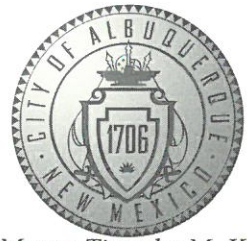


CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director



Mayor Timothy M. Keller

November 14, 2019

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

RE: **Lot 5 Block 5 S.A.D. 227 Unit 5**
6508 Onyx NW
Grading and Drainage Plan
Engineers Stamp Date 11/6/19 (E10D069)

Dear Mr. Soule,

Based upon the information provided in your submittal received 11/7/19, this plan is approved for Grading Permit. Please inform the builder/owner to attach a copy of this approved plan and letter into the construction sets in the permitting process prior to sign-off by Hydrology.

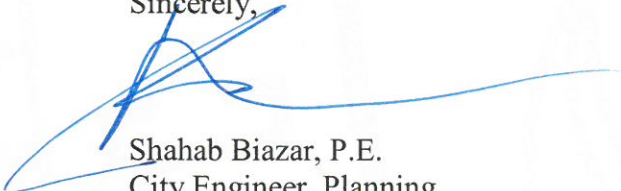
Reiterate to the Owner/Contractor that a separate permit for any garden/retaining wall must be obtained, with the approved G&D plan.

Prior to Building Permit approval, a **Pad Certification** will be required. Inform the contractor/owner not to pile dirt in the street as a ramp to climb the curb. If dirt is found in the street the pad cert. will be denied.

Prior to **Certificate of Occupancy release**, Engineer Certification per the DPM checklist of this plan will be required.

If you have any questions, please contact me at 924-3999 or Rudy Rael at 924-3977.

Sincerely,


Shahab Biazar, P.E.
City Engineer, Planning
Division Manager

RR/SB
C: File E10D069

Weighted E Method										
Basin	Area	Area	Treatment				Weighted E	100-Year, 6-hr.		Flow
	(sf)	(acres)	% (acres)	% (acres)	% (acres)	% (acres)		(ac-ft)	(ac-ft)	cfs
ALLOWED	23434.00	0.538	0%	0	20%	0.108	48%	0.2475	34%	0.183
PROPOSED	23434.00	0.538	0%	0	20%	0.108	54%	0.2905	26%	0.140
COMPARISON								1.181	0.053	1.06
										-0.004

