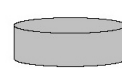
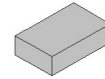


Tideflex® Mixing System (TMS) for Water Storage Tanks & Reservoirs Design Data Form



Circular



Rectangular



Standpipe



Elevated

I. GENERAL INFORMATION

Reservoir/Tank Name:		Advertises On: Bids On: <div style="background-color: #add8e6; height: 15px; width: 100%;"></div>
Project Location:		

Water Utility/Owner Name:		
Owner Contact:		
Email:		
Address:		
City:		State:
Zip:		Country:
Phone:		Fax:

Consulting Engineering Firm:		
Engineer Contact:		
Email:		
Address:		
City:		State:
Zip:		Country:
Phone:		Fax:

II. SYSTEM INFORMATION

INSTALLATION: New Tank Existing Tank		SCADA: Tank on SCADA? Yes No		WATER SOURCE: Surface Water Reclaimed Water Ground Water	
OPERATION: Distribution System Reservoir Clearwell Combination		MODE: Fill-then-draw Simultaneous Fill and Draw		PRIMARY DISINFECTION: Chlorine UV Chlorine Dioxide Chloramine Ozone None	
HIGH WATER LEVEL SHUTOFF: By Altitude Valve None, Floats on System By Pressure Switch				SECONDARY DISINFECTION: Chlorine Chloramine None Chlorine Dioxide	

III. RESERVOIR / TANK DATA (Provide tank drawings if available. See nomenclature on page 4.)

TYPE OF RESERVOIR / TANK:		Tank Manufacturer or Basis of Design:			
Circular Reservoir	Irregular Shape	At Grade	Semi-buried		
Rectangular Reservoir		Buried			
Standpipe					
Elevated Tank	Dry Riser	Sphere/Spheroid	Composite	Hydropillar	
	Wet Riser	Wet Riser Diameter	ft in m		

TANK DETAILS: (Provide tank drawings if available. See nomenclature on page 4.)

VOLUME:		MG	Gallons	m ³	Megaliters
Circular Reservoir / Standpipe		Elevated Tank		Rectangular Reservoir	
	ft m		ft m		<input type="checkbox"/> ft m
Tank Diameter		Bowl Diameter		Length x Width	x
Depth to Maximum Operating Level		Head Range		Depth to Maximum Operating Level	
Depth to Overflow		Height from Foundation to Overflow		Depth to Overflow	
		Height from Foundation to Maximum Operating Level		Number of Cells	
Bottom Elevation		Foundation Elevation		Bottom Elevation	

TANK MATERIAL: (Select multiple if alternates for new tank.)

Welded Steel	Bolted Steel (Concrete Floor)	Bolted Steel (Steel Floor)	Riveted Steel
Prestressed Concrete	Post-tensioned Concrete	Cast-in-place Concrete	
Composite (Elevated)	Earthen Lined		

TYPE OF ROOF / COVER:

Fixed Roof	→ Internal Roof Supports?	Yes	No	Floating Cover	None, Open Reservoir
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IV. INLET / OUTLET PIPING (For new tanks that operate in fill-then-draw and for existing tanks that have a common inlet/outlet pipe, complete the "Inlet" pipe data. The TMS separates inlet/outlet inside the tank.)

Common Inlet/Outlet Pipe		Separate Inlet and Outlet Pipes		
Inlet Diameter	in mm	Material:	Penetration:	Bottom Sidewall Top
Outlet Diameter	in mm	Material:	Penetration:	Bottom Sidewall
Outlet have Silt Stop?		Yes No →	Fixed Pipe Extension	Removable
Does tank have a dedicated drain pipe?		Yes No		

V. HYDRAULIC DATA

Minimum Fill Rate:		gpm lps	Pumped Gravity
Maximum Fill Rate:			
Maximum Draw Rate:		gpm lps	Pumped Gravity
Peak Demand + Fire Flow (If Applicable)			

VI. TANK FLUCTUATION / TURNOVER DATA (With one of the methods below, provide data on the typical, or expected, daily fluctuation of tank levels in summer and winter, if different. *See nomenclature, page 4)

	Method 1		Method 2	Method 3
	Maximum Operating Level*	Minimum Operating Level*	% (Percent)	Volume Exchange
Summer	ft	ft		Gallons/Day
Winter	m	m		Liters/Day

