

6 - 3/4" TIE RODS EQUALLY SPACED
BALANCE OF THE RODS SHALL BE NORMALLY BOLTED

FLANGE ASSEMBLY

HDPE MECHANICAL JOINT ADAPTER

FLANGE BY MJ REDUCER

5" MIN TO 15" MAX BEND
TO MATCH HDD PIPE ANGLE

CONCRETE THRUST
ANCHOR (SEE DETAIL W-19)

NOTE:

1. CONTRACTOR SHALL RESTRAIN PVC 60 LF AT
TRANSITION FROM HDPE TO PVC.

HDPE TRANSITION

N.T.S.



CITY OF PORTLAND
DEPARTMENT OF UTILITIES - WATER
STANDARD WATER DETAILS

REVISION NO: 2
DATE: 06/05/2024

W-18