CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Interim Director

Mayor Timothy M. Keller

September 14, 2021

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

Re: Lot 7 Block 7 SAD 227
Volcano Cliffs Subdivision Unit 2
7911 Kibo St. NW
Grading and Drainage Plan
Engineers Stamp Date 3/12/2020 (E10D060)
Pad Certification Date 3/26/2020
CO Certification Dated: 9/13/2021

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

Mr. Soule

Based on the Certification received on 9/13/2021, 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

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: 7911 KIBO Building Permit #:_____ Hydrology File #: E10D060

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

Legal Description: LOT 7 , BLOCK 7 VOLCANO CLIFFS UNIT 2

City Address: 7911 KIBO

Applicant: Phil Herrera Contact: _____

Address: _____

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

Other Contact: RIO GRANDE ENGINEERING 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 X RESIDENCE ___ DRB SITE ___ ADMIN SITE

Check all that Apply:

DEPARTMENT:

X HYDROLOGY/ DRAINAGE

___ TRAFFIC/ TRANSPORTATION

TYPE OF SUBMITTAL:

X ENGINEER/ARCHITECT CERTIFICATION

___ PAD CERTIFICATION

___ CONCEPTUAL G & D PLAN

GRADING PLAN

___ DRAINAGE REPORT

___ DRAINAGE MASTER PLAN

___ FLOODPLAIN DEVELOPMENT PERMIT APPLIC

___ ELEVATION CERTIFICATE

___ CLOMR/LOMR

___ TRAFFIC CIRCULATION LAYOUT (TCL)

___ TRAFFIC IMPACT STUDY (TIS)

___ STREET LIGHT LAYOUT

___ OTHER (SPECIFY) _____

___ PRE-DESIGN MEETING?

IS THIS A RESUBMITTAL?: X Yes ___ No

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

___ BUILDING PERMIT APPROVAL

X 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:_____

Weighted E Method

Basin	Area	Area	Treatment A		Treatment B		Treatment C		Treatment D		Weighted E	100-Year, 6-hr. Volume	100-Year, 6-hr. Flow	24 hour Volume
	(sf)	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	(ac-ft)	(ac-ft)	cfs	(ac-ft)
ALLOWED	15212.00	0.349	0%	0	24%	0.084	40%	0.1397	36%	0.126	1.266	0.037	1.12	0.042
PROPOSED	15212.00	0.349	0%	0	10%	0.035	30%	0.1048	60%	0.210	1.546	0.045	1.29	0.053
COMPARISON												0.008		0.011

Equations:

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= 0.44	Qa= 1.29
Eb= 0.67	Qb= 2.03
Ec= 0.99	Qc= 2.87
Ed= 1.97	Qd= 4.37

ONSITE Conditions
FIRST FLUSH WATER QUALITY VOLUME

	REQUIRED (CF)	PROVIDED (CF)
WATER QUALITY	0	502
FLOOD CONTROL	495	502

Narrative

This site is within the SAD 226 Master Drainage plan boundaries. The site is to maintain existing patterns and drain as much as possible to the adjacent roadway to the south per the master drainage plan. The site exceeds the SAD 227 developed conditions assumptions, there for shall retain the excess flow of 495 cf. We are ponding the water harvest volume generated by the site there is not measurable upland flow.
. This plan is in conformance to the master drainage plan

