



Horizontal Elliptical Concrete Pipe

Core Product Line

CORE PRODUCTS DIVISION



OVERVIEW

Horizontal Elliptical Reinforced Concrete Pipe (HERCP) is recommended for installations where:

- Limited vertical clearance or low head room conditions exist
- Shallow cover, increased hydraulic capacity and/or live load conditions exist
- Structural failure might endanger life or property (reinforced pipe even after ultimate failure retains its shape and does not collapse)

SIZES

HERCP is normally available in equivalent round diameters of 18 inch through 60 inch

APPLICATION

HERCP can be used for the following:

- Sewers
- Storm Drains
- Culverts
- Impound Overflow Conduits
- Irrigation Distribution Systems
- Low Pressure Sewer Force Mains
- Treatment Plant Piping
- Outfalls
- Utility Tunnels
- Groundwater Recharge Systems
- Jacked or Tunneled Systems

JOINTS

The following joints are normally available for HERCP:

- Concrete joint with rubber gasket
- Tongue and groove for packing with mastic joint compound, preformed mastic or butyl gaskets

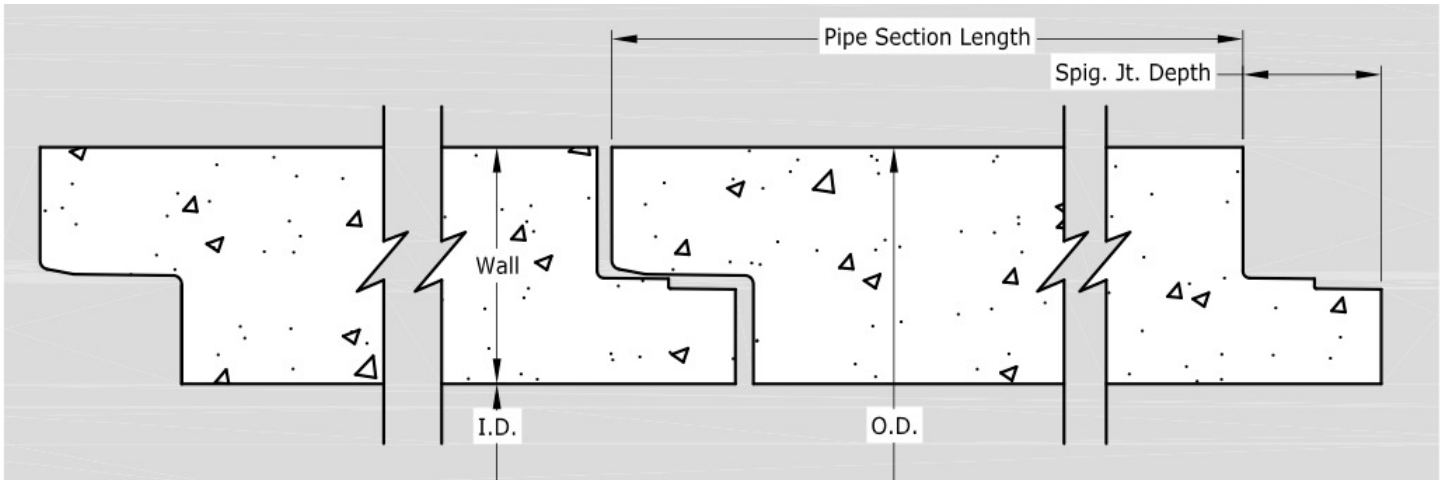
LININGS / COATINGS

A variety of linings and coatings may be available where project conditions dictate use.

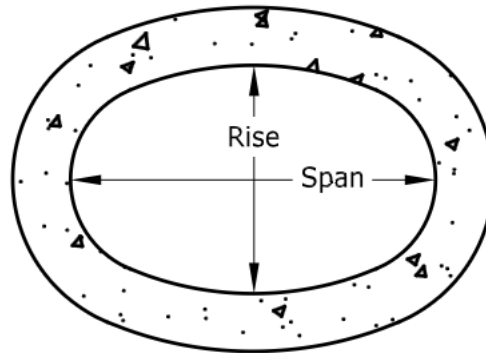
APPLICABLE SPECIFICATIONS

- **ASTM C507** - Reinforced Concrete Elliptical Culvert, Storm Drain, and Sewer Pipe
- **ASTM C443** - Joints for Circular Concrete Sewer and Culvert Pipe, Using Rubber Gaskets
- **ASTM C990** - Standard Specification for Joints for Concrete Pipe, Manholes, and Precast Box Sections Using Preformed Flexible Joint Sealants
- **State / Local Department of Transportation requirements**

