

Weighted E Method

100-Year, 6-hr.										
Basin	Area (sf)	Area (acres)	Treatment A (% acres)	Treatment B (% acres)	Treatment C (% acres)	Treatment D (% acres)	Weighted (ac-ft)	Volume (ac-ft)	Flow cfs	
NATIVE	20337.00	0.467	80%	0.373	10%	0.047	10%	0.516	0.71	
ALLOWED	20337.00	0.467	0%	0	10%	0.047	40%	0.1867	50%	0.233
PROPOSED	20337.00	0.467	0%	0	34%	0.159	40%	0.1867	26%	0.121
INCREASE								1.136	0.044	1.39
total								0.024		

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

Qa= 1.29

Ea= 0.44

Eb= 0.67

Ec= 0.99

Ed= 1.97

Qb= 2.03

Qc= 2.87

Qd= 4.37

ONSITE Conditions

FIRST FLUSH WATER QUALITY VOL

REQUIRED

(CF)

PROVIDED

(CF)

1159

Narrative

This site is within the SAD 228 Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the adjacent property per the master drainage plan. We are ponding the water harvest volume generated by the site we are allowing the upland flow to pass thru the site. This plan has a shallow water harvest pond in excess of the drainage regulations. This plan is in conformance to the masterplan

SITE TBM LS CAP "15074"
EL=5329.59 NAVD 1988

SCREEN WALL 18" MAX RETAINAGE

FIRST FLUSH POND
TOP=29.50
BOTTOM=28.75
VOLUME=1159 CF

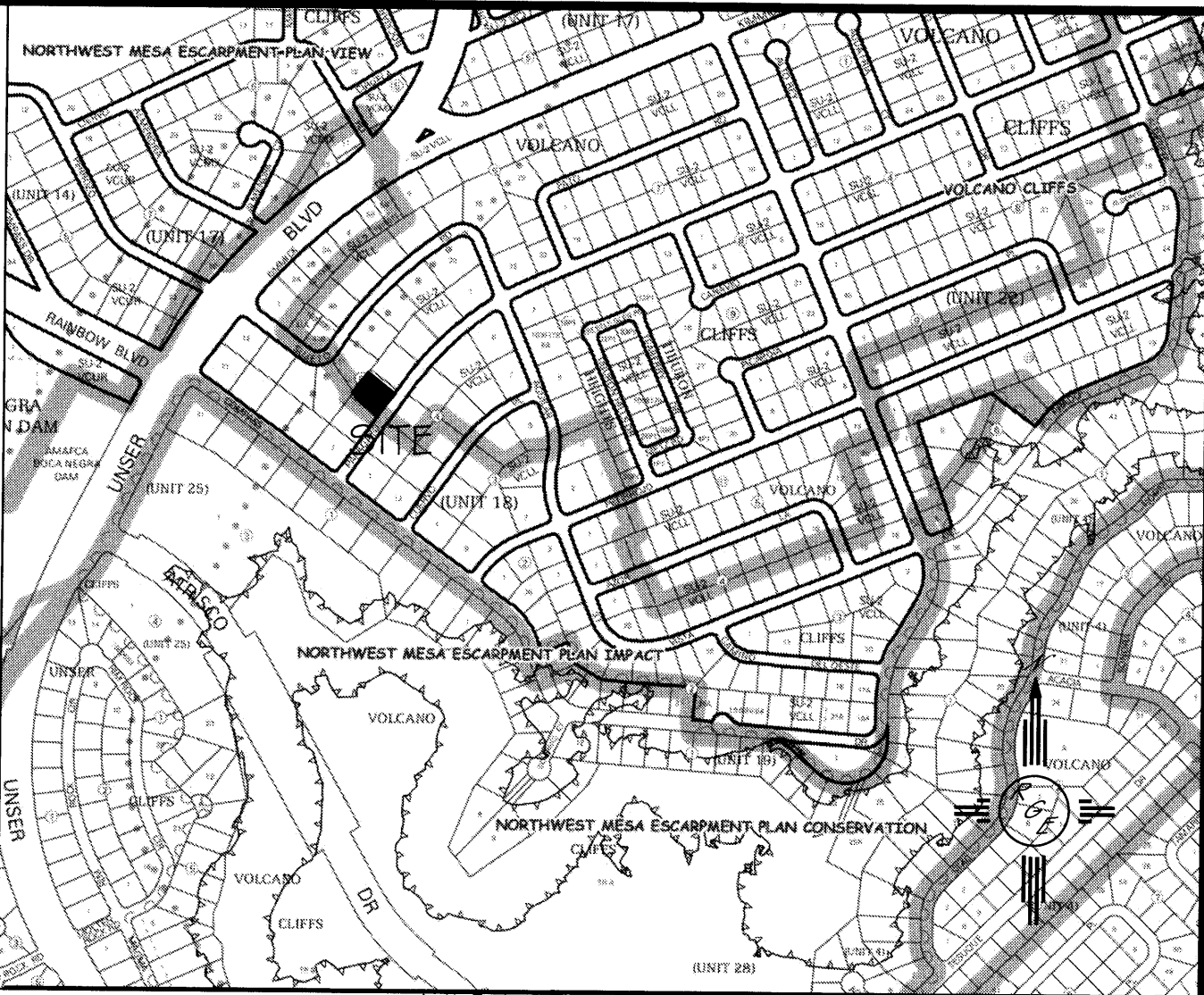
LOT 5
BLOCK 5, UNIT NO. 18
VOLCANO CLIFFS SUBDIVISION

