

Weighted E Method

| | | | | | | | | | | 100-Year, 6-hr. | | | 24 hour | |
|------------|--------------|-----------------|---------------------------|---------------------------|---------------------------|---------------------------|-----------------------|-------------------|-------------|-------------------|-------|-------|---------|-------|
| Basin | Area (sf) | Area (acres) | Treatment A (% (acres) | Treatment B (% (acres) | Treatment C (% (acres) | Treatment D (% (acres) | Weighted E (ac-ft) | Volume (ac-ft) | Flow cfs | Volume (ac-ft) | | | | |
| ALLOWED | 11264.00 | 0.259 | 0% | 0 | 20% | 0.052 | 46% | 0.1189 | 34% | 0.088 | 1.259 | 0.027 | 0.83 | 0.031 |
| PROPOSED | 11264.00 | 0.259 | 0% | 0 | 23% | 0.059 | 36% | 0.0931 | 39% | 0.101 | 1.279 | 0.028 | 0.83 | 0.031 |
| COMPARISON | | | | | | | | | | | 0.000 | | | 0.001 |

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

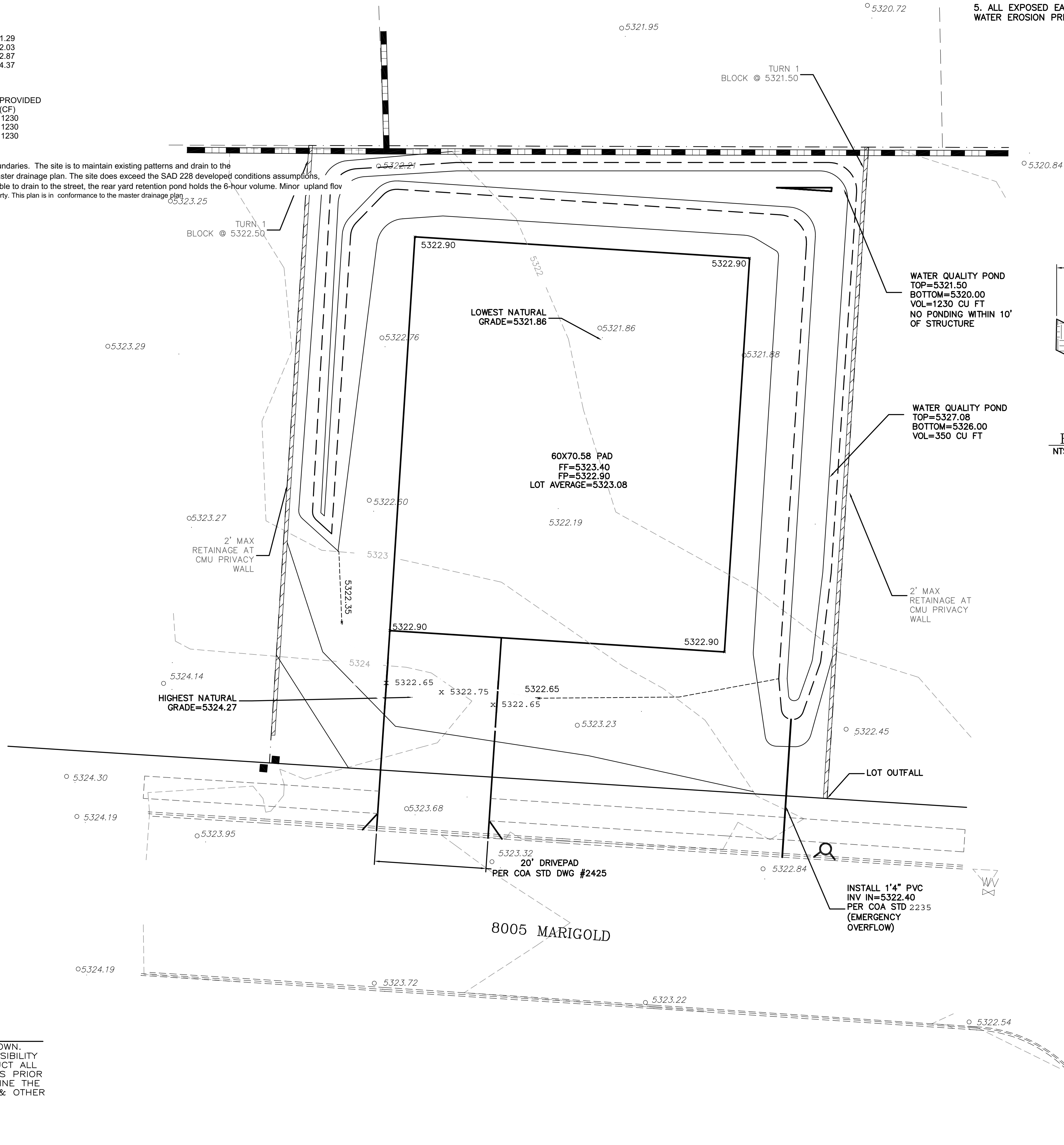
Ea= 0.44
Eb= 0.67
Ec= 0.99
Ed= 1.97

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

ONSITE Conditions
DRAINAGE SUMMARY

| | REQUIRED (CF) | PROVIDED (CF) |
|------------------|------------------|------------------|
| WATER QUALITY | 0 | 1230 |
| FLOOD CONTROL | 40 | 1230 |
| TOTAL GENERATION | 1200 | 1230 |
| Narrative | | |

This site is within the SAD 227 Master Drainage plan boundaries. The site is to maintain existing patterns and drain to the adjacent property to the south and to the east per the master drainage plan. The site does exceed the SAD 228 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 6-hour volume. Minor upland flow enters the site from the west and is allowed to pass thru the property. This plan is in conformance to the master drainage plan

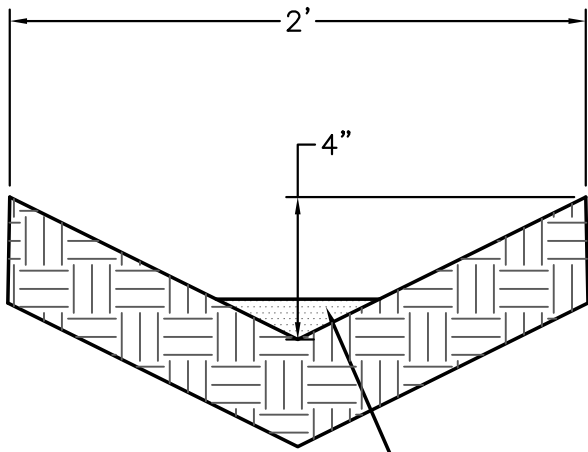


CAUTION:

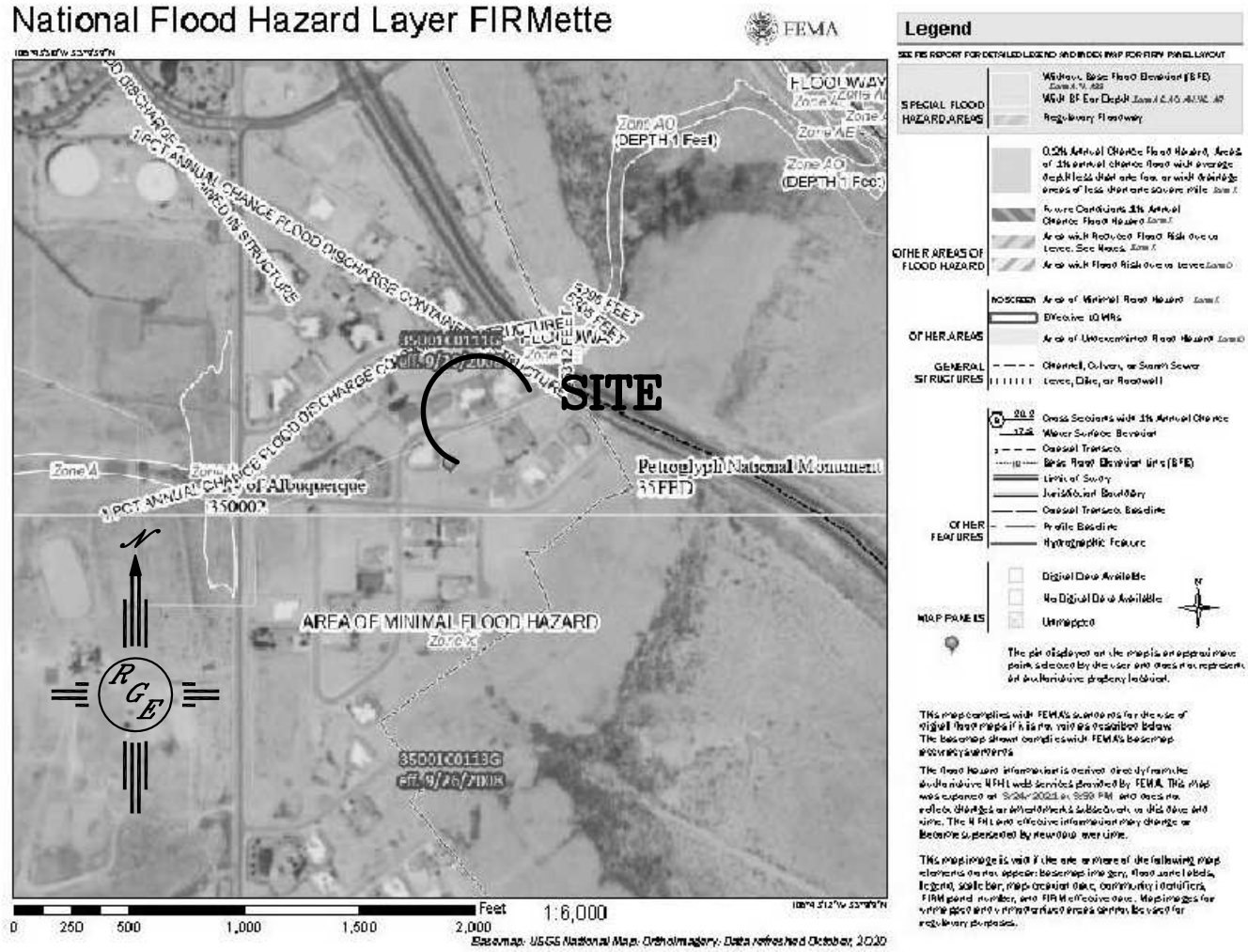
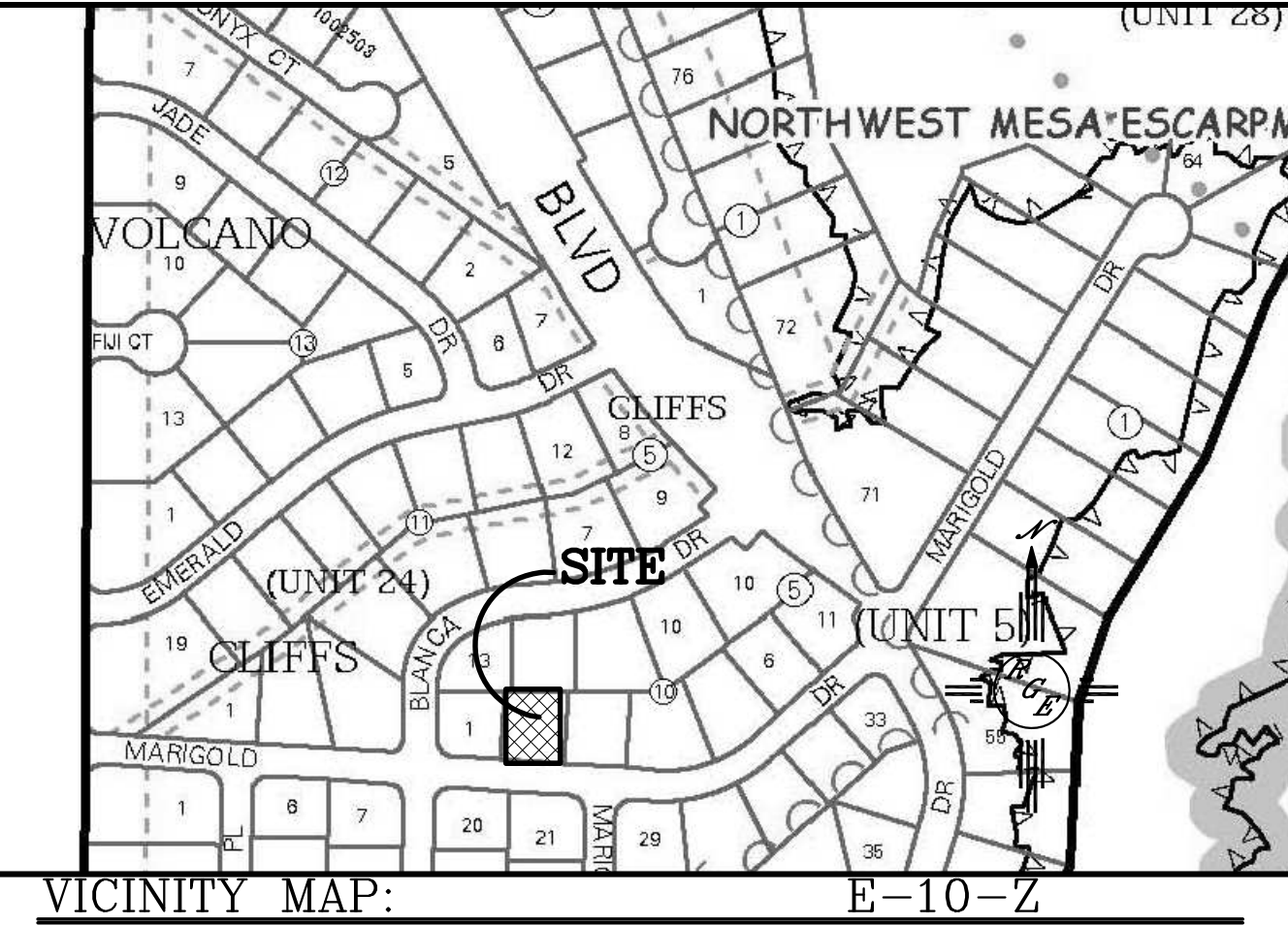
EXISTING UTILITIES ARE NOT SHOWN. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES & OTHER IMPROVEMENTS.

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.



EARTHEN SWALE DETAIL
NTS



FIRM MAP:

LEGAL DESCRIPTION:


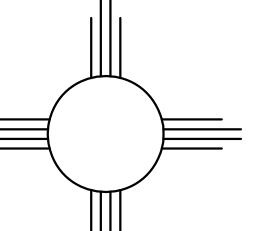
Lot 2, Block 10, Volcano Cliffs Subdivision Unit 5

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.
4. PAD WAS LOWERED 6.5" AT THE REQUEST OF DR HORTON

LEGEND

- XXXX--- EXISTING CONTOUR
- - - - - 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

| | | |
|---|---------------------------|--------------------------|
| ENGINEER'S SEAL  7/30/21 | 8005 MARIGOLD | DRAWN BY: WCVJ |
| | GRADING AND DRAINAGE PLAN | DATE: 3-24-21 |
|  1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0999 | | 210210032-LAYOUT-3-24-21 |
| | | SHEET # |
| | | JOB # 21021032 |