First flush/wash piping is calculated at 10 gal/1000ft², eccentric fitting is utilized to reduce to automation valve size.

Conveyance system drains to underground tank to percolate into the aquifer or utilized for irrigation.

This 1” valve closes when the rain sensor activates, this allows the first flush to fill, seating a ball on the eccentric fitting allowing filling of the tank. At a set time after the rain event, the 1” valve opens to drain the conveyance system, converting conveyance system from wet to dry.

Plan View from above

Conveyance Piping Diagram & Details

Benners Residence
260 Meadowlark Lane
Highland Village, TX

4” Schedule 40 PVC Conveyance line piping below grade with fall to tank

Typ. downspout locations 4” sch. 40 PVC to guttering, attached with ½” allthread and galvanized split ring clamps. Filtration cover at guttering to 400 micron.

Tank tie-in, utilizing gravity 4” PVC conveyance pipe from below grade, into the top of the tank.

Overhead or “dry” conveyance system, secondary rainwater supply to tank.

Filtration cover at guttering to 400 micron.