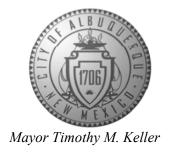
## CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director



July 29, 2020

Jackie McDowell, PE McDowell Engineering, Inc. 7820 Beverly Hills Ave NE Albuquerque, NM 87121

RE: Lot 13 Block 9 Unit 22, S.A.D. 228
Volcano Cliffs Subdivision
6411 Petirrojo Rd. NW
Grading and Drainage Plan
Engineers Stamp Date 7/28/2020 (D10D003Q13)

Ms. McDowell,

Based upon the information provided in your submittal received 7/27/2020, this plan is approved for Grading Permit.

PO Box 1293

Prior to Building permit approval a Pad Certification will be required, provided by the Engineer or a registered Land Surveyor.

Albuquerque

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

NM 87103

Reiterate to the Owner/Contractor that a separate permit for a garden/retaining wall must be obtained, with the approved G&D plan dated 7/28/2020.

www.cabq.gov

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

If you have any questions, please contact me at 924-3986 or Rudy Rael at 924-3977.

Sincerely,

Ernest Armijo, P.E.

Principal Engineer, Planning Dept. Development Review Services



# City of Albuquerque

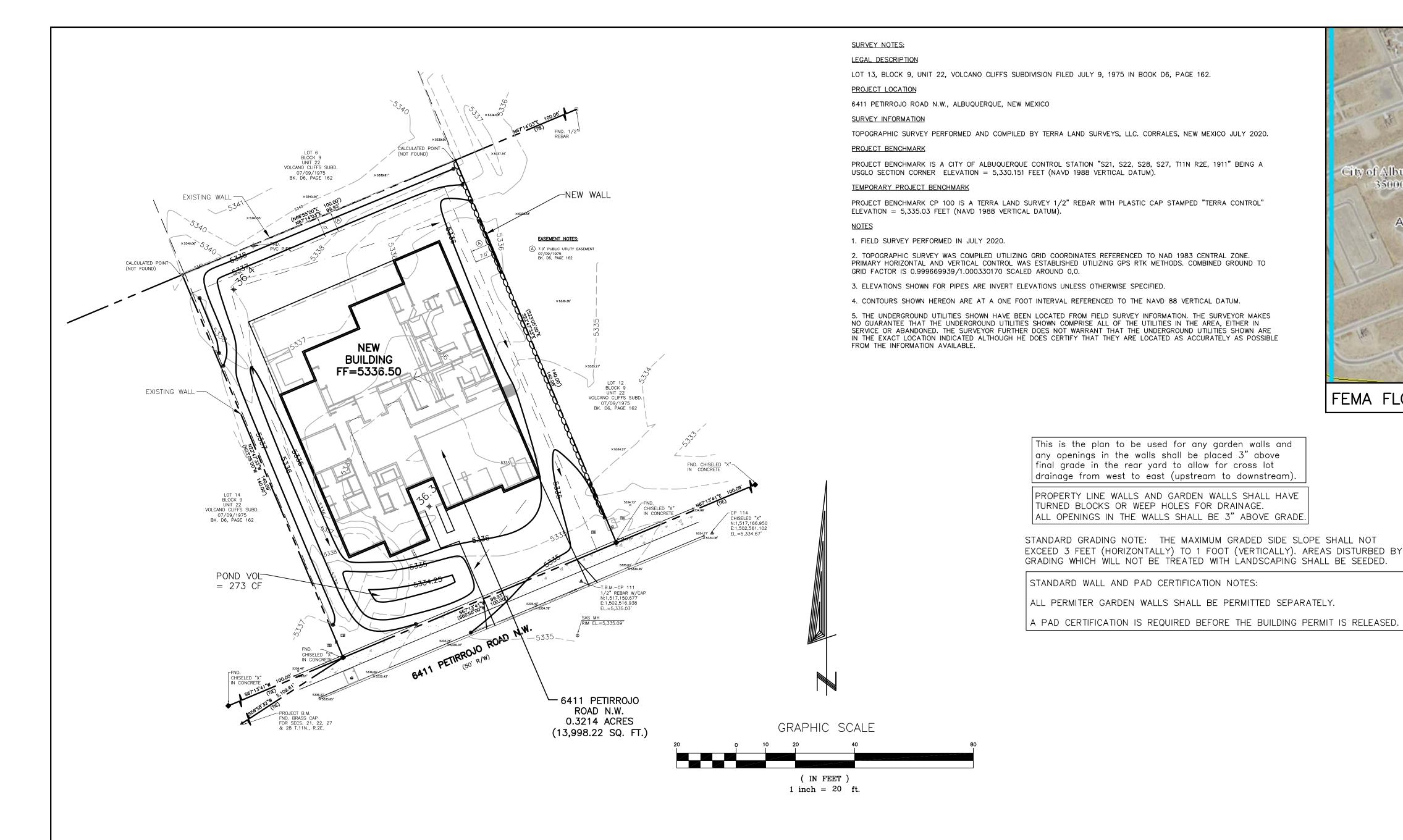
### Planning Department

#### Development & Building Services Division

#### DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: Building Pe		ermit #:	Hydrology File #:			
DRB#:						
Legal Description:						
City Address:						
Applicant:			Contact:			
Address:						
Phone#:	Fax#:		E-mail:			
Other Contact:			Contact:			
Address:						
Phone#:						
TYPE OF DEVELOPMENT:	PLAT (# of lots)	RESIDENCE	DRB SITE ADMIN SI			
IS THIS A RESUBMITTAL?	Yes No					
DEPARTMENT TRANSPO	RTATIONHY	DROLOGY/DRAINAC	GE			
Check all that Apply:  TYPE OF SUBMITTAL:  ENGINEER/ARCHITECT CERTON  CONCEPTUAL G & D PLAN  GRADING PLAN  DRAINAGE REPORT  DRAINAGE MASTER PLAN  FLOODPLAIN DEVELOPMEN  ELEVATION CERTIFICATE  CLOMR/LOMR  TRAFFIC CIRCULATION LAT  TRAFFIC IMPACT STUDY (INCOMPACT STUDY)  OTHER (SPECIFY)  PRE-DESIGN MEETING?	IT PERMIT APPLIC YOUT (TCL) TIS)	TYPE OF APPROVAL/ACCEPTANCE SOUGHT:  BUILDING PERMIT APPROVAL  CERTIFICATE OF OCCUPANCY  PRELIMINARY PLAT APPROVAL  SITE PLAN 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  CLOMR/LOMR  FLOODPLAIN DEVELOPMENT PERMIT  OTHER (SPECIFY)				

FEE PAID:\_\_\_\_\_



DRAINAGE PLAN

