

Weighted E Method

Basin	Area (sf)	Area (acres)	Treatment				Weighted E	100-Year, 6-hr.					
			% (acres)	% (acres)	% (acres)	% (acres)		Volume (ac-ft)	Flow cfs				
ALLOWED	14050.00	0.323	0%	0	20%	0.065	46%	0.1484	34%	0.110	1.259	0.034	1.04
PROPOSED	14050.00	0.323	0%	0	20%	0.065	44%	0.1419	36%	0.116	1.279	0.034	1.05
COMPARISON													0.001

Equations:

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

Volume = Weighted E * 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

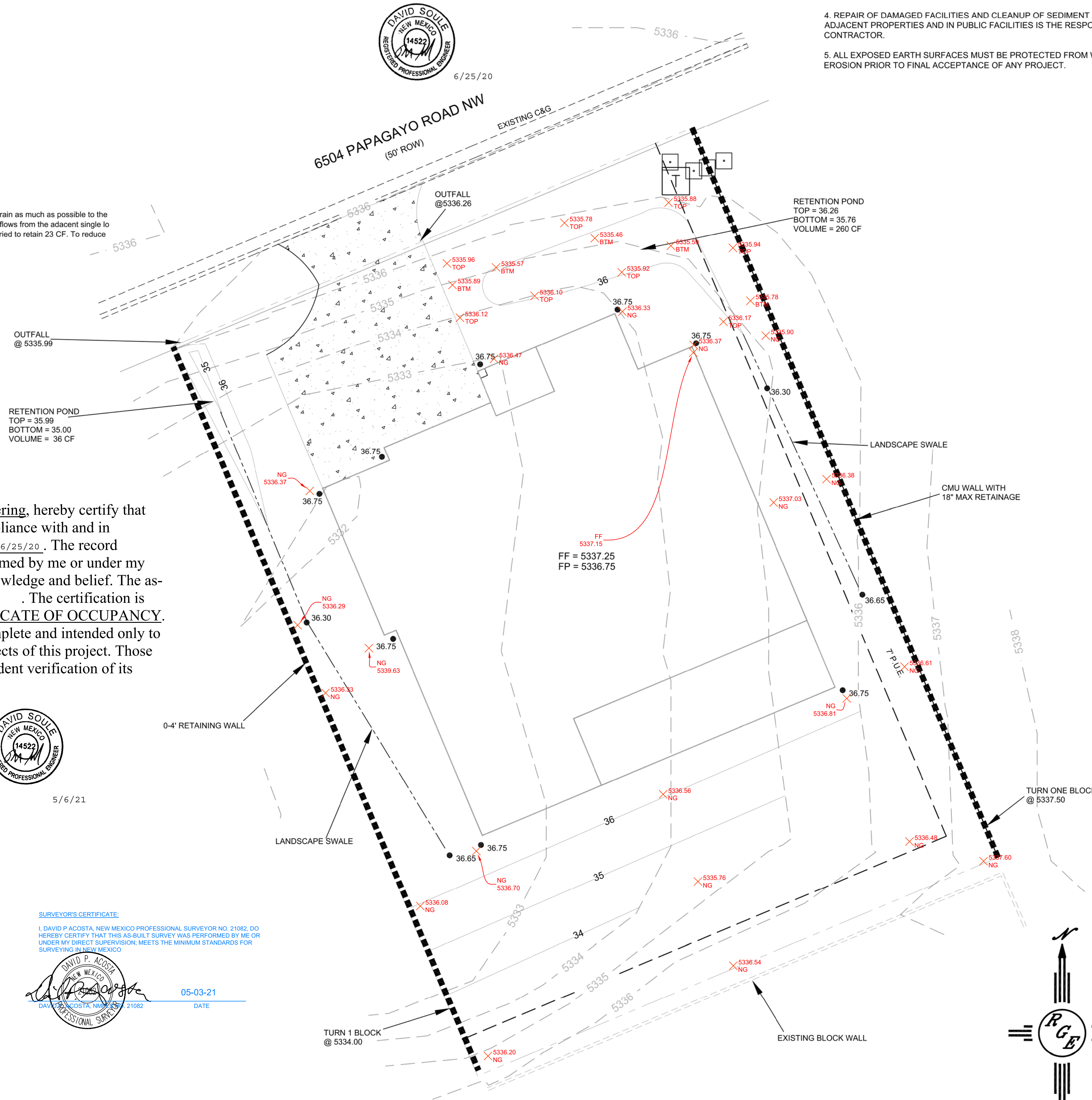
ONSITE Conditions

FIRST FLUSH WATER QUALITY VOLUME	REQUIRED (CF)	PROVIDED (CF)
WATER QUALITY FLOOD CONTROL	0	1030
