

D	18"	21"	24"	27"	30"	33"	36"	39"	42"	45"	48"	51"	54"	57"	60"	66"
L.	12"	12"	12"	12"	12"	18"	18"	18"	18"	18"	18"	18"	18"	18"	2	21"
т	5"	5"	6"	7"	7"	8"	9"	9"	9"	10"	10"	10"	10"	10"	11"	11
J	1/16	1/4"	1/4"	1/4"	5/6	5/6	5/6	5/6	5/6"	5/16"	3/8"	3/8"	3/8"	3∕g"	3/8"	3/8
NO. OF TIES		3	3	3	3	4	4	4	4	4	4	4	4	4	5	5

NOTES:

- A CONCRETE COLLAR IS REQUIRED WHERE PERMITTED PULL AT PIPE JOINT IS EXCEEDED. PULLING OF JOINTS SHALL BE LIMITED TO 3/4" FROM NORMAL CLOSURE FOR PIPE 36" OR SMALLER AND TO 1". FOR PIPE 39" OR LARGER.
- 2. VALUE OF ANGLE "A" SHALL BE SHOWN ON PLANS.
- 3. BEVELED PIPE MAY BE USED IN LIEU OF A CONCRETE COLLAR.
- 4. CONCRETE COLLARS SHALL NOT BE USED FOR A SIZE CHANGE ON THE MAINLINE.
- 5. FOR PIPE 21" OR SMALLER AN INTERIOR FORM OF UNSEALED SONO-TUBE OR EQUAL SHALL BE USED. FOR PIPE 24" OR LARGER A REMOVABLE INTERIOR FORM SHALL BE USED.
- 6. REINFORCING SHALL BE USED FOR PIPES LARGER THAN 21"AND ON ALL PIPES WHERE THE SPACE BETWEEN PIPE EXTREMITIES IS $2\frac{1}{2}$ " OR LARGER.
- 7. INCREASE NUMBER OF CIRCULAR TIES TO MAINTAIN A SPACING OF 6" O.C. WHEN THE SPACE BETWEEN PIPE EXTREMITIES IS OVER $2\frac{1}{2}$ ".
- 8. CONCRETE SHALL BE CLASS 560- C- 3250.
- 9. FOR PIPE LARGER THAN 66" A SPECIAL COLLAR DETAIL IS REQUIRED.

* USE "B" AGGREGATE GRADATION WHEN PLACING CONDITIONS PERMIT.

DATE OF REVISIONS NATURE OF CITY OF SANTA ANA IMPROVEMENT STANDARD STO

CONCRETE COLLAR

NO

FOR SFORM DRAIN PIPE

APPROVED: IMPACATIVE ENGINEER DATE 6/2/82