

# GRAVEL ROAD MAINTENANCE

## IMPACTS ON GRAVEL ROADS

- Moisture enters the road from potholes or because of shallow or nonexistent ditches
- Quantity, weight and speed of vehicles
- Strength of subgrade and thickness of base
- Construction quality including moisture content, proper compaction and material quality
- Regular and proper maintenance

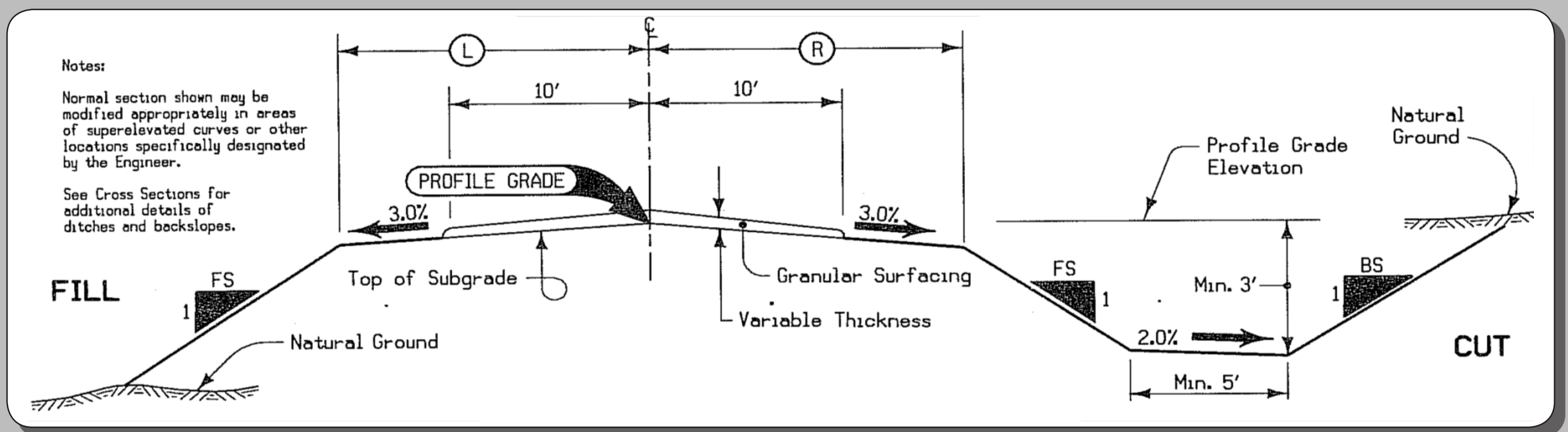
## ROUTINE MAINTENANCE OPERATIONS

- Reshaping of channels and side slopes
- Restoring erosion controls
- Cleaning and repairing culverts
- Removing slides
- Mowing and trimming trees
- Replacing topsoil, sod, shrubs, etc.



## ROAD ASPECTS & SHAPE

- Center should be higher than the outside edges (called crown) to provide the best drainage
- Subgrade can be fill material or existing natural soil
- Base adds strength to subgrade and provides support for the surface
- Surface material is driven on and must provide a good riding surface, wear resistance, skid resistance and waterproofing



For more information on the *Gravel Roads Maintenance* course or other MO-LTAP courses, please contact:



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## GRADER OPERATION

- Correct angle and pitch are important
- Improper angle can cause excessive aggregate loss
- Three operating modes: straight mode - for long pass blading, dry-ditch cleaning, blading shoulders or scarifying; articulated mode - for short turns, spreading material and cutting a high bank; crab mode - for heavy windrowing, wet ditch cleaning or cutting a bank on a gentle slope