

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

September 18, 2003

Gilbert Aldaz, PE Applied Engineering & Survey, Inc. 1605 Blair Dr. NE Albuquerque, NM 87112

Re: Arno Subdivision Grading and Drainage Plan Engineer's Stamp dated 8-11-03 (J14/D146)

Dear Mr. Aldaz,

Based upon the information provided in your submittal dated 8-11-03, the above referenced plan cannot be approved for Preliminary Plat until the following comments are addressed.

- The DPM states that the normal depth can be no higher than the top of curb and the depth plus velocity head (d+v²/2g) cannot exceed 0.2 feet above the top of curb. There will need to be a transition to standard curb somewhere near Arno.
- The retaining wall must be made of masonry or concrete. Railroad tie retaining walls don't work to divert water and the City has had a fair number of complaints from homeowners whose walls have failed. Who will maintain the sediment pond and swales?
- Please provide the benchmark on the plan.

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

Sincerely,

Bradley L. Bingham, PE

Sr. Engineer, Planning Dept

Development and Building Services

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C: file

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

 	eno Subdivision		E#:	
DRB #:	EPC#:	WORK ORDER#:	·	
LEGAL DESCRIPTION: CITY ADDRESS:	Tract R, Lomas 824 Arno Street	and Broadway	Area	
ENGINEERING FIRM:ADDRESS:	Applied Engineering 1605 Blair Drive N	CONTACT:	Gilbert Aldaz 237-1456	
CITY, STATE:	Albug NM	ZIP CODE:	87112	
OWNER: GREAT	TER ALBUQ. Housing 110 229 Street Su	CONTACT:	Louis Kolker 244-1614	
	Albug, NM		87/05	
ARCHITECT:		CONTACT:		
ADDRESS:		PHONE:		
CITY, STATE:	*	ZIP CODE:		
ADDRESS	thwest Surveying 333 Lomas Blud NE Albug., NM	CONTACT: PHONE: ZIP CODE:	Dan Grancy 998-0383 87102	
CONTRACTOR:		CONTACT:		
ADDRESS:		PHONE:		
CITY, STATE:		ZIP CODE:		
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WAS A PRE-DESIGN COL YES NO CORY DROVIDE			AUG 1 1 2003	
COPY PROVIDE			HYDROLOGY SECTION	
DATE SUBMITTED:	70-11-03 BY:BY:	Gilbert Ala	2 Z	
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:				

- Conceptual Grading and Drainage Plan: Required for approval of Site Development Plans greater than five
 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

February 16, 2004

Gilbert Aldaz, PE Applied Engineering & Survey, Inc. 1605 Blair Dr. NE Albuquerque, NM 87112

Re: Arno Subdivision Grading and Drainage Plan

Engineer's Stamp dated 12-30-03 (J14/D146)

Dear Mr. Aldaz,

Based upon the information provided in your submittal dated 12-30-03, the above referenced plan is approved for Preliminary Plat action by the DRB. Once that board has approved the plan, please submit a mylar copy for my signature in order to obtain a Grading Permit.

This project requires a National Pollutant Discharge Elimination System (NPDES) permit. Refer to the attachment that is provided with this letter for details. If you have any questions please feel free to call the Municipal Development Department, Hydrology section at 768-3654 (Charles Caruso) or 768-3645 (Bryan Wolfe).

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

Sincerely,

Bradley L. Bingham, PE

Principal Engineer, Planning Dept Development and Building Services

C: Chuck Caruso, CoA

file

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: ARNO SUBDIVISION DRB #:EPC#:	ZONE MAP/DRG. FILE #:WORK ORDER#:
LEGAL DESCRIPTION: Tract R, Lomas at CITY ADDRESS: 824 Arno Street	
ENGINEERING FIRM: Applied Engineering I ADDRESS: 1605 Blair Drive NE CITY, STATE: Albug NM OWNER: GREATER ALBUR. Housing ADDRESS: 110 2nd Street Sw	CONTACT: Gilbert Aldze PHONE: 237-1456 ZIP CODE: B711Z CONTACT: Louis Kolker PHONE: 244-1614
CITY, STATE: A/bug, NM	PHONE: <u>244-/6/4</u> ZIP CODE: <u>87/05</u>
ARCHITECT: ADDRESS: CITY, STATE: SURVEYOR: Southwest Surveying ADDRESS 333 Lomas Blvd NE CITY, STATE: Albug. NM	CONTACT: PHONE: ZIP CODE: CONTACT: Dan Grancy PHONE: 998-0383 ZIP CODE: 87102
CONTRACTOR: ADDRESS: CITY, STATE:	CONTACT:PHONE:ZIP CODE:
DRAINAGE REPORT DRAINAGE PLAN 1 ^{SI} 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	CHECK TYPE OF APPROVAL SOUGHT: SIA / FINANCIAL GUARANTEE RELEASE PRELIMINARY PLAT APPROVAL S. DEV. PLAN FOR SUBD. 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: 12-30-03	DEC 3 0 2003 HYDROLOGY SECTION HYDROLOGY SECTION
Requests for approvals of Site Development Plans and/or Subsubmittal. The particular nature, location and scope of the proposion or more of the following levels of submittal may be required by 1. Conceptual Grading and Drainage Plan: Required for (5) acres and Sector Plans.	division Plats shall be accompanied by a drainage ed development defines the degree of drainage detail.

