CITY OF ALBUQUERQUE

Planning Department David Campbell, Director



Mayor Timothy M. Keller

January 14, 2019

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

RE: Lot 28 Block 6 Unit 22, S.A.D. 228 Volcano Cliffs Subdivision 6531 Pato Rd. NW Grading and Drainage Plan Engineers Stamp Date 1/10/19 (D10D003M28)

Dear Ms. McDowell,

Based upon the information provided in your submittal received 1/11/19, 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 5/17/18.

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,

D bugher aner

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

RR/JDH C: eFile D10S003M28

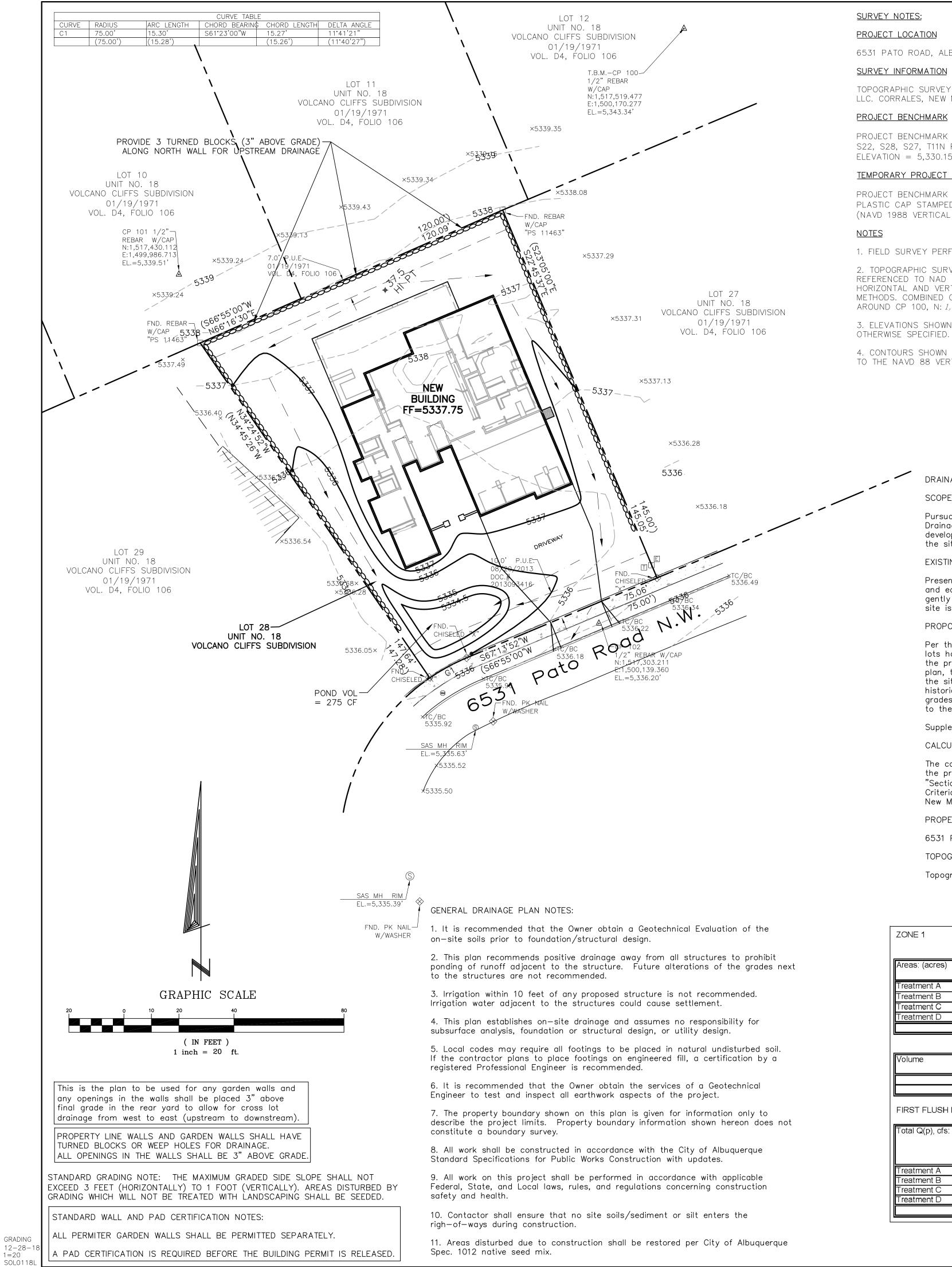


City of Albuquerque

Planning Department Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title:	Building Per	rmit #: H	Iydrology File #:
DRB#:	EPC#:	V	Vork Order#:
Legal Description:			
City Address:			
Applicant:		Co	ntact:
Address:			
Phone#:			nail:
Other Contact:		Co	ntact:
Address:			
Phone#:	Fax#:	E-1	nail:
TYPE OF DEVELOPMENT:	_PLAT (# of lots)	RESIDENCEI	ORB SITE ADMIN SITE
IS THIS A RESUBMITTAL?	Yes No		
DEPARTMENT TRANSPORTA	ATIONHYI	DROLOGY/DRAINAGE	
Check all that Apply:		TYPE OF APPROVAL/A BUILDING PERMIT	ACCEPTANCE SOUGHT:
PRE-DESIGN MEETING?	PERMIT APPLIC JT (TCL)	CERTIFICATE OF O PRELIMINARY PLA SITE PLAN FOR SU SITE PLAN FOR SU FINAL PLAT APPR SIA/ RELEASE OF FOUNDATION PER GRADING PERMIT SO-19 APPROVAL PAVING PERMIT A GRADING/ PAD CI WORK ORDER APPI CLOMR/LOMR FLOODPLAIN DEV OTHER (SPECIFY)	DCCUPANCY AT APPROVAL JB'D APPROVAL LDG. PERMIT APPROVAL ROVAL FINANCIAL GUARANTEE MIT APPROVAL CAPPROVAL ERTIFICATION ROVAL ELOPMENT PERMIT
