

# CITY OF ALBUQUERQUE

Planning Department  
Alan Varela, Director



Mayor Timothy M. Keller

January 3, 2024

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

**RE: 6600 Palomas Ave NE - Addition  
Grading and Drainage Plan  
Engineer's Stamp Date: 12/19/23  
Hydrology File: D18D024**

Dear Mr. Soule:

Based upon the information provided in your submittal received 12/19/2023, 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

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 ponds per Article 6-15(C) of the DPM to Hydrology for review at Plaza de Sol.

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

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

Sincerely,

Renée C. Brissette, P.E. CFM  
Senior Engineer, Hydrology  
Planning Department





Weighted E Method

353.2883333

Existing Developed Basins										100-Year, 6-hr.		10-day	
Basin	Area (sf)	Area (acres)	Treatment A %	Treatment B %	Treatment C %	Treatment D %	Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs	Volume (ac-ft)	Flow cfs	Volume (ac-ft)	Flow cfs
EXISTING AREA CONDITION	6290	0.144	70%	0.10108	30.0%	0.043	0.0%	0.000	0%	0.000	0.674	0.008	0.28
PROPOSED AREA CONDITION	6290	0.144	10%	0.01444	25.0%	0.036	23.0%	0.033	42%	0.061	1.478	0.018	0.47

Equations:  $Weighted\ E = Ea \cdot Aa + Eb \cdot Ab + Ec \cdot Ac + Ed \cdot Ad / (Total\ Area)$

First flush requirement =imperviousx0.34/12 north basin 75 cubic feet

Volume = Weighted D \* Total Area

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

Where for 100-year, 6-hour storm (zone 2)

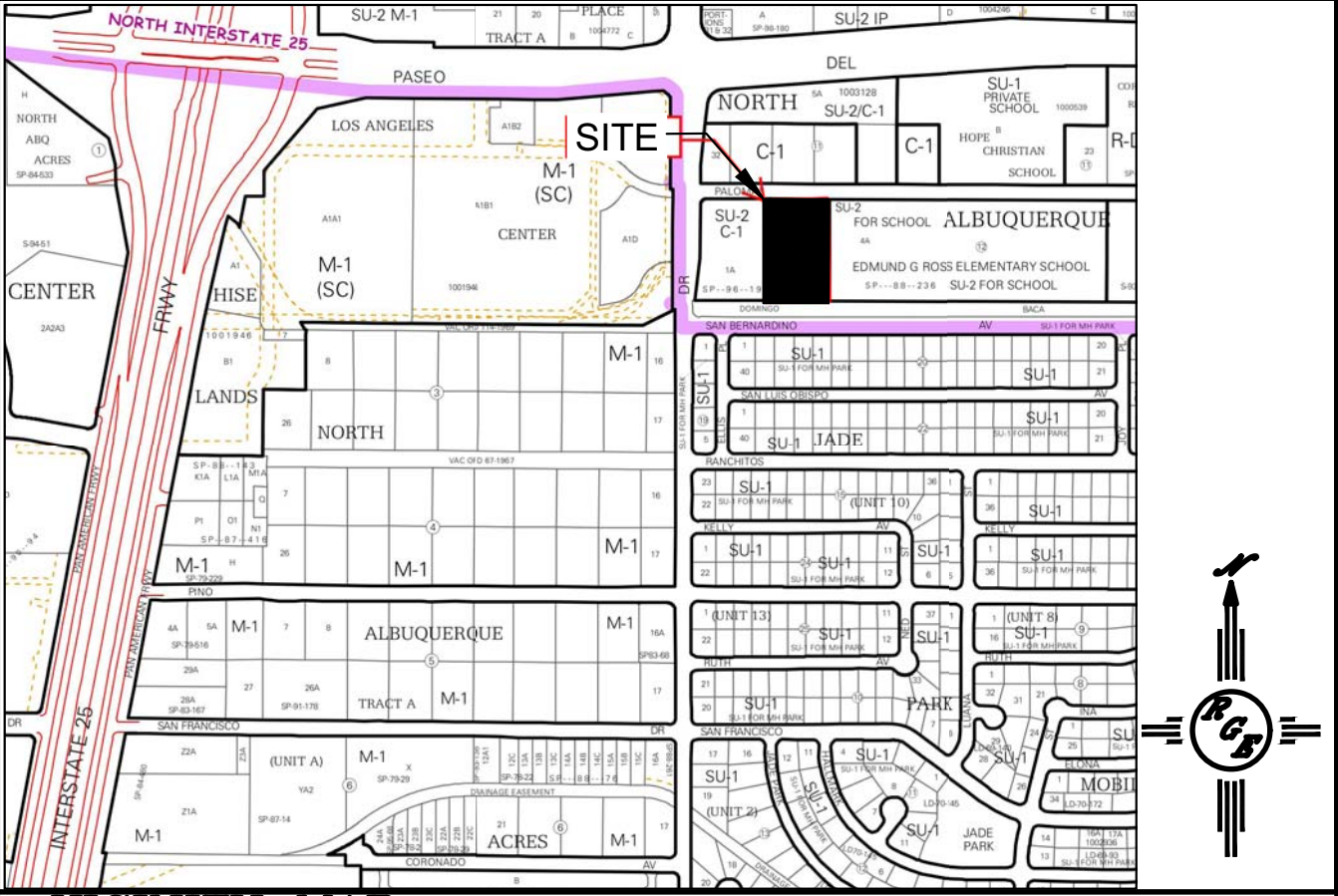
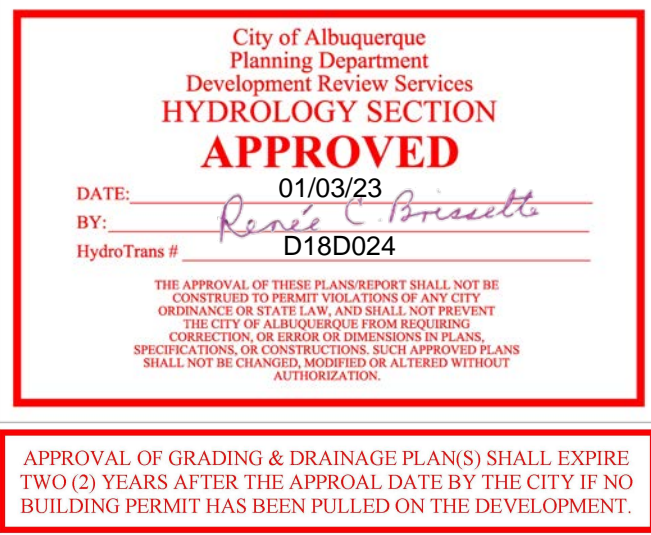
Ea= 0.62 Qa= 1.71  
Eb= 0.8 Qb= 2.36  
Ec= 1.03 Qc= 3.05  
Ed= 2.33 Qd= 4.34

