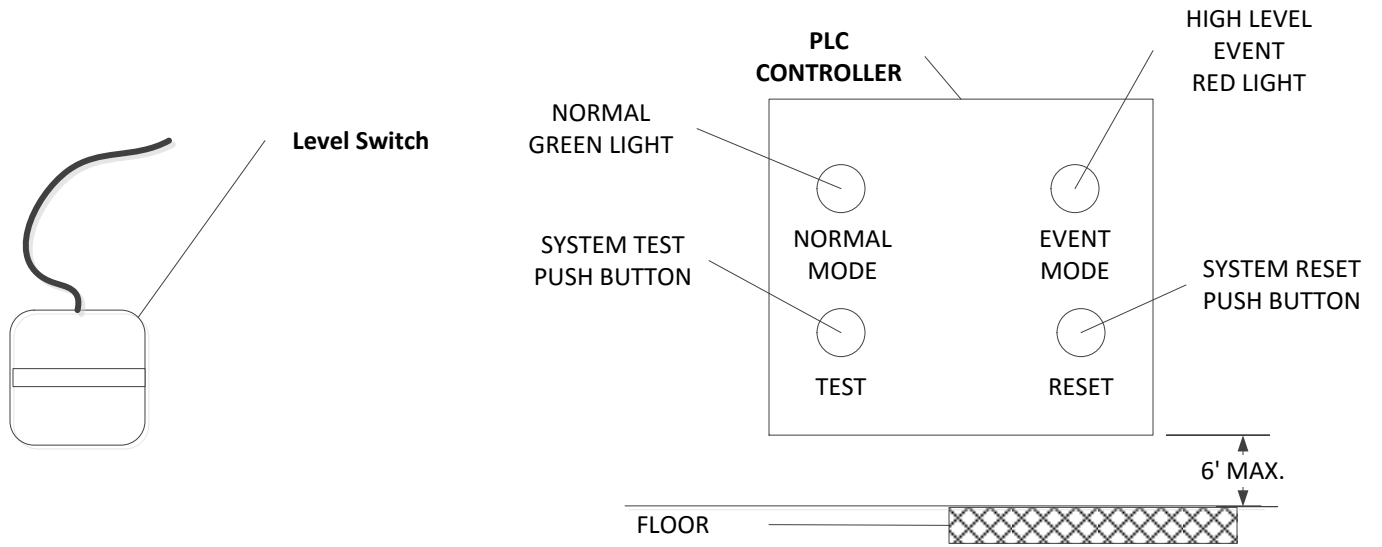
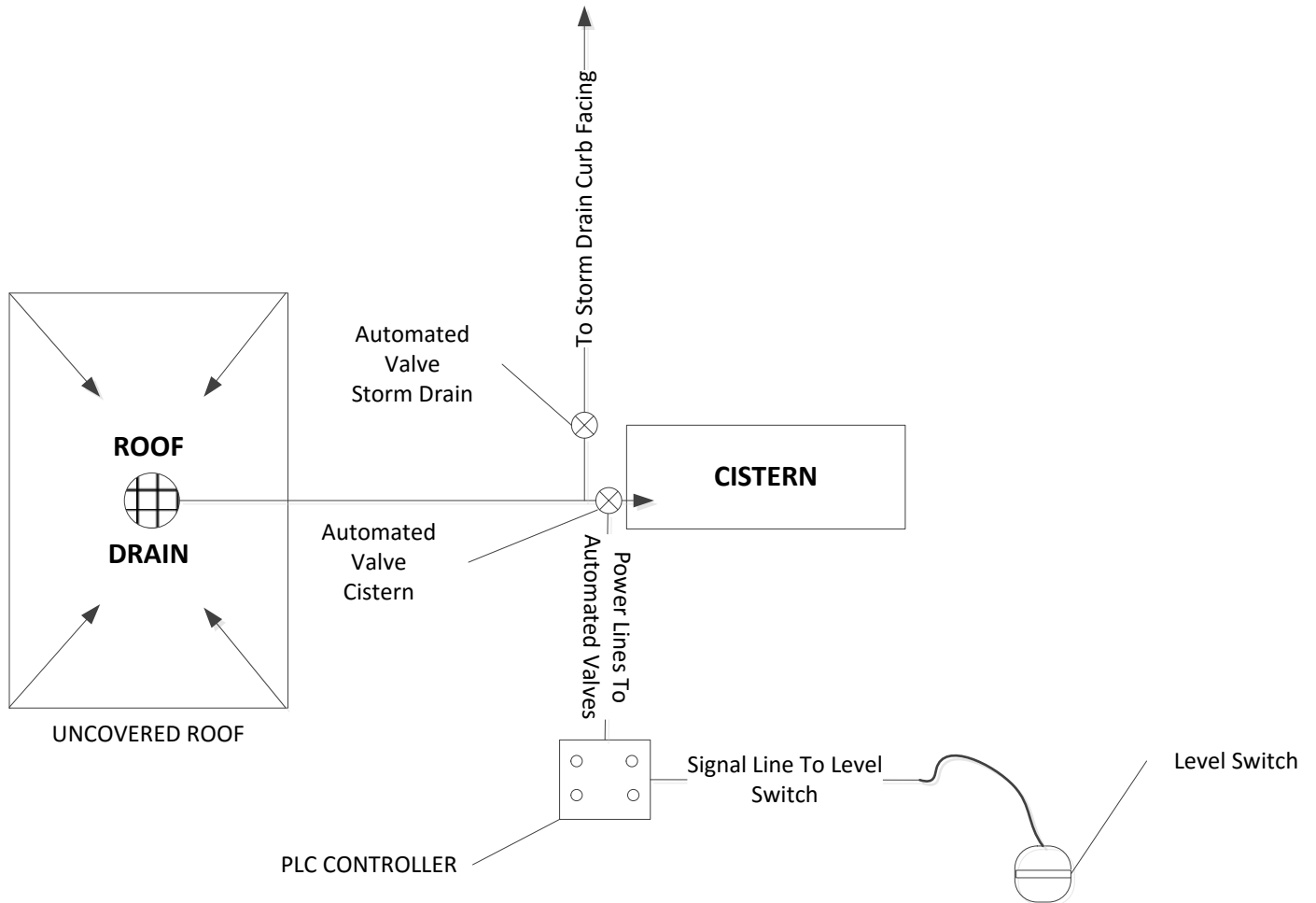


