CITY OF ALBUQUERQUE

Planning Department
Suzanne Lubar, Director



Mayor Richard J. Berry

June 20, 2017

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

RE: Lot 31 Block 6 Unit 18, S.A.D. 228

6543 Pato Rd. NW

Grading and Drainage Plan

Engineers Stamp Date 6-19-17 (D10D003M31)

Dear Ms. McDowell,

PO Box 1293

Based upon the information provided in your submittal received 6/19/17, this plan is cannot be approved for Grading Permit until the following comments are addressed

Albuquerque

 Provide the calculations for the openings in the North and South rear yard walls for flows heading North to South, as well as the southwest corner rear yard wall for flows heading from east to west.

New Mexico 87103

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

www.cabq.gov

James 1

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

Planning Department

RR/JDH C: File

Sincerely,



City of Albuquerque

Planning Department

Development & Building Services Division

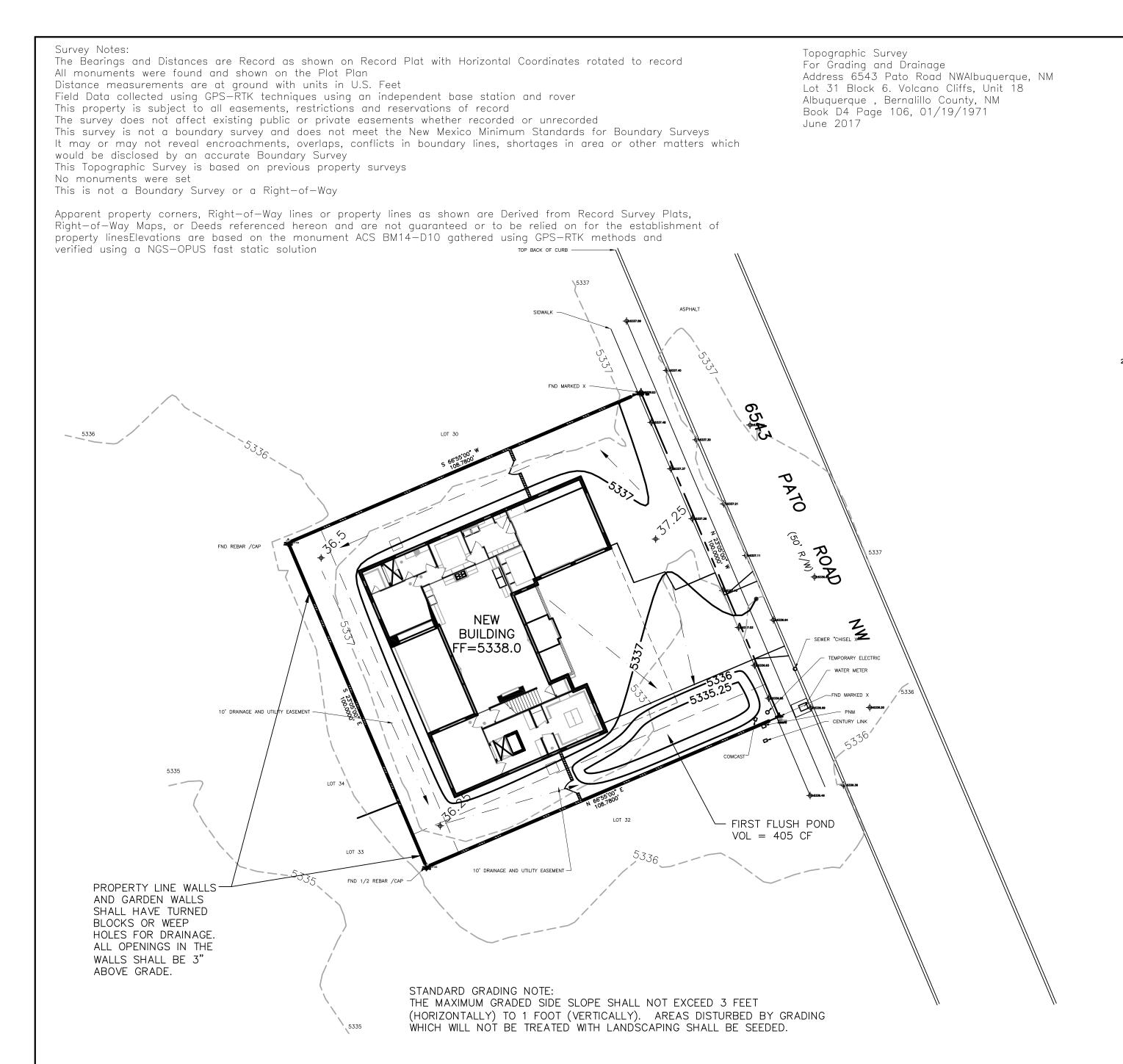
DRAINAGE AND TRANSPORTATION INFORMATION SHEET

