



MATERIALS

1. Drainage Sand and Gravel should meet the following gradation (Modified City of Seattle Type 26):

Sieve Size	% Passing by Weight
1-inch	100
3/4-inch	85 to 95
1/4-inch	30 to 60
No. 8	20 to 50
No. 50	3 to 12
No. 200	0 to 1
(by wet sieving)	(non-plastic fines)

An alternative drainage sand and gravel is a 50-50 mixture of washed pea gravel and washed concrete sand.

2. Granular backfill to consist of suitable on-site or imported clean, well-graded sand and gravel or crushed rock; either material must meet the following gradation criteria (City of Seattle Type No. 17);

Sieve Size	% Passing by Weight
3-inch	95-100
1/4-inch	25 -75
No. 200	0 to 5
(by wet sieving)	(non-plastic fines)

NOTE

This figure is not for construction. It should only be used for information pertaining to potential design concepts. Final design should be based on site-specific conditions and accomplished by a geotechnical engineer licensed as a professional engineer.

Seattle Landslide Study
Seattle Public Utilities
Seattle, Washington

TYPICAL FILL BUTTRESS

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FIG. 2-18