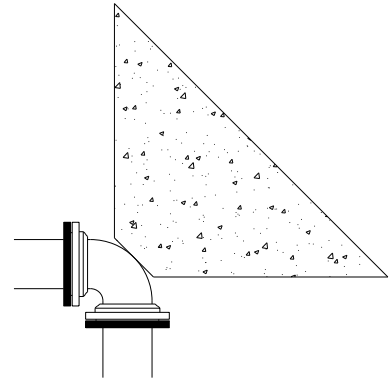
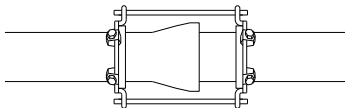


RESTRAINED
JOINT GLAND
(TYP.)
90° EYE-BOLT (TYP.)
3/4" THREADED
ROD (TYP.)

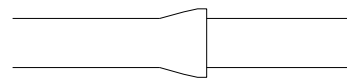


FITTING WITH TIE-RODS AND
RESTRAINED JOINT GLANDS

FITTING WITH RESTRAINED
JOINT GLAND AND
THRUST BLOCK



TIE-RODS FROM
RESTRAINED JOINT GLAND TO
RESTRAINED JOINT GLAND



PUSH-ON JOINT WITH
RESTRAINED JOINT GASKET

PIPE DIA. (IN)	ROD SIZE (IN)	# OF RODS
6	3/4"	2
8	3/4"	4
10	3/4"	4
12	3/4"	4
14	3/4"	4
16	3/4"	6

TIE-ROD CHART

NOTES:

1. RESTRAINED JOINT LENGTHS SHALL BE CALCULATED BY THE DESIGN ENGINEER. CALCULATIONS SHALL BE SUBMITTED TO HCWSA.
2. THREADED ROD SHALL BE MINIMUM TYPE 304 STAINLESS STEEL AND SHALL HAVE A MINIMUM YIELD STRENGTH OF 50,000 PSI.



HENRY COUNTY WATER & SEWERAGE AUTHORITY

THRUST RESTRAINT

REVISED: 01/01/2012

SCALE: N.T.S.

DETAIL NO.

W13