Geo-Hazards In Transportation

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"Oh great! Things can't get any worse!"
K I S S

- Keep
- It
- Simple
- Stupid
Chained Rock, Pineville Ky.
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1933 Version of Rock Bolting
LIDAR

• Light
• Detection
• And
• Ranging
Triangular Irregular Network
• Keep

• It

• Simple

• Stupid
“Reflectorless”
Expansive Grouts

Non-Blasting Alternative to Trim Blasting
K I S S

• Keep

• It

• Simple

• Stupid
What We Really Want

• Limited excavation of material
• Limited construction duration
• Stable slope
What We Specified

• Defined a template slope and quantities of material to remove
• Defined a disposal area for the material
• Set up the overall completion time of the project and traffic control plan
• Specified no explosives
• Specified slope scaling after the excavation is completed
What We Didn’t Specify

• Means and Methods to be left up to contractor
Keep IT Simple

And Don’t Be Stupid