

# CITY OF ALBUQUERQUE

Planning Department  
Alan Varela, Director



Mayor Timothy M. Keller

June 17, 2022

Robert Fierro, P.E.  
Fierro & Company  
6300 Montano Rd. NW  
Albuquerque, NM 87120

**RE: 3707 5<sup>th</sup> St. NW**  
**Grading and Drainage Plans**  
**Engineer's Stamp Date: 06/06/22**  
**Hydrology File: G14D098**

Dear Mr. Fierro:

Based upon the information provided in your submittal received 06/07/2022, the Grading and Drainage Plans are approved for Building Permit and Grading Permit. Since this project is an addition to an existing house, a pad certification is not needed for this project. 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 CERTIFICATE OF OCCUPANCY:**

1. Engineer's Certification, per the DPM Part 6-14 (F): Engineer's Certification Checklist For Non-Subdivision is required.

If you have any questions, please contact me at 924-3995 or [rbrissette@cabq.gov](mailto:rbrissette@cabq.gov).

Sincerely,

*Renée C. Brissette*

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



# City of Albuquerque

Planning Department

Development & Building Services Division

## DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 11/2018)

**Project Title:** \_\_\_\_\_ **Building Permit #:** \_\_\_\_\_ **Hydrology File #:** \_\_\_\_\_

**DRB#:** \_\_\_\_\_ **EPC#:** \_\_\_\_\_ **Work Order#:** \_\_\_\_\_

**Legal Description:** \_\_\_\_\_

**City Address:** \_\_\_\_\_

**Applicant:** \_\_\_\_\_ **Contact:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Phone#:** \_\_\_\_\_ **Fax#:** \_\_\_\_\_ **E-mail:** \_\_\_\_\_

**Owner:** \_\_\_\_\_ **Contact:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Phone#:** \_\_\_\_\_ **Fax#:** \_\_\_\_\_ **E-mail:** \_\_\_\_\_

**TYPE OF SUBMITTAL:** \_\_\_\_\_ PLAT (\_\_\_\_# OF LOTS) \_\_\_\_\_ RESIDENCE \_\_\_\_\_ DRB SITE \_\_\_\_\_ ADMIN SITE

**IS THIS A RESUBMITTAL?:** \_\_\_\_\_ Yes \_\_\_\_\_ No

**DEPARTMENT:** \_\_\_\_\_ TRAFFIC/ TRANSPORTATION \_\_\_\_\_ HYDROLOGY/ DRAINAGE

Check all that Apply:

### TYPE OF SUBMITTAL:

- \_\_\_\_\_ ENGINEER/ARCHITECT CERTIFICATION
- \_\_\_\_\_ PAD CERTIFICATION
- \_\_\_\_\_ CONCEPTUAL G & D PLAN
- \_\_\_\_\_ GRADING PLAN
- \_\_\_\_\_ DRAINAGE MASTER PLAN
- \_\_\_\_\_ DRAINAGE REPORT
- \_\_\_\_\_ FLOODPLAIN DEVELOPMENT PERMIT APPLIC
- \_\_\_\_\_ ELEVATION CERTIFICATE
- \_\_\_\_\_ CLOMR/LOMR
- \_\_\_\_\_ TRAFFIC CIRCULATION LAYOUT (TCL)
- \_\_\_\_\_ TRAFFIC IMPACT STUDY (TIS)
- \_\_\_\_\_ OTHER (SPECIFY) \_\_\_\_\_
- \_\_\_\_\_ PRE-DESIGN MEETING?

