

CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director



Mayor Timothy M. Keller

August 3, 2021

David Soule, P.E.
Rio Grande Engineering
PO Box 93924
Albuquerque, New Mexico 87199

RE: **Lot 10 Block 2 Unit 19 SAD 228
7801 Aguila Rd. NW
Volcano Cliffs Subdivision
Revised Grading and Drainage Plan
Engineers Stamp Date 8/3/2021 (D10D003G10)**

Mr. Soule,

Based upon the information provided in your submittal received 8/3/2021, this plan is approved for Grading Permit and SO-19.

PO Box 1293

Prior to Building permit approval a Pad Certification will be required, provided by the Engineer or a registered Land Surveyor.

Albuquerque

Advise the owner contractor not to use dirt as a ramp to climb the curb, use lumber or crusher fines for this purpose.

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. Also, if a swimming pool is to be placed after this approval a new grading and drainage plan will need to be resubmitted showing the changes for the land treatments.

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 924-3986 or Rudy Rael at 924-3977.

Sincerely,

Ernest Armijo, P.E.
Principal Engineer, Planning Dept.
Development Review Services

Weighted E Method

Basin	Area (sf)	Area (acres)	Treatment A				Treatment B				Treatment C				Treatment D				100-Year, 6-hr.		24 hour
			%	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	Weighted E (ac-ft)	Volume (ac-ft)	Flow (cfs)	Volume (ac-ft)	
ALLOWED	12781.00	0.293	0%	0	20%	0.059	46%	0.135	34%	0.100	1.259	0.031			0.94	0.035					
PROPOSED	12781.00	0.293	0%	0	20%	0.059	25%	0.0734	55%	0.161	1.465	0.036			1.03	0.042					
COMPARISON																0.005			0.007		

Equations:

Weighted E = Ea**A*a + Eb**A*b + Ec**A*c + Ed**A*d / (Total Area)

Volume = Weighted D * Total Area

Flow = Qa * *A*a + Qb * *A*b + Qc * *A*c + Qd * *A*d

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 DRAINAGE SUMMARY

	REQUIRED (CF)	PROVIDED (CF)
WATER QUALITY	0	474
FLOOD CONTROL	322	474

Narrative

This site is within the SAD 228 Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the street per the master drainage plan. The site does exceed the SAD 228 developed conditions assumptions, therefore ponding is required. The site is impacted by height restrictions, therefore ponding is utilized with outfalls to the street upland flow does not impact the property. This plan is in conformance to the master drainage plan

