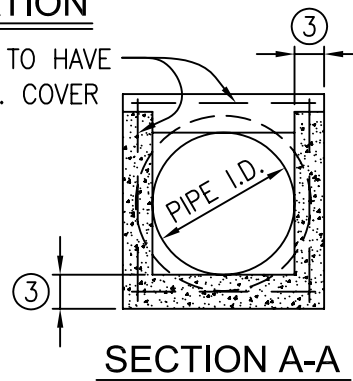


NOTE:
WHEN HDPE IS USED FILL VOID
AREA WITH NON-SHRINK GROUT

LONGITUDINAL ELEVATION

PIPE I.D.	PIPE WALL "B" THICKNESS	"D"	SLOPE	MINIMUM LENGTH OF UNIT
12"	2"	17"	6:1	4'-9"
15"	2 1/4"	20 1/2"	6:1	6'-5"
18"	2 1/2"	24"	6:1	8'-0"
24"	3"	31"	6:1	11'-3"
30"	3 1/2"	38 1/2"	6:1	14'-8"
36"	4"	45 1/2"	6:1	17'-11"
42"	4 1/2"	52 1/2"	6:1	21'-2"

REINF. TO HAVE
1" MIN. COVER



- ① Dimension "D" is based on ASTM C-76, Class III, Wall thickness "B". If any other wall thickness is used, dimensions "D" must be adjusted accordingly.
- ② Toewall is used only when dimension is shown elsewhere in the plans.
- ③ Side Walls and Slab thickness shall be Pipe Wall thickness plus 3" (5" minimum total thickness).
- ④ Cement stabilized bedding and backfill shall be in accordance with the Item, "Excavation and Backfill for Structures". Bedding and backfill shall be considered subsidiary to the Item "Safety End Treatment". When concrete riprap is specified around the safety end treatment backfill shall be as directed by Engineer.

GENERAL NOTES:

Precast safety end treatment for reinforced concrete pipe may be used for TYPE II end treatments as specified in Item "Safety End Treatments".

Manufacture of this product shall conform the requirements of Item "Safety End Treatment" except as noted below:

- A. Minimum Reinforcing shall be #4 at 6" (Grade 40) or #4 at 9" (grade 60) each way or 6X6~W12xW12 or 5x5~W10xW10 welded wire fabricate.
- B. Concrete for precast (steel formed) sections shall be 3000 PSI @ 28 DAYS.

16_SAFTEY_END_TREATMENT.Dwg



CITY OF LUFKIN
ENGINEERING DEPARTMENT
P.O. BOX 190
LUFKIN, TEXAS 75902-0190
PHONE: (936) 633-0414

STORM SEWER STANDARDS

SAFETY END TREATMENT

16

3-11-04