

CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director



Mayor Timothy M. Keller

July 7, 2021

Don Briggs, P.E.
Don Briggs Engineering LLC
5324 Oakledge Ct. NW
Albuquerque, New Mexico 87120

RE: **Lot 11 Block 9, Volcano Cliffs Unit 22, SAD 228
6405 Petirrojo Rd. NW
2nd Revised Grading and Drainage Plan
Engineers Stamp Date 6/30/2021 (D10D003Q11)**

Mr. Briggs,

Based upon the information provided in your submittal received 6/30/2021, 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 and letter 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 and Pad Certification.

www.cabq.gov

Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist is required.

If you have any questions, please contact me at 924-3999 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 11/2018)

Project Title: _____ **Building Permit #:** _____ **Hydrology File #:** _____

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

Legal Description: _____

City Address: _____

Applicant: _____ **Contact:** _____

Address: _____

Phone#: _____ **Fax#:** _____ **E-mail:** _____

Owner: _____ **Contact:** _____

Address: _____

Phone#: _____ **Fax#:** _____ **E-mail:** _____

TYPE OF SUBMITTAL: _____ PLAT (___# OF LOTS) _____ RESIDENCE _____ DRB SITE _____ ADMIN SITE

IS THIS A RESUBMITTAL?: _____ Yes _____ No

DEPARTMENT: _____ TRAFFIC/ TRANSPORTATION _____ HYDROLOGY/ DRAINAGE

Check all that Apply:

TYPE OF SUBMITTAL:

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

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

- _____ BUILDING PERMIT APPROVAL
- _____ 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: _____ **By:** _____

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____

DRAINAGE NARRATIVE

This grading & drainage plan was prepared to support a building permit application for a new residence located at 6405 Petirrojo Rd. NW. A review of the City Hydrology records indicate development of this property is governed by the Drainage Report for SAD 228. This report indicates allowable land treatment values of 0% A, 10% B, 40% C, and 50% D. If developed discharge rates exceed what is allowable using these land treatment values, mitigation measures will be required. This plan was prepared using the hydrology methodology presented in Chapter 22.2 of the City of Albuquerque's Development Process Manual (abbreviated method).

The site is a 0.34 acre parcel located in Precipitation Zone 1 and Floodzone X (Unshaded). It slopes from the north west to the south east at about 4.6%. The site is impacted by cross lot runoff from adjacent properties and ponds that water onsite. This plan is designed to meet the drainage requirements indicated in the SAD 228 report.

The hydrology analysis indicates the developed conditions will not increase discharge rates over what is allowed so mitigation measures are not required. However, a water quality pond is provided to meet EPA requirements. All onsite flows are directed to the front yard landscaping then to the street.

- NOTE:
1. Pad Certification was provided for previous design on 7/27/20
 2. A final inspection by Hydrology is required before a Certificate of Occupancy is released.
 3. Provide openings in CMU wall 3" above ground to allow cross lot drainage.

GENERAL NOTES

Contractor is responsible for utility spots and controlling sediment deposition and erosion during construction.

A concrete washout bin must be provided as per City of Albuquerque MS4 Permit requirements.

All disturbed area due to construction must be reseeded or landscaped following construction.

Hydrology Calculations
6405 Petirrojo Rd. NW

Precipitation Zone 1
100 yr 6 hr Storm
Basin Area = 0.34 ac. 14810.4 sq ft Determined by DB
Allowable - SAD 228 Master Drainage Plan

Land Treatment	Percent	Area (ac.)	Excess Precipitation (in.)	Unit Peak Discharge (cfs/ac.)	Runoff Volume (ac. Ft.)	Peak Discharge (cfs)	Comments
A	0.00%	0.00	0.44	1.29	0.00	0.00	Natural Ground
B	10.00%	0.03	0.67	2.03	0.00	0.07	Landscaped Areas
C	40.00%	0.14	0.99	2.87	0.01	0.39	Compacted earth
D	50.00%	0.17	1.97	4.37	0.03	0.74	Impervious Areas
TOTAL	100.00%	0.34	1.45		0.04	1.20	
						1787.12	cu ft

