Southeast Region
Infrastructure Fact Sheets
Park Index$^1, 2$

Abraham Lincoln Birthplace National Historical Park ................................................................. 1
Andersonville National Historic Site .......................................................................................... 2
Andrew Johnson National Historic Site .................................................................................... 3
Big Cypress National Preserve ................................................................................................. 4
Big South Fork National River & Recreation Area ..................................................................... 5
Birmingham Civil Rights National Monument ......................................................................... 6
Biscayne National Park ............................................................................................................... 7
Blue Ridge Parkway ................................................................................................................ 8
Buck Island Reef National Monument .................................................................................... 9
Canaveral National Seashore .................................................................................................. 10
Cane River Creole National Historical Park .......................................................................... 11
Cape Hatteras National Seashore .......................................................................................... 12
Cape Lookout National Seashore ............................................................................................ 13
Carl Sandburg Home National Historic Site .......................................................................... 14
Castillo de San Marcos National Monument ......................................................................... 15
Charles Pinckney National Historic Site ............................................................................... 16
Chattahoochee River National Recreation Area .................................................................... 17

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$^1$ This report includes all Southeast Region official park units that are managed in the Facility Management Software System (FMSS). Affiliated park units or regional offices with an inventory in the FMSS are also shown. The following official park units are not included in this report as they do not have any data managed in the FMSS: Brices Cross Roads National Battlefield Site and Poverty Point National Monument.

$^2$ There are 7 official NPS units which do not appear in this report because of the hierarchy of these units as organized in the FMSS. For the purposes of this report, the inventory associated with these 7 parks (left column) are included as a sub-set of the larger parks (right column).

<table>
<thead>
<tr>
<th>Sub Park</th>
<th>Parent Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fort Caroline National Memorial (FOCA)</td>
<td>Timucuan Ecological and Historic Preserve (TIMU)</td>
</tr>
<tr>
<td>Fort Matanzas National Monument (FOMA)</td>
<td>Castillo de San Marcos National Monument (CASA)</td>
</tr>
<tr>
<td>Fort Raleigh National Historic Site (FORA)</td>
<td>Cape Hatteras National Seashore (CAHA)</td>
</tr>
<tr>
<td>Natchez Trace National Scenic Trail (NATT)</td>
<td>Natchez Trace Parkway (NATR)</td>
</tr>
<tr>
<td>Tupelo National Battlefield (TUPE)</td>
<td>Natchez Trace Parkway (NATR)</td>
</tr>
<tr>
<td>Virgin Islands Coral Reef National Monument</td>
<td>Virgin Islands National Park (VIIS)</td>
</tr>
<tr>
<td>Wright Brothers National Memorial (WRBR)</td>
<td>Cape Hatteras National Seashore (CAHA)</td>
</tr>
</tbody>
</table>
Chickamauga & Chattanooga National Military Park ................................................................. .18
Christiansted National Historic Site ......................................................................................... .19
Congaree National Park ......................................................................................................... .20
Cowpens National Battlefield .............................................................................................. .21
Cumberland Gap National Historical Park ........................................................................... .22
Cumberland Island National Seashore .................................................................................. .23
De Soto National Memorial ................................................................................................... .24
Dry Tortugas National Park ................................................................................................. .25
Everglades National Park ..................................................................................................... .26
Fort Donelson National Battlefield ....................................................................................... .27
Fort Frederica National Monument ........................................................................................ .28
Fort Pulaski National Monument .......................................................................................... .29
Fort Sumter and Fort Moultrie National Historical Park ...................................................... .30
Freedom Riders National Monument .................................................................................. .31
Great Smoky Mountains National Park ................................................................................ .32
Guilford Courthouse National Military Park ......................................................................... .33
Gulf Islands National Seashore ............................................................................................ .34
Horseshoe Bend National Military Park ................................................................................ .35
Jean Lafitte National Historical Park and Preserve .............................................................. .36
Jimmy Carter National Historic Site .................................................................................... .37
Kennesaw Mountain National Battlefield Park ...................................................................... .38
Kings Mountain National Military Park ................................................................................ .39
Little River Canyon National Preserve ................................................................................ .40
Mammoth Cave National Park ............................................................................................ .41
Martin Luther King, Jr. National Historical Park ................................................................. .42
Moore’s Creek National Battlefield ....................................................................................... .43
Natchez National Historical Park ........................................................................................ .44
Natchez Trace Parkway ......................................................................................................... .45
New Orleans Jazz National Historical Park .......................................................................... .46
Ninety Six National Historic Site ........................................................................................ .47
Obed Wild & Scenic River .................................................................................................... .48
Ocmulgee Mounds National Historical Park ......................................................................... .49
Reconstruction Era National Historical Park ........................................................................ .50
Russell Cave National Monument ...................................................................................... .51
Salt River Bay National Historical Park and Ecological Preserve ....................................... .52
San Juan National Historic Site ............................................................................................ .53
Selma to Montgomery National Historic Trail ................................................................. .54
Shiloh National Military Park ............................................................................................... .55
Southeast Archeology Center .................................................................
Stones River National Battlefield ........................................................
Timucuan Ecological & Historic Preserve ............................................
Tuskegee Airmen National Historic Site ..............................................
Tuskegee Institute National Historic Site .............................................
Vicksburg National Military Park .........................................................
Virgin Islands National Park .................................................................
Abraham Lincoln Birthplace National Historical Park
Infrastructure Fact Sheet

238 Thousand Annual Visitors¹
$19 Million in Economic Output²

Infrastructure Inventory
The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **14 Buildings**
- **2 Miles of Trails**
- **2 Housing Units**
- **0 Campgrounds**
- **2 Miles of Unpaved Roads**
- **3 Water Systems**
- **2 Waste Water Systems**
- **< 1 Mile of Paved Roads**
- **14 All Other Assets**

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.

¹All Other assets include maintained landscapes, utility systems, and interpretive media.

Estimated Maintenance Needs³
The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

There is also a $115 K annual Routine Maintenance⁴ requirement in addition to the costs shown above.

<table>
<thead>
<tr>
<th>Buildings</th>
<th>Paved Roads &amp; Structures</th>
<th>All Remaining Asset Categories</th>
</tr>
</thead>
<tbody>
<tr>
<td>$3 M</td>
<td>$586 K</td>
<td>$1 M</td>
</tr>
</tbody>
</table>

¹Paved Roads & Structures includes paved roadways and paved parking areas.
Note: Estimated maintenance needs may not sum exactly to the total need due to rounding.

Project Funding
Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows an example project in the current funding stream. Not all estimated maintenance needs are captured in the project below.

