TRENCH EARTH - NEW CULVERT

$\left(\frac{.00+0.16}{2}\times 09\right)+\left(\frac{0.16+1.5}{2}\times 13\right)+(1.5\times 11.8)+\left(\frac{14.00}{2}\times 2\right)+\left(\frac{00+02}{2}\times 25\right)-20.99$

$20.99\,m^2\times 1.78m = 37.4m^3$

FOR STONE FILL & OUTLET
$3m(L)\times 8m(w)\times 0.6m(D) = 14.4cm$ WEF 10.2.06

GRAN BACKFILL FOR STRUCTURES

EXIST CULVERT AREA = $8.5m^3$

NEW CULVERT

$1.78m(w)\times 1.00m(H)\times 15m(L)_{AVE} = 267m^3$

$352m^3$

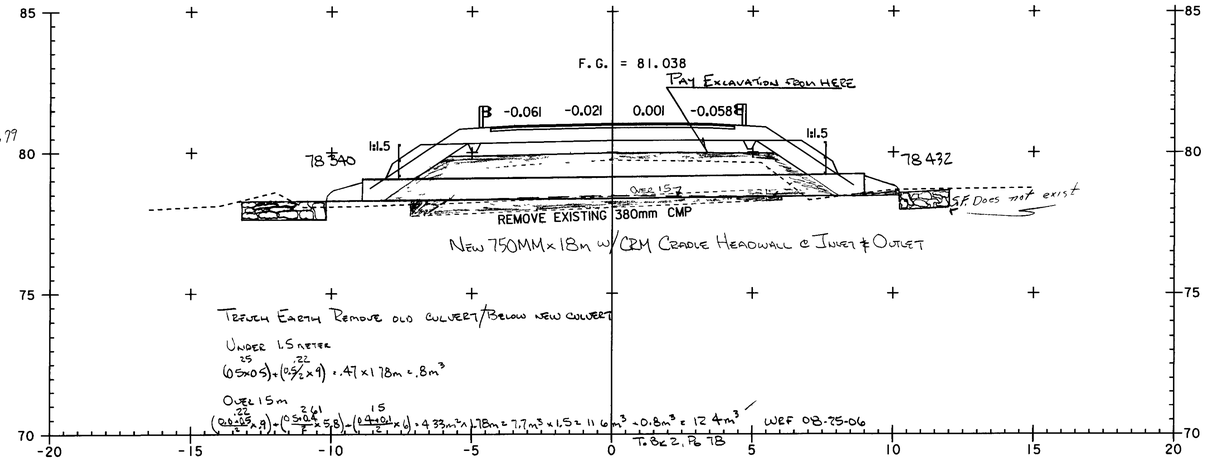
WEF 08-25-06
DEW 11-07-06

STONE FILL & OUTLET

$3m(L)\times 8m(w)\times 0.6m(D) = 14.4cm$

GEOTEXTILE FOR STONE FILL

$42m(L)\times 9.2m(w) =$ 38.6sm



2+847.000
ASKEW = 82°04'47" LT
FIELD PROFILE

TRENCH EARTH

$\left(\frac{0.7+0.8}{2}\times 7.5\right)+\left(\frac{0.8+1.5}{2}\times 1.0\right)+(1.5\times 14.6)-\left(\frac{1.5+0.8}{2}\times 1.0\right)+\left(\frac{0.8+0.7}{2}\times 48\right) = 33.3m^2$

$33.3m^2\times 1.28m = 42.6m^3$

OVER 1.5m

$\left(\frac{0.0+1.0}{2}\times 1.5\right)+\left(\frac{1.0+0.9}{2}\times 11.7\right)+\left(0.5\times\frac{1}{2}\times 14\right) = 12.5m^2\times 1.28m = 16m^3\times 1.5 = 24m^3$

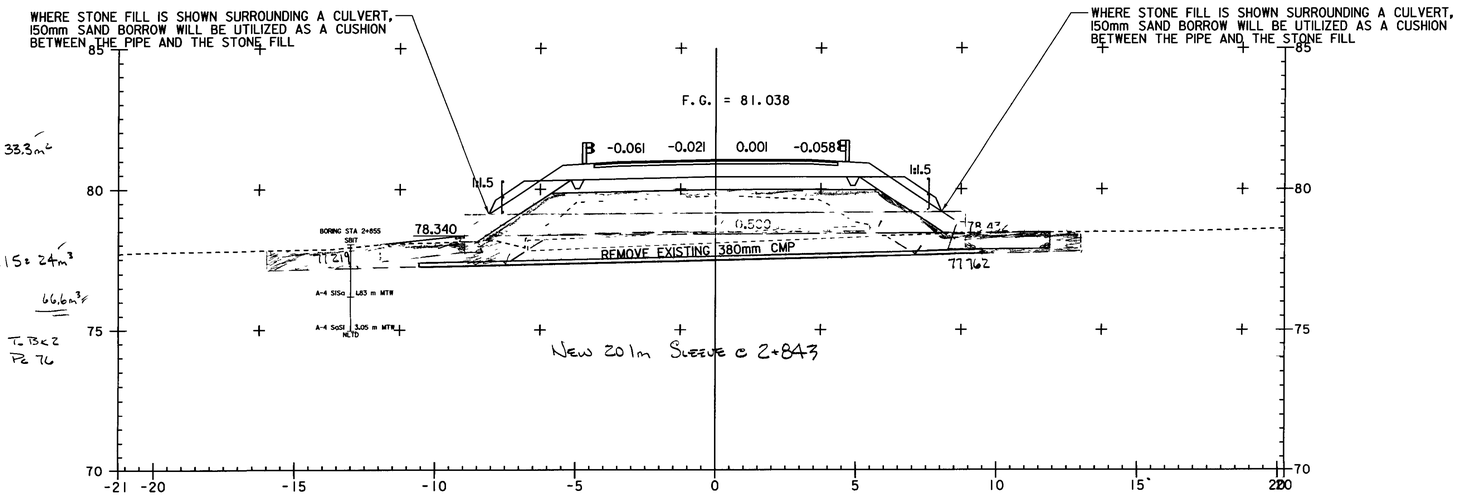
$66.6m^3$

T. Bk 2 Pg 76

GRANULAR BACKFILL FOR STRUCTURE

$1.28m\times 2.0m(L)\times 0.5m(H) = 12.8cm$

WEF 8.25-06
DEW 11/07/06



2+847.000
ASKEW = 82°04'47" LT
FIELD PROFILE

DRAINAGE SHEET # 10

467-Drainage