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 3/12/20

DAVID SOULE NEW MEXICO 14522 REGISTERED PROFESSIONAL ENGINEER

3/26/20

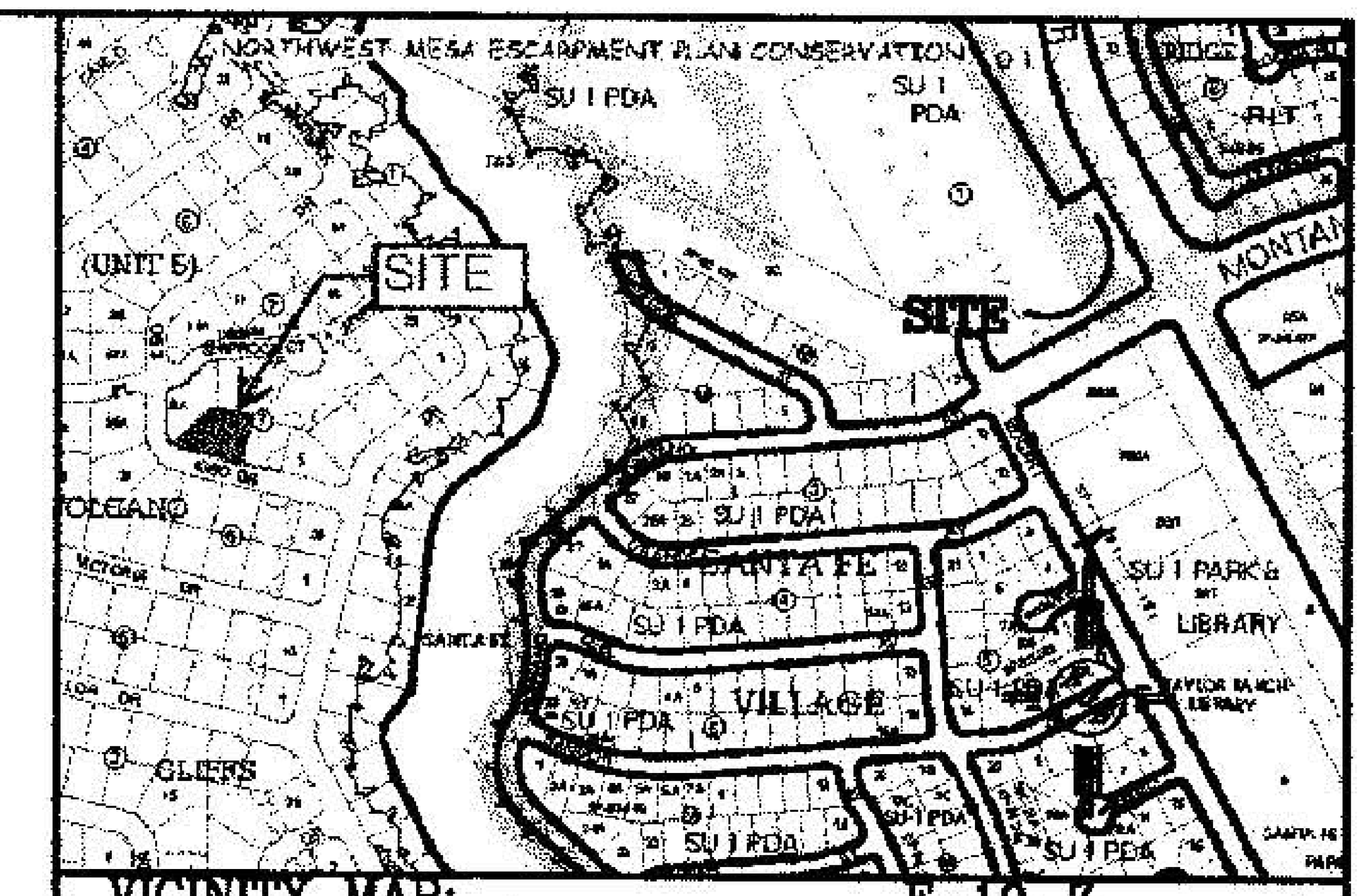
I David Soule, NMPE 14522 , of the firm Rio Grande Engineering, hereby certify that this project has been graded and will drain in substantial compliance with and in accordance with the design intend of the approved plan dated 3/12/20. The record information edited on the original design document has performed by me or under my direct supervision and is true and correct to the best of my knowledge and belief. The as-built survey was provided by THOMAS PATRICK NMPS 12651. The certification is submitted in support of a request for PERMANENT CERTIFICATE OF OCCUPANCY. 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