<table>
<thead>
<tr>
<th>Project in Current Funding Stream</th>
<th>Estimated Project Cost⁵</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rehabilitate Hazardous Materials Storage Building</td>
<td>$11,000</td>
</tr>
</tbody>
</table>

³Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
⁴Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
⁵Cost estimates for projects are dependent on the current phase and size of each project’s scoping and costing process. Planning for larger, more complex projects requires a longer lead time and preconstruction activities may be funded separately. These estimates continue to be refined as scoping and design is completed and the project moves toward execution. Costs are rounded to the nearest thousand.
Infrastructure Inventory
The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **12 Buildings**
- **0 Campgrounds**
- **3 Waste Water Systems**
- **< 1 Mile of Trails**
- **< 1 Mile of Unpaved Roads**
- **5 Miles of Paved Roads**
- **0 Housing Units**
- **3 Water Systems**
- **72 All Other Assets**

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.

†All Other assets include maintained landscapes, boundaries, utility systems, monuments, fortifications, and interpretive media.

Estimated Maintenance Needs³
The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

- **Deferred Maintenance $15 M**
- **Capital Improvement $545 K**
- **Other Facility Maintenance $3 M**
- **Total Need $19 M**

There is also a **$456 K annual Routine Maintenance⁴** requirement in addition to the costs shown above.

Buildings and Paved Roads & Structures⁵ have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

- **$5 M for Buildings**
- **$5 M for Paved Roads & Structures**
- **$8 M for all remaining asset categories**

Driven by maintained landscapes ($5 M) and boundaries ($2 M)

²Paved Roads & Structures includes paved roadways, paved parking areas, and bridges.

Note: Estimated maintenance needs may not sum exactly to the total need due to rounding.

Project Funding
Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows examples of projects in the current funding stream. Not all estimated maintenance needs are captured in the projects below.

<table>
<thead>
<tr>
<th>Projects in Current Funding Stream</th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Repoint Second third of Cemetery Wall</td>
<td>$744,000</td>
</tr>
<tr>
<td>Clean and Repoint SouthWest Section of Historic Cemetery Wall</td>
<td>$548,000</td>
</tr>
<tr>
<td>Repair Civilian Conservation Corps Erosion Control Channels</td>
<td>$548,000</td>
</tr>
<tr>
<td>Rehabilitate Rostrum, Prisoner of War Museum Courtyard, Entrance Gate Wall and Exit Gate Wall</td>
<td>$380,000</td>
</tr>
<tr>
<td>Replace Fire Alarm System for Prisoner of War Museum and Administrative Building</td>
<td>$190,000</td>
</tr>
</tbody>
</table>

³Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
⁴Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
⁵Cost estimates for projects are dependent on the current phase and size of each project’s scoping and costing process. Planning for larger, more complex projects requires a longer lead time and reconstruction activities may be funded separately. These estimates continue to be refined as scoping and design is completed and the project moves toward execution. Costs are rounded to the nearest thousand.
Infrastructure Inventory
The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **10 Buildings**
- **0 Campgrounds**
- **0 Waste Water Systems**
- **0 Miles of Trails**
- **0 Miles of Unpaved Roads**
- **< 1 Mile of Paved Roads**
- **0 Housing Units**
- **13 All Other Assets†**
- **0 Water Systems**

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.
†All Other assets include maintained landscapes, utility systems, monuments, and interpretive media.

Estimated Maintenance Needs³
The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

- **Deferred Maintenance $2 M**
- **Other Facility Maintenance $324 K**
- **Capital Improvement $246 K**

There is also a $110 K annual Routine Maintenance requirement in addition to the costs shown above.

### Buildings and Paved Roads & Structures† have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

<table>
<thead>
<tr>
<th>Asset Category</th>
<th>Estimated Maintenance Needs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Buildings</td>
<td><strong>$1 M</strong></td>
</tr>
<tr>
<td>Paved Roads &amp; Structures</td>
<td><strong>$195 K</strong></td>
</tr>
<tr>
<td>All remaining asset categories</td>
<td><strong>$1 M</strong></td>
</tr>
</tbody>
</table>

†Paved Roads & Structures includes paved roadways and paved parking areas.

Note: Estimated maintenance needs may not sum exactly to the total need due to rounding.

Project Funding
Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows examples of projects in the current funding stream. Not all estimated maintenance needs are captured in the projects below.

<table>
<thead>
<tr>
<th>Projects in Current Funding Stream</th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rehabilitate Historic Wood Windows on Lodge Building</td>
<td><strong>$134,000</strong></td>
</tr>
<tr>
<td>Replace Visitor Center and Memorial Building Mechanical Systems</td>
<td><strong>$87,000</strong></td>
</tr>
<tr>
<td>Repair Lodge Wooden Gutters and Exterior Mill Work</td>
<td><strong>$59,000</strong></td>
</tr>
</tbody>
</table>

³ Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
⁴ Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
⁵ Cost estimates for projects are dependent on the current phase and size of each project’s scoping and costing process. Planning for larger, more complex projects requires a longer lead time and preconstruction activities may be funded separately. These estimates continue to be refined as scoping and design is completed and the project moves toward execution. Costs are rounded to the nearest thousand.
Infrastructure Inventory

The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **141 Buildings**
- **287 Miles of Trails**
- **66 Housing Units**
- **10 Campgrounds**
- **19 Miles of Unpaved Roads**
- **21 Water Systems**
- **34 Waste Water Systems**
- **26 Miles of Paved Roads**
- **87 All Other Assets**

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.

†All Other assets include maintained landscapes, utility systems, dams, constructed waterways, aviation systems, monuments, interpretive media, and amphitheaters.

Estimated Maintenance Needs

The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

There is also a $6 M annual Routine Maintenance requirement in addition to the costs shown above.

**Estimated Project Cost**

- Upgrade Headquarters Fire Suppression Systems: $642,000
- Build 16 New Picnic Shelters and 1 Interpretive Kiosk: $417,000
- Repair/Rehabilitate the Teufel Property: $409,000
- Replace 3 Hunter Check-in Stations: $376,000
- Repair Headquarters Roof: $183,000

Projects in Current Funding Stream

Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows examples of projects in the current funding stream. Not all estimated maintenance needs are captured in the projects below.

3. Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
4. Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
5. Cost estimates for projects are dependent on the current phase and size of each project’s scoping and costing process. Planning for larger, more complex projects requires a longer lead time and preconstruction activities may be funded separately. These estimates continue to be refined as scoping and design is completed and the project moves toward execution. Costs are rounded to the nearest thousand.
**Infrastructure Inventory**

The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **117** Buildings
- **458** Miles of Trails
- **5** Housing Units
- **65** Miles of Unpaved Roads
- **4** Water Systems
- **265** All Other Assets
- **33** Waste Water Systems
- **26** Miles of Paved Roads
- **7** Campgrounds

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.

†All Other assets include trail bridges, maintained landscapes, boundaries, utility systems, dams, marinas, railroad systems, interpretive media, and amphitheaters.

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**Estimated Maintenance Needs**

The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

There is also a $8 M annual Routine Maintenance requirement in addition to the costs shown above.

