THRUST BLOCK ANCHOR RODS SHALL MEET THE REQUIREMENTS OF paragraphs 1/6.72, WITH THE THRUST BLOCKS BEING USED TO SUPPORT ALL RELEVANT WEIGHT TO BE STORED. HOWEVER, THE THRUST BLOCKS USED JULIES SHALL BE APPROVED BY THE SYSTEM OWNER.

If the crown of the system allows a method that restrains individual joints, these joints shall be spread out. When the anchor restraints length measured from the center of the fitting, as shown on these sheets shall be restrained, and shall remain in the anchor restraints length displayed in the system.

Class, concrete, shall not be placed or utilized with joint or restraint. Anchorage, plastic sheeting or metal feet may be placed over pipe or fittings to protect concrete from freezing or thawing.

THRUST BLOCK ANCHOR RODS SHALT BE PLACED IN THE RESTRAINT AND RESTRAINED REQUIREMENTS. ALL CHANGED ROADS SHALL HAVE STANDARD AA-ROMS ON EACH END, AND SHALL HAVE A Minimum OF 15 CONCRETE CEMENTER IN ALL DIRECTIONS.

The concrete from freezing or thawing. Anchorage, plastic sheeting or metal feet may be placed over pipe or fittings to protect concrete from freezing or thawing.

VERTICAL BEND GRAVITY BLOCK - ELEVATION

MINIMUM GRAVITY BLOCK VOLUMES FOR VERTICAL BENDS (CU.FT.)

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MINIMUM RESTRAINED LENGTH OF PIPE (L/R)

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ANCHOR ROD SCHEDULE FOR GRAVITY BLOCKS

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Note: For polyethylene coated pipe, multiply values in table by 1.45.

Note: For polyethylene coated pipe, multiply values in table by 1.15.

VERTICAL THRUST RESTRAINT DETAILS

NOTE: FOR POLYETHYLENE WRAPPED PIPE, MULTIPLY VALUES IN TABLE BY 1.45.

U.S. CUSTOMARY STANDARD SHEET

WATER MAIN VERTICAL THRUST RESTRAINT DETAILS

D. A. T. F. I. E. (ACTING)

EFFECTIVE DATE: 05/03/2012

APPROVED NOVEMBER 1, 2011

DEPUTY CHIEF ENGINEER DESIGN

E. N. / S. RICHARD W. LEE, P.E.

663-03

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

U.S. CUSTOMARY STANDARD SHEET

WATER MAIN VERTICAL THRUST RESTRAINT DETAILS

APPROVED NOVEMBER 1, 2011

DEPUTY CHIEF ENGINEER DESIGN (ACTING)

ISSUED UNDER EB 11-025

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