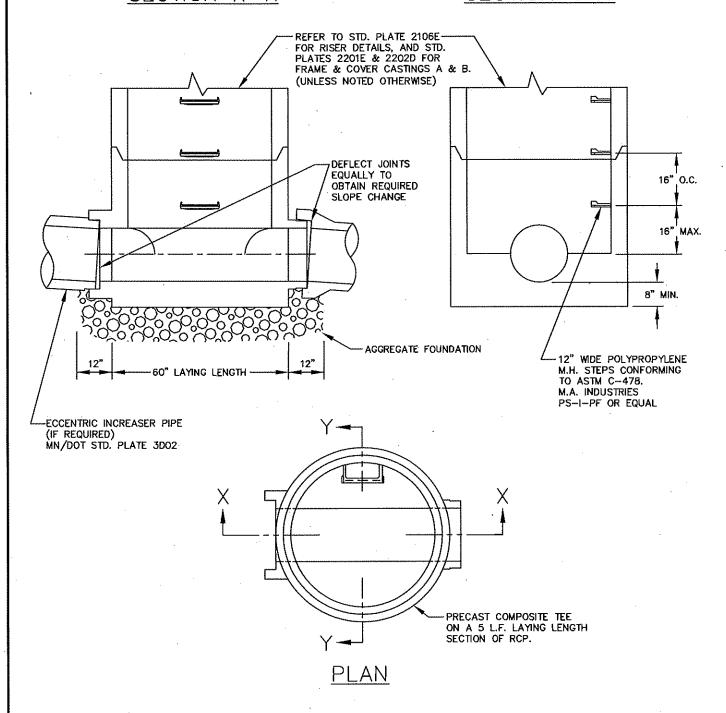
## SECTION X-X

## SECTION Y-Y



## NOTES:

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

OSEPH J. NUELLER 13942 THIS MANHOLE FOR USE ON STRAIGHT RUNS OF MAINLINE SEWER 12" TO 36" I.D. SLOPE CHANGE CAN BE ACCOMPLISHED BY DEFLECTING JOINTS AS NOTED HEREIN. DIAMETER CHANGE CAN BE MADE WITH ASSOCIATED ECCENTRIC EXPANSION.
 PRECAST RISER SECTIONS TO MEET ASTM C-478
 JOINTS SHALL USE O-RING RUBBER GASKETS CONFORMING TO ASTM C-443
 MAXIMUM JOINT DEFLECTION FROM "HOME" IS 3/4". CORRESPONDING MAXIMUM SLOPE

CHANGE PER JOINT IS:

PIPE I.D. 12" 15" 18" 21" 24" 27" 30" 36"

SLOPE CHANGE/JOINT 6.2 5.0 4.1 3.6 3.1 2.7 2.5 2.0 %

APPROVED CITY ENGINE**T**R

CITY OF ST. PAUL DEPARTMENT OF PUBLIC WORKS MANHOLE, TYPE VI-CT Date of Revision MAY 2010

Standard Plate No.