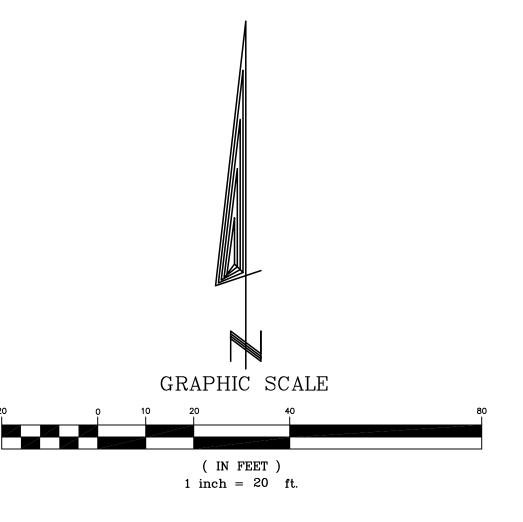
(REV 02/2013)

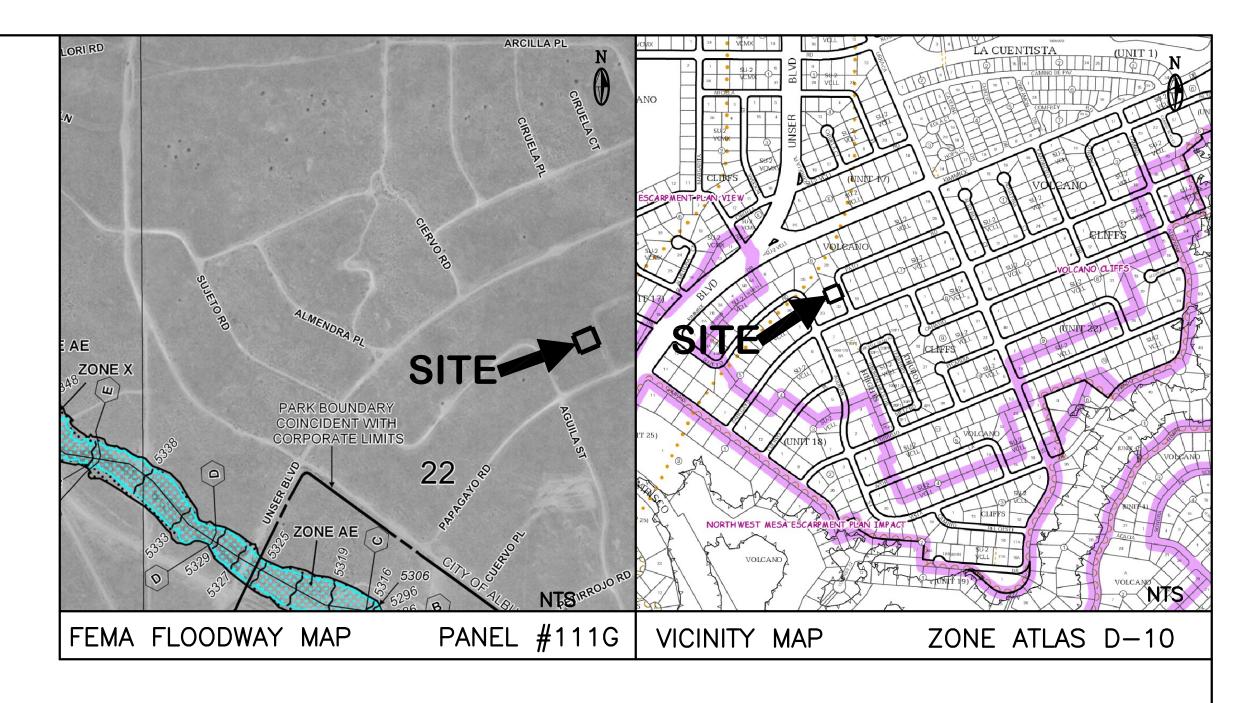
Project Title:		Building Permit #:		City Drainage #:
DRB#: E	PC#:		Work Order#:	:
Legal Description:				
City Address:				
			Contact:	
Address:				
Phone#: Fa			E-mail:	
Owner:			Contact:	
Address:			·	
Phone#: Fa	ax#:		E-mail:	
Architect:			Contact:	
Address:				
Phone#: Fa	ax#:		E-mail:	
Surveyor:			Contact:	
Address:				
Phone#: Fa	ax#:		E-mail:	
Contractor:			Contact:	
Address:				
Phone#: Fa	ax#:		E-mail:	
TYPE OF SUBMITTAL:	C	HECK TYPE OF APPROVA	AL/ACCEPTA	ANCE SOUGHT:
DRAINAGE REPORT		SIA/FINANCIAL GUARAN	ΓEE RELEASE	E
DRAINAGE PLAN 1st SUBMITTAL		PRELIMINARY PLAT APPR	ROVAL	
DRAINAGE PLAN RESUBMITTAL		S. DEV. PLAN FOR SUB'D	APPROVAL	
CONCEPTUAL G & D PLAN		S. DEV. FOR BLDG. PERMI	T APPROVAL	
GRADING PLAN		SECTOR PLAN APPROVAL		
EROSION & SEDIMENT CONTROL PLAN	(ESC)	FINAL PLAT APPROVAL		
ENGINEER'S CERT (HYDROLOGY)		CERTIFICATE OF OCCUPA	NCY (PERM)	
CLOMR/LOMR		CERTIFICATE OF OCCUPA	NCY (TCL TE	EMP)
TRAFFIC CIRCULATION LAYOUT (TCL)		FOUNDATION PERMIT AP	PROVAL	
ENGINEER'S CERT (TCL)		BUILDING PERMIT APPRO	VAL	
ENGINEER'S CERT (DRB SITE PLAN)		GRADING PERMIT APPRO	VAL	SO-19 APPROVAL
ENGINEER'S CERT (ESC)		PAVING PERMIT APPROVA	AL	ESC PERMIT APPROVAL
SO-19		WORK ORDER APPROVAL		ESC CERT. ACCEPTANCE
OTHER (SPECIFY)		GRADING CERTIFICATION	1	OTHER (SPECIFY)
WAS A PRE-DESIGN CONFERENCE ATTENDED	D:	Yes No Co	py Provided	
DATE SUBMITTED:	· · · · · · · · · · · · · · · · · · ·			
D	C1. 4::-: D1-41	-11 h	1:44-1 Th	

