

~~2-12.05. Valve Boxes. Each valve buried to a depth of 4 feet or less shall be provided with a slide type valve box. Valve boxes shall be cast iron, extension sleeve type, suitable for the depth of cover indicated on the drawings. Only one extension will be allowed with each slide type valve box. Valve boxes shall be at least 5 inches in inside diameter, shall be at least 3/16 inch thick, and shall be provided with suitable cast iron bases and covers.~~

~~Each valve buried deeper than 4 feet shall be provided with a valve box consisting of a cast iron cover and a 6 inch Cast Iron Pipe section. The cover shall be Clay & Bailey "No. 2193 NS", or equal and shall have "water" cast into top. The pipe shaft shall extend from the valve to 5 inches inside the valve box cover.~~

~~All parts of valve boxes, bases, and covers shall be shop painted with the manufacturer's standard coating.~~

~~All valve boxes shall be furnished with a valve box alignment device. The device shall be two-piece, white in color, and of HDPE construction. The two pieces shall lock together beneath the operating nut without requiring removal of the nut and shall not affect valve operation. The device shall be Almar Molded Products, Inc. "BoxLok".~~

2-13. ~~TORQUE LIMITING DEVICES~~

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2-13.01. General. "Torque Limiting Devices" shall be provided for each direct bury butterfly valve furnished.

2-13.02. Data. Descriptive literature shall be furnished which describes the torque limiting device or devices and a copy of the warranty that applies to the torque limiting device. A comprehensive warranty shall be provided for a period of three years.

2-13.03. Torque Limiting Device. The torque limiting device shall make over-torque, in either direction, impossible. The unit shall be preset and designed to release when the torque level exceeds 210 foot pounds on the operating nut, in either direction, opening or closing the valve. The torque unit shall reset automatically when the torque level drops below 200 foot pounds on the operating nut in either direction. The torque limiting device shall be manufactured by Aunspach controls or equal.

2-13.04. Adjustable Torque. The torque level of the unit shall be adjustable so it may be field set to release at a desired torque limit.

2-13.05. Design. The unit shall be designed to withstand submersion in water to a pressure of 10 psi; to endure years of active or inactive use buried

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underground and submerged in water. The unit shall be sealed to prevent water and dirt from entering the mechanism. The unit shall be packed with a suitable grease.

2-13.06. AWWA Nut. The units shall be provided with a two-inch AWWA operating nut attached to the device. The nut shall have an arrow on the base indicating that the valve opens to the "RIGHT", (clockwise) and the word, "OPEN".

2-13.07. Socket. The unit shall be provided with a 2-inch square tapered AWWA socket attached to the device. The 2-inch socket shall have two screws in adjoining socket faces. The socket shall fit a 2-inch AWWA nut.

2-13.08. Mounting. The unit shall be less than 5-1/4 inches in diameter and made to mount on the valve inside of the 6-inch diameter stern riser tube of the valve box or in the valve box.

\* 2-13.09. Coating. All housing parts, including nut and socket, shall be coated inside and outside with a catalyzed epoxy coating system. A top coat of catalyzed polyurethane enamel shall be applied over the epoxy for additional hardness and extra corrosion protection.

\* 2-13.10. Testing. The manufacturer shall submit three copies of "Proof of Design Test" of at least 1000 cycles.

\* 2-13.11. Affidavit of Compliance. The manufacturer shall provide an affidavit certifying that the torque limiting devices furnished complies with the provisions of these specifications.

~~2-14. SHOP PAINTING. All ferrous metal surfaces, except bearing and finished surfaces and stainless steel components of valve actuators and accessories, shall be shop painted for corrosion protection. The valve manufacturer's standard coating will be acceptable, provided it is functionally equivalent to the specified coating and is compatible with the specified field painting.~~

~~The following surfaces shall be painted:~~

<del>Polished or Machined Surfaces</del>	<del>Rust-preventive compound.</del>
<del>Other Surfaces</del>	<del>Epoxy enamel.</del>
<del>Actuators and Accessories</del>	<del>Universal primer.</del>

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