

**Veteran's Park Improvements
Campground Grading and Drainage
5-14-2021**

Project Name: Veteran's Park
Project Location: Township of Lincoln, Forest County, Wisconsin
NW1/4 NE1/4 Sec. 17 Twp. 37N Range 13E

The project is to reconstruct the existing campsites. The existing site is mainly grass with areas of trees and many scattered trees throughout. There is an asphalt parking lot and main circle drive and a secondary gravel drive for tent campsite access. The existing campground is very flat with many low spots that cause the campsites to be saturated and soft during and after rainfall events. This limits the usability of the sites and increases the likelihood of rutting and erosion due to vehicular traffic. The County is proposing to raise the existing grade of the park to allow for sufficient positive drainage throughout the site to reduce and eliminate, as much as possible, the areas of standing water after rainfall events. The proposed work includes re-grading the parking lot, campsites and roadway, and installing campsite water service connections. The reconstructed parking lot and roadways are to be paved with asphalt. The existing tent campsites along the north edge, near the lake, are to remain with no proposed grading changes.

Based on the Surface Water Data Viewer, there are wetland indicator soils within the project area, possible small pockets of wetlands located within the project area, and a wetland along the south side of the site. A wetland delineation was performed on the site and a copy of the report is included. Based on the delineation there is no proposed work within wetland areas.

Soils

According to the data available from the USDA-NCSS obtained from Web Soil Survey, the project area has sandy loam and silt loam soils.

Temporary Erosion Control Measures

The Owner will be responsible for the installation of erosion control measures and maintenance of those measures, as needed, until the site is stabilized. Erosion control measures include straw wattles, silt fence, straw bales and temporary seeding of stockpiles. Erosion control will be placed along fill slopes, at low areas and prior to surface water to protect adjacent areas from potential sedimentation.

Permanent Erosion Control Measures

During construction, the disturbed areas of the proposed work will be stabilized with topsoil, seed and mulch.

Long-Term Maintenance

The landowner, Forest County, will be responsible for the maintenance of all storm water management features. A long-term maintenance agreement is included as part of the application package.

Post Construction Standards

Peak Discharge

In accordance with NR 151.12 (5) (b) 2. (b) Peak Discharge, the peak discharge requirement does not apply to a redevelopment post-construction site.

Infiltration

In accordance with NR 151.12 (5) (c) 6. (c) Infiltration, the infiltration requirement does not apply to a redevelopment post-construction site.

Total Suspended Solids Removal

In accordance with NR 151.12 (5) (a) 2. And NR151.122 Table 1, a redevelopment site requires a 40% Total suspended solids (TSS) reduction.

The TSS is treated on this site by buffer strips and grass swales. TSS removal calculations have been completed in WinSLAMM and output summaries are included as part of the application.

TSS Removal Summary:

Site Condition	Particulate Solids Yield (lbs)	Reduction (%)
Without Controls	1719	-
With Controls	1016	40.90