DATE SUBMITTED:	By:		
COA STAFF:		SUBMITTAL RECEIVED:	



GRADING

1=20

SOLC

SURVEY NOTES:

PROJECT LOCATION

6531 PATO ROAD, ALBUQUERQUE, NEW MEXICO

SURVEY INFORMATION

TOPOGRAPHIC SURVEY PERFORMED AND COMPILED BY TERRA LAND SURVEYS, LLC. CORRALES, NEW MEXICO DECEMBER 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 100 IS A TERRA LAND SURVEY 1/2" REBAR WITH PLASTIC CAP STAMPED "TERRA CONTROL" ELEVATION = 5,343.34 FEET (NAVD 1988 VERTICAL DATUM).

1. FIELD SURVEY PERFORMED IN DECEMBER 2018.

2. TOPOGRAPHIC SURVEY WAS COMPILED UTILIZING GRID 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 0.999670328 SCALED AROUND CP 100, N: 1,517,519.477 E:1,500,170.277.

3. ELEVATIONS SHOWN FOR PIPES ARE INVERT ELEVATIONS UNLESS

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

> 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 0.35 acre site is undeveloped. The site is bounded on the west, north, and east by private property, and on the south by Pato Rd. NW. The site slopes gently from the northeast to the southwest. As shown on FEMA Panel #111G, the site is not located in a 100 year flood plain.

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 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:

6531 Pato Rd. NW

TOPOGRAPHY:

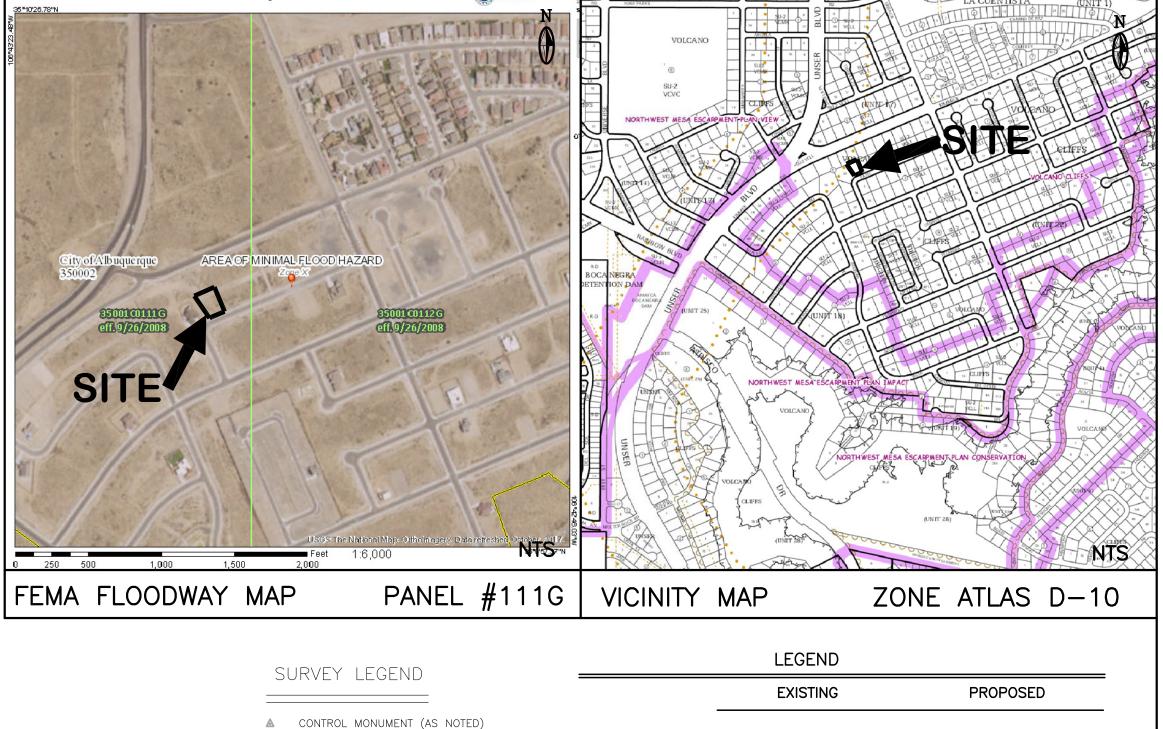
Topographic information provided by Christopher Medina dated December, 2018.

