CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Interim Director



October 6, 2021

David Soule, PE Rio Grande Engineering 1606 Central SE Suite 201 Albuquerque, NM 87106

Re: Lot 24 Block 8 SAD 228

Volcano Cliffs Subdivision Unit 22

6301 Petirrojo Dr. NW Grading and Drainage Plan

Engineers Stamp Date 12/31/2020 (D10D003E24)

Pad Certification Date 1/30/2021 CO Certification Dated: 9/30/2021

Dear Mr. Soule,

Based on the Certification received on 10/1/2021, the site is acceptable for release of 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

RR/SB

C: File D10D003E24



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: 6301 PETIRROJO	Building Permit #:	Hydrology File #:
DRB#:	EPC#:	Work Order#:
Legal Description: LOT 24, Block	8 VOLCANO CLIFFS UNIT	22
City Address: 6301 PETIRROJO	- 10/AL	
Applicant:		Contact:
Address:		
Phone#:		E-mail:
Other Contact: RIO GRANDE ENGINE	ERING	Contact: DAVID SOULE
Address: PO BOX 93924 ALB NM	87199	
Phone#: 505.321.9099	Fax#: 505.872.0999	E-mail: david@riograndeengineering.com
TYPE OF DEVELOPMENT: PLAT		
Check all that Apply:		
DEPARTMENT: X HYDROLOGY/ DRAINAGE TRAFFIC/ TRANSPORTATION	BUILDING PER	AL/ACCEPTANCE SOUGHT: MIT APPROVAL OF OCCUPANCY
TYPE OF SUBMITTAL: ENGINEER/ARCHITECT CERTIFICATION PAD CERTIFICATION CONCEPTUAL G & D PLAN GRADING PLAN DRAINAGE REPORT DRAINAGE MASTER PLAN FLOODPLAIN DEVELOPMENT PERMIT A ELEVATION CERTIFICATE CLOMR/LOMR TRAFFIC CIRCULATION LAYOUT (TCL) TRAFFIC IMPACT STUDY (TIS) STREET LIGHT LAYOUT OTHER (SPECIFY) PRE-DESIGN MEETING?	SITE PLAN FOR SI	R SUB'D APPROVAL R BLDG. PERMIT APPROVAL PPROVAL OF FINANCIAL GUARANTEE PERMIT APPROVAL MIT APPROVAL VAL IIT APPROVAL O CERTIFICATION APPROVAL
IS THIS A RESUBMITTAL?: X Yes No		· — -
DATE SUBMITTED:		
COA STAFF:	ELECTRONIC SUBMITTAL RECEIVED:	

Weighted E Method

								4				100-Year,	6-hr.	24 hour
Basin	Area Ar		a Treatme		nt A Treatment B		Treatment C		Treatment D		Weighted E	Volume	Flow	Volume
	(sf)	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	(ac-ft)	(ac-ft)	cfs	(ac-ft)
ALLOWED	15992.00	0.367	0%	0	24%	0.088	40%	0.1469	36%	0.132	1.362	0.042	1,16	0.050
PROPOSED	15992.00	0.367	0%	0	24%	0.088	37%	0.1358	39%	0.143	1.400	0.043	1.17	0.052
COMPARISON		- 1				1 = 1 = -	<u> </u>					0.001		0.002

Weighted E = Ea*Aa + Eb*Ab + Ec*Ac + Ed*Ad / (Total Area)

Volume = Weighted D * Total Area

Flow = Qa * Aa + Qb * Ab + Qc * Ac + Qd * Ad

Where for 100-year, 6-hour storm-zone 1

Ea= 0.55	Qa= 1.54
Eb= 0.73	Qb= 2.16
Ec= 0.95	Qc= 2.87
Ed= 2.24	Qd= 4.12

ONSITE Conditions

FIRST FLUSH WATER C	QUALITY VOLUME	
	REQUIRED	PROVID
	(CF)	(CF)
WATER QUALITY	0	464
FLOOD CONTROL	84	464
Maria Cara San San San San San San San San San Sa		

This site is within the SAD 227Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the adjacent roadway to the southeast per the master drainage plan. The site does exceed the SAD 227 developed conditions assumptions, therefore ponding of 84 cf is required. Due to hight restrictions we have incorporated ponding to minimize the pad height as much as possible. We are ponding the water harvest volume generated by the site. Upland flow from adjacent lot weeps thru wall and is allowed to pass thru site. This plan is in conformance

I David Soule, NMPE 14522, of the firm Rio Grande Engineering, hereby certify that this project has been graded and will drain in substantial compliance with and in accordance with the design intend of the approved plan dated^{12/31/20}. The record information edited on the original design document has performed by me or under my direct supervision and is true and correct to the best of my knowledge and belief. The asbuilt survey was provided by THOMAS PATRICK NMPS 12651. The certification is submitted in support of a request for <u>PERMANENT CERTIFICATE OF OCCUPANCY</u>. The record information presented heron is not necessarily complete and intended only to verify substantial compliance of the grading and drainage aspects of this project. Those relying on this record document are advised to obtain independent verification of its accuracy before using it for any other purpose



I, DAVID SOULE HAVE PERSONALLY INPECTED THE SITE. I HEREBY CERTIFY THE PAD HAS BEEN CONSTRUCTED SUCH THAT IT IS IN SUBSTANTIAL CONFORMANCE TO THE APPROVED GRADING PLAN DATED 12/31/20

