

SECTION 02305

BORING AND JACKING

PART 1 GENERAL

1.01 WORK INCLUDED

- A. Placing casing and carrier pipe by boring and jacking under highways and railroads.

1.02 RELATED WORK

- A. Appropriate Pipe utility Sections (2700 Numbers)

1.03 REGULATIONS AND PERMITS

- A. Permits for crossing highways or railroads will be obtained by the Owner.
- B. For highway crossings, satisfy the Highway Department to the extent of the Owner's posted surety bonds.
- C. For railroad crossings, furnish certificates of insurance in amounts established by the railroad company, naming the railroad as the insured.

PART 2 PRODUCTS

2.01 STEEL CASING PIPE

- A. Minimum yield strength of 35,000 psi.
- B. Minimum thickness:

Nominal Diameter (inches) Minimum Thickness (inches)

Under 14	0.188
14-16	0.219
18	0.250
20	0.281
22	0.312
24	0.344
26	0.375
28-30	0.406
32	0.438
34-36	0.469
38-42	0.500

- C. Where casing pipes are to be installed under railroads, provide with a protective coating, cathodic protection; or an increased wall thickness one standard size greater than that shown above. Increase a minimum of 0.063" except for diameters under 1 23/4 inch.
- D. Steel casing pipe shall be of continuous weld construction and installed with welded joints.

2.02 CARRIER PIPE

- A. Carrier pipe installed in the casing pipe shall be as specified under the appropriate Piped Utility Section (2700 numbers) and as shown on the drawings.

PART 3 EXECUTION

3.01 GENERAL REQUIREMENTS

- A. Perform all crossings according to the requirements of the governing highway department or Railroad Company.
- B. Notify the appropriate authorities involved and request their supervisory services during construction.
- C. Provide necessary safeguards to protect the crossing.
- D. Where bored highway installations are not shown on the plans, open cut the crossing and provide a casing pipe only if required by the governing highway department.

3.02 INSTALLATION

- A. Perform all crossings in the manner shown on the drawings, except as otherwise directed by the highway department or railroad company.
- B. Dry bore an opening under the crossing.
- C. Jack the casing pipe, of the type and size specified, into the bored opening.
- D. Install the appropriate carrier pipe into the casing pipe.
- E. Test the carrier pipe according to the appropriate Pipe Utility Sections (2700 numbers).
- F. Provide blocking to prevent carrier pipe from moving inside casing pipe.
- G. Fill annular space between carrier and casing pipe with filler and at locations as approved by Town Engineer.

END OF SECTION