

# CITY OF ALBUQUERQUE

Planning Department  
Alan Varela, Director



Mayor Timothy M. Keller

March 20, 2023

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

RE: **Lot 28 Block 8 Volcano Cliffs Unit 5 SAD 227**  
**6208 Marigold Ct. NW**  
**Grading and Drainage Plan**  
**Engineers Stamp Date: 9/20/2021 (E10D111)**  
**Pad Certification Date: 5/13/2022**  
**CO Certification Date: 3/14/2023**

Mr. Soule:

Based upon the information provided in your submittal received 3/17/2023, this plan for Certificate of Occupancy cannot be approved until the following comment are addressed.

PO Box 1293

Albuquerque

NM 87103

- The port-a-potty needs to be removed.
- Ponds must be filled with some type of gravel.
- Concrete drive pad must be in place.

If you should have any questions please contact me at 505-924-3695 or Rudy E. Rael at 505-924-3977

Sincerely,

www.cabq.gov

Tiequan Chen, P.E. CFM  
Principal Engineer, Hydrology  
Planning Department, Development Review Services

RR/TC  
File E10D111

Weighted E Method

Basin	Area (sf)	Area (acres)	Treatment A (acres)	Treatment B (acres)	Treatment C (acres)	Treatment D (acres)	Weighted E (ac-ft)	100-Year, 6-hr.		24 hour
								Volume (ac-ft)	Flow cfs	
ALLOWED	14780.00	0.339	0%	0	20% 0.068	46% 0.1561	34% 0.115	1.259	0.036	1.09
FRONT	14780.00	0.339	0%	0	20% 0.068	30% 0.1018	50% 0.170	1.416	0.040	1.17

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  
Eb= 0.67  
Ec= 0.99  
Ed= 1.97

