

BRANCH REINFORCEMENT WORK SHEETS

Prepared by
Pipe Fabrication Institute Engineering Committee



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REQUIRED AND AVAILABLE REINFORCEMENT AREA :

$$A_f = (t_{mh} - A_h) \times d_1 \times (2 - \sin \alpha) = \text{sq.in.}$$

$$A_2 = (2 \times d_2 - d_1)(T_h - t_{mh}) = t_f =$$

$$A_3 = \frac{4(T_b - t_{mb})}{\sin \alpha} = A_3 = (t_f)^2 =$$

$$A_f + A_2 + A_3 = \text{sq.in. available.} \quad \text{Additional Required: Yes } \square \text{ No } \square$$