

CITY OF ALBUQUERQUE

Planning Department
David Campbell, Director



Mayor Timothy M. Keller

November 7, 2018

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

RE: 13612 Sunset Canyon NE
Grading and Drainage Plan
Engineer's Stamp Date: 10/31/18
Hydrology File: F23D014

Dear Mr. Soule:

PO Box 1293

Based upon the information provided in your submittal received 10/31/18, the Grading and Drainage Plan is approved for Building Permit.

Albuquerque

Once the grading is complete, a pad certification will be required prior to release of Building Permit. Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter and the pad certification approval letter.

NM 87103

Prior to approval in support of Permanent Release of Occupancy by Hydrology, Engineer Certification per the DPM checklist will be required and a formal Elevation Certificate needs to be submitted to Hydrology.

www.cabq.gov

If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gov.

Sincerely,

Renée C. Brissette, P.E. CFM
Senior Engineer, Hydrology
Planning Department

Weighted E Method

Existing Developed Basins										100-Year, 6-hr.			10-day	
Basin	Area (sf)	Area (acres)	Treatment A		Treatment B		Treatment C		Treatment D		Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs	Volume (ac-ft)
			% (acres)		% (acres)		% (acres)		% (acres)					
UPLAND	8624	0.198	0%	0	40.0%	0.079	50.0%	0.09899	10%	0.020	1.006	0.017	0.54	0.019
EXISTING	22024	0.506	10%	0.05056	40.0%	0.202	40.0%	0.20224	0%	0.000	1.096	0.046	1.46	0.046
PROPOSED	22024	0.506	0%	0	30.0%	0.152	24.0%	0.12134	36%	0.182	1.625	0.068	1.85	0.093

