NOTES
1. UNDERDRAINS SHALL BE CONNECTED INTO A STORMWATER SYSTEM OR OPEN DRAINWAY AS APPROVED BY THE ENGINEER.
2. UNLESS OTHERWISE SHOWN ON PLANS, UNDERDRAIN SHALL BE INSTALLED UNDER THE ROADWAY DITCH.
3. WHEN TRENCH IS UNDER A ROADBED, PAVED DITCH, OR OTHER STRUCTURE, THE WASHED ROCK BACKFILL MATERIAL AND FILTER CLOTH SHALL COMPLETELY FILL THE TRENCH.
4. NON-PERFORATED PIPE MAY BE USED AT THE OUTLET ENDS OF UNDERDRAINS AS APPROVED BY THE ENGINEER.
5. UNLESS CONNECTED TO A STORMWATER SYSTEM THE OUTFALL END OF AN UNDERDRAIN PIPE SHALL BE COVERED WITH GALVANIZED NO. 17 GAGE HARDWARE CLOTH SCREEN WITH 1/2" x 1/2" MESH OPENINGS. THE SCREEN SHALL CLAMPED ON WITH A STAINLESS STEEL CLAMP. THE OUTFALL END OF THE UNDERDRAIN SHALL BE MARKED WITH A SUITABLE MARKER APPROVED BY THE ENGINEER.
6. THE UPSTREAM END OF THE UNDERDRAIN SHALL COMMENCE WITH A CLEANOUT. CLEANOUTS ARE REQUIRED IN THE UNDERDRAIN PIPE EVERY 150 FEET.

BACKFILL GRADATION CHART

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TYPE A FILTER CLOTH (SEE STANDARD SPECIFICATIONS SECTION 02714)

SLOTS OR PERFORATIONS

60° 60°

8' UNDERDRAIN PIPE MIN (SEE DETAIL)

FLOWLINE DITCH OR FINISH GRADE

FILTER CLOTH SHALL HAVE 1" MIN OVERLAP

WASHED ROCK BACKFILL MATERIAL
SEE BACKFILL GRADATION CHART

4' MIN 6' MAX

D + 1" MIN 20"