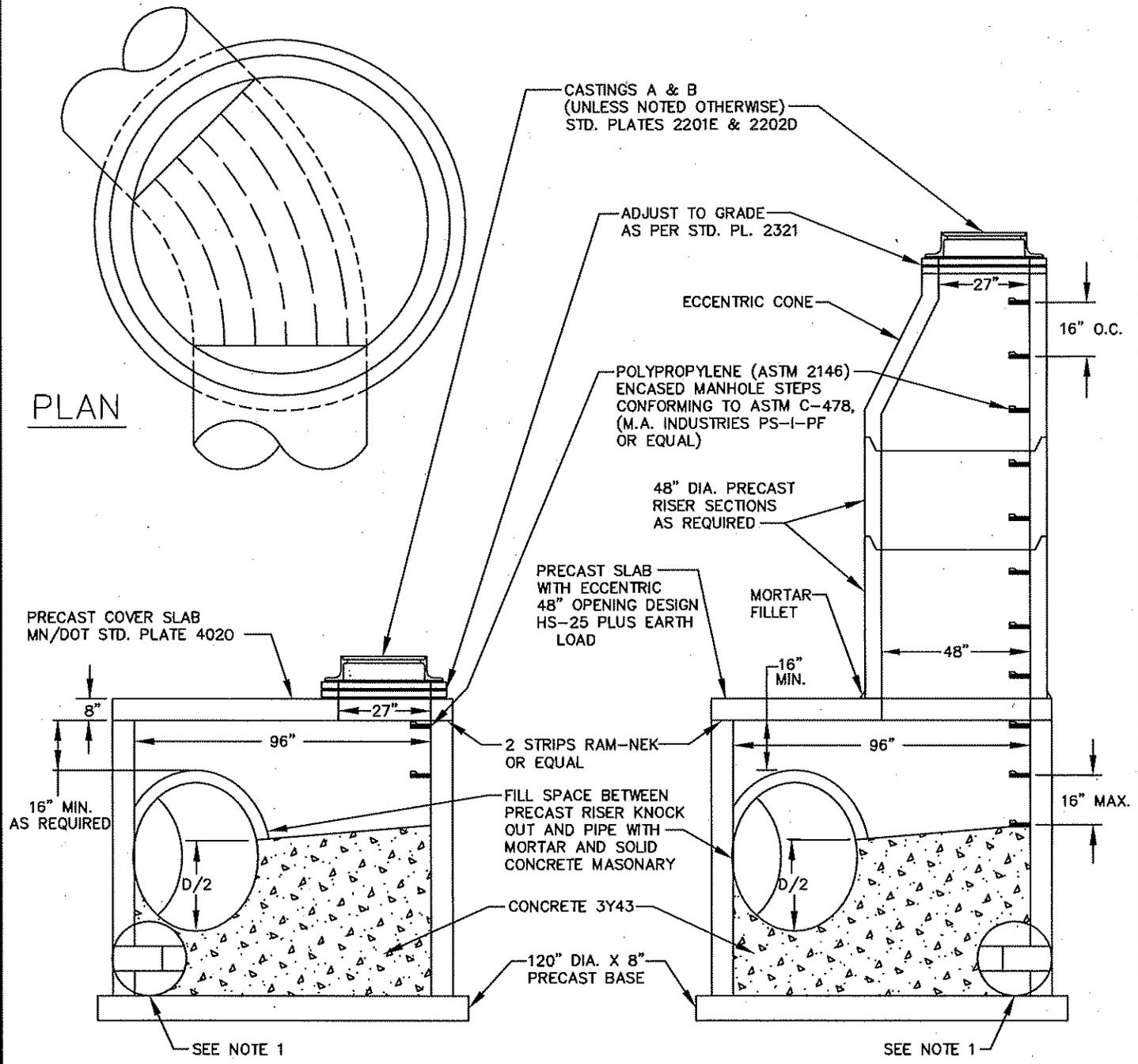


PLAN



TYPE V

FOR USE WHEN MANHOLE DEPTH IS 12' OR LESS

TYPE V-S

FOR USE WHEN MANHOLE DEPTH EXCEEDS 12 FEET

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 5-4-10 Lic. No. 13942

NOTES:

1. THIS PORTION OF MANHOLE MAY BE CONSTRUCTED OF 8" SOLID CONCRETE MANHOLE BLOCK (SEE SPECIFICATIONS). ALL JOINTS TO BE COMPLETELY FILLED WITH MORTAR 3/8" THICK.
2. PRECAST RISER TO MEET ASTM C-478
3. TONGUE AND GROVE PRECAST RISER SECTION JOINTS TO USE O-RING RUBBER GASKET CONFORMING TO ASTM C-443
4. SAW CUT PIPES FLUSH WITH INTERIOR WALL OF MANHOLE

APPROVED  
*[Signature]*  
 CITY ENGINEER

CITY OF ST. PAUL  
 DEPARTMENT OF PUBLIC WORKS  
 MANHOLE, TYPE V & V-S

Date of Revision  
 MAY 2010

Standard Plate No.  
 2105E