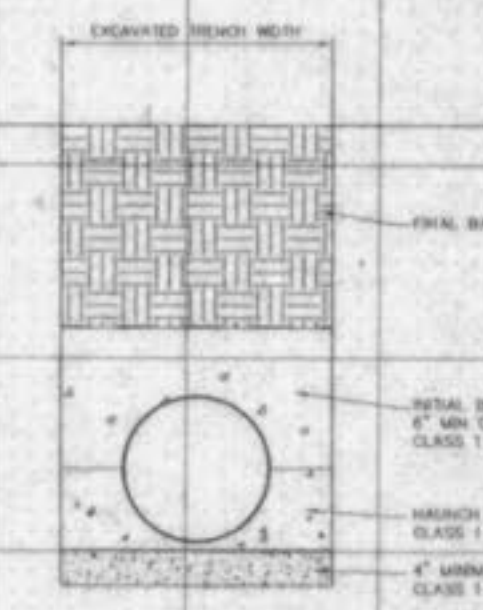


H.D.P.E. PIPE DETAIL



- The use of High Density Polyethylene Corrugated pipe A.S.T.M. N12 or Equal will be permitted as an acceptable alternative to reinforced concrete pipe. Pipe shall meet A.S.T.M. D-2321 and A.S.T.M. M-242-82. Concrete bases and sections and steel structures shall be required. Pipe shall have smooth interior wall and is not to be used inside the Public Right-of-Way.
- In typical conditions the minimum trench width is determined by the size of the pipe and the ability to get compaction equipment between the pipe and the trench walls. The minimum trench width should not be less than the outside diameter plus 18 inches or the pipe outside diameter times 1.25 plus 12 inches, whichever is greater. High speed trenchers may provide satisfactory installation of pipe in narrower trenches. Poor trench wall conditions such as sand, silt, cutting sands, or expansive clays will require substantially wider backfill with a deeper foundation and bedding. Trench width and foundation shall be based on a thorough site investigation.
- Backfill in the area up to the springs should be carefully placed and compacted to achieve a minimum E value of 1,000 per inch detailed in ASTM D3321. A minimum of 12" of backfill should be placed and compacted above the crown of the pipe. It is typical for trenches to be backfilled entirely with Type II or Type III material when under pavement.
- Flexible pipe should never be installed in a concrete cradle, as done for rigid pipe in a Class A installation. The type of installation could create concentrated forces at the ends of the cradle when the pipe has deflected.

APPROVED
2/25/98
Ann Carter
Revised

SCALE: 1" = 50' HORIZONTAL
1" = 10' VERTICAL