ASTM C507 DATA FOR 18" TO 72" ELLIPTICAL PIPE JESSUP, MD PLANT



Section View

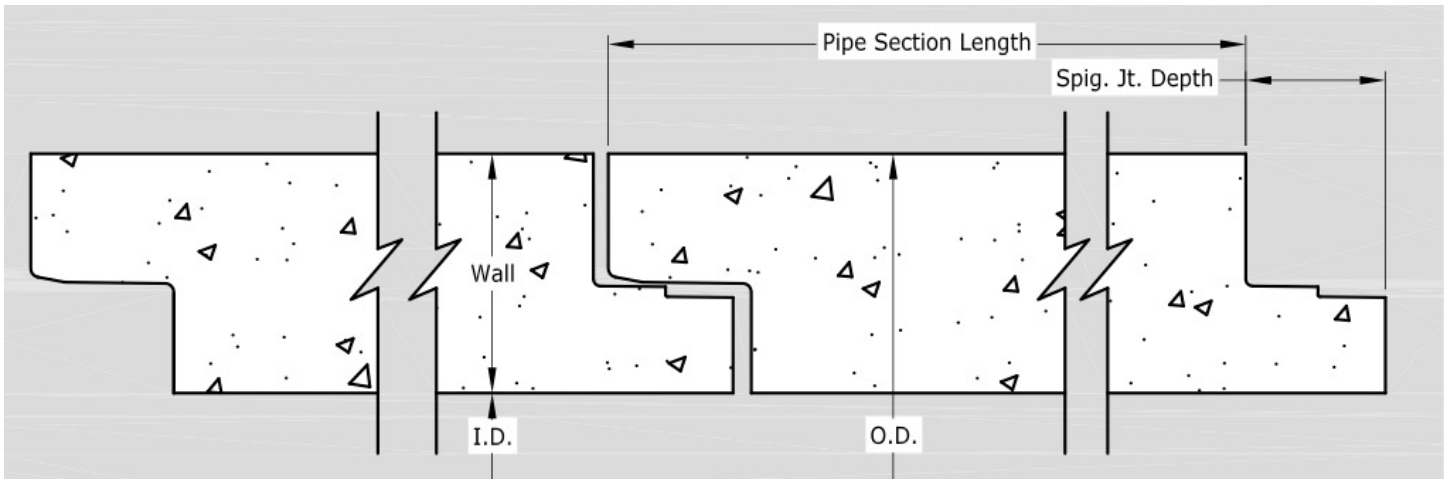


Basic Dimensions						
Equiv. Round Size (in.)	Inside Span (in.)	Inside Rise (in.)	Pipe Section Length (Ft.)	Nominal Wall Thickness (in.)	Spig. Jt. Depth (in.)	Approx. Wt / Ft (Lbs)
18	23	14	8	3 5/8	3 1/4	290
24	30	19	8	3 5/8	3 1/4	370
27	34	22	8	3 5/8	3 1/4	410
30	38	24	8	3 3/4	3 1/4	470
33	42	27	8	3 3/4	3 1/4	520
36	45	29	8	4 1/2	3 1/4	660
39	49	32	8	4 3/4	3 1/4	770
42	53	34	8	5	3 3/4	860
48	60	38	8	5 1/2	3 3/4	1100
54	68	43	8	6	4	1360
60	76	48	8	6 1/2	4	1610
66	83	53	8	7	4 3/4	1860
72	91	58	8	7 1/2	4 3/4	2180

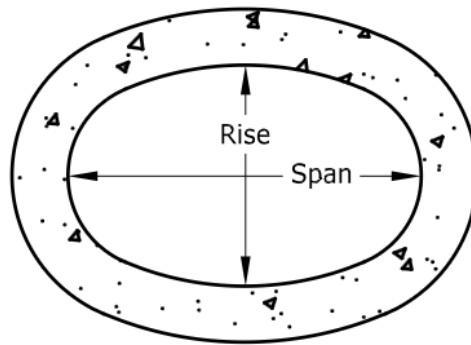
NOTES

1. Pipe conforms to ASTM C507 & AASHTO M207
2. Pipe can be supplied with gaskets meeting the requirements of ASTM C443.
3. Typical ASTM C507 strength Class HE-III, Class HE-IV or Special Design available.