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**Paved Roads & Structures** and **Unpaved Roads** have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

<table>
<thead>
<tr>
<th>Paved Roads &amp; Structures</th>
<th>Unpaved Roads</th>
<th>All Remaining Asset Categories</th>
</tr>
</thead>
<tbody>
<tr>
<td>$14 M</td>
<td>$7 M</td>
<td>$9 M for all remaining asset categories</td>
</tr>
</tbody>
</table>

Driven by trails ($4 M) and buildings ($2 M)

†Paved Roads & Structures includes paved roadways, paved parking areas, and bridges.

Note: Estimated maintenance needs may not sum exactly to the total need due to rounding.

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**Project Funding**

Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows examples of projects in the current funding stream. Not all estimated maintenance needs are captured in the projects below.

<table>
<thead>
<tr>
<th>Projects in Current Funding Stream</th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Correct 8 Miles of Fork Ridge Trails to Mitigate Erosion From Improper Water Drainage</td>
<td>$473,000</td>
</tr>
<tr>
<td>Rehabilitate 5.8 Miles of Road &amp; Trail Surfaces to Correct Improper Water Drainage</td>
<td>$452,000</td>
</tr>
<tr>
<td>Replace Rustic Fence at Historic Oscar Blevins Farm</td>
<td>$226,000</td>
</tr>
<tr>
<td>Repair Poor Surface Drainage on Three Heavily Used Multi-Use Trails</td>
<td>$201,000</td>
</tr>
<tr>
<td>Install Waterline to Bandy Creek Campground to Improve Water Production</td>
<td>$196,000</td>
</tr>
</tbody>
</table>

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3 Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
4 Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
5 Cost estimates for projects are dependent on the current phase and size of each project’s scoping and costing process. Planning for larger, more complex projects requires a longer lead time and preconstruction activities may be funded separately. These estimates continue to be refined as scoping and design is completed and the project moves toward execution. Costs are rounded to the nearest thousand.
Infrastructure Inventory

The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **1 Building**
- **0 Campgrounds**
- **0 Waste Water Systems**
- **0 Miles of Trails**
- **0 Miles of Unpaved Roads**
- **0 Miles of Paved Roads**
- **0 Housing Units**
- **0 Water Systems**
- **0 All Other Assets**

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.
†There are no other asset categories at Birmingham Civil Rights National Monument.

Estimated Maintenance Needs

The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

There is also a **$6 K annual Routine Maintenance** requirement in addition to the costs shown above.

Buildings have the highest estimated maintenance needs by asset category at the park. The figure below does not include the cost of Routine Maintenance.

$2 M for Buildings

Note: Estimated maintenance needs may not sum exactly to the total need due to rounding.

Project Funding

Birmingham Civil Rights National Monument does not have any projects in the formulated lists released publicly.

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3 Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
4 Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
5 This includes projects in the following fund sources: Recreation Fee Revenue (FY 2021 Congressional Justification), Repair/Rehabilitation (FY 2021 – 2025), Line Item Construction (FY 2021 – 2025), and Federal Lands Transportation Program (FY 2020 – 2021).
Infrastructure Inventory
The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **35 Buildings**
- **10 Miles of Trails**
- **6 Housing Units***
- **2 Campgrounds**
- **0 Miles of Unpaved Roads**
- **4 Water Systems**
- **< 1 Mile of Paved Roads**
- **30 All Other Assets†**

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.
†All Other assets include trail bridges, maintained landscapes, boundaries, utility systems, constructed waterways, marinas, maintained archeological sites, and interpretive media.

Estimated Maintenance Needs
The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

There is also a $430 K annual Routine Maintenance requirement in addition to the costs shown above.

Paved Roads & Structures and Buildings have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

- $1 M for Paved Roads & Structures
- $264 K for Buildings
- $600 K for all remaining asset categories

Driven by constructed waterways ($229 K) and campgrounds ($103 K)

Project Funding
Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows examples of projects in the current funding stream. Not all estimated maintenance needs are captured in the projects below.

<table>
<thead>
<tr>
<th>Projects in Current Funding Stream</th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Repair and Repoint Historic Stone seawall and other walls at Boca Chita</td>
<td>$909,000</td>
</tr>
<tr>
<td>Replace Diesel Generator with Solar Power on Remote Island Elliott Key</td>
<td>$485,000</td>
</tr>
<tr>
<td>Preserve Boca Chita Key Windows and Doors</td>
<td>$321,000</td>
</tr>
<tr>
<td>Replace Gate Valves at Convoy Point and Remove Valves and Band Irrigation</td>
<td>$177,000</td>
</tr>
<tr>
<td>Rehabilitate Visitor Use Areas to Ensure Compliance with Universal Accessibility Standards</td>
<td>$135,000</td>
</tr>
</tbody>
</table>

3 Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
4 Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
5 Cost estimates for projects are dependent on the current phase and size of each project’s scoping and costing process. Planning for larger, more complex projects requires a longer lead time and preconstruction activities may be funded separately. These estimates continue to be refined as scoping and design is completed and the project moves toward execution. Costs are rounded to the nearest thousand.
Blue Ridge Parkway
Infrastructure Fact Sheet

15 Million Annual Visitors¹
$1.4 Billion in Economic Output²

Infrastructure Inventory
The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- 502 Buildings
- 361 Miles of Trails
- 16 Miles of Unpaved Roads
- 23 Housing Units*
- 10 Campgrounds
- 89 Waste Water Systems
- 1,006 Miles of Paved Roads
- 1,255 All Other Assets†

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.
†All Other assets include trail bridges, trail tunnels, maintained landscapes, utility systems, dams, constructed waterways, marinas, railroad systems, monuments, fortifications, interpretive media, and amphitheaters.

Estimated Maintenance Needs³
The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

There is also a $19 M annual Routine Maintenance⁴ requirement in addition to the costs shown above.

Paved Roads & Structures¹ and Buildings have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

- $472 M for Paved Roads & Structures
- $36 M for Buildings
- $32 M for all remaining asset categories

¹Paved Roads & Structures includes paved roadways, paved parking areas, bridges, and tunnels.
²Note: Estimated maintenance needs may not sum exactly to the total need due to rounding.

Project Funding
Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows examples of projects in the current funding stream. Not all estimated maintenance needs are captured in the projects below.

<table>
<thead>
<tr>
<th>Projects in Current Funding Stream</th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blue Ridge Parkway Road and Bridge Reconstruction (VA and NC)</td>
<td>$187,000,000</td>
</tr>
<tr>
<td>Repair Laurel Fork Bridge 159P</td>
<td>$15,000,000</td>
</tr>
<tr>
<td>Upgrade Parkway Communications System</td>
<td>$1,626,000</td>
</tr>
<tr>
<td>Repair Overlooks in Road Section 1G (Milepost 50.10 to 63.61)</td>
<td>$1,134,000</td>
</tr>
<tr>
<td>Repair Overlooks, Parking, and Access in Road Section 1J (Milepost 74.60 to 85.59)</td>
<td>$1,108,000</td>
</tr>
</tbody>
</table>

³Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
⁴Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
⁵Cost estimates for projects are dependent on the current phase and size of each project’s scoping and costing process. Planning for larger, more complex projects requires a longer lead time and preconstruction activities may be funded separately. These estimates continue to be refined as scoping and design is completed and the project moves toward execution. Costs are rounded to the nearest thousand.
Infrastructure Inventory

The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **3 Buildings**
- **2 Miles of Trails**
- **0 Campinggrounds**
- **0 Waste Water Systems**
- **0 Miles of Unpaved Roads**
- **0 Water Systems**
- **0 Housing Units**
- **13 All Other Assets**

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.