VII. REFROFIT INFORMATION





Year Tank Constructed:		
Date of Last Inspection:		
Date of Last Rehab/Repaint:		
Next Scheduled Rehab:		
Internal Baffles?	Yes	No
Ice Formation?	Yes	No
Water Temperature Range	Minimum	
°F °C	Maximum	
Size of Largest Roof Hatch	Dia.	Sq.
Size of Largest Shell Hatch	Dia.	Sq.
Rechlorination/recirculation systems installed?	Yes	No
Are sampling taps installed?	Yes	No
Samples been taken at different locations/depths inside the tank?	Yes	No
Has a tracer study, CFD, or scale model been done?	Yes	No

VIII. WATER QUALITY ISSUES

Identify Water Quality Issues		
Loss of Residual		
Disinfection By Products >	TTHM	HAA5
Coliform Bacteria		
Nitrification		
Elevated Heterotrophic Plate Count (HPC)		
Biofilms		
Taste and Odor		
Increased pH		
Color		
Turbidity		
Identify Known/Suspected Causes:		
Poor Mixing		
Short-circuiting		
Poor Turnover / Tank Fluctuation		
Long Detention Time		
Thermal Stratification		
High Levels of Organics		

IX. OVERFLOW PIPE PROTECTION

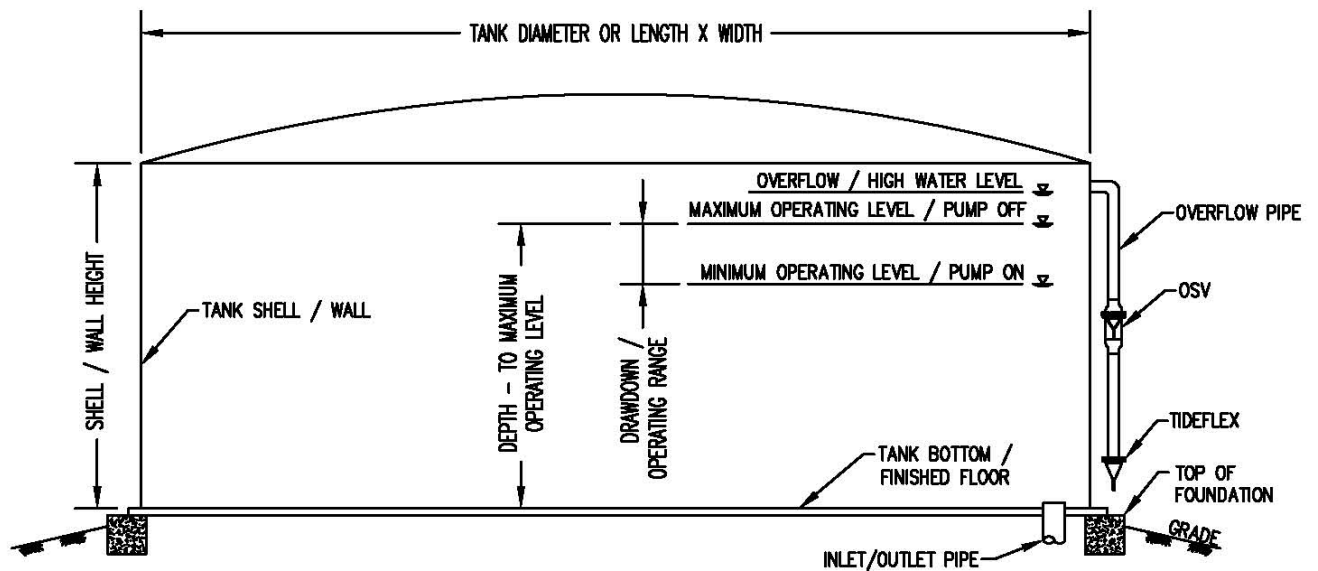
Check method used to prevent birds, rodents, cold drafts, etc., from entering tank through overflow pipes.

