

EARTHWORK COMPUTATIONS (PAY ITEM OF EMBANKMENT)*

Fill	10,000 C.Y.
Cut (usable)	- 4,000 C.Y.
Embankment	6,000 C.Y.

Fill quantity includes mainline, connections, entrances, etc., plus any area such as material removed from below fill that needs to be replaced.

Cut (usable) includes plan and non-plan quantity minus any unsuitable material.

COMPUTATIONS FOR GRADING DIAGRAM:

Example: Compaction Factor of 18% Shrinkage

Right Side of Roadway

3679 C.Y.	cut (measured)
- 561 C.Y.	rootmat in cut (unusable material)
3118 C.Y.	usable excavation (measured)
x 0.82	(18% Shrinkage factor)
2557 C.Y.	usable excavation (adjusted)

395 C.Y.	fill (measured)
+141 C.Y.	rootmat in fill (to be backfilled)
536 C.Y.	fill (measured)

2557 C.Y.	usable excavation (adjusted)
-536 C.Y.	fill (measured)
2021 C.Y.	extra usable excavation (adjusted)

2021 C.Y.	usable excavation (adjusted) = 2465 C.Y. haul (measured)
0.82	

* Added 7/14