PARTS OF NEWTON & NORWOOD QUADRANGLES

SHOWING

DISTRIBUTION OF SOIL MATERIALS, BEDROCK EXPOSURES AND SAND AND GRAVEL PITS
ALONG AND ADJACENT TO PROJECTED RELOCATION OF ROUTE 128

SCALE

SOALE

SO

GEOLOGY COMPILED BY J. H. HARTSHORN

EXPLANATION

TILL SAND AND SILT; UNDIFFERENTIATED gm - ground moraine, a heterogeneous deposit of mixed lo - low outwash; fine grained outwash sands and silts boulders, cobbles, pebbles, sand, and clay; known at low levels. locally as "hardpan"; in many places covered by a few inches to a few feet of fine-textured windblown sand. SAND PREDOMINANT 0000 op - outwash; medium to fine grained sands at low levels. BEDROCK DOMINANT kt - kame terrace; moderately flat topped area of coarse to fine sand; few beds of gravel, especially at top. br - dark red shows areas where surface is completely k - kame and kame field; irregular hillocks or groups of bedrock; light red shows areas where till or gravel hillocks; composed mostly of sand, but with a few mantles the surface, with bedrock discontinuously beds of gravel. exposed or buried under thin surficial material, GRAVEL AND SAND UNDIFFERENTIATED kd - kame delta; flat topped deltaic deposit; gravel in horizontal topset beds; foreset beds of sand and s - swamps are composed of peat and silty to sandy peat gravel. at the surface and are underlain by clay, silt, sand, kt - flat to greatly pitted and eroded surface underlain gravel, or till. by coarse to medium gravels and sands. k - kame and kame field; irregular hillocks or groups of hillocks; diagonal ruling indicates areas worked over by man, in which original topographic features are FILL (af) not now recognizable. approximate unit boundary GRAVEL OF COARSE TO MEDIUM TEXTURE PREDOMINANT ic - ice-channel filling, an elongated ridge (esker) with Chief sources of coarse granular material steep sides; composed mostly of coarse to medium probable unit boundary gravels, with numerous cobbles and boulders. kt - kame terrace; moderately flat to pitted deposit of mixed gravels and sands, but mostly coarse gravel. k - kame; a series of hillocks dominantly coarse to centerline of projected highway or lane; dotted medium gravel; brown stripes indicate areas of when it coincides with present road interbedded till. gravel pits GRAVEL OF COARSE TO MEDIUM TEXTURE PREDOMINANT, active and inactive BUT WITH INTERBEDDED TILL kt - kame terrace; moderately flat to rolling top; composed of dominantly cobble gravel, with lenses and beds of hard, clayey brown till.