- 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

Applied Engineering and Surveying, Inc.

Civil Engineering, Land Planning & Surveying



December 30, 2003

Mr. Bradley L. Bingham, P.E. Senior Engineer Planning Dept Development and Building Services City of Albuquerque P.O. Box 1293
Albuquerque, NM 87103

RE:

RESPONSES TO YOUR COMMENTS DATED SEPTEMBER 18, 2003 FOR THE E.L. PORVENIR SUBDIVISION, (ARNO SUBDIVISION) GRADING AND DRAINAGE PLAN (J-19/D37), ENGINEER'S STAMP DATED AUGUST 11, 2003

Dear Mr. Bingham:

Please consider the following responses to address your comments:

- 1. Please see attached calculations, the plan is to move the sidewalk behind the mountable curb for approximately 95 feet east of Arno Street in-order to maintain the velocity head within a hardscape structure.
- 2. As per our discussions the details for the railroad tie retaining wall show concrete placed in the hole for the railroad ties, also the requirement of depth of burial equal to height should sustain the wall for quite some time. The sediment pond and swales will be maintained by the private property owners, such maintenance language will also be included in the plat.
- 3. A bench mark is now included on the plan.

I have attached a revised copy of the grading and drainage plan, since some of the lots have shifted from the preliminary review. If you should have any questions, please do not hesitate to call me at 237-1456.

Sincerely,

Gilbert Aldaz, P.E. & P.S.

DEC 3 0 2003
HYDROLOGY SECTION

E.L. Porvenir Subd

Street Width = 24 Feet Face to Face Mountable Curb Height = 0.33 feet

Q100 = 6.2 cfs (onsite) + 3.5 cfs (offsite)

Q100 = 9.7 cfs (total), n=0.017

Mannings Equation

5 = 0.5%

d=0.24 { 20/0 20/

QCAP = 5.6cfs V = 1.65 fps

Ed=0.14

Energy Head = D + $\frac{\sqrt{2}}{29}$ = (0.14 + 0.24) + (1.48 + 1.65)² $\frac{1}{2 \times 32.2}$

= 0.42 feet) 0.33 curb height NG Move SIDEWALK BEHIND Mountable Curb For 4 Lots East of ARNO STREET

See Sheet Z for Caucs

E.L. Porvenir Subd.

CALCULATE TRANsition from Std Curb to Mtbl.

Lot Impervious AREA (Typical)
= (25' × 39') Dwelling + (24' × 12') GARAGE
+ (65' × 10') DRYY = 1,913 SF Typical Lot

× 2 Lots = 3,826 SF

Street Frontage = 42.44 feet × [(24' F.to F.

Street Frontage = 42.44-feet x [(24' F.to F. + (0.5' x Z) curb + 2*(4' 50WK)] = 33' x 42.44 = 14005F

Total "D" = 3,826 + 1,4005F = 5,2265F

Total AREA 2 Lots ω / Strect

42.44' × 210' = 8,9125F

Treatment "B" & "C" is 50% Each Remaining Area
= 0.50 * (8,9125F -5,2265F) = 1,8435F

Treatment Area (Acs)B

1,843 sf = 0.04 Ac

1,843 sf = 0.04 Ac

D

5,226 sf = 0.12 Ac

DEC

 $Q = (2.28 \times 0.04) + (3.14 \times 0.04) + (4.70 \times 0.12)$ = 0.78 cfs / 2 lots + 5 + reet

QTOTAL = 9.65-FS, DTOTAL = 0.58 Fèct

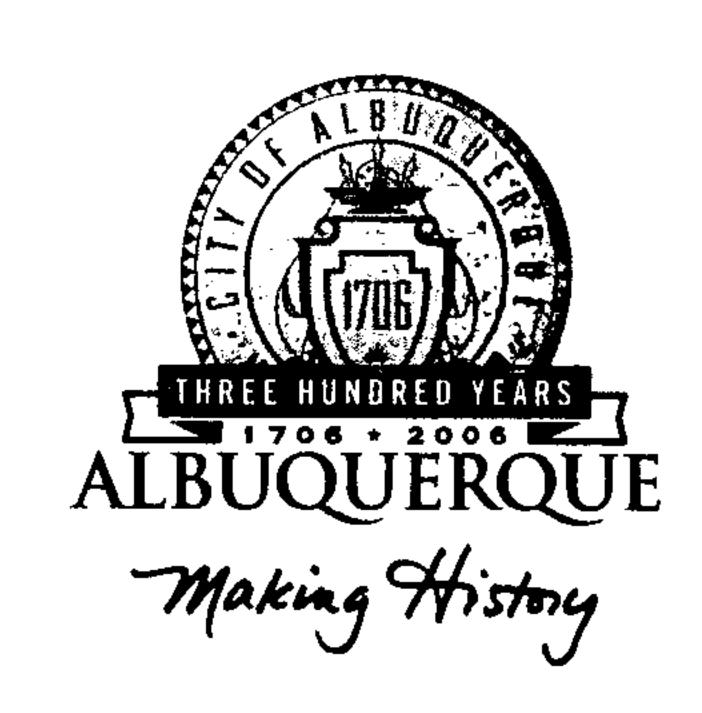
DREAD = 0.33 feet

PROPATE CREATE = $\frac{0.33}{0.38} \times 9.65 \text{ cfs} = 2.38 \text{ of } 4^{"} \text{ curs}$

