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PROJECT Anasazi Ridge  
SUBJECT Drainage Colls  
BY JSD DATE \_\_\_\_\_  
CHECKED \_\_\_\_\_ DATE \_\_\_\_\_  
SHEET \_\_\_\_\_ OF \_\_\_\_\_

Verify that there is sufficient capacity in  
Calle Vizcaya (Seville, Unit 7) to carry additional  
storm flow from Anasazi, Unit 3

Section: 28' F-F, vertical curb

$S = 0.61\%$  (worst case),

1) Try flow depth = .50'

$$A = (.22' \cdot 28') + 2\left(\frac{1}{2}(.28) \cdot 14\right) = 10.085F$$

$$R_h = A/W_p = 10.08/(28+1) = 0.35$$

$$V = 1.49(R)^{2/3}(S)^{1/2}/n = 1.49(.35)^{2/3}(.0061)^{1/2}/.017 = 3.39fps$$

$$Q = VA = 3.39(10.08) = 34.17 cfs$$

\* Seville, Unit 7 design show 14 cfs in Calle Vizcaya  
(included offsite flows from worst).

$$\therefore \text{Conservative } Q = 14 + 9 = 23 cfs$$

$$23 cfs < 34.17 cfs \rightarrow OK$$

$$d + V^2/2g = .50 + (3.39)^2/64.4 = .68' \rightarrow OK$$