Qa= 1.29  
Qb= 2.03  
Qc= 2.87  
Qd= 4.37

ONSITE Conditions  
DRAINAGE SUMMARY

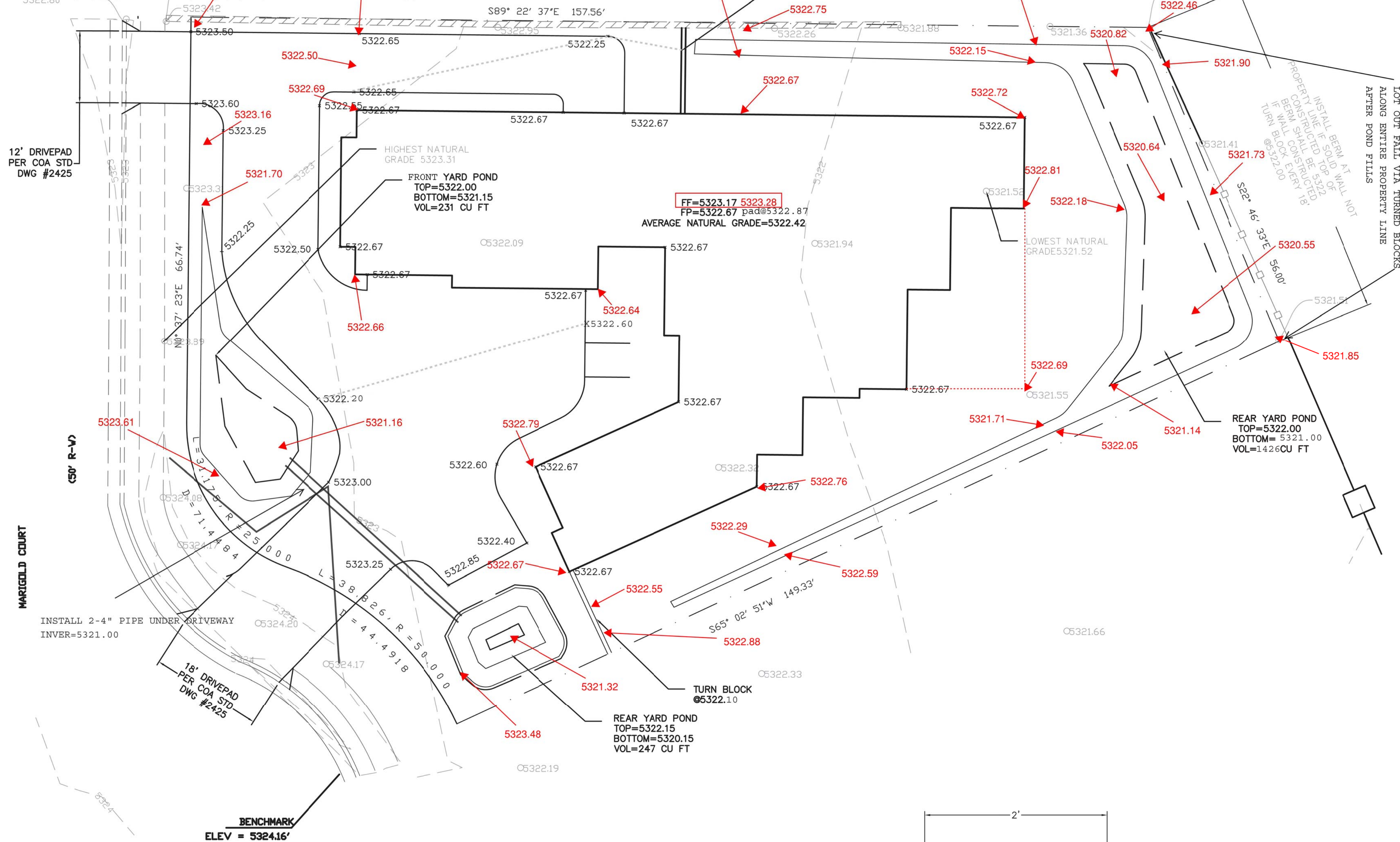
FLOOD CONTROL  
TOTAL GENERATED

REQUIRED  
(CF)  
284  
1744

PROVIDED  
(CF)  
1904  
1904

Narrative

This site is within the SAD 227 Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the adjacent open space property to the east per the master drainage plan. The site does exceed the SAD 227 developed conditions assumptions, therefore ponding is required. Due to the site not being able to drain to the street, the rear yard retention pond holds the 100-year, 6 hour volume and overflows to the openspace. Upland flow does not impact the property. This plan is in conformance to the master drainage plan



I, DAVID SOULE HAVE PERSONALLY INPECTED THE SITE. I HEREBY CERTIFY THE PAD HAS BEEN CONSTRUCTED SUCH THAT IT IS IN SUBSTANTIAL CONFORMANCE TO THE APPROVED GRADING PLAN DATED 9/20/21



