

COLVERT:  $\frac{0.40 \times 0.7}{2} \times \frac{4.9}{2.55} = 0.58$

$\frac{1}{2} \times \frac{1.05}{1.05} \times \frac{1.9}{8.5} = 0.12$   
 $\frac{1.05 \times 10.3}{2} \times \frac{1.2}{1.2} = 10.85$

$\frac{1}{2} \times \frac{1.05}{1.05} \times \frac{4.1}{1.8} = 1.2$

Trench Excavation of Earth:  
 Stone pad @ outlet:  $2.4m \times 3.9m \times 1.5m$  = 14.0cm  
 $(2.4m \times 3.9m \times 0.3) \times 1.5 = 4.2cm$  } 18.2cm  
 Sluice Pad @ Julet =  $3.2m(L) \times 3.4m(W) \times 0.75m(D) = 8.2cm$

COLVERT: avg depth =  $(0.45 + 0.95 + 1.35 + 1.25 + 0.45 + 0.3) / 6 = 0.792m$

Length = 21.95m

width = 2.11m

Vol =  $0.792m \times 21.95m \times 2.11m = 36.7cm$

Total =  $54.9cm$  (63.3cm)

WLF 12-12-06

CHECKS  
w/36.7

5" Stone:  $2.4m \times 3.9m \times 1.5m$  = 14.0cm

900mm CPEP: 21.95m

Geotextile under stone fill:  $1.8m \times 7.5m = 13.5cm$

Granular Backfill for structures:  $21.95m \times$  avg depth  $(\frac{0.12 + 1.2 + 1.2 + 1.2 + 1.2}{5}) \times 2.11m$  width = 33.3cm

Julet Sluice Fill Type II  
 $5.8m(L) \times (\frac{1.8 \times 5.0}{2})m(W) \times 0.3m(H) = 5.9cm$

Geotextile under Sluice fill  
 $5.8m(L) \times 3.4m = 19.7cm$  say 20cm

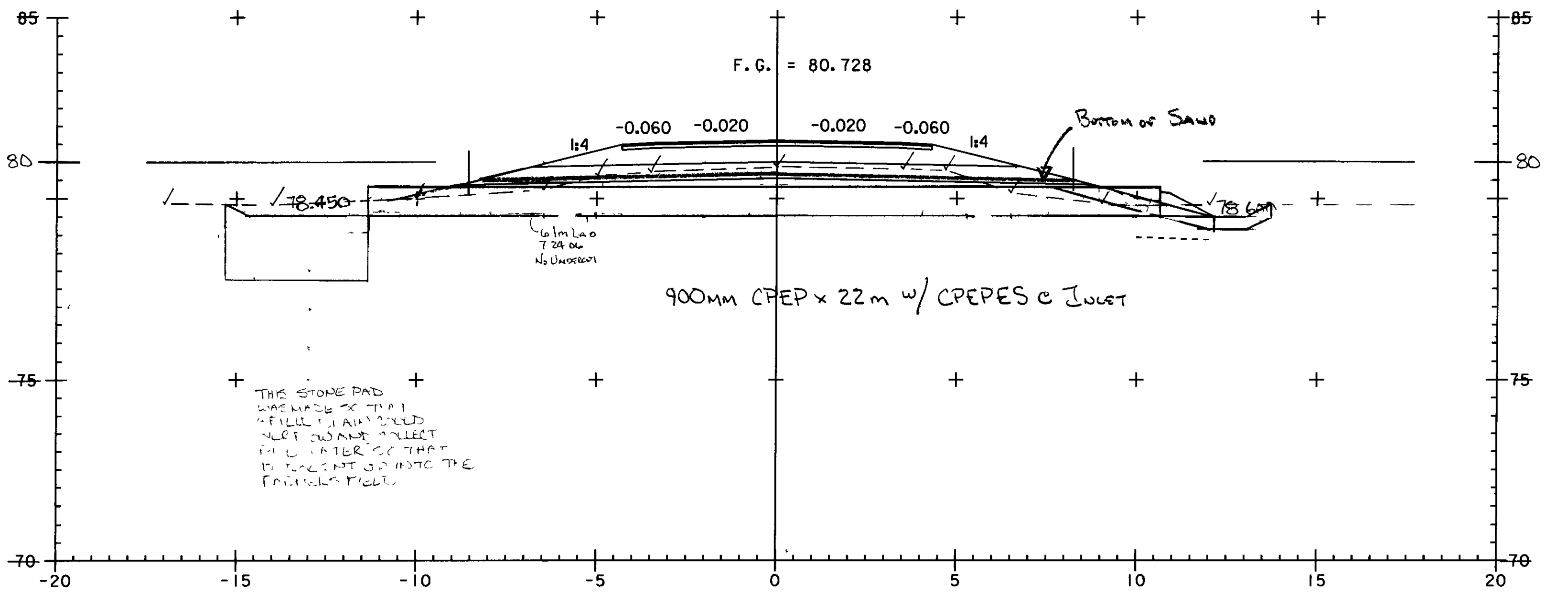
GRANULAR:  $\frac{0.12}{2} \times \frac{3}{2.55} = 0.16$

