

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

December 16, 2025

David Aube
Studio SW Architects
2101 Mountain Rd NW
Albuquerque, NM 87104

**RE: Albuquerque Collegiate Charter School
9001 Sunset Gardens Rd SW
Grading and Drainage Plan
Engineer's Stamp Date: 11/13/2025
Hydrology File: L09D032
Case # HYDR-2025-00420**

PO Box 1293

Dear Mr. Aube:

Albuquerque

Based upon the information provided in your submittal received 11/24/2025, the Grading & Drainage Plan is approved for Grading Permit, Building Permit, and SO19 Permit. Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter.

NM 87103

PRIOR TO CERTIFICATE OF OCCUPANCY:

www.cabq.gov

1. Engineer's Certification, per the DPM Part 6-14 (F): *Engineer's Certification Checklist For Non-Subdivision* is required.
2. Please provide the Drainage Covenant with Exhibit A for the stormwater quality ponds per Article 6-15(C) of the DPM prior to Permanent Release of Occupancy. Please submit the original copies along with the **\$ 25.00** recording fee check made payable to Bernalillo County to the Hydrology Section of Development Review Services on the Ground floor of Plaza de Sol. Electronic submission in ABQ-PLAN is also required.

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.

CITY OF ALBUQUERQUE

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Mayor Timothy M. Keller

Sincerely,

A handwritten signature in black ink that reads "Anthony Montoya, Jr." in a cursive style.

Anthony Montoya, Jr., P.E., C.F.M.
Senior Engineer, Hydrology
Planning Department, Development Review Services

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

DATE: 12/16/2025
BY: *Chris M...*
HydroTans # L09D032
THE APPROVAL OF THESE PLANS/REPORTS SHALL NOT BE CONSIDERED TO PERMIT VIOLATIONS OF ANY CITY ORDINANCE OR STATE LAW, AND SHALL NOT PREVENT THE CITY OF ALBUQUERQUE FROM REQUESTING CORRECTIONS FOR ERRORS OR DIMENSIONS IN PLANS, SPECIFICATIONS, OR CONSTRUCTION DOCUMENTS. SUCH APPROVAL PLANS/REPORTS SHALL NOT BE CHANGED, MODIFIED OR ALTERED WITHOUT AUTHORIZATION.
THE APPROVAL OF THESE PLANS/REPORTS SHALL EXPIRE THREE (3) YEARS AFTER THE APPROVAL DATE IF NO BUILDING PERMIT HAS BEEN FILED ON THE DEVELOPMENT.



II. PURPOSE AND SCOPE

THE PURPOSE OF THIS DRAINAGE PLAN IS TO PRESENT THE EXISTING AND PROPOSED DRAINAGE CONDITIONS FOR THE PROPOSED ALBUQUERQUE COLLEGIATE CHARTER SCHOOL. THE SITE IS LOCATED AT THE NORTH WEST CORNER OF SUNSET GARDENS SW AND 90TH STREET, SW, IN SOUTHWEST ALBUQUERQUE. THE ZONE ATLAS PAGE FOR THE SITE IS L-09-Z.

III. SITE DESCRIPTION AND HISTORY

THE PROJECT SITE IS LOCATED ON THE NORTHWEST CORNER OF SUNSET GARDENS AND 90TH STREET SW. THE SITE IS CURRENTLY UNDEVELOPED WITH PARTIALLY DEVELOPED STREETS TO THE EAST AND SOUTH. PARCELS TO THE NORTH AND WEST ARE DEVELOPED.

IV. COMPUTATIONAL PROCEDURES

HYDROLOGIC ANALYSIS WAS PERFORMED UTILIZING THE DESIGN CRITERIA BASED ON CHAPTER 6, HYDROLOGY, OF THE DEVELOPMENT PROCESS MANUAL RELEASED 2020. TABLES WITHIN CHAPTER 6, WERE USED TO AID IN THE STUDY OF THE SITE HYDROLOGY.

V. PRECIPITATION

THE STORM EVENT USED FOR THE FOLLOWING CALCULATIONS IS THE 100YR-24HR STORM. THE PROJECT SITE IS LOCATED IN ZONE 1 (WEST OF RIO GRANDE).

VI. EXISTING DRAINAGE CONDITIONS

THE SITE IS CURRENTLY UNDEVELOPED GENERALLY DRAINS FROM THE WEST TO THE EAST. THE PARCELS TO THE NORTH AND WEST ARE FULLY DEVELOPED. NO OFF-SITE FLOW WERE IDENTIFIED DURING THE SITE VISIT.