TURN 1 BLOCK@5325.00-

5326.11 X

5325.07

ELEV. = 5323.69

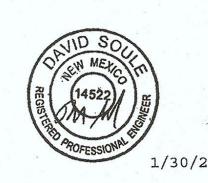
RETENTION POND

BOTTOM = 5323.00 24 VOLUME = 358 CF 5325.03

TOP = 5323.95

18" MAX RETAINAGE AT PERIMETER WALL

TURN 1 BLOCK@5325.00



5325.91

18" MAX RETAINAGE

FF = 5325.80

AVERAGE NATURAL

GRADE = 5325.10

FP = 5325.30

HIGHEST

RETENTION POND TOP = 5324.15

VOLUME = 106 CF

NSTALL 2-42 LF OF 4" PVC PIPE

INV. IN = 5324.15

TOP = 24.4

LOT OUTFALL @ 5323.95

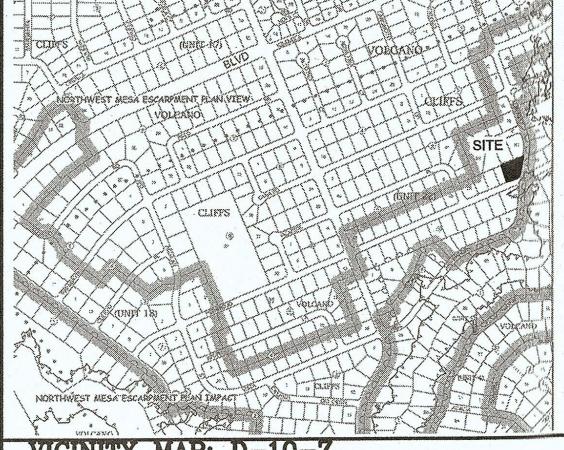
\$323.03 - BTM = 23.4

- TOP = 24.0

INV. OUT = 5324.00

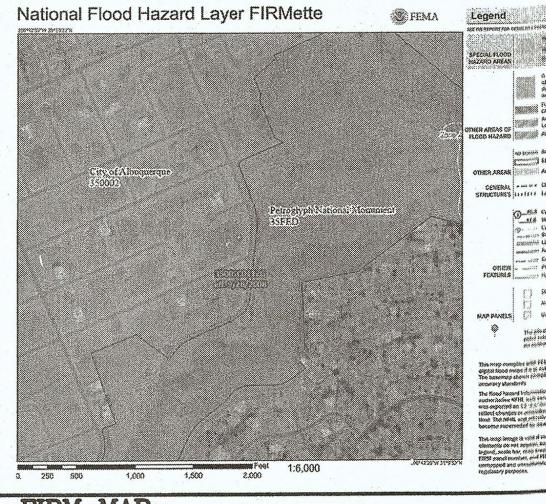
EROSION CONTROL NOTES:

- 1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT
- 2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING
- 3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO
- 4. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE
- 5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.





VICINITY MAP: D-10-Z



FIRM MAP:

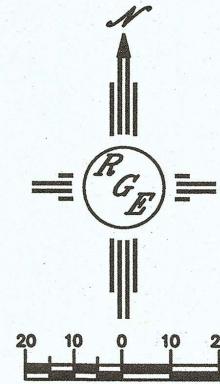
LEGAL DESCRIPTION:

Lot 24, Block 8 Volcano Cliffs Unit 22 CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

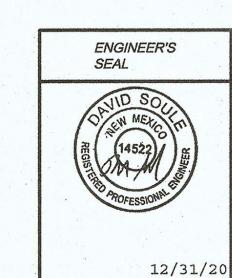
- 1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
- 2. ALL SLOPES SHALL BE 3:1 MAX. AND GRAVEL OR NATIVE SEEDING PRIOR TO CO.
- 3. ANY PERIMETER WALLS MUST BE PERMITED SEPARATELY ALL RETAINING WALL DESIGN
- 4. SURVEY INFORMATION PROVIDED BY COMMUNITY SCIENCES CORPORATION USING NAVD
- 5. A PAD ELEVATION CERTIFICATION SHALL BE REQUIRED PRIOR TO RELEASE OF BUILDING PERMIT.

LEGEND

EXISTING CONTOUR ---- EXISTING INDEX CONTOUR PROPOSED INDEX CONTOUR **EXISTING SPOT ELEVATION** × XXXX PROPOSED SPOT ELEVATION PROPOSED SWALE FLOW DIRECTION PRPOSED RETAINING WALL A A A PROPOSED CONCRETE PROPOSED 2' WIDE GRAVELSWALE



SCALE: 1"=20"



DAVID SOULE P.E. #14522

Lot 24 Blk 8 Un 22 VC 6301 PETIRROJO RD NW GRADING AND

DRAINAGE PLAN Rio Grande

Engineering 1606 CENTRAL AVENUE SE ALBUQUERQUE, NM 87106

JOB#

BY DEM

DATE 12-23-20

Lot 24 Blk 8 Un 22 VC .DWG

SHEET#

C1

EXISTING UTILITIES ARE NOT SHOWN. OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES & OTHER

CAUTION:

IMPROVEMENTS.