†All Other assets include maintained landscapes, marinas, maintained archeological sites, and interpretive media.

Estimated Maintenance Needs

The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

There is also a **$41 K annual Routine Maintenance** requirement in addition to the costs shown above.

<table>
<thead>
<tr>
<th>Trails</th>
<th>Buildings</th>
<th>All Remaining Asset Categories</th>
</tr>
</thead>
</table>
| **$137 K** for Trails | **$50 K** for Buildings | **$442 K** for all remaining asset categories (Driven by marinas ($268 K) and interpretive media ($120 K))

Note: Estimated maintenance needs may not sum exactly to the total need due to rounding.

Project Funding

Buck Island Reef National Monument does not have any projects in the formulated lists released publicly.

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3. Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
4. Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
5. This includes projects in the following fund sources: Recreation Fee Revenue (FY 2021 Congressional Justification), Repair/Rehabilitation (FY 2021 – 2025), Line Item Construction (FY 2021 – 2025), and Federal Lands Transportation Program (FY 2020 – 2021).
Canaveral National Seashore Infrastructure Fact Sheet

1.9 Million Annual Visitors\(^1\)  $95 Million in Economic Output\(^2\)

Infrastructure Inventory
The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **72 Buildings**
- **3 Miles of Trails**
- **6 Miles of Unpaved Roads**
- **2 Water Systems**
- **1 Campground**
- **17 Miles of Paved Roads**
- **2 Waste Water Systems**
- **0 Housing Units\(^*\)**
- **2 Campground Units**
- **6 Miles of Paved Roads**
- **37 All Other Assets\(^\dagger\)**

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.

\(^1\)All Other assets include maintained landscapes, utility systems, marinas, maintained archeological sites, and interpretive media.

Estimated Maintenance Needs\(^3\)
The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

- **Deferred Maintenance $16 M**
- **Capital Improvement $596 K**
- **Other Facility Maintenance $2 M**
- **Total Need $19 M**

There is also a $607 K annual Routine Maintenance\(^4\) requirement in addition to the costs shown above.

Paved Roads & Structures\(^5\) and Buildings have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

<table>
<thead>
<tr>
<th>Paved Roads &amp; Structures(^5)</th>
<th>Buildings</th>
<th>All Remaining Asset Categories</th>
</tr>
</thead>
<tbody>
<tr>
<td>$14 M for Paved Roads &amp; Structures</td>
<td>$3 M for Buildings</td>
<td>$2 M for all remaining asset categories</td>
</tr>
</tbody>
</table>

*Paved Roads & Structures includes paved roadways and paved parking areas.

Note: Estimated maintenance needs may not sum exactly to the total need due to rounding.

Project Funding
Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows examples of projects in the current funding stream. Not all estimated maintenance needs are captured in the projects below.

<table>
<thead>
<tr>
<th>Projects in Current Funding Stream</th>
<th>Estimated Project Cost(^5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Replace Fellers House Dock and Pier</td>
<td>$177,000</td>
</tr>
<tr>
<td>Replace Eddy Creek Dock</td>
<td>$123,000</td>
</tr>
</tbody>
</table>

---


\(^3\)Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.

\(^4\)Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.

\(^5\)Cost estimates for projects are dependent on the current phase and size of each project’s scoping and costing process. Planning for larger, more complex projects requires a longer lead time and preconstruction activities may be funded separately. These estimates continue to be refined as scoping and design is completed and the project moves toward execution. Costs are rounded to the nearest thousand.
Infrastructure Inventory

The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **49 Buildings**
- **2 Miles of Trails**
- **0 Housing Units***
- **0 Campgrounds**
- **1 Mile of Unpaved Roads**
- **2 Water Systems**
- **< 1 Mile of Paved Roads**
- **25 All Other Assets†**
- **3 Waste Water Systems**

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.
†All Other assets include maintained landscapes, boundaries, utility systems, marinas, monuments, maintained archeological sites, and interpretive media.

Estimated Maintenance Needs

The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

- **Total Need: $6 M**
  - **Capital Improvement: $195 K**
  - **Other Facility Maintenance: $1 M**
  - **Deferred Maintenance: $4 M**

There is also a **$288 K annual Routine Maintenance** requirement in addition to the costs shown above.

### Buildings and Unpaved Roads

Buildings and Unpaved Roads have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

- $3 M for Buildings
- $310 K for Unpaved Roads
- $2 M for all remaining asset categories

Driven by maintained landscapes ($1 M) and solid waste and recycling systems ($510 K)

Note: Estimated maintenance needs may not sum exactly to the total need due to rounding.

Project Funding

Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows examples of projects in the current funding stream. Not all estimated maintenance needs are captured in the projects below.

<table>
<thead>
<tr>
<th>Projects in Current Funding Stream</th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rehabilitate Oakland Trail System</td>
<td>$416,000</td>
</tr>
<tr>
<td>Rehabilitate Magnolia Trail System</td>
<td>$332,000</td>
</tr>
<tr>
<td>Repair Wood Components at 8 Magnolia Slave-Tenant Cabins</td>
<td>$149,000</td>
</tr>
<tr>
<td>Install Magnolia Gin Barn Lighting</td>
<td>$73,000</td>
</tr>
</tbody>
</table>

3. Total need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
4. Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
5. Cost estimates for projects are dependent on the current phase and size of each project’s scoping and costing process. Planning for larger, more complex projects requires a longer lead time and preconstruction activities may be funded separately. These estimates continue to be refined as scoping and design is completed and the project moves toward execution. Costs are rounded to the nearest thousand.
Infrastructure Inventory

The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **194 Buildings**
- **13 Miles of Trails**
- **58 Housing Units**
- **5 Campgrounds**
- **25 Miles of Unpaved Roads**
- **17 Water Systems**
- **38 Waste Water Systems**
- **112 Miles of Paved Roads**
- **129 All Other Assets**

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.

†All Other assets include maintained landscapes, boundaries, utility systems, marinas, aviation systems, monuments, maintained archeological sites, fortifications, interpretive media, and amphitheaters.

Estimated Maintenance Needs

The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

- **Total Need $79 M**
- **Deferred Maintenance $50 M**
- **Capital Improvement $23 M**
- **Other Facility Maintenance $6 M**

There is also a $4 M annual Routine Maintenance requirement in addition to the costs shown above.