Proposed 0.34 ac. 14810.4 sq ft Determined by DB

Land Treatment	Percent	Area (ac.)	Excess Precipitation (in.)	Unit Peak Discharge (cfs/ac.)	Runoff Volume (ac. Ft.)	Peak Discharge (cfs)	Comments
A	0.00%	0.00	0.44	1.29	0.00	0.00	Natural Ground/Pond
B	8.10%	0.03	0.67	2.03	0.00	0.06	Landscaped Areas
C	50.80%	0.17	0.99	2.87	0.01	0.50	Compacted earth
D	41.10%	0.14	1.97	4.37	0.02	0.61	Impervious Areas
TOTAL	100.00%	0.34	1.37		0.04	1.16	
						1686.91	cu ft

PONDING REQUIREMENT = 1686.91 - 1787.12 = -100.21 cu ft. PONDING NOT REQUIRED
Water Quality Retention Volume = 0.34' x 6086.38 sq ft = 172.45 cu ft.
Water Quality Retention Volume Provided = 198.11 cu ft

AS BUILT WATER QUALITY POND VOLUME

POND 1

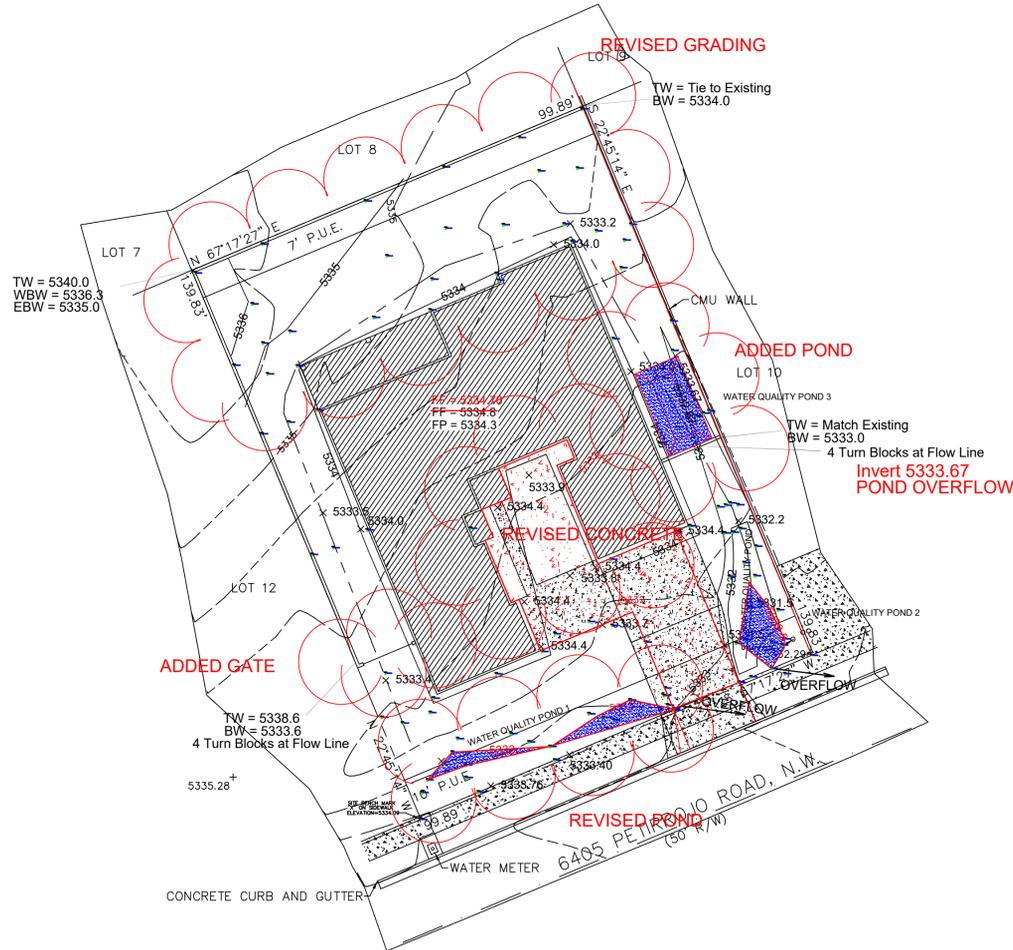
ELEVATION (ft)	AREA (sq ft)	AVE AREA (sq ft)	DEPTH (ft)	VOLUME (cu ft)	CUMULATIVE VOLUME (cu ft)	COMMENTS
5331.50	0.00	0.00	1.28	0.00	0.00	
5332.78	0.00	70.77	0.22	15.57	15.57	
5333.00	141.55					
PONDING PROVIDED					15.57	

