

of this standard is governed by the "Texas Engineering Practice irranty of any kind is made by TxDOT for any purpose whatsoever. Wes no responsibility for the conversion of this standard to its or for incorrect results or damages resulting from its use.

PIPE RUNNERS REQUIRED PIPE "D" MAXIMUM LENGTH PIPE WALL "B" THICKNESS REQUIRED RUNNER SIZES SLOPE MULTIPLE SINGLE NOMINAL DIA. UNIT 0. D. PIPE PIPE Yes, for 211 No 17" 6: 1 4'-9" 3" STD 3.500" 3.068" >2 pipes Yes, for 2 1/4" 20 1/2" 6'-5" No 6:1 3" STD | 3.500" | 3.068" >2 pipes Yes, for 2 1/2" 8'-0" 24" No 6: 1 3" STD | 3.500" | 3.068" >2 pipes Yes, for 3" 6: 1 11'-3" No 3" STD | 3.500" | 3.068' >2 pipes 3 1/2" 14'-8" 38 1/2 " 6:1 No Yes 4" STD | 4.500" | 4.026' 45 1/2" 7'-11 Yes Yes 6:1 4" STD 4.500" 4.026" 4 1/2" 52 1/2" 6:1 21'-2" Yes Yes 4" STD 4.500" 4.026'

Dimension "D" is based on ASTM C-76, Class III, Wall "B" thickness. If any other wall thickness is used, dimension "D" must be adjusted accordingly.

GENERAL NOTES:

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

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

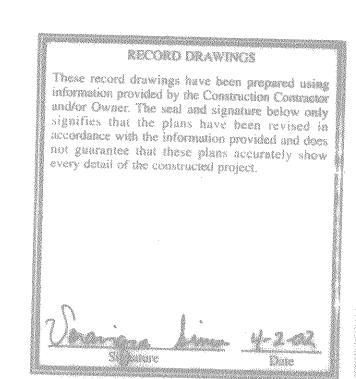
- A. Minimum reinforcing shall be #4 at 6" (Grade 40) or #4 at 9" (Grade 60) each way or 6 x 6 W12 x W12 or 5 x 5 W10 x W10 welded wire fabric.
- B. Concrete for precast (steel formed) sections shall be CI. "A"

At the option and expense of the Contractor the next larger size of Safety End Treatment may be furnished; as long as the "D" dimension cast is that of the required size of pipe.

Pipe Runners are designed for a traversing load of 10,000 Lbs at yield as recommended by Research Report 280-2F, "Safety Treatment of Roadside Parallel-Drainage Structures", Texas Transportation Institute, March 1981.

Pipe Runners shall conform to the requirements of ASTM A53 (Type E or S, Grade B), ASTM A500 (Grade B), or API 5LX52.

All steel components except reinforcing, shall be galvanized after fabrication. Galvanizing damaged during transport or construction shall be repaired in accordance with the specifications.



Texas Department of Transportation

Bridge Division

PRECAST SAFETY END TREATMENT

TYPE II ~ PARALLEL DRAINAGE

PSET-SP

DN: RLW CK: KLR DW: JTR CK: GAF

TXDOT September 2000 DISTRICT FEDERAL AID PROJECT SHEET

REVISIONS G2A

COUNTY CONTROL SECT JOB HIGHWAY