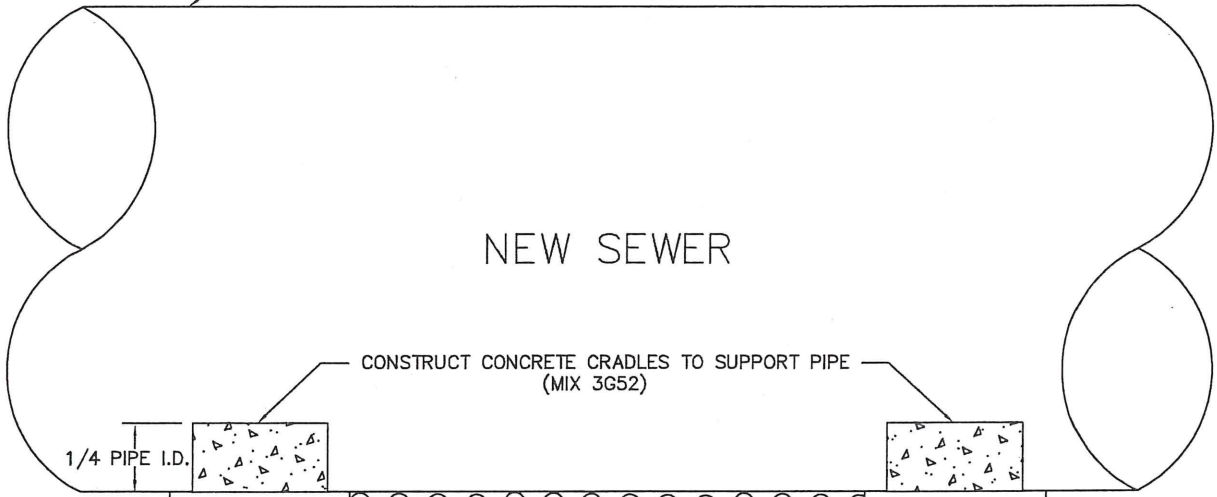


PROVIDE 4' OR 6' LAYING LENGTH PIPE AS REQ.
SO THAT A JOINT IS NOT BETWEEN PIERS



NEW SEWER

CONSTRUCT CONCRETE CRADLES TO SUPPORT PIPE
(MIX 3G52)

1/4 PIPE I.D.

INSULATION BETWEEN PIERS AND
TO EXTEND 1' EITHER SIDE OF THE
NEW SEWER (4' MIN.).

EXISTING
SEWER
OR
WATERMAIN

6"

6"

5"

3'-6"

PRECAST BASE SLAB

EXTEND PIERS TO THE EXISTING PIPE
SPRINGLINE OR BELOW.

BACKFILL WITH AGGREGATE OR GRANULAR BEDDING
TO NEW SEWER SPRINGLINE

8" X 8" X 16" OR 6" X 8" X 16"
SOLID CONCRETE MASONRY UNITS.
ALL JOINTS SHALL BE 3/8" THICK
AND COMPLETELY FILLED WITH MORTAR.

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.

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

Aaron D. Hass
AARON D. HASS

Date 01-24-2017 Lic. No. 26424

APPROVED 2-2-2017
Tauli Kurt
CITY ENGINEER

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

Date of
Revision
JAN
2017

Standard
Plate
No.
2320C