Mud and Runoff Management for Horse Keepers

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Does this look familiar?

Or this?

Or maybe this?

Hoof Impact

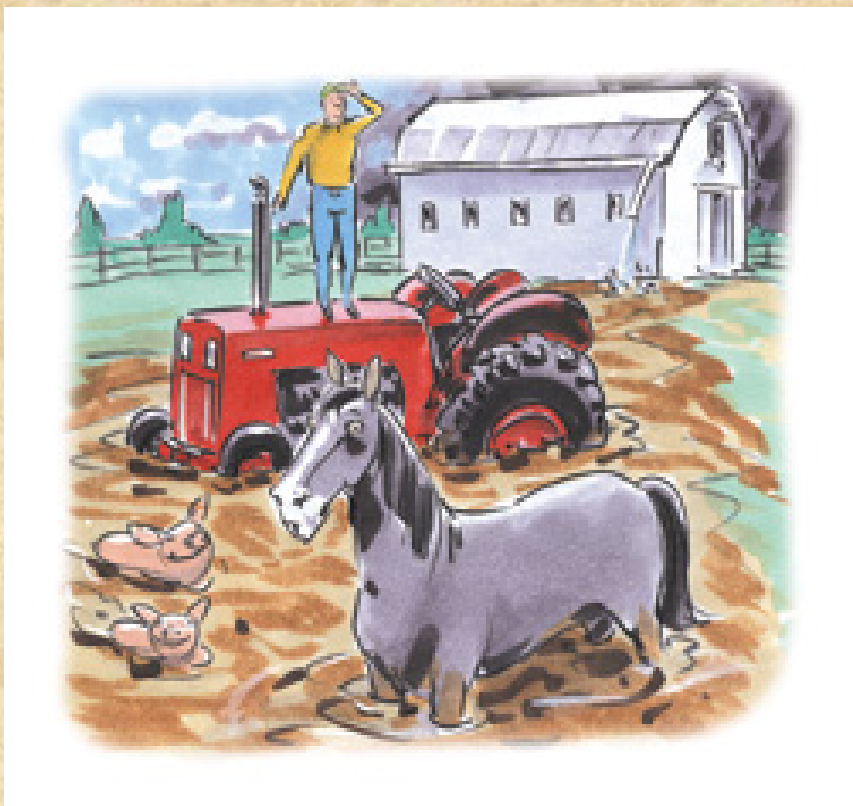
- On pastures
  - Compaction
  - Trailing
  - Reduced productivity
- On stream banks
  - Trampling
  - Erosion
  - Sediment

Impacts from manure

- Polluted Run-off
- Insects and parasites
- Odor

How do we avoid these impacts?

- Manage manure
- Control run-off
- Avoid over stocking
- Livestock exclusions
- Rotate pastures



Manure Storage

Potential Run-Off Barrier

Small Storage

Large Covered Storage

Roll Off Storage

Manure Storage Considerations

- Distance from streams, ponds, wells, and waterways.
- Prevailing wind direction
- Slope of ground
- Soil type
- Total annual rainfall

