NOTES:

1. Protective cover shall be constructed prior to running heavy equipment over installed pipes. The minimum covers are listed below:
   a) 1.5 ft for \( B_e \leq 18" 
   b) 3 ft for \( 18" < B_e \leq 54" 
   c) 6 ft for \( B_e > 54" 

2. For backfill purposes, paved shoulders, curbs, and sidewalks are considered pavement. See Standard Drawing E 715-BKFL-10 for pavement limits when curbs, paved shoulders, or sidewalks are present.

3. Passable or structural backfill shall be accepted by compacted earth backfill. The minimum backfill shall be 2 ft. If necessary, the 2:1 slope between the surface of structure backfill and the embankment shall be modified to maintain the minimum 2 ft backfill.

4. Geostats shall be required if coarse aggregate is used. Geostats should extend 1 foot beyond each edge of the standard trench or toe of slope.

LEGEND

- \( H_e \) = Overall diameter or rise (ft)
- \( B_e \) = Overall diameter or span
- \( A \) = 18" min. for fill height less than 18" 
  = 12" min. for fill height of 18" or more
- \( V_e \) = 12" for \( B_e < 18" 
  = 19" for \( B_e > 18" 
- \( W \) = 0.5 \( B_e \) or 5', whichever is greater
- \( E \) = Embankment
- \( L_e \) = Backfill length measured from toe to toe of the 2:1 slope.

INDIANA DEPARTMENT OF TRANSPORTATION

PIPE BACKFILL METHOD 2
CLASS II, IV, V AND VI DRIVES, EMBANKMENT

SEPTEMBER 2007

STANDARD DRAWING NO. E 715-BKFL-07

[Signatures and dates for design and final approval]