

SPECIFICATIONS FOR DOUBLE CHECK DETECTOR ASSEMBLY VAULTS

REVISED DECEMBER 2011

1. **SCOPE**

This specification covers vault construction for double check detector assemblies in sizes 6", 8" and 10" for cold water service.

2. **GENERAL REQUIREMENTS**

- a) Except as otherwise modified or supplemented herein, all vaults utilized for double check detector assemblies shall be traffic bearing and the standards for such loading shall apply in the manufacture and installation of the vaults. All vaults will be manufactured in a plant especially designed for the purpose. Vault construction shall be done under strict plant controlled supervision and testing.
- b) These specifications are not specifically written for the design and installation of the vaults, however, the specifications shall apply towards the overall construction of the vaults.

3. **DESIGN REQUIREMENTS**

- a) Vault walls, lids and floors shall be constructed for traffic bearing situations with design loads consisting of dead load, live load, impact and loads due to water table and any other loads that may be imposed upon the vault. Live loads shall be for HS-20 per A.A.S.H.T.O kips.
- b) The vault shall be of concrete with a minimum strength of 4,500 psi in 28days. The vault walls, floor and lid shall be a minimum of 6" thickness.
- c) Reinforcing steel shall comply with ASTM A615 Grade 60, A706 Grade 60 or Grade70. Bar bending and placement shall comply with the latest ACI standards.
- d) A 6" drain hole shall be included within the vault floor and be placed at one end of the vault in accordance with STD. Drawing DD-35-08 and DD-35-09.
- e) Vault lids will be provided with spring assisted opening.
- f) Lids shall be provided with a bolt down mechanism in accordance with STD.DWG.DD-40-39.

San Antonio Water System Material Standard Specifications

100-90

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Approved Manufacturers and Models:

<u>Manufacturer</u>	<u>Model 6" - 8"</u>	<u>Model 10"</u>
American Industrial Pre-Cast	SAWS 4-8-6	SAWS 6-12-6
Dalworth Concrete Products	SAWS 408-6.5	SAWS 612-7
Park Equipment Company	DC 68-SA	DC 10-SA
Hill Country Concrete Products	SAWS 6090	
Capital Precast		

Previous Specification

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JANUARY 1998

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