

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

October 17, 2024

David Soule, P.E.
Rio Grande Engineering
P.O. Box 93924
Albuquerque, NM 87199

RE: 321 Columbia Ave. SE
Grading and Drainage Plan
Engineer's Stamp Date: 10/08/2024
Hydrology File: K16D096

Dear Mr. Soule:

Based upon the information provided in your submittal received 10/08/2024, the Grading & Drainage Plan is approved for Building Permit and Grading Permit. Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter.

PO Box 1293

PRIOR TO CERTIFICATE OF OCCUPANCY:

Albuquerque

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

NM 87103

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.

www.cabq.gov

If you have any questions, please contact me at 505-924-3362 or richardmartinez@cabq.gov.

Sincerely,

Richard Martinez, P.E.
Senior Engineer, Hydrology
Planning Department

Weighted E Method											
		100-year, 6-hr						100 yr 24-Hour			
Basin	Area (a)	Area (b)	Treatment A % (acres)	Treatment B % (acres)	Treatment C % (acres)	Treatment D % (acres)	Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs	Volume (ac-ft)	
existing	7116.00	0.163	0%	0	21%	0.034	51%	0.063	28%	0.046	0.53
PROPOSED	7116.00	0.163	0%	0	16%	0.026	41%	0.067	43%	0.070	0.57

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

First flush requirement

87 cubic feet

Where for 100-year, 6-hour storm(zone2)

Ea= 0.62	Qa= 1.71
Eb= 0.8	Qb= 2.36
Ec= 1.03	Qc= 3.05
Ed= 2.33	Qd= 4.34

Developed Conditions	TOTAL VOLUME
HISTORICAL DISCHARGE	931 CF
PROPOSED GENERATION	1124 CF
VOLUME INCREASE	184 CF
PROPOSED PONDING	195 CF

This site is a redevelopment of a previously developed lot. The existing house is to remain and an accessory unit is being added. There is no master drainage plan for this area, all lots currently free discharge. The drainage solution is to retain the increase in flow generated by the redevelopment based upon the 24-hour volumes. The ponds will overflow to the adjacent streets in accordance with existing patterns. The first flush volume is retained on site.

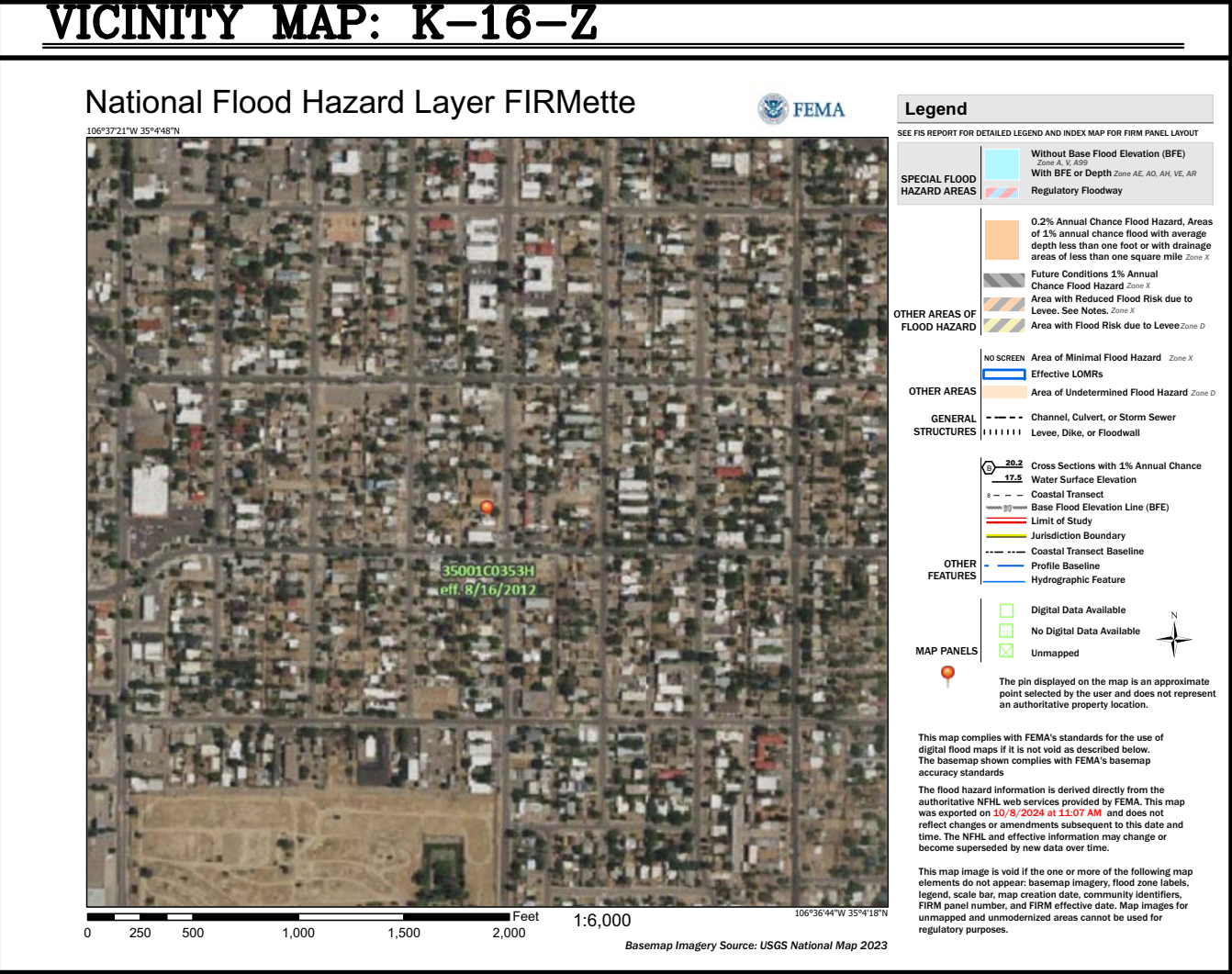
EROSION CONTROL NOTES:

- CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
- REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.

City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION
APPROVED
DATE: 10/17/2024
BY:
HydroTrans # K16D096

THE APPROVAL OF THESE PLANS/REPORT SHALL NOT BE
CONSIDERED TO BE A GUARANTEE OF THE ACCURACY OF ANY CITY
OR STATE LAW, AND SHALL NOT PREVENT
THE CITY OF ALBUQUERQUE FROM REQUIRING
CORRECTION, OR AMENDMENT, OR MODIFICATION OF PLANS,
SPECIFICATIONS, OR CONSTRUCTIONS, SUCH APPROVED PLANS
SHALL NOT BE CHANGED, MODIFIED, OR ALTERED WITHOUT
AUTHORIZATION.

APPROVAL OF GRADING & DRAINAGE PLAN(S) SHALL EXPIRE
TWO (2) YEARS AFTER THE APPROVAL DATE BY THE CITY IF NO
BUILDING PERMIT HAS BEEN PULLED ON THE DEVELOPMENT.



FIRM MAP:

LEGAL DESCRIPTION:
LOT 2, BLOCK 19 UNIVERSITY HEIGHTS ADDITION
CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

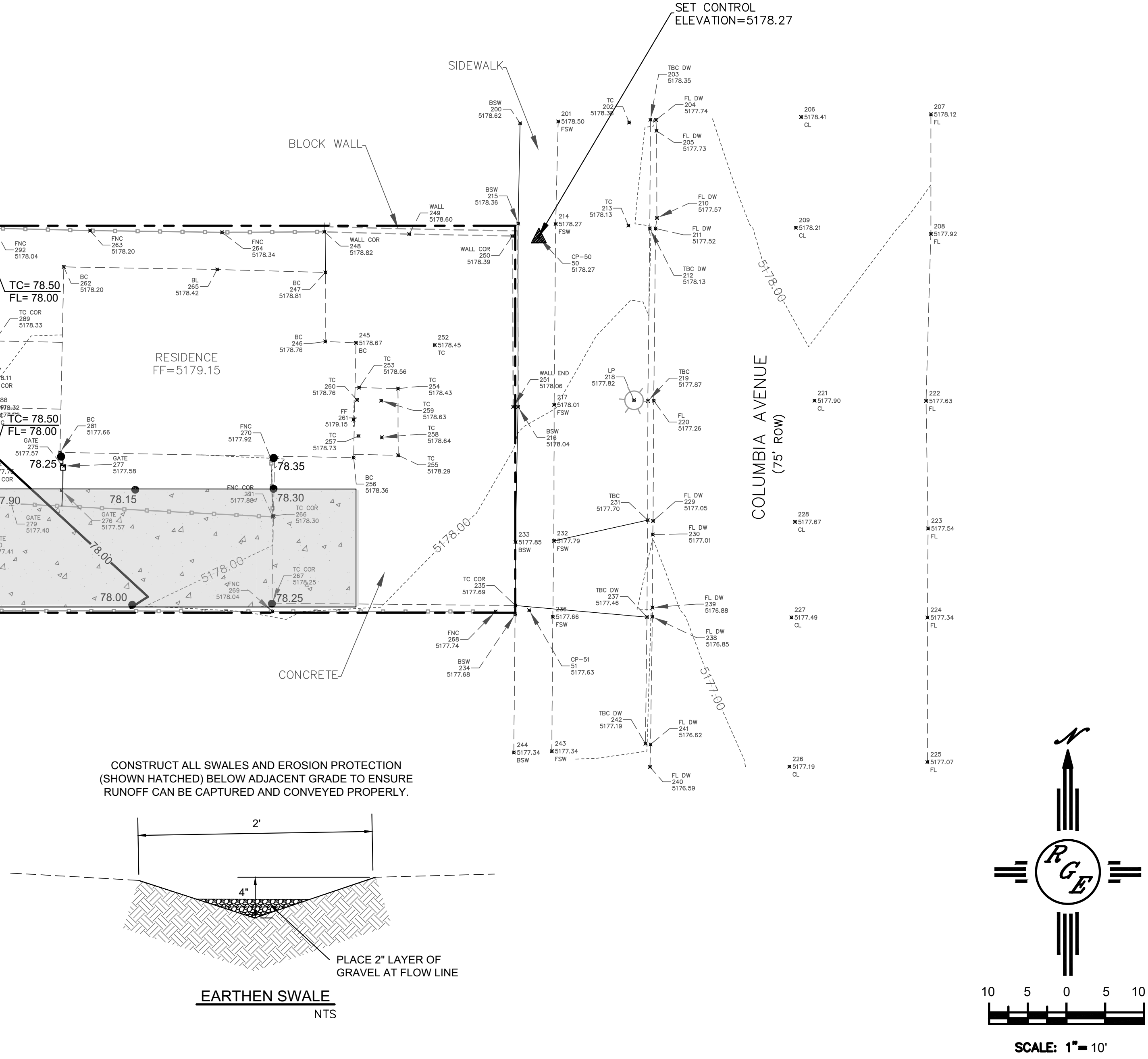
NOTES:

- 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.