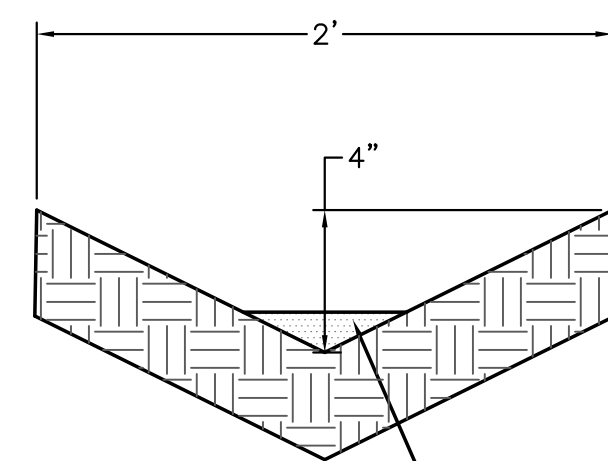
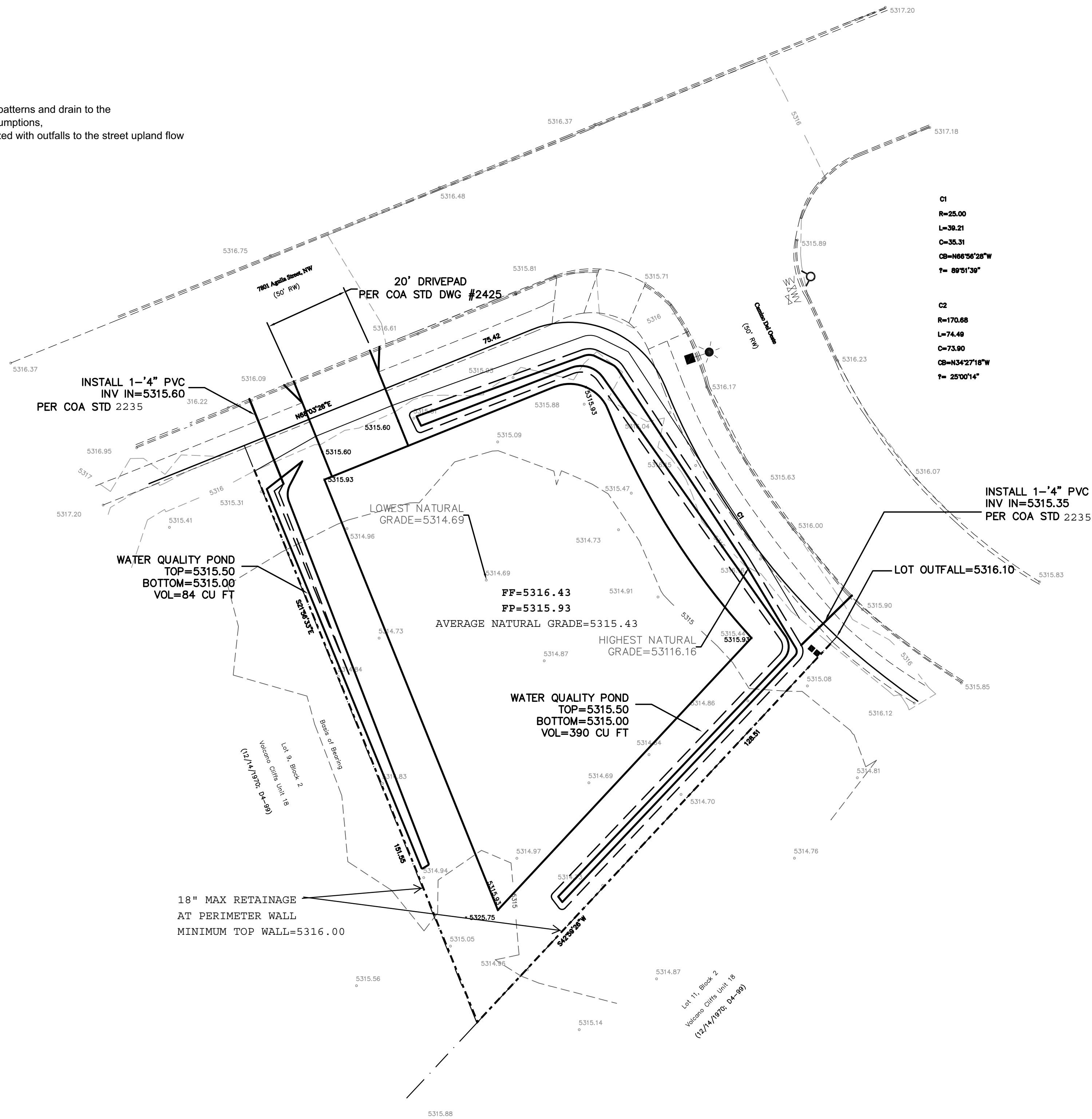
Private Drainage Facilities within City Right-of-Way Notice to Contractor (Special Order 19 ~ "50-19")

- Build sidewalk culvert per COA STD DWG 2236.
- Contact Storm Drain Maintenance at (505) 857-8033 to schedule a meeting prior to forming.
- An excavation permit will be required before beginning any work within City Right-Of-Way.
- All work on this project shall be performed in accordance with applicable federal, state and local laws, rules and regulations concerning construction safety and health.
- Two working days prior to any excavation, the contractor must contact **New Mexico One Call**, dial "811" [or (505) 260-1990] for the location of existing utilities.
- Prior to construction, the contractor shall excavate and verify the locations of all obstructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.
- Backfill compaction shall be according to traffic/street use.
- Maintenance of the facility shall be the responsibility of the owner of the property being served.
- Work on arterial streets may be required on a 24-hour basis.
- Contractor must contact Storm Drain Maintenance at (505) 857-8033 to schedule a construction inspection. For excavating and barricading inspections, contact Construction Coordination at (505) 924-3416.

REV. 01/27/21

CAUTION:

