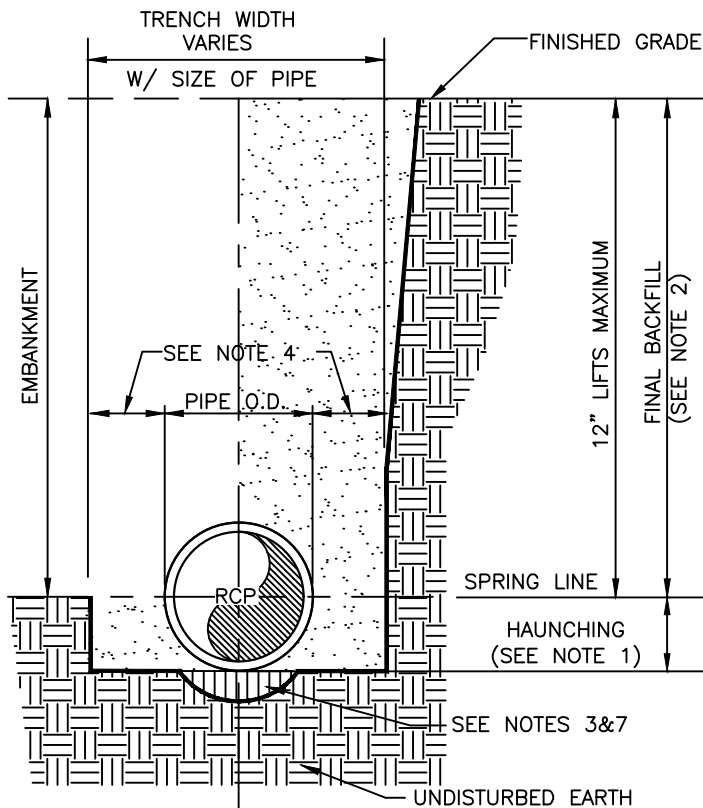
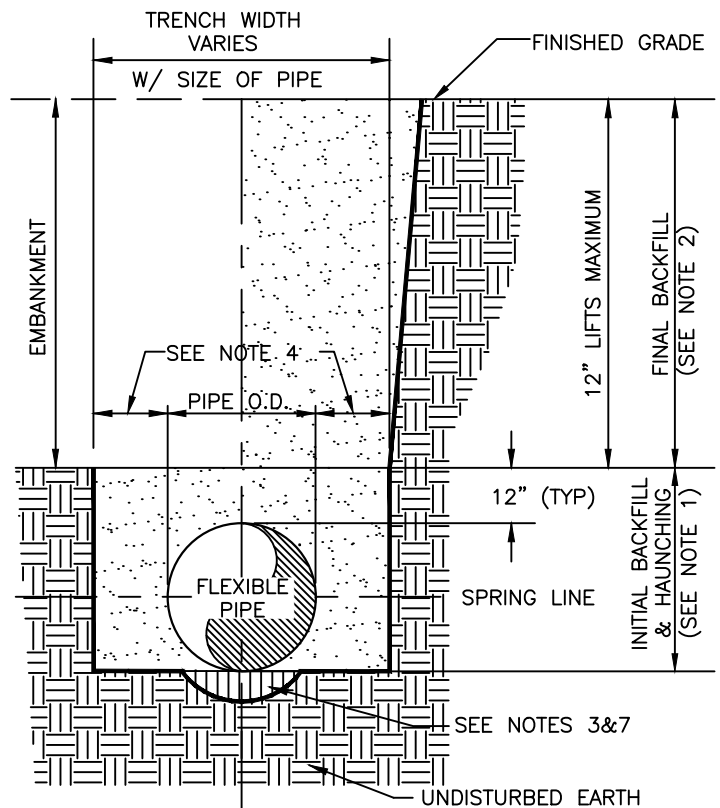




EMBANKMENT
SECTION

TRENCH SECTION



EMBANKMENT
SECTION

TRENCH SECTION

NOTES:

1. INITIAL BACKFILL, HAUNCHING & BEDDING: USE MATERIALS CLASSIFIED AS A-1, A-2, OR A-3 (OR A-4 IF CONCRETE PIPE) COMPACTED TO REQUIRED MAXIMUM DENSITY IN 8" LIFTS. INITIALLY COMPACT UNDER THE HAUNCHES BY HAND TAMPING OR OTHER ACCEPTABLE MEANS IN 4" TO 6" LIFTS UNTIL MECHANICAL COMPACTION CAN BEGIN.
2. FINAL BACKFILL: USE MATERIALS CLASSIFIED AS A-1, A-3 OR A-2-4 (15% OR LESS PASSING #200 SIEVE) COMPACTED TO REQUIRED MAXIMUM DENSITY IN 12" LIFTS. MATERIALS CLASSIFIED AS 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) MAY BE USED WHEN COMPACTED TO REQUIRED MAXIMUM DENSITY IN 8" LIFTS. LIFT THICKNESS MAY BE INCREASED TO 12" WITH VERIFICATION OF SATISFACTORY INSTALLATION AND PERFORMANCE.
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. WRAP BACKFILL WITH FDOT D-4 FILTER FABRIC WHEN USING OPEN GRADED MATERIALS, SUCH AS THOSE CLASSIFIED AS A-1 WITH LITTLE FINES, TO REDUCE THE RISK OF MIGRATION OF FINES FROM ADJACENT MATERIAL.
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. OBTAIN A MINIMUM 95% (100% WHEN COVER HEIGHT IS LESS THAN 15" BELOW THE BOTTOM OF BASE UNDER ASPHALT, BELOW CONCRETE PAVEMENT, OR BELOW UNPAVED GROUND) OF THE STANDARD PROCTOR MAXIMUM DENSITY AS PER AASHTO T-180. SUBSEQUENT TESTING OF BACKFILL LAYERS MAY BE WAIVED BY THE ENGINEER OF RECORD IF INSTALLATION HAS BEEN IN ACCORDANCE WITH APPROVED COMPACTION METHODS AND PERFORMANCE HAS BEEN CONTINUOUSLY SATISFACTORY.