CALCULATION OF TOTAL DYNAMIC HEAD

Hydro jet or booster line return PIPING

INLET #_____ PROVIDE CALCULATION SHEETS FOR INLET WITH MOST RESTRICTION **EQUIV. LIN. FT.** **FT. OF HEAD**

SECTION A (ALL PIPE AND FITTINGS FROM THE FITTING BY THE POOL OR FROM THE PREVIOUS INLET TEE OR ELL)

_____ lineal feet of _____ inch diameter pipe……_____

_____ ell(s) 45 _____ inch, each equivalent to _____ feet of straight pipe – total……_____

_____ ell(s) 90 _____ inch, each equivalent to _____ feet of straight pipe – total……_____

_____ tee(s) _____ inch, each equivalent to _____ feet of straight pipe – total……_____

_____ adapter(s) _____ inch, each equivalent to _____ feet of straight pipe – total……_____

_____ reduction(s) _____ inch to _____ inch-loss in feet of head……_____

_____ enlargement(s) _____ inch to _____ inch-loss in feet of head……_____

_____ _____ valve(s) _____ inch, each equivalent to _____ feet of straight pipe – total……_____

_____ _____ _____ inch, each equivalent to _____ feet of straight pipe – total……_____

Equivalent length of piping, section A—total (add all equivalent lineal feet for this section)……_____

Loss in feet of head due to friction in _____ feet of _____ inch pipe at _____ gpm……_____

Velocity through individual skimmer piping—section A _____ feet/sec.

SECTION B (ALL PIPE AND FITTINGS FROM THE INLET TEE OR ELL TO POOL WALL)

_____ lineal feet of _____ inch diameter pipe……_____

_____ ell(s) 45 _____ inch, each equivalent to _____ feet of straight pipe—total……_____

_____ ell(s) 90 _____ inch, each equivalent to _____ feet of straight pipe—total……_____

_____ tee(s) _____ inch, each equivalent to _____ feet of straight pipe—total……_____

_____ adapter(s) _____ inch, each equivalent to _____ feet of straight pipe—total……_____

_____ reduction(s) _____ inch to _____ inch—loss in feet of head……_____

_____ enlargement(s) _____ inch to _____ inch—loss in feet of head……_____

_____ _____ valve(s) _____ inch, each equivalent to _____ feet of straight pipe—total……_____

_____ _____ inlet orifice _____ inch—loss in feet of head……_____

Equivalent length of piping, section B—total (add all equivalent lineal feet for this section)……_____

Loss in feet of head due to friction in _____ feet of _____ inch pipe at _____ gpm……_____

Velocity through inlet piping—section B _____ feet/sec.

NOTES:

1. Use the actual flow through the section A for section A gpm (step 8 flow times # of inlets being fed by section B). Use the flow from step 8 as the gpm from section B.