ASTM C507 DATA FOR 18" TO 60" ELLIPTICAL PIPE **HANOVER, VA PLANT**



Section View

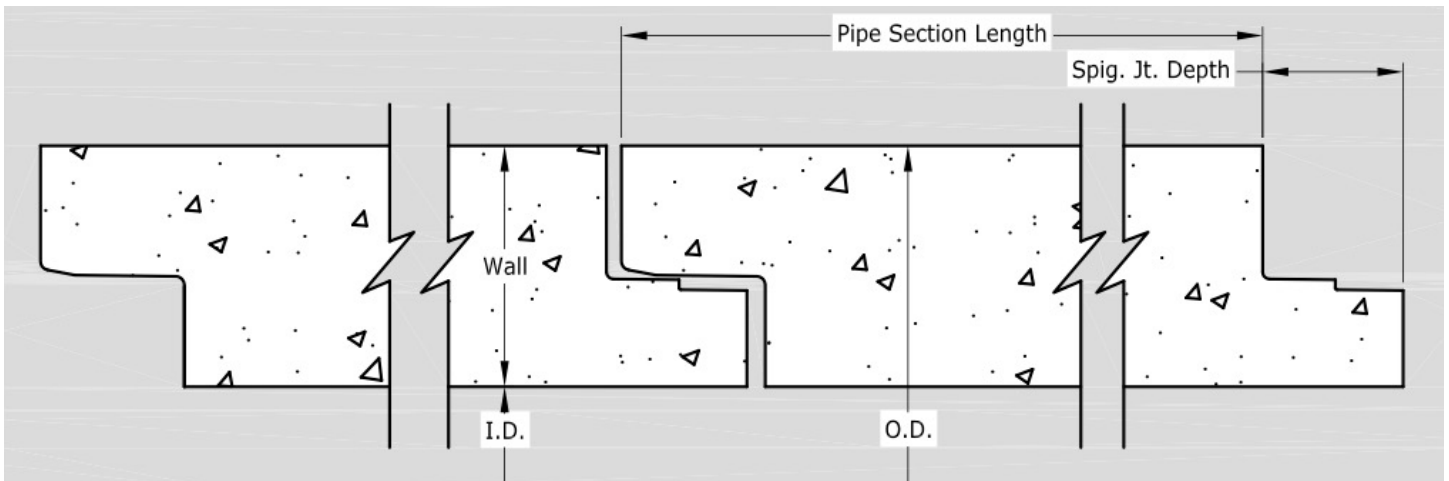


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48	60	38	8	5 1/2	3 3/4	1100
54	68	43	8	6	4	1360
60	76	48	8	6 1/2	4	1610

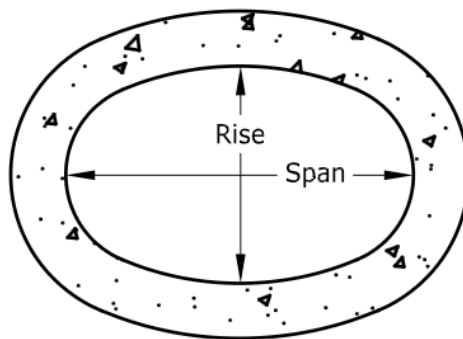
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ASTM C507 DATA FOR 18" TO 36" ELLIPTICAL PIPE
CHESAPEAKE, VA PLANT



Section View

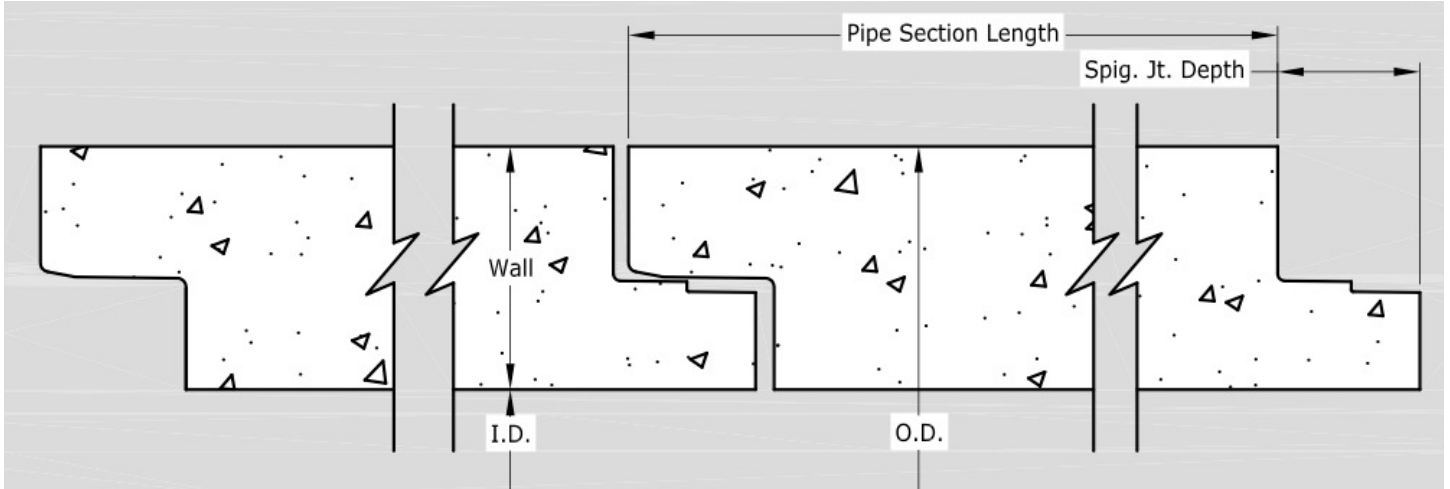


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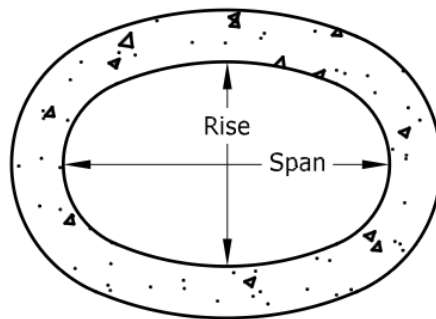
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ASTM C507 DATA FOR 18" TO 60" ELLIPTICAL PIPE **CHARLESTON, SC PLANT**



Section View



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