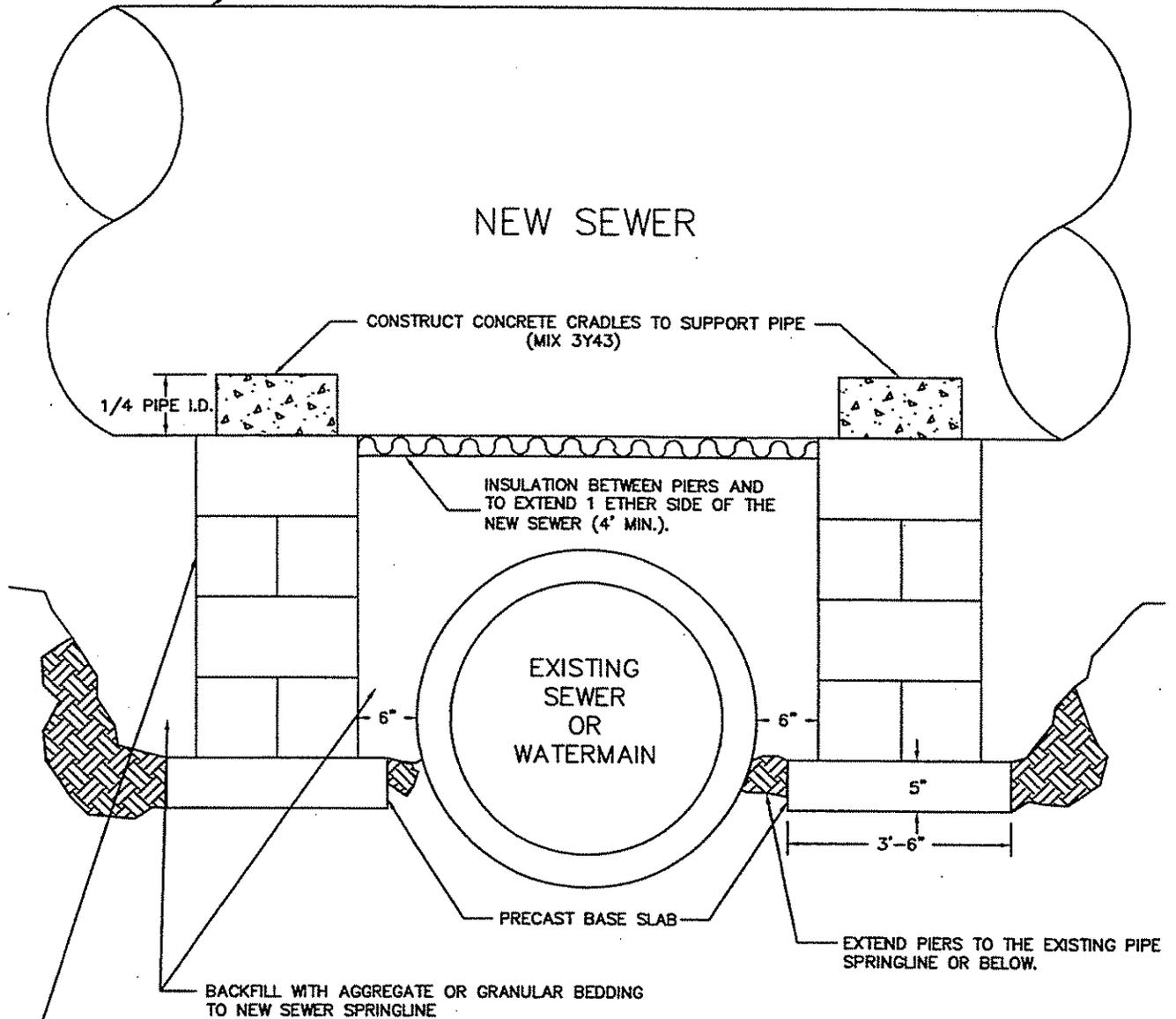


PROVIDE 4' OR 6' LAYING LENGTH PIPE AS REQ.
SO THAT A JOINT IS NOT BETWEEN PIERS



8" X 8" X 16" SOLID CONCRETE
MASONRY UNITS. ALL JOINTS
SHALL BE 3/8" THICK AND
COMPLETELY FILLED WITH MORTAR.

I hereby certify that this plan, specification or
report was prepared by me or under my direct
supervision and that I am a duly Licensed
Professional Engineer under the laws of the
State of Minnesota

Joseph J. Mueller
JOSEPH J. MUELLER
Date 9-2-02 Lic. No. 13942

NOTES:

1. FOR USE WHERE THERE IS LESS THAN 8" CLEAR OUT TO OUT BETWEEN NEW AND EXISTING PIPES. DESIGNER TO CONSIDER USE OF PILING PIPE OR SADDLE WHERE ALLOWABLE SPAN EXCEEDS DISTANCE BETWEEN PIERS.
2. INSULATION SHALL BE DOW HI-40 OR AN APPROVED EQUAL
3. WIDTH OF PIERS SHALL BE A MINIMUM OF 16" + O.D. OF NEW SEWER IN FT.

APPROVED _____
W. J. [Signature]
CITY ENGINEER

CITY OF ST. PAUL
DEPARTMENT OF PUBLIC WORKS
CONCRETE PIERS
FOR PIPE CROSSINGS

Date of
Revision
JULY
2002

Standard
Plate
No.
2320B