<table>
<thead>
<tr>
<th>Buildings and Paved Roads &amp; Structures</th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>$26 M for Buildings</td>
<td>$3,612,000</td>
</tr>
<tr>
<td>$20 M for Paved Roads &amp; Structures</td>
<td>$838,000</td>
</tr>
<tr>
<td>$32 M for all remaining asset categories</td>
<td>$672,000</td>
</tr>
</tbody>
</table>

Buildings and Paved Roads & Structures have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

<table>
<thead>
<tr>
<th>Project Description</th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Replace Fort Raleigh and Frisco Water Systems</td>
<td>$3,612,000</td>
</tr>
<tr>
<td>Preserve Ocracoke Lighthouse</td>
<td>$838,000</td>
</tr>
<tr>
<td>Update Data and Communication Infrastructure</td>
<td>$685,000</td>
</tr>
<tr>
<td>Rehabilitate Historic Keeper’s Quarters on Ocracoke Island</td>
<td>$672,000</td>
</tr>
<tr>
<td>Replace Seating Chairs in the Fort Raleigh Lost Colony Amphitheater</td>
<td>$542,000</td>
</tr>
</tbody>
</table>

Project Funding

Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows examples of projects in the current funding stream. Not all estimated maintenance needs are captured in the projects below.

<table>
<thead>
<tr>
<th>Projects in Current Funding Stream</th>
<th>Estimated Project Cost</th>
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</thead>
<tbody>
<tr>
<td>Replace Fort Raleigh and Frisco Water Systems</td>
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</tr>
<tr>
<td>Rehabilitate Historic Keeper’s Quarters on Ocracoke Island</td>
<td>$672,000</td>
</tr>
<tr>
<td>Replace Seating Chairs in the Fort Raleigh Lost Colony Amphitheater</td>
<td>$542,000</td>
</tr>
</tbody>
</table>

**Footnotes:**
1 Fort Raleigh National Historic Site and Wright Brothers National Memorial are included as they are co-managed with Cape Hatteras National Seashore.
4 Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
5 Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
6 Cost estimates for projects are dependent on the current phase and size of each project’s scoping and costing process. Planning for larger, more complex projects requires a longer lead time and preconstruction activities may be funded separately. These estimates continue to be refined as scoping and design is completed and the project moves toward execution. Costs are rounded to the nearest thousand.
Infrastructure Inventory
The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **159 Buildings**
- **0 Campgrounds**
- **30 Waste Water Systems**
- **2 Miles of Trails**
- **39 Miles of Unpaved Roads**
- **< 1 Mile of Paved Roads**
- **7 Housing Units**

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.

†All Other assets include maintained landscapes, boundaries, utility systems, marinas, maintained archeological sites, and interpretive media.

Estimated Maintenance Needs
The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

There is also a **$718 K annual Routine Maintenance** requirement in addition to the costs shown above.

Buildings and Trails have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

- **$20 M for Buildings**
- **$2 M for Trails**
- **$13 M for all remaining asset categories**

Driven by marinas ($7 M) and maintained landscapes ($3 M)

Note: Estimated maintenance needs may not sum exactly to the total need due to rounding.

Project Funding
Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows examples of projects in the current funding stream. Not all estimated maintenance needs are captured in the projects below.

<table>
<thead>
<tr>
<th>Projects in Current Funding Stream</th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preserve Cape Lookout Village Life Saving Station</td>
<td>$561,000</td>
</tr>
<tr>
<td>Stabilize and Sustain the Cape Coast Guard Station</td>
<td>$551,000</td>
</tr>
<tr>
<td>Remove and Replace Shackleford Banks Resource Management All-Terrain Vehicle Shed</td>
<td>$169,000</td>
</tr>
</tbody>
</table>

3. Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
4. Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
5. Cost estimates for projects are dependent on the current phase and size of each project’s scoping and costing process. Planning for larger, more complex projects requires a longer lead time and preconstruction activities may be funded separately. These estimates continue to be refined as scoping and design is completed and the project moves toward execution. Costs are rounded to the nearest thousand.
Infrastructure Inventory

The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **40 Buildings**
- **4 Miles of Trails**
- **1 Housing Unit**
- **<1 Mile of Unpaved Roads**
- **<1 Mile of Paved Roads**
- **1 Water System**
- **1 Water System**
- **<1 Mile of Unpaved Roads**
- **31 All Other Assets**

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.

†All Other assets include trail bridges, maintained landscapes, boundaries, utility systems, dams, constructed waterways, maintained archeological sites, interpretive media, and amphitheaters.

Estimated Maintenance Needs

The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

There is also a $263 K annual Routine Maintenance requirement in addition to the costs shown above.

- **Total Need** $3 M
- **Capital Improvement** $532 K
- **Deferred Maintenance** $2 M
- **Other Facility Maintenance** $500 K

Buildings and Paved Roads & Structures have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

- **$2 M for Buildings**
- **$636 K for Paved Roads & Structures**
- **$1 M for all remaining asset categories**

Driven by amphitheaters ($503 K) and trails ($190 K)

Project Funding

Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows an example project in the current funding stream. Not all estimated maintenance needs are captured in the project below.

<table>
<thead>
<tr>
<th>Project in Current Funding Stream</th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Expand Administrative Parking Lot</td>
<td>$374,000</td>
</tr>
</tbody>
</table>

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3. Total need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
4. Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
5. Cost estimates for projects are dependent on the current phase and size of each project’s scoping and costing process. Planning for larger, more complex projects requires a longer lead time and preconstruction activities may be funded separately. These estimates continue to be refined as scoping and design is completed and the project moves toward execution. Costs are rounded to the nearest thousand.
Infrastructure Inventory

The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **19 Buildings**
- **< 1 Mile of Trails**
- **0 Campgrounds**
- **< 1 Mile of Unpaved Roads**
- **2 Housing Units**
- **0 Miles of Paved Roads**
- **0 Waste Water Systems**
- **2 Water Systems**
- **30 All Other Assets**

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.

† All Other assets include maintained landscapes, utility systems, marinas, fortifications, and interpretive media.

Estimated Maintenance Needs

The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

There is also a $219 K annual Routine Maintenance requirement in addition to the costs shown above.

<table>
<thead>
<tr>
<th>Building and Paved Roads &amp; Structures</th>
<th>Total Need $10 M</th>
</tr>
</thead>
<tbody>
<tr>
<td>Buildings and Paved Roads &amp; Structures have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.</td>
<td><strong>$727 K for Buildings</strong></td>
</tr>
</tbody>
</table>

$8 M for all remaining asset categories

Driven by fortifications ($6 M) and maintained landscapes ($689 K)

Project Funding

Castillo de San Marcos National Monument does not have any projects in the formulated lists released publicly.

---

1. Fort Matanzas National Monument is included as it is co-managed with Castillo de San Marcos National Monument.
4. Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
5. Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
6. This includes projects in the following fund sources: Recreation Fee Revenue (FY 2021 Congressional Justification), Repair/Rehabilitation (FY 2021 – 2025), Line Item Construction (FY 2021 – 2025), and Federal Lands Transportation Program (FY 2020 – 2021).
Infrastructure Inventory
The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **Buildings**: 6
- **Campgrounds**: 0
- **Waste Water Systems**: 0
- **Trails**: < 1 Mile
- **Unpaved Roads**: 0
- **Housing Units**: 0
- **Water Systems**: 0
- **Paved Roads**: 6

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.

