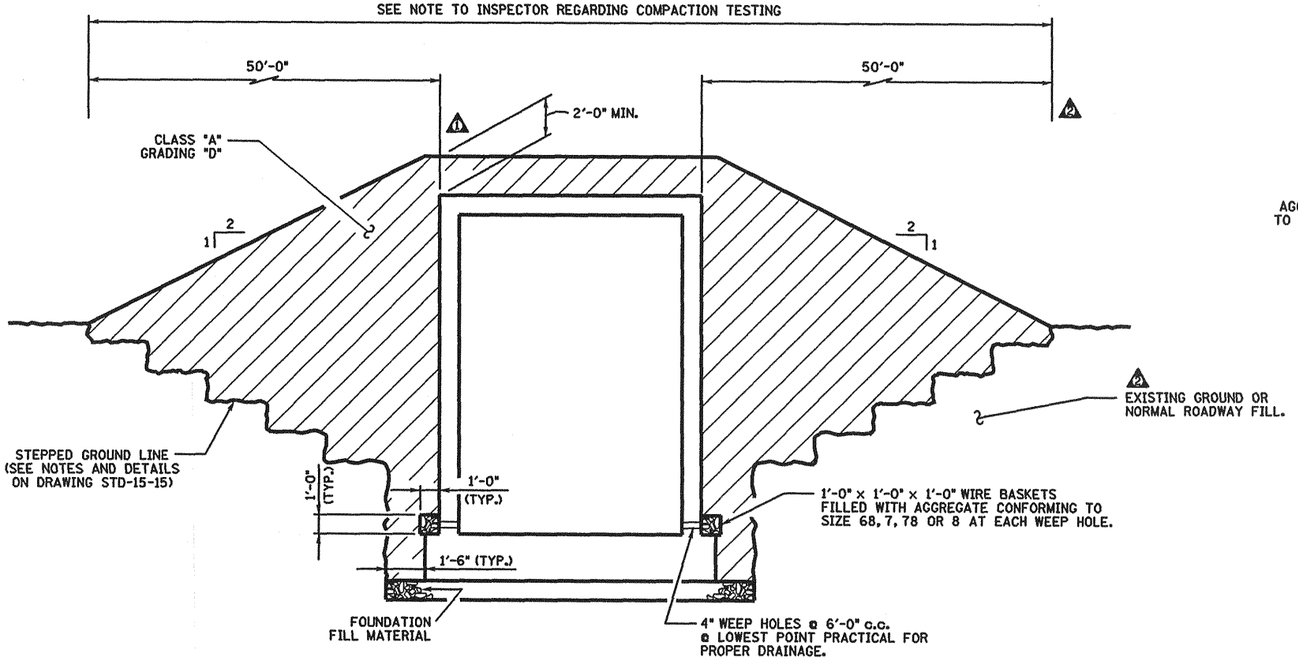
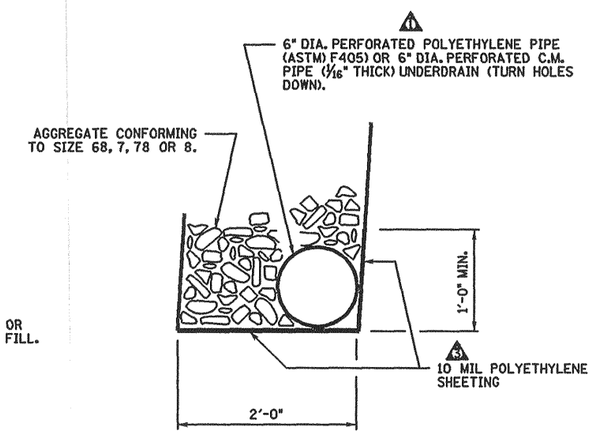
STD155.DGN



BACKFILL PLACEMENT

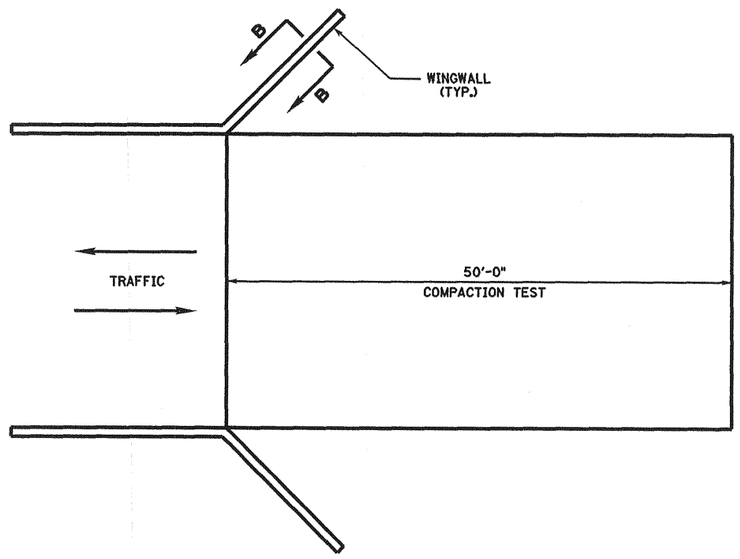
(BOX CULVERT SHOWN; SLAB BRIDGES SIMILAR)

⚠1 NOTE: CLASS "A" GRADING "D" LIMITS ARE TYPICAL FOR BOX CULVERT OR BRIDGE AND WINGWALLS.

