**BEFORE WINTER**

**BERMS**

**REMEMBER!**

- Compaction, Compaction, Compaction
- Berms must be AT LEAST mid-axle high to largest equipment on road
- Larger berms may be needed at steep steep grades and sharp turns

Berms **deteriorate over time** because of:

- rain
- wind
- sloughing
- settling
- impact from equipment
- undercutting (instability of outer bank)

**EARTHEN & BROKEN ROCK BERMS**

Deflect tires so vehicles can return to haul road

- Make inside slope steep
- Base width should be at least the width that an axle-height berm would have, if both the inside and outside slopes were at the material’s angle of repose.

**BOULDER BERMS**

Use friction forces between boulder and road to impede over travel.

- Additional road width is required to allow room for the equipment to push the boulders
- Do not place boulders right at the edge of the drop off.