†All Other assets include maintained landscapes, utility systems, monuments, maintained archeological sites, and interpretive media.

Estimated Maintenance Needs
The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

There is also a **$71 K annual Routine Maintenance** requirement in addition to the costs shown above.

Buildings and Unpaved Roads have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

- **Buildings**: $644 K
- **Unpaved Roads**: $17 K
- **All other Assets**: $1 M

Note: Estimated maintenance needs may not sum exactly to the total need due to rounding.

Project Funding
Charles Pinckney National Historic Site does not have any projects in the formulated lists released publicly.

---

3. Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
4. Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
5. This includes projects in the following fund sources: Recreation Fee Revenue (FY 2021 Congressional Justification), Repair/Rehabilitation (FY 2021 – 2025), Line Item Construction (FY 2021 – 2025), and Federal Lands Transportation Program (FY 2020 – 2021).
**Infrastructure Inventory**

The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **40 Buildings**
- **53 Miles of Trails**
- **1 Housing Unit**
- **9 Miles of Unpaved Roads**
- **3 Water Systems**
- **102 All Other Assets**

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.

†All Other assets include trail bridges, maintained landscapes, utility systems, dams, marinas, maintained archeological sites, interpretive media, and amphitheaters.

**Estimated Maintenance Needs**

The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

- **Total Need** $16 M
- **Deferred Maintenance** $14 M
- **Capital Improvement** $2 M
- **Other Facility Maintenance** $598 K

There is also a **$1 M annual Routine Maintenance** requirement in addition to the costs shown above.

**Paved Roads & Structures** and **Unpaved Roads** have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

<table>
<thead>
<tr>
<th></th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paved Roads &amp; Structures</td>
<td>$8 M</td>
</tr>
<tr>
<td>Unpaved Roads</td>
<td>$4 M</td>
</tr>
<tr>
<td>All other asset categories</td>
<td>$4 M</td>
</tr>
</tbody>
</table>

Paved Roads & Structures includes paved roadways, paved parking areas, and bridges.

Note: Estimated maintenance needs may not sum exactly to the total need due to rounding.

**Project Funding**

Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows an example project in the current funding stream. Not all estimated maintenance needs are captured in the project below.

<table>
<thead>
<tr>
<th>Project in Current Funding Stream</th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rehabilitate the Chattahoochee River Environmental Education Center (CREEC)</td>
<td>$539,000</td>
</tr>
</tbody>
</table>

---

3. Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
4. Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
5. Cost estimates for projects are dependent on the current phase and size of each project’s scoping and costing process. Planning for larger, more complex projects requires a longer lead time and preconstruction activities may be funded separately. These estimates continue to be refined as scoping and design is completed and the project moves toward execution. Costs are rounded to the nearest thousand.
Infrastructure Inventory
The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **36 Buildings**
- **65 Miles of Trails**
- **1 Housing Unit** *
- **1 Campground**
- **5 Miles of Unpaved Roads**
- **0 Water Systems**
- **26 Miles of Paved Roads**
- **101 All Other Assets** †

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.
†All Other assets include maintained landscapes, utility systems, marinas, monuments, maintained archeological sites, fortifications, and interpretive media.

*Paved Roads & Structures† and Buildings have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

- **$23 M for Paved Roads & Structures**
- **$3 M for Buildings**
- **$22 M for all remaining asset categories**

Driven by maintained landscapes ($13 M) and marinas ($8 M)

Note: Estimated maintenance needs may not sum exactly to the total need due to rounding.

Estimated Maintenance Needs
The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

There is also a $6 M annual Routine Maintenance requirement in addition to the costs shown above.

Project Funding
Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows examples of projects in the current funding stream. Not all estimated maintenance needs are captured in the projects below.

<table>
<thead>
<tr>
<th>Projects in Current Funding Stream</th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Repair, Rehabilitation, Reconstruction of 2.01 Miles of Rt. 0500 Glenn Kelly</td>
<td>$1,509,000</td>
</tr>
<tr>
<td>Repair, Rehabilitation, Reconstruction of 1.96 Miles of Rt. 0102 Brotherton</td>
<td>$1,266,000</td>
</tr>
<tr>
<td>Paving And Storm Water Deficiencies Facility Maintenance Compound</td>
<td>$671,000</td>
</tr>
<tr>
<td>Replace Maintenance Compound Roofs</td>
<td>$455,000</td>
</tr>
<tr>
<td>Rehabilitation Maintenance Compound Restrooms To Accessibility and Environmental Requirements</td>
<td>$442,000</td>
</tr>
</tbody>
</table>

3 Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
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Infrastructure Inventory

The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **9 Buildings**
- **0 Campgrounds**
- **0 Waste Water Systems**
- **0 Miles of Trails**
- **0 Miles of Unpaved Roads**
- **< 1 Mile of Paved Roads**
- **3 Housing Units**
- **1 Water System**
- **15 All Other Assets**

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.

1 All Other assets include maintained landscapes, utility systems, marinas, monuments, fortifications, and interpretive media.

Estimated Maintenance Needs

The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

- **Capital Improvement $1 M**
- **Other Facility Maintenance $3 M**
- **Deferred Maintenance $11 M**
- **Total Need $15 M**

There is also a $203 K annual Routine Maintenance requirement in addition to the costs shown above.

Buildings and Paved Roads & Structures have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

- **$8 M for Buildings**
- **$2 M for Paved Roads & Structures**
- **$5 M for all remaining asset categories**

Paved Roads & Structures includes paved roadways and paved parking areas.

Note: Estimated maintenance needs may not sum exactly to the total need due to rounding.

Project Funding

Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows examples of projects in the current funding stream. Not all estimated maintenance needs are captured in the projects below.

<table>
<thead>
<tr>
<th>Projects in Current Funding Stream</th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preserve/Repair Danish Customs House (Park HQ)</td>
<td>$802,000</td>
</tr>
<tr>
<td>Restore Fort Christianvaern Entrance Ravelin, East and West Bastions</td>
<td>$697,000</td>
</tr>
<tr>
<td>Rehabilitate East Side Road</td>
<td>$625,000</td>
</tr>
<tr>
<td>Resurface Contact Station Road</td>
<td>$431,000</td>
</tr>
</tbody>
</table>

3 Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
4 Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
5 Cost estimates for projects are dependent on the current phase and size of each project’s scoping and costing process. Planning for larger, more complex projects requires a longer lead time and preconstruction activities may be funded separately. These estimates continue to be refined as scoping and design is completed and the project moves toward execution. Costs are rounded to the nearest thousand.
Infrastructure Inventory

The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

17 Buildings
39 Miles of Trails
6 Miles of Unpaved Roads
7 Waste Water Systems
3 Campgrounds
2 Miles of Paved Roads
0 Housing Units*
5 Water Systems
30 All Other Assets†

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.
†All Other assets include trail bridges, maintained landscapes, boundaries, utility systems, marinas, and interpretive media.

