

OPERATIONS AND MAINTENANCE
INSTRUCTIONS
FOR THE ECLIPSE NO. 85 BLOW-OFF HYDRANTS

DESCRIPTION

- A. THE HYDRANTS ARE ECLIPSE # 85 BLOW-OFF HYDRANTS MANUFACTURED BY JOHN C. KUPFERLE FOUNDRY CO. 2511 NORTH 9TH STREET, ST. LOUIS, MO. 63102. PHONE 314-231-8738, FAX 314-231-2820
- B. HYDRANTS ARE GROUND 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 # 85 SHW (SHORT HANDLE WRENCH) OR A #85 LHW (LONG HANDLE WRENCH) ON THE TOP SCREW OR OPERATING NUT. HYDRANT OPENS BY TURNING THE TOP SCREW TO THE LEFT OR COUNTERCLOCKWISE. HYDRANT CLOSSES BY TURNING THE TOP SCREW TO THE RIGHT OR CLOCKWISE. HYDRANT CLOSSES AGAINST THE PRESSURE. TOP SCREW SHOULD NEVER BE FORCED ONE WAY OR THE OTHER.
- B. THE HYDRANT IS A SELF-DRAINING, NON-FREEZE TYPE. WHEN THE HYDRANT IS TURNED OFF, THE INLET VALVE IS CLOSED AND THE DRAIN PORTS ARE OPENED ALLOWING WATER IN THE HYDRANT AND TRENCH STOCK TO DRAIN OUT THROUGH THE DRAIN OPENING IN THE IRON BASIN.

INSTALLATION

- A. SET HYDRANT IN A SUFFICIENT SUPPLY OF CRUSHED STONE OR GRAVEL TO INSURE DRAINAGE FROM THE DRAIN HOLE IN THE HYDRANT BOTTOM.
- B. SUPPLY LINES **MUST** BE FLUSHED FREE OF ROCK, GRAVEL AND OTHER DEBRIS BEFORE CONNECTING THE HYDRANT.
- C. INSTRUCTIONS OF THE AMERICAN WATER WORKS ASSOCIATION SHOULD BE FOLLOWED WHEN PLACING AND TESTING HYDRANT.
- D. IF IT IS NECESSARY TO ROTATE THE BOTTOM DURING INSTALLATION IT MUST BE TURNED IN A CLOCKWISE DIRECTION.

PARTS REPLACEMENT

- A. REPLACEMENT PARTS MAY BE OBTAINED FROM ANY WATER WORKS DISTRIBUTOR. A LIST OF DISTRIBUTORS MAY BE OBTAINED BY CALLING KUPFERLE FOUNDRY CO. AT 800-231-3990.
- B. SERVICING OF THE HYDRANT OR REPLACEMENT OF WORN PARTS CAN BE ACCOMPLISHED WITHOUT DIGGING UP OR DISTURBING THE SUPPLY LINE CONNECTION. THIS IS DONE BY REMOVING THE FOUR (4) 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 FOLLOWING DETAIL SHEETS.
 - a. ECLIPSE #85 DETAIL DRAWING
 - b. PARTS LIST SHEETS
- D. IF HYDRANTS ARE USED DAILY AS ANNUAL INSPECTION OF THE SEAT RUBBERS ARE RECOMMENDED. A #X566-NS WASHER SET (1 SEAT RUBBER AND 2 O-RINGS) SHOULD BE KEPT ON HAND. WHEN REPLACING WASHER SET, LUBRICATE WITH NON-TOXIC OIL (VEGETABLE, LINSEED, ECT.) WHEN REINSERTING INTO HYDRANT.
- E. FOR PROPER OPERATION, THE HYDRANT SHOULD HAVE 4 BUT NO MORE THAN 5 FULL TURNS ON THE OPERATING NUT.