

CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director



Mayor Timothy M. Keller

January 27, 2021

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

**Re: 8234 Northridge Ave.
Request for Certificate of Occupancy - Permanent
Grading and Drainage Plan Stamp Date: 4/24/19
Certification dated: 1/5/21
Drainage File: F19D038**

Dear Mr. Soule,

Based on the Certification received 1/6/21 and subsequent site visit on 1/25/21, this certification is approved in support of Permanent Certificate of Occupancy by Hydrology.

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

Sincerely,

Ernest Armijo, P.E.
Principal Engineer, Planning Dept.
Development Review Services

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: 8234 NORTHRIDGE **Building Permit #:** _____ **Hydrology File #:** _____

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

Legal Description: lot 25 block 5 NORTHRIDGE ADDITION unit 4

City Address: 8234 NORTHRIDGE

Applicant: Alfredo Sandoval **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 ☒ RESIDENCE _____ DRB SITE _____ ADMIN SITE

Check all that Apply:

DEPARTMENT:

☒ HYDROLOGY/ DRAINAGE
_____ TRAFFIC/ TRANSPORTATION

TYPE OF SUBMITTAL:

☒ ENGINEER/ARCHITECT CERTIFICATION
_____ 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?: ☒ Yes _____ No

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

_____ 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:** DAVID SOULE

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____

Weighted E Method
north ridge-garage addition

Existing Developed Basins

Basin	Area (sf)	Area (acres)	100-Year, 6-hr.										10-DAY	
			Treatment A %	Treatment A (acres)	Treatment B %	Treatment B (acres)	Treatment C %	Treatment C (acres)	Treatment D %	Treatment D (acres)	Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs	Volume (ac-ft)
EXISTING WORK AREA	4964	0.114	0%	0	45.0%	0.051	51.0%	0.05812	4%	0.005	1.166	0.011	0.36	0.012
PROPOSED WORK ARE	4964	0.114	0%	0	23.0%	0.026	41.0%	0.04672	36%	0.041	1.590	0.015	0.44	0.021
COMPARISON	0	0.000	0%	0	-22.0%	0.000	#####	0	32.0%	0.000			0.08	0.009

Equations:

Weighted E = Ea*As + Eb*Ab + Ec*Ac + Ed*Ad / (Total Area)

Volume = Weighted D * Total Area

Flow = Qa * As + Qb * Ab + Qc * Ac + Qd * Ad

Where for 100-year, 6-hour storm (zone 3)

Ea= 0.66	Qa= 1.87
Eb= 0.92	Qb= 2.6
Ec= 1.29	Qc= 3.45
Ed= 2.36	Qd= 5.02

FIRST FLUSH VOLUME

REQUIRED	50.63 CF
PROVIDED	393 CF

FLOOD CONTROL

REQUIRED	387.109 CF
PROVIDED	393 CF

DRAINAGE NARRATIVE

THIS SITE IS A LOT WITHIN A FULLY DEVELOPED RESIDENTIAL SUBDIVISION. THE SITE IS CURRENTLY DRAINS TO THE WEST AND SOUTH. THE PROPOSED IMPROVEMEN
CONSIST OF AN ADDITION OF ACCESSORY STRUCTURE. THE PROJECT AREA IS LIMITED TO THE BASIN THAT DRAINS TO THE SOUTHWEST CORNER. THE PROPOSED
IMPROVEMENTS INCREASE THE FLOW RATE BY .08 CFS. THE DRAINAGE MANAGEMENT SOLUTION PROPOSED IS TO RETAIN THE INCREASE IN FLOW VOLUME BASED
UPON THE 100-YEAR, 10-DAY EVENT. THE FLOW LEAVING THE SITE ENTERS AN ADJACENT PARKING AREA AND DRAINS TO A PUBLIC STREET.

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 4/24/19. 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 as-
built survey was provided by DAVID ACOST NMPLS #21082 . 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



1/5/21

Northridge Avenue, N.E.

