CITY OF ALBUQUERQUE

Planning Department
David Campbell, Director

Mayor Timothy M. Keller

November 26, 2018

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

Re: Lot 3 Block 10 Unit 22 Volcano Cliffs, S.A.D. 228
6424 Petirrojo Rd. NW
Request Permanent C.O. – Accepted
Engineer's Stamp dated: 5-10-18 (D10D003F3)
Certification dated: 11/21/18

Dear Ms. McDowell,

PO Box 1293

Based on the Certification received 11/26/2018, the site is acceptable for release of Certificate of Occupancy by Hydrology.

Albuquerque

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

NM 87103

Sincerely,

www.cabq.gov

James D. Hughes, P.E.
Principal Engineer, Hydrology
Planning Department

RR/JDH
C: File D10D003F3

Albuquerque - Making History 1706-2006

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: ERIC ALTENBURG - LOT 3 G&D Building Permit #: _____ Hydrology File #: D10D003F3

DRB#: _____ EPC#: _____ Work Order#: _____

Legal Description: LOT 3, BLOCK 10, UNIT 22 VOLCANO CLIFFS SUB'D

City Address: 6424 PETIRROJO RD. NW, ALB., NM 87120

Applicant: MCDOWELL ENGINEERING, INC. Contact: JACKIE MCDOWELL

Address: 7820 BEVERLY HILLS AVE. NE

Phone#: 505-828-2430 Fax#: 505-821-4857 E-mail: jackmcdowell@comcast.net

Other Contact: BUILDER: RICHARD AYALA Contact: RICHARD AYALA

Address: 1509 CONEJOS DR. SE,RIO RANCHO, NM 87124

Phone#: 505-220-4004 Fax#: _____ E-mail: ayalauno@aol.com

TYPE OF DEVELOPMENT: _____ PLAT (# of lots) X RESIDENCE _____ DRB SITE ___ ADMIN SITE

IS THIS A RESUBMITTAL? _____ Yes X No

DEPARTMENT _____ TRANSPORTATION X HYDROLOGY/DRAINAGE

Check all that Apply:

TYPE OF SUBMITTAL:

X ENGINEER/ARCHITECT CERTIFICATION
____ PAD CERTIFICATION
____ CONCEPTUAL G & D PLAN
____ GRADING PLAN
____ DRAINAGE REPORT
____ DRAINAGE MASTER PLAN
____ FLOODPLAIN DEVELOPMENT PERMIT APPLIC
____ ELEVATION CERTIFICATE
____ CLOMR/LOMR
____ TRAFFIC CIRCULATION LAYOUT (TCL)
____ TRAFFIC IMPACT STUDY (TIS)
____ STREET LIGHT LAYOUT
____ OTHER (SPECIFY) _____
____ PRE-DESIGN MEETING?

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

____ BUILDING PERMIT APPROVAL
X 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) REV. G&D FOR RET. WALL

DATE SUBMITTED: 11-21-18 By: JACKIE MCDOWELL

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____

SURVEY NOTES:

PROJECT LOCATION

6424 PETIRROJO ROAD N.W., ALBUQUERQUE, NEW MEXICO

SURVEY INFORMATION

TOPOGRAPHIC SURVEY PERFORMED AND COMPILED BY TERRA LAND SURVEYS, LLC. CORRALES, NEW MEXICO MARCH 2018.

PROJECT BENCHMARK

PROJECT BENCHMARK IS A CITY OF ALBUQUERQUE CONTROL STATION "S21, S22, S28, S27, T11N R2E, 1911" BEING A USGLO SECTION CORNER ELEVATION = 5,330.151 FEET (NAVD 1988 VERTICAL DATUM).

TEMPORARY PROJECT BENCHMARK

PROJECT BENCHMARK CP 104 IS A TERRA LAND SURVEY 1/2" REBAR WITH PLASTIC CAP STAMPED "TERRA CONTROL" ELEVATION = 5,340.37 FEET (NAVD 1988 VERTICAL DATUM).

NOTES

1. FIELD SURVEY PERFORMED IN MARCH 2018.

2. TOPOGRAPHIC SURVEY WAS COMPILED UTILIZING GRID COORDINATES REFERENCED TO NAD 1983 CENTRAL ZONE. PRIMARY HORIZONTAL AND VERTICAL CONTROL WAS ESTABLISHED UTILIZING GPS RTK METHODS. COMBINED GROUND TO GRID FACTOR IS 0.999669939/1.000330170 SCALED AROUND 0,0.

3. ELEVATIONS SHOWN FOR PIPES ARE INVERT ELEVATIONS UNLESS OTHERWISE SPECIFIED.

4. CONTOURS SHOWN HEREON ARE AT A ONE FOOT INTERVAL REFERENCED TO THE NAVD 88 VERTICAL DATUM.

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

11. Areas disturbed due to

STANDARD GRADING NOTE: THE MAXIMUM GRADED SIDE SLOPE SHALL NOT EXCEED 3 FEET (HORIZONTALLY) TO 1 FOOT (VERTICALLY). AREAS DISTURBED BY GRADING WHICH WILL NOT BE TREATED WITH LANDSCAPING SHALL BE SEEDED.

