

SWAMP TREATMENT

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

9A
85

LAKE COUNTY
LAK-20-5.54

TRENCHING AND BACKFILLING shall be carried progressively across the swamp and so coordinated as to leave an open trench not to exceed in length, at any time, the working reach of the equipment used for swamp excavation.

FILL shall be constructed by the method of end dumping, using granular material, up to the elevations designated on the plan. Embankment required above this elevation, if any, shall be constructed in accordance with 203.07 of the Construction and Materials Specifications.

EXCAVATION of unsuitable material ahead of the fill and end dumping of granular material across the bog area shall be advanced in a straight line, for the full embankment width to avoid entrapment of unsuitable material beneath any portion of the fill.

GRANULAR MATERIAL required for swamp treatment shall be specified as "203 Granular Embankment including excavation." The granular material shall meet the requirements of 203.02 of the Construction and Materials Specifications modified to require at least 75%, by weight, of the grains or particles to be retained on the No. 200 sieve.

EXCAVATED UNSUITABLE MATERIAL which is to be used adjacent to fills for slope flattening, or which is piled adjacent to the fill to be disposed of later in accordance with 203.05, shall be shaped to its final position or removed from the area at least two weeks prior to paving operations on the fill.

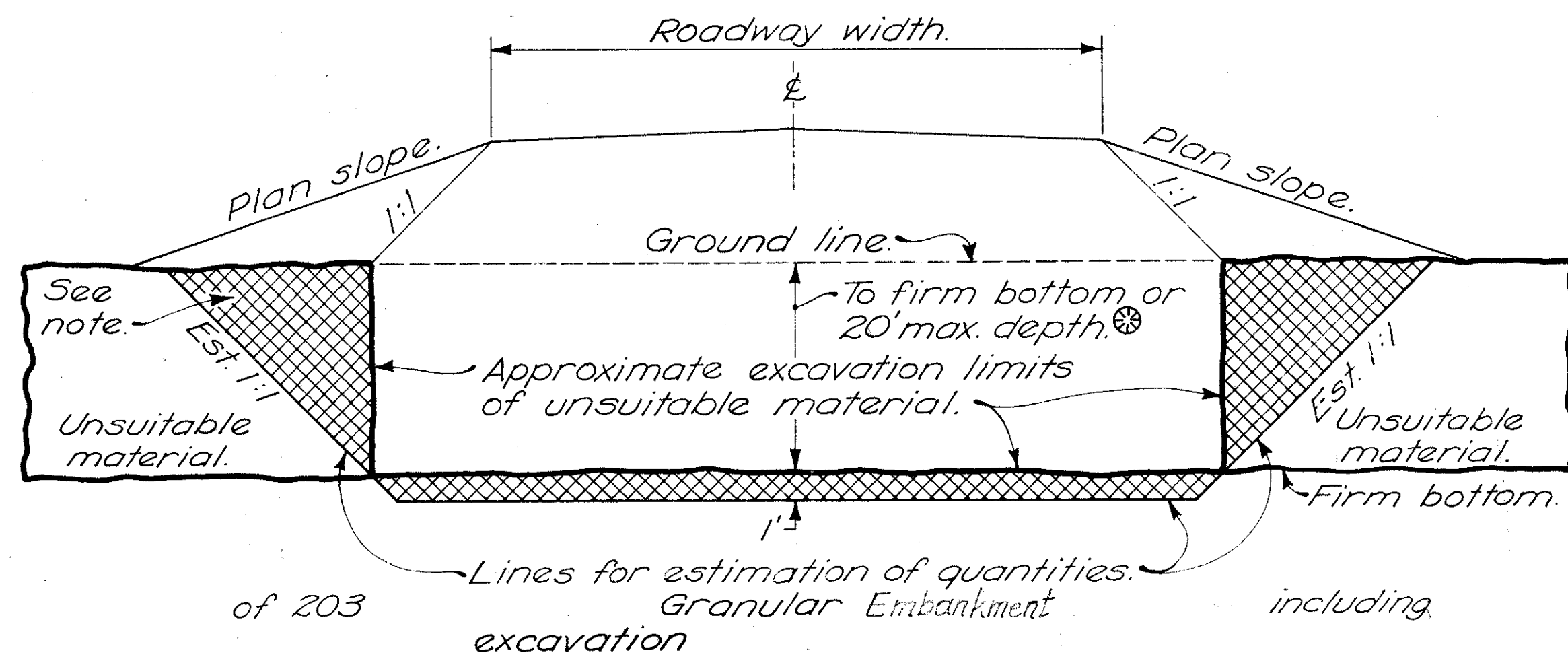
EQUIPMENT used for excavation of unsuitable materials shall be located ahead of the excavation unless otherwise authorized by the Engineer.