5/13/22

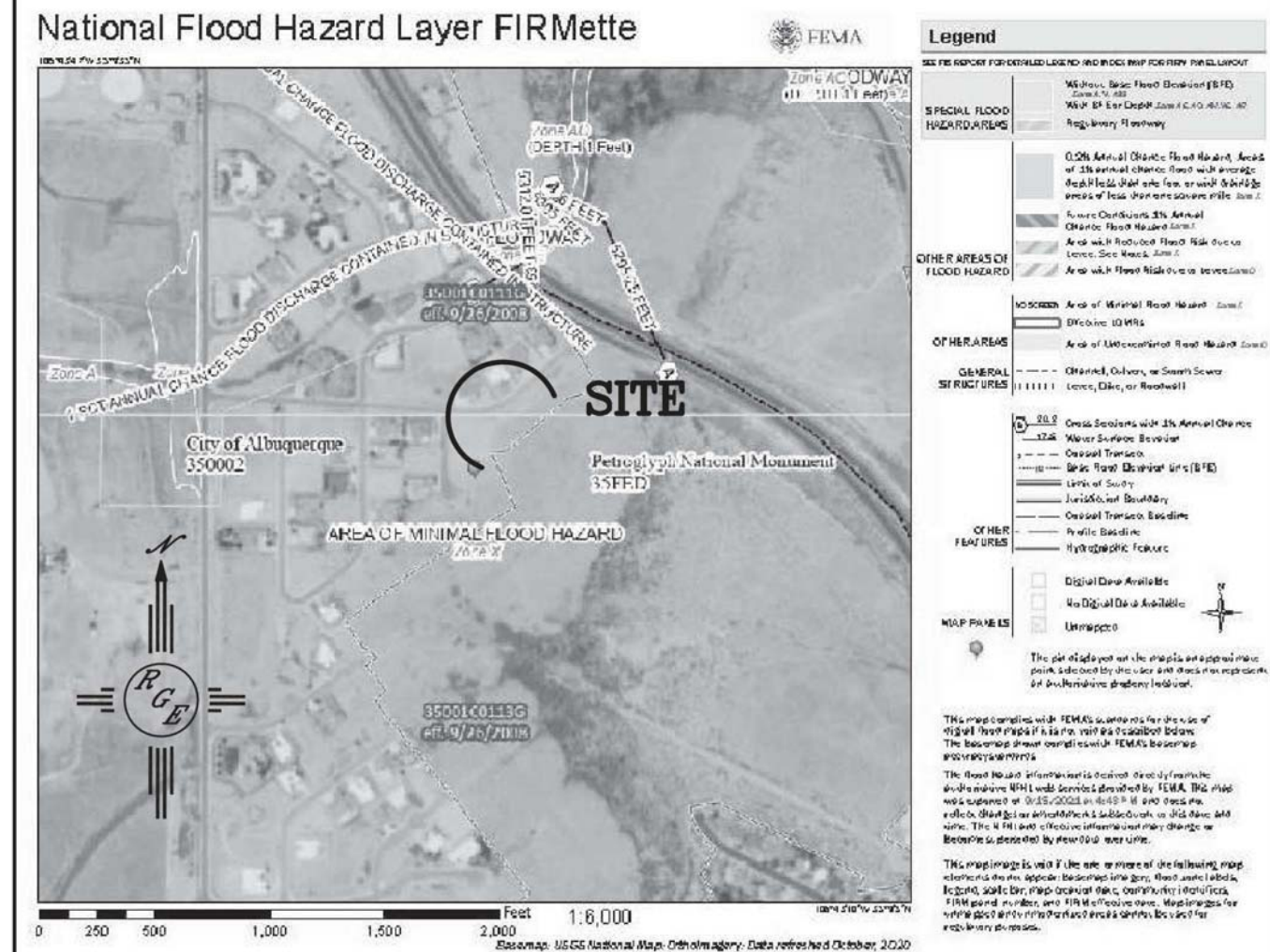
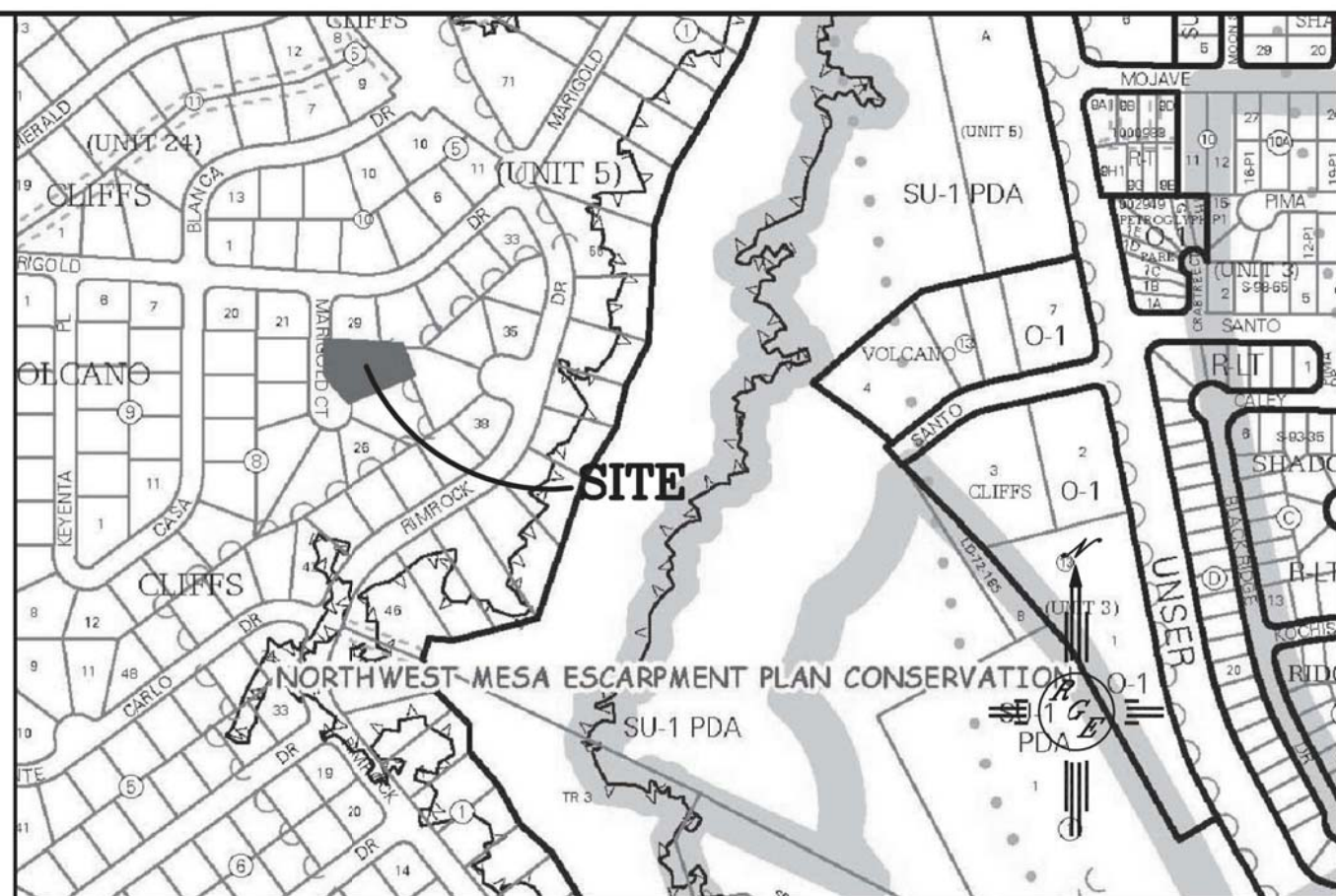
EROSION CONTROL NOTES:

