



Committee to Honor America's Veterans
7385 Balmore Drive SW★Sunset Beach★NC★28468
910.575.4162
honoramericasveterans@gmail.com
www.sbvets.org

Veterans' Memorial Impact on the Park Impervious Area

General Dimensions:

1 acre = 43,560 sq ft.

5.2 acre = 226,512 sq ft. (size of the park)

12% = 27,181 sq ft. (max limit for impervious construction)

908 sq ft. (area of the concrete base for the Veterans' Memorial)

Impact as Percentage of Areas:

1. 908 Sq ft = .0027 of park area or about 0.27% or about 1/4 of 1% of the park (400 = .0018 or 0.18% or 1/5 of 1%).

2. 908 sq ft = 0.038 or less than 4% of impervious area (400 = 0.015 or 1.5%).

Ways to Visualize the Impact: After accounting for 908 sq ft of permitted 27,181 sq ft of allowable impervious area, there still remains 26,273 sq ft of space permitted for impervious material.

- Or described another way, there is room for a 50'x50' gazebo, two 40'x30' restroom buildings, and eight 2,600 sq ft ranch houses.

Other Factors: The alternative plan using separated concrete footings requires approximately 400 square feet of concrete (see sketch).

- From an engineering perspective, the solid pad versus separated footings provides a consistent surface and a more stable base.
- The change in impact on the park and the impervious area is minimal.
- The separated footings increase the cost from \$6,000 to an estimated \$8,500 due to increased labor and complexity of construction.
- Construction using separated concrete footings would disturb a larger area of soil, potentially causing CAMA concerns.

Conclusions: Constructing the Veterans' Memorial with a full concrete pad has minimal impact on the impervious limits for the Park and still allows ample room for future Park construction of a gazebo, rest rooms, and other prospective facilities without changing the design of the Memorial. On the contrary, changing the design increases the cost of building the Memorial and sacrifices its structural integrity.

Recommendation: Approve building the Memorial with a solid concrete pad/base, as planned.

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