CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director

Mayor Timothy M. Keller

May 9, 2022

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

RE: Lot 27 Block 6 Unit 18, S.A.D. 228
Volcano Cliffs Subdivision
6527 Pato Rd. NW
Grading and Drainage Plan
Engineers Stamp Date 7/9/2020
CO Cert Date: 5/6/2022 (D10D003M27)

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

Ms. McDowell,

Based upon the information provided in your submittal received 5/9/2022, this plan is approved for Certificate of Occupancy by Hydrology

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: ADRIAN MARTINEZ - LOT 27 G&D Building Permit #:_____ Hydrology File #: D10D003M27

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

Legal Description: LOT 27, BLOCK 6, UNIT 18, VOLCANO CLIFFS SUB'D

City Address: 6527 PATO RD. NW, Albuquerque, NM 87120

Applicant: MCDOWELL ENGINEERING, INC. Contact: JACKIE MCDOWELL

Address: 7820 BEVERLY HILLS AVE. NE, ALBUQUERQUE, NM 87122

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

Other Contact: ADRIAN MARTINEZ Contact: ADRIAN MARTINEZ

Address: 9320 SAGUARO ST. NW

Phone#: 505-350-8920 Fax#: _____ E-mail: umz10@hotmail.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

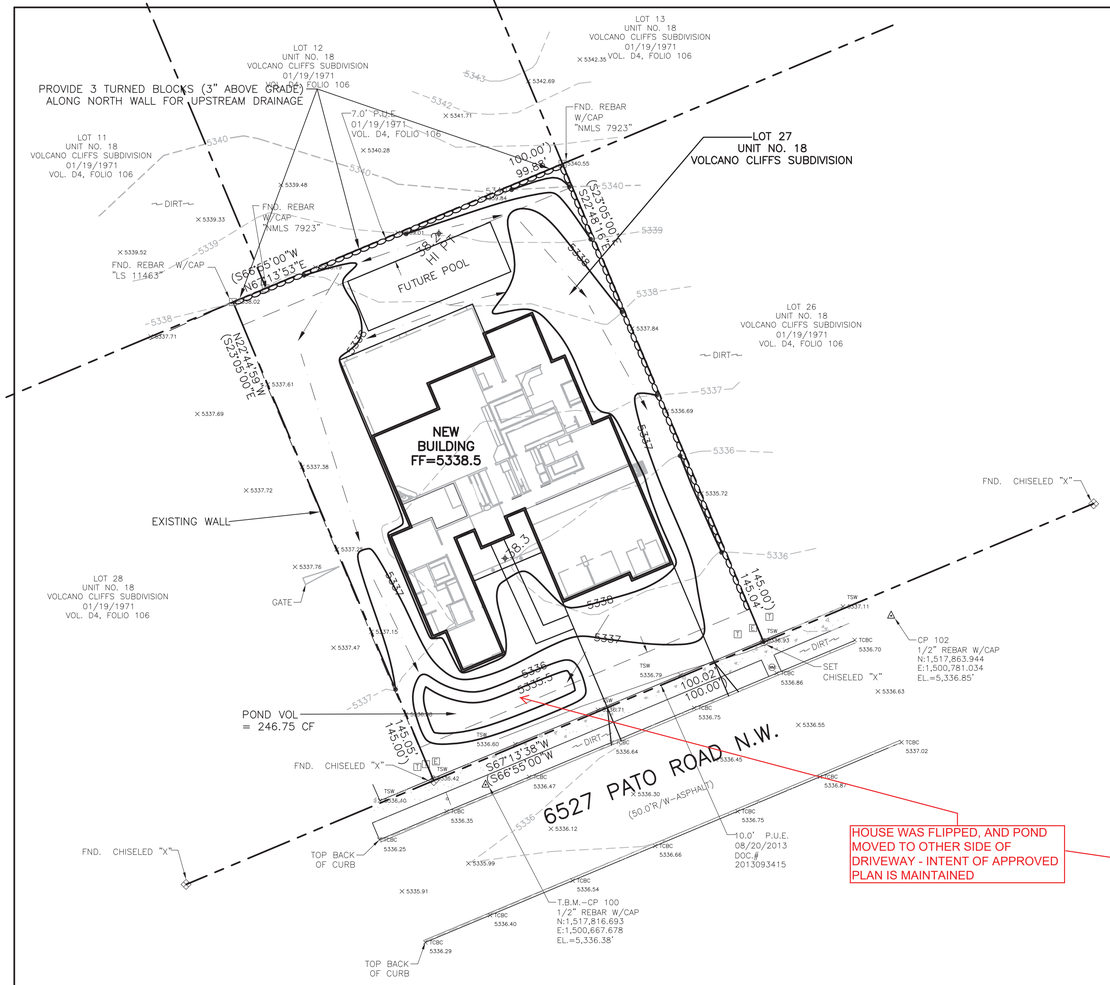
____ PRELIMINARY PLAT APPROVAL
____ SITE PLAN FOR SUB'D APPROVAL
____ SITE PLAN FOR BLDG. PERMIT APPROVAL
____ FINAL PLAT APPROVAL

