CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director



December 10, 2019

Jesse J Luehring, P.E. Critical View Engineering 11501 Modesto Ave NE Albuquerque, New Mexico 87122

RE: Lot 19, Block 6, Unit 19
8000 Camino Alto NW
SAD 228, Volcano Cliffs Subdivision
Grading and Drainage Plan
Engineers Stamp Date 6/13/19 (D10D003B19)

Pad Certification date 12/9/19

Dear Mr. Luehring,

Based upon the information provided in your submittal received 12/9/19, this plan is approved for Building Permit.

PO Box 1293 Please attach a copy of this approved plan to the construction sets in the permitting process prior to sign-off by Hydrology.

Advise the owner/contractor that a separate wall permit must be obtained and this approved grading plan dated 6/13/19, pad certification dated 12/9/19 must be provided with the wall permit application.

Advise the contractor/owner that the ponds must stay in place or CO will not be granted.

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

If you have any questions, please contact me at 924-3999 or Rudy Rael at 924-3977.

Sincerely,

Albuquerque

NM 87103

www.cabq.gov

Shahab Biazar, P.E. City Engineer, Planning Division Manager

RR/SB C: File D10D003B19



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

Project Title:	Building Permit #:	City Drainage #:	
DRB#: EPC#:		Work Order#:	
Legal Description:			
City Address:			
Engineering Firm:		Contact:	
Address:			
Phone#: Fax#:		E-mail:	
Owner:		Contact:	
Address:			
		E-mail:	
Surveyor:		Contact:	
Address:			
Phone#: Fax#:		E-mail:	
Contractor :		Contact:	
Address:			
Phone#: Fax#:		E-mail:	
HYDROLOGY/ DRAINAGE TRAFFIC/ TRANSPORTATION MS4/ EROSION & SEDIMENT CONTROL		PERMIT APPROVAL TE OF OCCUPANCY	
	CERTIFICA	TE OF OCCUPANCY	
TYPE OF SUBMITTAL:	PRELIMINA	ARY PLAT APPROVAL	
ENGINEER/ ARCHITECT CERTIFICATIONSITE PLAN		FOR SUB'D APPROVAL	
CONCERMINAL C O P PI AN		FOR BLDG. PERMIT APPROVAL	
CDADNIC BLAN		ASE OF FINANCIAL GUARANTEE	
DRAINAGE MASTER PLAN		FOUNDATION PERMIT APPROVAL	
DRAINAGE REPORT	· 	GRADING PERMIT APPROVAL	
CLOMR/LOMR	· 	SO-19 APPROVAL	
	PAVING PE	ERMIT APPROVAL	
TRAFFIC CIRCULATION LAYOUT (TCL)	GRADING/	GRADING/ PAD CERTIFICATION	
TRAFFIC IMPACT STUDY (TIS)	WORK ORD	WORK ORDER APPROVAL	
EROSION & SEDIMENT CONTROL PLAN (ESC)	CLOMR/LO	CLOMR/LOMR	
OTHER (SPECIFY)	PRE-DESIGN	MEETING	
		ECIFY)	
IS THIS A RESUBMITTAL?: Yes No	·		
DATE SUBMITTED:	By:		

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED: ____

Critical View Engineering

PO Box 90073 Albuquerque, NM 87199 505-321-5917



Rudy E. Rael BS, CE, CFM City of Albuquerque, Planning Department Assistant Engineer, CRS Coordinator, Hydrology

RE: Pad Certification by Engineer of Record (D10D003B19)

Property Desc: Lot #19, Block #6, Volcano Cliffs Unit #22

I, Jesse J. Luehring, NM Professional Engineer #21684, working on behalf of Critical View Engineering, LLC, hereby certify that the building pad of this property has been built up and graded in substantial conformance to the approved plans dated 6/3/19. Actual pad elevation is shown on the attached as-built drawing, and is consistently within one-tenth of the specified elevation. The holding pond at the North edge of the property is in place and properly sized, however a final certification of the grading after completion of construction activities is still required before Certificate of Occupancy is granted.

The record information edited onto the original design document has been obtained under my supervision, and is true and correct to the best of my knowledge and belief. This certification is for the pad elevation and grading only, and is submitted to support the eventual Certificate of Occupancy for this residence.

