		EXPLANATION Explanation	Topographic expression	Posts 4	Deep excavations 1/	Utility Shallow excavations	Materials 3/
Pattern	Splitting character	Predominant control	and weathering	Rock type		Characteristics sim-	Suitable for monu
la	Blocks, mostly lar- ger than 1 m in	Joints	Shallow swales or with no expression. Weath-	Nonfoliated granite.	Fesh inntact rock re- quires drilling and	ilar to those for	stone but most
Class	diameter.		ering largely granu-	(Westerly	blasting. Rock	deep excavations,	is in dikes too
			lar disintegration with little penetra-	Granite).	hard, tough, and homogeneous. Will	but joints more frequent and more	narrow to provi
			tion.		stand without sup-	open near surface.	quantity and
					port in tunnels and deep excavations.		quality. Suitab
					Joints widely spaced		probably aggreg
					and tight at depth.		but size of dik
1b	Large blocks and	Foliation, joints.	Massive ledges, the	Alaskite	Same as (la)	Same as (la) except	Suitable for dime
	slabs, mostly larger than 2 m	Joints widely spaced. Back	size of which is determined by the	gneiss,		weathering causes	stone, but more
	in width.	joint, end joint,	thickness of the	poor		along foliation	than (la) becau
		and sheeting prom-	mass and the spac-	gneiss.		surfaces.	of foliation an
		inent. Parting parallel to folia-	ing of joints. Weathering largely	(Alaskite gneiss,		an alleganish a	Finer grained r
		tion less promin-	granular disaggre-	Mamacoke			suitable for cr
		ent than jointing. Locally additional	gation with little penetration.	Formation).			rock.
		parting planes along					
		biotitic or horn- blendic screens or			ige sharps	- rground bullet	
		septa parallel to					
		the foliation.					
2	Thick slabs, greater	Foliation, joints. Sim-	Large ledges, the ex-	Granite to	Similar to (lb) but	Similar to (lb).	Mostly suitable
	than 1 m in width.			grano-	rock less homo-	Weathering causes	dimension stor
		parallel to foliation	controlled by	diorite	geneous.	incipient parting	and riprap.
		less than or as importa	and thickness and	gneiss.		along foliation surfaces.	Darker colored
		parting planes along	dip of layering.	Formation).			for riprap be
		more or less biotitic	Weathering largely				of higher spec
		and hornblendic layers where planar. Gneiss	granular disaggre- gation with shallow				gravity.
		Containing many cross-	penetration.				
		Eutting pegmatite and	Less resistant to				
		Which the foliation	(lb).				
		and layering is folded					
		may break into irregu- larly shaped blocks.					
20	Slabs, 10 cm to	Foliation, compositional	Low ledges, ridges and	Biotite-	Same as (2)	Similar to (lb).	Suitable for cru
3a	1 m in width.	layering. Joints prom-		quartz-	Dame as (2)	Weathering causes	rock, riprap a
		inent, but rock has	of more and less re-	feldspar		parting along fol-	dimension ston
		Split along foliation	ering similar to (2)	gneiss;		iation and layering surfages rich in	
		surfaces and layering	except for somewhat	feldspar-		platy minerals.	
		particularly where	more rapid disaggre-	quartz			
		planar. Potential parting planes may be	gation and deeper	gneiss;			
		inconspicuous in fresh	weathering along	lite.			
		intact rock and may	surfaces of foliation	(Mamacoke			
		only be recognized by color banding indicat-	and layering.	Formation).			
