

ALIGNMENT:

TR-SUPE90 (RAMP C4)

TIE IN CROSS SLOPE = +1.04% (FROM CHESTER PROFILE)

NC = +1.6%

W = 24'

$u_g = 40$  MPH

$G_{(40)} = 172:1$

divided roadway  $\rightarrow b_w = 1$

+1.04% TO BE ACHIEVED UNTIL STA. 1100+50.00

$$L = \Delta G * b_w * W$$

$$L = (0.016 - 0.0104)(172)(1)(24)$$

$$L = 23.1168'$$

$$\text{USE } L = 23.5'$$

$$\begin{array}{r} 1100.50 \\ + \quad 23.5 \\ \hline 1100+73.50 \end{array}$$

END ROTATION @ STA. 1100+73.50

**BURGESS & NIPLE COMPUTATION SHEET**

JOB NO. PID 25795 JOB NAME CIB - TRENCH SHEET 1 OF 1 SHEETS  
SUBJECT RAMP C4 TIE-IN PREPARED BY DCL DATE 01/27/10  
SCALE N/A CHECKED BY ALR DATE 2/1/10