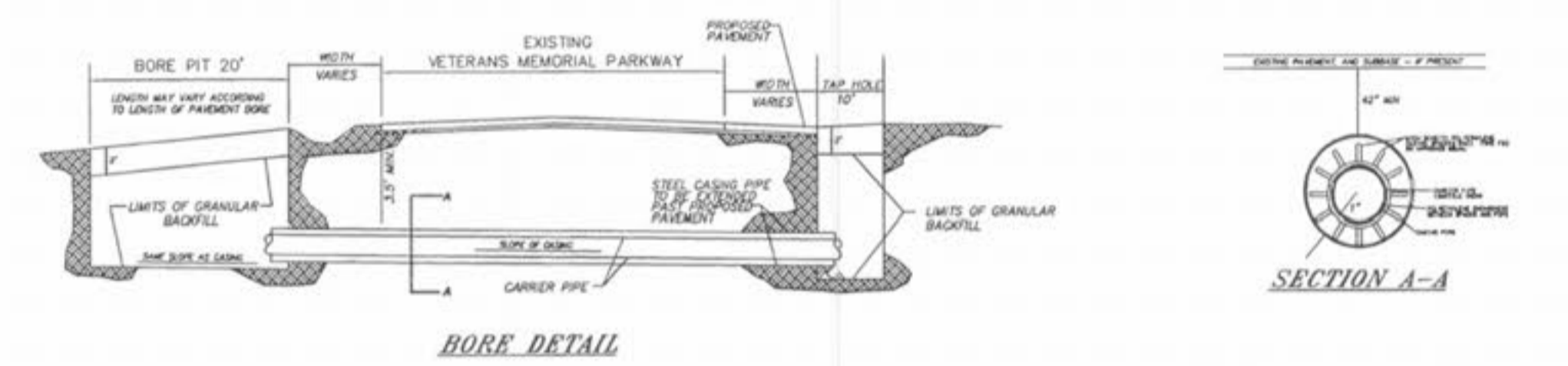


SANITARY SEWER PROFILES



STORM SEWER PROFILES



- BORING NOTES**
- DO NOT SCALE DRAWING. FOLLOW DIMENSIONS.
 - INSTALLATION OF THE CASING AND CARRIER PIPES SHALL MEET THE REQUIREMENTS FOR THE CITY OF ST. CHARLES SPECIFICATIONS.
 - ALL JOINTS IN THE CASING PIPE SHALL BE WELDED.
 - THE PIPE TO BE PLACED IN THE BORE HOLE SHALL BE CAST-IRON PIPE EXCEPT AS REQUIRED ON THE PLANS.
 - STEEL CASING PIPE USED IN THE INSTALLATION OF WATER OR SEWER LINES AND CONDUITS SHALL HAVE A MINIMUM YIELD STRENGTH OF 35,000 P.S.I.
 - CARRIER PIPE SHALL BE 8" DIA.
 - CASING PIPE SHALL BE 12" DIA. STEEL (0.281" WALL THICKNESS).
- ENCASUREMENT SPACER DETAILS**
- Gap between spaces and casing pipe to be no more than 1".
 - Carrier pipe to have locking joints provided for future maintenance. Alternative method of extracting pipe may be provided as approved by the City.

10/26/04	REVISED AS PER CITY COMMENTS
12/02/04	REVISED SANITARY

**MAGNOLIA COMMERCIAL
SANITARY AND STORM PROFILES**
CISSELL MUELLER

ST. CHARLES ENGINEERING & SURVEYING, INC.
801 S. FIFTH STREET, SUITE 202
ST. CHARLES, MO 63301
TEL: (636) 947-0607 FAX: (636) 947-2448



ORDER NO. 031486
DATE 08/26/04