Estimated Maintenance Needs³

The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

There is also a $456 K annual Routine Maintenance⁴ requirement in addition to the costs shown above.

Trails and Paved Roads & Structures¹ have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

<table>
<thead>
<tr>
<th>Trails</th>
<th>Paved Roads &amp; Structures</th>
<th>All Remaining Asset Categories</th>
</tr>
</thead>
<tbody>
<tr>
<td>$9 M</td>
<td>$1 M</td>
<td>$3 M</td>
</tr>
</tbody>
</table>

¹Paved Roads & Structures includes paved roadways and paved parking areas.
Note: Estimated maintenance needs may not sum exactly to the total need due to rounding.

Project Funding

Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows examples of projects in the current funding stream. Not all estimated maintenance needs are captured in the projects below.

<table>
<thead>
<tr>
<th>Projects in Current Funding Stream</th>
<th>Estimated Project Cost⁵</th>
</tr>
</thead>
<tbody>
<tr>
<td>Replace Roofing and Install Fall Protection on Park Buildings</td>
<td>$604,000</td>
</tr>
<tr>
<td>Rehab Maintenance Bay Storage Building</td>
<td>$327,000</td>
</tr>
<tr>
<td>Rehabilitate Fire Building Failing Exterior and Install Insulation</td>
<td>$237,000</td>
</tr>
<tr>
<td>Correct Fire Suppression System and Water Tank Deficiencies</td>
<td>$140,000</td>
</tr>
<tr>
<td>Install Accessibility Compliant Vault Toilet on Sims Trail</td>
<td>$67,000</td>
</tr>
</tbody>
</table>

³ Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
⁴ Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
⁵ Cost estimates for projects are dependent on the current phase and size of each project’s scoping and costing process. Planning for larger, more complex projects requires a longer lead time and preconstruction activities may be funded separately. These estimates continue to be refined as scoping and design is completed and the project moves toward execution. Costs are rounded to the nearest thousand.
Infrastructure Inventory
The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **11 Buildings**
- **5 Miles of Trails**
- **2 Miles of Unpaved Roads**
- **4 Waste Water Systems**
- **3 Miles of Paved Roads**
- **1 Housing Unit**
- **0 Campgrounds**
- **0 Water Systems**
- **2 Campgrounds**
- **11 Miles of Unpaved Roads**
- **10 Water Systems**
- **30 All Other Assets**

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.

†All Other assets include trail bridges, maintained landscapes, boundaries, utility systems, monuments, maintained archeological sites, and interpretive media.

Estimated Maintenance Needs
The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

There is also a $363 K annual Routine Maintenance requirement in addition to the costs shown above.

Paved Roads & Structures and Buildings have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

<table>
<thead>
<tr>
<th></th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paved Roads &amp; Structures</td>
<td>$1 M</td>
</tr>
<tr>
<td>Buildings</td>
<td>$1 M</td>
</tr>
<tr>
<td>All Other Assets</td>
<td>$883 K</td>
</tr>
</tbody>
</table>

Paved Roads & Structures includes paved roadways and paved parking areas.

Note: Estimated maintenance needs may not sum exactly to the total need due to rounding.

Project Funding
Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows examples of projects in the current funding stream. Not all estimated maintenance needs are captured in the projects below.

<table>
<thead>
<tr>
<th>Projects in Current Funding Stream</th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rehabilitate Administrative Building to Comply with Accessibility Standards</td>
<td>$384,000</td>
</tr>
<tr>
<td>Correct Drainage at the Visitor Center</td>
<td>$162,000</td>
</tr>
<tr>
<td>Repair Damaged Concrete Around Monument</td>
<td>$43,000</td>
</tr>
</tbody>
</table>

3 Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
4 Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
5 Cost estimates for projects are dependent on the current phase and size of each project’s scoping and costing process. Planning for larger, more complex projects requires a longer lead time and preconstruction activities may be funded separately. These estimates continue to be refined as scoping and design is completed and the project moves toward execution. Costs are rounded to the nearest thousand.
Infrastructure Inventory
The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **Buildings**: 78
- **Trails**: 63 Miles
- **Water Systems**: 7
- **Campground**: 1
- **Housing Units**: 5
- **Unpaved Roads**: 10 Miles
- **Paved Roads**: 12 Miles

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.
†All Other assets include trail bridges, trail tunnels, maintained landscapes, boundaries, utility systems, monuments, maintained archeological sites, interpretive media, and amphitheaters.

**Estimated Maintenance Needs**
The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

- **Total Need**: $16 M
- **Deferred Maintenance**: $14 M
- **Capital Improvement**: $493 K
- **Other Facility Maintenance**: $2 M

There is also a **$3 M annual Routine Maintenance** requirement in addition to the costs shown above.

**Paved Roads & Structures** and **Buildings** have the highest estimated **maintenance needs** by asset category at the park. The figures below do not include the cost of Routine Maintenance.

- **$9 M** for Paved Roads & Structures
- **$3 M** for Buildings
- **$4 M** for all remaining asset categories

Driven by maintained landscapes ($2 M) and trails ($725 K)

**Project Funding**
Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows examples of projects in the current funding stream. Not all estimated maintenance needs are captured in the projects below.

<table>
<thead>
<tr>
<th>Projects in Current Funding Stream</th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rehabilitate Willie Gibbons Barn and Black Smith Shop Exteriors</td>
<td>$378,000</td>
</tr>
<tr>
<td>Clean Little Yellow Creek Culverts</td>
<td>$351,000</td>
</tr>
<tr>
<td>Replacement of Gap Creek Wilderness Road Trail Bridge</td>
<td>$190,000</td>
</tr>
<tr>
<td>Davis Branch Road Repair-Rehabilitation</td>
<td>$120,000</td>
</tr>
<tr>
<td>Repair and Maintain Tri-State Shelter</td>
<td>$46,000</td>
</tr>
</tbody>
</table>

3. Total need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
4. Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
5. Cost estimates for projects are dependent on the current phase and size of each project’s scoping and costing process. Planning for larger, more complex projects requires a longer lead time and preconstruction activities may be funded separately. These estimates continue to be refined as scoping and design is completed and the project moves toward execution. Costs are rounded to the nearest thousand.
Infrastructure Inventory

The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **64 Buildings**
- **37 Miles of Trails**
- **12 Housing Units**
- **38 Miles of Unpaved Roads**
- **18 Water Systems**
- **48 All Other Assets**

Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.

*All Other assets include maintained landscapes, utility systems, marinas, maintained archeological sites, and interpretive media.

**Buildings and Trails** have the highest **estimated maintenance needs** by asset category at the park. The figures below do not include the cost of Routine Maintenance.

