

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

May 28, 2025

David Soule, P.E.
Rio Grande Engineering
PO BOX 93924
Albuquerque, NM 87199

**RE: Velasquez Residence
8701 Glendale NE
Grading & Drainage Plan
Engineer's Stamp Date: 5/28/25
Hydrology File: B20D069
Case # HYDR-2025-00192**

Dear Mr. Soule:

PO Box 1293

Based upon the information provided in your submittal received 5/28/2025, the Grading 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.

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

Weighted E Method

Existing Developed Basins														
Basin	Area (sf)	Area (acres)	Treatment				100-Year, 6-hr.		10-day					
			%	(acres)	%	(acres)	Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs	Volume (ac-ft)				
UPLAND BASIN FROM PRIVATE	36575	0.840	0%	0	30.0%	0.252	20.0%	0.16793	50%	0.420	1.766	0.124	3.04	0.180
UPLAND BASIN FROM ROAD	24240	0.556	0%	0	30.0%	0.167	30.0%	0.11120	50%	0.278	1.766	0.082	2.02	0.119
ALLOWED PER NAA	38610	0.886	20%	0.17727	30.0%	0.266	34.0%	0.30136	26%	0.230	1.433	0.106	2.98	0.137
PROPOSED	38610	0.886	65%	0.57614	10.0%	0.089	19.0%	0.16841	6%	0.053	0.883	0.065	2.05	0.072
COMPARISON				-0.399		0.177		0.133		0.177		-0.041	-0.925	-0.064

Equations:

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

Volume = Weighted D * Total Area

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

Where for 100-year, 6-hour storm (zone 4)