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

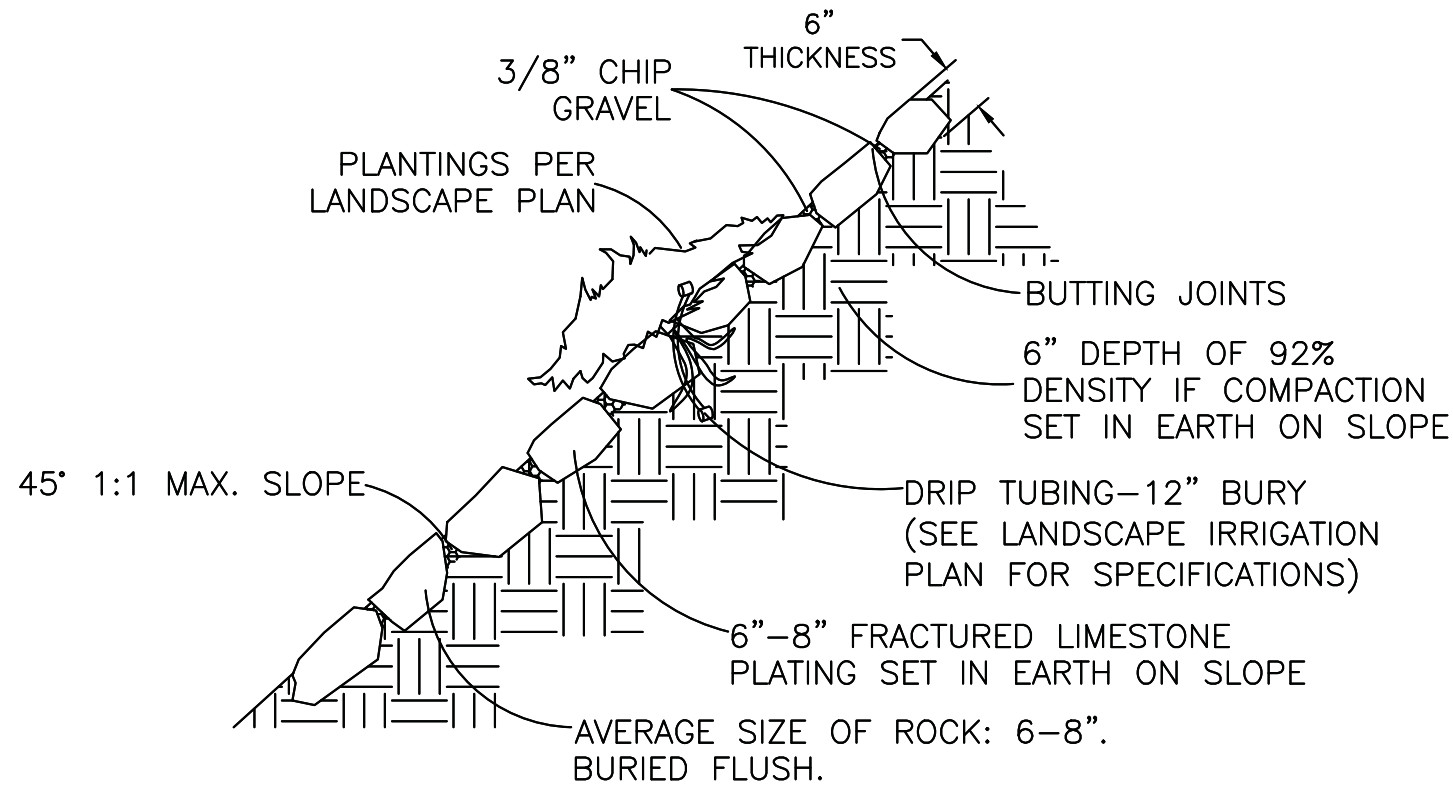
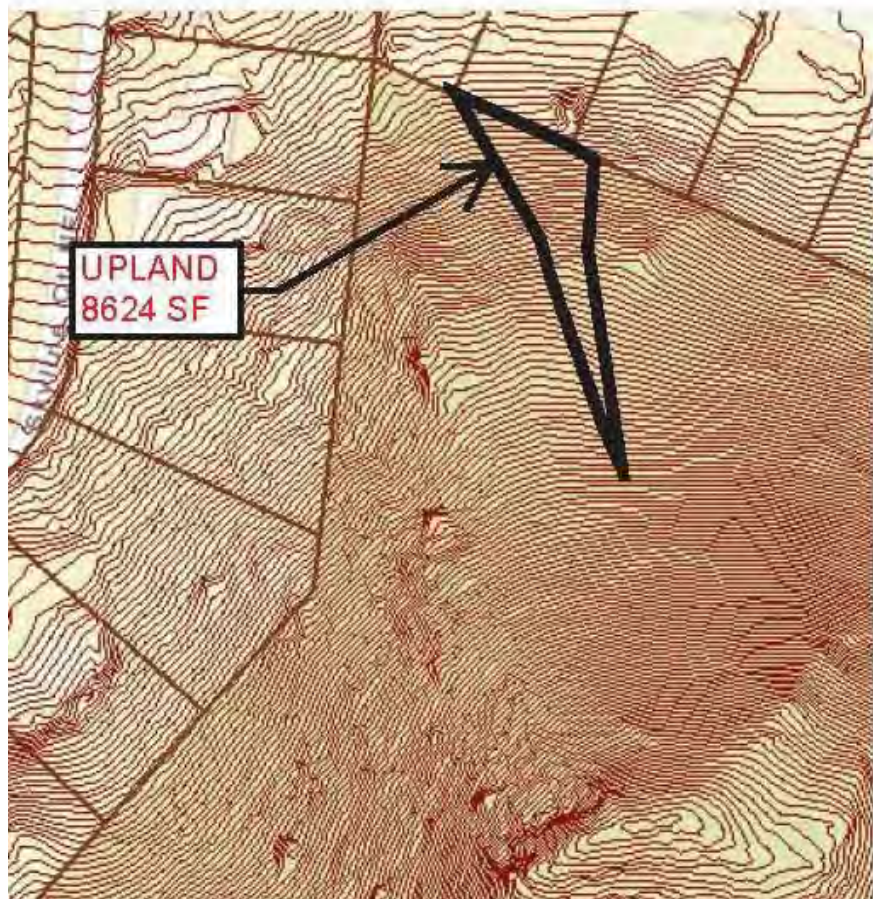
Where for 100-year, 6-hour storm (zone 4)

