

**Practice:** 575 - Trails and Walkways

**Scenario:** #4 - Trail or Walkway, Rock/Gravel on Geotextile

**Scenario Description:** Layout and construct a trail or walkway with rock and or gravel on a geotextile fabric foundation to facilitate the movement of animals, people, or off-road vehicles to provide or improve access to forage, water, working/handling facilities, and/or shelter, improve grazing efficiency and distribution, and/or protect ecologically sensitive, erosive and/or potentially erosive sites, pedestrian or off-road vehicle access to agricultural, construction, or maintenance operations, provide trails for recreational activities or access to recreation sites and address the resource concerns of soil erosion and water quality degradation. Includes excavation, shaping, grading, rock and or gravel, geotextile, vegetation of disturbed areas, and all equipment, labor and incidental materials necessary to install the practice.

**Before Situation:** This practice applies on all lands where management of animal or human movement is needed to address soil erosion, water quality, and livestock production limitation resource concerns. This practice also applies to trails or walkways constructed for use by off-road vehicles, such as All-Terrain Vehicles or snowmobiles, which are designed for off-road use.

**After Situation:** The typical trail or walkway is an 8 foot wide by 600 foot long lane with a surface treatment of rock and or gravel on a geotextile fabric foundation. The trail or walkway is constructed of approved materials, with a life expectancy that meets or exceeds the planned useful life of the installation. All materials, equipment, and labor to install the trail or walkway and surfacing is included. Vegetation of adjacent disturbed areas is also included. The resource concerns of soil erosion, water quality, and livestock production limitations have been addressed. Other associated practices include Stream Crossing (578), Diversion (362), and Fence (382). Use Access Road (560) if the movement of vehicles or equipment is needed for purposes other than management and maintenance of the trail or walkway.

**Scenario Feature Measure:** Length of trail or walkway

**Scenario Unit:** Foot

**Scenario Typical Size:** 600

**Total Scenario Cost:** \$4,542.28

**Scenario Cost/Unit:** \$7.57

**Cost Details**

| Component Name | Id | Description | Unit | Cost | Qty | Total |
|----------------|----|-------------|------|------|-----|-------|
|----------------|----|-------------|------|------|-----|-------|

**Equipment Installation**

|  |     |   |             |         |     |            |
|--|-----|---|-------------|---------|-----|------------|
| Dozer, 80 HP   | 929 | Track mounted Dozer with horsepower range of 60 to 90. Equipment and power unit costs. Labor not included.                            | Hour        | \$65.04 | 4   | \$260.18   |
| Excavation, Common Earth, side cast, small equipment | 48  | Bulk excavation and side casting of common earth with hydraulic excavator with less than 1 CY capacity. Includes equipment and labor. | Cubic Yard  | \$2.16  | 30  | \$64.70    |
| Geotextile, woven                                    | 42  | Woven Geotextile Fabric. Includes materials, equipment and labor  | Square Yard | \$2.33  | 534 | \$1,246.62 |
| Truck, Pickup  | 939 | Equipment and power unit costs. Labor not included.   | Hour        | \$21.43 | 2   | \$42.86    |

**Materials**

|  |      |  |            |         |      |            |
|--|------|--|------------|---------|------|------------|
| Aggregate, Gravel, Graded                                  | 46   | Gravel, includes materials, equipment and labor to transport and place. Includes washed and unwashed gravel. | Cubic Yard | \$25.57 | 90   | \$2,301.40 |
| Three Species Mix, Cool Season, Introduced Perennial Grass | 2315 | Cool season, introduced grass mix. Includes material and shipping only.                                      | Acre       | \$46.58 | 0.04 | \$1.86     |

**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 | \$28.82 | 4 | \$115.26 |
| General Labor              | 231 | Labor performed using basic tools such as power tool, shovels, and other tools that do not require extensive training. Ex. pipe layer, herder, concrete placement, materials spreader, flagger, etc. | Hour | \$21.71 | 6 | \$130.25 |
| Skilled Labor              | 230 | Labor requiring a high level skill set: Includes carpenters, welders, electricians, conservation professionals involved with data collection, monitoring, and or record keeping, etc.                | Hour | \$31.88 | 4 | \$127.51 |

**Mobilization**

|                      |      |  |      |          |   |          |
|----------------------|------|--|------|----------|---|----------|
| Mobilization, medium | 1139 | Equipment with 70-150 HP or typical weights between 14,000 and | Each | \$251.62 | 1 | \$251.62 |
|----------------------|------|--|------|----------|---|----------|

|           |  |                |  |  |  |  |
|-----------|--|----------------|--|--|--|--|
| equipment |  | 30,000 pounds. |  |  |  |  |
|-----------|--|----------------|--|--|--|--|