STANDARD WALL AND PAD CERTIFICATION NOTES:

ALL PERMITER GARDEN WALLS SHALL BE PERMITTED SEPARATELY.

A PAD CERTIFICATION IS REQUIRED BEFORE THE BUILDING PERMIT IS RELEASED.

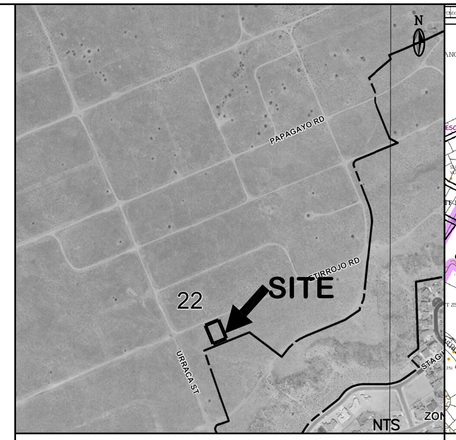
This is the plan to be used for any garden walls and any openings in the walls shall be placed 3" above final grade in the rear yard to allow for cross lot drainage from west to east (upstream to downstream).

PROPERTY LINE WALLS AND GARDEN WALLS SHALL HAVE TURNED BLOCKS OR WEEP HOLES FOR DRAINAGE. ALL OPENINGS IN THE WALLS SHALL BE 3" ABOVE GRADE.

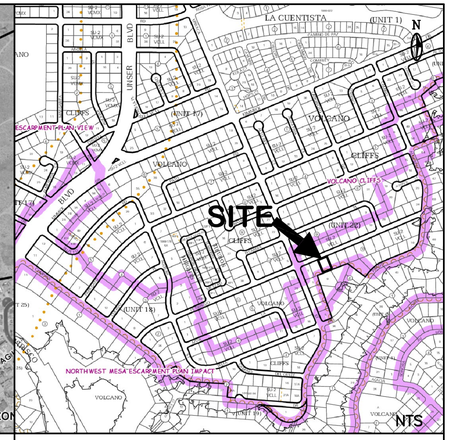
GRAPHIC SCALE

20 0 10 20 40 80

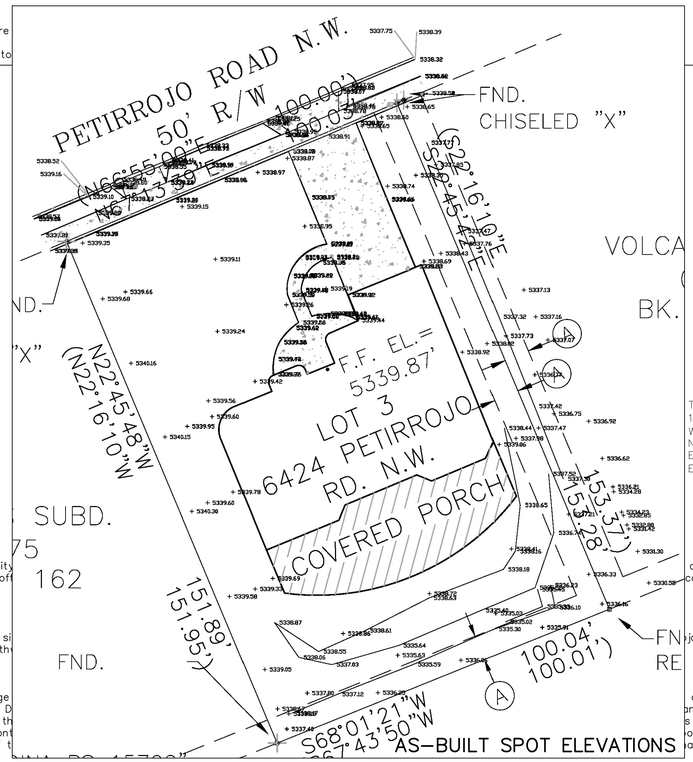
(IN FEET)
1 inch = 20 ft.