EXISTING DISCHARGE 353 CF  
PROPOSED DISCHARGE 1127 CF  
DIFFERENCE 773 CF  
RETAINED VOLUME 778 CF

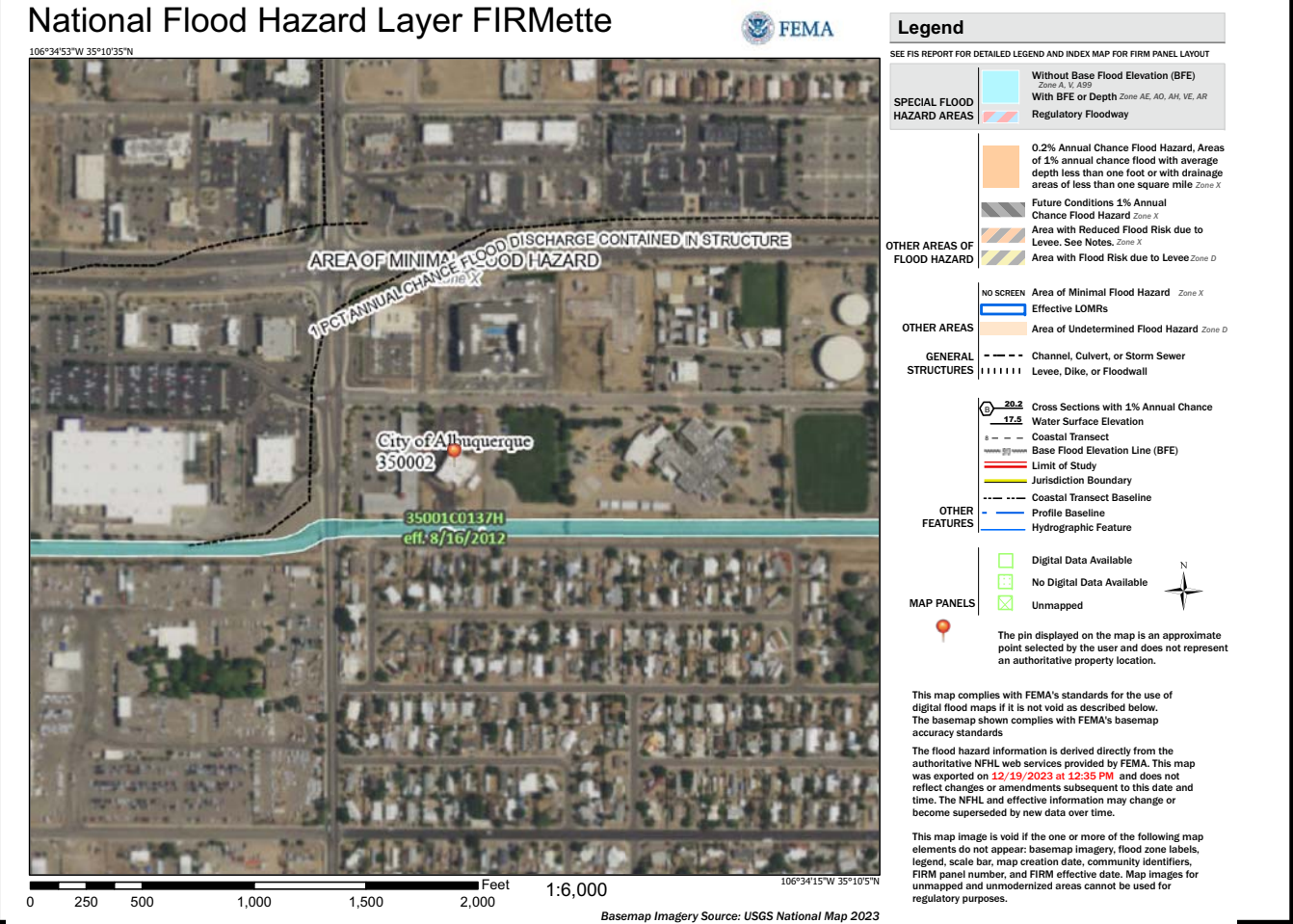
DRAINAGE NARRATIVE  
THIS SITE IS A DEVELOPMENT OF A PREVIOUSLY ANALYZED SITE. THE OVERALL DEVELOPMENT (18-0024) WAS ANALYZED BY EASTERLINE AND ASSOCIATES. THIS SITE IS LOCATED IN PROPOSED DRAINAGE BASIN 2D. THE DEVELOPED DISCHARGE FOR THIS BASIN IS ALLOWED TO FREE DISCHARGE TO AN EXISTING POND WITH OUTLET TO THE ADJACENT DOMINGO BACA ARROYO. THE PROPOSED IMPROVEMENT WILL GENERATE INCREASED DISCHARGE. DUE TO NEW WATER QUALITY RULES, THE PROPOSED SOLUTION WILL BE TO RETAIN THE ENTIRE INCREASE IN FLOW TO ASSIST IN THE WATER QUALITY OF THE OVERALL SITE. THE EXISTING DRAINAGE PATTN WILL REMAIN.

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:



FIRM MAP:

LEGAL DESCRIPTION:

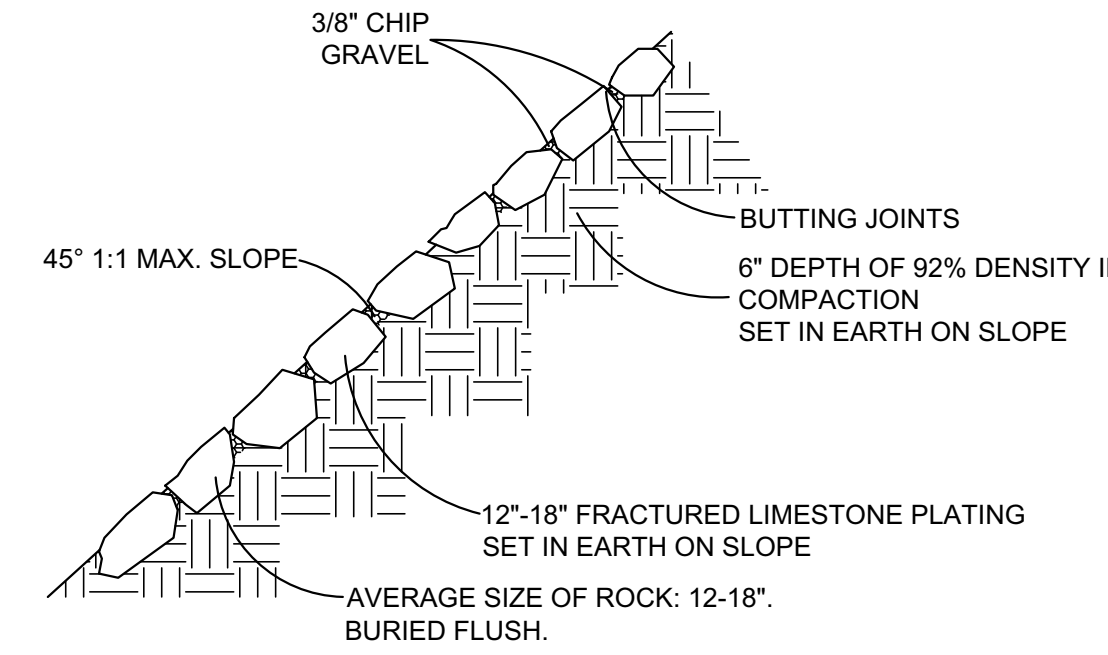
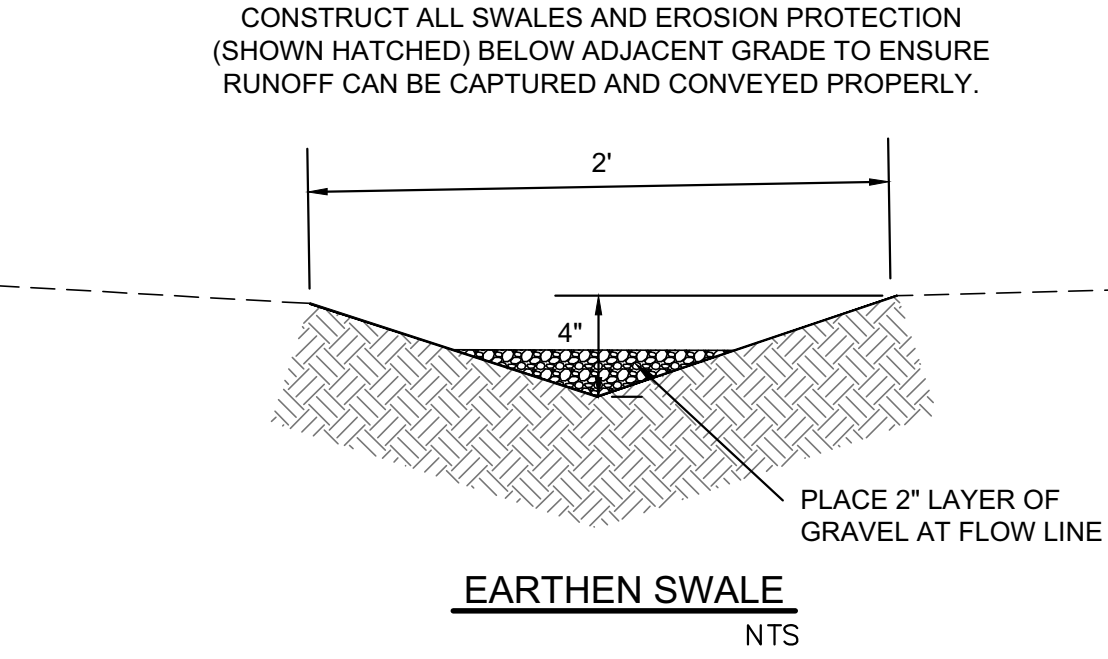
LOT 3-A, BLOCK 12 TRACT A, UNIT A NORTH ABQUQUERQUE ACRES CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

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 DYNAMIC CONSTRUCTION AND TECHNOLOGY LLC USING NM STATE PLANE CENTRAL NAD83.

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 CONCRETE
- PROPOSED 2' WIDE COBBLE SWALE

