

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

January 16, 2025

Robert Fierro, P.E.
Fierro & Company
3201 4th Street NW, Suite C
Albuquerque, NM 87107

**RE: Balloon Fiesta Park – New Restroom Facility
9201 Balloon Museum Dr NE
Grading & Drainage Plans
Engineer's Stamp Date: 1/13/2025
Hydrology File: B17D001A**

Dear Mr. Fierro:

PO Box 1293

Based upon the information provided in your submittal received 1/14/2025, the Grading & Drainage Plans **are** approved for 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.

Albuquerque

PRIOR TO CERTIFICATE OF OCCUPANCY:

NM 87103

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

www.cabq.gov

As a reminder, if the project total area of disturbance (including the staging area and any work within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater Quality Engineer (Doug Hughes, PE, jhughes@cabq.gov, 505-924-3420) 14 days prior to any earth disturbance.

If you have any questions, please contact me at 505-924-3314 or amontoya@cabq.gov.

Sincerely,

Anthony Montoya, Jr., P.E., CFM
Senior Engineer, Hydrology
Planning Department, Development Review Services

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BASIN MAP

DRAINAGE NARRATIVE

Introduction
The site is located within Albuquerque International Balloon Fiesta Park. It is within the parking lot of Sid Cutter Pilot's Pavilion located at 4900 Balloon Fiesta Parkway NE. The purpose of this Grading & Drainage Plan is to 1) provide hydrologic and hydraulic analysis of the existing and proposed condition, 2) satisfy allowable stormwater discharge rates, and 4) seek approval for 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 existing parking lot is relatively flat with slopes between 1%-2%. Runoff from the site drains West to several existing inlets as shown on the Grading Plan. There is a 2H:1V slope along the South and East side of the parking lot.

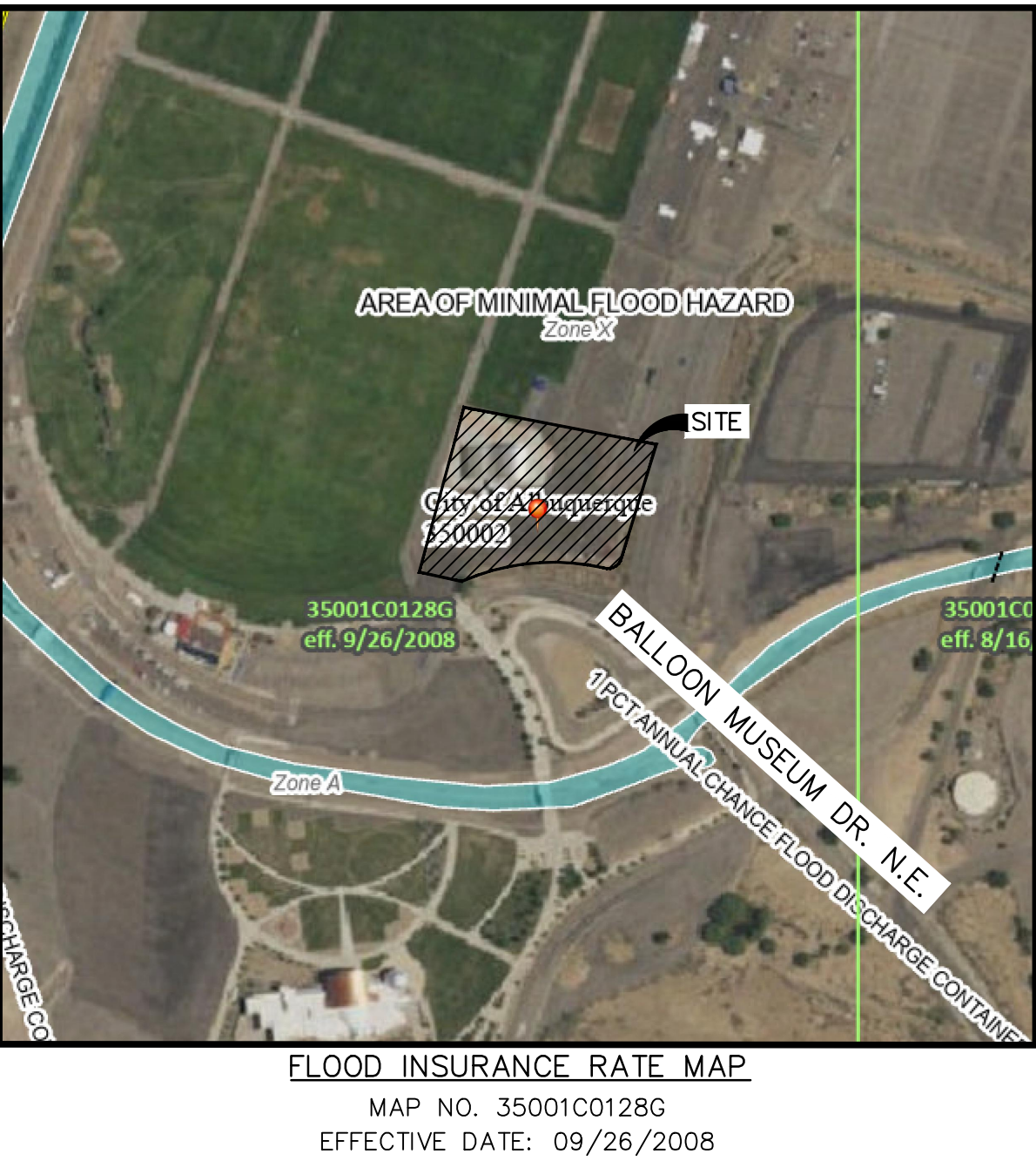
Proposed Condition
A new restroom facility of approximately 5,000 sq.ft. is proposed. The proposed facility is located within an existing paved parking lot as shown on the proposed Basin Map. The drainage pattern will remain the same with runoff from the developed area continuing to discharge to one of several inlets within the parking lot. There is not an increase in impervious area, since the proposed building will replace a portion of an asphalt parking lot. Therefore, there is not an increase in runoff. The proposed site cannot accommodate storing the storm water quality requirement due to the following reason(s):
1) The site is a redevelopment of an existing paved parking lot. The existing parking lot has limited parking spaces and cannot have any more parking spaces eliminated to incorporate first flush BMPs.

