# CITY OF ALBUQUERQUE

Planning Department
Suzanne Lubar, Director



Mayor Richard J. Berry

August 17, 2017

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

RE: Lot 11 Block 6 Unit 22, S.A.D. 228

Volcano Cliffs Subdivision 6200 Camino Alto NW Grading and Drainage Plan

Engineers Stamp Date 8-13-17 (D10D00B11)

PO Box 1293

Dear Ms. McDowell,

Albuquerque

Based upon the information provided in your submittal received 8/15/17, this plan is approved for Grading Permit. Please be advised that, before the building permit can be issued a PAD Certification must be approved

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

New Mexico 87103

If you have any questions, please contact me at 924-3695 or Rudy Rael at 924-3977.

www.cabq.gov

Sincerely,

James D. Hughes, P.E.

Principal Engineer, Hydrology

ames D. Bufler

Planning Department

RR/JDH C: File



Project Title:

# City of Albuquerque

#### Planning Department

# Development & Building Services Division

#### DRAINAGE AND TRANSPORTATION INFORMATION SHEET

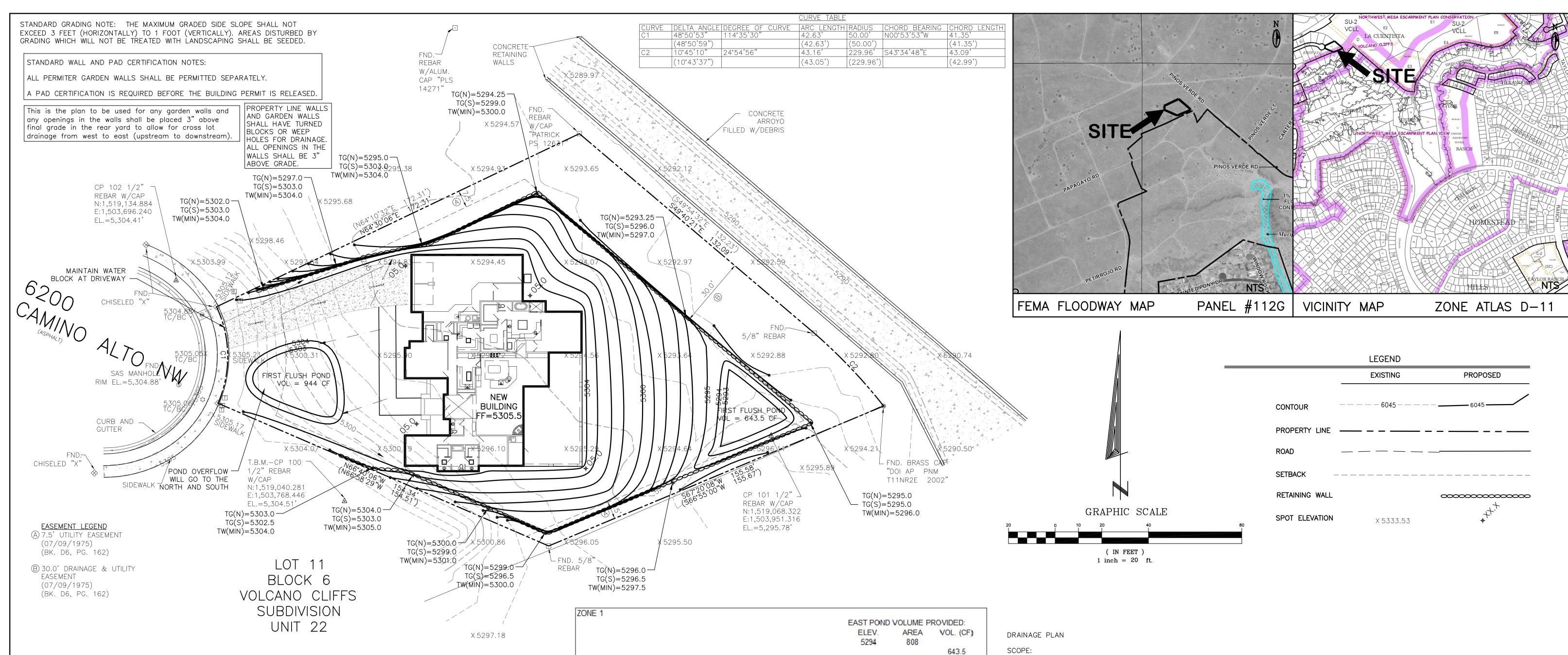
(REV 02/2013)