### 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:** \_\_\_\_\_

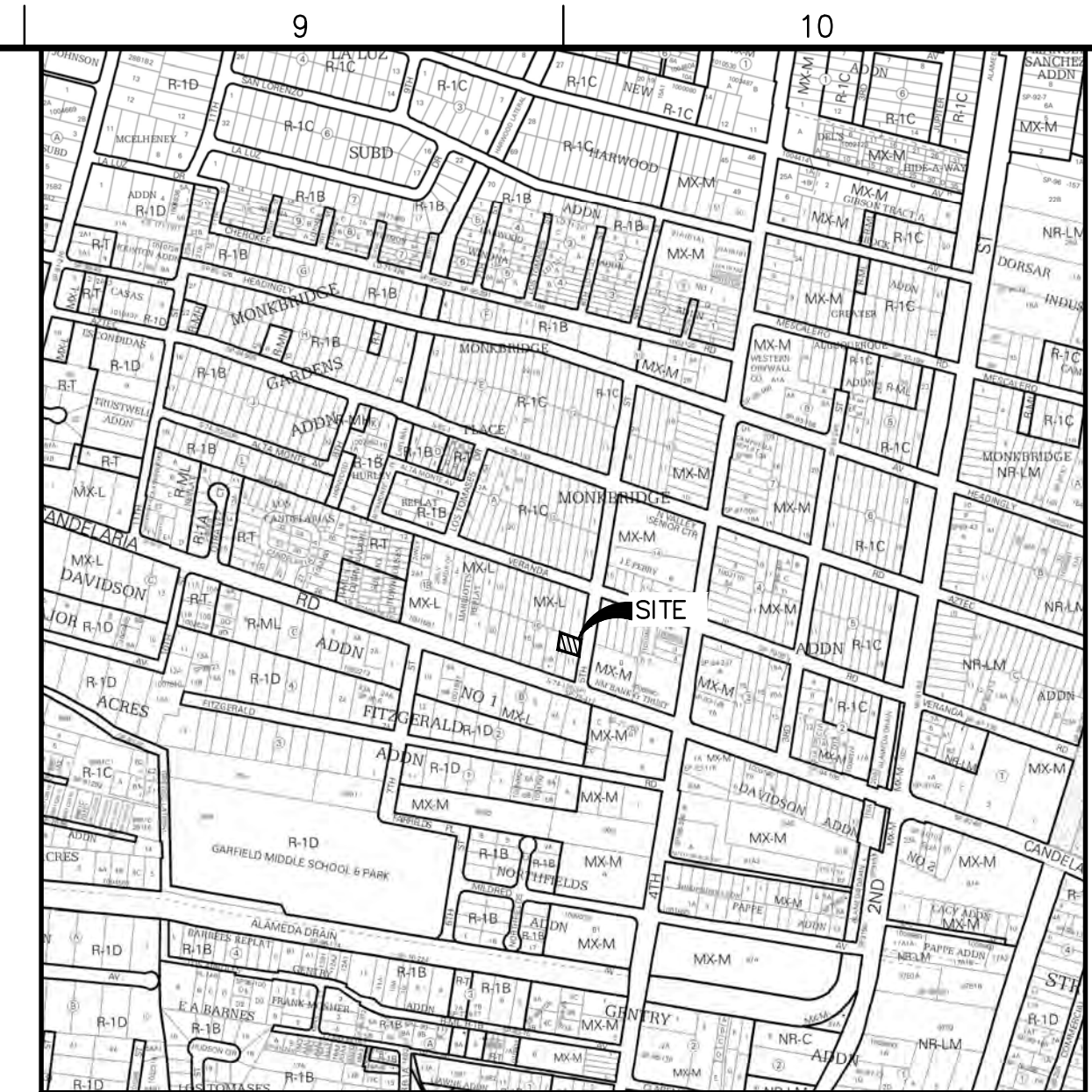
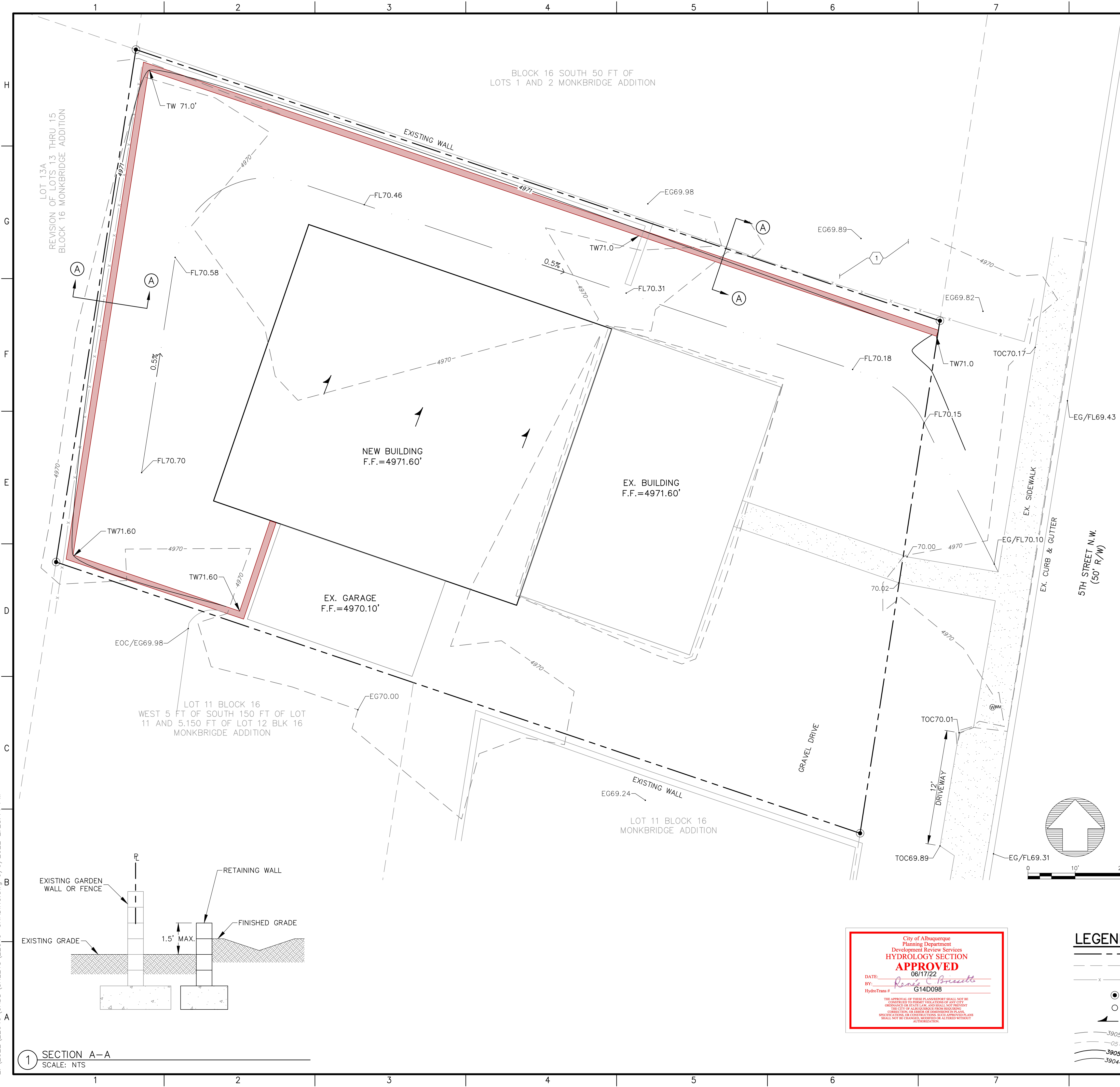
COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: \_\_\_\_\_

