

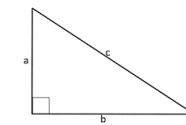
| Assumptions: | Parameters |
|--|------------|
| Total Disturbance (acres) | 1.03 |
| Pit (acres) | 1.03 |
| Import Topsoil 6 inches (yd³) | 376 |
| Topsoil Cost (per/yd ³) | \$23 |
| Backfill Cost (per/yd ³) | \$9.00 |
| Road Base Cost (per/yd ³) | \$21.75 |
| Transport Cost (per/36 yd ³) Pit to Saratoga | \$180 |
| Guardrail (per/L.F.) | \$15.18 |
| 1 yd ³ = 1.5 tons | |
| Belly Dump Capacity 24 tons or 36 yd ³ per load | |
| North Highwall Length (ft) | 308 |
| North Highwall Height (ft) | 6.0 |
| North Highwall Volume of Backfill (lcy) | 616 |
| South Highwall Length (ft) | 308 |
| South Highwall Approximate Height (ft) | 15 |
| South Highwall Volume of Backfill (lcy) | 868 |
| South Highwall Volume of Road Base (lcy) | 2605 |

\$6.00/ton
\$14.50/ton

3,473

North Highwall

308ft. Length



c = 19ft.

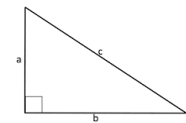
18 Degrees = 3:1 slope

b = 18ft. Width

Highwall layback to calculate volume

South Highwall

308ft. Length



c = 47ft.

18 Degrees = 3:1 slope

b = 45ft. Width

are y

Highwall layback to calculate volume

Plain View



North Highwall
6ft. Height
308 ft. Length

Estimated Cost:

| North and South Highwall Backfill Cost Estimate - G12A | Cost |
|---|-----------------|
| North Highwall Backfill DB Dozer @ 0% Grade and 100 ft push distance (lcy) | \$0.288 |
| North Highwall Material Movement Cost | \$177 |
| North Highwall Backfill Material Cost | \$5,544 |
| North Highwall Transport Cost | \$3,080 |
| South Highwall Reduction DB Dozer @ 0% Grade and 100 ft push distance (lcy) | \$0.288 |
| South Highwall Material Movement Cost | \$1,000 |
| South Highwall Import Backfill Material Cost | \$7,812 |
| South Highwall Import Road Base Cost | \$56,659 |
| South Highwall Transport Cost | \$17,365 |
| Guardrail Cost | \$4,675 |
| Highwall Backfill Total Cost | \$96,313 |

| Final Grade Cost Estimate - G12A | Cost |
|----------------------------------|----------------|
| Final Grade Cat 140 Grader | \$40.43 |
| Total Disturbance (acres) | 1.03 |
| Final Grade Total Cost | \$41.64 |

| Scarify Cost Estimate - G12A | Cost |
|--|----------------|
| Scarification of Compacted Surface Cat 140 Motor Grader (per/acre) | \$43.57 |
| Total Disturbance (acres) | 1.03 |
| Scarify Total Cost | \$44.88 |

| Topsoil Redistribution - G12A | Cost |
|---|--------------------|
| Topsoil/ Push/Pull Scraper 627 500 ft Haul Distance (per/bcy) | \$0.608 |
| Topsoil Movement Cost | \$229 |
| Import Topsoil Material Cost | \$8,658 |
| Import Topsoil Material Transport Cost | \$1,882.22 |
| Topsoil/Overburden Redistribution Total Cost | \$10,769.32 |

| Revegetation | Cost |
|---------------------------------|-------------------|
| Tractor w/seed drill (per/acre) | \$600.00 |
| Total Disturbance (acres) | 1.03 |
| Seed Mix | \$800.00 |
| Revegetation Cost | \$1,418.00 |

| ASCM Installation/Maintenance | Cost |
|-------------------------------|--------|
| ASCM Installation/Maintenance | \$0.00 |

| | |
|---------------------------------|------------------|
| Scope of Work Subtotal | \$108,587 |
| Contingency Fee (40%) | \$43,435 |
| Scope of Work Total Cost | \$152,021 |

Notes:

1 - LQD included a guardrail and construction costs to the bond estimate for public safety. The guardrail installed above the highwall will protect the public from accidental entry and will increase the safety of motor vehicles.