Building Permit #: City Drainage #:

DRB#: EPC#:	Work Order#:
Legal Description:	
City Address:	
Engineering Firm:	Contact:
Address:	
Phone#: Fax#:	E-mail:
	Contact:
Address:	
Phone#: Fax#:	E-mail:
Architect:	Contact:
Address:	
Phone#: Fax#:	E-mail:
Surveyor:	Contact:
Address:	
Phone#: Fax#:	E-mail:
Contractor:	Contact:
Address:	
Phone#: Fax#:	E-mail:
TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:
DRAINAGE REPORT	SIA/FINANCIAL GUARANTEE RELEASE
DRAINAGE PLAN 1st SUBMITTAL	PRELIMINARY PLAT APPROVAL
DRAINAGE PLAN RESUBMITTAL	S. DEV. PLAN FOR SUB'D APPROVAL
CONCEPTUAL G & D PLAN	S. DEV. FOR BLDG. PERMIT APPROVAL
GRADING PLAN	SECTOR PLAN APPROVAL
EROSION & SEDIMENT CONTROL PLAN (ESC)	FINAL PLAT APPROVAL
ENGINEER'S CERT (HYDROLOGY)	CERTIFICATE OF OCCUPANCY (PERM)
CLOMR/LOMR	CERTIFICATE OF OCCUPANCY (TCL TEMP)
TRAFFIC CIRCULATION LAYOUT (TCL)	FOUNDATION PERMIT APPROVAL
ENGINEER'S CERT (TCL)	BUILDING PERMIT APPROVAL
ENGINEER'S CERT (DRB SITE PLAN)	GRADING PERMIT APPROVAL SO-19 APPROVAL
ENGINEER'S CERT (ESC)	PAVING PERMIT APPROVAL ESC PERMIT APPROVAL
SO-19	WORK ORDER APPROVAL ESC CERT. ACCEPTANCE
OTHER (SPECIFY) PAD CERTIFCATION	GRADING CERTIFICATION OTHER (SPECIFY) PAD CERTIFCATION
WAS A PRE-DESIGN CONFERENCE ATTENDED:	Yes No Copy Provided
DATE SUBMITTED:	By:
D	- Distantial beautiful and the state of the

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following

- 1. Conceptual Grading and Drainage Plan: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans
- Drainage Plans: Required for building permits, grading permits, paving permits and site plans less than five (5) acres
   Drainage Report: Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more
- Erosion and Sediment Control Plan: Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development



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.

# SURVEY NOTES:

# PROJECT LOCATION

6200 CAMINO ALTO, ALBUQUERQUE, NEW MEXICO

# LEGAL DESCRIPTION

LOT 11, BLOCK 6, VOLCANO CLIFFS SUBDIVISION, UNIT 22

# **SURVEY INFORMATION**

TOPOGRAPHIC SURVEY PERFORMED AND COMPILED BY TERRA LAND SURVEYS, LLC. CORRALES, NEW MEXICO JULY 2017.

# PROJECT BENCHMARK

PROJECT BENCHMARK IS A USGLO SECTION CORNER DISC SET IN A 12 INCH CONCRETE POST POURED AROUND THE ORIGINAL IRON PIPE 1 FOOT ABOVE GROUND STAMPED, "S21, S22, S28, S27. T11, R2E, 1911." TO REACH THE STATION BENCHMARK FROM THE INTERSECTION OF MONTANO ROAD AND UNSER BOULEVARD NORTHWEST, TRAVEL NORTHWEST ON UNSER BOULEVARD 0.78 MILES TO MOLTEN ROCK ROAD NORTHWEST, TURN LEFT AND TRAVEL 320 FEET TO 81ST STREET NORTHWEST AND THE STATION IS LOCATED ON THE SOUTHEAST QUADRANT OF THE INTERSECTION. ELEVATION = 5,330.151 FEET.