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

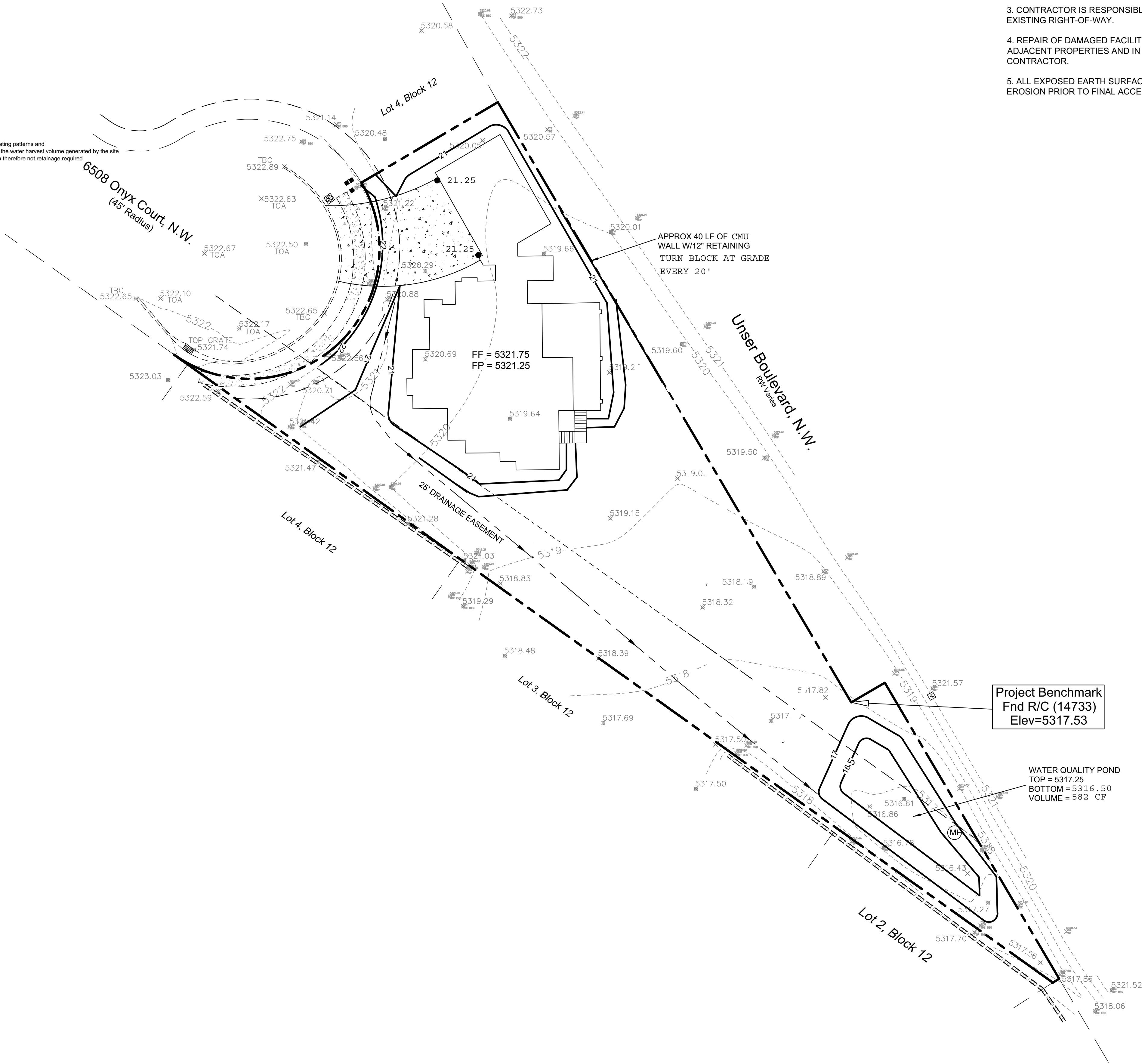
FIRST FLUSH WATER QUALITY VOLUME REQUIRED (CF)

PROVIDED (CF)

WATER QUALITY FLOOD CONTROL

Narrative

This site is within the SAD 226 Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the adjacent roadway lot to south per the master drainage plan. We are ponding the water harvest volume generated by the site there is not measurable upland flow. This plan does not exceed the allowed impervious area therefore not retainage required This plan is in conformance to the master drainage plan