FEE PAID: \_\_\_\_\_



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LOCATION MAP  
ZONE ATLAS MAP: G-14-Z

GENERAL GRADING NOTES:

1. THE CONTRACTOR TO VERIFY LOCATION OF ALL UTILITIES SHOWN AND COORDINATE WITH ALL UTILITY OWNERS PRIOR TO ANY EXCAVATION.
2. THE CONTRACTOR SHALL LIMIT DISTURBANCE OF NATIVE VEGETATION TO A MINIMUM.
3. THIS PLAN RECOMMENDS POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES TO PROHIBIT PONDING OF RUNOFF WHICH MAY CAUSE STRUCTURAL SETTLEMENT. FUTURE ALTERATION OF GRADES ADJACENT TO THE PROPOSED STRUCTURES IS NOT RECOMMENDED.
4. PERFORM GRADING AND EXCAVATION WORK IN COMPLIANCE WITH APPLICABLE SPECIFICATIONS, REQUIREMENTS, CODES AND ORDINANCES OF CITY OF ALBUQUERQUE, NEW MEXICO.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF OR OBTAINING EXCESS CUT OR FILL MATERIAL REQUIRED FOR FINAL GRADE.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND COORDINATING WITH NEW MEXICO ONE CALL PRIOR EXCAVATION.
7. CLEAR AND GRUBBING PER NM APWA SECTION 201 SPECIFICATION.
8. SPOT ELEVATIONS ARE TO FINISH GRADE UNLESS NOTED OTHERWISE.
9. THE CONTRACTOR SHALL CONFINE THEIR WORK TO WITHIN THE CONSTRUCTION LIMITS AND/OR PUBLIC RIGHT-OF-WAY TO PRESERVE EXISTING VEGETATION, LANDSCAPING, AND PRIVATE PROPERTY. APPROVAL OF THESE PLANS DOES NOT GIVE OR IMPLY ANY PERMISSION TO TRESPASS OR WORK ON PRIVATE PROPERTY. PERMISSION MUST BE GRANTED IN WRITING BY THE OWNER OF THAT PROPERTY.
10. CONTRACTOR TO CLEAN UP SEDIMENT AND DEBRIS ON THE STREET, WHICH IS CAUSED BY CONSTRUCTION, AT THE END OF EACH WORK DAY. TEMPORARY DIRT RAMPS ARE NOT TO BE LEFT IN STREETS OR NEAR CURB.

