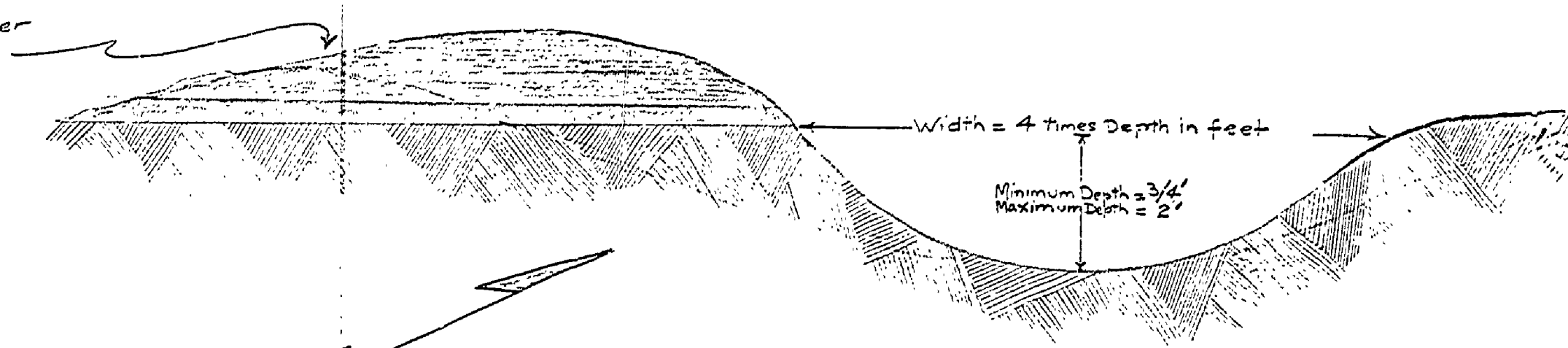


All Excavated Earth to be placed along Gutter on the low Side of the existing Slope



DETAIL OF GUTTER (see note below) FOR WOODS AREA SCALE 1"=1'

WATER LINE ELEV. = 579.5

BILL OF MATERIALS

- 20-Linear feet of 12" Sanitary Sewer Tile
- 280-Linear feet of 4" Drain Tile (Mess Hall)
- 2-Rolls of 45# Roofing Paper (Drain Tile)
- 10-Bbbls of Portland Cement (Headwalls)
- 20-Cu.Yds. of Field Stone (Headwalls)
- 2250-Linear feet of Gutter Construction - (420 Yds. Earth Moved)
- Mandays Required for Completion = 900

NOTE

The Depth of Gutter to be governed by a Minimum Allowable invert Grade of 1.0%. All Gutters passing through Open Areas shall be well sodded throughout. AT TIME OF ACTUAL CONSTRUCTION THE GUTTER WILL BE KEPT AS SHALLOW AS POSSIBLE AND STILL GET NEEDED SLOPE FOR DRAINAGE, AND THE SIDES OF GUTTER WILL BE GRABBED ON AS FLAT A SLOPE AS POSSIBLE TO BLEND GUTTER GRADE INTO THE NATURAL GROUND GRADE.

UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE COOPERATING WITH MICHIGAN DEPARTMENT OF CONSERVATION			
DESIGNED BY	J.W. WELLS STATE PARK	DATE	7/27/34
CHECKED BY	GROUP CAMP DRAINAGE	SCALE	1"=30'
PREPARED BY		DATE	4/21/34
RECOMMENDED		DATE	4/21/34
APPROVED BY		DATE	