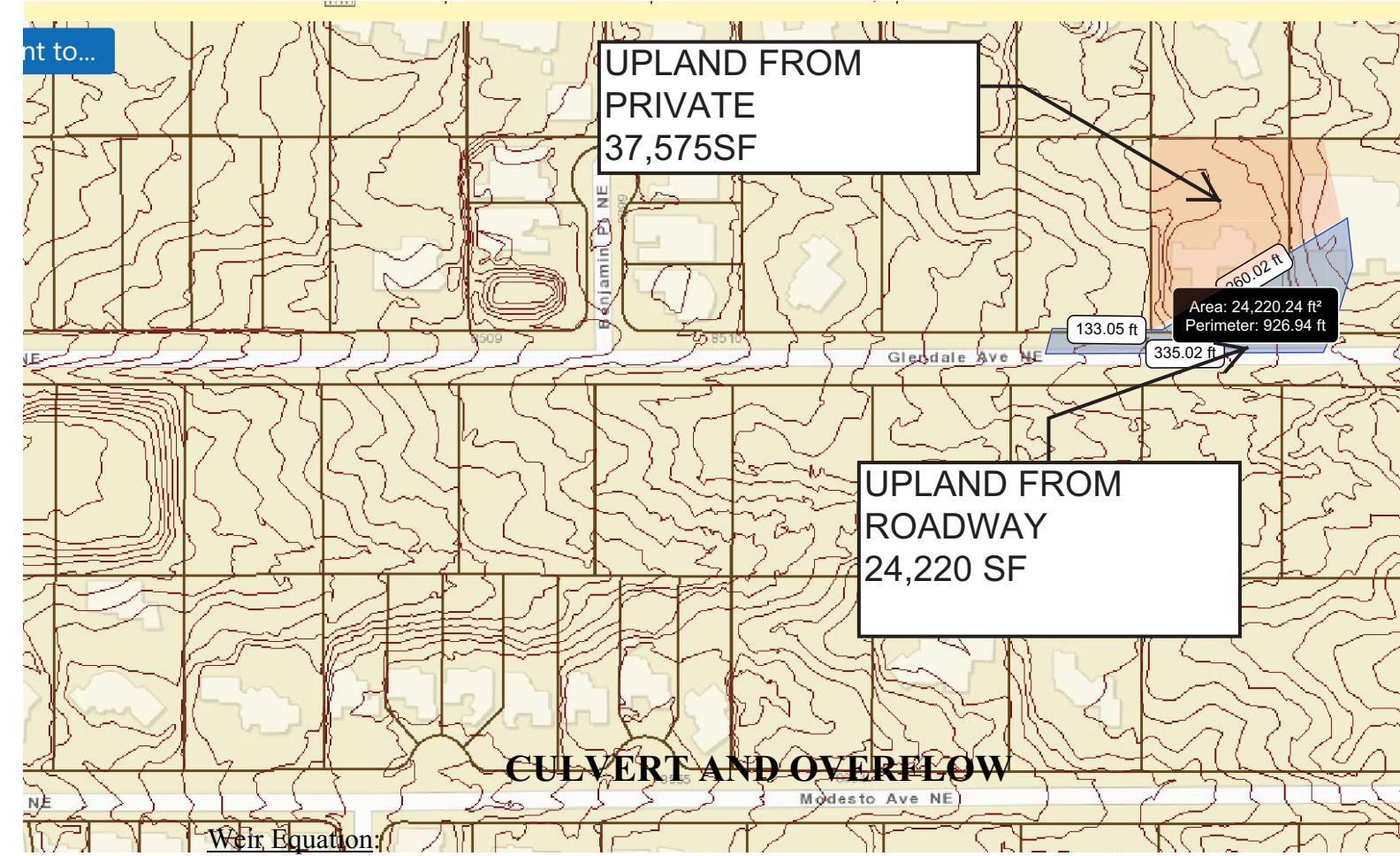
Ea= 0.67
Eb= 0.86
Ec= 1.09
Ed= 2.58

Qa= 1.84
Qb= 2.49
Qc= 3.17
Qd= 4.49

Pond volume required to reduce to below NAA Allowable 83.01 cf
Water quality volume 101 cf
Pond volume provided

Narrative
The subject property is located within the boundaries of the North Albuquerque Acres Master Drainage Master Plan. This lot is located in the LR- Low Density Residential area of the developed condition assumption map. The impervious area conforms to the allowed conditions assumptions. Therefore ponding is not for storm water management. 83 cf is required for fish treatment. Upland flow is allowed to enter from the adjacent property and from roadway per historic. Due to city policy we are required to an 84" storm drain.

The construction of storm drain will be via work order process and or guaranteed and deferred