PROJECT INFORMATION

**BENCHMARK:**  
CITY OF ALBUQUERQUE SURVEY MONUMENT: ACS BM, 23-G14  
NORTHING: 1499528.400 (NM SPC, CENTRAL ZONE, NAD 1983)  
EASTING: 1521210.130 (NM SPC, CENTRAL ZONE, NAD 1983)  
ELEVATION: 4969.296' (NAVD 1988, U.S. SURVEY FOOT)

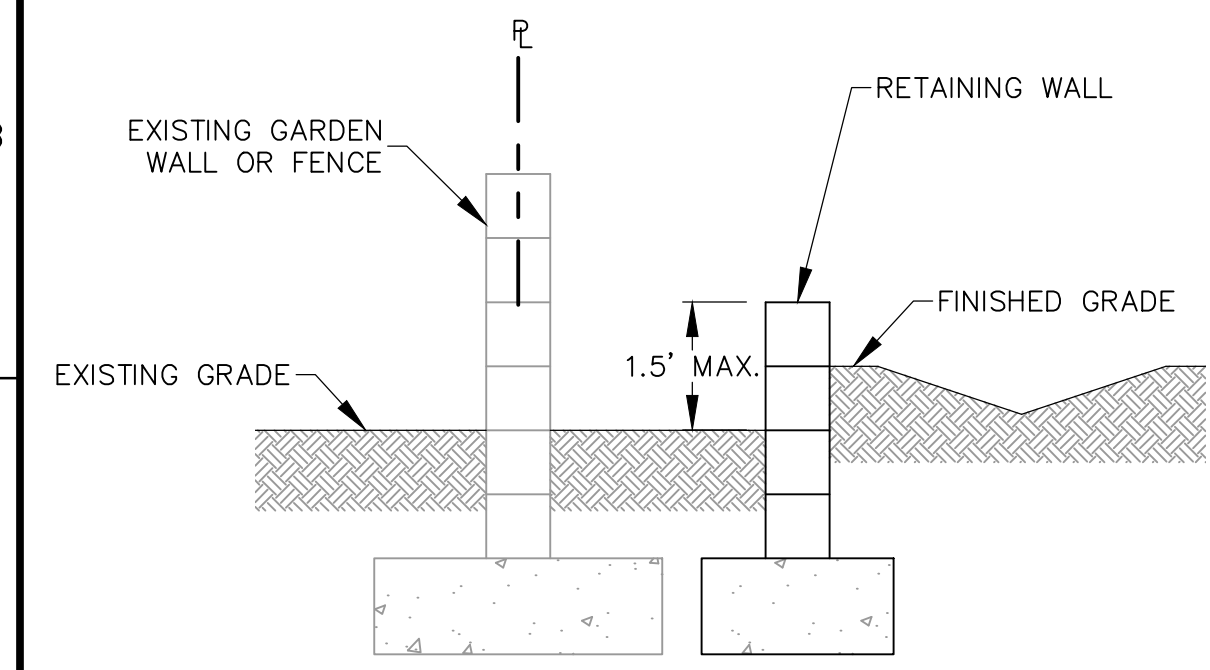
**DESCRIPTION:**  
NORTH 55 FEET OF LOT 11 AND LOT 12, BLOCK 16, MONKBRIDGE ADDITION

**FLOOD NOTE:**  
THIS PROPERTY LIES WITHIN FLOOD ZONE X WHICH IS DEFINED AS AN AREA OF MINIMAL FLOOD HAZARD. AS DETERMINED BY F.E.M.A. AND SHOWN ON THE FLOOD INSURANCE RATE MAP DATED SEPTEMBER 26, 2008, MAP NO. 35001C0332G.