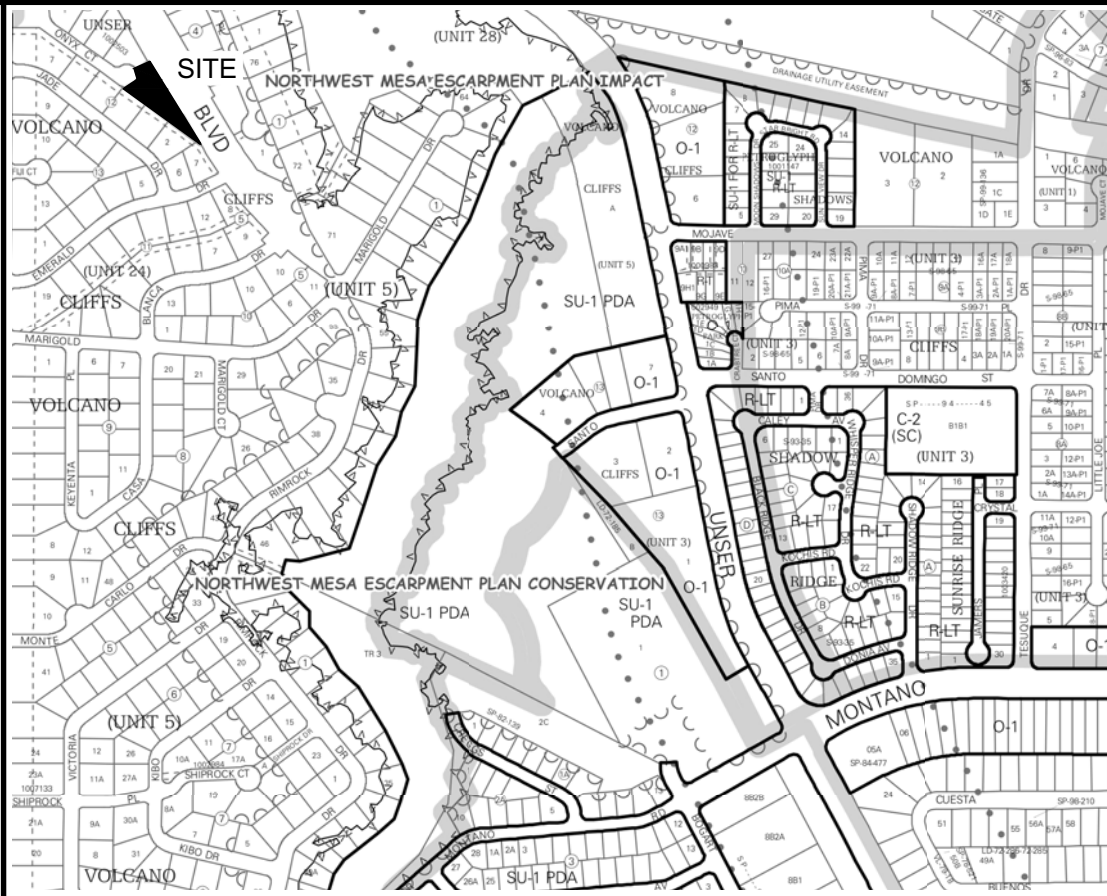


CAUTION:

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.

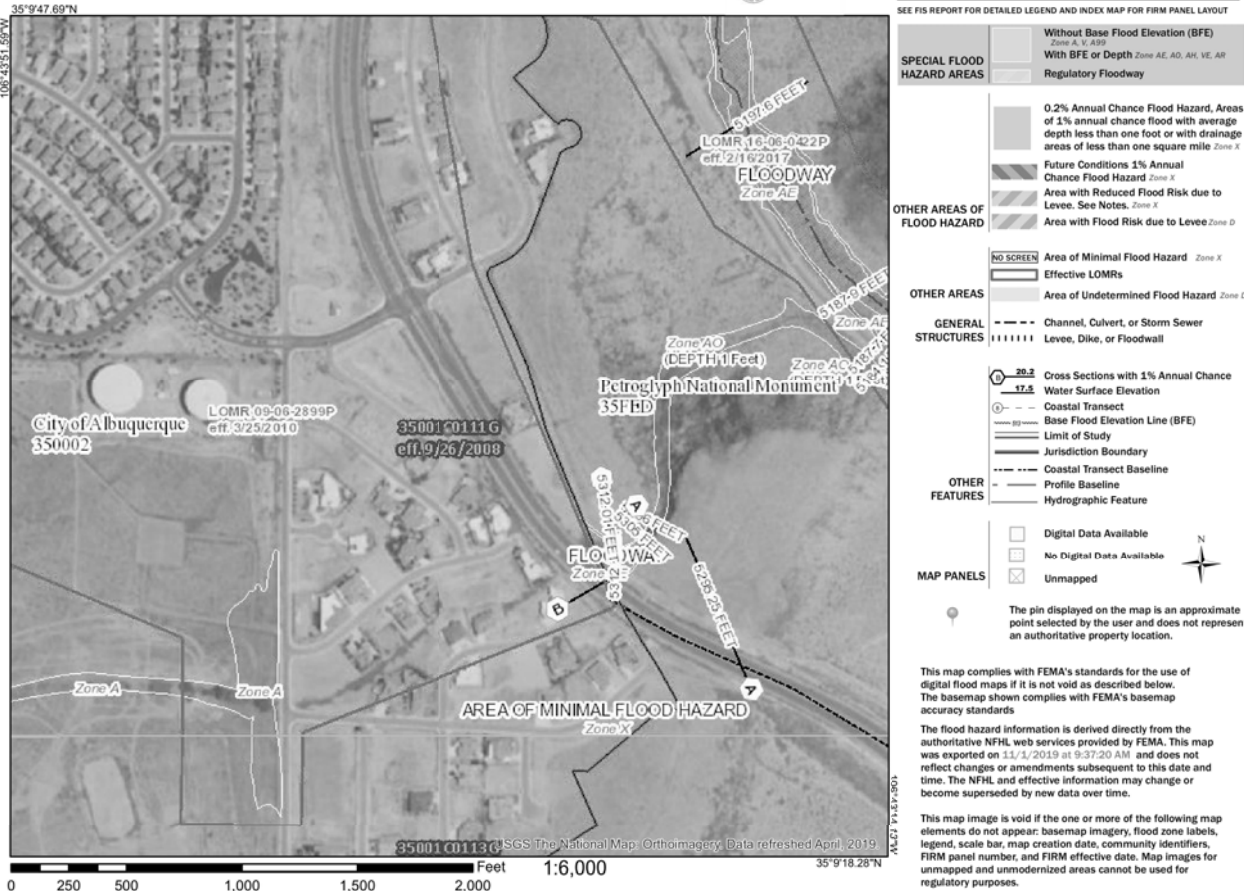
EROSION CONTROL NOTES:

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

National Flood Hazard Layer FIRMette



FIRM MAP:

LEGAL DESCRIPTION:

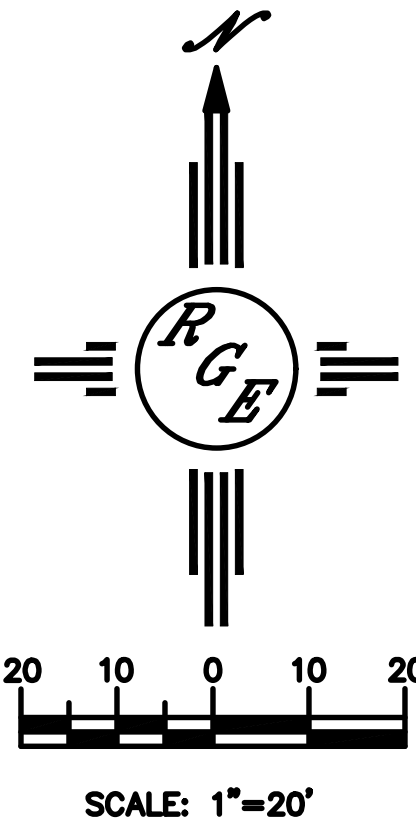
LOT 5 BLOCK 5 UNSER CLIFFS SUBDIVISION
CITY OF ALBUQUERQUE, BERNALILLO NEW MEXICO


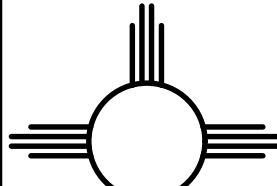
NOTES:

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

- EXISTING CONTOUR
- EXISTING INDEX CONTOUR
- PROPOSED CONTOUR
- PROPOSED INDEX CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- BOUNDARY
- PROPOSED EARTHEN SWALE
- ADJACENT BOUNDARY
- EXISTING CURB AND GUTTER
- PROPOSED CONCRETE DRIVEWAY



ENGINEER'S SEAL  11/6/19 DAVID SOULE P.E. #14522	LOT 5 BLOCK 5 UNSER CLIFFS SUB 6508 ONYX COURT N.W. GRADING AND DRAINAGE PLAN  Rio Grande Engineering 1608 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 972-0899	DRAWN BY DEM
		DATE 11-5-19
		LOT 5 BLK 5 UNSER CLIFFS.DWG
		SHEET # C1
		JOB #