CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director

Mayor Timothy M. Keller

July 26, 2021

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

RE: 6433 Dennision Rd. SW
Grading and Drainage Plan
Engineer's Stamp Date: 06/23/21
Engineer's Certification Date: 07/15/21
Hydrology File: K11D068B

Dear Mr. Soule:

Based upon the information provided in your submittal received 07/20/2021 and site photos sent on 07/26/21, the Grading and Drainage Plan is approved for Building Permit and Building Pad Certification for 6433 Dennision Rd. SW. Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter.

Prior to approval in support of Permanent Release of Occupancy by Hydrology, Engineer Certification per the DPM checklist will be required.

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

Sincerely,

Renée C. Brissette

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

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: 6433 DENNISON Building Permit #:_____ Hydrology File #: _____

DRB#: _____ EPC#: _____ Work Order#: _____

Legal Description: LOT 9, BLOCK B CARLOS REY SUBDIVISION

City Address: 6433 DENNISON

Applicant: _____ Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

Other Contact: RIO GRANDE ENGINEERING Contact: DAVID SOULE

Address: PO BOX 93924 ALB NM 87199

Phone#: 505.321.9099 Fax#: 505.872.0999 E-mail: david@riograndeengineering.com

TYPE OF DEVELOPMENT: ___ PLAT X RESIDENCE ___ DRB SITE ___ ADMIN SITE

Check all that Apply:

DEPARTMENT:

X HYDROLOGY/ DRAINAGE

___ TRAFFIC/ TRANSPORTATION

TYPE OF SUBMITTAL:

___ ENGINEER/ARCHITECT CERTIFICATION

X PAD CERTIFICATION

___ CONCEPTUAL G & D PLAN

___ GRADING PLAN

___ DRAINAGE REPORT

___ DRAINAGE MASTER PLAN

___ FLOODPLAIN DEVELOPMENT PERMIT APPLIC

___ ELEVATION CERTIFICATE

___ CLOMR/LOMR

___ TRAFFIC CIRCULATION LAYOUT (TCL)

___ TRAFFIC IMPACT STUDY (TIS)

___ STREET LIGHT LAYOUT

___ OTHER (SPECIFY) _____

___ PRE-DESIGN MEETING?

IS THIS A RESUBMITTAL?: X Yes ___ No

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

X BUILDING PERMIT APPROVAL

___ CERTIFICATE OF OCCUPANCY

___ PRELIMINARY PLAT APPROVAL

___ SITE PLAN FOR SUB'D APPROVAL

___ SITE PLAN FOR BLDG. PERMIT APPROVAL

___ FINAL PLAT APPROVAL

___ SIA/ RELEASE OF FINANCIAL GUARANTEE

___ FOUNDATION PERMIT APPROVAL

___ GRADING PERMIT APPROVAL

___ SO-19 APPROVAL

___ PAVING PERMIT APPROVAL

___ GRADING/ PAD CERTIFICATION

___ WORK ORDER APPROVAL

___ CLOMR/LOMR

___ FLOODPLAIN DEVELOPMENT PERMIT

___ OTHER (SPECIFY) _____

DATE SUBMITTED: _____ By: _____

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED:_____

FEE PAID:_____

Weighted E Method

											100-Year, 6-hr.			100 yr 10-DAY
Basin	Area	Area	Treatment A		Treatment B		Treatment C		Treatment D		Weighted E	Volume	Flow	Volume
	(sf)	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	(ac-ft)	(ac-ft)	cfs	(ac-ft)
Historical	6104.00	0.140	50%	0.0701	50%	0.070	0%	0.000	0%	0.000	0.710	0.008	0.27	0.008
FRONT PROPOSED	4139.00	0.095	0%	0	13%	0.012	18%	0.017	69%	0.066	0.935	0.007	0.26	0.013
REAR PROPOSED	1965.00	0.045	0%	0	30%	0.014	40%	0.018	30%	0.014	1.351	0.005	0.15	0.006

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(zone2)