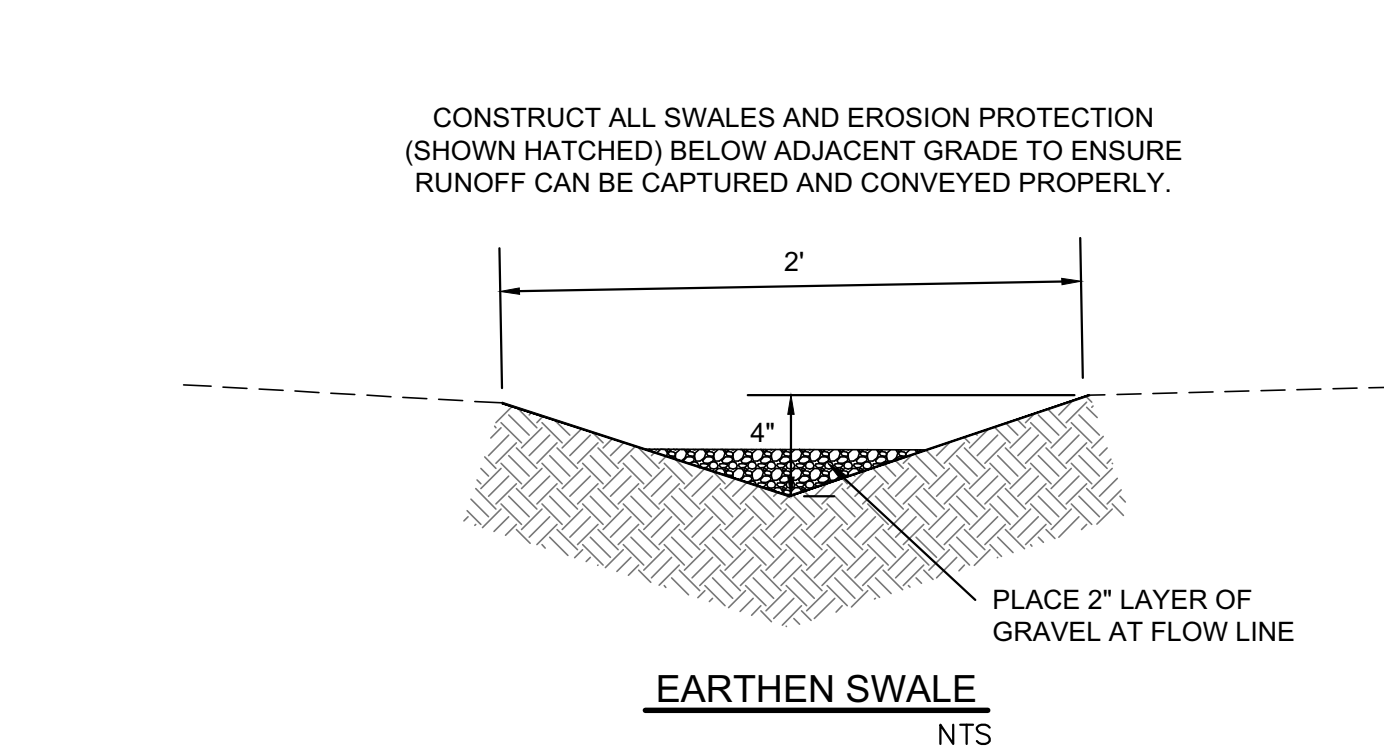


$Q = CLH^{3/2}$

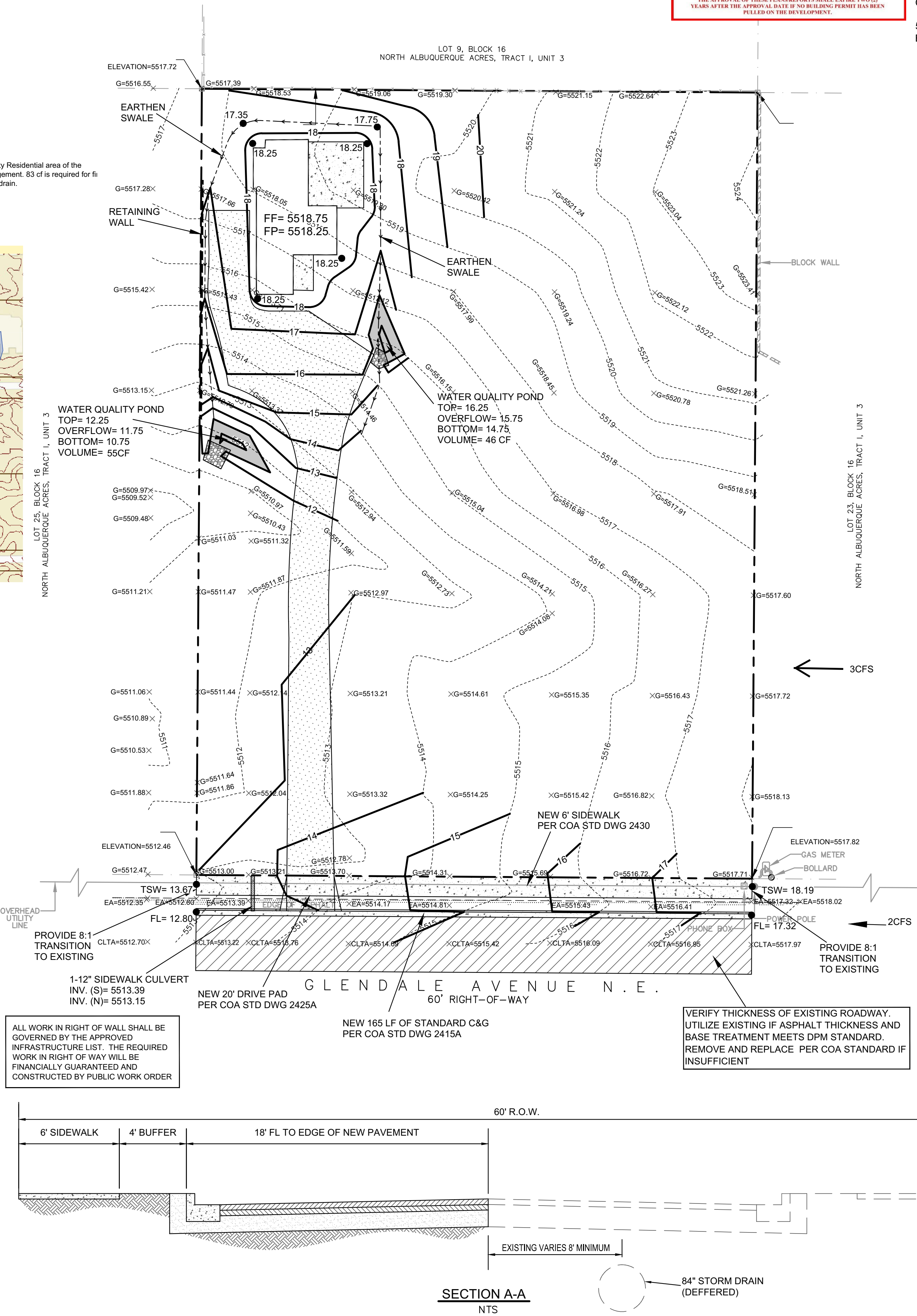
Q= 3.00
C = 2.95
H = 0.67 ft
L = Length of weir

