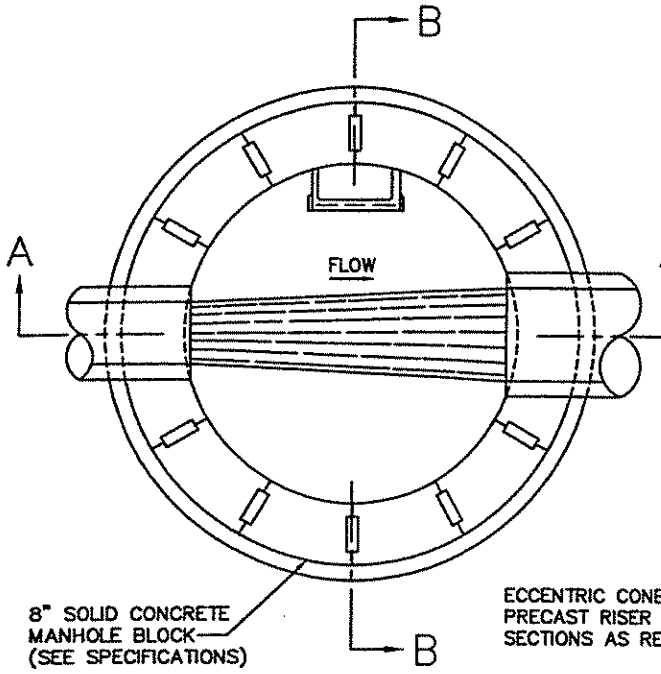
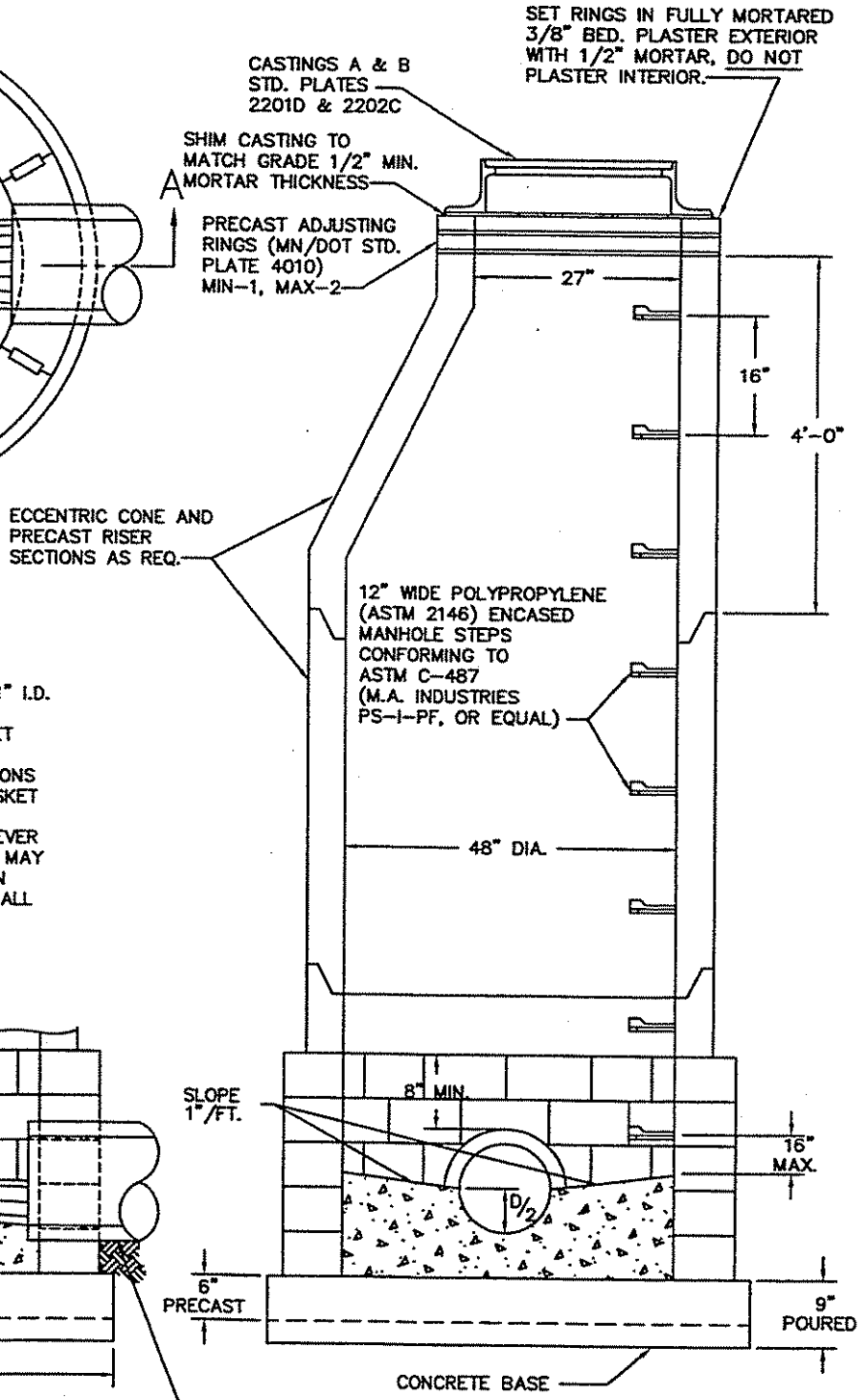
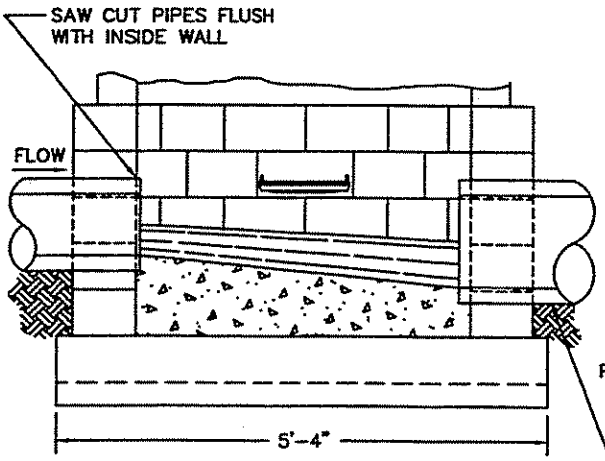




NOTES:

1. THIS MANHOLE FOR USE WITH 21" I.D. AND SMALLER PIPE
2. PRECAST RISER SECTION TO MEET ASTM C-478
3. JOINTS BETWEEN PRECAST SECTIONS SHALL USE O-RING RUBBER GASKET CONFORMING TO ASTM C-443
4. BASE SHALL BE PRECAST WHENEVER POSSIBLE. CAST IN PLACE BASE MAY BE USED IF NECESSARY. CAST IN PLACE BASE AND/OR INVERT SHALL BE MN/DOT 3Y43 CONCRETE.



SECTION A-A

SECTION B-B

PIPE SHALL REST ON UNDISTURBED EARTH AND NOT BEAR DIRECTLY ON SLAB

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

Date 9-2-02 Lic. No. 13942

APPROVED CITY ENGINEER	CITY OF ST. PAUL DEPARTMENT OF PUBLIC WORKS MANHOLE, DESIGN TYPE II	Date of Revision JULY 2002	Standard Plate No. 2102C