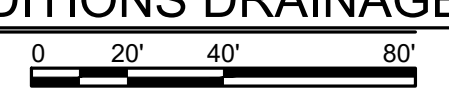
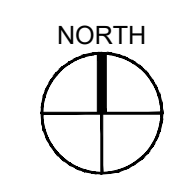


A4 FEMA FIRMETTE
NOT TO SCALE

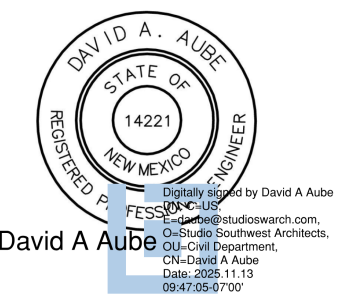


A5 ZONE ATLAS PAGE L-09-Z
NOT TO SCALE

A1 EXISTING CONDITIONS DRAINAGE PLAN
1" = 40'-0"



ARCHITECT/ENGINEER



ALBUQUERQUE COLLEGIATE
CHARTER SCHOOL
SUNSET GARDENS AND 90TH
ALBUQUERQUE, NM

PERMIT DRAWINGS

REVISION DATE

DATE 11-24-25

PROJECT NO 2424

EXISTING
CONDITION
DRAINAGE
PLAN

SHEET NO.

CD-1

VI. PROPOSED DRAINAGE CONDITIONS

THE PURPOSE OF THIS CONCEPTUAL GRADING AND DRAINAGE PLAN IS TO SHOW THE FULLY DEVELOPED SITE WILL HAVE SUFFICIENT PONDING TO RESTRICT FLOW TO BELOW HISTORIC RATES AS WELL AS TO PROVIDE THE NECESSARY WATER QUALITY VOLUME.

THE SITE GENERALLY DRAINS FROM WEST TO EAST. AS SERIES OF DRAINAGE PONDS WILL BE CONSTRUCTED ALONG THE SOUTHERN AND EASTER BOUNDARIES. EACH POND WILL HAVE A MAXIMUM DEPTH OR 18" DEEP.

OVERALL VOLUME AVAILABLE IN PONDS A-E IS 24,207 CUBIC FEET.

WITH THIS PONDING VOLUME THE PEAK FLOW RATE WILL BE REDUCED FROM THE INCOMING RATE OF 27.57CFS DOWN TO 13.78CFS. DISCHARGE FROM THE PONDS WILL FLOW OUT INTO THE PUBLIC RIGHT OF WAY, FOLLOWING THE HISTORIC DRAINAGE PATHS.

VII. CONCLUSIONS

THIS PLAN IS SHOWING THE FULL BUILDOUT FOR THE CAMPUS. PONDS HAVE BEEN CREATED TO CONTAIN THE FULL WATER QUALITY VOLUME OF 6,458CF. PEAK FLOW RATE WILL BE REDUCED FROM 17.34CFS TO 13.78CFS AFTER THE WATER IS ROUTED THROUGH THE STORM WATER MANAGEMENT PONDS.

WATER QUALITY VOLUMES WILL BE FULLY RETAINED IN THE PONDS.

Drainage Summary

Project: Albuquerque Collegiate Charter School
 Project Number: 24x ACCS
 Date: 08/15/24
 By: DAA

Site Location: 1 Per COA DPM Chapter 6
 Existing summary

Basin Name	Area (sf)	Ex Basin 1
Basin Pro 1	349750.5	
Area (acres)	8.03	
%A Land treatment	0	
%B Land treatment	100	
%C Land treatment	0	
%D Land treatment	0	
Soil Treatment (acres)		
Area "A"	0.00	
Area "B"	8.03	
Area "C"	0.00	
Area "D"	0.00	
Excess Runoff (acre-feet)		
100yr. 6hr.	0.4884	acre-ft.
10yr. 6hr.	0.1740	acre-ft.
2yr. 6hr.	0.0667	acre-ft.
100yr. 24hr.	0.4884	acre-ft.
Peak Discharge (cfs)		
100yr.	17.34	cfs
10yr.	6.50	cfs
2yr.	0.16	cfs

