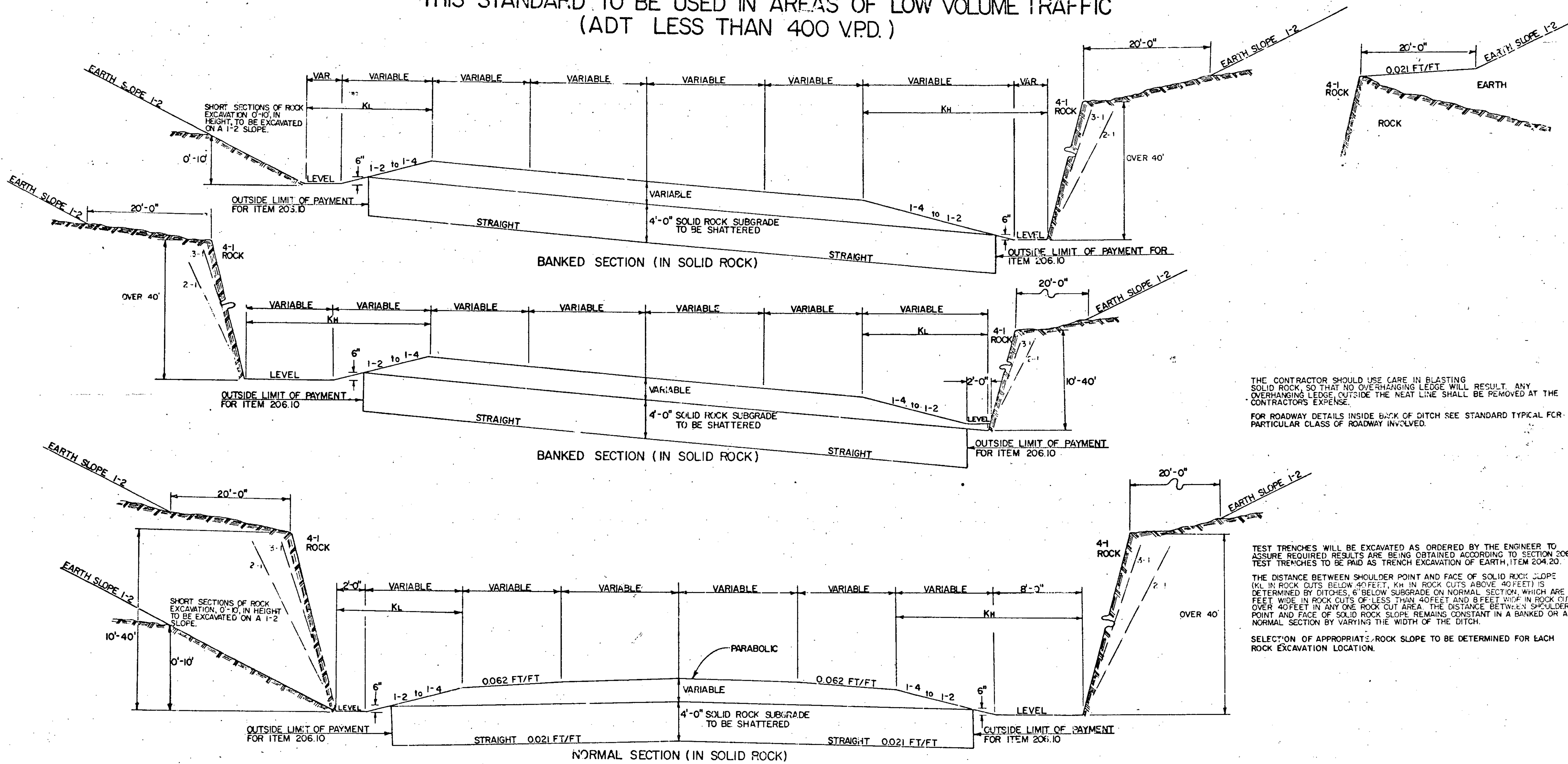


# TYPICALS FOR SLOPES IN SOLID ROCK EXCAVATION

THIS STANDARD TO BE USED IN AREAS OF LOW VOLUME TRAFFIC  
(ADT LESS THAN 400 V.P.D.)



THE CONTRACTOR SHOULD USE CARE IN BLASTING SOLID ROCK, SO THAT NO OVERHANGING LEDGE WILL RESULT. ANY OVERHANGING LEDGE OUTSIDE THE NEAT LINE SHALL BE REMOVED AT THE CONTRACTOR'S EXPENSE.

FOR ROADWAY DETAILS INSIDE BACK OF DITCH SEE STANDARD TYPICAL FOR PARTICULAR CLASS OF ROADWAY INVOLVED.

TEST TRENCHES WILL BE EXCAVATED AS ORDERED BY THE ENGINEER TO ASSURE REQUIRED RESULTS ARE BEING OBTAINED ACCORDING TO SECTION 206. TEST TRENCHES TO BE PAID AS TRENCH EXCAVATION OF EARTH, ITEM 204.20.

THE DISTANCE BETWEEN SHOULDER POINT AND FACE OF SOLID ROCK SLOPE (KL IN ROCK CUTS BELOW 40 FEET, KH IN ROCK CUTS ABOVE 40 FEET) IS DETERMINED BY DITCHES, 6" BELOW SUBGRADE ON NORMAL SECTION, WHICH ARE 2 FEET WIDE IN ROCK CUTS OF LESS THAN 40 FEET AND 8 FEET WIDE IN ROCK CUTS OVER 40 FEET IN ANY ONE ROCK CUT AREA. THE DISTANCE BETWEEN SHOULDER POINT AND FACE OF SOLID ROCK SLOPE REMAINS CONSTANT IN A BANKED OR A NORMAL SECTION BY VARYING THE WIDTH OF THE DITCH.

SELECTION OF APPROPRIATE ROCK SLOPE TO BE DETERMINED FOR EACH ROCK EXCAVATION LOCATION.

REVISIONS AND CORRECTIONS  
APRIL 20, 1973 REVISIONS: ADDED AND VARIABLE SLOPES ADDED  
AUGUST 26, 1981 CHANGED CRITERION FOR USE OF STANDARD FROM LOW SPEED CONDITION TO LOW VOLUME CONDITION.

APPROVED: DATE: Dec. 8, 1971

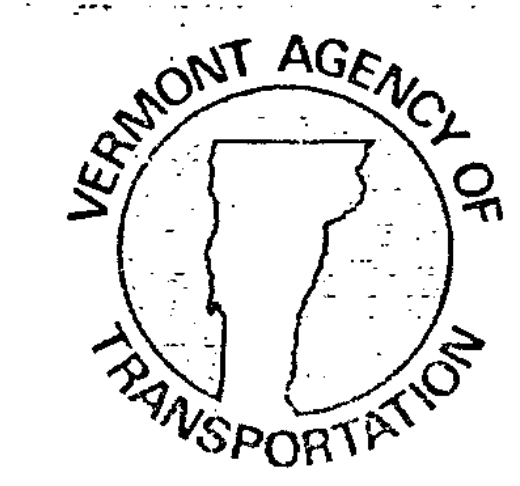
*R. W. Arnold*  
CHIEF ENGINEER

*E. H. Steinhilber*  
ASST. CHIEF ENGINEER

*L. M. Lane*  
HIGHWAY ENGINEER

## STANDARD TYPICAL FOR SLOPES IN SOLID ROCK EXCAVATION

### DRILLING AND BLASTING OF SOLID ROCK SUBGRADE



# STANDARD A-61