

Lot 1 - Block 1 Brentwood Hills Addition
 Chelwood Park Blvd. & Menaul Blvd. N.E.
 Zone Classification C-1
 Zone Atlas Sheet H-22-7
 Area = 3046 Acres = 13268 sq. ft.
 Required Ponding Volume = 1327 Cu. ft.

Existing Contours
 Proposed Contours
 Basin Boundaries

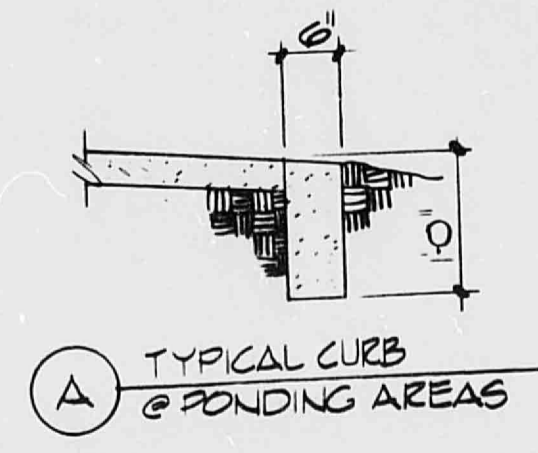
Pond "A"
 Area = $38 + 21 (28) = 826$ sq. ft.
 $Vol. = \frac{30 + 18 (25) + 826 (1.5)}{2} = 1070$ cu. ft.
 Contributing Runoff = Roof + Parking Lot + Pond
 $= \frac{2476 (2.95) (.95)}{12} + \frac{2245 (9.5) (2.95)}{12} + \frac{826 (2.95)}{12} = 1305$ cu. ft.
 Total Volume of pond will be utilized.

Pond "B"
 Area = 283 sq. ft.
 $Vol. = \frac{283 + 115 (1.5)}{2} = 300$ cu. ft.
 Contributing Runoff = Parking Lot + Pond
 $= \frac{1060 (2.95) (.95)}{12} + \frac{283 (2.95)}{12} = 317$ cu. ft.
 Total Volume of pond will be utilized
 Total ponding volume available = 1370 cu. ft. > 1327 cu. ft. . . ok.

The study site is located in the Northeast Heights area of Albuquerque. There are no natural or artificial water courses crossing the site and the site is not in the 100-year flood plain. To the north and west of the site are Menaul Blvd. and Chelwood Park Blvd. respectively. Both roads are fully developed with well defined drainage patterns away from the site. South of the site is a paved alleyway that transports flows to Chelwood. South of the alley is a fully developed apartment complex with runoff to the alley and then to Chelwood. East of the site is an undeveloped area with existing contours that direct flows to the north or east. As a result of natural and developed conditions, the site is not affected by flows from upstream areas. The proposed grading will provide sufficient ponding to maintain the existing rate and volume of runoff and will direct flows to the ponds which will fully utilize the available volumes. Erosion and siltation will be minimal due to the extent of development.

It is our opinion that if developed as proposed in this study, the site will not be susceptible to flooding from on-site or upstream runoff and will not increase the threat of flooding to downstream areas.

Victor J. Chavez
 Victor J. Chavez, NMPE License No. 5713



Revision Mark	Date
Boyle Engineering Corporation consulting engineers	
Victor J. Chavez 12/19/18 100%	
7-11 MENAUL BLVD. N.E. & CHELWOOD PARK BLVD. N.E. DRAINAGE STUDY	
Designed by:	V.J.C.
Drawn by:	E.C.S.
Checked by:	J.F.B.
Job Number:	B10-100-01
Sheet No.	1 OF 1

7/22/D45 (2)



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