

**Los Alamos**  
NATIONAL LABORATORY  
**memorandum**

Engineering Sciences and Applications  
ESA-EPE Energy and Process Engineering

To/MS: Pat Osterberg, BUS-3, MS P274  
Thru: Cheryl Rofer, EES-1, MS D462 CR  
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Phone/FAX: 7-7590/7-0600  
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Date: April 29, 1996

**SUBJECT: REQUEST FOR GRADING, MULCHING, SEEDING MDA-M**

The original RFP and contract with NES did not cover the removal of the road and revegetation of the exposed area at MDA-M, about 3.5 acres. The MDA-M cleanup was originally thought to be a two phase cleanup with the road removal, grading, mulching and seeding being part of the second phase. We now believe that the first phase is the final remedy and will require road removal, grading, mulching and seeding as part of this phase.

Work will include the following:

- Removing all concrete chunks and debris, within 100 feet, along each side of the road from MDA-M to the blacktop intersection.
  - This material will be screened for High Explosives, Radiation contamination and other contaminants as outlined in the attachment. Then broken into less than 2' on a side for transfer to a rock crusher (at present time the crusher is located at TA-16)
  - The debris is expected to be industrial and disposed of at the city land fill. If not, then proper disposal will be expected, as done in the major MDA-M cleanup.
- Removing the existing road from the, east end turn around area of MDA-M to the power corridor east side.
  - In general this work will be to scarf up and remove the large rock bedding leaving the crusher falls to fill in low spots. The large rock will be hauled to the rock crusher for gravel.
- Grade and till the road way, MDA-M area, and satellite area, to prevent undue erosion and to conform to the surrounding area. The primary purpose of grading and tilling the site is to provide (1) erosion control, (2) moisture conservation, and (3) a good seed bed.
  - Furrows and ridges should be contoured perpendicular to the slope to prevent pathways for erosion.
  - Till the site to ensure adequate seed bed preparation. A first step would be ripping the site to decompact the soil. Disc the top 3" to 5"

Mulching (Pea gravel, one layer thick with at least 50 to 75% ground cover.) is essential for seedling survival. Gravel mulch provides protection from erosion due to raindrop splash and overland flow and perhaps more importantly helps conserve soil moisture. This could be done using a sand truck to spread the pea gravel.



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TA-9 (MDA-M, 9-013)

- **Revegetate all areas with grass to encourage tree growth.**
  - **The type of grass is commonly known as dryland mix, which consists of several ( 5 to 7 native grasses) types of grass that will grow during warmer weather. Grass will be planted to the order of 40 pounds per acre. Broadcasting or hydroseeding are acceptable methods.**

I request that this work be done and charged to the Task Order Number B40660015-CL. This account has funding for this work.

Cy: ESA-EPE Serial File