

Weighted E Method

Basin	Area (sf)	Area (acres)	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	7106.00	0.163	0%	34%	0.055	34%	0.055	32%	0.052	1.288	0.078	0.28	0.021
PROPOSED	7106.00	0.163	0%	0	0.038	34%	0.055	43%	0.070	1.454	0.020	0.24	0.024

Equations:

Weighted E = Ea\**A*a + Eb\**A*b + Ec\**A*c + Ed\**A*d / (Total Area)

Volume = Weighted E \* Total Area

Flow = *Q*a \* *A*a + *Q*b \* *A*b + *Q*c \* *A*c + *Q*d \* *A*d

Where for 100-year, 6-hour storm(zone1)  
 Ea= 0.55  
 Eb= 0.73  
 Ec= 0.95  
 Ed= 2.24  
 Qa= 1.54  
 Qb= 2.16  
 Qc= 2.87  
 Qd= 4.12

Developed Conditions	TOTAL VOLUME
HISTORICAL DISCHARGE	914 CF
PROPOSED GENERATION VOLUME INCREASE	1065 CF
PROPOSED PONDING	150 CF
	194 CF

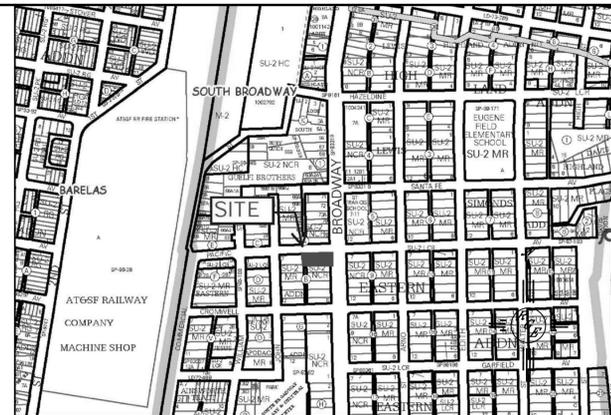
This site is a redevelopment of a previously developed lot. The existing house was demolished at some point in the past (1959 aerial on GIS shows). There is no master drainage plan for this area, all lots currently free discharge. The drainage solution is to retain the increase in flow generated by the redevelopment based upon the 24-volumes. The ponds will overflow to the alley in accordance with existing patterns. The first flush volume is retained on site.

City of Albuquerque  
 Planning Department  
 Development Review Services  
**HYDROLOGY SECTION**  
**APPROVED**  
 DATE: 03/20/24  
 BY: *David Soule*  
 HydroTeam # K14D233

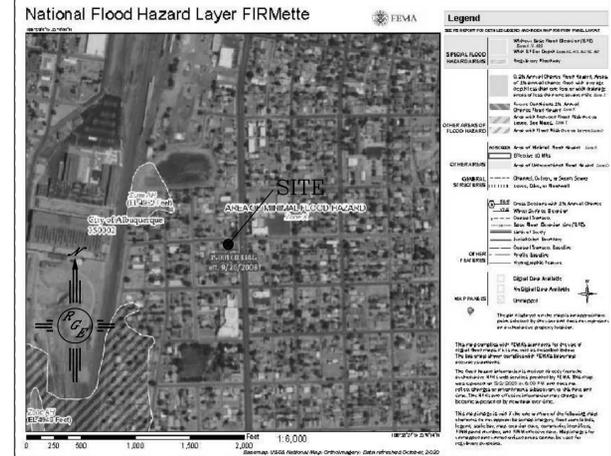
THE APPROVAL OF THESE PLANS AND PERMITS SHALL NOT BE CONSIDERED TO BE A GUARANTEE OF ANY CITY, COUNTY OR STATE, AND SHALL NOT BE A CONTRACT. THE CITY OF ALBUQUERQUE, FROM THIS DATE, HEREBY DISCLAIMS ALL LIABILITY FOR ANY DAMAGE, LOSS, INJURY, OR CONSTRUCTION COSTS, INCLUDING BUT NOT LIMITED TO, THE COST OF REMEDIATION, REPAIR, OR ALTERATION OF ANY PROPERTY, OR THE COST OF ANY LITIGATION, ARISING OUT OF OR RESULTING FROM THESE PLANS AND PERMITS. THIS APPROVAL IS VALID FOR TWO (2) YEARS AFTER THE APPROVAL DATE BY THE CITY IF NO BUILDING PERMIT HAS BEEN PULLED ON THE DEVELOPMENT.

EROSION CONTROL NOTES:

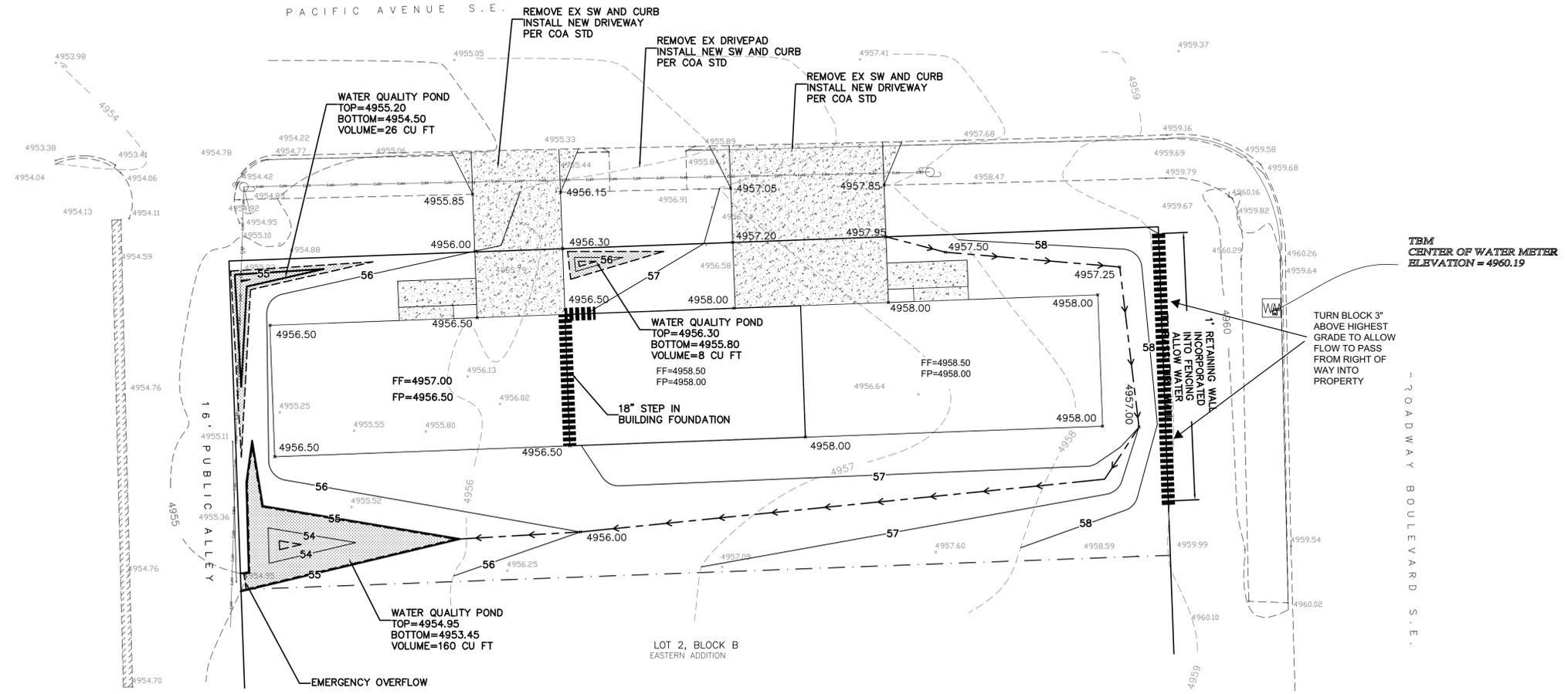
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
- REPAIR OF DAMAGED FACILITIES AND 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 (CITY) ACCEPTANCE OF ANY PROJECT.



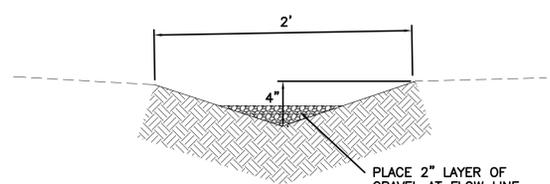
VICINITY MAP: K-14-Z



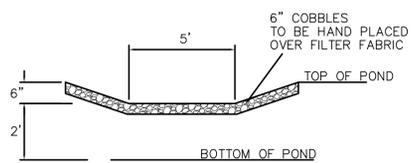
FIRM MAP: LEGAL DESCRIPTION: LOT 1, BLOCK B, EASTERN ADDITION



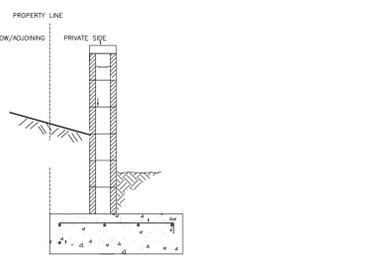
CONSTRUCT ALL SWALES AND EROSION PROTECTION (SHOWN HATCHED) BELOW ADJACENT GRADE TO ENSURE RUNOFF CAN BE CAPTURED AND CONVEYED PROPERLY.



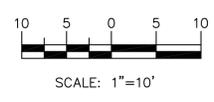
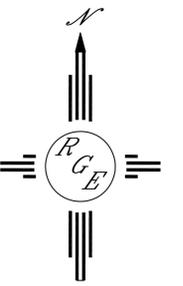
EARTHEN SWALE NTS



EMERGENCY OVERFLOW DETAIL NTS



WALL DETAILS AT ALL PROPERTY BOUNDARIES



- 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, INC USING NAVD DATUM 1988.

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
[Hatched Box]	PROPOSED CONCRETE
[Dotted Box]	PROPOSED PONDING
[Stippled Box]	PROPOSED GRAVEL

ENGINEER'S SEAL	903 BROADWAY LOT 1, BLK B, PACIFIC AVE	DRAWN BY: WCVJ
DAVID SOULE NEW MEXICO REGISTERED PROFESSIONAL ENGINEER	GRADING AND DRAINAGE PLAN	DATE: 5-12-24
03/12/24	RIO GRANDE ENGINEERING	202400014-LAND-07-3-12-24
P.E. #14522 DAVID SOULE	PO BOX 93924 ALBUQUERQUE, NM 87199 (505) 321-9099	SHEET #
		JOB # 202400014