**SURVEYOR INFORMATION:**  
TOPOGRAPHIC SURVEY PERFORMED MAY 2022.

LEGEND

- |       |                                  |            |                    |
|-------|----------------------------------|------------|--------------------|
| ---   | APPARENT PROPERTY BOUNDARY       | x-26.29    | FINISHED GRADE     |
| ---   | APPARENT ADJOINING PROPERTY LINE | x-FL26.29  | FLOW LINE          |
| -x-x- | EXISTING FENCE                   | x-TOC26.29 | TOP OF CONCRETE    |
| ●     | PROPERTY CORNER                  | BLDG.      | BUILDING           |
| ○     | APPARENT PROPERTY CORNER         | ---        | NEW RETAINING WALL |
| ▲     | ROOF FLOW DIRECTION              | ---        | FLOW LINE          |
| ---   | EXISTING MAJOR CONTOUR           |            |                    |
| ---   | EXISTING MINOR CONTOUR           |            |                    |
| ---   | PROPOSED MAJOR CONTOUR           |            |                    |
| ---   | PROPOSED MINOR CONTOUR           |            |                    |



1 SECTION A-A  
SCALE: NTS

**Fierro & Company**  
ENGINEERING | SURVEYING  
3201 4th. STREET NW  
ALBUQUERQUE, NEW MEXICO 87107  
PH (505) 352-8930  
www.fierrocompany.com

CHAVEZ RESIDENCE ADDITION  
3707 5TH STREET NW  
ALBUQUERQUE, NM 87107

PROJECT NAME	PROJECT NO.	BY
	22049	

DESCRIPTION	DATE	REV.

DESIGNED BY:	RJF
DRAWN BY:	JB
CHECKED BY:	RJF
DATE:	JUNE 2022

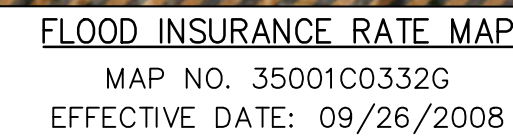
SHEET TITLE

GRADING PLAN

SHEET NO:

C-1





ENGINEER'S SEAL



CHAVEZ RESIDENCE ADDITION  
3707 5TH STREET NW  
ALBUQUERQUE, NM 87107

PROJECT NAME

[illegible]

PROJECT NO:	2204
DESIGNED BY:	RJ
DRAWN BY:	JL
CHECKED BY:	RJ
DATE:	JUNE 202

# DRAINAGE PLAN

SHEET NO:

C-2

## Introduction

The site is located at 3707 5th Street NW and is 0.112 acres. This property is currently developed with a residence of approximately 570 sq.ft. and a garage. A building addition of 1,050 sq.ft. is proposed. The purpose of this Grading & Drainage Plan is to 1) provide hydrologic and hydraulic analysis of the existing and proposed condition and seek approval for grading and building permit.

## Methodology

Hydrologic procedures presented in the Hydrology Section of the DMP, Article 6-2(a), approved June 8, 2020 were followed. Precipitation Zone 2 data was used in the hydrologic computations.

### Existing Condition

The site is relatively flat but does have a positive slope from the back to the front yard with runoff discharging to 5th Street right-of-way. An existing residence, garage, and sidewalk have a total impervious area of 820 sq.ft. The pervious area is from gravel driveway and yard.

### Proposed Condition

A building addition of 1,050 sq.ft. is proposed. The site's drainage pattern will alter due to the proposed building addition preventing the rear yard to discharge to the south side yard; however, the site will still drain to 5th Street right-of-way. Runoff from the rear yard will now outlet to the north side yard. A retaining wall of less than 1.5-feet high is proposed along the west, north, and south boundary lines since the back yard will be raised to create positive drainage to route the flow to the north side yard.

## Conclusion

The proposed building addition will generate increased runoff, but is negligible and will not adversely effect downstream drainage capacities. This drainage report seeks COA Hydrology approval for grading and building permit.

# DRAINAGE REPORT

HYDROLOGY SUMMARY								
BASIN	Total Area	Total Area	Land Treatment (%)				Q <sub>100</sub>	V <sub>100yr-6hr</sub>
	(sq. ft.)	(acres)	A	B	C	D	(cfs)	(ac-ft)
100	4880	0.1120	0.0	65.8	17.4	16.8	0.3	0.010
200	4880	0.1120	0.0	44.3	17.4	38.3	0.4	0.013

## HYDROLOGY SUMMARY (Precipitation Zone 2)

## LEGEND

- 
- - - - - PROPERTY BOUNDARY  
 . . . . . FLOW PATH  
 → ROOF FLOW  
 ← SURFACE DRAINAGE  
 - - - - - UTILITY EASEMENT LINE  
 - - - - - FLOWLINE  
 - - - - -3905- EXISTING MAJOR CONTOUR  
 - - - - -05- EXISTING MINOR CONTOUR  
 - - - - -3905- PROPOSED MAJOR CONTOUR  
 - - - - -3904- PROPOSED MINOR CONTOUR  
 - - - - - PROPOSED BASIN  
 ■ ■ ■ ■ ■ EXISTING BASIN

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