# APPROVED FLOW ACTIVATED SWITCH & PLC CONTROLLER



## SYSTEM LAYOUT



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REV 0	<b>AUTOMATIC STORMWATER DIVERSION SYSTEM</b>	9/15/2015	STANDARD PLAN L (2) 2-WAY AUTOMATED VALVE SHEET 1 of 2
TITLE APPROVED			

## NOTES

1. *NORMAL CONDITION THE UNCOVERED ROOF WILL HAVE ACCESS TO THE CISTERN AND NOT TO THE STORM DRAIN.*
2. *EVENT MODE THE LEVEL SWITCH (ONCE ACTIVED WHEN CISTERN IS FULL) WILL PROVIDE A SIGNAL TO THE PLC. THE PLC SIGNALS CLOSE TO THE CISTERN VALVE AND OPEN TO THE STORM DRAIN VALVE. THE UNCOVERED ROOF WILL NOW DRAIN TO THE STORM DRAIN. ONCE THE LEVEL IN THE CISTERN DROPS TO THE NORMAL LEVEL, THE STORM DRAIN VALVE WILL CLOSE AND ACCESS TO THE CISTERN IS REOPENED.*
3. *THE HIGH AND LOW LEVELS OF THE LEVEL SWITCHES WILL BE PRE SET.*
4. *VALVES CONFIGURED AS CISTERN INLET NORMALLY OPEN AND STORM DRAIN NORMALLY CLOSED. DURING EVENT MODE THE VALVE CONFIGURATIONS WILL CHANGE PLACE CLOSING ACCESS TO THE CISTERN AND OPENING ACCESS TO THE STORM DRAIN .*
5. *THE VALVES WILL ALSO HAVE A PROVISION TO AUTOMATICALLY FULLY CLOSE AND THEN FULLY OPEN AT LEAST EVERY 7 DAYS SHOULD THEY NOT OTHERWISE BE EXERCISED BY HIGH LEVEL EVENT OR TEST EXERCISING TO KEEP THE VALVES AND ACTUATORS IN GOOD RUNNING ORDER.*
6. *THE CONTROLLER WILL INDICATE BY CONTINUALLY BLINKING LIGHTS SHOULD THE AUTOMATED VALVES EVER BECOME DISABLED AND NOT REACH ITS INTENDED POSITION.*
7. *THE AUTOMATED VALVES MUST HAVE A MANUAL OVERRIDE INCASE OF LOSS OF POWER*
8. *PLC SHALL AUTOMATICALLY RESTART UPON RESTORATION OF ELECTRICITY AFTER A POWER OUTAGE.*

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