DAVID SOULE NEW MEXICO 14522 REGISTERED PROFESSIONAL ENGINEER

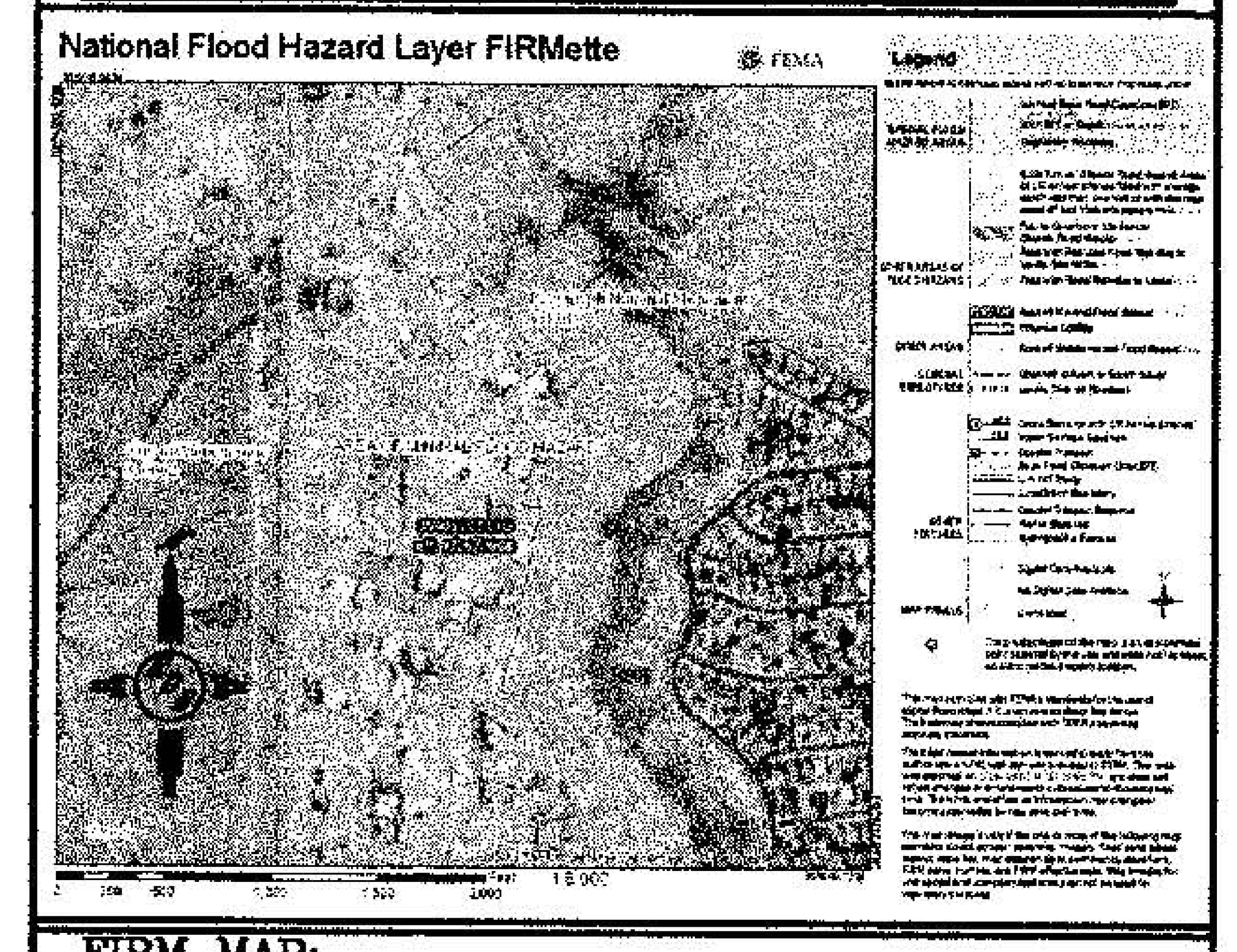
9/13/21

EROSION CONTROL NOTES:

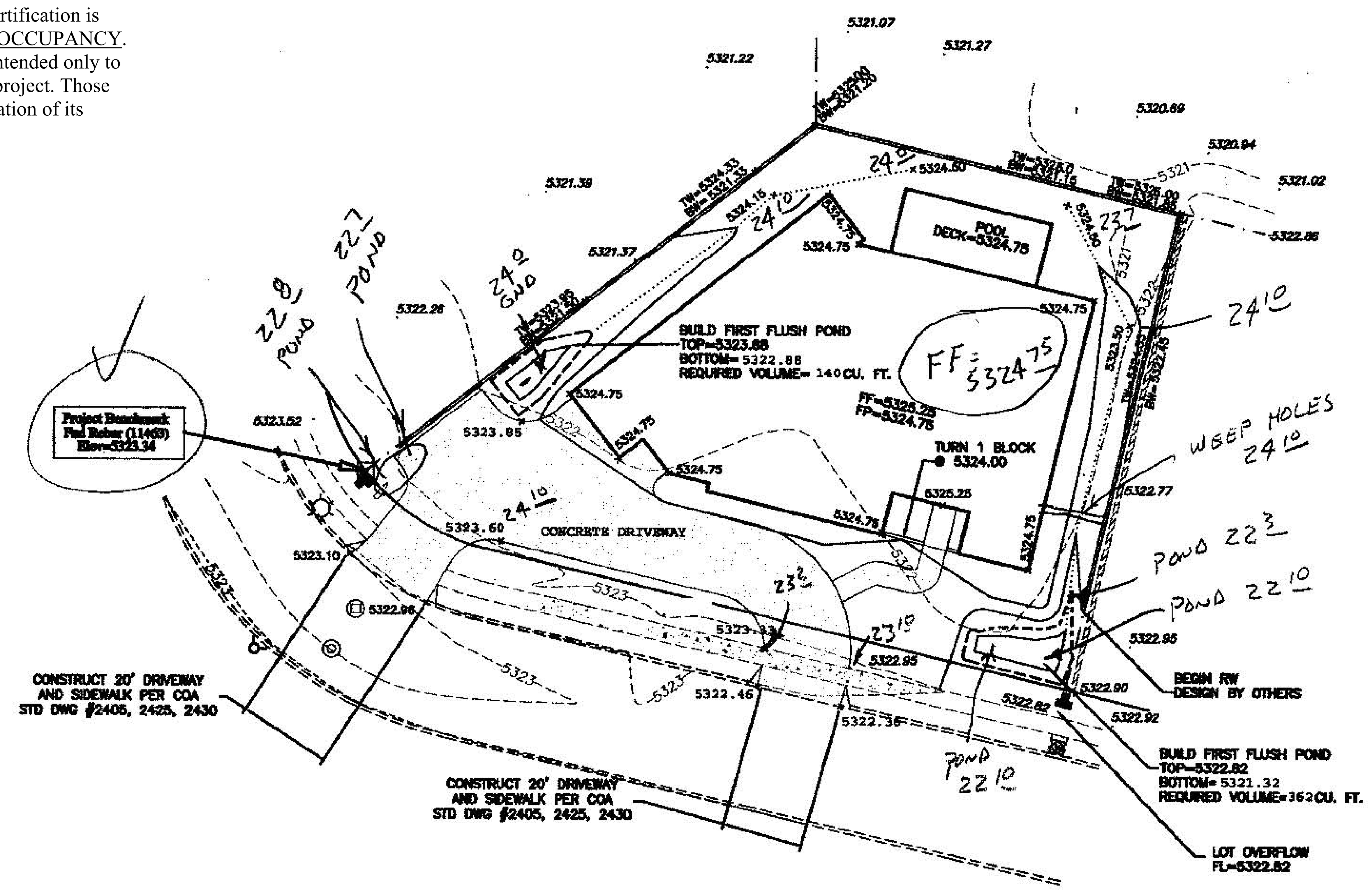
1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
4. REPAIR OF DAMAGED FACILITIES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



VICINITY MAP: E-10-Z



FIRM MAP:



AS-BUILT ELEVATIONS TAKEN
BY B&C LAYOUT SERVICES
ON 9/9/2021

LEGAL DESCRIPTION:

Lot 7, Block 7, Volcano Cliffs Subdivision Unit 2

NOTES:

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.

LEGEND

Symbol	Description
---XXXX---	EXISTING CONTOUR
---XXXX---	EXISTING INDEX CONTOUR
—XXXX—	PROPOSED CONTOUR
—XXXX—	PROPOSED INDEX CONTOUR
▶—	SLOPE TIE
• XXXX	EXISTING SPOT ELEVATION
• XXXX	PROPOSED SPOT ELEVATION
	BOUNDARY
	CENTERLINE
	RIGHT-OF-WAY
	EXISTING CURB AND GUTTER
	PROPOSED CMU SCREEN WALL (12" MAX. RETAINAGE)
	PROPOSED RETAINING WALL—DESIGN BY OTHERS

CAUTION:

EXISTING UTILITIES ARE NOT SHOWN. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES & OTHER IMPROVEMENTS.

N

20 10 0 10 20

SCALE: 1"=20'

ENGINEER'S SEAL

DAVID SOULE NEW MEXICO 14522 REGISTERED PROFESSIONAL ENGINEER

3/12/20

DAVID SOULE
P.E. #14522

7911 KIBO

GRADING AND DRAINAGE PLAN

Rio Grande Engineering
1606 CENTRAL AVENUE SE
SUITE 201
ALBUQUERQUE, NM 87106
(505) 872-0999

DRAWN BY WCWJ

DATE 3-12-20

2109027-LAYOUT-3-29-19

SHEET #
—

JOB #
2109027