



ROD REQUIREMENTS

NO. OF RODS	BRANCH SIZE
4"	2
6"	2
8"	4
12"	4
16"	6
24"	6
30"	8
36"	8

NOTES:

1. STEEL RODS AND BOLTS SHALL BE 3/4" 316 STAINLESS STEEL.
2. SEE DETAIL R-7 & R-8 (REACTION BLOCK TABLES) FOR AREA OF CONCRETE REQUIRED.
3. CONCRETE SHALL NOT CONTACT BOLTS OR ENDS OF MECHANICAL FITTINGS.

CITY OF RALEIGH
STANDARD DETAIL

REVISIONS DATE: 01/18/2025 NOT TO SCALE

VALVE RESTRAINT AT TEES
AND CROSSES FOR LINES
(4"-24")

R-12