

AMENDMENT 1

Amended Scope of Work

3 May 2003

Land Restoration Plan
Stone's Ranch Military Reservation

Introduction:

This Scope has been amended from the original. Scope now includes only "site A" from Stones Ranch Military Reservation Land Rehabilitation Map. Sites "B" and "C" are no longer included in this project. Compost is no longer required. Topsoil will be used.

The purpose of the Land Restoration Plan is to restore a 1.2 acre site of exposed soil at Stone's Ranch Military Reservation (SRMR) to reduce erosion, enhance biodiversity, and increase usable training area lands. Most of the site is currently unvegetated and exposed well-drained soil is washed into adjacent wetland areas during storm events. Project site is the defunct 1.2 acre Medium Girder Bridge (MGB) Site at SRMR. The proposal for the restoration of the MGB Site includes regrading existing dirt bridge abutments, spreading 4 inches of topsoil, blending topsoil and existing substrate, and revegetating exposed soil. This site also includes two road sections running west from the Range Control building. Each road will be filled to match existing adjacent grades, topsoiled, and hydroseeded. All existing trees and shrub areas will remain untouched, and are not included in this project. The natural resources management goal is to increase and enhance upland grassland habitat.

This restoration plan has been written under the provisions of the Sikes Act (16 USC 670a-670f, as amended), the Connecticut Army National Guard's Integrated Natural Resources Management Plan (INRMP), and Executive Order 13112: Invasive Species.

The completion of this project would satisfy requirements of two Connecticut Army National Guard programs. The Fish and Wildlife Program component of the Integrated Natural Resources Management Plan recommends the creation of grassland areas as necessary to support training as well as providing numerous ecosystem benefits including increased grassland bird habitat. Warm-season grasses produce most growth during the summer months and are well adapted to low moisture and higher temperatures.

Site Location:

The Medium Girder Bridge (MGB) Site is located in the southern part of the installation, east of the lower garage and immediately southwest of the magazine storage area. Unvegetated portion of this site needing rehabilitation is approximately 1.2 acres in size.

Materials Required:

A. Seed: 50 pounds of Northeast Upland Wildlife Seed Mix or equal including the following species: *Phleum pratense*, *Trifolium hybridum*, *Dactylis glomerata*, *Lespedeza bicolor*, *Panicum vigatum*, *Andropogon virginicus*, *Setaria italica*, *Helianthus annuus*, *Polygonum pennsylvanicum*, *Panicum clandestinum*, and *Avena sativa*. Purchased seed mix shall not include any non-native invasive species as listed by the Department of Environmental Protection's Natural Heritage Program.

B. Topsoil: 800 cubic yards of topsoil will be purchased. Topsoil to be procured will be well drained, loamy soil with no larger than ¾ inch stone content. Soil will have a neutral pH.

C. Silt Fencing and Haybales: Need for erosion control material is estimated at 300 linear feet of silt fence and haybales. Appropriate stakes for fencing and bale installment are also required.

D. Water: Water filling station will be not available on site. Site will need to be watered 6 times, once per week for 6 consecutive weeks.

E. Roadway Fill Material: Fill requirement for two eroded roadways is estimated at 120 cubic yards. This material will be provided by the CTARNG, but will need to be moved from a site 0.5 miles from the destination eroded-road site.

Major Requirements:

Task 1. Pre-Construction Meeting. The Contractor shall meet with Environmental Division Staff regarding design plans and exact specifications.

Task 2. MGB Site Preparation. All proper erosion controls shall be in place before excavation commences in accordance with the 2002 Connecticut Guidelines for Soil Erosion and Control, DEP Bulletin 34.

Task 3. Grading. Existing bridge abutments are to be regraded to rough topography, matching existing surrounding grades. The existing soils on this site are very sandy and stony. Topsoil shall be spread in (2) equal lifts. Bottom lift should be thoroughly mixed with the loosened subgrade by disking or harrowing to create a transition layer. Following creation of transition layer, topdress with remaining 2" lift of topsoil. Final average depths of soil shall be 4" of topsoil/existing soil mix with 2" pure topsoil spread on top. Entire surface shall then be rolled with a ballasted roller weighing no more than 60 pounds per square foot.

Boulders unearthed during construction will be moved to northern end of "area b" denoted on Land Restoration Map.

Grade all areas to a smooth, even surface with loose, uniformly fine texture. Smoothly blend to meet existing conditions. Roll and rake, remove ridges, and fill depressions to meet finished grades.

Task 4. Eroded Roadway Sections Filling. The two sections of roadway are highly eroded and have been closed. Both sections are to be filled to existing grade using excess fill from materials holding area (airstrip) on Stones Ranch. Contractor is responsible to load and transport fill material to job site. Transport distance is estimated at 0.5 miles. Topsoil shall be spread in (2) equal lifts. Bottom lift should be thoroughly mixed with the loosened subgrade by disking or harrowing to create a transition layer. Following creation of transition layer, topdress with remaining lift of topsoil.

Task 5. Seeding. Approval of Environmental Project Manager (524-4945) of final grade and topsoil depths will be obtained prior to seeding.

The site will be seeded immediately following final earthwork using hydroseeding and the above listed seed mix.

Task 6. Watering. Seeded areas should be watered once per week for the first six weeks following hydroseeding.

Task 7. Removal of Erosion Controls. All placed erosion controls including silt fence and haybales shall be removed immediately following 6th week of watering.

Period of Service:

Work under this Scope will be initiated on or about 16 June 2003 and be completed by 1 September 2003.

Personnel Requirements:

Installer Qualifications: Engage an experienced Installer who has completed land restoration work similar in material, design, and extent to that indicated for this project and with a record of successful grass establishment.