SCOPE:

Pursuant to the latest City of Albuquerque and Bernalillo County Ordinances, the Drainage Plan shown hereon outlines the drainage management criteria for controlling developed runoff on and exiting the project site. A single family home is proposed for the site with associated parking, access, landscaping, and utility improvements.

## EXISTING CONDITIONS:

Presently, the 0.32 acre site is undeveloped. The site is bounded on the west, north, and east by private property, and on the south by Petirrojo Rd. NW. The site slopes gently from the northwest to the southeast. As shown on FEMA Panel #112G, the site is not located in a 100 year flood

## PROPOSED CONDITIONS:

Per the SAD 227 and 228 Drainage Reports by Wilson & Company, drainage from the lots have been master planned to be intercepted by drainage features downstream of the properties. First flush ponding is required on all developments. As shown by the plan, the building is located in the center of the lot. Negligible off—site flows enter the site due to existing grades from the north and will continue to be allowed to historically flow through the site. On site flows will drain around the structure to new grades and flow to the ponding area. All roof drainage will discharge from the roof to the lot and be directed around the structure to the drainage paths.

Supplemental calculations are shown as part of this Grading and Drainage

## CALCULATIONS:

The calculations shown hereon define the 100 year—6 hour design storm falling within the project area under existing and developed conditions. The Hydrology is per "Section 22.2, Hydrology of the Development Process Manual, Volume 2, Design Criteria, for the City of Albuquerque, New Mexico in cooperation with Bernalillo County, New Mexico and the Albuquerque Metropolitan Arroyo Flood Control Authority.

## PROPERTY ADDRESS:

6411 Petirrojo Rd. NW

TOPOGRAPHY:

Topographic information provided by Christopher Medina dated July, 2020.

This is the plan to be used for any garden walls and

PROPERTY LINE WALLS AND GARDEN WALLS SHALL HAVE

ALL OPENINGS IN THE WALLS SHALL BE 3" ABOVE GRADE

any openings in the walls shall be placed 3" above

final grade in the rear yard to allow for cross lot drainage from west to east (upstream to downstream).

TURNED BLOCKS OR WEEP HOLES FOR DRAINAGE.

