NOTES:
1. Protective cover shall be constructed prior to running heavy equipment over travelled pipes. The minimum covers are listed below:
   a) 1.5' for $B_i < 15'$
   b) 2' for $15' < B_i < 30'$
   c) 3' for $B_i > 30'$
2. For backfill purposes, paved shoulders, curbs, and sidewalk are considered pavement. See Standard Drawing E 715-BKFL-10 for pavement limits when curbs, paved shoulders, or sidewalks are present.
3. Flowable or structure backfill shall be excavated by compacted earth backfill. The minimum excavation shall be 1 ft. If necessary, the 2:1 slope between the flowable or structure backfill and the excavation shall be modified to maintain the minimum 2:1 excavation.
4. Geotextile required if course aggregate is used. Geotextile should extend 1 foot beyond each edge of the excavated trench or toe of slope.

LEGEND
- $R_b$ = Overall diameter or rise (typ.)
- $B_r$ = Overall diameter or span
- $A$ = 9" min. for fill height less than 16'
   = 12" min. for fill height of 16" or more
- $V_b$ = 12" for $B_i < 15'$
   = 18" for $B_i > 15'$
- $W$ = 0.5 $R_b$ or 9", whichever is greater
- $L_b$ = Backfill length measured from toe to toe of the 2:1 slope.

INDIANA DEPARTMENT OF TRANSPORTATION
PIPE BACKFILL METHOD 1
NEW ROADWAY, EMBANKMENT
SEPTEMBER 2007
STANDARD DRAWING NO. E 715-BKFL-02

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