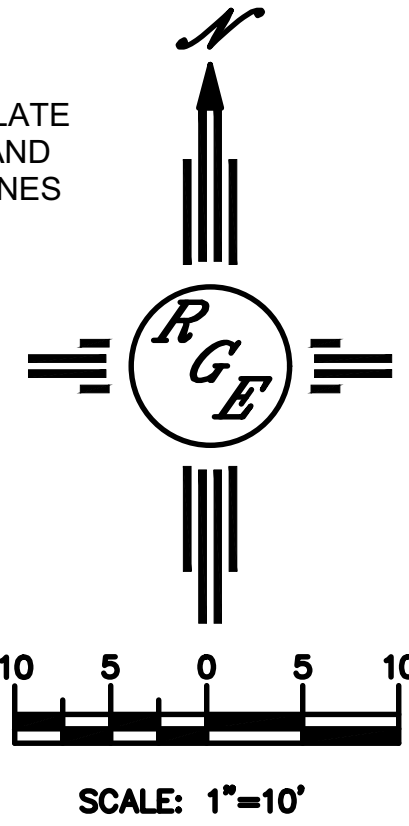
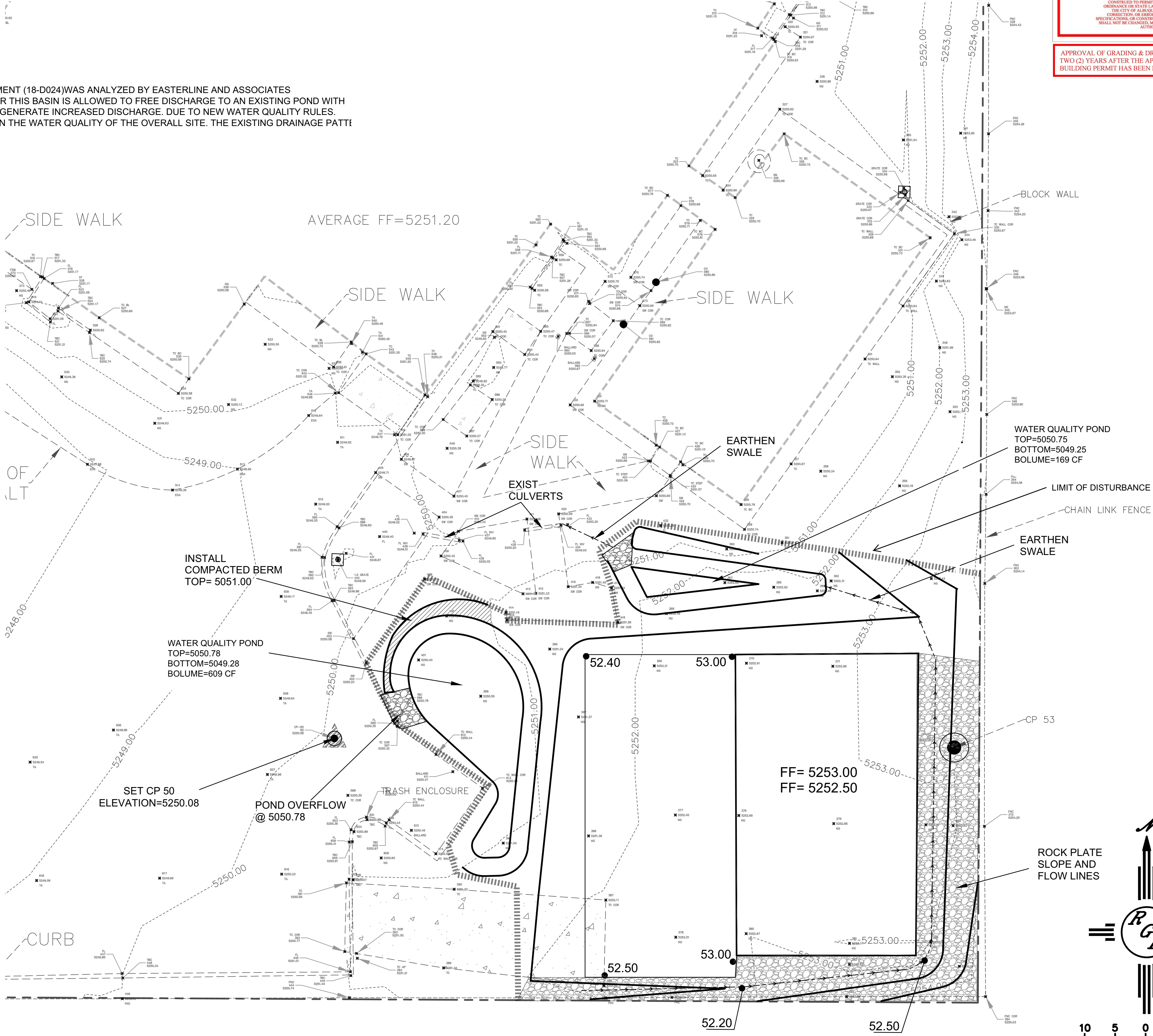


ROCK PLATING DETAIL

NTS

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 3-A, BLK 12 TRACT A, U A NAA 6600 PALOMAS AVE NE	DRAWN BY DEM
	GRADING AND DRAINAGE PLAN	DATE 12-18-23
 RIO BOX 53924 ALBUQUERQUE, NM 87199 (505) 321-9099		6600 Palomas .DWG
		SHEET # C1
DAVID SOULE P.E. #14522		JOB #