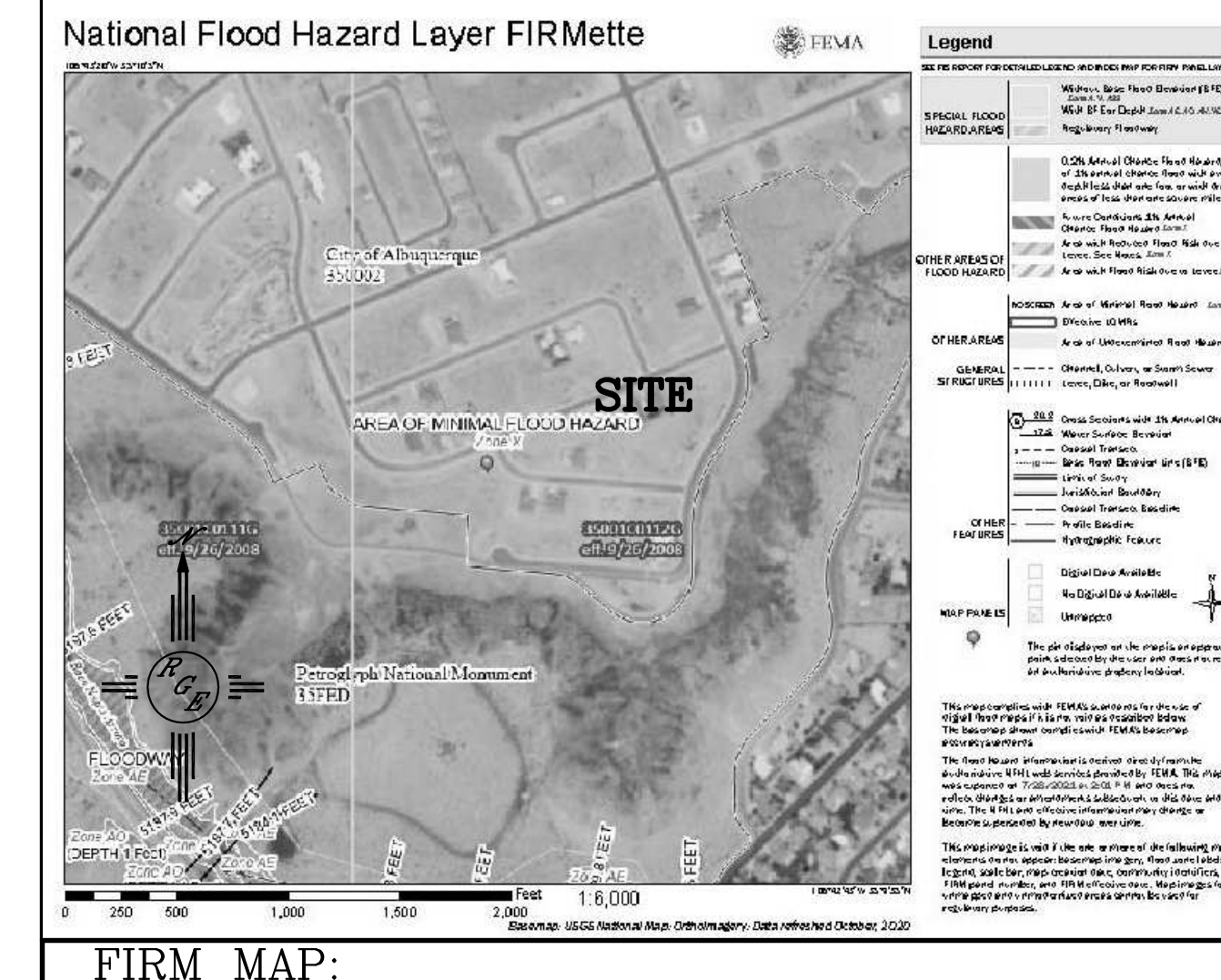
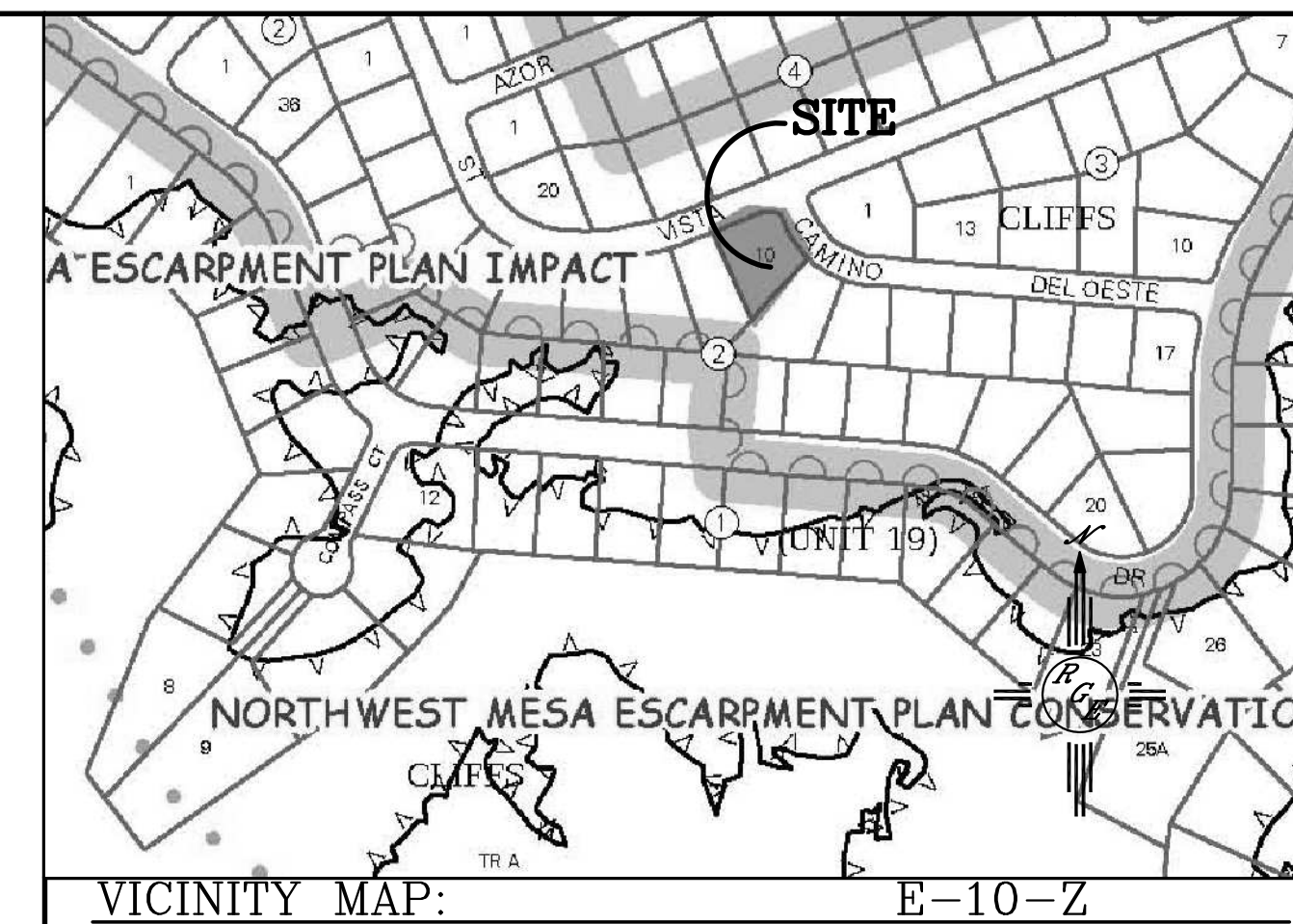
EXISTING UTILITIES ARE NOT SHOWN. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES & OTHER IMPROVEMENTS.



