[MICHIGAN](http://mdotcf.state.mi.us/public/design/englishroadmanual/)

DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

FOR

**MANUAL DRY STANDPIPES END ASSEMBLY**

BRG:KAH 1 of 2 APPR:NJM:CJD:07-11-24

**a. Description.** This work consists of furnishing and installing manifolds, gate valves, and caps and chains to existing manual dry standpipes. Perform this work in accordance with the plans, standard specifications, and as specified herein.

**b. Materials.** All materials must meet the approval of the Engineer.

1. Manifolds. Furnish cast brass manifolds with a 6-inch diameter female inlet and two 2.5-inch diameter male outlets. Select manifolds that have at least a 250-psi working pressure. Select manifolds from one of the manufacturers listed in Table 1 or approved equal.

**Table 1: Manufacturers**

|  |  |
| --- | --- |
| Croker | Guardian Fire Equipment, Inc. |
| 7 Westchester Plaza | 3430 NW 38th Street |
| Elmsford, NY 10523 | Miami, FL 33142 |
| (914) 592-3640 | (305) 633-0361 |
| [www.croker.com](http://www.croker.com/) | [www.guardianfire.com](http://www.guardianfire.com/) |

2. Gate Valves. Furnish cast brass non-rising gate valves with a 2.5-inch diameter female inlet and a 2.5-inch diameter female hose connection outlet meeting City of Detroit Fire Department standard threading. Select gate valves that have at least a 250-psi working pressure. Select gate valves from one of the manufacturers listed in Table 1 or approved equal.

3. Caps and Chains. Furnish cast brass caps with 2.5-inch diameter male hose connection threads meeting City of Detroit Fire Department standard threading. Furnish a metal chain as recommended by the cap manufacturer. Select caps and chains from one of the manufacturers listed in Table 1 or approved equal.

**c. Construction.** Perform the work in accordance with the standard specifications and as specified herein.

1. Working Drawings. Develop and submit working drawings to the Engineer in pdf for review and approval not less than 14 days prior to fabrication. Do not fabricate components until written approval of the working drawings has been received from the Engineer. The working drawings must:

A. Include a complete layout of all components including manifolds, gate valves, and caps and chains.

B. Resolve any conflicts with other appurtenances attached to the bridge.

C. Identify the manufacturer and model numbers of all components.

2. Installation. Install manifolds, gate valves, and caps and chains to existing manual dry standpipes in accordance with the plans and the approved working drawings.

3. Hydrostatic Testing. Perform hydrostatic testing in accordance with subsection 823.03.U of the Standard Specifications for Construction except that no leakage will be allowed and that the test pressure is 200 psi measured at the outlet at the top of the standpipe.

4. As-Built Plans. Prepare as-built plans as work progresses. Furnish two complete sets of as-built plans to the Engineer for acceptance within 30 days of complete installation. As-built plans must include at a minimum, manifold, gate valve, and cap and chain locations.

**d. Measurement and Payment.** The completed work, as described, will be measured and paid for at the contract unit price using the following pay item:

**Pay Item Pay Unit**

Manual Dry Standpipe, End Assembly Each

**Manual Dry Standpipe, End Assembly** will be measured based on plan quantities.

Payment may be withheld until as-built plans have been accepted by the Engineer.