____ 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) _____

DATE SUBMITTED: 5-6-22 By: JACKIE MCDOWELL

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED:_____

FEE PAID:_____



SURVEY NOTES:

PROJECT LOCATION

6527 PATO ROAD, ALBUQUERQUE, NEW MEXICO

SURVEY INFORMATION

TOPOGRAPHIC SURVEY PERFORMED AND COMPILED BY TERRA LAND SURVEYS, LLC. CORRALES, NEW MEXICO JUNE 2020.

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 100 IS A TERRA LAND SURVEY 1/2" REBAR WITH PLASTIC CAP STAMPED "TERRA CONTROL" ELEVATION = 5,336.38 FEET (NAVD 1988 VERTICAL DATUM).

NOTES

1. FIELD SURVEY PERFORMED IN JUNE 2020.

2. TOPOGRAPHIC SURVEY WAS COMPILED UTILIZING SURFACE COORDINATES REFERENCED TO NAD 1983 NEW MEXICO CENTRAL ZONE. PRIMARY HORIZONTAL AND VERTICAL CONTROL WAS ESTABLISHED UTILIZING GPS RTK METHODS. COMBINED GROUND TO GRID FACTOR IS 0.999671106 SCALED AROUND 0,0.

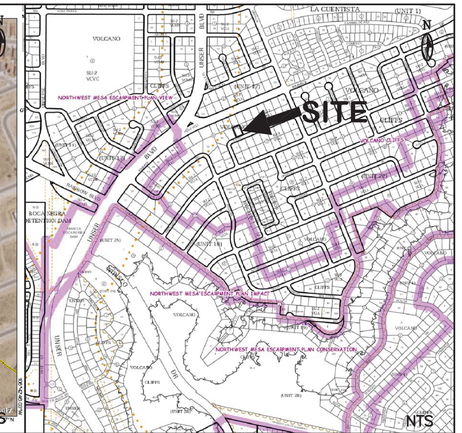
3. ELEVATIONS SHOWN FOR PIPES ARE INVERT ELEVATIONS UNLESS OTHERWISE SPECIFIED.

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

5. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL OF THE UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE.

6. PIPE SIZES AND MATERIAL TYPES FOR MANHOLES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEYS, VISUAL INSPECTIONS AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE PIPE SIZES AND MATERIAL TYPES ARE EXACT BUT DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE.

FEMA FLOODWAY MAP PANEL #111G



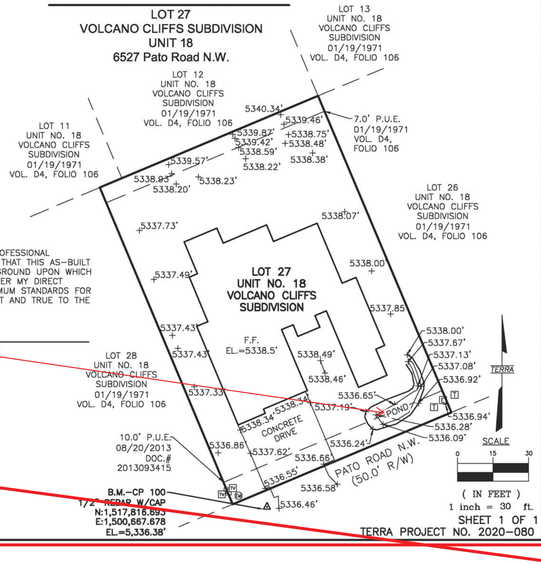
VICINITY MAP ZONE ATLAS D-10

AS-BUILT SURVEY

LOT 27
VOLCANO CLIFFS SUBDIVISION
UNIT 18
6527 Pato Road N.W.

