

# CITY OF ALBUQUERQUE

Planning Department  
Alan Varela, Director



Mayor Timothy M. Keller

March 14, 2025

Donna Sandoval  
Tierra West, LLC  
5571 Midway Park Place NE  
Albuquerque, NM, 87109

**RE: Route 66 Storage  
XXXX Central Ave. SW  
Lot 18-A-1 Plat of Lots 13-A-1 & 18-A-1, Vista  
Grading and Drainage Plan  
Engineer's Stamp Date: 2/13/25  
Hydrology File: K09D056  
Case # HYDR-2025-00054**

Dear Ms. Sandoval:

Based upon the information provided in your submittal received 2/20/2025, the Grading & Drainage Plans are 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.

**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.
2. Please provide the executed paper Drainage Covenant (latest revision) printed on one-side only with Exhibit A and a check for **\$25.00** made out to "**Bernalillo County**" for the stormwater quality pond per Article 6-15(C) of the DPM to Hydrology for review at Plaza de Sol.

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](mailto:jhughes@cabq.gov), 505-924-3420) 14 days prior to any earth disturbance.

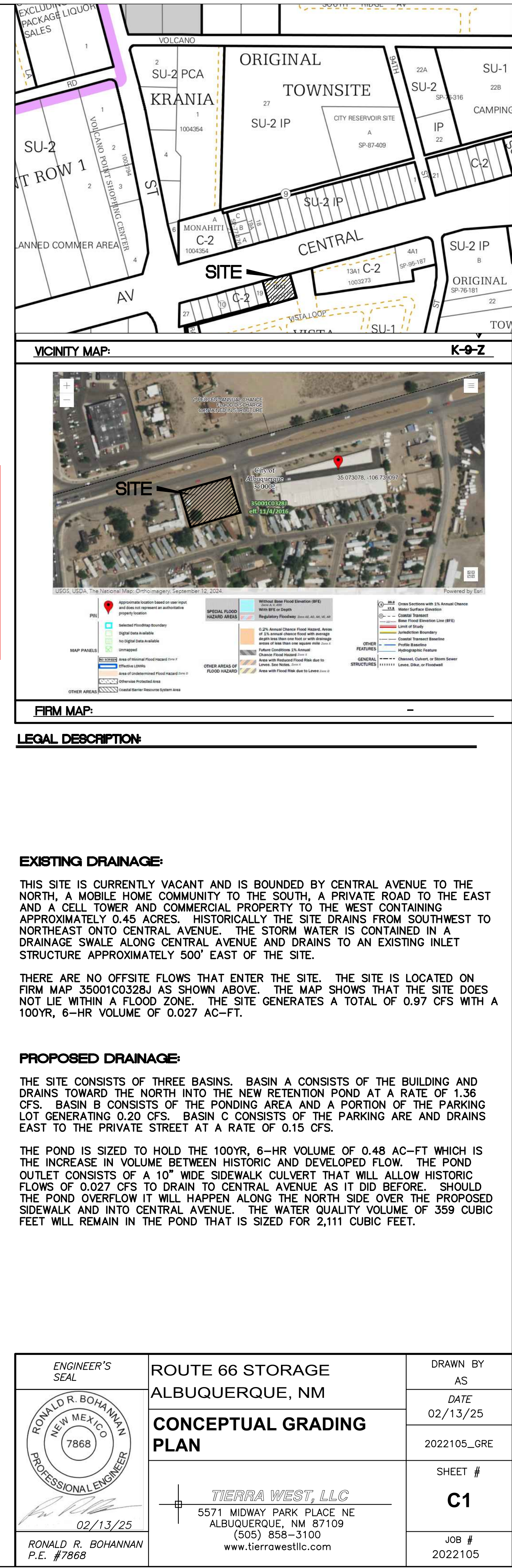
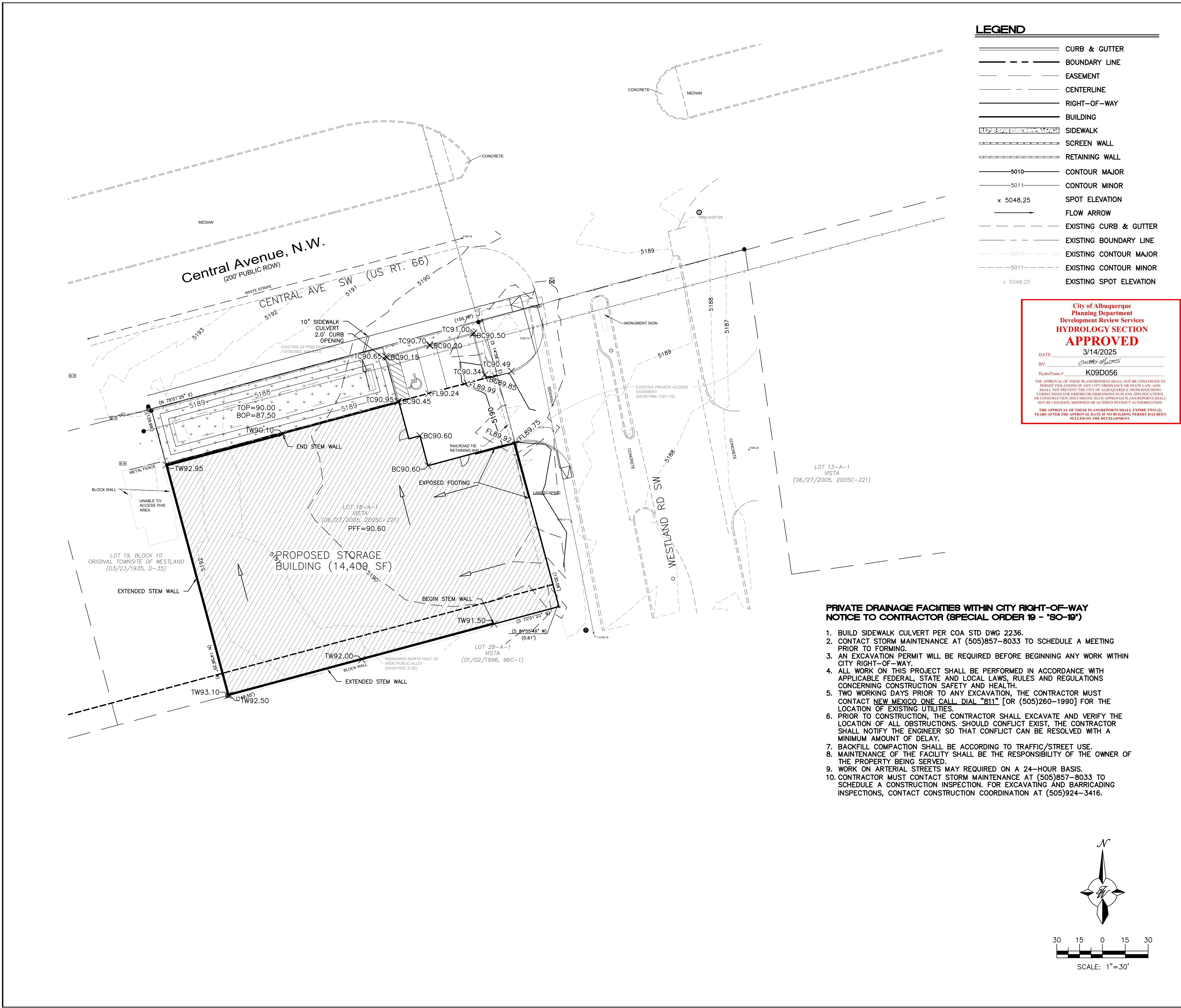
If you have any questions, please contact me at 505-924-3995 or [rbrissette@cabq.gov](mailto:rbrissette@cabq.gov).

