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Date: 3/27/03 3:35PM
Subject: Des-Bee-Dove Phase 2 Change Order #2

Pete, Jim and Priscilla,

Please review the following attachments:

<<Phase2ChangeOrder2.ppt>>
<<Phase2ChangeOrders.wpd>>

As we discussed on our site visit (3/17/03), we need this issue resolved by early next week.

Thanks for your help.

Chuck

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**DES-BEE-DOVE MINE
PHASE 2 RECLAMATION
Change Order Chronology**

Change Order #	Date	Area	Description of Change
1.	2/04/03	Small slope above Hiawatha Seam/ cattle trail	<p>In an effort to obtain additional substitute topsoil, the slope above the Hiawatha Coal Seam outcrop/cattle trail was cut back to two small slopes and one terrace. Slopes were excavated to expose bedrock to blend in with the existing topography. The area was seeded as specified in the Biology Section. Additional area for hydroseed application is approximately 0.08 acres. Soil obtained from the cut was distributed along the Hiawatha Coal Seam outcrop and used to reconfigure the cattle trail intersection with the Phase 1 reclamation area. Slope material consisted of colluvial material ranging from silt/sand to large boulders. Large boulders were segregated for use as riprap. Excess soil (approximately 50 yards³) from this area was transferred to cover the Hiawatha Coal Seam outcrop west of the rockfall area. Total soil salvaged from this area was approximately 750 yards³ (excluding riprap). Review photo #1.</p>
2.	3/27/03	Main bathhouse pad outslope from approximately 3+00 through 7+00	<p>In an effort to improve reclamation final slope configuration the contractor requested permission to re-work the bathhouse pad outslope to the main channel from cross section 3+00 through 7+00. The advantages/disadvantages to this requested change order will be:</p> <p><u>Advantages:</u></p> <ul style="list-style-type: none"> * Reduced final slope configuration from 1.3H:1V to 1.9H:1V * Increase slope stability * Increase in substitute topsoil quantities * Improved reclamation safety * Improved overall reclamation efficiency * Improved reclamation techniques <p><u>Disadvantages:</u></p> <p>Disturbance of approximately 0.6 acres</p> <p>The additional disturbed area will be approximately 0.6 acres. Additional soil material excavated will be utilized along the main drainage side slopes. Overall the slope will be graded/re-worked from existing slope of 1.3H:1V to a slope of approximately 1.9H:1V. The area will be seeded as specified in the Biology Section. Additional area for hydroseed application is approximately 0.6 acres. Slope material consist of overcast material from the original bathhouse pad construction and the original slope. Overcast and native material</p>

DES-BEE-DOVE MINE
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			<p>ranges from silt/sand to large boulders (sampled in soil trenches T7 and T8, refer to Phase 1 soil analysis). Large boulders will be segregated for use as riprap. Excess soil, approximately 10,000 yards³ (this figure excludes the soil necessary to cover the bathhouse spoil material to a depth of approximately 2.5'), from this area will be transferred to cover the main drainage side slopes. Review Change Order #2 Photos.</p>
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Change Order #2

Red lines and shaded areas within the approved plan

Area of Change

Approximate Length: 400'

