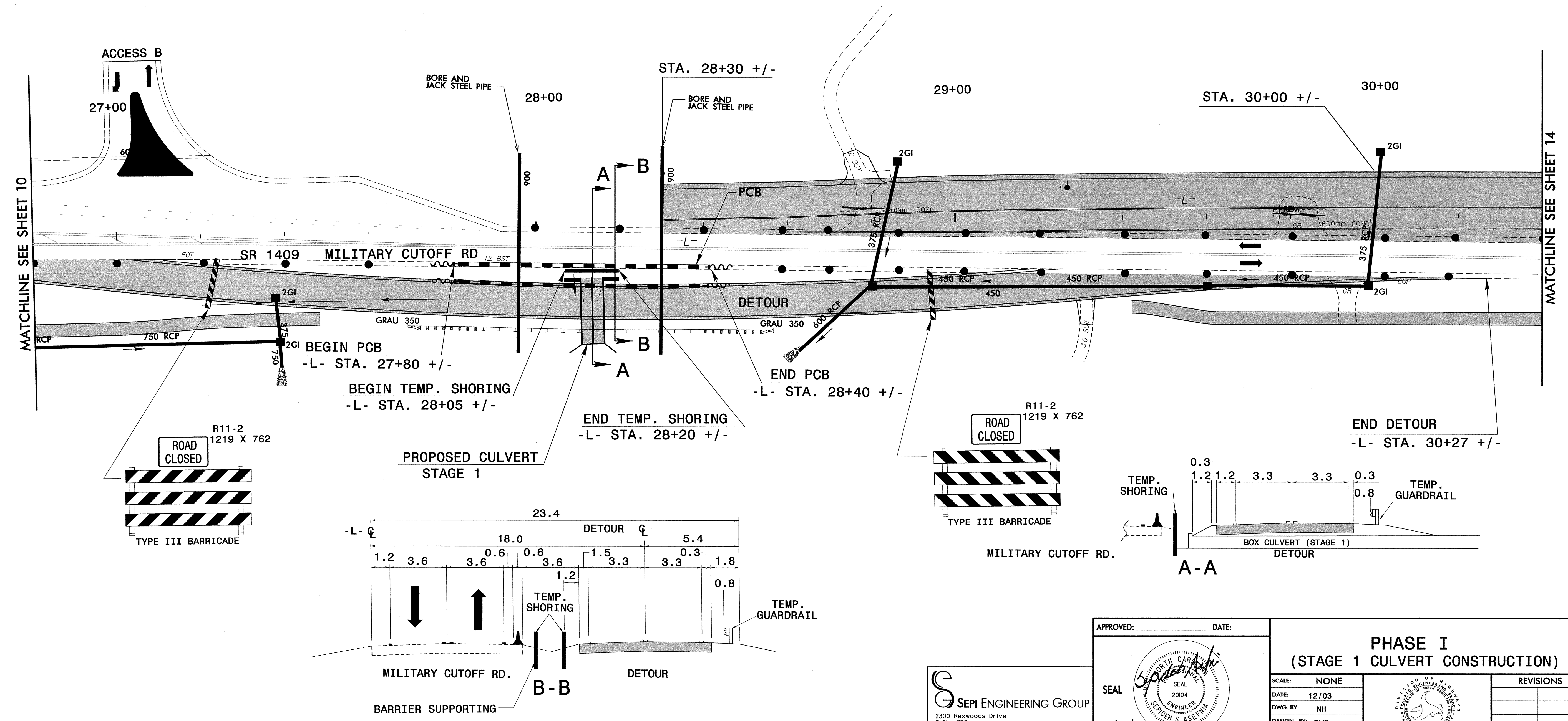
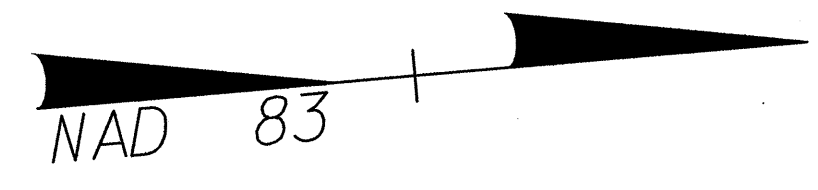