Sincerely,

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

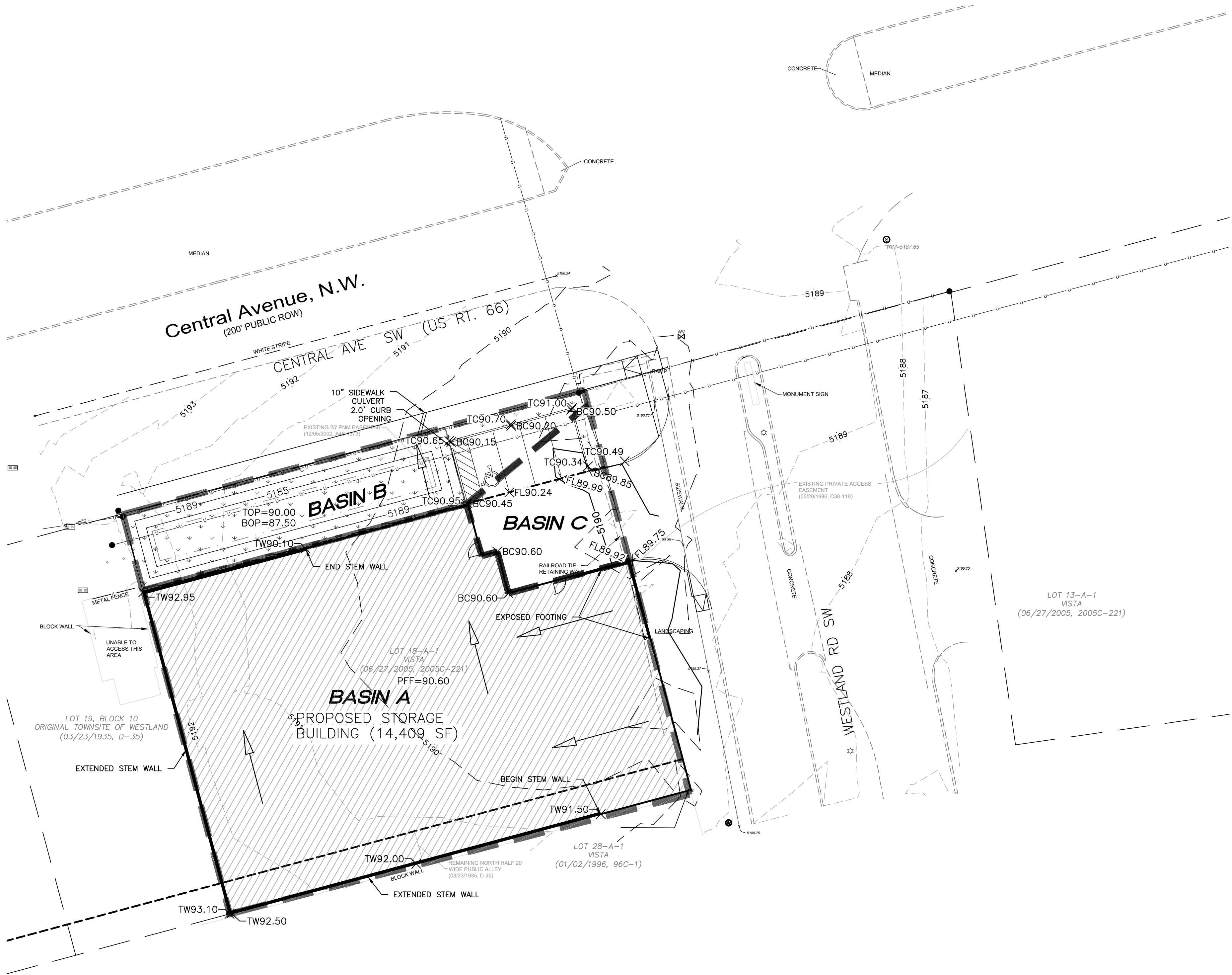