Ea= 0.8
Eb= 1.08
Ec= 1.46
Ed= 2.64

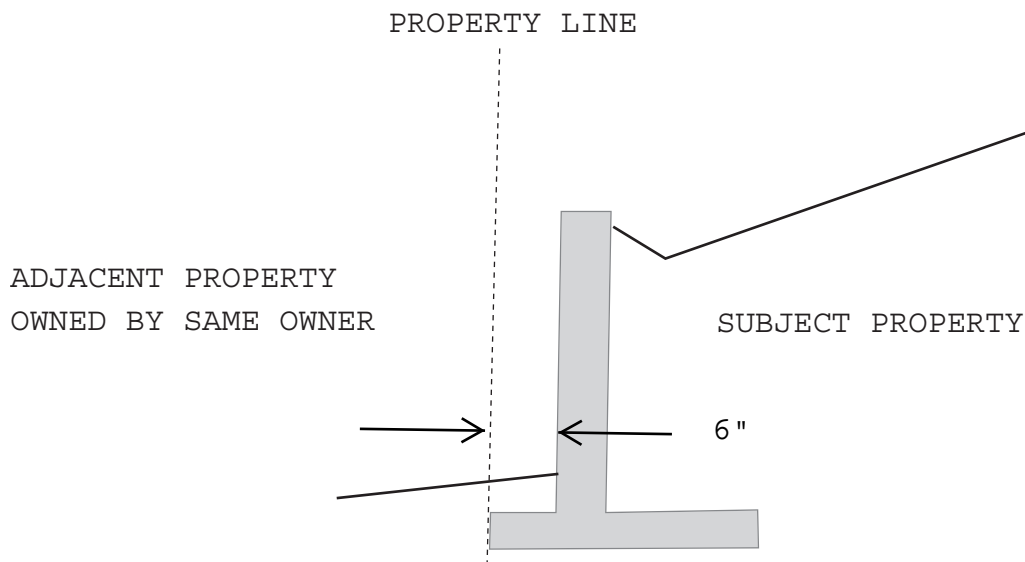
Qa= 2.2
Qb= 2.92
Qc= 3.73
Qd= 5.25

DRAINAGE NARRATIVE

THIS SITE IS A LOT WITHIN A FULLY DEVELOPED RESIDENTIAL SUBDIVISION. THE SITE IS ADJACENT TO FULLY DEVELOPED ROADWAYS. THE SITE HAS A SMALL UPLAND UNDEVELOPED WATER SHED THAT ENTERS AS SHEET FLWO. THE DENSITY OF THIS DEVELOPMENT IS SIMILAR TO THE SURROUNDING FULLY DEVELOPED CONDITIONS. THE SITE WILL FREE DISCHARGE. THIS SITE IS NOT REQUIRED TO RETAIN THE FIRST FLUSH, YET A SMALL DESILATION POND HAS BEEN ADDED ADJACENT TO THE ROAD



