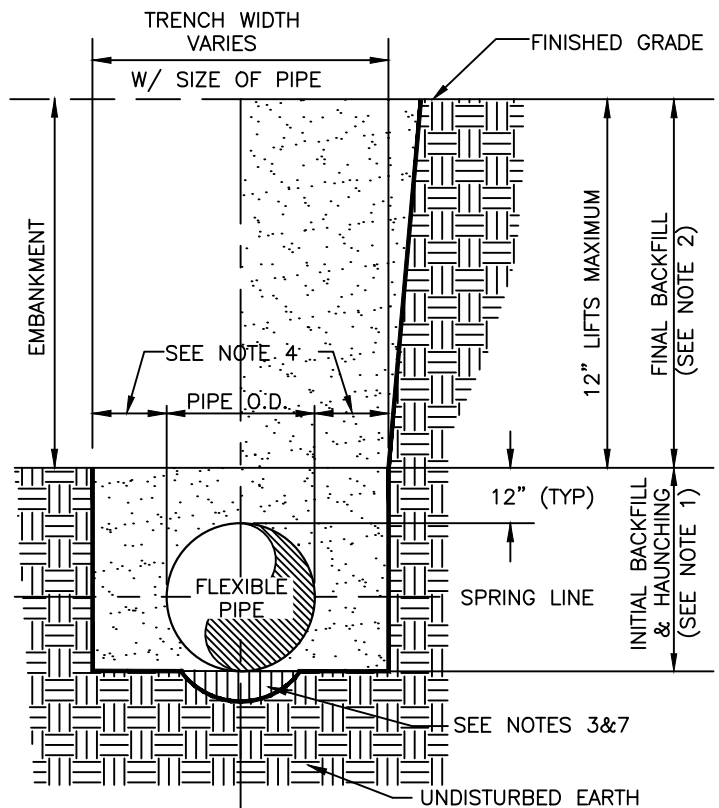


EMBANKMENT SECTION

TRENCH SECTION



EMBANKMENT SECTION

TRENCH SECTION

NOTES:

1. INITIAL BACKFILL & HAUNCHING: MATERIALS CLASSIFIED AS A-1, A-2, OR A-3 (OR A-4 IF CONCRETE PIPE) COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180 IN 6" LIFTS.
2. FINAL BACKFILL: MATERIALS CLASSIFIED AS A-3 OR A-2-4 (15% OR LESS PASSING #200 SIEVE) COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180 IN 12" LIFTS. MATERIALS CLASSIFIED AS A-1, A-2-4 (GREATER THAN 15% PASSING #200 SIEVE), A-2-5, A-2-6, A-2-7, A-4, A-5, A-6, OR A-7 (LIQUID LIMIT LESS THAN 50) COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180 IN 6" LIFTS.
3. SCARIFY 4" MIN. EXISTING SUITABLE SOIL BELOW THE MIDDLE THIRD OF THE OUTSIDE DIAMETER OF THE PIPE. UNSUITABLE SOILS SHALL BE REMOVED AND REPLACED WITH MATERIAL CLASSIFIED AS A-1, A-2, OR A-3 (OR A-4 IF CONCRETE PIPE) UP TO 4" BELOW THE BOTTOM OF THE PIPE.
4. 18" MAX. (12" MIN.) FOR PIPE DIAMETER LESS THAN 24" AND 24" MAX. (18" MIN.) FOR PIPE DIAMETER 48" AND LARGER.
5. WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
6. ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
7. USE UNDERCUTTING DETAIL IF UNSUITABLE MATERIAL IS 4" OR GREATER IN DEPTH OR AS DIRECTED BY THE ENGINEER OF RECORD.
8. FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN MARION COUNTY RIGHT-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF RIGHT-OF-WAY UTILIZATION REGULATIONS AND ROAD CONSTRUCTION SPECIFICATIONS.
9. ONE COMPACTION TEST PER RUN OF PIPE CONNECTING TWO SUCCESSIVE STRUCTURES NOT TO EXCEED 500 LINEAR FEET OR THE LENGTH OF A TRENCH BOX WHEN USED, WHICHEVER IS LESS, SHALL BE REQUIRED FOR EACH LIFT.