# TEMPORARY BENCHMARK

TEMPORARY BENCHMARK IS CP 100 A SET 1/2 INCH REBAR WITH CAP STAMPED "TERRA CONTROL." ELEVATION=5,304.51 FEET (NAVD 1988 VERTICAL DATUM).

# <u>NOTES</u>

1. FIELD SURVEY PERFORMED IN JULY 2017.

2. TOPOGRAPHIC SURVEY WAS COMPILED UTILIZING GROUND COORDINATES REFERENCED TO THE NAD 83 NEW MEXICO CENTRAL ZONE COORDINATE SYSTEM. PRIMARY HORIZONTAL AND VERTICAL CONTROL WAS ESTABLISHED UTILIZING GPS RTK METHODS (COMBINED GROUND TO GRID FACTOR = 0.999671197/1.000328910876 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. THIS IS NOT A BOUNDARY SURVEY, APPARENT PROPERTY CORNER AND PROPERTY LINES ARE SHOWN FOR INFORMATION ONLY. BOUNDARY DATA SHOWN IS FROM A RECORD DOCUMENT.

Areas: (acres)			
		Existing	Proposed
Treatment A		0.66	0.11
Treatment B		0.00	0.16
Treatment C		0.00	0.20
Treatment D		0.00	0.19
	Total (acres) =	0.66	0.66

Volume

5293 479 WEST POND VOLUME PROVIDED: AREA VOL. (CF) 5304 1116 944 5303 772

TOTAL POIND VOL PROVIDED = 1587.5 100 year 100 year 10 year 10 year 2 year

Volume	100 year	roo year	lio koai	10 year	2 your	2 your
	Existing	Proposed	Existing	Proposed	Existing	Proposed
Volume (acre-feet) =	0.024	0.061	0.004	0.031	0.000	0.014
Volume (cubic feet) =	1,054	2,642	192	1,334	0	590

# FIRST FLUSH REQUIRED POND VOL = 0.34"/(12"/FT)\*(0.66 AC \* 43560 SF/AC) = 815 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	0.85	0.14	0.16	0.03	0.00	0.00
Treatment B	0.00	0.32	0.00	0.12	0.00	0.00
Treatment C	0.00	0.57	0.00	0.30	0.00	0.09
Treatment D	0.00	0.83	0.00	0.55	0.00	0.32
Total Q (cfs) =	0.85	1.87	0.16	1.00	0.00	0.42

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 0.66 acre site is undeveloped. The site is bounded on the north, east and south by private property, and on the west by Camino Alto NW. The site slopes from the west to the east with a drop of about 10 feet across the property. As shown on FEMA Panel #112G, the site is not located in a 100 year flood plain.

# PROPOSED CONDITIONS:

Per the SAD 228 Drainage Report by Wilson & Company, drainage from the lots have been master planned to be intercepted by drainage features downstream of the properties. Current COA Drainage Ordinance requires that ponds must be provided to handle the First Flush volume which has been calculated and is included on this plan. 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 on adjacent lots. On site flows will drain around the structure via swales, and flow to the west and east to the first flush retention ponds located west and east of the structure. All roof drainage will discharge from the roof to the lot and be directed around the structure to the drainage 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:

6200 Camino Alto NW

TOPOGRAPHY:

Topographic information provided by Christopher Medina dated July,



# ENGINEER'S CERTIFICATION:

CAN0317L

I, Jackie S. McDowell, hereby certify that I personally inspected the site shown on this plan on July 30, 2017 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.

LOT 11, BLOCK 6, UNIT 22 VOLCANO CLIFFS SUBDIVISION

CITY OF ALBUQUERQUE, BERNALILLO COUNTY

CANDELARIA - STENZEL- GRADING & DRAINAGE PLAN

AUGUST,2017

NEW MEXICO

TELE: 505-828-2430 • FAX: 505-821-4857 Checked JSM Drawn STAFF esigned JSM