Commanding Officer   Commanding Officer   9 Oct 69
70th Engr Bn (Cbt)(A)   Co A, 70th Engr Bn
ATTN: EGACEE-A   APO 96297
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1. When placing culvert never under estimate yet weather conditions. If project sites are subject to possible ~~to possible~~ heavy rains make sure all culvert is secured before leaving. Incidents of culvert shifting and moving have occurred even when 6' berms have been placed to detour water. Much delay and extra work can be prevented by properly securing culverts to withstand the hardest and heaviest monsoon rain.

2. Improving Working Conditions During Monsoon Season

Whenever possible, such as at Bridge 31, move the actual work site away from the water subjected area. This reduces extra work such as water diversion or removal. After completion of the project, or whenever the chance arises, change the course of the stream to the desired direction. If water collects in the working area after a rain, an adequate dyke can be built completely around the area and whenever necessary water can be pumped out till the area is dry.

3. Situation: Third platoon of Co A, 70th Engr Bn was trying to build an abutment for a bridge during the monsoon season. Each time the platoon cleaned the footer and began putting the forms in place a heavy rain would cause the stream bypass to overflow covering the footer with sand and silt.
Solution: After the problem occurred we realized a big dyke was needed. The dyke had to be thoroughly compacted to make it strong. A dozer began building a dyke around the abutment site in four inch lifts. The dozer's weight compacted the clay and the wall was built well above the high water mark left when the bypass overflowed. The wall proved successfull in preventing the overflow from the bypass from flooding the abutment site. The wall also proved strong enough to support a rough terrain crane. The crane was able to drive completely around the abutment site and dig out all the sand, silt and clay that had accumulated.

DAVID A CORBETT
CPT, CE
Commanding