

Appendix 10-A
Symbols and Acronyms

Chapter 10

Symbols

<u>Symbol</u>	<u>Definitions</u>	<u>Units</u>
A	Minimum distance from back wall to trash rack	feet
AHW	Allowable high water	feet
B	Maximum distance between a pump and the back wall	feet
bhp	Brake horsepower	Hp
C	Average distance from floor to pump intake	feet
D	Pump diameter	inch
DHW	Design high water elevation	feet
e	Efficiency	-
H _f	Friction head	feet
H _l	Losses through fittings, valves, etc.	feet
H _s	Maximum static head	feet
H _t	Storage depth	feet
H _v	Velocity head	feet
H _x	Depth for storage volume	feet
INV	Inlet invert elevation	feet
L	Length of wet well	feet
N	Number of equal size pumps	-
Q	Flow	cfs
Q _i	Inflow	cfs
Q _p	Total capacity of all pumps peak discharge rate	cfs
S	Minimum submergence at the intake	feet
t _c	Minimum allowable cycle time	s
TDH	Total dynamic head	feet
V _t	Total cycling storage volume	cf
V _x	Individual pump cycling volumes	cf
W	Minimum required distance between pumps	feet
whp	Water horsepower	Hp
Y	Minimum level floor distance upstream of pump	feet
γ	Density of fluid	lb./cf

Acronyms

ASTM	American Society for Testing and Materials
ANSI	American National Standards Institute
AWG	American Wire Gage
FHWA	Federal Highway Administration
HGL	Hydraulic Grade Line
MDOT	Michigan Department of Transportation
MIOSHA	Michigan Occupational Safety and Health Act
NEC	National Electrical Code
NPSH	Net Positive Suction Head
SBP	Standby Power
TDH	Total Dynamic Head