

Weighted E Method

Basin	Area (sf)	Area (acres)	Treatment A %	Treatment B %	Treatment C %	Treatment D %	Weighted E (ac-ft)	100-Year, 6-hr.		24 hour
								Volume (ac-ft)	Flow cfs	Volume (ac-ft)
ALLOWED	22664.00	0.520	0%	0	20%	0.104	48%	0.2393	34%	0.177
PROPOSED	22664.00	0.520	0%	0	20%	0.104	29%	0.1509	51%	0.265
COMPARISON								1.426	0.062	1.80
									0.007	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= 2.97
Ed= 1.97	Qd= 4.37

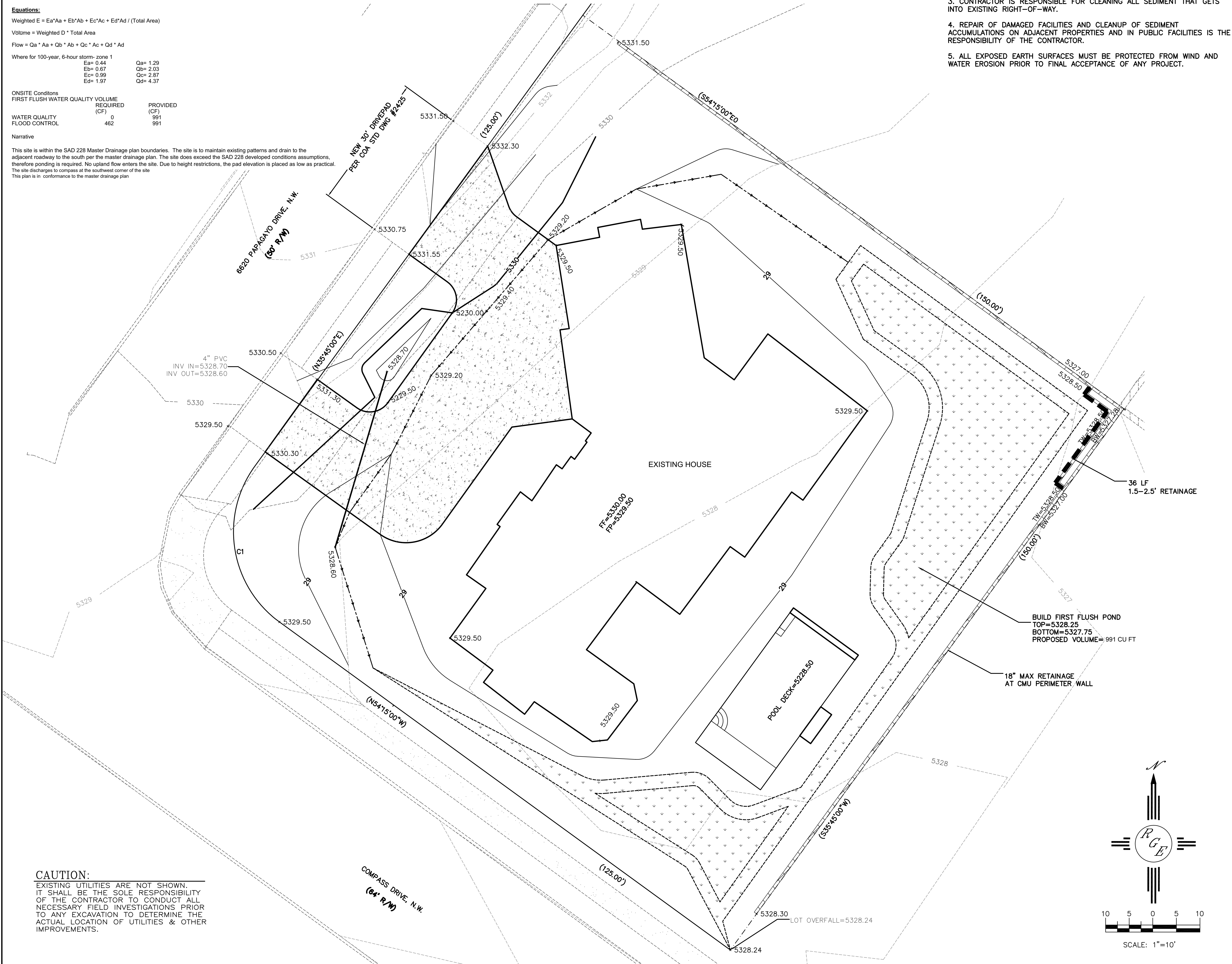
ONSITE Conditions

FIRST FLUSH WATER QUALITY VOLUME

REQUIRED (CF)	PROVIDED (CF)
0	991
462	991

Narrative

This site is within the SAD 228 Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the adjacent roadway to the south per the master drainage plan. The site does exceed the SAD 228 developed conditions assumptions, therefore ponding is required. No upland flow enters the site. Due to height restrictions, the pad elevation is placed as low as practical. The site discharges to compass at the southwest corner of the site. This plan is in conformance to the master drainage plan