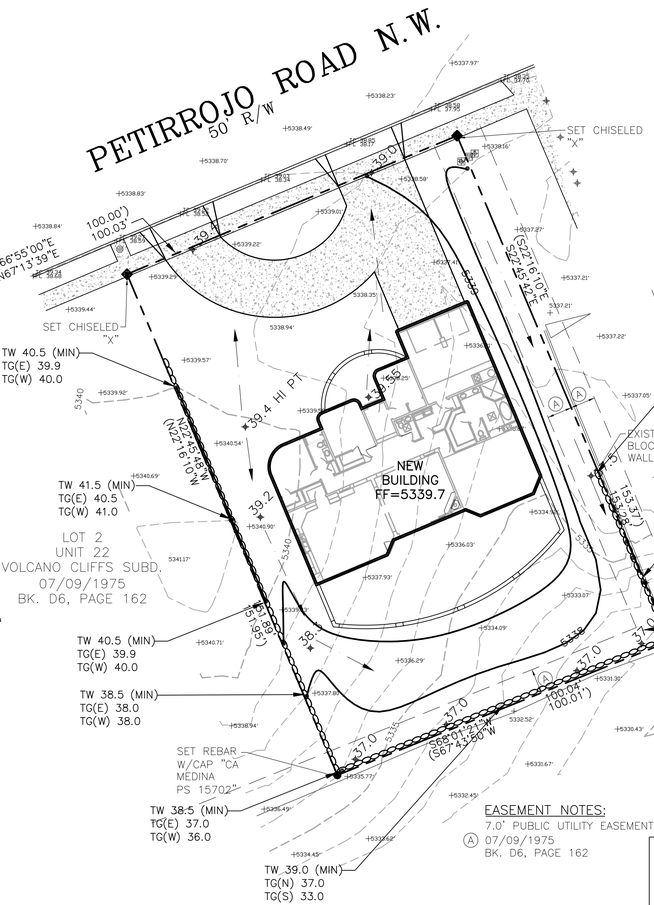


FEMA FLOODWAY MAP PANEL #112G



VICINITY MAP ZONE ATLAS D-10





6424 PETIRROJO
ROAD N.W.
0.3504 ACRES
(15,262.50 SQ. FT.)

WALL OPENING CALCULATIONS:
1 Turned Block
Weir Equation
Q=CLH^3/2
Q(max) = 1.04 cfs (total site runoff)
C=3
H=0.5 ft
L=0.5 ft
for 1/2 block, 6" x 6" opening
Q=0.53 cfs capacity, so for the full block, the total block capacity = 1.06 cfs
therefore, 1 turned block is adequate and 4 turned blocks are provided

LEGEND

	EXISTING	PROPOSED
CONTOUR	6045	6045
PROPERTY LINE		
ROAD		
SETBACK		
RETAINING WALL/WALL		
SPOT ELEVATION	5338.23'	XXXX

DRAINAGE CERTIFICATION WITH SURVEY WORK BY PROFESSIONAL SURVEYOR

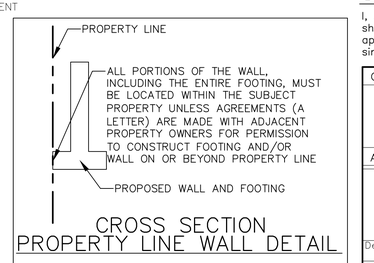
I, Jackie Mcdowell, NMPE #10903, of the firm McDowell Engineering, Inc., hereby certify that this project has been graded and will drain in substantial compliance with and in accordance with the design intent of the approved plan dated 10-10-18. The record information edited onto the original design document has been obtained by Chrisotpher Medina, NMPS #15702 of the firm Terra Land Surveys, LLC. I further certify that I have personally visited the project site on November 21, 2018 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. The record information presented hereon is not necessarily complete and intended only to verify substantial compliance of the grading and drainage 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.

10-10-18
ADDED A RETAINING WALL ALONG THE SOUTHEAST CORNER OF THE PROPERTY FOR A MORE LEVEL BACK YARD.

5-10-18
REV. 5-17-18
REV. 10-10-18
REV. FOR CO 11-21-18

ENGINEER'S CERTIFICATION: CERTIF. FOR CO 11-21-18

I, Jackie S. McDowell, hereby certify that I personally inspected the site shown on this plan on March 28, 2018 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.



CROSS SECTION
PROPERTY LINE WALL DETAIL

DRAINAGE PLAN

SCOPE:

Pursuant to the latest City controlling developed runoff improvements.

EXISTING CONDITIONS:

Presently, the 0.35 acre si site slopes from the north

PROPOSED CONDITIONS:

Per the SAD 228 Drainage properties. Current COA D this plan. As shown by th and will be allowed to cont the southeasterly side of t

criteria for caping, and utility

jo Road NW. The RE

downstream of the and is included on s on adjacent lots ond located along age paths and pond.

Supplemental calculations are shown as part of this Grading and Drainage plan.

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:

6424 Petirrojo Rd. NW

TOPOGRAPHY:

Topographic information provided by Christopher Medina, Terra Land Surveys, LLC. dated March 26, 2018.

GRADING
4-28-18
1=20
ALT0118L

CITY OF ALBUQUERQUE, BERNALILLO COUNTY NEW MEXICO

LOT 3, BLOCK 10, UNIT 22
VOLCANO CLIFFS SUBDIVISION

AYALA - ALTERNBURG - 6424 PETIRROJO - GRADING & DRAINAGE PLAN

McDowell Engineering, Inc.
7820 BEVERLY HILLS AVE. NE • ALBUQUERQUE, NM 87122
TELE: 505-828-2430 • FAX: 505-821-4857

Designed	Drawn	Checked	Sheet	of
JSM	STAFF	JSM	1	1

File ALT0118L Date APRIL,2018


Bobcat


Bobcat