SIDEWALK CULVERT

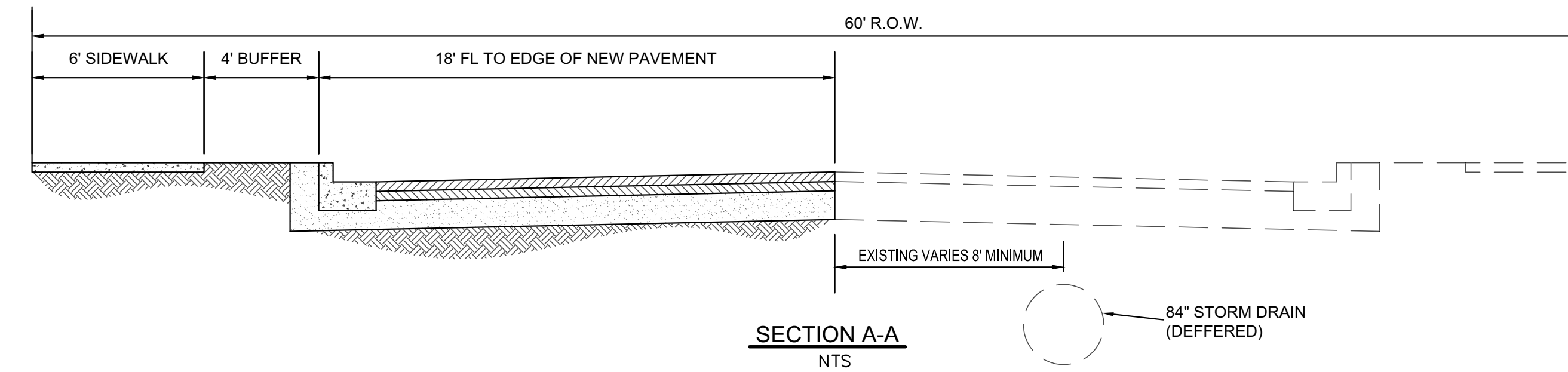
$Q = 2.95 * 2 * ((0.67)^{3/2}) = 3.23$ CFS,
THEREFORE 1 CULVERT IS ACCEPTABLE



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.



