STORMSwitch

STORMController

PUMPS

AUTOMATED VALVES

ATTITUDE SYSTEMS, LLC.

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WHAT DO I NEED TO KNOW TO ORDER?

1) How do I want to divert a Storm Event?
Turn a pump on, Turn a pump off, Open a valve, Close a valve, a combination of the above

2) How much water do I need to divert?
How many GPM/HP pump do I need, How big is the pipe the valves are attached and what kind of pipe, PVC, Ductile Iron....

3) Where am I going to mount the STORMController?
Indoors, Outside on a wall How far from the STORMSwitch How far from the diversion (Pump/Valve). So it is in close proximity to the diversion as well as the STORMSwitch.

4) Where am I going mount the STORMSwitch?
Top of a Building, On a pole, How far away from the STORMController? In an open clear area so rain/storm water can fall un-obstructed.

5) How do I want to define a Storm Event?
1/10th of 1" in 30 minutes, ½" in 1 Hour……..

6) Do I want to automatically reset to the normal condition after a Storm Event?
2 Hours after the last 100th of an inch of rainfall, 24 Hours after the last 100th of an inch of rain fall. Am I going to only use the manual reset after a Storm Event?

7) What power supply is available for the STORMController, Valves or Pumps?
120 VAC, 240 VAC, 480 VAC At what amps?

8) What special needs or comments does my application have?
I need to close a 4" valve to my clarifier and open an 18" valve to the Storm Drain at the same time.
I have an existing 3 phase pump I need to turn off when a Storm event occurs.
I want to turn on a pump 12 hours after the storm event for irrigation.
I need to use AWWA valves.
I want a 24 VDC 100% duty cycle actuator.
I need to trigger the storm event off of flow rather than rain fall.

Automatic StormWater Diversion Systems

AIRPORTS

STADIUMS

OPEN AREAS

MAINTENANCE YARD

PARKING / STORAGE

ATTITUDE TECHNOLOGY, INC.

What is an ASWDS?
What can an ASWDS do?

The intent of an Automatic StormWater Diversion System is to stop flow of clean StormWater from flowing to a place other than intended

This could include clean Storm Water in:

Sanitary Sewer System
Water Processing Facility
Any place that may flood or retain undesired water

"Excess clean storm water in these unintended areas is expensive to process and can cause hydraulic overloading"

A typical StormWater diversion system consist of three main components:

(1) STORMSwitch

(2) STORMController

(3) STORMDiverter

The **(1) STORMSwitch** senses when a storm occurrence has taken place (typically when 1/10th of 1" of rain or stormwater has fallen but can be variable in both amount of rainfall and duration) and signals the Controller. The **(2) STORMController** takes the signal from the Collector/Switch and changes to storm mode. Storm mode is indicated by indicating lights on the STORMController box from *GREEN to RED*, at the same moment the STORMController changes the operating state of the **(3) STORMDiverter** E.G. turning sewer/clearifier pump off, turning storm drain pump on, closing valve to sanitary sewer, opening valve to storm drain..... or any combination there of.

Typical facilities that would benefit from an Automatic StormWater Diversion System would include:

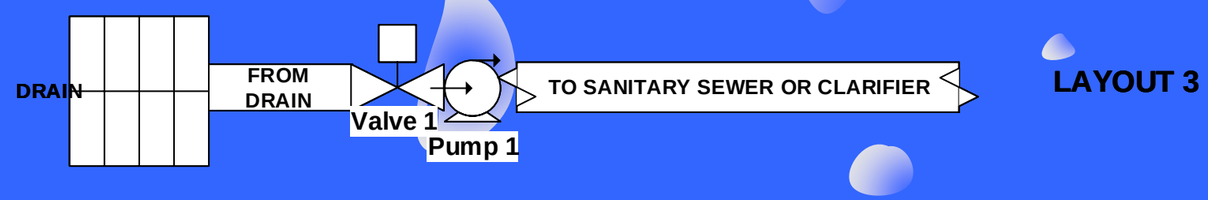
Airports – Seaports – Equipment Wash Down Areas – Equipment Storage areas – Stadiums – Manufacturing Facilities – Parking Lots – Loading Dock – Amusement Parks – Refineries – Maintenance Yards – Truck Wash Racks

*Most large open areas that are **a)** susceptible to rainfall **b)** have drainage to treatment facilities **c)** have drainage to storage or retention facilities, are all sites that would benefit from an ASWDS.*

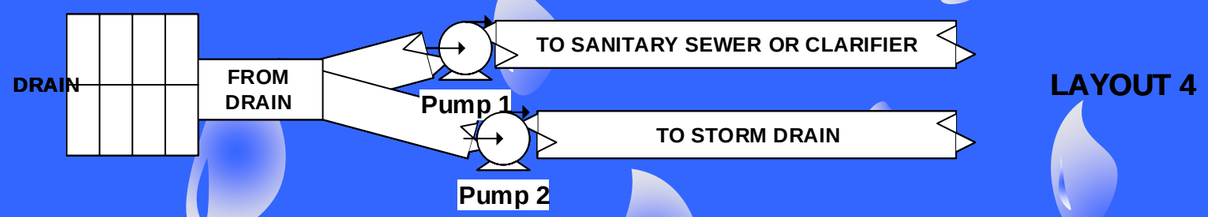
Automatic StormWater Diversion Systems
LAYOUTS

LAYOUT 1

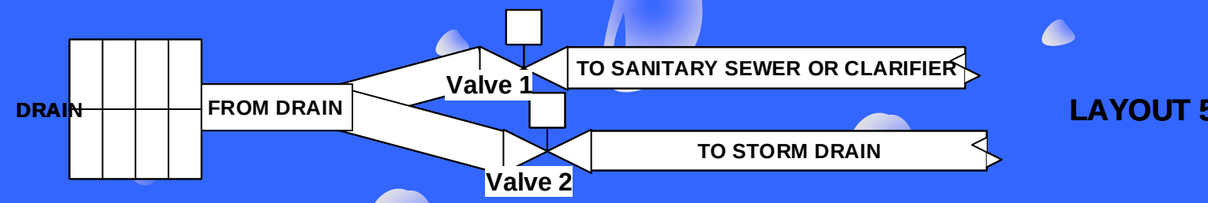
LAYOUT 2



LAYOUT 3



LAYOUT 4



LAYOUT 5