POND 2

ELEVATION (ft)	AREA (sq ft)	AVE AREA (sq ft)	DEPTH (ft)	VOLUME (cu ft)	CUMULATIVE VOLUME (cu ft)	COMMENTS
5331.50	0.00	0.00	0.51	0.00	0.00	
5332.01	0.00	60.28	0.49	29.54	29.54	
5332.50	120.57					
PONDING PROVIDED					29.54	

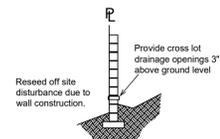
POND 3

ELEVATION (ft)	AREA (sq ft)	AVE AREA (sq ft)	DEPTH (ft)	VOLUME (cu ft)	CUMULATIVE VOLUME (cu ft)	COMMENTS
5332.67	75.00					
5333.67	231.00	153.00	1.00	153.00	153.00	
5333.67	0.00	115.50	0.00	0.00	153.00	
PONDING PROVIDED					153.00	

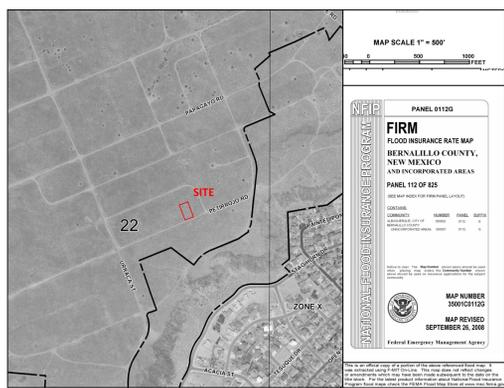
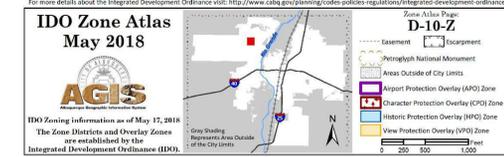
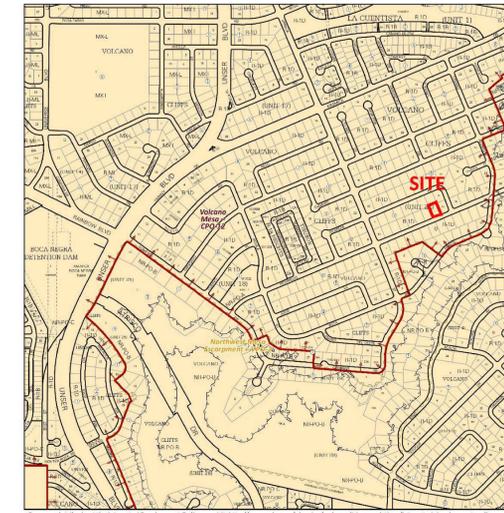


- Existing Contour
- _____ Design Contour
- ////// New 5' CMU Wall
- Drainage Swale
- G=5324.98 X Existing Spot Elevation
- X 5328.5 Proposed Spot Elevation

NATURAL GROUND CONTOUR
INTERVAL = 1.0'



SCALE 1" = 20'



AS BUILT INFORMATION		BENCHMARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS	
CONTRACTOR	DATE	NO.	BY	NO.	BY	NO.	DATE	NO.	DATE
WORK BY	DATE	NO.	BY	NO.	BY	NO.	DATE	NO.	DATE
INSPECTORS	DATE								
ACCEPTANCE BY	DATE								
VERIFICATION BY	DATE								
DRAWINGS CORRECTED BY	DATE								
RECORDING INFORMATION	DATE								
RECORDED BY	DATE								
NO.									

DON BRIGGS Engineering LLC
505-249-4843
donbriggsengineering@gmail.com
5324 Oakledge Ct. NW, Albuquerque, NM 87120

TITLE: **6405 Petirrojo Rd. NW Grading & Drainage Plan**

Design Review Committee	City Engineer Approval	Last Design Update	Mo. / Day / Yr.	Mo. / Day / Yr.

City Project No. **D10D003Q11** Zone Map No. **Sheet** Of **Of**