

613, LOW STRENGTH MORTAR BACKFILL (TYPE 2)  
 (( 45.2' Headwall to Headwall, 24.89 sq. ft. / 27 ) x 2 ) =  
 84 cu. yds.

512, SEALING OF CONCRETE SURFACES (EPOXY URETHANE)

(T), 1'-5" x 8' = 11.333 sf & (F), 8" x 8' = 5.336 sf  
 & (E), 0.945 sf x 2 = 1.890 sf, extensions of box  
 ( 18.559 sf ) x 2 ends = 37.118 extensions

( 22.437 ft x 2' ) x 2 ends = 89.748 inside box

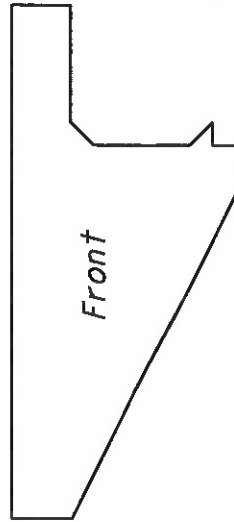
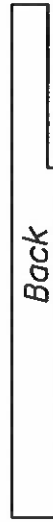
14.667 sf top ( 1/4 ) x 4 = 58.668 sf

17.997 sf back ( 1/4 ) x 4 = 71.988 sf

1.709 sf side ( 1/4 ) x 4 = 6.836 sf

53.289 sf front ( 1/4 ) x 4 = 213.156 sf

Total 477.514 sf / 9 = 53.057 sy



511, CLASS QCI CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING

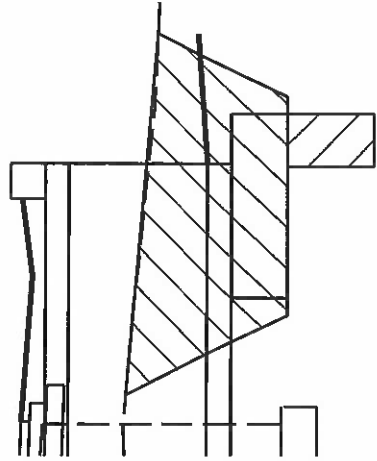
10.000 sf ft. ret. wall, 6.333' ht. / 27 = 2.346 cy  
 10.197 sf ft. ret. wall x 6.333' ht. / 27 = 2.392 cy  
 ( 2.346 + 2.392 ) x 2 = 9.476 cy

511, CLASS QCI CONCRETE, FOOTING

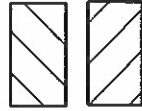
156.111 sf footer base x 1.5' dp. = 8.673 cy  
 43.86 sf cutoff wall x 2.5' dp. = 4.061 cy  
 ( 8.673 + 4.061 ) x 2 = 25.468 cy

511, CLASS QCI CONCRETE, HEADWALL

(9.33 sf headwall x 1.0' h. / 27) x 2 = 0.7 or 1 cy



503, UNCLASSIFIED EXCAVATION



- 2.5 x 1.5 x 29.2 / 27 x 2 = 8 Cu. Yds.

- 33.68 x 29.7 / 27 x 2 = 74 Cu. Yds.

TOTAL = 74 + 8 = 82 Cu. Yds.