DEPACT = 9.65 cfs = (2 × 0.78 cfs) = 8.09 cfs L 8.38 cfs 4 vots

5 heet 2

CITY OF ALBUQUERQUE



December 23, 2004

Mr. Gilbert Aldaz, PE

APPLIED ENGINEERING INC.
1605 Blair Drive NE
Albuquerque, NM 87105

RE: EL PORVENIR SUBDIVISION, (J-14/D146)

Engineers Certification for Release of Financial Guaranty

Engineers Stamp dated 12/30/2003

Engineers Certification dated 12/16/2004

Dear Gilbert:

Based upon the information provided in your Engineer's Certification Submittal dated 12/17/2004, the above referenced plan is adequate to satisfy the Grading and Drainage Certification for Release of Financial Guaranty.

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

Albuquerque

P.O. Box 1293

Sincerely,

New Mexico 87103

Arlene V. Portillo

Plan Checker, Planning Dept.- Hydrology

Development and Building Services

www.cabq.gov

C: Marilyn Maldonado, COA# 725491

File

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

EL PORVENIR (REV. 1/28/2003rd)	7141			
DRB #: EPC#:	ZONE MAP/DRG. FILE #:			
	WORK ORDER#:			
LEGAL DESCRIPTION: Tract R, Lomas and CITY ADDRESS: 824 Arno Street	Broadway Area			
CITY ADDRESS: 824 Armo Street				
ENGINEERING FIRM: Applied Engineering Inc				
ENGINEERING FIRM: Applied Engineering Inc. ADDRESS: 1605 Blair Drive NE	CONTACT: Silbert Alds & PHONE: 237-1456			
CITY, STATE: 4/649 N/M	_ PHONE: <u>237-/466</u> _ ZIP CODE: <u>871/2</u>			
OWNER: GREATER ALBUR. Housing ADDRESS: 110 229 Street Sw	CONTACT: Louis Kolker PHONE: 244-1614			
ADDRESS: 110 200 Street Sw	PHONE: 244-1614			
CITY, STATE: Albuq, NM	ZIP CODE: 87/05			
ARCHITECT:	CONTACT:			
ADDRESS:	PHONE:			
CITY, STATE:	ZIP CODE:			
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SURVEYOR Southwest Surveying	CONTACT: Dan Graney PHONE: 998-0383 ZIP CODE: 87102			
ADDRESS 333 Lomas BIVA NE CITY, STATE: Albua. NM	_ PHONE <u>998-0383</u>			
Citt, Sinie	ZIP CODE: 87/02			
CONTRACTOR:	CONTACT:			
ADDRESS:	PHONE:			
CITY, STATE:	ZIP CODE:			
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DRAINAGE REPORT	SIA / FINANCIAL GUARANTEE RELEASE			
DRAINAGE PLAN 1 st SUBMITTAL, REQUIRES TCL or equal	PRELIMINARY PLAT APPROVAL			
DRAINAGE PLAN RESUBMITTAL	S. DEV. PLAN FOR SUBTD. APPROVAL			
CONCEPTUAL GRADING & DRAINAGE PLAN	S. DEV. PLAN FOR BLDG. PERMIT APPROVAL			
GRADING PLAN	SECTOR PLAN APPROVAL			
EROSION CONTROL PLAN ENCINEERS CERTIFICATION (1900)	FINAL PLAT APPROVAL			
ENGINEER'S CERTIFICATION (HYDROLOGY) CLOMR/LOMR	FOUNDATION PERMIT APPROVAL			
TRAFFIC CIRCULATION LAYOUT (TCL)	BUILDING PERMIT APPROVAL			
ENGINEERS CERTIFICATION (TCL)	CERTIFICATE OF OCCUPANCY (PERM.)			
ENGINEERS CERTIFICATION (DRB APPR SITE PLAN)	CERTIFICATE OF OCCUPANCY (TEMP.) GRADING PERMIT APPROVAL			
OTHER	PAVING PERMIT APPROVAL			
	WORK ORDER APPROVAL			
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WAS A PRE-DESIGN CONFERENCE ATTENDED:				
YES	~ ' 2004 U			
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COPY PROVIDED	TOLUGY SECTION			
DATE SUBMITTED: 12-17-0:4 BY: Gilbert Aldaz				
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