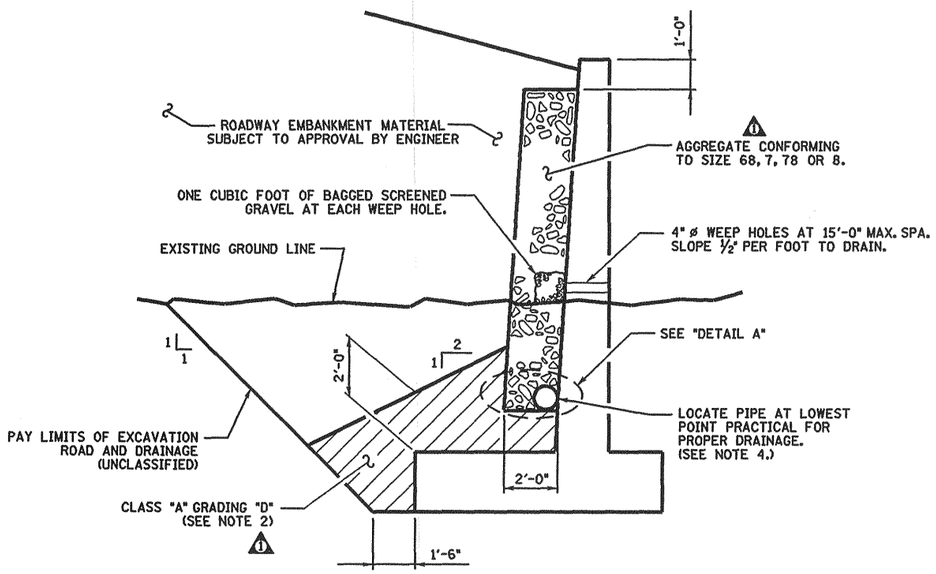


DETAIL A

NOTE TO INSPECTOR: SEE MATERIALS AND TESTS SAMPLING AND TESTING SCHEDULE FOR FREQUENCY OF COMPACTION TESTING OF EMBANKMENT AND BACKFILL MATERIAL. ALSO, NOTE 1.



PLAN OF APPROACH ROADWAY AND CULVERT



WINGWALL SECTION "B-B"

⚠1	REVISIONS		
NO.	DATE	BY	BRIEF DESCRIPTION
1	3-2-02	CMH	EXTENDED LIMITS OF CLASS "A" GRADING AND ADDED REVISION BLOCK. REVISED AND RENUMBERED NOTES.
2	2-28-03	JHW	REVISED DRAWING.
3	6-1-11	JHW	REVISED SHEETING THICKNESS.

NOTES

1. BACKFILLING: UNLESS OTHERWISE SPECIFIED OR DIRECTED, THE CONTRACTOR SHALL BACKFILL BEHIND EXTERIOR WALLS AND WINGWALLS OF BOX AND SLAB TYPE BRIDGES AND CULVERTS AS SOON AS THE FOLLOWING CONDITIONS ARE MET:

   A. CONCRETE SURFACES AGAINST WHICH BACKFILL WILL BE PLACED HAVE BEEN GIVEN A CLASS 1 FINISH AS SPECIFIED IN SUBSECTION 604.22.

   B. REPRESENTATIVE SPECIMENS OF THE CONCRETE IN THE STRUCTURE SECTION OR UNIT, CURED BY THE METHODS AND IN THE MANNER THAT THE CONCRETE WHICH THE TEST SPECIMENS REPRESENT IS CURED, ATTAIN A COMPRESSIVE STRENGTH OF 3000 PSI.

   C. THE CONCRETE SHALL HAVE BEEN PLACED A MINIMUM OF 7 DAYS, NOT COUNTING THE THE DAYS OF TWENTY-FOUR HOURS EACH IN WHICH THE TEMPERATURE FALLS BELOW 40° F OR 21 CALENDAR DAYS WHICHEVER OCCURS FIRST.

   THE PLACEMENT OF BACKFILL AND EMBANKMENT SHALL BE IN ACCORDANCE WITH SUBSECTION 204.11 AND SUBSECTION 205.04, RESPECTIVELY, AND AS SPECIFIED ON THE PLANS.

⚠1 2. IN LIEU OF THE CLASS "A" GRADING "D" MATERIAL SHOWN, CLASS "B" GRADING "C" OR "D" MAY BE USED.

3. BACKFILL: BACKFILLING OF BOX AND SLAB BRIDGES AND WINGWALLS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 204.11 OF THE STANDARD SPECIFICATIONS. THE REQUIREMENTS FOR STEPPING OF BOUNDARY SLOPES TO PREVENT WEDGE ACTION, FOR PROPER LAYERING AND COMPACTING OF BACKFILL, AND FOR MAINTAINING (AT ALL TIMES) EQUAL HEIGHTS OF BACKFILL AGAINST EXTERIOR WALLS OF BOX AND SLAB BRIDGES SHALL BE STRICTLY ENFORCED. SEE STANDARD STD-15-15 FOR OTHER NOTES AND DETAILS.

4. LOCATE PIPE AT LOWEST POINT PRACTICAL FOR PROPER DRAINAGE WITH SLOPE PARALLEL TO ABUTMENT BEAM OR RETAINING WALL (1/8" PER FOOT MINIMUM). INSTALL PIPE AND 1'-0" OF COVER AS SOON AS POSSIBLE AFTER FORMING WALL.

5. WEEP HOLES SHALL BE PROVIDED AT A SPACING NOT TO EXCEED 15 FEET IN THE WINGWALLS AND 6 FEET IN THE BOX OR SLAB BRIDGE EXTERIOR WALLS.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BACKFILL AND DRAINAGE DETAILS

STANDARD REINFORCED CONCRETE BRIDGE BOX AND SLAB TYPE

2000

DESIGNED BY		DATE
DRAWN BY	DIANE BUSH	DATE 12-99
SUPERVISED BY	RLH/JWP/MAH	DATE 12-99
CHECKED BY		DATE

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

STD-15-14

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