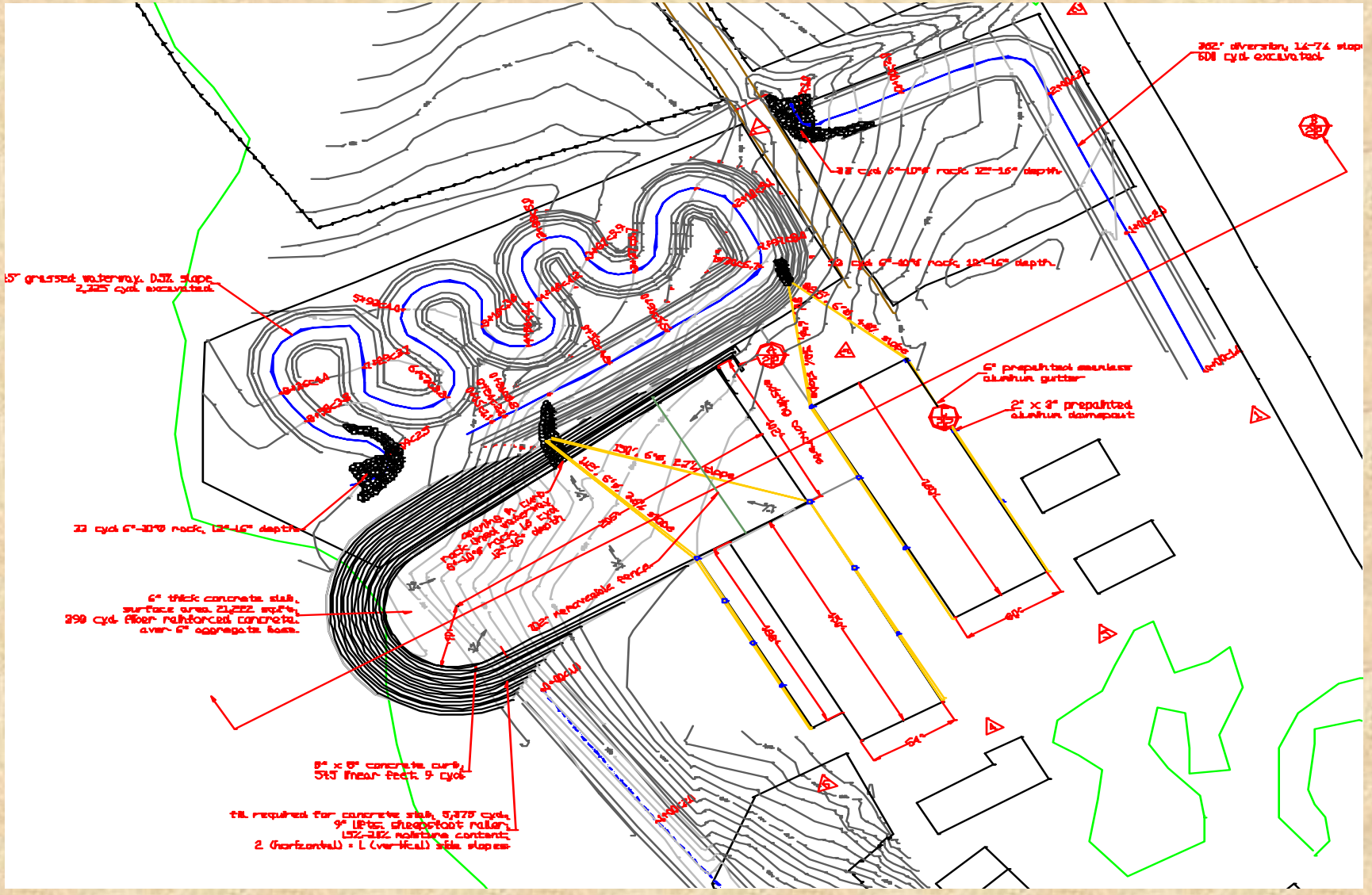
Management practices to avoid or mitigate negative impacts

- Roof Runoff Structures (gutters)
- Buffer/Filter strips
- Grassed Waterways
- Lined Waterways
- Sediment Basins
- Access Roads
- Animal Trails and Walkways
- Critical Area Planting
- Grade Stabilization Structures
- Water Development

Roof Runoff Management

- Gutters
- Diversions
- Buffers
- Filter Strips

Filter Strip



Grassed Waterway

Before

After

During (showing grade stabilization)

Lined Waterway

Lined Waterway

Sediment Basin

Before

Post Construction

After

Sediment Basin

Access Road

Before

After

Animal trails and walkways

Before

During

After

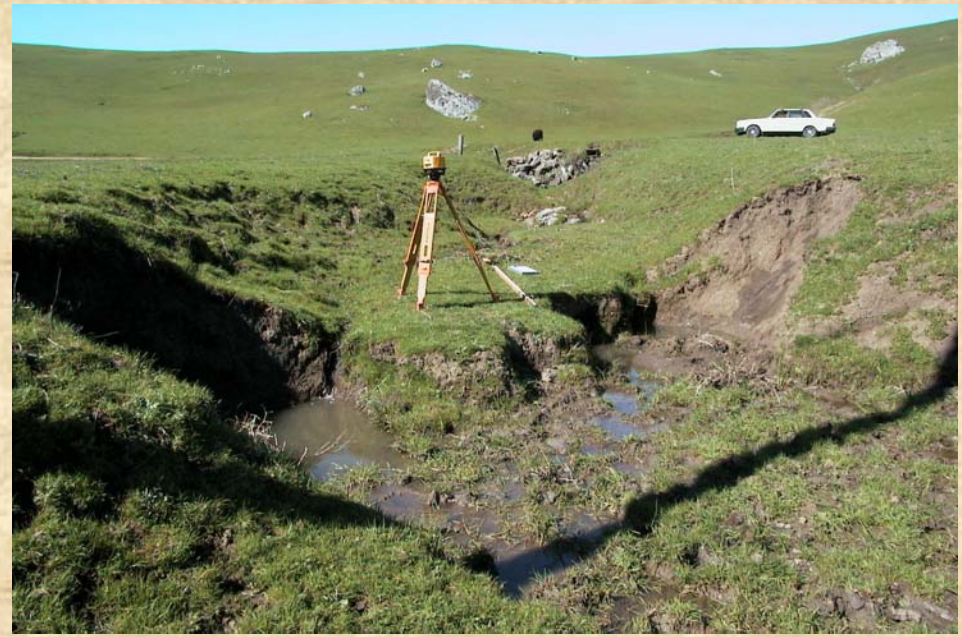
Critical Area Planting

Before

During

After

Grade Stabilization Structure



Before

After

Water Development