Note that the record information presented herewith is not necessarily complete, and intended only to verify substantial compliance of the grading and drainage aspects of the building pad. Those relying on this record document are advised to obtain independent verification of its accuracy. Prior to the issuance of a Certificate of Occupancy, an Engineer Certification per the DPM checklist will be required for the entire site.

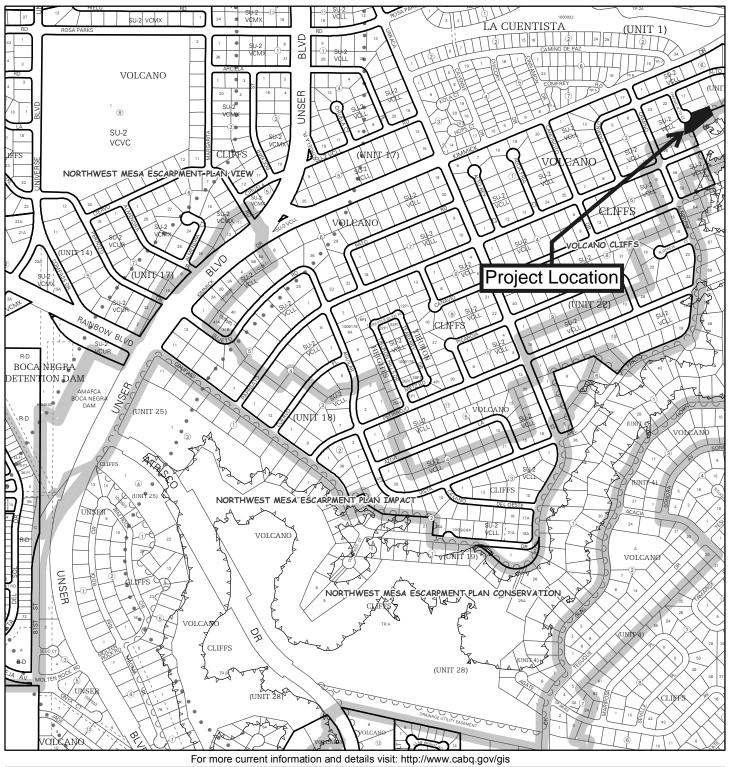
SSIONAL ENGINE

12-9-19

Warm regards,

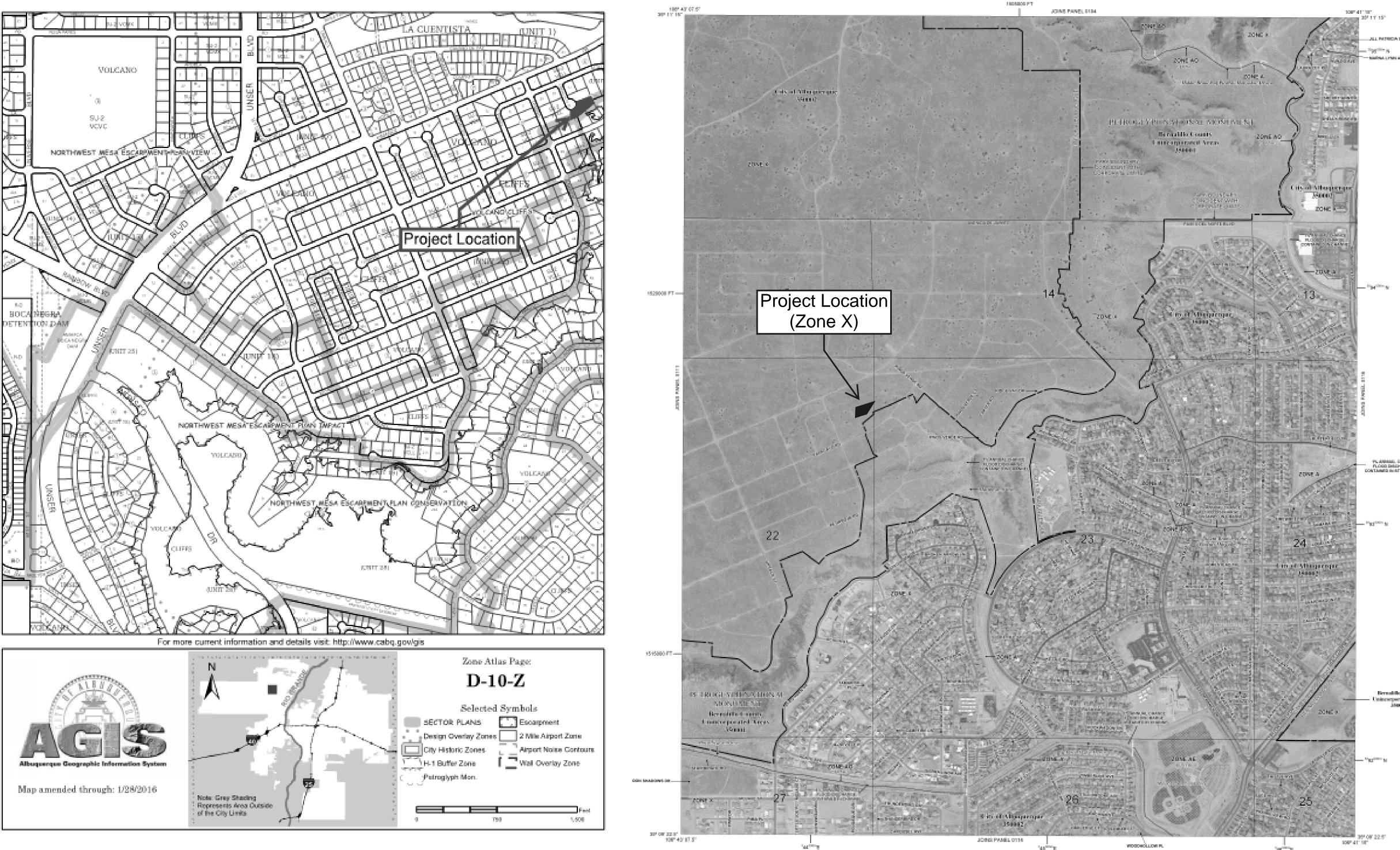
sse Luehring, PE

Attached: Revised Plan reflecting actual pad elevation



Zone Atlas Page: D-10-Z Selected Symbols SECTOR PLANS Escarpment Design Overlay Zones 2 Mile Airport Zone Airport Noise Contours City Historic Zones Wall Overlay Zone H-1 Buffer Zone **Albuquerque Geographic Information System** Petroglyph Mon. Map amended through: 1/28/2016Note: Grey Shading Represents Area Outside of the City Limits Feet 1,500





Vicinity Map

Narrative

This is a grading and drainage plan for the construction of the building pad and general grading for the Lot at address 8000 Camino Alto Ct. NW (Lot #19, Block #6, Volcano Cliffs Subdivision Unit 22, a part of Special Assessment District 228)

The purpose of this plan is to establish the first floor elevation, house layout, retaining wall locations, and general lot drainage of the site. This drainage plan has been prepared in accordance with the latest revision to the City of Albuquerque Development Process Manual, and in accordance with Plate 3 of the SAD 228 Drainage Report dated November 2011. This front portion of this lot (referred to as 'Basin A' in this plan) is designed to drain to the street and eventually to Pond 7 (Basin 204 in SAD 228 drainage report), while the back portion (referred to as 'Basin B' in this plan) is intended to free discharge to the south national monument. There are negligible offsite flows on this property, as the norther adjacent lot detains all runoff on site. The site is located in rainfall 'Zone 1' per the DPM.

FEMA Flood Map

First Flush

The initial 'First Flush' to be managed on this lot is 0.44" less 0.10" initial abstraction, resulting in a net of 0.34" rainfall. This results in a required storage volume of 289 Cu. Ft. in Basin A (draining to the street), and 82 Cu. Ft. in Basin B. These storage volumes will be collected on site and held in the small ponds shown on the Plan.

Engineer's Certification

I, Jesse Luehring, hereby certify that I have inspected the site, and that all existing grades are accurately reflected in the topographic survey obtained to develop this grading and drainage plan.