ROCK PLATING DETAIL



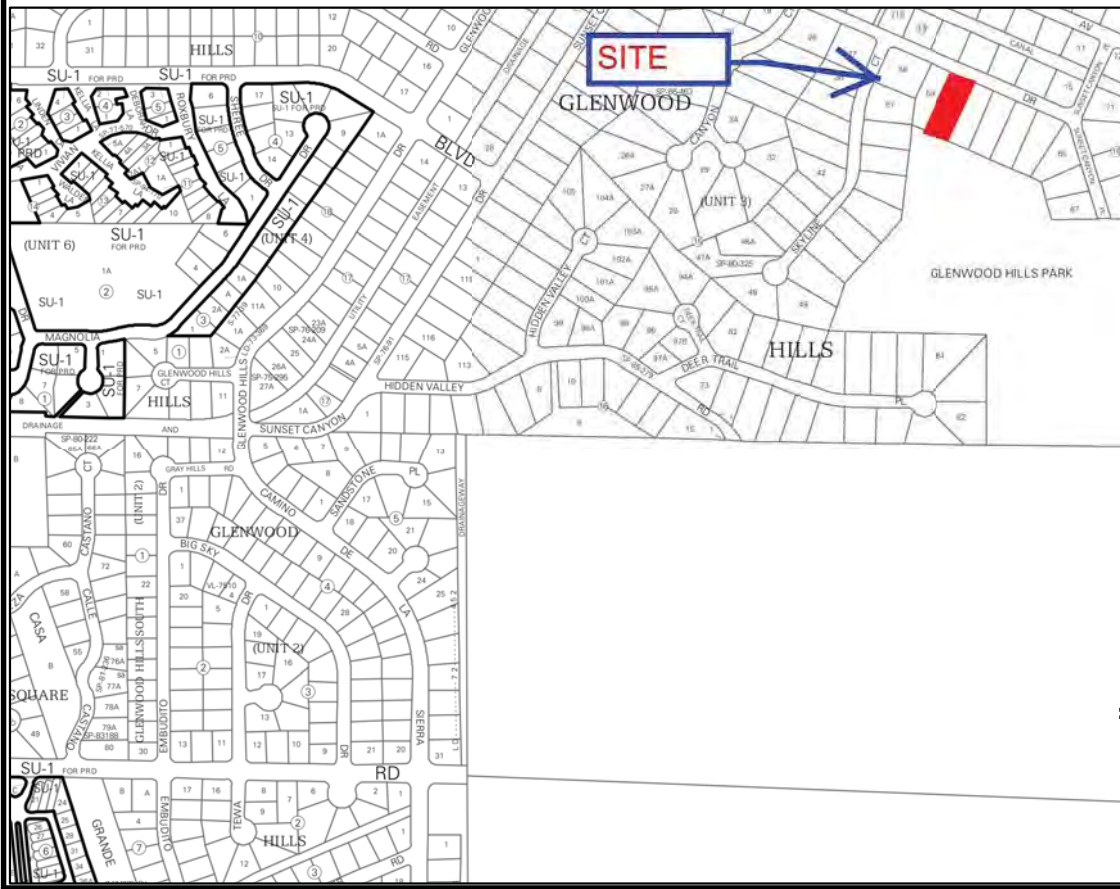
CAUTION:

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.

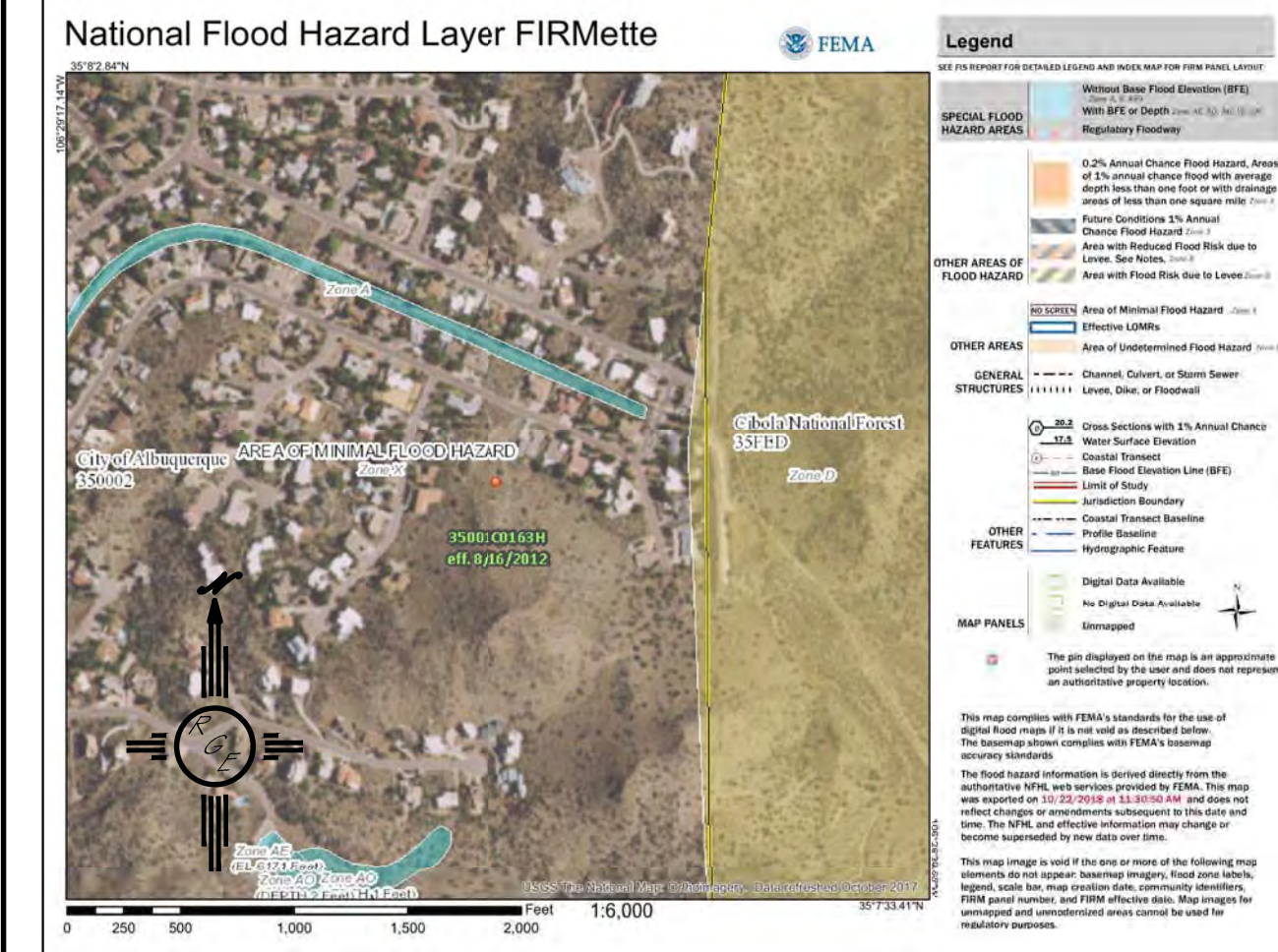
NOTE: WALL AND FOOTING SHALL NOT ENCRoACH ON ADJACENT PROPERTY UNLESS WRITTEN PERMISSION IS PROVIDED FOR THE CITY DRAINAGE FILE PRIOR TO CONSTRUCTION