- LONG TERM MAINTAINANCE OF ALL PONDS, SWALES AND OVERFLOWS IS REQUIRED
- A PAD ELEVATION CERTIFICATION SHALL BE REQUIRED PRIOR TO RELEASE OF BUILDING PERMIT.

LEGEND

-----XXXX-----	EXISTING CONTOUR
-----XXXX-----	EXISTING INDEX CONTOUR
-----XXXX-----	PROPOSED CONTOUR
-----XXXX-----	PROPOSED INDEX CONTOUR
• XXXX	EXISTING SPOT ELEVATION
● XXXX	PROPOSED SPOT ELEVATION
-----	BOUNDARY
-----	ADJACENT BOUNDARY
=====	EXISTING CURB AND GUTTER
-----<-----	PROPOSED EARTHEN SWALE
-----	PROPOSED RETAINING WALL
-----	PROPOSED GRAVEL
-----	PROPOSED GRAVEL PARKING
-----	PROPOSED 2' WIDE COBBLE SWALE

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.



ENGINEER'S SEAL	LOT 2 BLK 19 UNIVERSITY HEIGHTS ADD 321 COLUMBIA AVE.	DRAWN BY DEM
DAVID SOULE NEW MEXICO 14522 PROFESSIONAL ENGINEER	GRADING AND DRAINAGE PLAN	DATE 10-5-24
10/8/24	 Rio Grande Engineering P.O. BOX 53924 ALBUQUERQUE, NM 87199 (505) 321-8099	SHEET # C1
DAVID SOULE P.E. #14522		JOB #