§22.44.1920.L.1. Detailed restoration or enhancement plan (minimum requirements)

I. SUMMARY OF PROJECT

A. Map of project location with respect to known geographic markers such as principal roads and communities

B. Detailed local map of project location showing topography, drainage system, watershed, Impact area; USGS 7.5-minute topographic map excerpts are good for showing this information

C. Narrative describing nature of impact or degradation of natural habitat, area of impact

D. Restoration proposal goals, giving basic figures on area of impact/degradation, plant alliances of restoration, acreage to be restored, outline of proposed schedule

II. DETAILED SITE PLANS

A. MAPS FOR RESTORATION

1. Map of Impacted areas, area to be enhanced

- **Scale**
- **North arrow**
- **Legend**
- **Parcel boundaries**
- **Topographic lines**
- **Areas of Impact**
- **Pre-existing habitat types (Plant alliances) or Hypothesized habitat type**
- **Species of concern for SMM (any species in the 9-quad lists of CNDDB and CNPS)**
- **Statement of total area impacted**
- **If impacts include native (to SMM) plants of 6-in. or larger DBH or two trunks summing to 8-in. or larger DBH, then mitigation schedules for impacts should be tabulated. The schedule is in County Code §22.44.1920.K.**

b. Map of restoration area/area to be enhanced (also showing impacted area)

- **Scale**
- **North arrow**
- **Legend**
- **Parcel boundaries**
- **Topographic lines**
- **Areas of Impact**
- **Pre-existing habitat types (Plant alliances) or Hypothesized habitat type**
- **Species of special concern**
- **Statement of total area to be restored**
- **Plant alliances to be restored: location and outlined area on map**
- **Summary table of plant alliances to be restored, total area for each plant alliance, and total area of restoration**

c. Map of reference transects (should be good quality habitat, distant from edge effects if possible; also show impact area, area to be restored)

- **Scale**
- **North arrow**
- **Legend**
- **Parcel boundaries**
- **Topographic lines**
- **Habitat types (Plant alliances) outline and location of native reference habitats. Reference areas should be as near to restoration area as possible, but away from edge affects that would**

influence the composition. For each alliance to be restored in the areas of impact, there needs to be

- **3 transects in the reference area of that habitat type**
  Transects should be randomly placed (all parts of the reference habitat have an equal chance of being in a transect)
- **Transects should be 50m long, or other appropriate length, sampled continuously for plant species and coverage.**
- **Plant alliance transects shall include coverage for the following:**

Dirt, grass, grass and forbs, forbs, rock without lichens and/or bryophytes, rock w/ lichens and/or bryophytes, plant shrub and tree species (For grasslands, herbaceous species id is also needed.) The herb constituents and rocks are an important and basic part of the community, and efforts should be made to include these non-traditional parts in restoration. A local native constituent will be substituted for non-native elements in the restoration plan for the alliance.

III. DATA FOR RESTORATION

For each reference plant alliance show species list and coverage from each of three transects as:

- **Median coverage value (low coverage value, high coverage value)**
- **Performance should be all species and substrates of over 1% coverage in reference transects, and coverage for each species and substrate of its median value.**
- **Performance should include lack of invasive plants and lack of non-native plants (minimal exotics)**
- **(Probably initial planting should be for high coverage value in order to finally achieve the median coverage values.)**
- **Measurement methods to judge progress for annual reports on performance**
- **Schedule for achievement of performance goal. A minimum 5-year monitoring program is required after completion of revegetation, and achievement of performance standards**
- **Achievement of performance standards not met in first 5 years' monitoring can be met through extension of monitoring for a total of 10 years.**
  - **Performance must be achieved in a period of at least two years without any maintenance or remedial activities other than exotic species control.**
  - **For the second 5-year period there can be a proposal of remediation methods or alternative restoration.**

IV. METHODS

Describe for each plant alliance the planting methods and schedule for planting.

- **Include cleaning of equipment before bringing it to site (avoid introduction of non-native and invasive plant propagules)**
- **Include earth movement, runoff control, schedule. The prescription in the LCP is to meet the performance standards in 10-years' time, with a plan that attempts to achieve them in 5 years' time**
- **Performance must be achieved in a period of at least two years without any maintenance or remedial activities other than exotic species control.**
- **Quality controls on plant material, particular attention to appropriate genetic stock and origin**
- **Include methods and schedule for removal of non-native exotic plants. These removal methods should be chemical-free and fertilizer-free methods**
- **Describe pest and herbivore control. Strictly forbid use of rodenticides and other poisons.**
- **Include native plant mulch and prescriptions for weed-free materials.**
- **Include irrigation plans and schedules, removal of irrigation if not needed for fire safety.**

- **Describe weeding execution methods (could involve solarization, should involve hand tools, removal of roots, invasive transport in closed containers to a landfill) and schedule.**
- **Adaptive management implementation**