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 followin

- 1. Conceptual Grading and Drainage Plan: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans
- 2. 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







ZONE 1			
Areas: (acres)			
		Existing	Proposed
Treatment A		0.25	0.00
Treatment B		0.00	0.12
Treatment C		0.00	0.00
Treatment D		0.00	0.13
	Total (acres) =	0.25	0.25

olume		100 year	100 year	10 year	10 year	2 year	2 year
		Existing	Proposed	Existing	Proposed	Existing	Proposed
	Volume (acre-feet) =	0.009	0.028	0.002	0.016	0.000	0.008
	Volume (cubic feet) =	399	1,221	73	681	0	344

POND VOLUME PROVIDED:

5335.25

AREA

720

361

VOL. (CF)

405.375

FIRST FLUSH REQUIRED POND VOL = 0.34"/(12"/FT)*(0.25AC * 43560 SF/AC) = 309 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	0.32	0.00	0.06	0.00	0.00	0.00
Treatment B	0.00	0.24	0.00	0.09	0.00	0.00
Treatment C	0.00	0.00	0.00	0.00	0.00	0.00
Treatment D	0.00	0.57	0.00	0.38	0.00	0.22
Total Q (cfs) =	0.32	0.81	0.06	0.47	0.00	0.22

LEGEND **EXISTING** PROPOSED _______ SPOT ELEVATION

GENERAL DRAINAGE PLAN NOTES:

construction safety and health.

- 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
- 9. All work on this project shall be performed in accordance with applicable Federal, State, and Local laws, rules, and regulations concerning
- 10. Contactor shall ensure that no site soils/sediment or silt enters the righ—of—ways during construction.

Standard Specifications for Public Works Construction with updates.

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

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 0.25 acre site is undeveloped. The site is bounded on the northeast by Pato Rd. NW, and on the northwest, southwest, and southeast by private property. The site is relatively level in the center and has a gentle slope from the northwest to the southeast. Site topography slopes to the southeast. As shown on FEMA Panel #111G, 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. No off-site flows enter the site due to existing grades on adjacent lots which transport offsite runoff to public streets around the site. On site flows will drain around the structure via swales, and flow to the southeast to the first flush retention pond. 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:

6543 Pato Road NW

TOPOGRAPHY:

Topographic information provided by Russell Elliott dated June, 2017.



ENGINEER'S CERTIFICATION:

I, Jackie S. McDowell, hereby certify that I personally inspected the site shown on this plan on June 9, 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.

> CITY OF ALBUQUERQUE, BERNALILLO COUNTY NEW MEXICO LOT 31, BLOCK 6, UNIT 18 VOLCANO CLIFFS SUBDIVISION

> > AYALA — GRADING & DRAINAGE PLAN

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

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).

ALL PERMITER GARDEN WALLS SHALL BE PERMITTED SEPARATELY.

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

STANDARD WALL AND PAD CERTIFICATION NOTES:

7820 BEVERLY HILLS AVE. NE • ALBUQUERQUE, NM 87122

Date JUNE,2017 AYA0117L