CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



April 26, 2022

David Soule, PE Rio Grande Engineering 1606 Central SE Suite 201 Albuquerque, NM 87106

RE: 6433 Dennison Rd SW

Permanent C.O. - Approved

Engineer's Certification Date: 4/22/22

Engineer's Stamp Date: 6/23/21 Hydrology File: K11D068B

Dear Mr. Soule:

Based on the certification received 4/22/22 and a site visit on 4/25/22, this certification is

approved for Permanent Certificate of Occupancy by Hydrology.

Albuquerque If you have any questions, please contact me at 924-3986 or earmijo@cabq.gov.

Sincerely,

NM 87103

Ernest Armijo, P.E.

www.cabq.gov Principal Engineer, Planning Dept.

Development Review Services



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: 6433 DENNISON	Building Permit #	t:Hyd	drology File #:
DRB#:	EPC#:	Wor	rk Order#:
DRB#: Legal Description: LOT-9, BLOCK B	CARLOS REY	SUBDIVISION	
City Address: 6433 DENNISON			
Applicant:		Conta	et:
Address:			
Phone#:	Fax#:	E-mai	il:
Other Contact: RIO GRANDE ENGI	NEERING	Conta	ct: DAVID SOULE
Address: PO BOX 93924 ALB NN			
Phone#: 505.321.9099)999 E-ma i	l:david@riograndeengineering.com
TYPE OF DEVELOPMENT: PLAT			
Check all that Apply:			
DEPARTMENT: X HYDROLOGY/ DRAINAGE TRAFFIC/ TRANSPORTATION TYPE OF SUBMITTAL: X ENGINEER/ARCHITECT CERTIFICATION PAD CERTIFICATION CONCEPTUAL G & D PLAN ARADING PLAN DRAINAGE REPORT DRAINAGE MASTER PLAN FLOODPLAIN DEVELOPMENT PERMITE ELEVATION CERTIFICATE CLOMR/LOMR TRAFFIC CIRCULATION LAYOUT (TO TRAFFIC IMPACT STUDY (TIS) STREET LIGHT LAYOUT OTHER (SPECIFY) PRE-DESIGN MEETING? IS THIS A RESUBMITTAL?: X Yes DATE SUBMITTED:	ON	PRELIMINARY PLAT SITE PLAN FOR BLUC SITE PLAN FOR BLUC FINAL PLAT APPROV SIA/ RELEASE OF FIN FOUNDATION PERMIT AP GRADING PERMIT AP GRADING PERMIT AP GRADING/ PAD CERT WORK ORDER APPROV CLOMR/LOMR FLOODPLAIN DEVELO OTHER (SPECIFY)	PPROVAL CUPANCY APPROVAL CD APPROVAL G. PERMIT APPROVAL VAL VAL VAL PROVAL PROVAL PROVAL CIFICATION VAL OPMENT PERMIT
DATE SUBMITTED:	*		
COA STAFF:	ELECTRONIC SUBM	ITTAL RECEIVED:	

FEE PAID:_____

Weighted E Method

											100-	Year, 6-hr.		100 yr 10-DA
Basin	Area	Area	Treat	ment A	Tre	atment B	Treat	ment C	Treatr	ment 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
			_					6				90-		

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 Qb= 2.28 Eb= 0.8 Ec= 1.03 Qc= 3.14 Ed= 2.33 Qd = 4.7

Developed Conditions

	REQUIRED	PROVIDED	OFFSITE
HISTORICAL DISCHARGE	361 CF	0	0.2
PROPOSED TO STREET	580 CF	338	0.2
PROPOSED REAR	274	277	

BUILD REAR YARD POND TOP=5018.00_ BOTTOM=5016.75

VOLUME= 277 CU FT

TOTAL VOLUME

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 **POND**

CONSTRUCTED POST

5018.43

5018.20

5018.15

TOP=5017.82_ BOTTOM=5016.82

LOT OUTFALL-5017.82

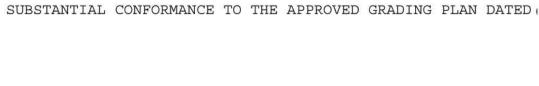
ELEV = 5018.30'

VOLUME= 249 CU FT

BUILD WATER QUALITY POND

5018.60

PEAK FLOW



DRAINAGE BASIN DIVIDE

NEW 20' DRIVEPAD PER COA STD DWG #2425

CONSTRUCTED POST

I, DAVID SOULE HAVE PERSONALLY INPECTED THE SITE. I HEREBY CERTIFY THE PAD HAS BEEN CONSTRUCTED SUCH THAT IT IS IN



7/15/21

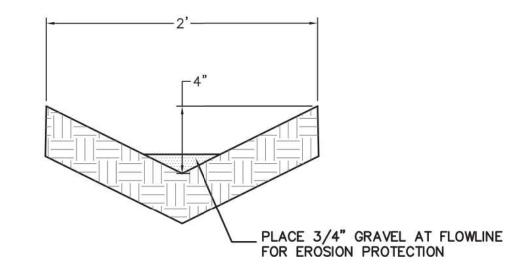
BUILD WATER QUALITY POND

LOT OUTFALL-5017.79

TOP=5017.79 **BOTTOM=**5016.79 VOLUME= 89 CU FT

EROSION CONTROL NOTES:

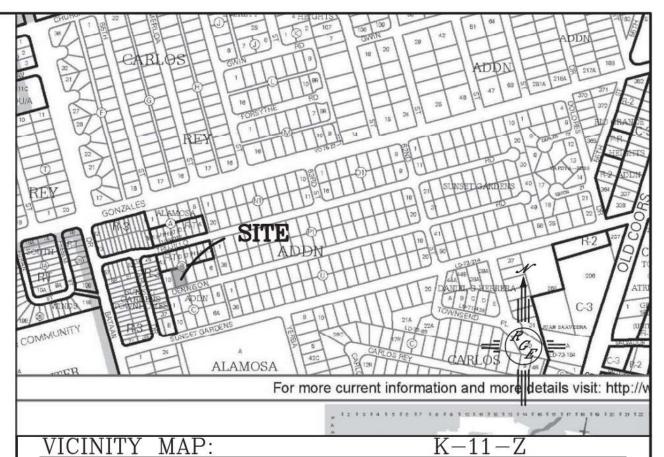
- 1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
- 2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING
- 3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
- 4. REPAIR OF DAMAGED FACILITIES AND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

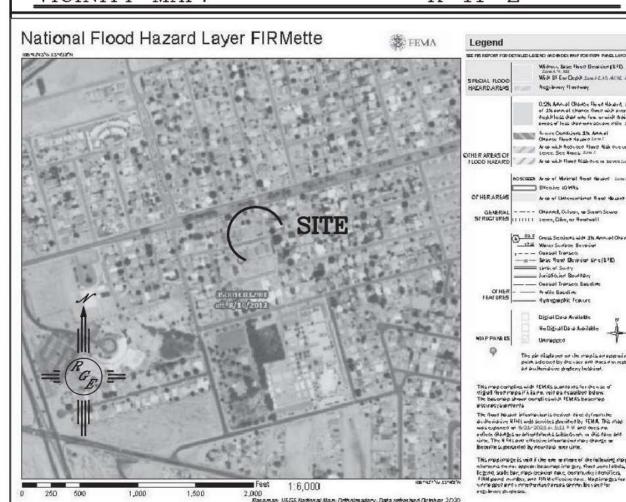


EARTHEN SWALE DETAIL NTS

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 dated 6/23/21. The record information edited on the original design document has performed by me or under my direct supervision and is true and correct to the best of my knowledge and belief. The asbuilt survey was provided by LORENZO DOMINGUEZ #10461 . The certification is submitted in support of a request for PERMANENT CERTIFICATE OF 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. Those relying on this record document are advised to obtain independent verification of its accuracy before using it for any other purpose





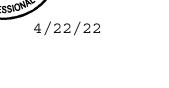


LEGAL DESCRIPTION: LOT 9 CARLOS REY ADDITION

FIRM MAP:

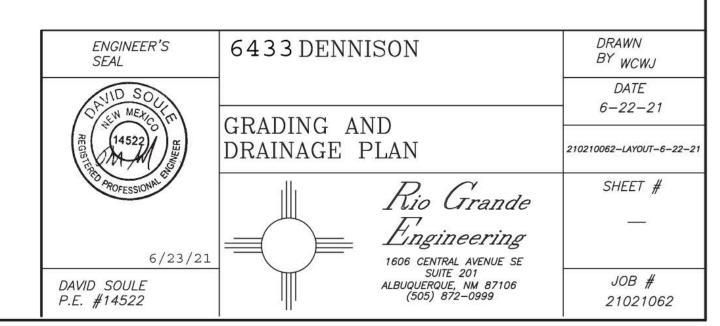
1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE

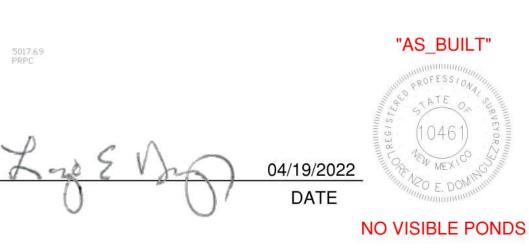
2. ALL SLOPES SHALL BE 3:1 MAX. AND GRAVEL OR NATIVE SEEDING PRIOR TO CO.



LEGEND

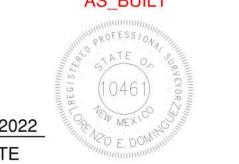
	EXISTING CONTOUR
	EXISTING INDEX CONTOUR
XXXX	PROPOSED CONTOUR
XXXV	PROPOSED INDEX CONTOUR
—	SLOPE TIE
× XXXX	EXISTING SPOT ELEVATION
* XXXX	PROPOSED SPOT ELEVATION
	LOT LINE
	CENTERLINE
	RIGHT-OF-WAY
	PROPOSED 4" PVC SD
	GRAVEL LINED SWALE
==========	EXISTING CURB AND GUTTER
	PROPOSED CMU RETAINING WALL-DESIGN BY OTHERS





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.



SCALE: 1"=10'