COST OF EXCAVATION OF UNSUITABLE MATERIALS between the limiting stations shall be included in the unit price bid for 203 Granular Embankment including excavation. The granular material, used between the limiting stations as embankment above the original ground line, shall be paid for as 203 Granular Embankment including excavation.

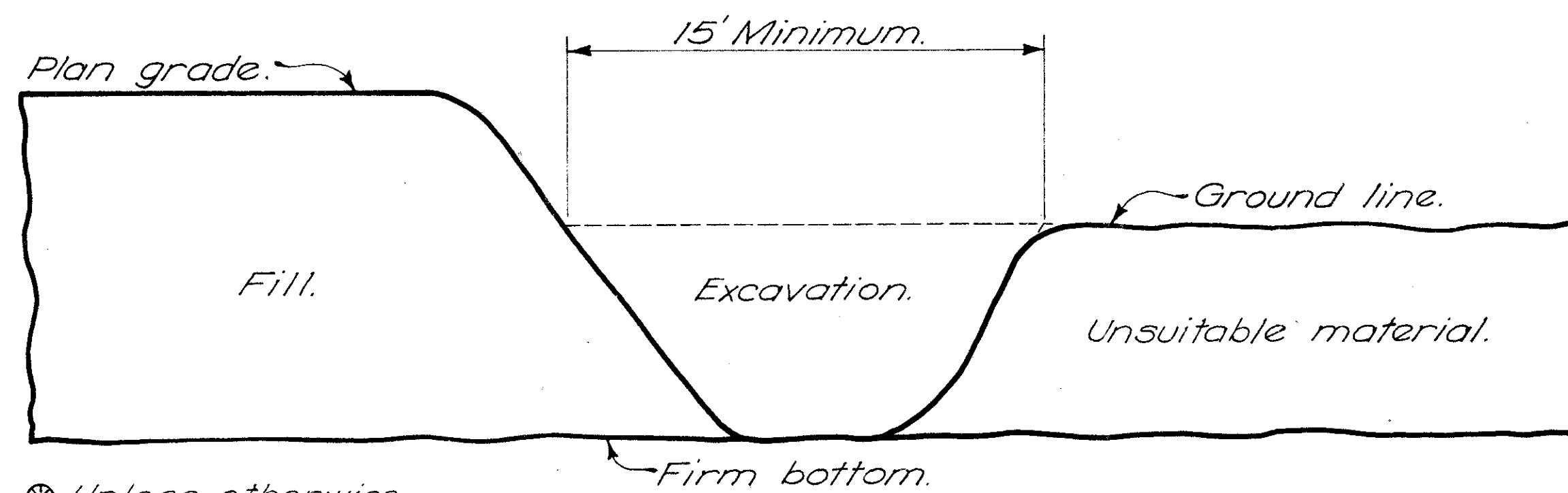
The quantity of granular material shall be determined in accordance with 203.15(e) of the specifications. The quantity of granular material which does not include the cost of excavation, shall be the volume measured in final position by the end area method, plus 5% for compaction, using project cross sections. The quantity of granular material, including the cost of excavation of unsuitable material, shall be the total quantity of granular material as measured by 203.15(e) minus the quantity which does not include the cost of excavation, as determined above.

CROSS-HATCHED sections are included in quantities to allow for possible sloughing and undercutting.

* As shown on the Plans. (Excavation depth will usually be 15'. Height of surcharge, if any, will be indicated on the plans).



