



**REINFORCING REQUIREMENTS**

**THRUST COLLAR, AND THRUST SCHEDULE**

I.D. PIPE	REBAR SIZE	"X" BAR LENGTH	"X" BAR WEIGHT	"Y" BAR LENGTH	"Y" BAR WEIGHT	NO. REQUIRED
6"-36"	#5	2'-2" + O.D. PIPE	1.043 LBS/FT	1'-1"	1.1 LBS. EACH	X-24 Y-12
≥48"	#6	3'-0" + O.D. PIPE	1.502 LBS/FT	1'-3"	1.9 LBS. EACH	X-24 Y-12

I.D. PIPE	"A"	"B"	"C"	"D"
6"-16"	1'-4"	1'-7"	2"	3/8"
20"-24"	1'-4"	1'-7"	3"	1/2"
30"-36"	1'-4"	1'-7"	4"	5/8"
≥48"	1'-8"	1'-9"	6"	7/8"

**NOTES:**

1. CONCRETE SHALL BE 3,000 PSI AND TRANSIT MIXED.
2. REINFORCING BARS SHALL BE DEFORMED AND TIED TOGETHER.
3. TRENCH BOTTOM WIDTH IN VICINITY OF THRUST BLOCK INSTALLATION SHALL BE THE MINIMUM WIDTH AS SHOWN ON DETAIL S-4 & S-5.
4. BACKFILL TAMPED IN 6" LIFTS, SEE DETAIL S-4 & S-5.
5. THRUST COLLAR MUST BE FACTORY WELDED ON BOTH SIDES ALONG BOTH EDGES OF COLLAR AROUND CIRCUMFERENCE.
6. IN LIEU OF WELDED RING, FRICTION RESTRAINING GLANDS ARE PERMITTED.

<b>CITY OF RALEIGH</b>	
<b>STANDARD DETAIL</b>	
REVISIONS	DATE: 01/18/2025 <span style="float: right;">NOT TO SCALE</span>
RESTRAINING COLLAR DESIGN DATA FOR SEWER FORCE MAIN	
S-6	