$\frac{1.05}{2} \times \frac{12.12}{12.12} \times \frac{16.5}{2.11} = 17.3$

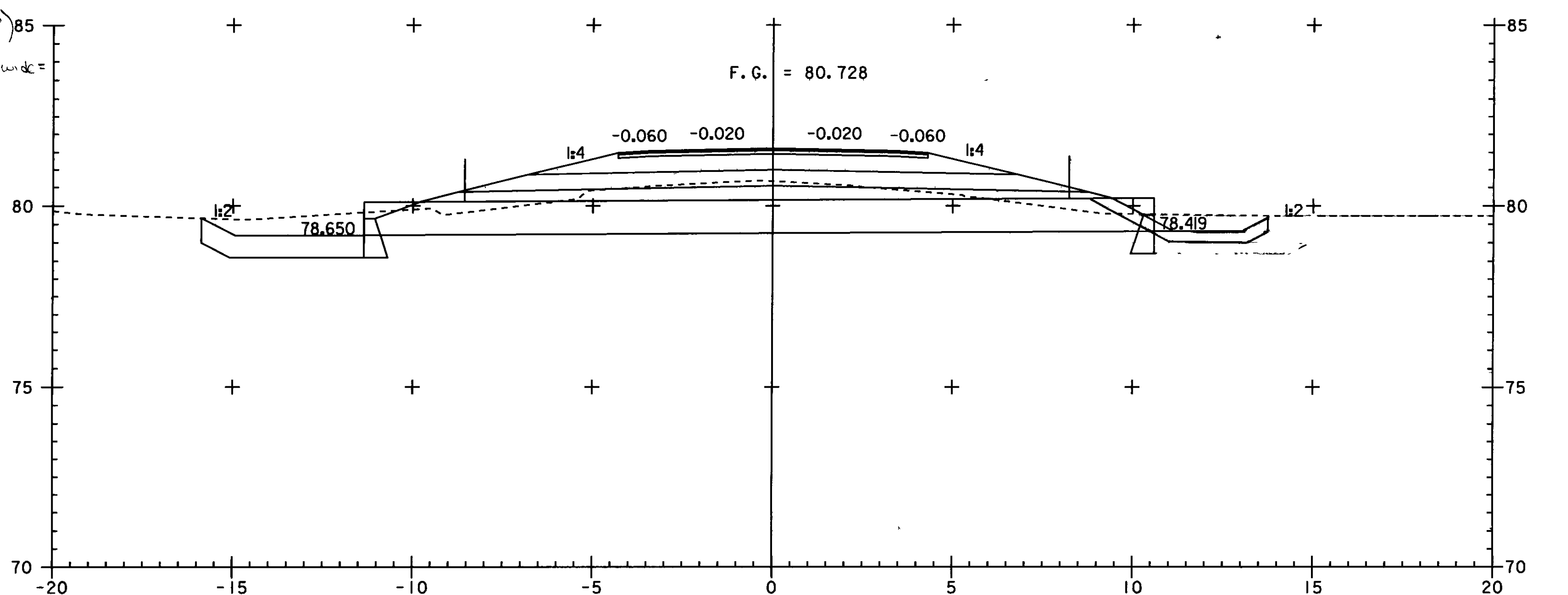
$\frac{1.05}{2} \times \frac{2.4}{1.8} \times \frac{1.3}{1.8} = 0.8cm$

Total = 20.2  
 50cm  
 42.6cm  
 WLF 12-12-06

T. B. =  
 P. 15 =



5+156.000  
 ASKEW = 90°00'00"  
 FIELD PROFILE



5+156.000  
 ASKEW = 90°00'00"  
 DESIGN SECTION