Proposed summary	Basin Pro 1	Basin Pro 2	Basin Pro 3	349750.5
Basin Name	Basin Pro 1	Basin Pro 2	Basin Pro 3	349750.5
Area (sf)	139074.7	97054.9	116521.2	349750.5
Area (acres)	3.124	2.228	2.677	
%A Land treatment	30	20	20	
%B Land treatment	45	80	80	
%C Land treatment	25	80	80	
%D Land treatment				
Soil Treatment (acres)				
Area "A"	0.00	0.00	0.00	
Area "B"	0.94	0.45	0.54	
Area "C"	1.41	0.00	0.00	
Area "D"	0.78	1.78	2.14	
Excess Runoff (acre-feet)				
100yr. 6hr.	0.3141	0.3598	0.4324	acre-ft.
10yr. 6hr.	0.1637	0.2221	0.2668	acre-ft.
2yr. 6hr.	0.0759	0.1370	0.1647	acre-ft.
100yr. 24hr.	0.3453	0.4311	0.5180	acre-ft.
100yr. 10day	0.4287	0.6168	0.7412	acre-ft.
Peak Discharge (cfs)				
100yr.	9.28	8.31	8.98	cfs
10yr.	4.82	4.94	5.94	cfs
2yr.	1.94	2.79	3.35	cfs
Water Quality Ponding Volume (cf)	962.9	2199.9	2643.4	cf
Water Quality Acre Feet	0.0221	0.0505	0.0607	acre-ft.

Private Drainage Facilities within City Right-of-Way Notice to Contractor (Special Order 19 ~ "SO-19")

- Build sidewalk culvert per COA STD DWG 2236.
- Contact Storm Maintenance at (505) 857-8033 to schedule a meeting prior to forming.
- An excavation permit will be required before beginning any work within City Right-Of-Way.
- All work on this project shall be performed in accordance with applicable federal, state and local laws, rules and regulations concerning construction safety and health.
- Two working days prior to any excavation, the contractor must contact **New Mexico One Call, dial "811"** (or (505) 260-1990) for the location of existing utilities.
- Prior to construction, the contractor shall excavate and verify the locations of all obstructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.
- Backfill compaction shall be according to traffic/street use.
- Maintenance of the facility shall be the responsibility of the owner of the property being served.
- Work on arterial streets may be required on a 24-hour basis.
- Contractor must contact Storm Maintenance at (505) 857-8033 to schedule a construction inspection. For excavating and barricading inspections, contact Construction Coordination at (505) 924-3416.

City of Albuquerque
 Planning Department
 Development Review Services
HYDROLOGY SECTION
APPROVED

DATE: 12/16/2025
 BY: *Quinn Allen*

HydroTrans #: L09D032

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Pond Routing and Volumes	Pond A	Pond B	Pond C	Pond D	Pond E
Incoming Flow Rate	Qin	Total Basin Flow rate = 9.98			
Allowable Discharge Rate	Qout	3.99	2.00	3.99	8.81
Hydrology Zone		2.31	1.16	2.31	4.00
Area Total	Af	1	1	1	1
Area Type A	Aa	0	0	0	0
Area Type B	Ab	20	20	20	20
Area Type C	Ac	0	0	0	0
Area Type D Impervious	Ad	80	80	80	80
Excess runoff rates	A	0.55	0.55	0.55	0.55
	B	0.73	0.73	0.73	0.73
	C	0.95	0.95	0.95	0.95
	D	2.24	2.24	2.24	2.24
Weighted E (Excess Runoff)		1.94	1.94	1.94	1.94
Time of Concentration		0.2	0.2	0.2	0.2
Time to Peak		0.207	0.207	0.207	0.207
$t_{0.77Tc} = (1.48 \cdot Ad/Af) \cdot 12$		0.892	0.892	0.892	0.892
Time of Base		0.200	0.200	0.200	0.200
$t_{2.107E} = 2.107 \cdot E \cdot Af / Q_p \cdot (25 \cdot Ad/Af)$		0.407	0.407	0.407	0.407
Duration of Peak		0.120	0.120	0.120	0.094
Time for end of peak		0.611	0.611	0.611	0.640
Time when storage begins		0.531	0.195	0.531	1.909
Time incoming is less than discharge		1929	709	1929	6931
Volume Required during storm	acre-inch	4142	900	4947	7449
Volume Required during storm	cf				
Volume Stored in Pond during storm	cf				



MATERIAL LEGEND

- ASPHALT PAVEMENT
- HEAVY DUTY CONCRETE
- CONCRETE SIDEWALK
- RIPRAP EROSION PROTECTION
- LANDSCAPING AREA

A1 DEVELOPED CONDITIONS DRAINAGE PLAN
 1" = 40'-0"
 0 20' 40' 80'