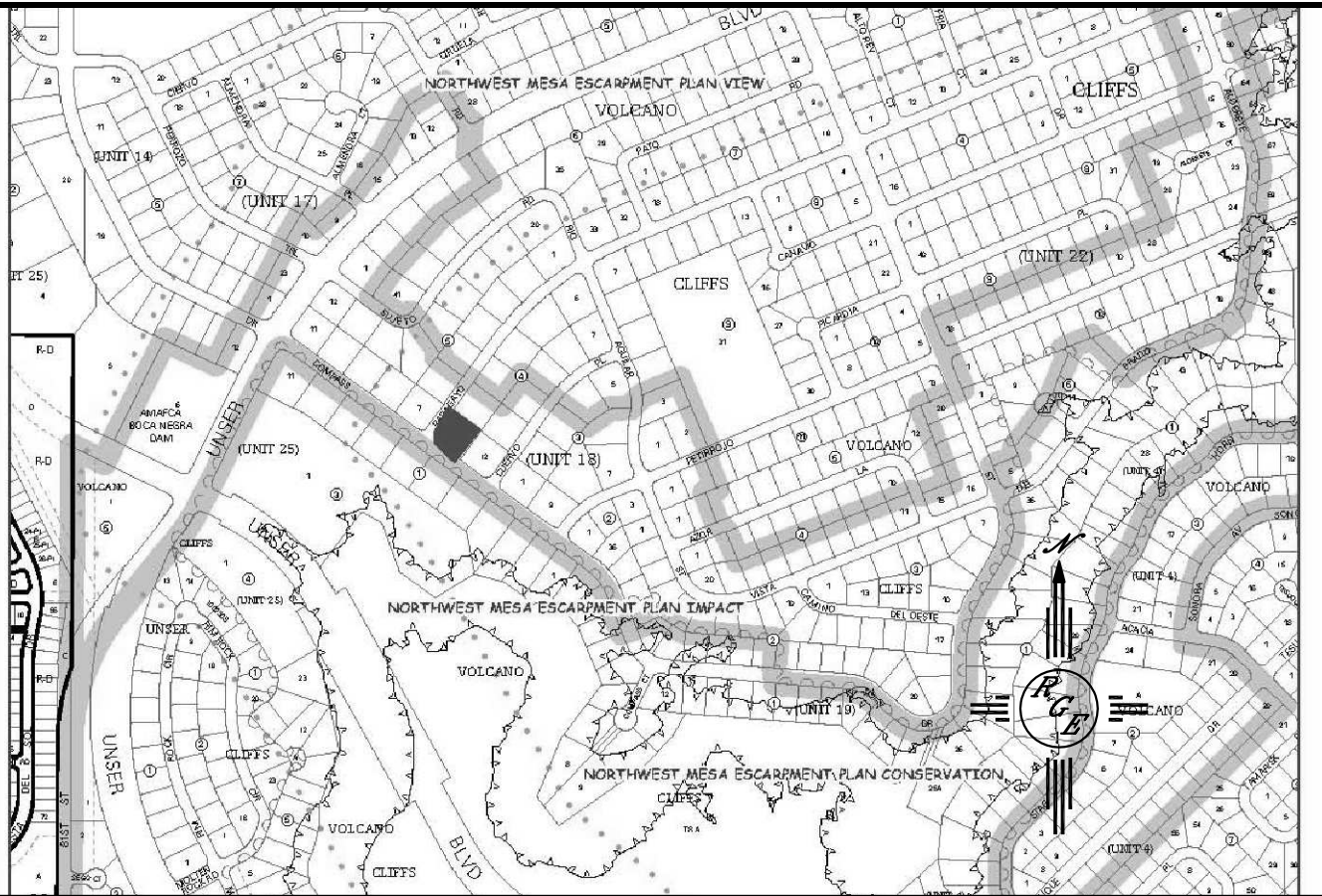


CAUTION:

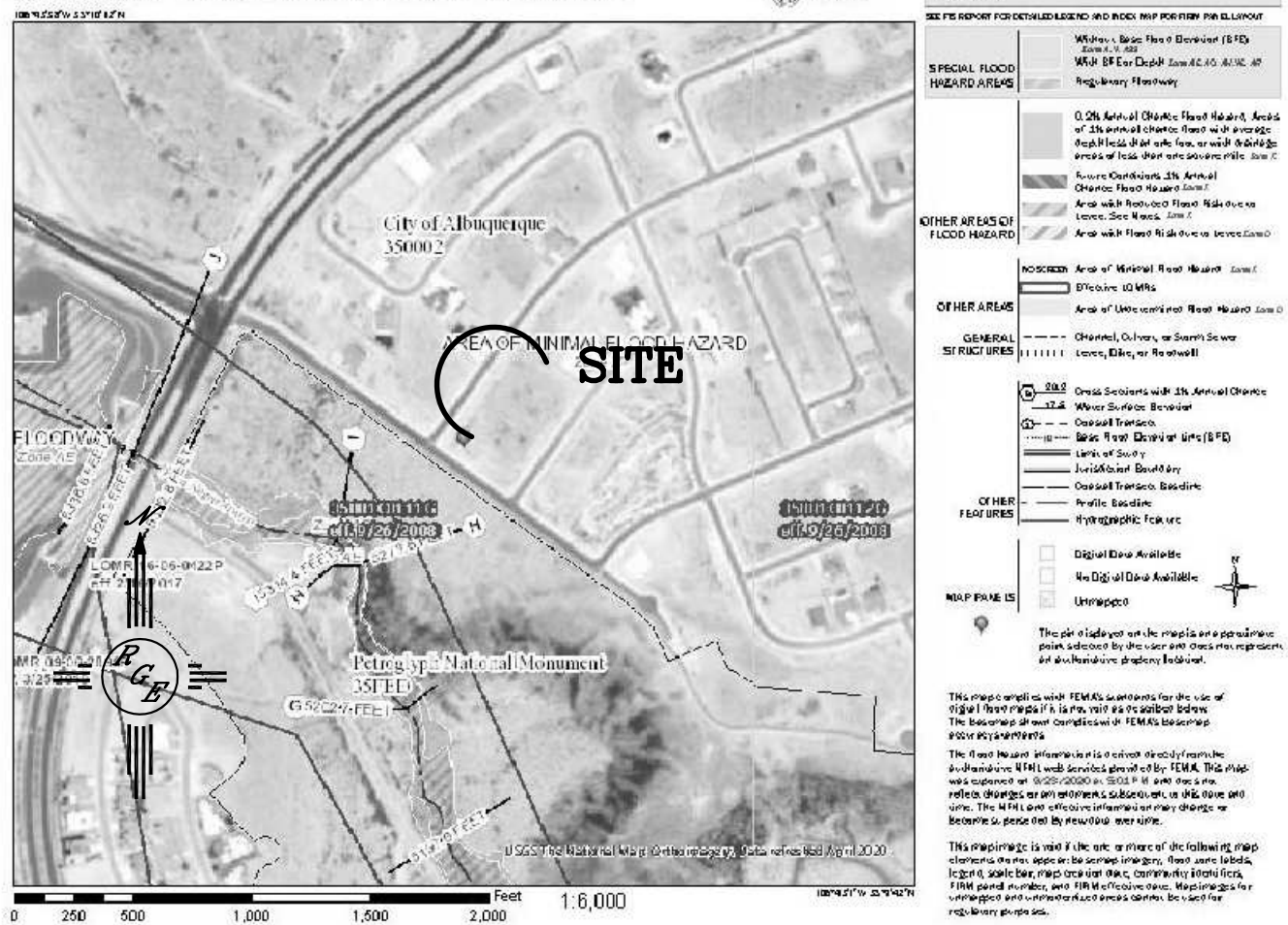
EXISTING UTILITIES ARE NOT SHOWN. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES & OTHER IMPROVEMENTS.

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.



National Flood Hazard Layer FIRMette



FIRM MAP:

LEGAL DESCRIPTION:


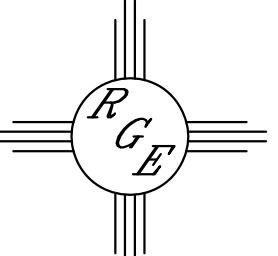
LOT 1, BLOCK 4, VOLCANO CLIFFS UNIT 18

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.

LEGEND

-----XXXX	EXISTING CONTOUR
-----XXXX	EXISTING INDEX CONTOUR
-----XXXX	PROPOSED CONTOUR
-----XXXX	PROPOSED INDEX CONTOUR
+ XXXX	EXISTING SPOT ELEVATION
● XXXX	PROPOSED SPOT ELEVATION
-----	BOUNDARY
-----	ADJACENT BOUNDARY
=====	EXISTING CURB AND GUTTER
----->----->----->	PROPOSED EARTHEN SWALE
=====	PROPOSED RETAINING WALL
-----	PROPOSED CONCRETE
-----	PROPOSED PONDING
-----	PROPOSED RIPRAP-SEE SECTION THIS SHEET

ENGINEER'S SEAL  5/16/23 P.E. #14522 DAVID SOULE	6620 PAPAGAYO	DRAWN BY WCWJ
	GRADING AND DRAINAGE PLAN	DATE 5-15-23
 Rio Grande Engineering PO BOX 93924 ALBUQUERQUE, NM 87199 (505) 321-9099		2102075-LAYOUT-5-15-23
		SHEET # —
		JOB # 2102075