Ea= 0.62	Qa= 1.56
Eb= 0.8	Qb= 2.28
Ec= 1.03	Qc= 3.14
Ed= 2.33	Qd= 4.7

Developed Conditons

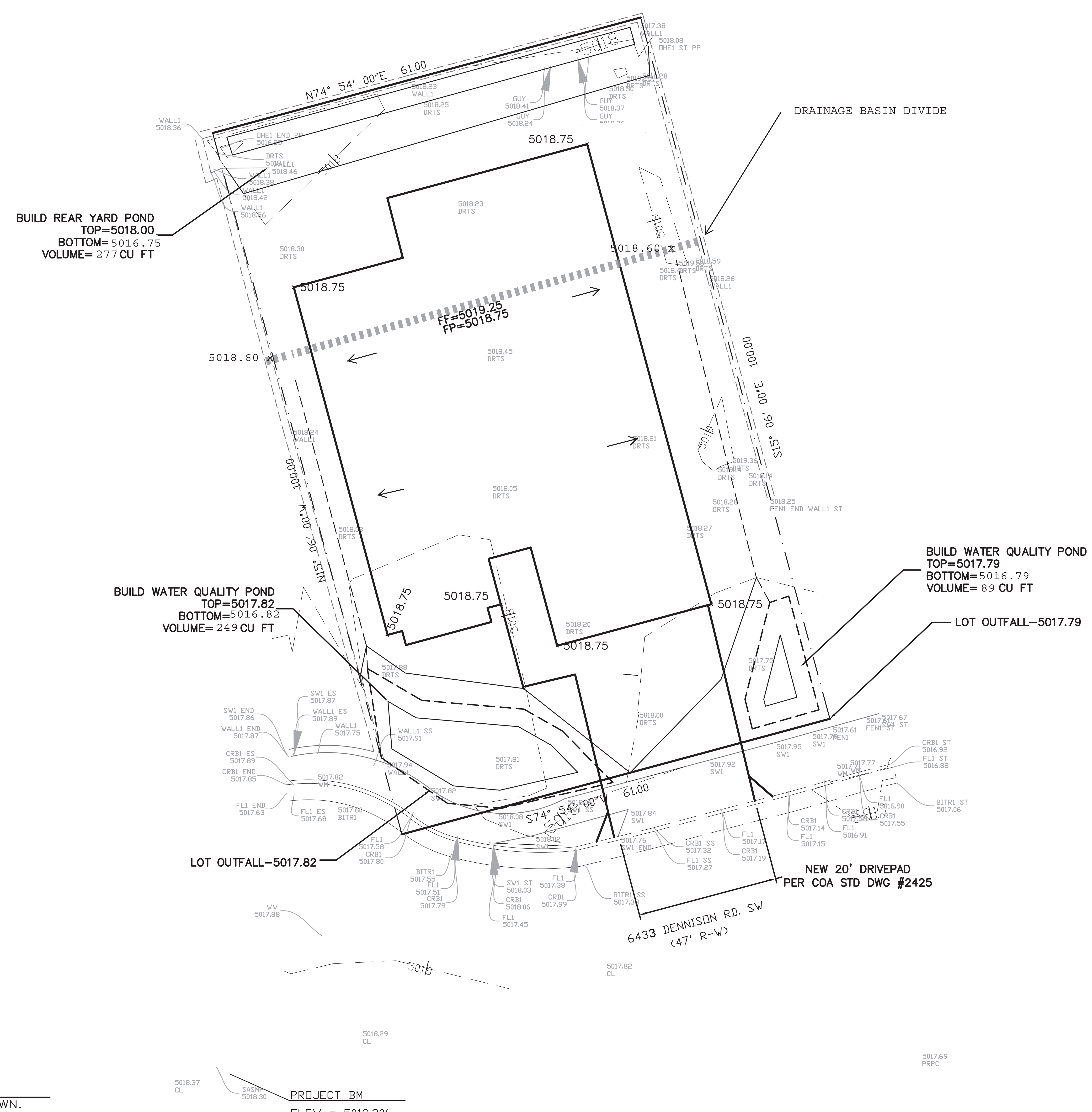
	TOTAL VOLUME REQUIRED	PROVIDED	PEAK FLOW OFFSITE
HISTORICAL DISCHARGE	361 CF	0	0.27
PROPOSED TO STREET	580 CF	338	0.26
PROPOSED REAR	274	277	0