EROSION CONTROL NOTES:

- CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
- REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.



VICINITY MAP: G-23-Z



FIRM MAP:

LEGAL DESCRIPTION:

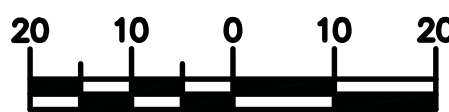
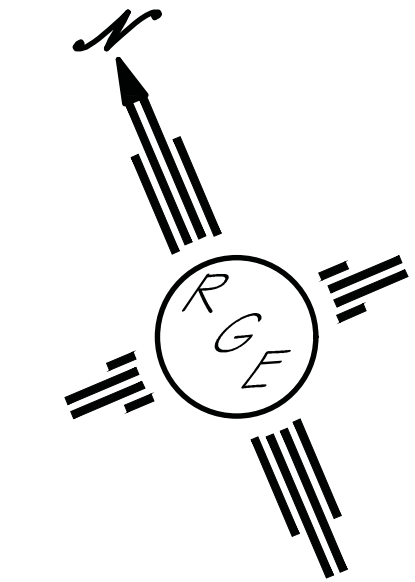
LOT 60, BLOCK 15 GLENWOOD HILLS UNIT 3
BERNALILLO COUNTY, NEW MEXICO

NOTES:


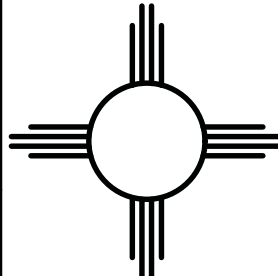
- ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
- ALL SLOPES SHALL BE 3:1 MAX. AND GRAVEL OR NATIVE SEEDING PRIOR TO CO.
- ANY PERIMETER WALLS MUST BE PERMITTED SEPARATELY. ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.
- SURVEY INFORMATION PROVIDED BY COMMUNITY SCIENCES CORPORATION USING NAVD DATUM 1988.

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 RETAINING WALL



SCALE: 1"=20'

ENGINEER'S SEAL  10/31/18	LOT 60, BLOCK 15 GLENWOOD HILLS UNIT 3 GRADING AND DRAINAGE PLAN	DRAWN By DEM
		DATE 10-26-18
DAVID SOULE P.E. #14522	 1006 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87108 (505) 672-0888	SHEET # C1
		JOB #