LOT 22, BLOCK 5
NORTHDRIDGE ADDITION UNIT 2
(05/12/1969, D4-30)

LOT 24, BLOCK 5
NORTHDRIDGE ADDITION UNIT 2
(05/12/1969, D4-30)

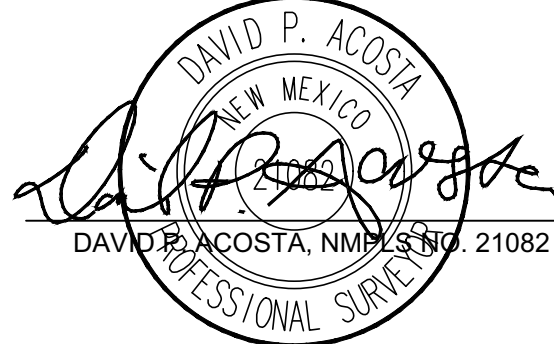
LOT 26, BLOCK 5
NORTHDRIDGE ADDITION UNIT 2
(05/12/1969, D4-30)

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.

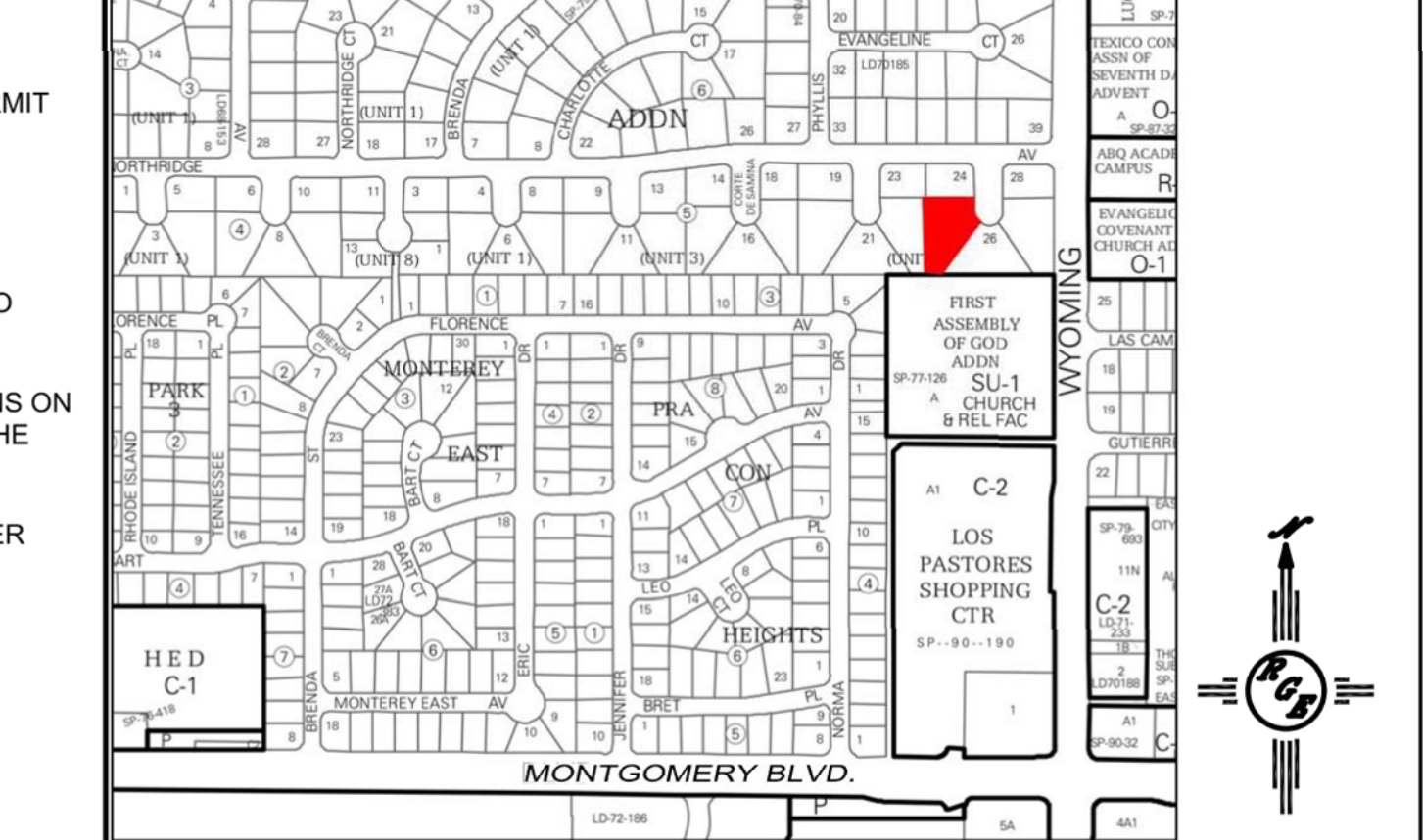
SURVEYOR'S CERTIFICATE:

I, DAVID P ACOSTA, NEW MEXICO PROFESSIONAL SURVEYOR NO. 21082, DO
HEREBY CERTIFY THAT THIS AS-BUILT SURVEY WAS PERFORMED BY ME OR
UNDER MY DIRECT SUPERVISION; MEETS THE MINIMUM STANDARDS FOR
SURVEYING IN NEW MEXICO

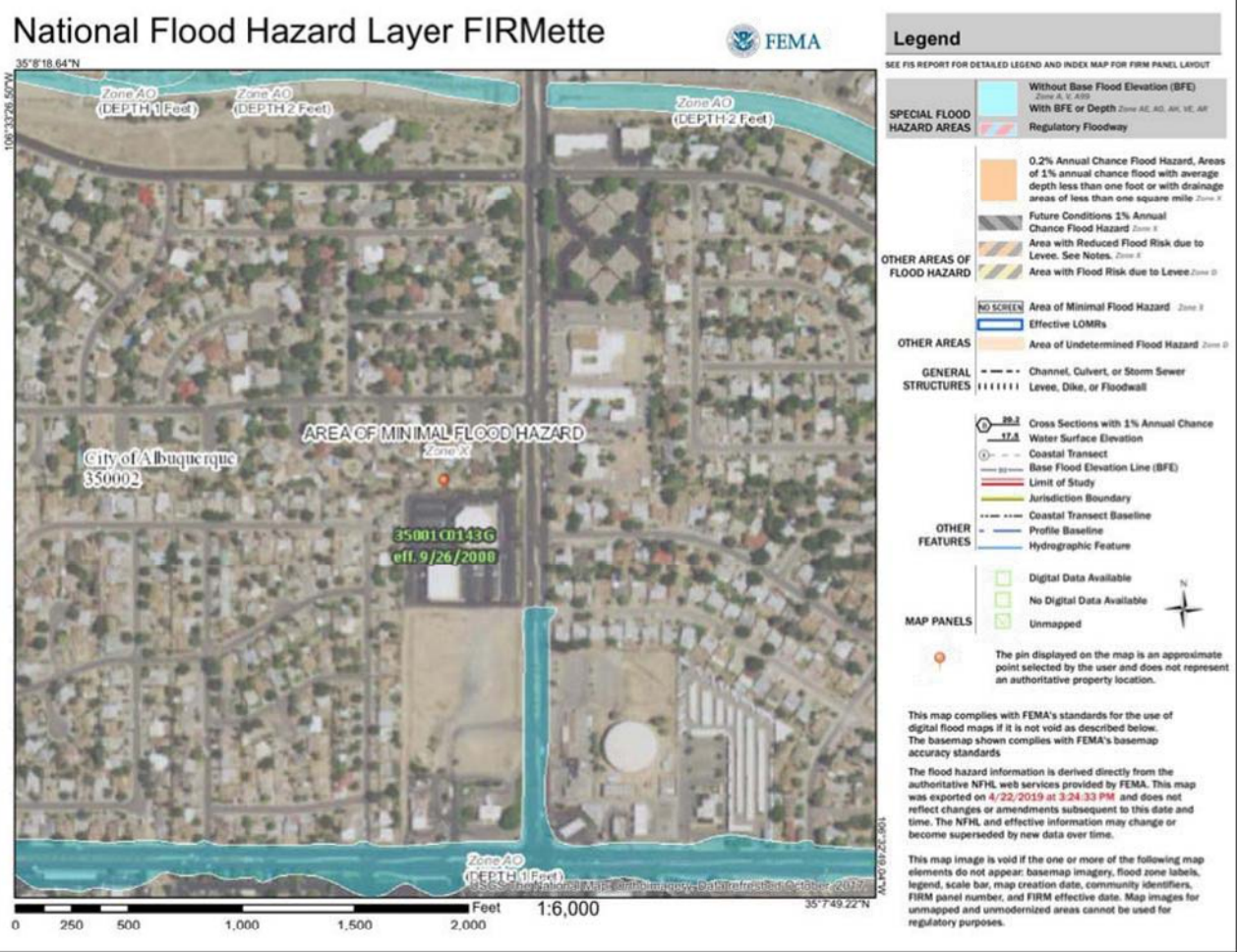


01-04-21

DATE



VICINITY MAP: F-19-Z



FIRM MAP:

LEGAL DESCRIPTION:

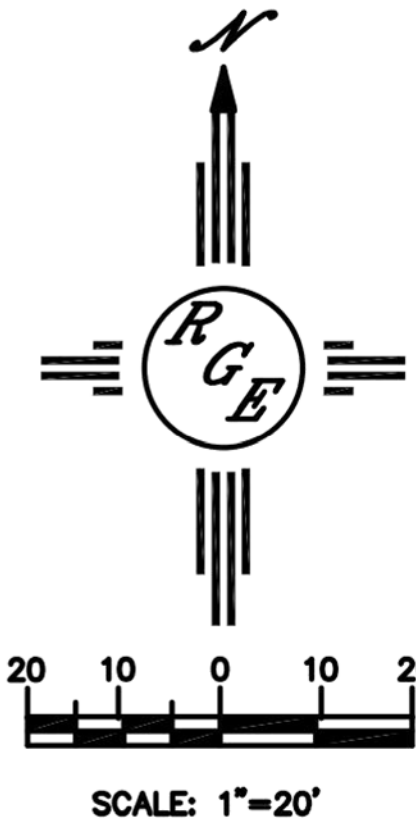
LOT 25, BLOCK 5 NORTHDRIDGE ADDITION UNIT 4
ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

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

---	XXXX	---	EXISTING CONTOUR
---	XXXX	---	EXISTING INDEX CONTOUR
---	XXXX	---	PROPOSED CONTOUR
---	XXXX	---	PROPOSED INDEX CONTOUR
+	XXXX		EXISTING SPOT ELEVATION
●	XXXX		PROPOSED SPOT ELEVATION
---	---	---	BOUNDARY
---	---	---	PROPOSED EARTHEN SWALE
---	---	---	ADJACENT BOUNDARY
---	---	---	EXISTING CURB AND GUTTER
---	---	---	PROPOSED RETAINING WALL



ENGINEER'S SEAL	LOT 25 BLK 5 UN 4 NORTHDRIDGE ADD. 8234 NORTHDRIDGE AVE. N.E.	DRAWN BY DEM
DAVID SOULE NEW MEXICO 14522 REGISTERED PROFESSIONAL ENGINEER	GRADING AND DRAINAGE PLAN	DATE 4-23-19
4/24/19	Rio Grande Engineering 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87108 (505) 872-0989	LOT 25 BLK 5 UN 4 NORTHDRIDGE.DWG
DAVID SOULE P.E. #14522		SHEET # C1
		JOB #