



MAP SHOWING FOUNDATION CONDITIONS
IN THE FAIRBANKS D 2 SE QUADRANGLE, ALASKA
BY
TROY L. PÉWÉ AND JOHN W. BELL
1975

Igneous and metamorphic bedrock, exposed primarily on hillsides and steep slopes where loess is less than 3 feet thick, underlies surficial deposits in all the quadrangle. Upper part is weathered. Where permafrost is present, ice content is low or absent but may be higher in weathered bedrock. No subsidence upon thawing of unweathered bedrock but may be slight upon thawing of weathered material. Frost action absent in unweathered bedrock but may be moderate in dissected bedrock. Unweathered bedrock has high bearing strength.

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Reworked silt in valley bottoms and on lower slopes; 3-30 feet thick. Perennially frozen; moderate to high ice content as seams, lenses, and large foliated ice masses. Large ice content may be low and permafrost sporadic; near unfrozen loess zone up slope. Great differential subsidence upon thawing. Seasonal frost action intense. Permafrost causes poor drainage. High bearing strength when frozen or dry; very low when wet or thawed. Subject to sloughing and sliding upon thawing. Very susceptible to gullying.

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