CALCULATION OF TOTAL DYNAMIC HEAD

Booster Pump/ System FINAL CALCULATIONS

SUCTION LIFT (vertical distance in feet from center of pump to water level—negative value if pump below water level)…_____

TOTAL DYNAMIC HEAD (TDH)

TDH, clean filter (add figures in **FT. OF HEAD** column—**all pages**, including **SUCTION LIFT** above)……………………….._____

………………………………………………………………………_____…....………_____

TDH, actual (calculated from actual vacuum and pressure gauge readings)……………_____

PUMP

Quanity _____ Manufacturer_____ Model #_____ _____

Booster pump for slide/flume: YES/NO   # Of Slides/Flumes_____   # of Booster Pumps_____
Booster Pump for Waterfall: YES/NO # Of Waterfalls_____   # of Booster Pumps_____
Booster pump for water attraction: YES/NO # Of Water Attractions_____   # of Booster Pumps_____
Booster pump for Hydrotherapy jets: YES/NO # Of hydro jet systems_____   # of Booster Pumps_____
Booster Pump for Bubblers: YES/No # Of Bubbler Systems _____   # of Booster Pumps

_____   _____
           Signature of EHS   Date

TURNOVER
, Design Flow booster #1(from booster worksheet,).......……. _____velocity ------GPM from pump curve
  Design Flow booster #2 (from booster worksheet)…………_____velocity-------GPM from pump curve
, Design Flow booster #3 (from booster worksheet)………… _____ velocity--------GPM from pump curve
  Design Flow booster #4 (from booster worksheet)………… _____ velocity--------GPM from pump curve
  Design Flow booster #5 (from booster worksheet)…………_____velocity_____GPM from pump curve
, actual (calculate from above gpm, actual, converting vac, and psi readings)………….._____ velocity booster #1
                                                                                 _____ velocity booster #2
                                                                                 _____velocity booster #3
                                                                                 _____velocity booster #4
                                                                                 _____velocity booster #5

NOTES:

1. find pump on pump curve that will give flow maximums for each pump used and gpm at a given TDH .
2. Velocity = .32 X GPM -:- pipe in square inches
3. to find sq inches (½ the diameter X2) x 3.14 = square inches
            OR   (r X r) x 3.14= square inches