

Practice: 462 - Precision Land Forming

Scenario: #1 - Site Stabilization

Scenario Description:

The site contains site specific topographic problems. Site conditions require attention to elevation and grade. Resource concerns are EXCESS / INSUFFICIENT WATER -(Ponding, Flooding) and SOIL EROSION -(Sheet, Rill)

Before Situation:

The site, commonly a crop field or CAFO, has localized topographic issues causing drainage or erosion problems. Site conditions require attention to elevation and grade due to areas of excess / insufficient water and soil erosion.

After Situation:

The typical situation is a 5 acre crop field or CAFO requiring reshaping of the land surface to the required elevations and planned grades. An average 100 cy/ac or more of earthwork is needed to more effectively utilize precipitation. Resource concerns have been treated. Associated practices: 410-Grade Stabilization Structure, 342-Critical Area Planting, 362-Diversion.

Scenario Feature Measure: Cubic yards of earthwork

Scenario Unit: Cubic Yard

Scenario Typical Size: 500

Scenario Cost: \$1,291.51

Scenario Cost/Unit: \$2.58

Cost Details (by category):

Component Name	ID	Component Description	Unit	Price (\$/unit)	Quantity	Cost
Equipment/Installation						
Dozer, 140 HP	927	Track mounted Dozer with horsepower range of 125 to 160. Equipment and power unit costs. Labor not included.	Hour	\$105.78	8.3	\$877.97
Labor						
Equipment Operators, Heavy	233	Includes: Cranes, Hydraulic Excavators >=50 HP, Dozers, Paving Machines, Rock Trenchers, Trenchers >=12", Dump Trucks, Ag Equipment >=150 HP, Scrapers, Water Wagons.	Hour	\$23.61	8.3	\$195.96
Mobilization						
Mobilization, medium equipment	1139	Equipment with 70-150 HP or typical weights between 14,000 and 30,000 pounds.	Each	\$217.57	1	\$217.57