General Notes

- 1. All perimeter walls shall be permitted separately
- 2. No grading shall be allowed on adjacent properties
- 3. A pad certification is required before the building permit is issued
- 4. An as-built certification is required before certificate of occupancy is issued.
- 5. All disturbed areas shall be stabilized with concrete, gravel, asphalt, or native seed mix
- 6. It is recommended to contract with a licensed geotechnical engineer for all aspects of earthwork and engineered fill material
- 7. Driveway cutout not shown, but shall comply with NM Standard Specs for Public Works Construction, specifically Std Detail 2425

Drainage Intent:

13.8

Existing Conditions: This lot is an 0.4937 Acre property, that is bound to the North by a developed lot which detains all flows. To the West and East the lot is bounded by undeveloped lots, with open space to the South. The lot generally drains to the Southwest, with negligible offsite flows. The SAD 228 DMP assumes partial flows from this lot to the North ('Basin A') and partial flows to the South ('Basin B"). The North drainage flow to the street, which is eventually collected in Pond 7 on Camino Alto St. The south end drainage discharges to the open space.

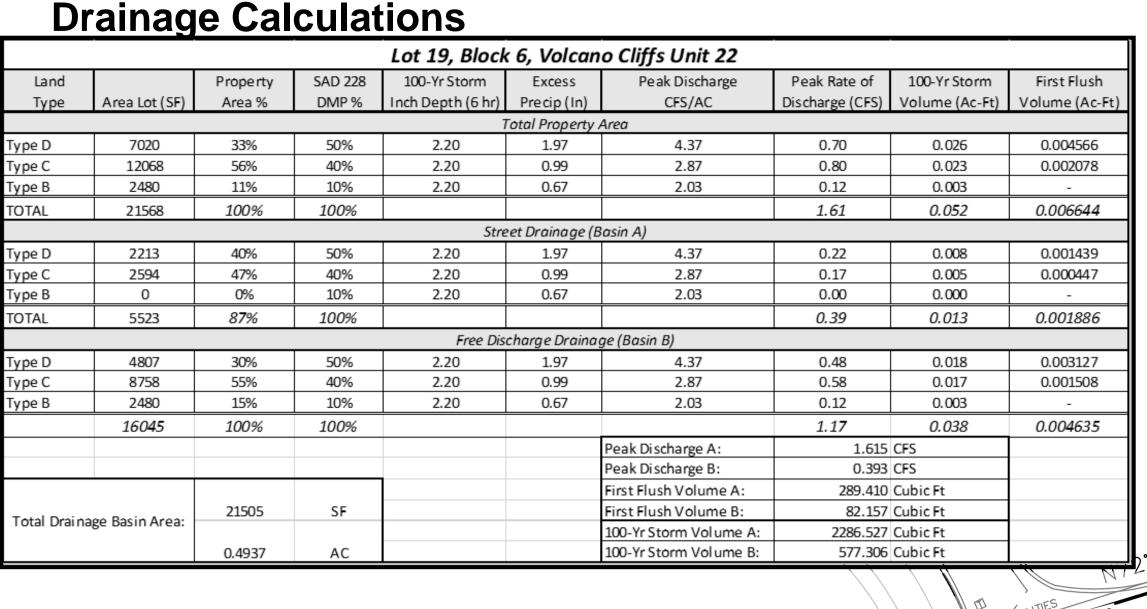
Proposed Conditions: Improvements to the lot include a new residence and concrete driveway that will add approximately 7020 SF of impervious area, or 33% of the property area (SAD 228 DMP allows up to 50%).

Two water quality retention ponds with a combined volume of 763 Cu. Ft. are designed to capture the 'first flush' of approximately 371 CF (289 CF in Basin 'A' and 82 CF in Basin 'B'). The existing sandy loam soils at the site are well drained (hydrologic soil group 'B') which will ensure a short retention time.

Additional improvements will include the construction of approximately 258 LF of varying height, retaining site garden wall (designed by others). These walls may retain up to 4' of soil.

The Basin B flows traversing through this wall will be conveyed through 2 separate CMU blocks turned sideways, which will allow 0.8 CFS of flow each, enough to accommodate the Q max of 1.17 CFS.

Flows in the front of the property (Basin 'A') will flow to a water quality pond at the NW end to the lot, and overflow to the street in heavy rainfall events.



Native Sheet Size: 24 x 36