NOTES:

1. FIELD SURVEY PERFORMED ON APRIL 2022.
2. ALL DISTANCES SHOWN ARE GROUND DISTANCES.
3. ELEVATIONS REFERENCED TO BM PROVIDED ON GRADING PLAN. PROJECT BENCHMARK IS A 1/2" REBAR W/CAP EL.=5,336.38 FEET (NAVD 88 DATUM).
4. THIS IS NOT A BOUNDARY SURVEY. BOUNDARY INFORMATION SHOWN TAKEN FROM RECORD PLAT AND SHOWN FOR ORIENTATION ONLY. THIS IS NOT A BOUNDARY SURVEY.



SURVEYOR'S CERTIFICATION:

I, CHRISTOPHER A. MEDINA, NEW MEXICO PROFESSIONAL SURVEYOR NO. 15702, DO HEREBY CERTIFY THAT THIS AS-BUILT SURVEY AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION; THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND IS CORRECT AND TRUE TO THE BEST OF MY BELIEF AND KNOWLEDGE.

Christopher A Medina

CHRISTOPHER A. MEDINA, NMPLS NO. 15702

APRIL 20, 2022
DATE

CHRISTOPHER A. MEDINA NEW MEXICO 15702 REGISTERED PROFESSIONAL SURVEYOR 4/20/2022

SHEET 1 OF 1
TERRA PROJECT NO. 2020-080

LEGEND

	EXISTING	PROPOSED
CONTOUR	6045	6045
PROPERTY LINE		
ROAD		
SETBACK		

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 7-9-20. 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 May 6, 2022 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.

JACKIE S. McDOWELL NEW MEXICO 10903 REGISTERED PROFESSIONAL ENGINEER
7-9-20

AS-BUILT CERTIFICATION 5-6-22

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.

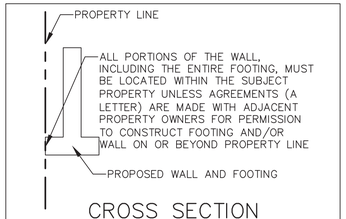
10. Contactor shall ensure that no site soils/sediment or silt enters the righ-of-ways during construction.

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

GRADING
7-1-20
1=20
MAR0120L

GRAPHIC SCALE

(IN FEET)
1 inch = 20 ft.



CROSS SECTION
PROPERTY LINE WALL DETAIL

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.

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.

6527 Pato Rd. NW

TOPOGRAPHY:

Topographic information provided by Christopher Medina dated June 2020.

ZONE 1

P(360) = 2.20 inches
P(10 day) = 3.67 inches

Areas: (acres)	Existing	Proposed
Treatment A	0.33	0.00
Treatment B	0.00	0.00
Treatment C	0.00	0.18
Treatment D	0.00	0.15
Total (acres) =	0.33	0.33

POND VOLUME PROVIDED:

ELEV.	AREA	VOL. (CF)
5336	663	
		246.75
5335.5	324	

Volume	100 year Existing	100 year Proposed	10 year Existing	10 year Proposed	2 year Existing	2 year Proposed
Volume (acre-feet) =	0.012	0.039	0.002	0.022	0.000	0.011
Volume (cubic feet) =	527	1,720	96	963	0	470

FIRST FLUSH REQUIRED POND VOL = 0.34"/(12"/FT)*(0.15 AC * 43560 SF/AC) = 185 CF

Total Q(p), cfs:	100 year Existing Q(p)*A	100 year Proposed Q(p)*A	10 year Existing Q(p)*A	10 year Proposed Q(p)*A	2 year Existing Q(p)*A	2 year Proposed Q(p)*A
Treatment A	0.43	0.00	0.08	0.00	0.00	0.00
Treatment B	0.00	0.00	0.00	0.00	0.00	0.00
Treatment C	0.00	0.52	0.00	0.27	0.00	0.08
Treatment D	0.00	0.66	0.00	0.43	0.00	0.25
Total Q (cfs) =	0.43	1.17	0.08	0.70	0.00	0.34

ENGINEER'S CERTIFICATION:

I, Jackie S. McDowell, hereby certify that I personally inspected the site shown on this plan on July 1, 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.

6527 PATO RD. NW, ALBUQUERQUE, NM 87120

CITY OF ALBUQUERQUE, BERNALILLO COUNTY NEW MEXICO

LOT 27, BLOCK 6, UNIT 18
VOLCANO CLIFFS SUBDIVISION

MARTINEZ, ADRIAN – 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 MAR0120L	Date JULY,2020			