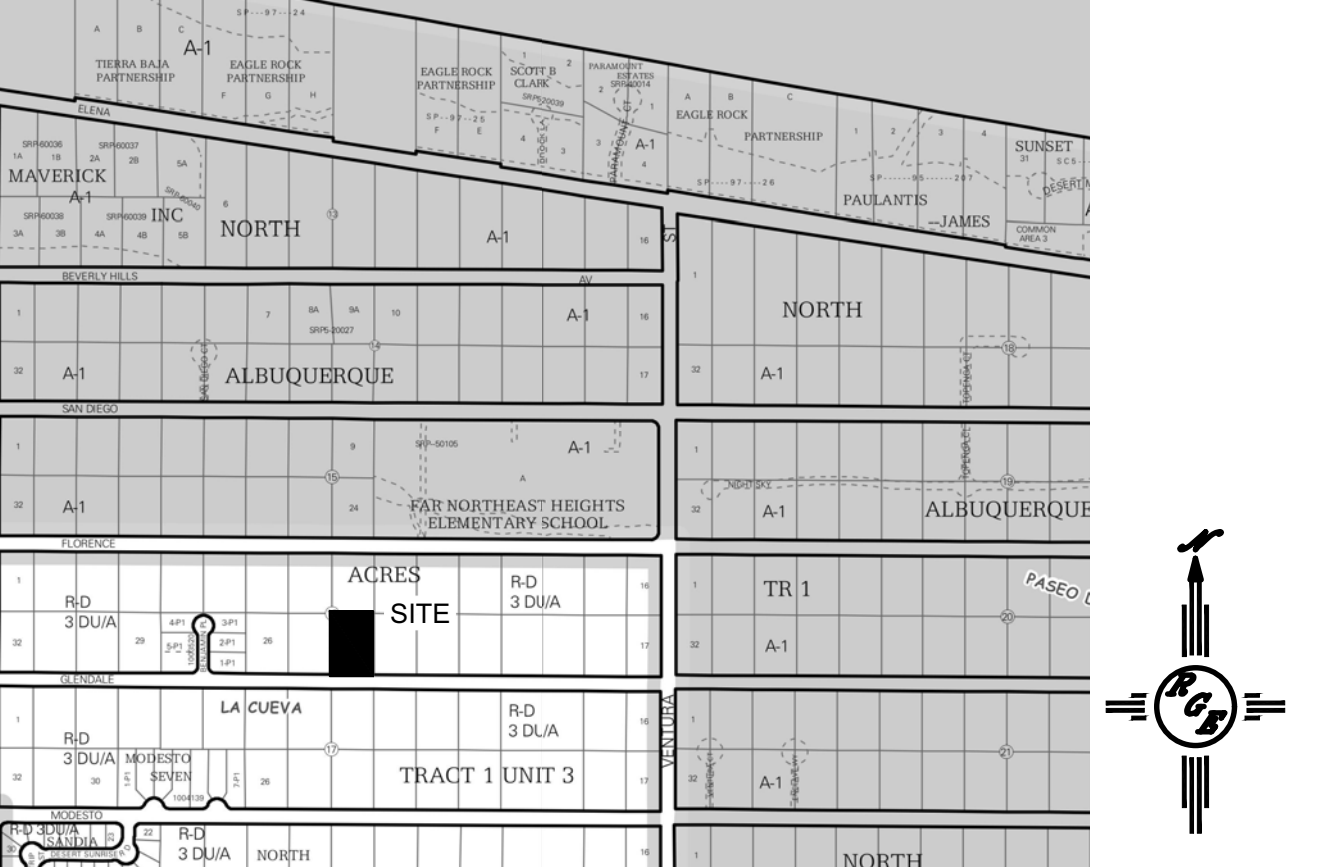
ALL WORK IN RIGHT OF WALL SHALL BE GOVERNED BY THE APPROVED INFRASTRUCTURE LIST. THE REQUIRED WORK IN RIGHT OF WAY WILL BE FINANCIALLY GUARANTEED AND CONSTRUCTED BY PUBLIC WORK ORDER