FINISH FLOOR=5332.00
FINISH PAD=5331.50

SCREEN WALL
TURN 1 BLOCK @ EXISTING
GRADE EVERY 20'
TO ALLOW FOR CROSS LOT DRAINAGE
Per 20' of yard, Raise 3' above grade

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 (CITY) ACCEPTANCE OF ANY PROJECT.



VICINITY MAP:



FIRM MAP:

FM35001C0112G

LEGAL DESCRIPTION:

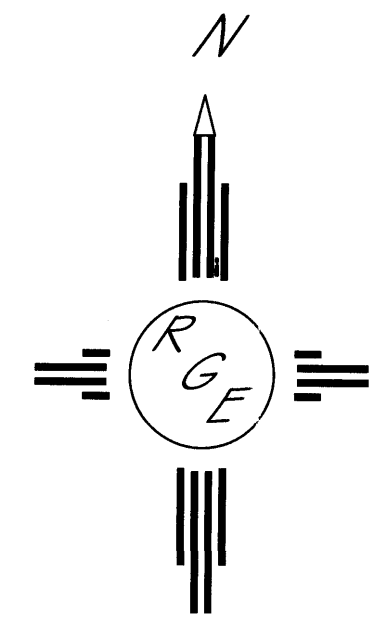
LOT 5, BLOCK 5, UNIT 18, VOLCANO CLIFFS

NOTES:

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. TOPOGRAPHIC SURVEY INFORMATION SHOWN ON THIS PLAN WAS OBTAINED BY CONSTRUCTION SURVEY TECHNOLOGIES, DAVID ACOSTA PLS 21081, AUGUST 2016

LEGEND

- 5411--- EXISTING CONTOUR
- 5410--- EXISTING INDEX CONTOUR
- 5411--- PROPOSED CONTOUR
- 5410--- PROPOSED INDEX CONTOUR
- FLOW DIRECTION-SWALE
- PROPOSED SPOT (FLOW-LINE)



GRAPHIC SCALE

10 5 0 5 10

SCALE: 1" = 10'

ENGINEER'S SEAL	LOT 5, BLOCK 5, UNIT 18 VOLCANO CLIFFS SUBDIVISION	DRAWN BY JDG
DAVID SOULE NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 14522	GRADING AND DRAINAGE PLAN	DATE 08-09-2016
8/9/16	Rio Grande Engineering 1806 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 372-0899	SHEET # 1 OF 1
DAVID SOULE P.E. #14522		JOB #