Ibuquerqu 350002

FEMA FLOODWAY MAP

FOUND REBAR (AS NOTED) FOUND CHISELED "X" WATER METER TELEPHONE RISER ELECTRIC BOX

BLOCK WALL

COVERED PORCH

SURVEY LEGEND

△ CONTROL MONUMENT (AS NOTED) STREET SIGN ×53xx.xx SPOT ELEVATION

PANEL #112G

CONCRETE HATCH

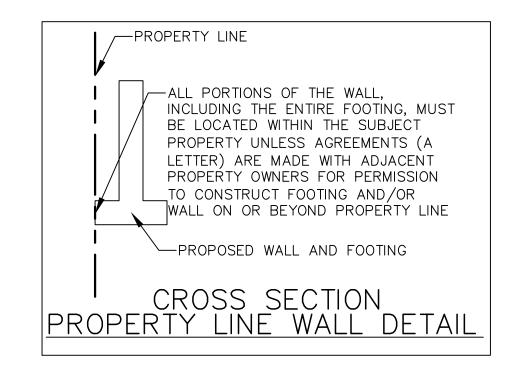
LEGEND **EXISTING** PROPOSED CONTOUR **SETBACK** \_\_\_\_\_\_ RETAINING WALL/WALL  $\infty$ 

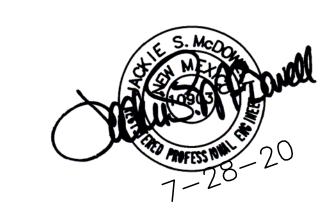
×5321.78

ZONE ATLAS D-10

VICINITY MAP

SPOT ELEVATION





ZONE 1 P(360) = 2.20 inches P(10 day) = 3.67 inchesPOND VOLUME PROVIDED: Areas: (acres) AREA ELEV. VOL. (CF) roposed 5335 624 Treatment A 0.32 0.00 Treatment B 273 reatment C 0.00 5334.25 0.00 Treatment D Total (acres) = 0.32

	Volume	100 year	100 year	10 year	10 year	2 year	2 year
ı		Existing	Proposed	Existing	Proposed	Existing	Proposed
	Volume (acre-feet) =	0.012	0.037	0.002	0.021	0.000	0.010
	Volume (cubic feet) =	511	1,626	93	912	0	456

FIRST FLUSH REQUIRED POND VOL = 0.34"/(12"/FT)\*(0.16 AC \* 43560 SF/AC) = 197 CF

Total Q(p), cfs:						
	100 year	100 year	10 year	10 year	2 year	2 year
	Existing	Proposed	Existing	Proposed	Existing	Proposed
	Q(p)*A	Q(p)*A	Q(p)*A	Q(p)*A	Q(p)*A	Q(p)*A
Treatment A	0.41	0.00	0.08	0.00	0.00	0.0
Treatment B	0.00	0.16	0.00	0.06	0.00	0.0
Treatment C	0.00	0.23	0.00	0.12	0.00	0.0
Treatment D	0.00	0.70	0.00	0.46	0.00	0.2
Total Q (cfs	s) = 0.41	1.09	0.08	0.64	0.00	0.:

ENGINEER'S CERTIFICATION:

I, Jackie S. McDowell, hereby certify that I personally inspected the site shown on this plan on July 25, 2020 and as of that date it appeared that no filling, grading, or excavation had occurred thereon since completion of the topographic survey used to prepare this plan.

6411 PETIRROJO RD. NW, ALBUQUERQUE, NM 87120 CITY OF ALBUQUERQUE, BERNALILLO COUNTY

LOT 13, BLOCK 9, UNIT 22 VOLCANO CLIFFS SUBDIVISION

NEW MEXICO

SOLIS, JAVIER - G & D PLAN

TELE: 505-828-2430 • FAX: 505-821-4857

Checked JSM esigned JSM Drawn STAFF

GENERAL DRAINAGE PLAN NOTES:

1. It is recommended that the Owner obtain a Geotechnical Evaluation of the on—site soils prior to foundation/structural design.

2. This plan recommends positive drainage away from all structures to prohibit ponding of runoff adjacent to the structure. Future alterations of the grades next to the structures are not recommended.

3. Irrigation within 10 feet of any proposed structure is not recommended. Irrigation water adjacent to the structures could cause settlement.

4. This plan establishes on—site drainage and assumes no responsibility for subsurface analysis, foundation or structural design, or utility design.

5. Local codes may require all footings to be placed in natural undisturbed soil. If the contractor plans to place footings on engineered fill, a certification by a registered Professional Engineer is recommended.

6. It is recommended that the Owner obtain the services of a Geotechnical Engineer to test and inspect all earthwork aspects of the project.

7. The property boundary shown on this plan is given for information only to describe the project limits. Property boundary information shown hereon does not constitute a boundary survey.

8. All work shall be constructed in accordance with the City of Albuquerque Standard Specifications for Public Works Construction with updates.

9. All work on this project shall be performed in accordance with applicable Federal, State, and Local laws, rules, and regulations concerning construction safety and health.

10. Contactor shall ensure that no site soils/sediment or silt enters the

righ—of—ways during construction. 11. Areas disturbed due to construction shall be restored per City of Albuquerque Spec. 1012 native seed mix.