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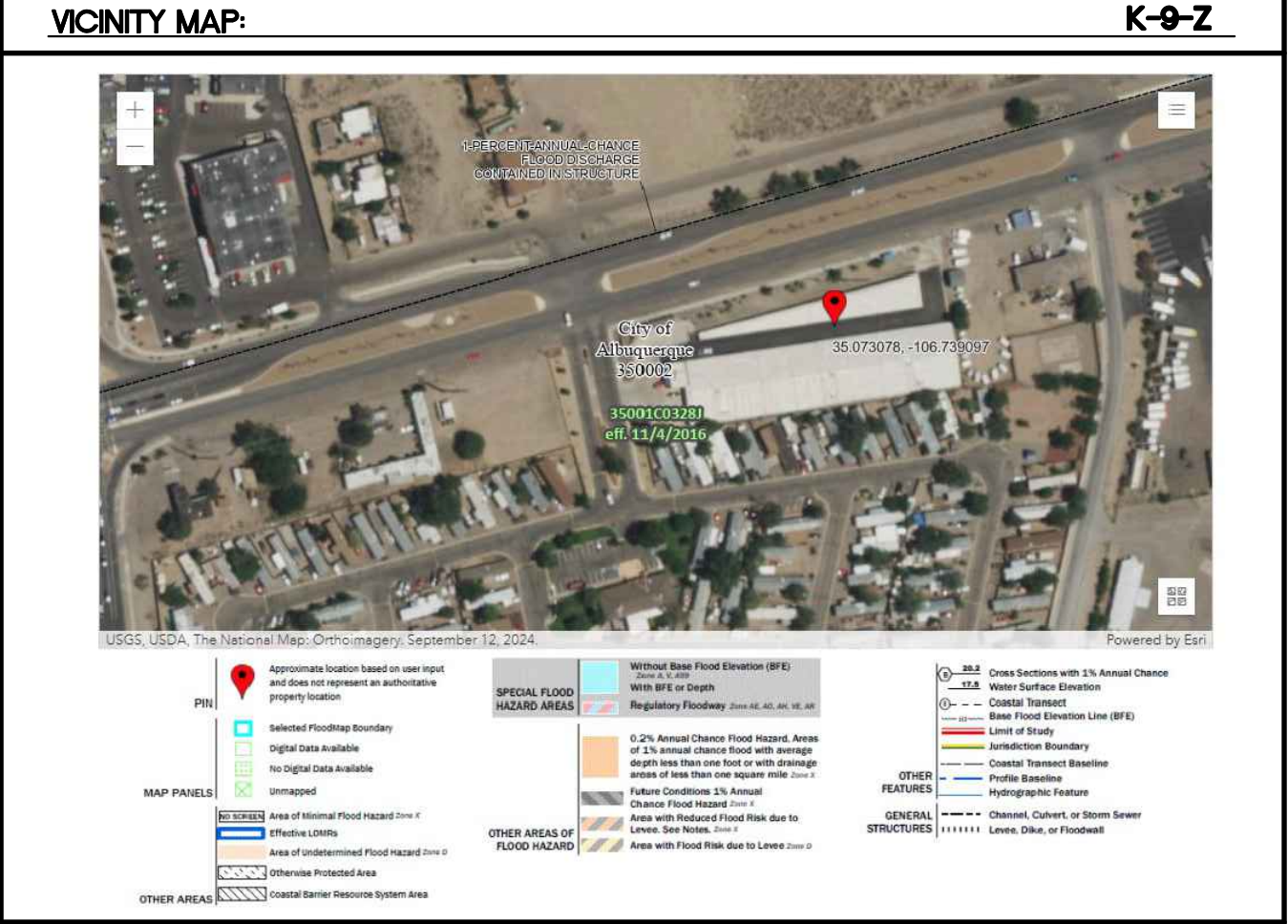
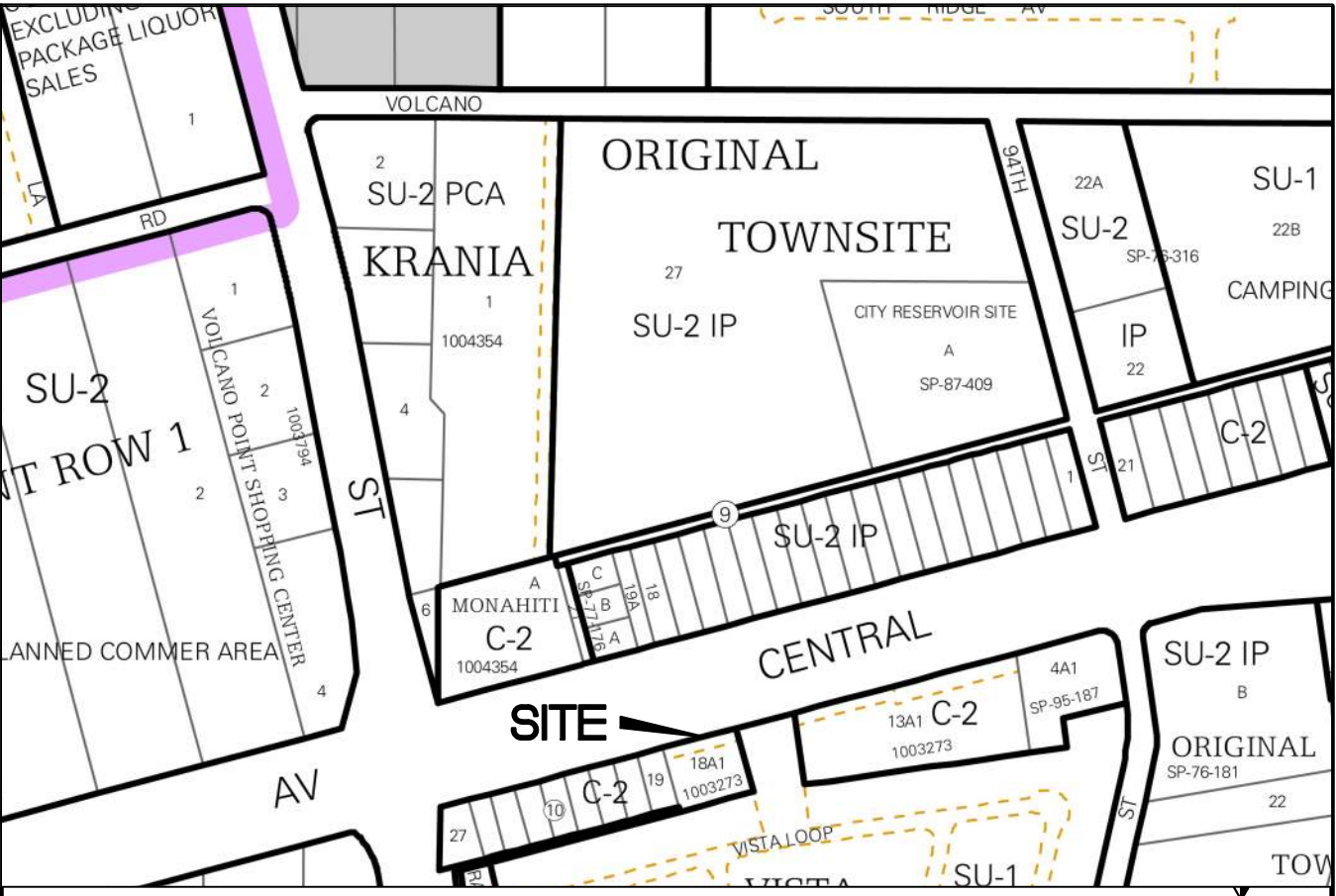