		ing micaceous seams or					
		more and less micaceous layers.	13				
21							
3ъ							
	Small blocks less	Joints, bedding. Prominent parting	Low ledges and knobs. Extremely resistant to	Thick-bedded quartzite	Rock extremely com-	Hydration of mica-	
		Action of the state of the second second	The same of the sa	Thick-bedded quartzite with thin	Rock extremely com- petent and hard but greatly weak-	Hydration of mica- rich seams and laminae decreases	
::::: = 1	than 1 m in	Prominent parting along bedding planes. Conspicu-	Extremely resistant to weathering, but unless in a thick series of	quartzite with thin micaceous	petent and hard but greatly weak- ened by inter-	rich seams and laminae decreases coefficient of	Might be suita
::::: = 1	than 1 m in	Prominent parting	Extremely resistant to weathering, but unless	quartzite with thin	petent and hard but greatly weak- ened by inter- layering of mica-	rich seams and laminae decreases coefficient of friction along	Might be suita
::::: = 1	than 1 m in	Prominent parting along bedding planes. Conspicu- ous back joints and end joints whose frequency is roughly inversely	Extremely resistant to weathering, but unless in a thick series of beds, does not form	quartzite with thin micaceous partings.	petent and hard but greatly weak- ened by inter-	rich seams and laminae decreases coefficient of	Might be suita
::::: = 1	than 1 m in	Prominent parting along bedding planes. Conspicu- ous back joints and end joints whose frequency is roughly inversely proportional to	Extremely resistant to weathering, but unless in a thick series of beds, does not form large ledges because of brittleness. Part- ing along bedding which	quartzite with thin micaceous partings. (Plainfield	petent and hard but greatly weak- ened by inter- layering of mica- schist. Strata inclined into excavations are	rich seams and laminae decreases coefficient of friction along parting surfaces so that slabs will slide down	Might be suita
::::: = 1	than 1 m in	Prominent parting along bedding planes. Conspicu- ous back joints and end joints whose frequency is roughly inversely	Extremely resistant to weathering, but unless in a thick series of beds, does not form large ledges because of brittleness. Part-	quartzite with thin micaceous partings. (Plainfield	petent and hard but greatly weak- ened by inter- layering of mica- schist. Strata inclined into	rich seams and laminae decreases coefficient of friction along parting surfaces so that slabs	Might be suita
	than 1 m in	Prominent parting along bedding planes. Conspicu- ous back joints and end joints whose frequency is roughly inversely proportional to thickness of layers and total thickness of sequence of quart-	Extremely resistant to weathering, but unless in a thick series of beds, does not form large ledges because of brittleness. Part- ing along bedding which is usually less than l m thick combined with jointing at similar	quartzite with thin micaceous partings. (Plainfield	petent and hard but greatly weak- ened by inter- layering of mica- schist. Strata inclined into excavations are subject to sliding	rich seams and laminae decreases coefficient of friction along parting surfaces so that slabs will slide down	Might be suits
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	than 1 m in	Prominent parting along bedding planes. Conspicu- ous back joints and end joints whose frequency is roughly inversely proportional to thickness of layers and total thickness of sequence of quart-	Extremely resistant to weathering, but unless in a thick series of beds, does not form large ledges because of brittleness. Part- ing along bedding which is usually less than l m thick combined with jointing at similar frequency causes break-	quartzite with thin micaceous partings. (Plainfield	petent and hard but greatly weak- ened by inter- layering of mica- schist. Strata inclined into excavations are subject to sliding down dip.	rich seams and laminae decreases coefficient of friction along parting surfaces so that slabs will slide down dip.	Might be suita in places for facing stone.
	Thin slabs (flags), 1 cm to 10 cm in	Prominent parting along bedding planes. Conspicu- ous back joints and end joints whose frequency is roughly inversely proportional to thickness of layers and total thickness of sequence of quart- zite layers	Extremely resistant to weathering, but unless in a thick series of beds, does not form large ledges because of brittleness. Part- ing along bedding which is usually less than l m thick combined with jointing at similar frequency causes break- down into small blocks.	quartzite with thin micaceous partings. (Plainfield Formation).	petent and hard but greatly weak- ened by inter- layering of mica- schist. Strata inclined into excavations are subject to sliding	rich seams and laminae decreases coefficient of friction along parting surfaces so that slabs will slide down	Might be suita in places for facing stone.