ZONE 1			P(360) = P(10 day) =		inches inches	
Areas: (acres)	Existing	Proposed		POND VOL ELEV.	UME PROVI	IDED: VOL.
	слышу	rioposeu				VOL.
Treatment A	0.35	0.00		5335	710	
Treatment B	0.00	0.00				275
Treatment C	0.00	0.20		5334.5	391	
Treatment D	0.00	0.15				
Total (acres) =	0.35	0.35				
			1			

Volume	100 year	100 year	10 year	10 year	2 year	2 year
	Existing	Proposed	Existing	Proposed	Existing	Propose
Volume (acre-feet) =	0.013	0.041	0.002	0.023	0.000	0
Volume (cubic feet) =	559	1,791	102	995	0	

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

	100 year Existing Q(p)*A	100 year Proposed Q(p)*A	Existing	Proposed	2 year Existing Q(p)*A	2 year Propos Q(p)*A
Treatment A	0.45	0.00	0.08	0.00	0.00	
Treatment B	0.00	0.00	0.00	0.00	0.00	
Treatment C	0.00	0.57	0.00	0.30	0.00	
Treatment D	0.00	0.66	0.00	0.43	0.00	
Total Q (cfs) =	0.45	1.23	0.08	0.73	0.00	



▲ CONTROL MONUMENT (AS NOTED) FOUND CHISELED "X" WATER METER TELEPHONE RISER ELECTRIC BOX ---- STREET SIGN ×53XX.XX SPOT ELEVATION



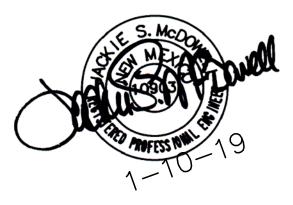
CONCRETE HATCH

BLOCK WALL

COVERED PORCH

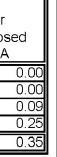
6045 CONTOUR PROPERTY ROAD SETBACK _____ RETAINING WALL/WALL SPOT ELEVATION ×5321.78

> ___ALL PORTIONS OF THE WALL, INCLUDING THE ENTIRE FOOTING, MUST BE LOCATED WITHIN THE SUBJECT PROPERTY UNLESS AGREEMENTS (A LETTER) ARE MADE WITH ADJACENT PROPERTY OWNERS FOR PERMISSION _TO CONSTRUCT FOOTING AND/OR WALL ON OR BEYOND PROPERTY LINE CROSS SECTION PROPERTY LINE WALL DETAIL



(CF) 5.25





ENGINEER'S CERTIFICATION:

SOL0118L

I, Jackie S. McDowell, hereby certify that I personally inspected the site shown on this plan on December 19, 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.

6531 PATO RD. NW, ALBUQUERQUE, NM 87120
CITY OF ALBUQUERQUE, BERNALILLO COUNTY NEW MEXICO
LOT 28, BLOCK 6, UNIT 18 VOLCANO CLIFFS SUBDIVISION
SOLIS, JAVIER (BUILDER: MICHAEL SANCHEZ) – G & D PLAN
McDouell Engineering, 9nc. 7820 BEVERLY HILLS AVE. NE • ALBUQUERQUE, NM 87122 TELE: 505-828-2430 • FAX: 505-821-4857
Designed JSM Drawn STAFF Checked JSM Sheet of