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.

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 date: 9/20/21. The certification is submitted in support of a request for CERTIFICATE OR 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.



3/14/23



FIRM MAP:

LEGAL DESCRIPTION:

LOT 28 BLOCK 8 VOLCANO CLIFFS UNIT 5

NOTES:

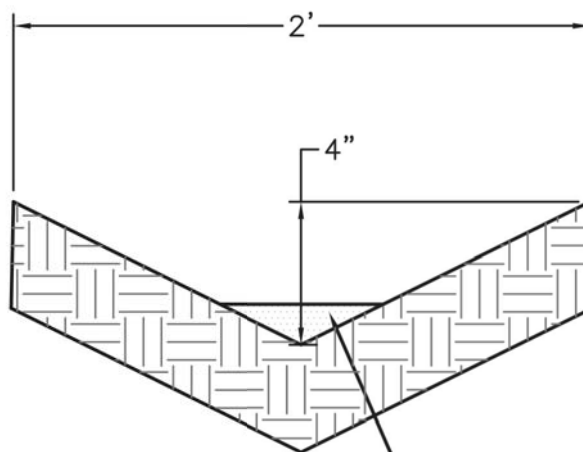
1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. ALL SLOPES SHALL BE 3:1 MAX. AND GRAVEL OR NATIVE SEEDING PRIOR TO CO.
3. NO PONDING WITHIN 10' OF STRUCTURE.

LEGEND

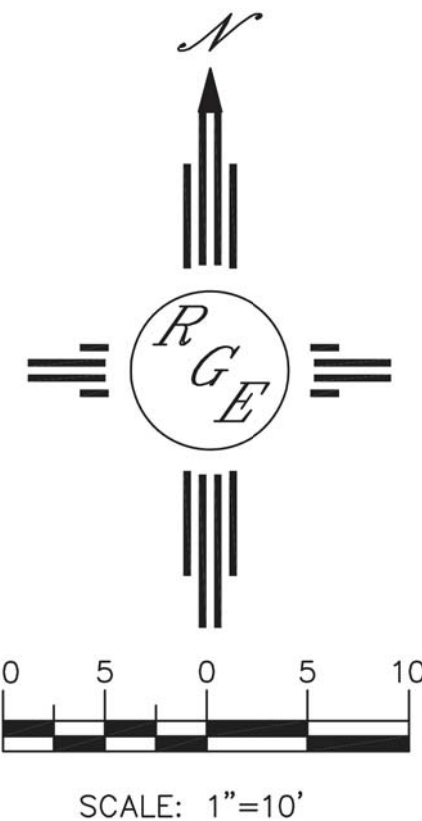
---	XXXX	EXISTING CONTOUR
---	XXXX	EXISTING INDEX CONTOUR
---	XXXX	PROPOSED CONTOUR
---	XXXX	PROPOSED INDEX CONTOUR
---	XXXX	SLOPE TIE
+	XXXX	EXISTING SPOT ELEVATION
+	XXXX	PROPOSED SPOT ELEVATION
---	---	LOT LINE
---	---	CENTERLINE
---	---	RIGHT-OF-WAY
---	---	PROPOSED 4" PVC SD
---	---	GRAVEL LINED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

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



ENGINEER'S SEAL  9/20/21 DAVID SOULE P.E. #14522	6208 MARIGOLD	DRAWN BY: WCVJ DATE: 9-17-21 210210085-LAYOUT-9-18-21
	GRADING AND DRAINAGE PLAN  1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999	SHEET # — JOB # 210210085