	23	1030

Narrative

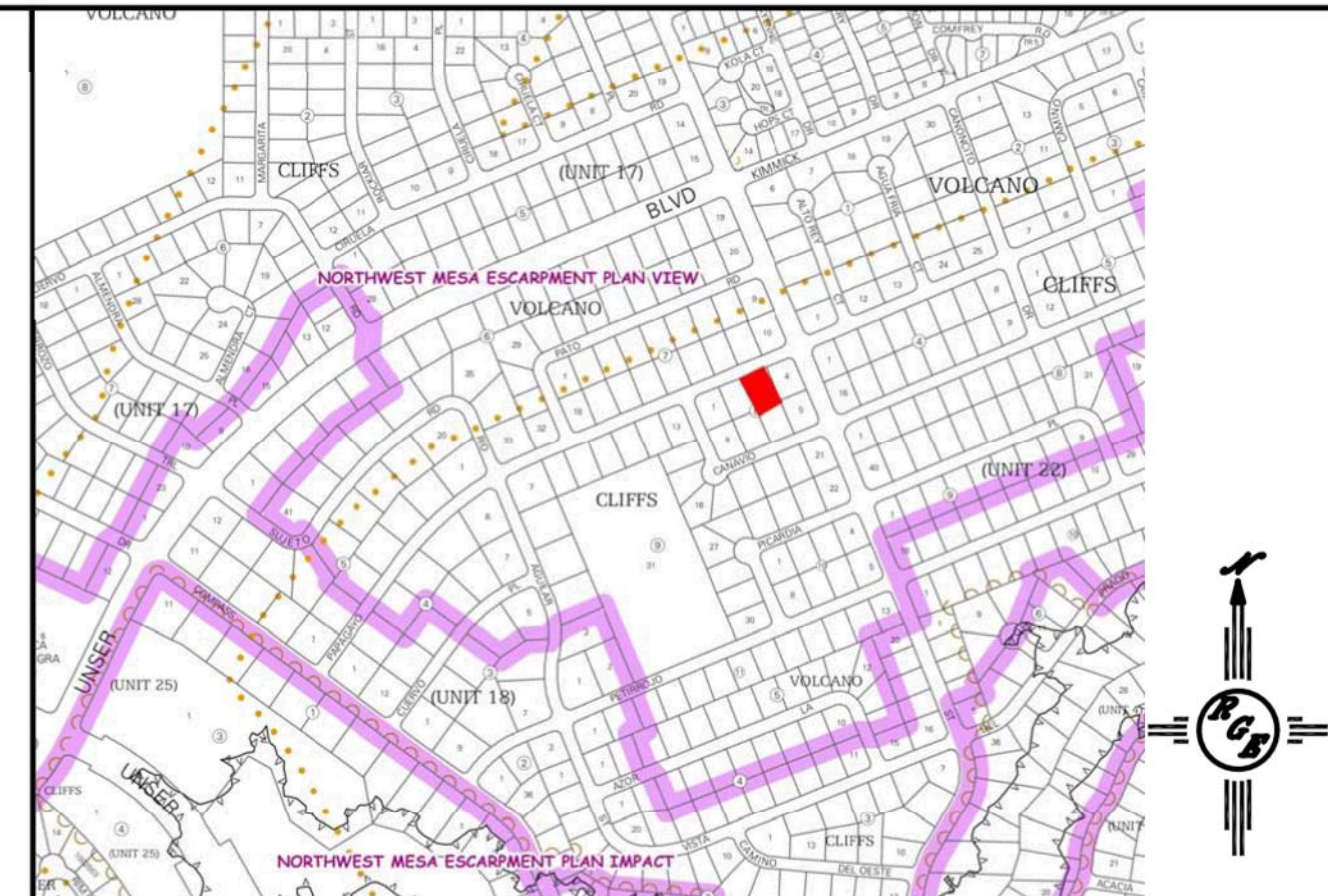
This site is within the SAD 226 Master Drainage plan boundaries. The site is to maintain existing patterns and drain as much as possible to the adjacent roadway with the remainder of the lot draining to the south per the master drainage plan. Minor upland flows from the adjacent single lot will be allowed pass through the site. This plan does exceed the allowed impervious area therefore we are required to retain 23 CF. To reduce the amount of import the site contains ponds that retain 1030 cf. This plan is in conformance to the master drainage plan