- LEGEND**
- DRAINAGE BASINS
  - FLOW ARROW
  - EXISTING CURB & GUTTER
  - EXISTING BOUNDARY LINE
  - EXISTING CONTOUR MAJOR
  - EXISTING CONTOUR MINOR
  - EXISTING SPOT ELEVATION

City of Albuquerque  
Planning Department  
Development Review Services  
**HYDROLOGY SECTION**  
**APPROVED**

DATE: 3/14/2025  
BY: *Chris M...*  
HydroTrans # K09D056

THE APPROVAL OF THESE PLANS/REPORTS SHALL NOT BE CONSTRUED TO PERMIT VIOLATIONS OF ANY CITY ORDINANCE OR STATE LAW, AND SHALL NOT PREVENT THE CITY OF ALBUQUERQUE FROM REQUIRING 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.



**LEGAL DESCRIPTION:**

**EXISTING DRAINAGE:**

THIS SITE IS CURRENTLY VACANT AND IS BOUNDED BY CENTRAL AVENUE TO THE NORTH, A MOBILE HOME COMMUNITY TO THE SOUTH, A PRIVATE ROAD TO THE EAST AND A CELL TOWER AND COMMERCIAL PROPERTY TO THE WEST CONTAINING APPROXIMATELY 0.45 ACRES. HISTORICALLY THE SITE DRAINS FROM SOUTHWEST TO NORTHEAST ONTO CENTRAL AVENUE. THE STORM WATER IS CONTAINED IN A DRAINAGE SWALE ALONG CENTRAL AVENUE AND DRAINS TO AN EXISTING INLET STRUCTURE APPROXIMATELY 500' EAST OF THE SITE.

THERE ARE NO OFFSITE FLOWS THAT ENTER THE SITE. THE SITE IS LOCATED ON FIRM MAP 35001C0328J AS SHOWN ABOVE. THE MAP SHOWS THAT THE SITE DOES NOT LIE WITHIN A FLOOD ZONE. THE SITE GENERATES A TOTAL OF 0.97 CFS WITH A 100YR, 6-HR VOLUME OF 0.027 AC-FT.

**PROPOSED DRAINAGE:**

THE SITE CONSISTS OF THREE BASINS. BASIN A CONSISTS OF THE BUILDING AND DRAINS TOWARD THE NORTH INTO THE NEW RETENTION POND AT A RATE OF 1.36 CFS. BASIN B CONSISTS OF THE PONDING AREA AND A PORTION OF THE PARKING LOT GENERATING 0.20 CFS. BASIN C CONSISTS OF THE PARKING ARE AND DRAINS EAST TO THE PRIVATE STREET AT A RATE OF 0.15 CFS.