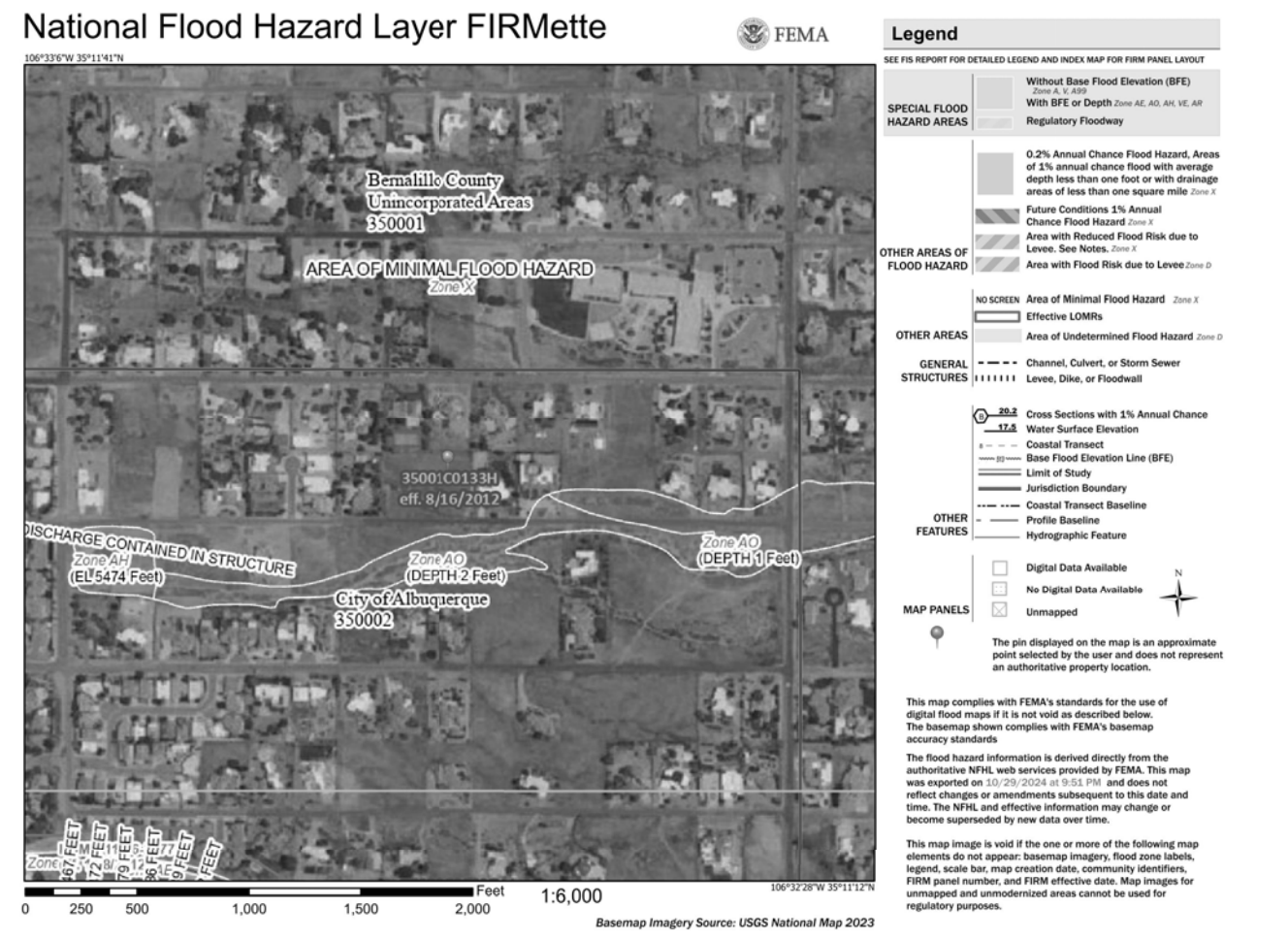
City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION
APPROVED
DATE: 5/28/2025
BY: [Signature]
HydroTons # B20D069
THE APPROVAL OF THESE PLANS/REPORTS SHALL NOT BE CONSIDERED TO PERMIT VIOLATIONS OF ANY CITY ORDINANCE OR STATE LAW, AND SHALL NOT PREVENT THE CITY OF ALBUQUERQUE 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 TWO (2) YEARS AFTER THE APPROVAL DATE IF NO BUILDING PERMIT HAS BEEN FILED ON THE DEVELOPMENT.

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.