****NOTE:** THE STANDARD SHORING DESIGN CAN BE USED.

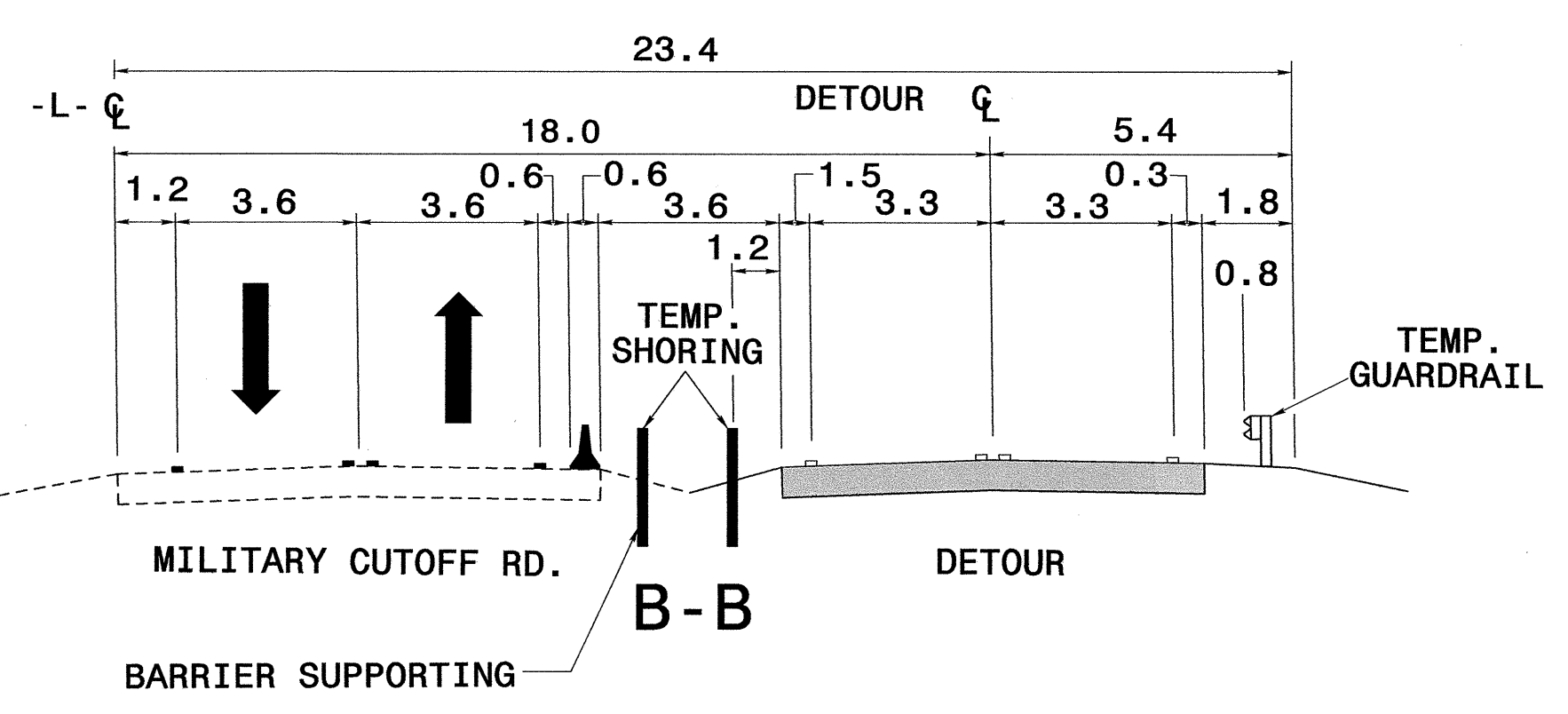
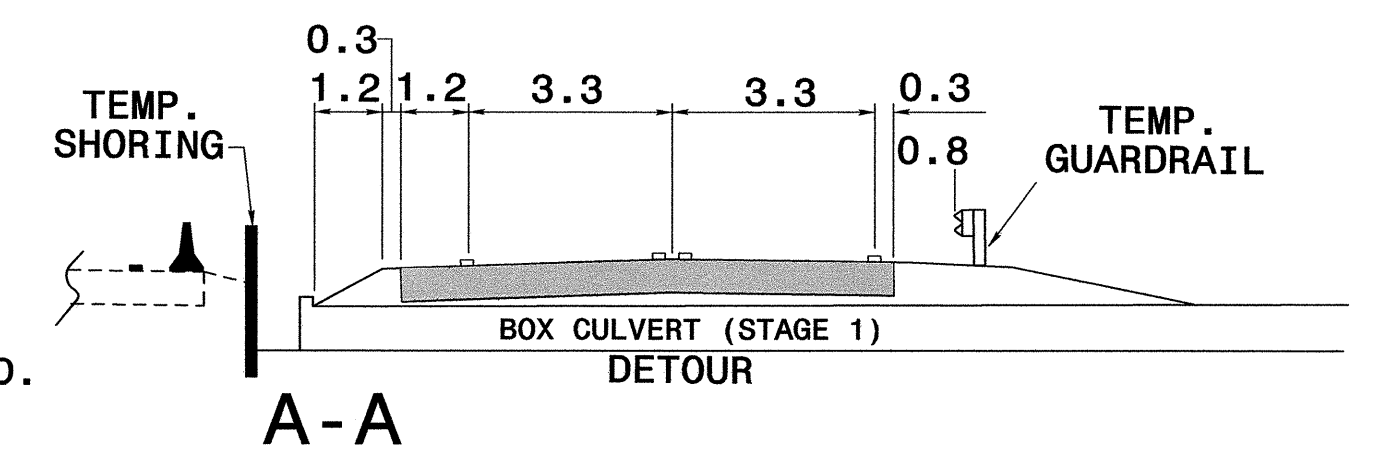
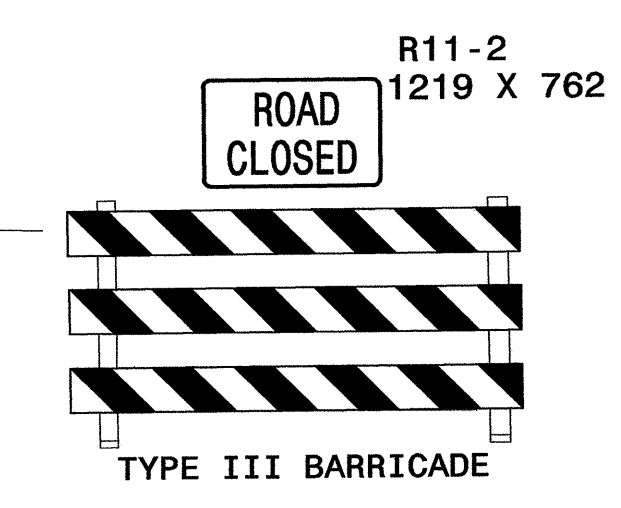
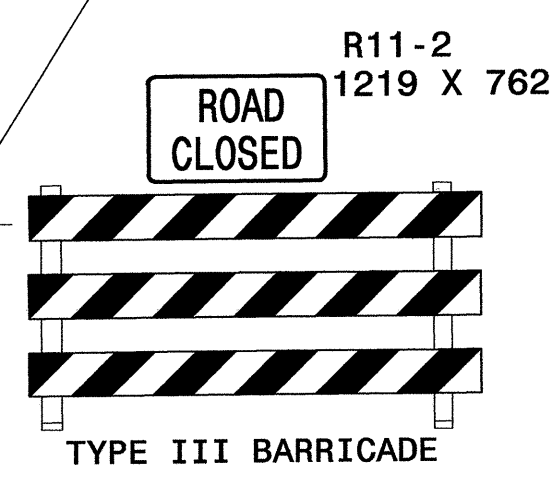
FOR DESIGN OF TEMPORARY SHORING, USE THE FOLLOWING SOIL PARAMETERS FURNISHED BY NCDOT:
 FROM STA. 28+05+/- -L- RT. TO STA. 28+10+/- -L- RT.
 FROM STA. 28+15+/- -L- RT. TO STA. 28+20+/- -L- RT.
 FROM STA. 28+05+/- -L- RT. TO STA. 28+10+/- -L- RT.
 FROM STA. 28+15+/- -L- RT. TO STA. 28+20+/- -L- RT.

ESTIMATED LENGTH OF SHORING = 12m
 ESTIMATED HEIGHT OF SHORING = 3.0m
 UNIT WEIGHT OF SOIL ABOVE WATER TABLE = 18.8 kPa
 UNIT WEIGHT OF SOIL BELOW WATER TABLE = 9.4 kPa
 FRICTION ANGLE $\phi = 30^\circ$
 COHESION = 0 kPa



MATCHLINE SEE SHEET 10

MATCHLINE SEE SHEET 14



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APPROVED: _____ DATE: _____
 SEAL
 2/3/04

**PHASE I
 (STAGE 1 CULVERT CONSTRUCTION)**

SCALE: NONE		REVISIONS
DATE: 12/03		
DESIGN BY: RLW		
REVIEWED BY: SSA		