This site is an redevelopment of a lot in a fully developed area. The existing lots all free discharge. Based upon the existing development pattern and lot size the drainage shall be handled by retaining a portion of the house and rear yard while discharging the front to the street. Due to retaining the rear, the overall discharge is less than existing. Due to the extensive ponding in the front, this discharge rate will actually be less . The front ponds will overlow to the street in the event of a storm exceeding the 100-year event. The site is no impacted by upland flow

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: BASED UPON APPROVAL FROM DESIGN ENGINEER THE PAD HAS BEEN CONSTRUCTED 12" LOWER. THE DRAINAGE CONCEPT HAS NOT CHANGED. I CERTIFY THE PAD IS AT A GRADE THAT CONFORMS TO THE APPROVED PLAN AND ACCEPTABLE FOR RELEASE OF BUILDING PERMIT

DAVID SOULE NEW MEXICO 14522 REGISTERED PROFESSIONAL ENGINEER

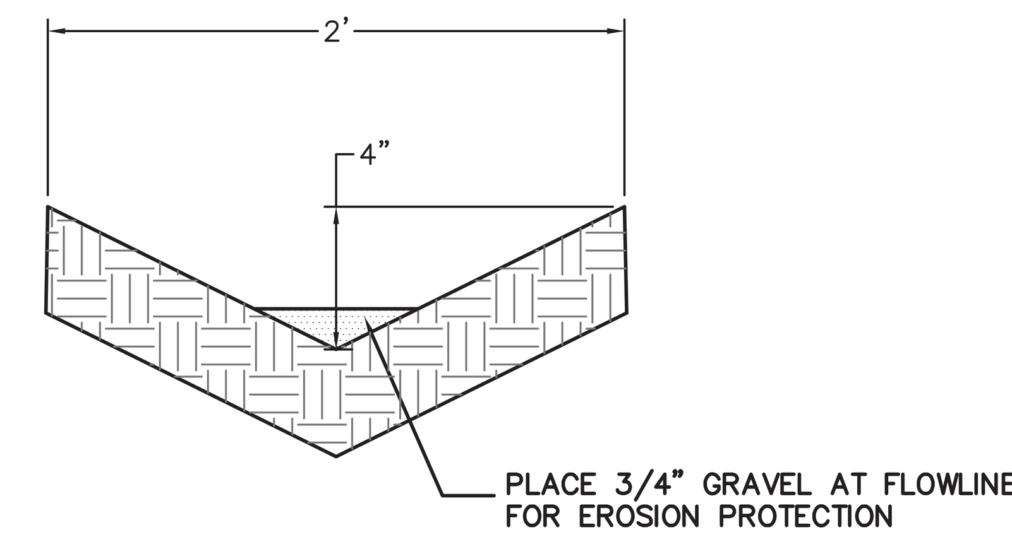
7/15/21



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:

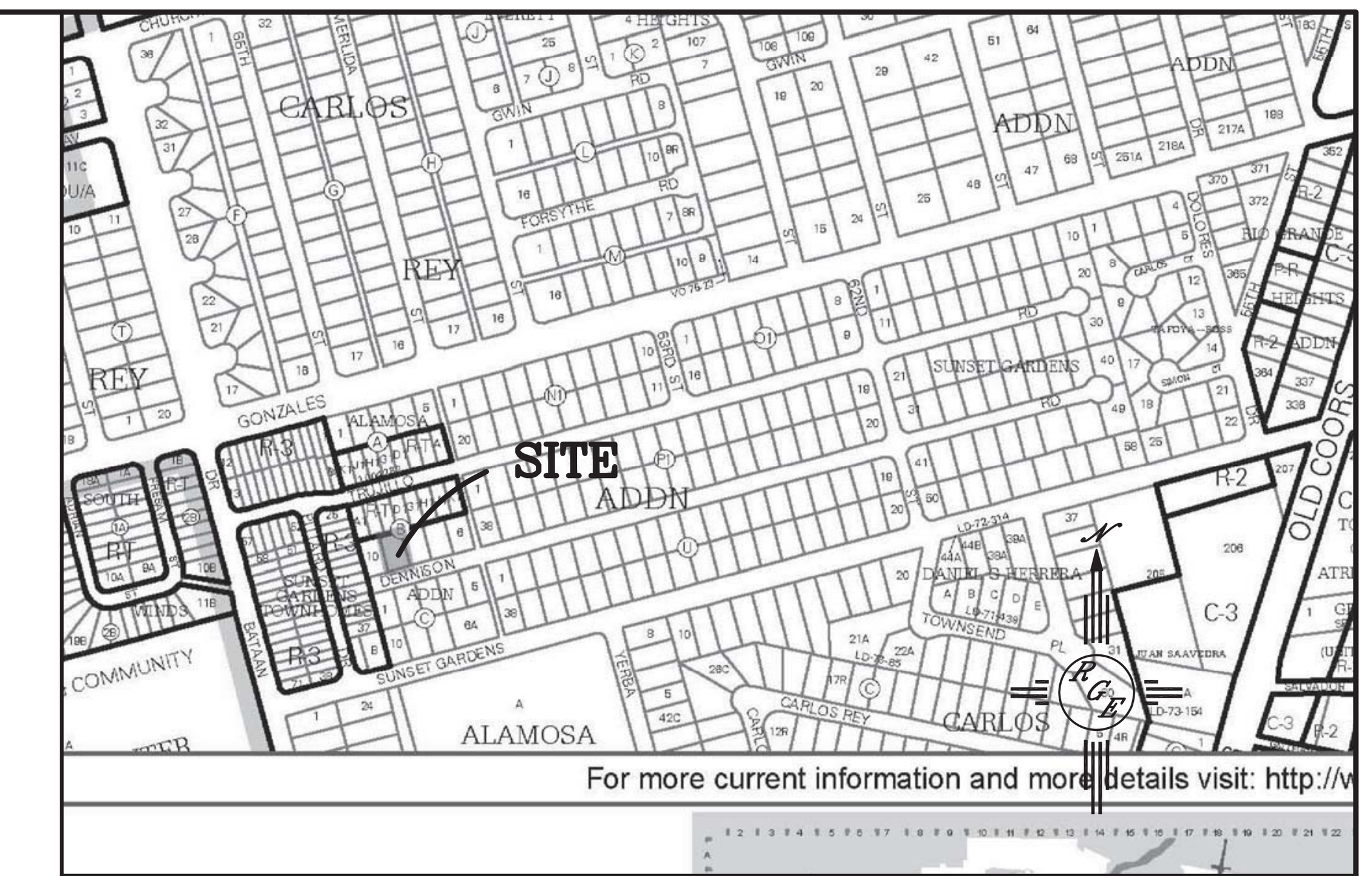
1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
4. REPAIR OF DAMAGED FACILITIES 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.