EARTHEN SWALE DETAIL NTS

EROSION CONTROL NOTES:

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



LEGAL DESCRIPTION:

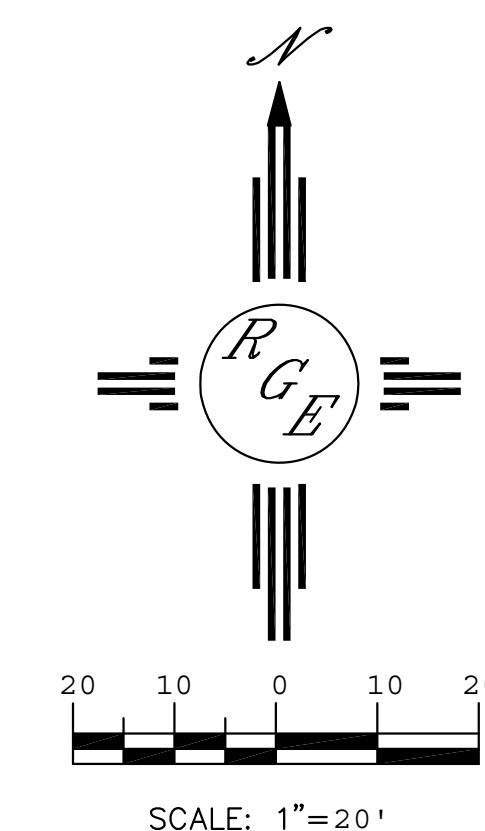
Lot 10, Block 2, Volcano Cliffs Subdivision Unit 19

NOTES:

- ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
- ALL SLOPES SHALL BE 3:1 MAX. AND GRAVEL OR NATIVE SEEDING PRIOR TO CO.
- NO PONDING WITHIN 10' OF STRUCTURE.

LEGEND

---XXXX---	EXISTING CONTOUR
- - - - -	EXISTING INDEX CONTOUR
-----	PROPOSED CONTOUR
-----	PROPOSED INDEX CONTOUR
-----	SLOPE TIE
+XXXX	EXISTING SPOT ELEVATION
+XXXX	PROPOSED SPOT ELEVATION
-----	LOT LINE
-----	CENTERLINE
-----	RIGHT-OF-WAY
-----	PROPOSED 4" PVC SD
-----	GRAVEL LINED SWALE
=====	EXISTING CURB AND GUTTER
=====	PROPOSED CMU SCREEN WALL-DESIGN BY OTHERS



	7801 AGUILAR	DRAWN BY WCVJ
	GRADING AND DRAINAGE PLAN	DATE 8-01-21
8/3/21		21021075-LAYOUT-8-01-21
DAVID SOULE P.E. #14522	Rio Grande Engineering 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 972-9398	SHEET #
		JOB # 21021075