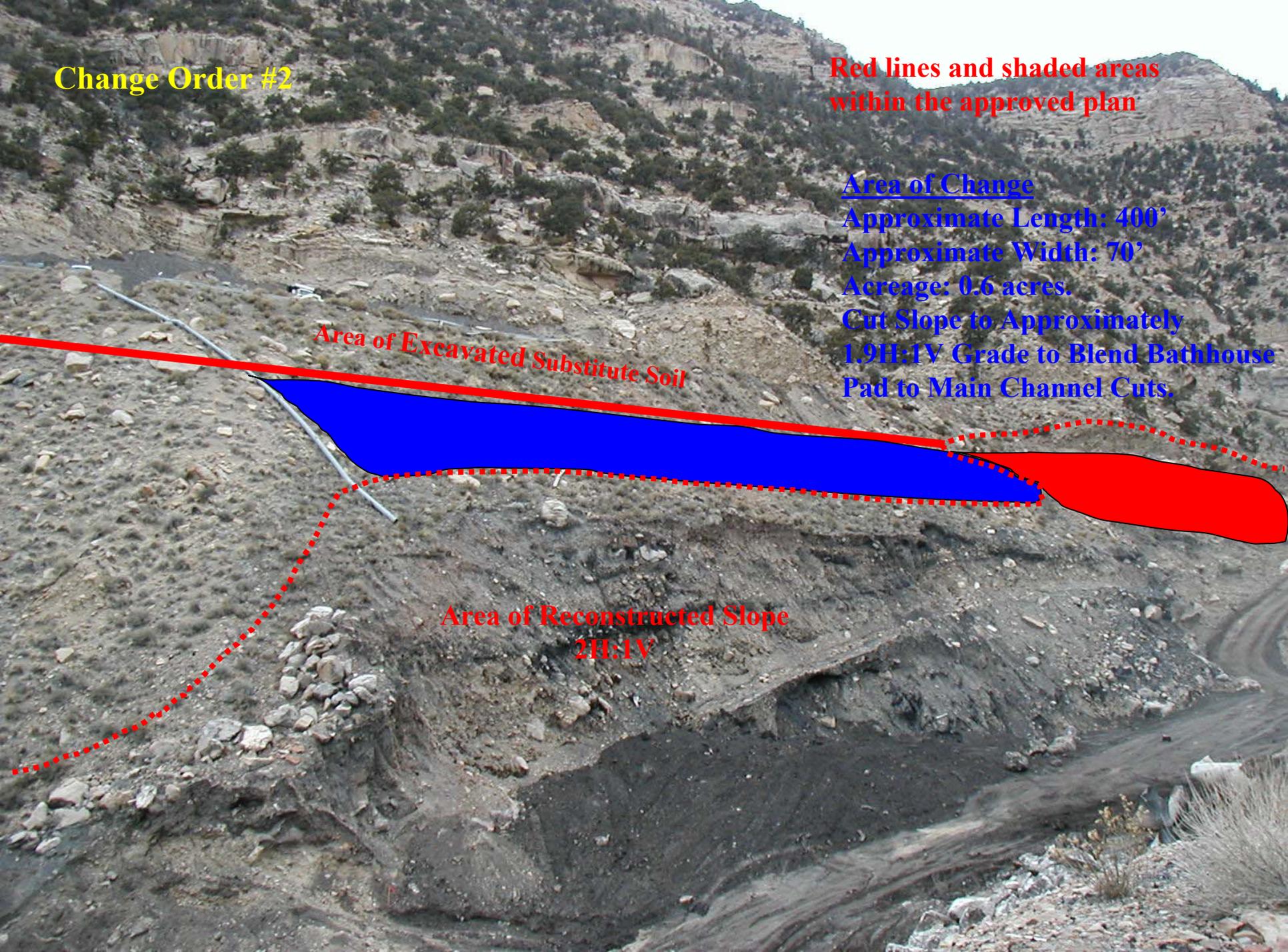
Approximate Width: 70'

Acreage: 0.6 acres.

Cut Slope to Approximately 1.9H:1V Grade to Blend Bathhouse Pad to Main Channel Cuts.

Area of Excavated Substitute Soil

**Area of Reconstructed Slope
2H:1V**



Change Order #2

Area of Change

Cut Slope to Approximately
1.9H:1V Grade to Blend Bathhouse
Pad to Main Channel Cuts, and
Reduce Overall Grade.

Cut Slope
1.9H:1V

Red lines and shaded areas
within the approved plan

Area of Reconstructed Slope
2H:1V



Change Order #2

Map 500-4: Reclamation Sections

Red line = Originally Projected Slope
Blue line = Proposed Slope Alterations

- * All reconstructed slopes will be developed to 2H:1V or less
- * Bathhouse Pad outslope will a cut slope as shown on sections 4+00 through 6+00 which will reduce the slope from 1.3H:1V to 1.9H:1V

Section 6+00
Average Depth of Cut = 11'
Existing Slope: 1.3H:1V
Projected Cut Slope: 1.9H:1V

Section 5+00
Average Depth of Cut = 14'
Existing Slope: 1.4H:1V
Projected Cut Slope: 1.9H:1V

Section 4+00
Average Depth of Cut = 15'
Existing Slope: 1.3H:1V
Projected Cut Slope: 1.9H:1V