VICINITY MAP: B-20-Z



FIRM MAP:

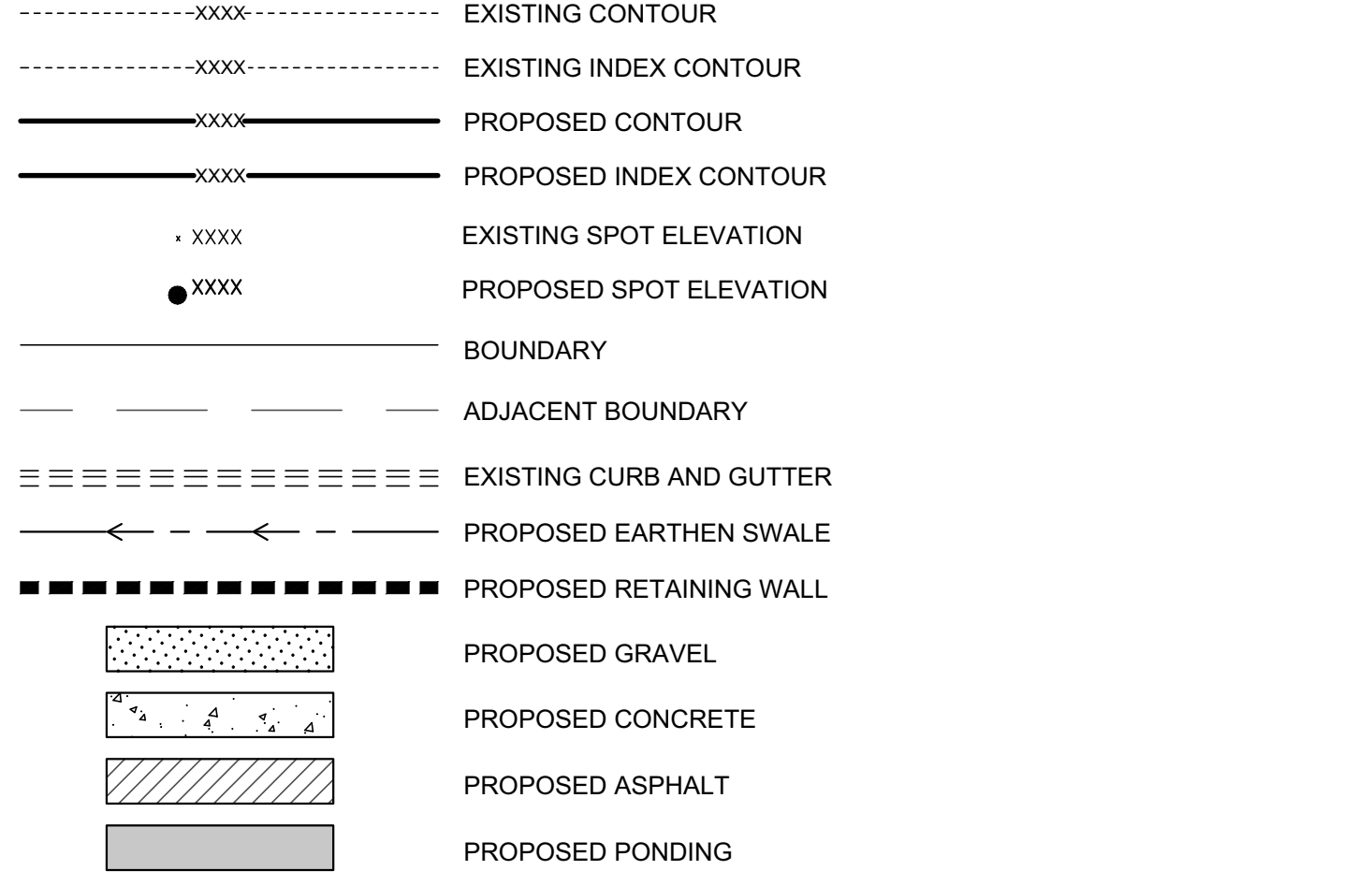
LEGAL DESCRIPTION:

LOT 24, BLOCK 16 NORTH ALBUQUERQUE ACRES TRACT 1 UNIT 3
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



ENGINEER'S SEAL	LOT 24 BLK 16 U 3 NAA 8701 GLENDALE AVE. NE	DRAWN BY DEM
DAVID SOULE REGISTERED PROFESSIONAL ENGINEER 14522	GRADING AND DRAINAGE PLAN	DATE 11-1-24
5/28/25	Rio Grande Engineering	8701 Glendale Ave NE, DING
DAVID SOULE P.E. #14522	ALBUQUERQUE, NM 87199 (505) 321-8099	SHEET # C1
		JOB #