

## **OPERATIONS AND MAINTENANCE**

### **#77 & 78 MAINGUARD BLOW-OFF HYDRANT**

#### DESCRIPTION

- A. The hydrants are the #77 & #78 Mainguard hydrants, manufactured by John C. Kupferle Foundry Company., 2511 North 9th Street, St. Louis, MO 63102. Phone 314-231-8738, Fax 314-231-2820.
- B. Hydrants are post type with 2" FIP inlet and 2-1/2" NST nozzle. All operating parts of the hydrant can be serviced or replaced without digging up or disturbing the supply line connection.

#### OPERATION

- A. Hydrant is manually operated by using a wrench on the top screw or operating nut. Hydrant is opened by turning the top screw to the left or counterclockwise at least 6 turns but no more than 7 turns. Hydrant is closed by turning the top screw to the right or clockwise. Hydrant closes against the pressure. Handle should never be forced one way or the other.
- B. The hydrant is self-draining, non-freezing type. When the hydrant is turned off, the inlet valve is closed, and the drain ports are opened, allowing the water in the hydrant to drain out.

#### PARTS REPLACEMENT

- A. Replacement parts may be obtained directly from the John C. Kupferle Foundry Company., 2511 North 9th St., St. Louis, MO 63102. Phone 314-231-8738.
- B. Servicing of the hydrant or replacement of worn parts can be accomplished without digging up or disturbing the supply line connection. This can be done by the following two (2) steps:
  - 1. Turn off water supply to the hydrant.
  - 2. Remove the two (2) bolts holding the top cap in place. The top cap and inside operating parts can be lifted out of the hydrant for servicing, repair or replacement.
- C. Hydrant parts are identified and part numbers are listed on the attached parts list.
- D. If hydrants are used on a daily basis, an annual inspection of the valve washers is recommended. A Part No. 77D, Plunger "O"-Rings and Part No. 771, Plunger Seat Washer should be kept on hand. When replacing seals, lubricate with a non-toxic oil (vegetable oil, linseed etc.).