A viewshed analysis was undertaken by The Louis Berger Group, Inc. (Berger) and its subconsultant, Beyer Blinder Belle, Architects and Planners to analyze different building heights and mass in context. The viewshed analysis consisted of a three step process. First, the Berger Team carried out a visual reconnaissance of the views of the NMAAHC site from spots in the city and from across the Potomac River in Virginia. Each major location from which the museum might be visible, both close up and from afar, was included. Digital photographs with the point of origin noted were taken to serve as backgrounds upon which simple wire diagrams representing the museum at a certain height or scale could be electronically superimposed. The object was to provide an easily accessible answer to the question of how the addition of a building at a given height and width would affect the view of the site from all the most significant and/or familiar vantage points. Secondly, a 3D modeling technique was used to simulate the volume of build out for each option. Finally, the volume was transposed over the existing photograph in order to simulate the area of impact and the degree to which adjacent historic resources would be obscured. The viewshed analysis was performed on all options for the following primary views:

- From the top of the Washington Monument
- From the top of the Old Post Office
- 14th Street looking north
- 14th Street looking south
- Constitution Avenue looking west
- 15th Street looking north
- Washington Monument grounds looking east towards Department of Commerce
- Northeast corner of 14th Street & Constitution Avenue looking toward the Washington Monument
- Constitution Avenue looking east
- From the center of the Ellipse looking southeast

- From the southeast corner of the Washington Monument Grounds
- From the Arlington House

In addition, several secondary views are shown in their existing conditions to delineate the “no effect” categorization in the Tier I FEIS analysis. These views are shown on page 138 of the Appendix and include:

- From the center of the Mall
- From Capitol Hill
- From the Lincoln Memorial
- From the center of the Ellipse looking at the Thomas Jefferson Memorial
- From the Thomas Jefferson Memorial
- From the Air Force Memorial
Above Grade 43,800 \times 5 = 219,000 \text{ SF} 75' 

Below Grade 98,000 \times 2 = 196,000 \text{ SF} 

Total 415,000 \text{ SF} 

* Monument Grounds data provided by NPS and does not represent as-built conditions.
ALT. 1
“Contextual Building Alignment”
ALT. 1

“Contextual Building Alignment”

from the tower of Old Post Office Building
ALT. 1

“Contextual Building Alignment”
ALT. 1

from 14th St. looking south

“Contextual Building Alignment ”
ALT. 1

from Constitution Ave. looking west

“Contextual Building Alignment ”
ALT. 1
“Contextual Building Alignment”
ALT. 1

“Contextual Building Alignment”
ALT. 1

“Contextual Building Alignment”
ALT. 1

“Contextual Building Alignment”
ALT. 1

“Contextual Building Alignment”
from the southeast corner of the Monument grounds
“Contextual Building Alignment”
ALT. 1

“Contextual Building Alignment”
Above Grade
30,000 x 6 = 180,000

Below Grade
98,000 x 2 = 196,000

Total
376,000

Program:

* Monument Grounds data provided by NPS and does not represent as-built conditions.
ALT. 2 "Washington Monument Orientation"
ALT. 2
“Washington Monument Orientation”
ALT. 2

“Washington Monument Orientation”

from the tower of Old Post Office Building
ALT. 2

from 14th St. looking south

“Washington Monument Orientation”
ALT. 2

“Washington Monument Orientation”

from Constitution Ave. looking west
ALT. 2

“Washington Monument Orientation”
ALT. 2

“Washington Monument Orientation”
ALT. 2

from Constitution Ave. looking east

“Washington Monument Orientation”
ALT. 2
“Washington Monument Orientation”

from NE Corner of 14th St. and Constitution Ave.
ALT. 2

“Washington Monument Orientation”

from the center of Ellipse looking southeast
from the southeast corner of the Monument grounds

“Washington Monument Orientation”
ALT. 2

“Washington Monument Orientation”
Program:
Above Grade  30,000  x 7 = 210,000  105'
Below Grade  67,000  x 3 = 201,000
Total 411,000

* Monument Grounds data provided by NPS and does not represent as-built conditions.
ALT. 3 “Free Form”
ALT. 3  “Free Form” from the tower of Old Post Office Building
ALT. 3
“Free Form”

from 14th St. looking south
ALT. 3
from Constitution Ave. looking west
“Free Form”
ALT. 3
“Free Form”
ALT. 3  “Free Form”
ALT. 3  “Free Form”
ALT. 3 “Free Form” from Constitution Ave. looking east
from the center of Ellipse looking southeast

ALT. 3 “Free Form”
from the southeast corner of the Monument grounds

“Free Form”
ALT. 3  “Free Form”
Program:
Above Grade  various floor plate @ 6 = 274,000  90'
Below Grade  111,500 x 1 = 111,500
Total  385,500

* Monument Grounds data provided by NPS and does not represent as-built conditions.
ALT. 4
“Terraced Roof”
ALT. 4

“Terraced Roof”

from the tower of Old Post Office Building
ALT. 4

“Terraced Roof” from 14th St. looking north
ALT. 4
“Terraced Roof”

from 14th St. looking south
ALT. 4

from Constitution Ave. looking west

“Terraced Roof”
ALT. 4

“Terraced Roof”
ALT. 4
“Terraced Roof”
ALT. 4

“Terraced Roof” from NE Corner of 14th St. and Constitution Ave.
ALT. 4

“Terraced Roof”
from the southeast corner of the Monument grounds

“Terraced Roof”
ALT. 4

“Terraced Roof”
Program:

Above Grade \(36,000 \times 6 = 216,000\) \(90'\)  
\(20,000 \times 2 = 20,000\) \(30'\)  
Below Grade \(78,000 \times 2 = 174,000\)  
Total \(430,000\)

* Monument Grounds data provided by NPS and does not represent as-built conditions.
ALT. 5 "Enframing"
ALT. 5 “Enframing”
ALT. 5
“Enframing”
ALT. 5  “Enframing” from 14th St. looking south
ALT. 5

from Constitution Ave. looking west

“Enframing”
ALT. 5  “Enframing”
ALT. 5 “Enframing”
ALT. 5
“Enframing”

from Constitution Ave. looking east
ALT. 5  “Enframing”
ALT. 5

“Enframing” from the southeast corner of the Monument grounds
ALT. 5  “Enframing” from Arlington House
Above Grade   30,000 x 4 = 120,000 SF
Below Grade   76,667 x 3 = 230,000 SF
Total          350,000 SF

Program:

* Monument Grounds data provided by NPS and does not represent as-built conditions.
ALT. 6  “Low Profile” from the top of Washington Monument
ALT. 6 “Low Profile”
ALT. 6
“Low Profile”

from 14th St. looking north
ALT. 6
“Low Profile”
ALT. 6

“Low Profile”

from Constitution Ave. looking west
ALT. 6
“Low Profile”
ALT. 6  “Low Profile”
ALT. 6 “Low Profile”
ALT. 6 "Low Profile" from Constitution Ave. looking east
ALT. 6 “Low Profile” from the center of Ellipse looking southeast
ALT. 6

“Low Profile”

from the southeast corner of the Monument grounds
ALT. 6  “Low Profile”
From Capitol Hill

Existing
Existing
From the center of Ellipse looking Thomas Jefferson Memorial

Existing
Existing

From Thomas Jefferson Memorial
From Air Force Memorial

Existing