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sep- unit , but t as with-	Thin slabs (flags), 1 cm to 10 cm in width. Irregular slabs and sheets, less than 1 cm	Prominent parting along bedding planes. Conspicu- ous back joints and end joints whose frequency is roughly inversely proportional to thickness of layers and total thickness of sequence of quart- zite layers Foliation, compositional layering. Influence of joints subordinate to influence of closely spaced foliation and compositional layering. Parting planes conspicuous along mica-rich seams and layers, and boun- daries between layers differing greatly in composition. Foliation. I	Extremely resistant to weathering, but unless in a thick series of beds, does not form large ledges because of brittleness. Part- ing along bedding which is usually less than I m thick combined with jointing at similar frequency causes break- down into small blocks. Swales, low areas with minor ridges of rela- tively more resistant or more massive rock. Weathering greater in micaceous layers than in quartzose layers. Weathering creates numerous incipient parting planes along surfaces of foliation and layering to depths of several meters. Strong contrast in resis- tance to weathering be- tween quartzite layers and micaceous and amphi- bolitic layers, but quartzite layers are thin and joints usually closel; spaced so that quartzite tends to break down into a rubble of fragments. Sow areas, swales; where massive or more quart- zose may form low ledges. Weathering penetrates along mica-rich layers	quartzite with thin micaceous partings. (Plainfield Formation). Thin-bedded quartzite and meta- graywacke, schistose gneiss, and calc gneiss. Usually con- tains some interlayered schist (5). (Plainfield Formation).	petent and hard but greatly weak- ened by inter- layering of mica- schist. Strata inclined into excavations are subject to sliding down dip. Similar to (2) except platiness of rock may cause unpre- dicted problems of excavation. Slightly greater overbreak potential and greater possi- bility of water inflow along folia- tion partings than in gneiss (1b), (2), and (3a).	rich seams and laminae decreases coefficient of friction along parting surfaces so that slabs will slide down dip. Partings tend to open along foliation and layering planes in slightly weathered rock; exposed rock may scale, particu- larly in zone of fluctuating water table. Alternate freez-thaw action tends to open seams along joints and foliation surfaces. Similar to (4). Hydration of mica-rich layers and laminae greatly reduces	Fresh rock suital for fill. Where weathered suffit to work with poshovel, useful borrow for fill Quartzitic laye possibly useful flagstone where layering is plan and not folded. Similar to (4), but parting surfaces tend to be rough
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sep- unit b, but at as with-	Thin slabs (flags), 1 cm to 10 cm in width. Irregular slabs and sheets, less than 1 cm	Prominent parting along bedding planes. Conspicu- ous back joints and end joints whose frequency is roughly inversely proportional to thickness of layers and total thickness of sequence of quart- zite layers Foliation, compositional layering. Influence of joints subordinate to influence of closely spaced foliation and compositional layering. Parting planes conspicuous along mica-rich seams and layers, and boun- daries between layers differing greatly in composition. Foliation. I	Extremely resistant to weathering, but unless in a thick series of beds, does not form large ledges because of brittleness. Parting along bedding which is usually less than I m thick combined with jointing at similar frequency causes breakdown into small blocks. Swales, low areas with minor ridges of relatively more resistant or more massive rock. Weathering greater in micaceous layers than in quartzose layers. Weathering creates numerous incipient parting planes along surfaces of foliation and layering to depths of several meters. Strong contrast in resistance to weathering between quartzite layers and micaceous and amphibolitic layers, but quartzite layers and micaceous and amphibolitic layers, but quartzite layers are thin and joints usually closely spaced so that quartzite tends to break down into a rubble of fragments. Sow areas, swales; where massive or more quartzite tends to break down into a rubble of fragments. Sow areas, swales; where massive or more quartzice tends to break down into a rubble of fragments.	quartzite with thin micaceous partings. (Plainfield Formation). Thin-bedded quartzite and meta- graywacke, schistose gneiss, and calc gneiss. Usually con- tains some interlayered schist (5). (Plainfield Formation).	