•	23,293	13,239	36,532

SITE TOTALS

	<u> Area (SF)</u>	<u>Acres</u>	<u>% D</u>	<u>V(100) 6Hr</u>	<u>+ Ad*1.57"</u>	<u>"V(100)10-Day</u>
\sum =	538,020	12.35		64,699	CF	101,246 CF

APS Prototype Elementary School

APS Prototype Elementary School

8121 Rainbow Road NW

Ν	or	th	P	O	n	d
	VI.	LII		v		M

<u>Basin</u>	Area (SF)	<u>Acres</u>	<u>% D</u>	<u>V(100) 6Hr</u>	<u>+ Ad*1.57"</u>	"V(100)10-Day
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8	14,921	0.34	50%	1,741	976	2,717
9	128,317	2.95	49%	15,276	8,226	23,502
Totals->	346,385	7.95		41,406	23,309	64,715

Dasign Cap = 43,275 CF

South Pond

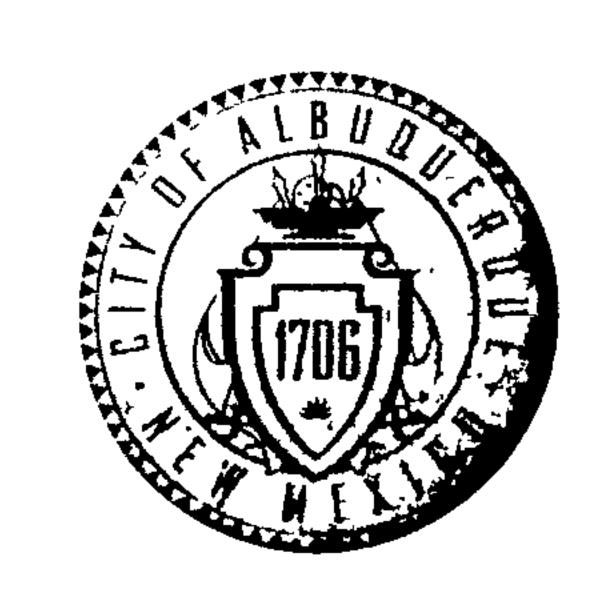
<u>Basin</u>	Area (SF)	<u>Acres</u>	<u>% D</u>	<u>V(100) 6Hr</u>	+ Ad*1.57"	"V(100)10-Day
2	78,773	1.81	82%	11,585	8,451	20,036
7	27,007	0.62	66%	3,561	2,332	5,893
10	18,768	0.43	100%	3,081	2,455	5,536
11	17,120	0.39	0%	1,184	-	1,184
12	49,967	1.15	0%	3,882	-	3,882
Totals->	191,635	4.40		23,293	13,239	36,532

Design Cap = 34,565 cf 13,239

5450.33 5450.33

43,275

CITY OF ALBUQUERQUE



Planning Department Transportation Development Services Section

March 27, 2009

Van H. Gilbert, Registered Architect 2428 Baylor Drive SE Albuquerque, NM 87106

Re:

Certification Submittal for Final Building Certificate of Occupancy for

Albuquerque Public School Prototype Elementary School Site 1, [C-9 /

D010A]

8121 Rainbow Blvd. NW

Architect's Stamp Dated 03/26/09

PO Box 1293

Albuquerque

Dear Mr. Gilbert:

The TCL / Letter of Certification submitted on March 27, 2009 is sufficient for acceptance by this office for final Certificate of Occupancy (C.O.). Notification

has been made to the Building and Safety Section.

NM 87103

Nilo E. Salgado-Fernandez, P.E.

Sénior Traffic Engineer

Development and Building Services

Planning Department

C:

Engineer
Hydrology file
CO Clerk

Van H. Gilbert Architect • PC

Albuquerque Public Schools Prototype Elementary School Site No. 1

TRAFFIC CERTIFICATION

I, <u>Van H. Gilbert</u>, NMRA of the firm <u>Van H. Gilbert Architect PC</u>, hereby certify that this project is in Substantial Compliance with and in accordance with the design intent of the TCL approved plan dated <u>February 8, 2008</u>. The record information edited onto the original Design Document has been obtained by <u>Van H. Gilbert</u> of the firm <u>Van H. Gilbert Architect PC</u>. I further certify that I have personally visited the Project Site on <u>March 26, 2009</u> 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 <u>Certificate of Occupancy</u>.

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.

Signature of Engineer or Architect

3.26.09

Date

N. 97.

CITY OF BUQUERQUE



February 8, 2008

Van H. Gilbert Architect PC 2428 Baylor Dr. SE Albuquerque, NM 87106

Re:

APS Prototype Elementary School Site 1, 8121 Rainbow Blvd NW,

Traffic Circulation Layout

Architect's Stamp dated 1-25-08 (C09-D010A)

Dear Mr. Gilbert,

The TCL submittal received 2-08-08 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.

P.O. Box 1293

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 <u>Drainage and Transportation Information Sheet</u> to Hydrology at the Development Services Center of Plaza Del Sol Building.

Albuquerque

New Mexico 87103

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 <u>Drainage and Transportation Information Sheet</u> to Hydrology at the Development Services Center of Plaza Del Sol Building.

www.cabq.gov

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