

## 6.0 Cistern

### **6.6 CISTERN GENERAL SPECIFICATIONS**

#### **CONSTRUCTION NOTES**

1. The contractor shall verify all information prior to installation including elevations and locations of existing utilities.
2. The contractor shall notify the engineer immediately if any field conditions differ materially from those represented on these drawings and the specifications or if, in the contractor's opinion, said conditions conflict with the designs shown hereon.
3. The contractor shall have a pre-construction meeting with the engineer prior to any work on site.
4. The contractor shall avoid disturbing the existing area. Any disturbance to sidewalks or landscaped vegetation and trees must be coordinated with the property owner.
5. The contractor shall use PVC piping for connection from roof to cistern.
6. All pipes used for connection from rooftop to cistern shall be clear of any clogs or obstructions. All pipes shall be fitted and secured with adhesive in conformance with local plumbing codes.
7. The contractor shall provide a crushed aggregate base or concrete slab with 4,500 psi strength to support the cistern as indicated on the plan.
8. The overflow from the cistern shall connect to the nearest storm sewer catch basin inlet.
9. The contractor shall not make any modifications at the site until consulting with the engineer.
10. The contractor is required to submit shop drawings of all materials and construction methods to the engineer for review and approval prior to purchase and installation.
11. All systems shall be tested by the engineer for leaks and water tight fittings prior to acceptance and payment.
12. The contractor shall use Simpson Strong Ties in connectors for the shade structure.
13. The contractor shall use pressure treated lumber.
14. The contractor shall install concrete footings with a minimum 3-foot depth.
15. The contractor shall not make any modifications at the site until consulting with the engineer.
16. The contractor is required to submit shop drawings of all materials and construction methods to the engineer for review and approval prior to purchase and installation of the gutter.

#### **SPECIFICATION**

1. Crushed aggregate base shall be comprised of DOT No. 57 stone. The alternative concrete pad shall be concrete with 4,500 psi strength.
2. The cistern shall be 220 gallon Norwesco n43870, 130 Gal. Bushman Slimline BSLT130, Bushman Slimline BSLT265e, or approved equivalent.
3. All disturbed areas exclusive of the cistern shall be restored to original conditions by the contractor.
4. The contractor shall provide shop drawings of downspout connections to the cistern for engineers approval prior to installation.
5. The diverter filter box shall be a Rainharvesting® first flush downspout diverter (product code: wdds9x) or equivalent.
6. Overflow shall discharge to a lawn area unless specified otherwise. Stone protection comprised of 3-5-inch diameter washed river stone shall be installed as shown in the detail.

## 6.0 Cistern

### **6.12 SHADE STRUCTURE SPECIFICATIONS**

#### **CONSTRUCTION NOTES**

1. The contractor shall verify all information prior to installation including elevations and locations of existing utilities.
2. The contractor shall notify the engineer immediately if any field conditions differ materially from those represented on these drawings and the specifications or if, in the contractor's opinion, said conditions conflict with the designs shown hereon.
3. The contractor shall have a pre-construction meeting with the engineer prior to any work on site.
4. The contractor shall minimize disturbance during construction. Any disturbance to sidewalks or landscaped vegetation and trees must be coordinated with the property owner.
5. The contractor shall use PVC piping for the connection from the roof to the cistern.
6. All pipes used for connection from the shade structure to the cistern shall be clear of any clogs or obstructions. All pipes shall be fitted and secured with adhesive in conformance with local plumbing codes.
7. The overflow from the cistern shall connect to the nearest storm sewer catch basin inlet.
8. The contractor shall not make any modifications at the site until consulting with the engineer.
9. The contractor is required to submit shop drawings of all materials and construction methods to the engineer for review and approval prior to installation.

#### **SPECIFICATIONS**

1. The contractor shall use Simpson Strong Tie in connectors and strong drive screws for the shade structure.
2. The contractor shall use pressure treated lumber.
3. The contractor shall install concrete footings with a minimum 3-foot depth.
4. The roof panels shall be corrugated PVC or fiberglass panels.
5. The gutter shall have a 6-inch base.
6. The contractor shall only use concrete with 4,500 psi strength.
7. All disturbed areas exclusive of the shade structure shall be restored to original conditions by the contractor.