I, DAVID SOULE HAVE PERSONALLY INSPECTED THE SITE. I HEREBY CERTIFY THE PAD HAS BEEN CONSTRUCTED SUCH THAT IT IS IN SUBSTANTIAL CONFORMANCE TO THE APPROVED GRADING PLAN DATED 6/25/20

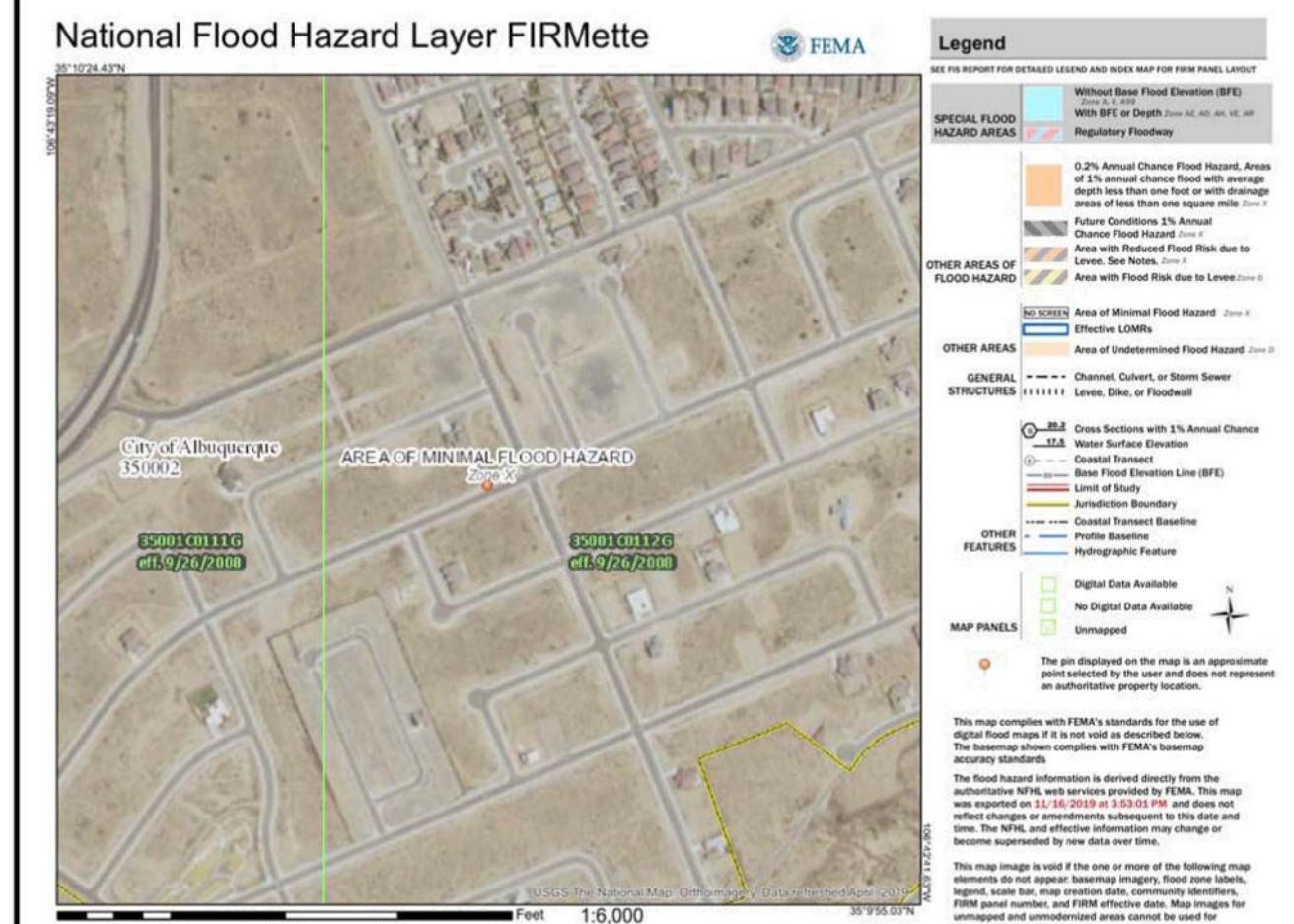


EROSION CONTROL NOTES:

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: D-10-Z



FIRM MAP:

LEGAL DESCRIPTION:

LOT 2, BLOCK 8, UNIT 18 VOLCANO CLIFFS SUBDIVISION BERNALILLO COUNTY, CITY OF ALBUQUERQUE, NEW MEXICO

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.
3. ANY PERIMETER WALLS MUST BE PERMITTED SEPARATELY. ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.
4. SURVEY INFORMATION PROVIDED BY COMMUNITY SCIENCES CORPORATION USING NAVD DATUM 1988.
5. A PAD ELEVATION CERTIFICATION SHALL BE REQUIRED PRIOR TO RELEASE OF BUILDING PERMIT.

LEGEND

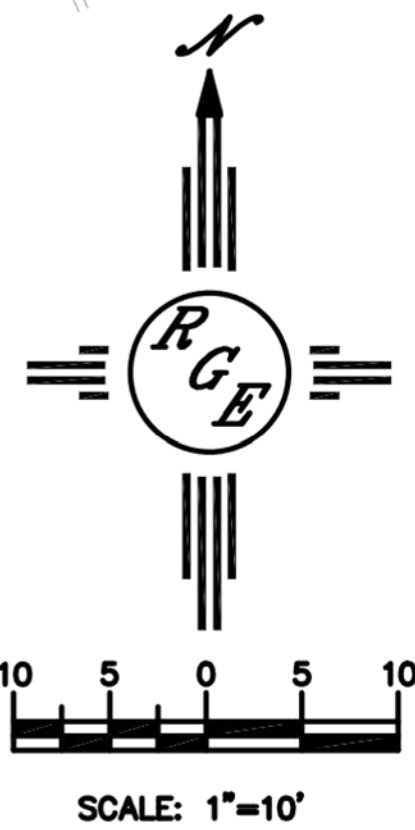
---XXXX---	EXISTING CONTOUR
- - - - -	EXISTING INDEX CONTOUR
-----	PROPOSED CONTOUR
- - - - -	PROPOSED INDEX CONTOUR
+XXXX	EXISTING SPOT ELEVATION
●XXXX	PROPOSED SPOT ELEVATION
-----	BOUNDARY
-----	PROPOSED EARTHEN SWALE
-----	ADJACENT BOUNDARY
=====	EXISTING CURB AND GUTTER
-----	PROPOSED CONCRETE DRIVEWAY
-----	PROPOSED RETAINING WALL

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 6/25/20. 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 DAVID ACOSTA NMPLS#21082. 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



SURVEYOR'S CERTIFICATE:
 I, DAVID P. ACOSTA, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21082, DO HEREBY CERTIFY THAT THIS AS-BUILT SURVEY WAS PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.
 DAVID P. ACOSTA, NMPLS# 21082
 05-03-21
 DATE

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.



ENGINEER'S SEAL	LOT2 BLK8 U18 VOLCANO CLIFFS SUB 6504 PAPAGAYO ROAD N.W.	DRAWN BY DEM
DAVID SOULE 14522	GRADING AND DRAINAGE PLAN	DATE 11-20-19
6/25/20	Rio Grande Engineering	6504 PAPAGAYO RD LOT 2, BLK 8 U18 VIC DING
DAVID SOULE P.E. #14522	1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 972-0899	SHEET # C1
		JOB #