petent and hard but greatly weak- ened by inter- layering of mica- schist. Strata inclined into excavations are subject to sliding down dip. Similar to (2) except platiness of rock may cause unpre- dicted problems of excavation. Slightly greater overbreak potential and greater possi- bility of water inflow along folia- tion partings than in gneiss (1b), (2), and (3a).	rich seams and laminae decreases coefficient of friction along parting surfaces so that slabs will slide down dip. Partings tend to open along foliation and layering planes in slightly weathered rock; exposed rock may scale, particu- larly in zone of fluctuating water table. Alternate freez-thaw action tends to open seams along joints and foliation surfaces. Similar to (4). Hydration of mica-rich layers and laminae greatly reduces coefficient of	Might be suitable in places for facing stone. Fresh rock suitable for fill. Where weathered suffit to work with poshovel, useful borrow for fill Quartzitic layer possibly useful flagstone where layering is plan and not folded. Similar to (4), but parting surfaces tend to be rough and irregular and so less suitable for flagstone or
sep- unit but at as with-	Thin slabs (flags), 1 cm to 10 cm in width. Irregular slabs and sheets, less than 1 cm	Prominent parting along bedding planes. Conspicu- ous back joints and end joints whose frequency is roughly inversely proportional to thickness of layers and total thickness of sequence of quart- zite layers Foliation, compositional layering. Influence of joints subordinate to influence of closely spaced foliation and compositional layering. Parting planes conspicuous along mica-rich seams and layers, and boun- daries between layers differing greatly in composition. Foliation. I	Extremely resistant to weathering, but unless in a thick series of beds, does not form large ledges because of brittleness. Parting along bedding which is usually less than I m thick combined with jointing at similar frequency causes breakdown into small blocks. Swales, low areas with minor ridges of relatively more resistant or more massive rock. Weathering greater in micaceous layers than in quartzose layers. Weathering creates numerous incipient parting planes along surfaces of foliation and layering to depths of several meters. Strong contrast in resistance to weathering between quartzite layers and micaceous and amphibolitic layers, but quartzite layers are thin and joints usually closely spaced so that quartzite tends to break down into a rubble of fragments. Sow areas, swales; where massive or more quartzone massive or more quartzone may form low ledges. Weathering penetrates along mica-rich layers causing discoloration and parting to depths	quartzite with thin micaceous partings. (Plainfield Formation). Thin-bedded quartzite and meta- graywacke, schistose gneiss, and calc gneiss. Usually con- tains some interlayered schist (5). (Plainfield Formation). Biotite schist, calc schist, quartz schist, quartz schist, quartz schist, calc schist. Usually con- tains some interlayered schist (5). (Plainfield Formation).	petent and hard but greatly weak- ened by inter- layering of mica- schist. Strata inclined into excavations are subject to sliding down dip. Similar to (2) except platiness of rock may cause umpre- dicted problems of excavation. Slightly greater overbreak potential and greater possi- bility of water inflow along folia- tion partings than in gneiss (1b), (2), and (3a). Similar to (4), but micaceous min- erals may clog drill bits. In addition repre- sents potential squeezing ground in tunnel as fric-	rich seams and laminae decreases coefficient of friction along parting surfaces so that slabs will slide down dip. Partings tend to open along foliation and layering planes in slightly weathered rock; exposed rock may scale, particu- larly in zone of fluctuating water table. Alternate freez-thaw action tends to open seams along joints and foliation surfaces. Similar to (4). Hydration of mica-rich layers and laminae greatly reduces coefficient of friction along parting surfaces	Fresh rock suitable for fill. Where weathered suffit to work with poshovel, useful borrow for fill Quartzitic layer possibly useful flagstone where layering is plant and not folded. Similar to (4), but parting surfaces tend to be rough and irregular and so less suitable for flagstone or

^{1/} Tunnels, large masonry dams, deep bridge abutments, high-rise and underground buildings

^{2/} Highway cuts, bridge abutments and piers, small dams and buildings

^{3/} Dimension stone, facing stone, riprap, crushed stone, aggregate, fill, flagstone