







DANIEL A. HAAK Dots <u>B/30/50</u> Us. No. <u>17274</u>

PROVED_

M. 1. S. .

CITY ENGINEER

1. THE HUB SHALL BE SAWCUT TO CONFORM TO THE INTERIOR OF THE PIPE

GROUT THE HUB WITH A MINIMUM 3" CONCRETE COLLAR. DO NOT ENCASE HUB JOINT TO SERVICE PIPE.

Plate

2319D

MAY

2010

DEPARTMENT OF PUBLIC WORKS

SADDLE CONNECTION OF

HOUSE SERVICES

loto 5-4-10 Uc. No. 13942

APPROVED___

Oll Mylon CITY ENGINEER

Maintenance Section.

CITY OF ST. PAUL DEPARTMENT OF PUBLIC WORKS

SIGN COLLAR

PLACEMENT

Standard Length will be 8"

Unless Otherwise Approved.

Revision

JULY 2002

1304C

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EC.

SHEET NUMBER

A. The plans indicate the general location and arrangement of underground water main systems. Indicated locations and arrangements were used to size pipe and calculate friction loss, expansion, pump sizing,

and other design considerations. Install piping as indicated, to the extent practical.

E. Test all installed piping as required by the local water utility.

C. All bends, stubs, and hydrants shall be rodded to the water main using 0.75-inch tie rods.

B. Bury all water main with a depth of cover of at least 7.5-feet or with the top at least 12-inches below frost penetration, which ever is greater.

D. Tap water main with size and in location as indicated according to the requirements of the local water utility. The Contractor shall pay water utility fee.