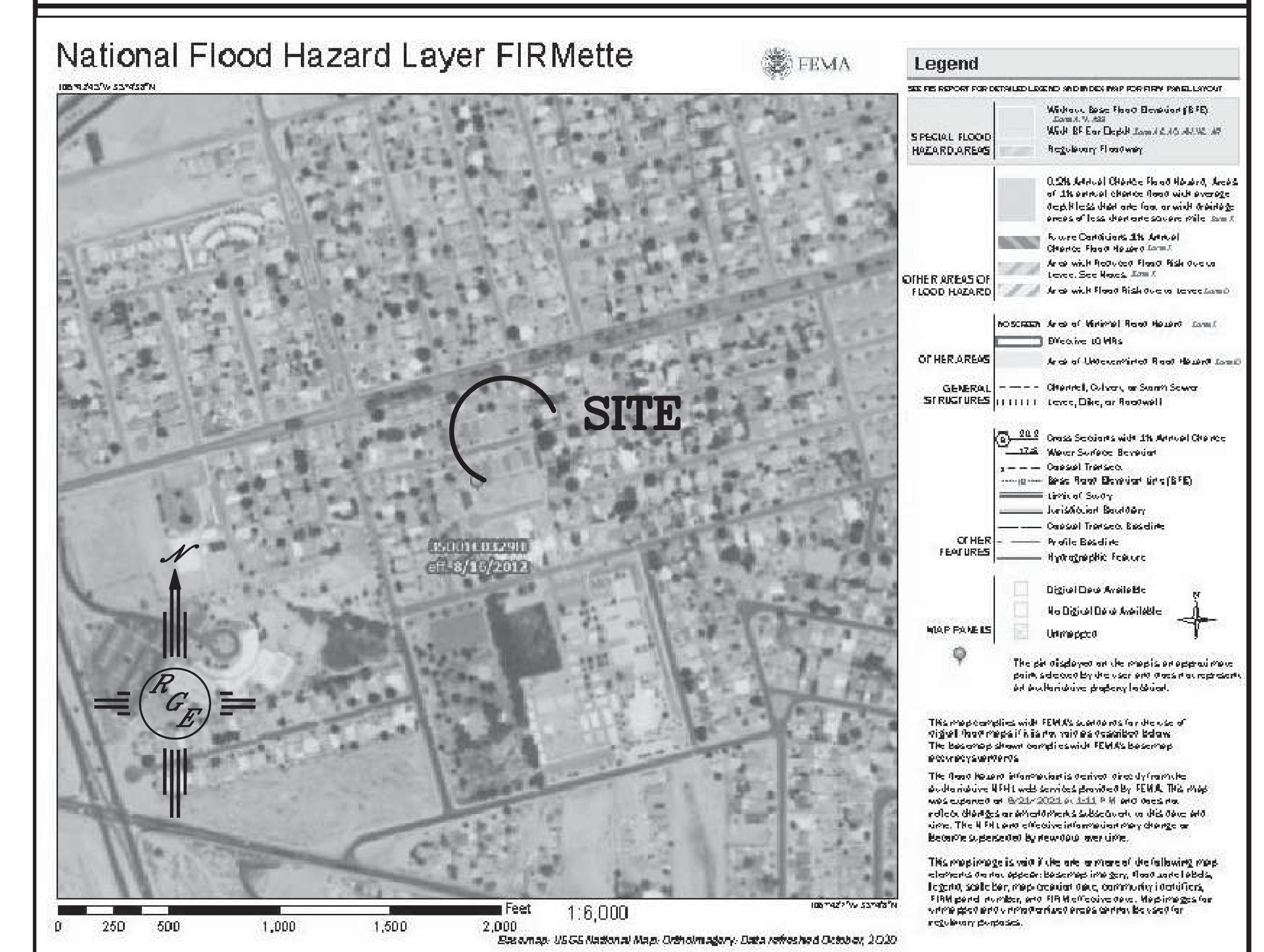
EARTHEN SWALE DETAIL
NTS

City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION
APPROVED
DATE: 07/26/21
BY: [signature]
HydroTrans # K11D068B

THE APPROVAL OF THESE PLANS/REPORT SHALL NOT BE CONSTRUED TO PERMIT VIOLATIONS OF ANY CITY ORDINANCE OR STATE LAW, AND SHALL NOT PREVENT THE CITY OF ALBUQUERQUE FROM REQUIRING CORRECTION OR ERASURE OF ERRORS OR OMISSIONS IN PLANS, SPECIFICATIONS, OR CONSTRUCTION. SUCH APPROVED PLANS SHALL NOT BE CHANGED, MODIFIED OR ALTERED WITHOUT AUTHORIZATION.



VICINITY MAP: K-11-Z



FIRM MAP:

LEGAL DESCRIPTION:

LOT 9 CARLOS REY ADDITION

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.

LEGEND

——XXXX—— (dashed)	EXISTING CONTOUR
——XXXX—— (dashed)	EXISTING INDEX CONTOUR
——XXXX——	PROPOSED CONTOUR
——XXXX—— (bold)	PROPOSED INDEX CONTOUR
▶—	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 RETAINING WALL-DESIGN BY OTHERS

ENGINEER'S SEAL

DAVID SOULE NEW MEXICO 14522 REGISTERED PROFESSIONAL ENGINEER

6/23/21

DAVID SOULE
P.E. #14522

6433 DENNISON

GRADING AND DRAINAGE PLAN

Rio Grande Engineering
1606 CENTRAL AVENUE SE
SUITE 201
ALBUQUERQUE, NM 87106
(505) 872-0999

DRAWN BY WCWJ

DATE 6-22-21

210210062-LAYOUT-6-22-21

SHEET # —

JOB # 21021062