Link to Site Photographs:

\\efs.wyo.gov\020_deq_data\Division\LQD\PERMITS\1496ET Quality Landscape (Randy Stevens)\2020\Photos

DEQ Exhibit 1

| Assumptions: | Parameters |
|--|-----------------|
| Total Disturbance (acres) | 1.03 |
| Pit (acres) | 1.03 |
| Import Topsoil 6 inches (yd³) | 376 |
| Topsoil Cost (per/yd ³) | \$23 |
| Backfill Cost (per/yd ³) | \$8.48 |
| Road base Cost (per/yd ³) | \$20.03 |
| Transport Cost (per/36 yd ³) Pit to Saratoga | \$180 |
| Retaining Wall Cost (per/L.F.)¹ | \$487.53 |
| Guardrail Cost (per/L.F.)² | \$15.11 |
| 1 yd ³ = 1.5 tons | |
| Belly Dump Capacity 24 tons or 36 yd ³ per load | |
| North Highwall Length (ft) | 308 |
| North Highwall Height (ft) | 6.0 |
| North Highwall Volume of Backfill (lcy) | 240 |
| South Highwall Length (ft) | 308 |
| South Highwall Approximate Height (ft) | 15 |

Estimated Cost:

| North and South Highwall Backfill Cost Estimate - G12A | Cost |
|--|------------------|
| North Highwall Backfill D8 Dozer @ 0% Grade and 100 ft push distance (lcy) | \$0.288 |
| North Highwall Material Movement Cost | \$69 |
| North Highwall Backfill Material Cost | \$2,034 |
| North Highwall Transport Cost | \$1,200 |
| Retaining Wall 10 ft (per/L.F.) | \$150,159 |
| Guardrail Cost | \$4,654 |
| Highwall Backfill Total Cost | \$153,462 |

| Final Grade Cost Estimate - G12A | Cost |
|----------------------------------|----------------|
| Final Grade Cat 140 Grader | \$40.43 |
| Total Disturbance (acres) | 1.03 |
| Final Grade Total Cost | \$41.64 |

| Scarify Cost Estimate - G12A | Cost |
|--|----------------|
| Scarification of Compacted Surface Motor Grader 16M (per/acre) | \$43.57 |
| Total Disturbance (acres) | 1.03 |
| Scarify Total Cost | \$44.88 |

| Topsoil Redistribution - G12A | Cost |
|--|--------------------|
| Topsoil/Push/Pull Scraper 627 500 ft Haul Distance (per/bcy) | \$0.608 |
| Topsoil Movement Cost | \$229 |
| Import Topsoil Material Cost | \$8,658 |
| Import Topsoil Material Transport Cost | \$1,882.22 |
| Topsoil/Overburden Redistribution Total Cost | \$10,769.32 |

| Revegetation | Cost |
|---------------------------------|-------------------|
| Tractor w/seed drill (per/acre) | \$600.00 |
| Total Disturbance (acres) | 1.03 |
| Seed Mix | \$800.00 |
| Revegetation Cost | \$1,418.00 |

| ASCM Installation/Maintenance | Cost |
|-------------------------------|--------|
| ASCM Installation/Maintenance | \$0.00 |

| | |
|---------------------------------|------------------|
| Scope of Work Subtotal | \$165,736 |
| Contingency Fee (40%) | \$66,294 |
| Scope of Work Total Cost | \$232,031 |

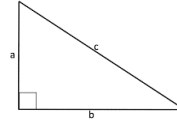
Notes:

- 1 - LQD included a retaining wall and construction costs to the bond estimate for public safety. The retaining wall construction will stabilize the 15 ft. highwall and the adjacent property.
- 2 - LQD included a guardrail and construction costs to the bond estimate for public safety. The guardrail installed above the highwall will protect the public from accidental entry and will increase the safety of motor vehicles.

\$4.25/ton
\$10.35/ton

240

North Highwall
308ft. Length



c = 19ft.

18 Degrees = 3:1 slope

b = 18ft. Width

Highwall layback to calculate volume

Plain View