THE POND IS SIZED TO HOLD THE 100YR, 6-HR VOLUME OF 0.48 AC-FT WHICH IS THE INCREASE IN VOLUME BETWEEN HISTORIC AND DEVELOPED FLOW. THE POND OUTLET CONSISTS OF A 10" WIDE SIDEWALK CULVERT THAT WILL ALLOW HISTORIC FLOWS OF 0.027 CFS TO DRAIN TO CENTRAL AVENUE AS IT DID BEFORE. SHOULD THE POND OVERFLOW IT WILL HAPPEN ALONG THE NORTH SIDE OVER THE PROPOSED SIDEWALK AND INTO CENTRAL AVENUE. THE WATER QUALITY VOLUME OF 359 CUBIC FEET WILL REMAIN IN THE POND THAT IS SIZED FOR 2,111 CUBIC FEET.

**Weighted E Method**

Basin	Area (sf)	Area (acres)	Treatment				100-Year			10-Year		
			Treatment A (%)	Treatment B (%)	Treatment C (%)	Treatment D (%)	Weighted E (in)	Volume (ac-ft)	Flow cfs	Weighted E (in)	Volume (ac-ft)	Flow cfs
1	19,511	0.45	0%	100%	0.45	0.00	0.730	0.027	0.97	0.260	0.010	0.36
A	14,409	0.33	0%	0%	0.00	100%	2.240	0.062	1.36	1.430	0.039	0.85
B	3,443	0.08	0%	84%	0.07	0.00	0.972	0.006	0.20	0.447	0.003	0.09
C	1,659	0.04	0%	6%	0.00	0.00	2.149	0.007	0.15	1.360	0.004	0.09
	19,511					0.38	0.075	1.71				

0.048 Required ponding

**Equations:**

Weighted E =  $E_a \cdot A_a + E_b \cdot A_b + E_c \cdot A_c + E_d \cdot A_d$  / (Total Area)

Volume = Weighted D \* Total Area

Flow =  $Q_a \cdot A_a + Q_b \cdot A_b + Q_c \cdot A_c + Q_d \cdot A_d$

Water Quality Calculation:  $0.26'' \times 0.38 \text{ ac} = 359 \text{ cubic feet (0.008 ac-ft)}$

Excess Precipitation, E (inches)		
Zone 1	100-Year	10 - Year
E <sub>a</sub>	0.55	0.11
E <sub>b</sub>	0.73	0.26
E <sub>c</sub>	0.95	0.43
E <sub>d</sub>	2.24	1.43

Peak Discharge (cfs/acre)		
Zone 1	100-Year	10 - Year
Q <sub>a</sub>	1.54	0.3
Q <sub>b</sub>	2.16	0.81
Q <sub>c</sub>	2.87	1.46
Q <sub>d</sub>	4.12	2.57

**WEIR EQUATION:**

$Q = \text{Flow}$   
 $C = 2.95$   
 $L = \text{LENGTH OF WEIR}$   
 $H = \text{HEIGHT OF WEIR}$

**POND INLET**

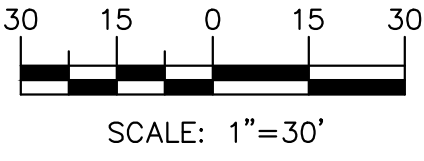
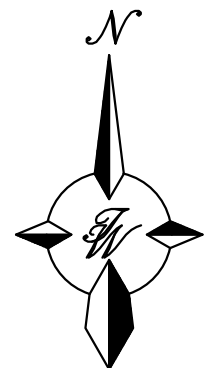
$Q = 2.70 \cdot 2 \cdot 0.502^{\frac{3}{2}}$

$Q = 1.91 \text{ CFS} > Q = 1.00 \text{ CFS}$

**POND OUTLET**

$Q = 2.70 \cdot 85 \cdot 0.502^{\frac{3}{2}}$

$Q = 0.82 \text{ CFS} = Q = 0.82 \text{ CFS}$



 RONALD R. BOHANNAN P.E. #7868	ENGINEER'S SEAL	ROUTE 66 STORAGE ALBUQUERQUE, NM	DRAWN BY AS
	DATE 02/13/25		2022105_DRE
	GRADING & DRAINAGE PLAN	SHEET # <b>##</b>	JOB # 2022105