



ELMA WATER DEPARTMENT

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EWD Hot Box or Hot Rock Installation Specifications

TO: PROPERTY OWNERS, WATER CUSTOMERS, ENGINEERS, ARCHITECTS, CONTRACTORS AND PLUMBER. **NOTE: MAKE SURE THESE SHEETS ARE GIVEN TO THE INSTALLER BEFORE WORK COMMENCES!**

General Notes:

Site Preparation:

- A. Twenty foot (20') maximum distance from curb box to the hot box (rock).
- B. The consumer shall provide an adequate 120V, Ground fault protected circuit to the hot box (rock). The 120V outlet, protected with an "in use" cover, shall be installed 6" above the bottom of the meter.
- **Note: All electric needs to be inspected and approved by New York State Underwriters.
- C. A level finished grade shall be created. The level grade shall extend 6" in all directions around the outside dimensions of the hot box (rock).
- D. Pour a 4" thick concrete pad to support the hot box (rock). The concrete slab shall extend 6" beyond the outside dimensions of the hot box (rock) enclosure.

Installation:

- E. Place hot box (rock) over water meter onto pad. All sectional boxes should be completely assembled before proceeding.
- F. Drill anchor bolt holes full through the base flange around the perimeter of the hot box (rock) enclosure. Insert "red head" expansion anchors through hole into the pad and bolt the box down firmly.
- G. The hot box (rock) needs to be hinged and secured to prevent accidental opening.
- H. Plug heat source into the 120V circuit that has been provided, Use a NEC approved in-use cover.
- I. Concrete pad shall be 6" above finish grade. The area around the pad shall be graded away from the pad for surface drainage.
- J. All work shall conform to all applicable codes and statutes, to include, but not limited to the NEC, OSHA, the NYS Fire prevention and building code (Plumbing) and those of the Elma Water Department.
- K. Customer is responsible for all quarterly meter readings to be completed and returned to the Elma Water Department in a timely manner and be subject to Town of Elma code section 140-29 regarding meter reading cards.

Inspection: Call 674-8855 Monday through Friday from 7:30 A.M. to 3:00 P.M

- L. Pipe sleeve shall have K Copper centered in sleeve with a minimum 2" of insulation on each side of the copper.

- M. The EWD must see at time of inspection the open trench with the K Copper line hooked up to curb box with minimum 48" depth from the existing grade. Note: Service lines crossing under driveways should be deeper than 48" to prevent freezing.
- N. Pipe sleeve both in and out of box 48" minimum with copper centered and insulated top to bottom of sleeve. No kinks at bottom.
- O. The out going line K copper must be connected with a compression fitting at transition.
- P. Placement of Hot box (Rock) shall have copper evenly placed from each end and each side of box.
- Q. A Jumper shall be installed so a leak test can be completed from curb box to transition coupling to insure no leaks at the time of inspection.
- R. Meter bottom shall be 10" minimum from top of pad.
- S. The Town of Elma Water Department shall not be responsible for any frozen lines or meters due to the lack of adequate insulation or loss of power.

- T. The line from the transition coupling shall be K copper or CTS polytube SDR9 200 psi PVC. If PVC is used a copper trace wire must be tied to the PVC line. All unions shall be brass compression fittings with stainless steel inserts on PVC. The line shall be a minimum 48" depth from the existing grade.

- U. All couplings shall be compression fittings with stainless steel inserts. The entire trench shall remain open until approved. If PVC line is used, you must transition back to K copper 10 feet from entering the building. A flare valve or a flare to IPS fitting must be used to a IPS Valve.

- V. The pressure reducing valve and a model 007 residential check valve must be installed for a completed inspection.

- W. No tap can be taken off service line before the back flow preventor.

- X. The curb box shall be centered over curb stop and plumb after backfill.

- Y. Each unit must have a manufacturer's certificate approving the use of this device in western New York and that the make and model are sized according to needs.

IF YOU HAVE ANY QUESTIONS REGARDING THESE ISSUES OR THE ATTACHED MATERIAL, PLEASE CONTACT OUR OFFICE. WE WOULD BE PLEASED TO ASSIST YOU. THANK YOU.

Eugene F. Stevenson

Water Department Superintendent

HOT BOX ENCLOSURE: SEE GENERAL NOTES

EQUAL SPACING

WATER METER OPENING
See Face to Face Dimensions

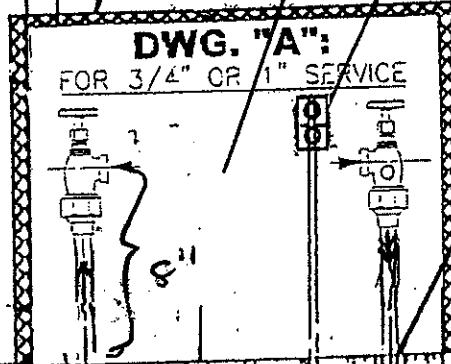
120 V DUPLEX ELECTRICAL OUTLET
see General note A

FACE TO FACE DIMENSIONS

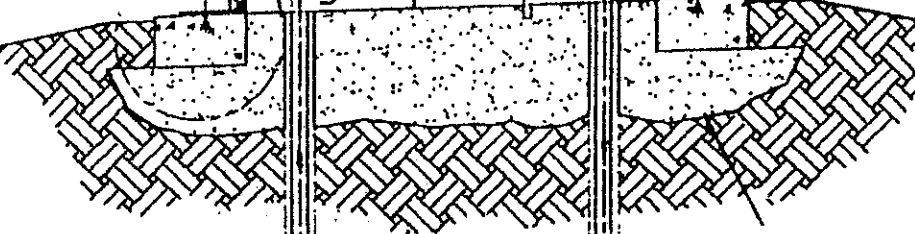
3/4" = 12"
(For Badger Meter Model 25)

1" = 15 7/8"
(For Badger Meter Model 70)

Meter Height = 8" to valve



PVC PIPE SLEEVE, SCH 40 SIZE AS REQ'D. PACK ENTIRE LENGTH OF PIPE SLEEVE WITH HIGH EXPANSION FOAM INSULATION, TYP. DEPTH BELOW SERVICE GRADE SHALL BE MINIMUM OF 48" OR AS REQ'D FOR ADEQUATE FROST PROTECTION



WELL COMPACTED #1 OR #2 R.O. CRUSHED STONE AS REQ'D

TYPE "K" COPPER

FLOW DIRECTION →

SERVICE LINE FROM PUBLIC WATER MAIN

TO WATER CUSTOMER

NOTE: TYPE "K" COPPER TO EXTEND A MINIMUM OF 10' PAST THE METER INSTALLATION BEFORE MAKING A TRANSITION TO ANOTHER APPROVED PIPE TYPE

SIDE ELEVATION
N.T.S.