Conclusion
The proposed development does not change the existing drainage pattern, peak discharge, nor runoff volume. Therefore, this development does not adversely impact downstream drainage. This drainage report seeks COA Hydrology approval for building permit.

STORMWATER QUALITY VOLUME (WAIVER):
GIVEN:
 $Area_p = 15,048 \text{ sq.ft.}$
Site is a redevelopment as stated in the existing conditions.

SOLUTION:
 $SWQV = \frac{1}{2}(R_p * Area_p) = \frac{1}{2}[0.26" * 15,048 \text{ sq.ft.}] = 326 \text{ cu.ft.}$

CONCLUSION: A waiver application is being submitted to allow the calculated Storm Water Quality Volume (first flush volume) generated from the redevelopment to continue draining to the existing inlets without introducing Best Management Practice (BMP). BMPs are not incorporated since the parking lot has limited area and cannot be reduced further to accommodate BMPs storage.



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ALBUQUERQUE INTERNATIONAL
BALLOON FIESTA PARK
NEW RESTROOM FACILITY
4900 BALLOON FIESTA PKWY NE
ALBUQUERQUE, NM

PROJECT NAME

REV.	DATE	DESCRIPTION	BY

PROJECT NO: 24030
DESIGNED BY: R/JF
DRAWN BY: JB
CHECKED BY: R/JF
DATE: AUGUST 2024
SHEET TITLE

DRAINAGE
PLAN

SHEET NO:

D-1

HYDROLOGY SUMMARY							
EXISTING AND PROPOSED CONDITIONS							
BASIN	Total Area (acres)	Land Treatment (%)				Weighted E	Q _{100yr-6hr} (cfs)
		A	B	C	D		
100	0.494	0.0	0.0	30.0	70.0	1.940	2.0
							0.088
							3852

HYDROLOGY SUMMARY

S.W.Q.V. CALCULATIONS

CITY OF ALBUQUERQUE
PLANNING DEPARTMENT
HYDROLOGY DEVELOPMENT SECTION

**WAIVER APPLICATION FROM STORMWATER
QUALITY VOLUME MANAGEMENT ON-SITE**

GENERAL INFORMATION

APPLICANT: _____ DATE: _____

DEVELOPMENT: _____

LOCATION: _____

STORMWATER QUALITY POND VOLUME

Per the DPM Article 6-12 - Stormwater Quality and Low-Impact Development, the calculated sizing for required Stormwater Quality Pond volume is equal to the impervious area draining to the BMP multiplied by 0.42 inches for new development sites and by 0.26 inches for redevelopment sites.

The required volume is _____ cubic feet

The provided volume is _____ cubic feet

The deficient volume is _____ cubic feet

WAIVER JUSTIFICATION

Per the DPM Article 6-12(C), private off-site mitigation and payment-in-lieu may only be considered if management on-site is waived in accordance with the following criteria and procedures.

1. Management on-site shall be waived by the City Engineer if the following conditions are met:

- a. Stormwater quality can be effectively controlled through private off-site mitigation or through an arrangement (approved by the City) to use a cooperator's existing regional stormwater management infrastructure or facilities that are available to control stormwater quality.
 - b. Any of the following conditions apply:
 - i. The lot is too small to accommodate management on site while also accommodating the full plan of development.
 - ii. The soil is not stable as demonstrated by a geotechnical report certified by a professional engineer licensed in the State of New Mexico.
 - iii. The site use is inconsistent with the capture and reuse of stormwater.
 - iv. Other physical conditions exist where compliance with on-site stormwater quality control leaves insufficient area.
 - v. Public or private off-site facilities provide an opportunity to effectively accomplish the mitigation requirements of the Drainage Ordinance (Part 14-5-2 ROA 1994) as demonstrated on as-built construction drawings and an approved drainage report.
 - vi. The developer constructs a project to replenish regional groundwater supplies at an off-site location.
 - vii. A waiver to State water law or acquisition of water rights would be required in order to implement management on site.
2. The basis for requesting payment-in-lieu or private off-site mitigation is to be clearly demonstrated on the drainage plan.

This project's justification: _____

Professional Engineer or Architect

PAYMENT-IN-LIEU

Per the DPM Article 6-12(C)(1), the amount of payment-in-lieu is deficient volume (cubic feet) times \$6 per cubic feet for detached single-family residential projects or \$8 per cubic feet for all other projects.

AMOUNT OF PAYMENT-IN-LIEU = \$ _____

THIS SECTION IS FOR CITY USE ONLY

☒ Waiver is approved. The amount of payment-in-lieu from above must be paid prior to Certificate of Occupancy.

☐ Waiver is DENIED.



City of Albuquerque
Hydrology Section