Overflow Pipe Size:		in	mm
Dechlorinating Overflow Security Assembly (DOSA)	Tideflex Valve	Overflow Security Valve (OSV)	Screen Flap Valve
			

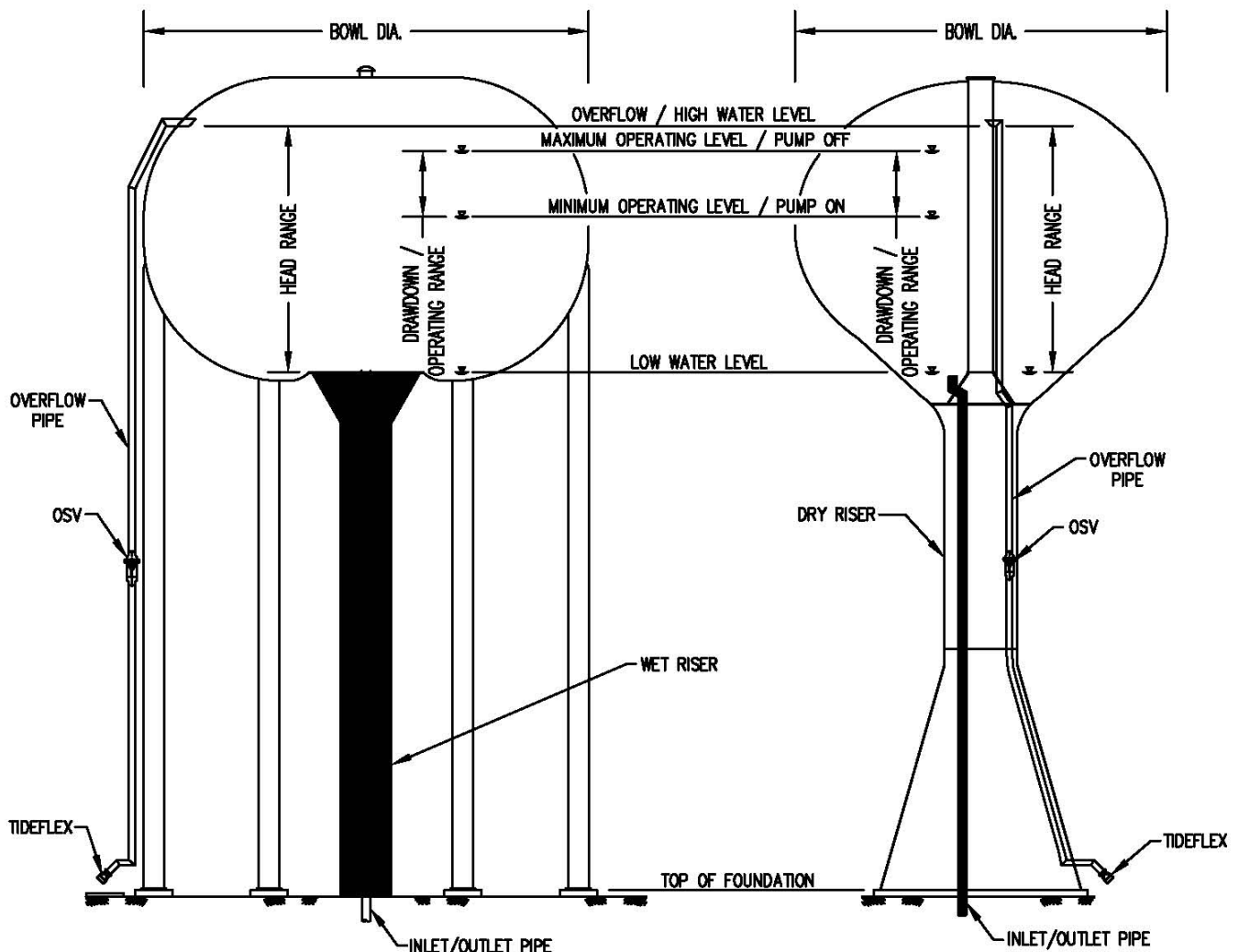
X. COMMENTS

PLEASE E-MAIL OR MAIL COPIES OF TANK DRAWINGS AND INSPECTION REPORTS/PHOTOS TO:

XI. TANK NOMENCLATURE



CIRCULAR AND RECTANGULAR RESERVOIRS AND STANDPIPES



WET RISER ELEVATED TANK

DRY RISER ELEVATED TANK