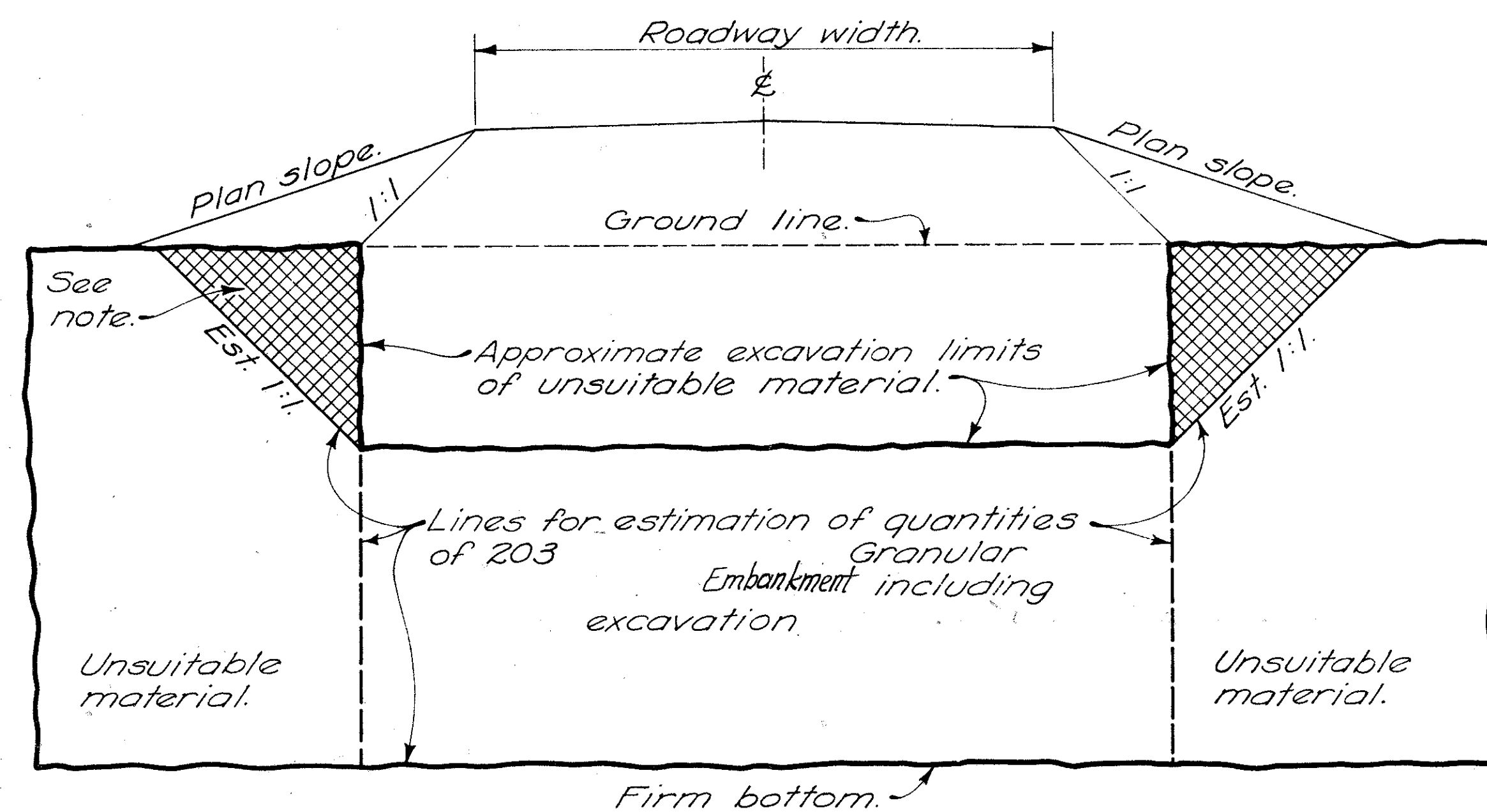
CROSS SECTION



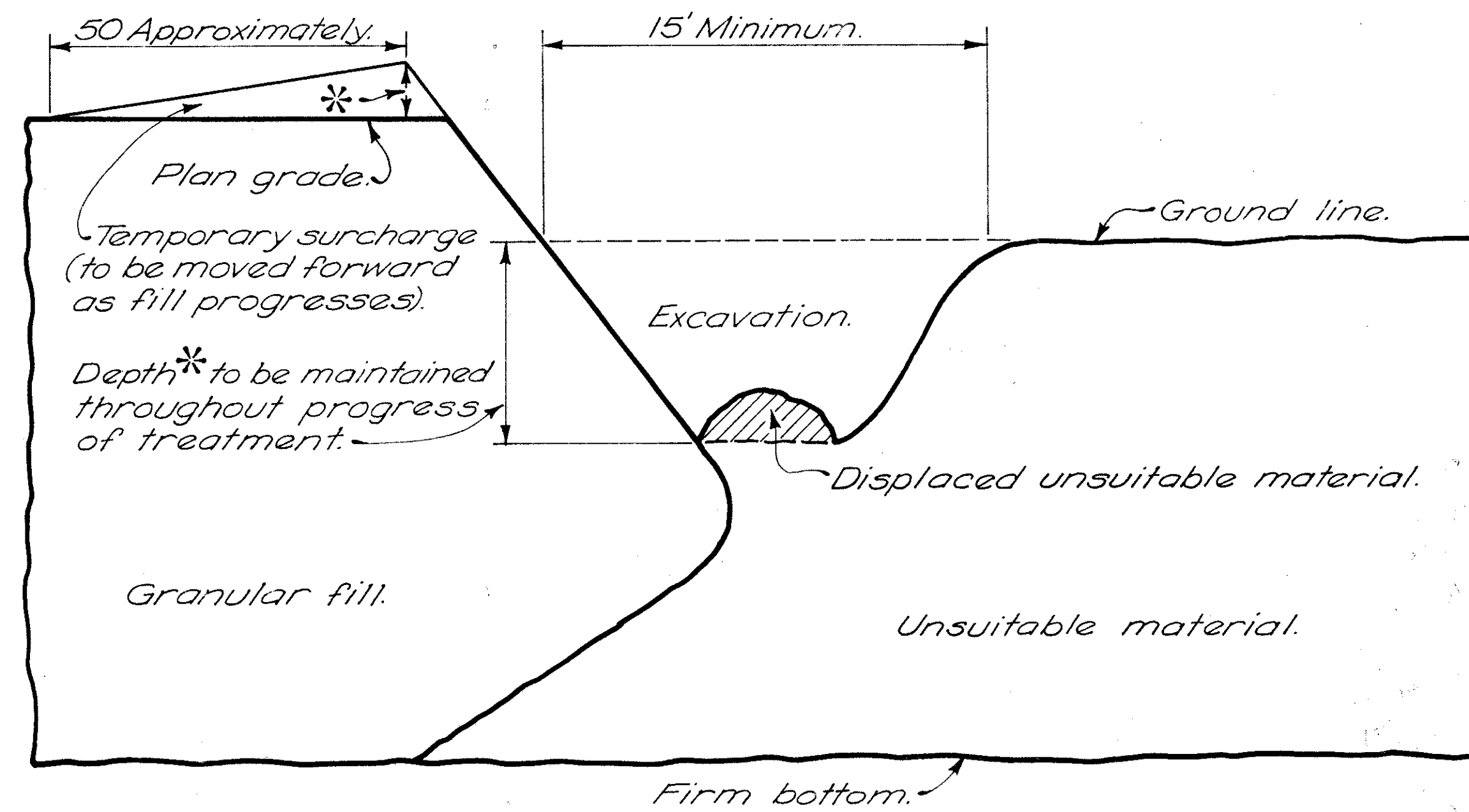
LONGITUDINAL SECTION

METHOD 1 TOTAL EXCAVATION

* Unless otherwise shown on plans.



CROSS SECTION



LONGITUDINAL SECTION

METHOD 2 PARTIAL EXCAVATION AND DISPLACEMENT