- **$5 M for Buildings**
- **$1 M for Trails**
- **$8 M for all remaining asset categories**

Driven by marinas ($5 M) and unpaved roads ($634 K)

**Estimated Maintenance Needs**

The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

- **Deferred Maintenance $7 M**
- **Capital Improvement $794 K**
- **Other Facility Maintenance $6 M**
- **Total Need $14 M**

There is also a **$1 M annual Routine Maintenance** requirement in addition to the costs shown above.

Project Funding

Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows examples of projects in the current funding stream. Not all estimated maintenance needs are captured in the projects below.

<table>
<thead>
<tr>
<th>Projects in Current Funding Stream</th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rehabilitate Seacamp Ranger Station</td>
<td>$596,000</td>
</tr>
<tr>
<td>Rehabilitate Seacamp Restrooms and Showers</td>
<td>$468,000</td>
</tr>
</tbody>
</table>

3. Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
4. Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
5. Cost estimates for projects are dependent on the current phase and size of each project’s scoping and costing process. Planning for larger, more complex projects requires a longer lead time and preconstruction activities may be funded separately. These estimates continue to be refined as scoping and design is completed and the project moves toward execution. Costs are rounded to the nearest thousand.
Infrastructure Inventory
The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **4 Buildings**
- **1 Mile of Trails**
- **0 Campgrounds**
- **0 Miles of Unpaved Roads**
- **0 Waste Water Systems**
- **0 Water Systems**
- **10 All Other Assets**

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.
*All Other assets include maintained landscapes, utility systems, and interpretive media.

Estimated Maintenance Needs
The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

- **Total Need $672 K**
  - **Deferred Maintenance $427 K**
  - **Capital Improvement $27 K**
  - **Other Facility Maintenance $218 K**

There is also a $64 K annual Routine Maintenance requirement in addition to the costs shown above.

**Trails and Buildings** have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

- **$186 K for Trails**
- **$129 K for Buildings**

$357 K for all remaining asset categories
Driven by maintained landscapes ($144 K) and paved roads ($119 K)

**Projects Funding**
Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows an example project in the current funding stream. Not all estimated maintenance needs are captured in the project below.

<table>
<thead>
<tr>
<th>Project in Current Funding Stream</th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Replace Communications Infrastructure</td>
<td>$18,000</td>
</tr>
</tbody>
</table>

---

3. Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
4. Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
5. Cost estimates for projects are dependent on the current phase and size of each project’s scoping and costing process. Planning for larger, more complex projects requires a longer lead time and preconstruction activities may be funded separately. These estimates continue to be refined as scoping and design is completed and the project moves toward execution. Costs are rounded to the nearest thousand.
Infrastructure Inventory
The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **12 Buildings**
- **1 Campground**
- **1 Waste Water System**
- **0 Miles of Trails**
- **0 Miles of Unpaved Roads**
- **27 Housing Units**
- **5 Water Systems**
- **28 All Other Assets**

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.
†All Other assets include maintained landscapes, utility systems, marinas, maintained archeological sites, fortifications, and interpretive media.

Estimated Maintenance Needs
The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

There is also a **$463 K annual Routine Maintenance** requirement in addition to the costs shown above.

- **Total Need $73 M**
  - **Capital Improvement $715 K**
  - **Other Facility Maintenance $9 M**

Building and Housing have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

- **$9 M for Buildings**
- **$2 M for Housing**
- **$62 M for all remaining asset categories**
  Driven by fortifications ($57 M) and marinas ($2 M)

Note: Estimated maintenance needs may not sum exactly to the total need due to rounding.

Project Funding
Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows examples of projects in the current funding stream. Not all estimated maintenance needs are captured in the projects below.

<table>
<thead>
<tr>
<th>Projects in Current Funding Stream</th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Replace Wastewater Treatment Plant</td>
<td>$461,000</td>
</tr>
<tr>
<td>Rehabilitate Crew Quarters</td>
<td>$439,000</td>
</tr>
<tr>
<td>Rehabilitate Loggerhead Kitchen Building</td>
<td>$371,000</td>
</tr>
</tbody>
</table>

---

3. Total need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
4. Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
5. Cost estimates for projects are dependent on the current phase and size of each project’s scoping and costing process. Planning for larger, more complex projects requires a longer lead time and preconstruction activities may be funded separately. These estimates continue to be refined as scoping and design is completed and the project moves toward execution. Costs are rounded to the nearest thousand.
Infrastructure Inventory

The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **155** Buildings
- **187 Miles** of Trails
- **79 Housing Units** *
- **25 Campgrounds**
- **18 Miles** of Unpaved Roads
- **23 Water Systems**
- **21 Waste Water Systems**
- **110 Miles** of Paved Roads
- **136 All Other Assets** †

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.
†All Other assets include trail bridges, maintained landscapes, boundaries, utility systems, dams, constructed waterways, marinas, fortifications, interpretive media, and amphitheaters.

Paved Roads & Structures ‡ and Buildings have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

- **$47 M** for Paved Roads & Structures
- **$28 M** for Buildings
- **$40 M** for all remaining asset categories

Driven by marinas ($14 M) and housing ($6 M)

Estimated Maintenance Needs³

The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

There is also a **$5 M annual Routine Maintenance** requirement in addition to the costs shown above.

Project Funding

Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows examples of projects in the current funding stream. Not all estimated maintenance needs are captured in the projects below.

<table>
<thead>
<tr>
<th>Projects in Current Funding Stream</th>
<th>Estimated Project Cost $</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rehabilitate Three Marina Bulkheads at Flamingo</td>
<td>$9,166,000</td>
</tr>
<tr>
<td>Mill and Resurface Asphalt Pavement, Stations 840+00 to 00+00 Park</td>
<td>$8,092,000</td>
</tr>
<tr>
<td>Rehabilitate Water Distribution System at Long Pine Key Campground and Day-Use Area</td>
<td>$840,000</td>
</tr>
<tr>
<td>Rehabilitate Flamingo Maintenance Boat Shelter</td>
<td>$479,000</td>
</tr>
<tr>
<td>Repair HM-69 Nike Missile Site Buildings</td>
<td>$467,000</td>
</tr>
</tbody>
</table>

³Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.

²Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.

²Cost estimates for projects are dependent on the current phase and size of each project’s scoping and costing process. Planning for larger, more complex projects requires a longer lead time and preconstruction activities may be funded separately. These estimates continue to be refined as scoping and design is completed and the project moves toward execution. Costs are rounded to the nearest thousand.
Infrastructure Inventory

The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **30 Buildings**
- **8 Miles of Trails**
- **1 Housing Unit**
- **1 Campground**
- **2 Miles of Unpaved Roads**
- **7 Water Systems**
- **4 Waste Water Systems**
- **7 Miles of Paved Roads**
- **35 All Other Assets**

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.

†All Other assets include trail bridges, maintained landscapes, utility systems, monuments, fortifications, interpretive media, and amphitheaters.

Estimated Maintenance Needs

The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

There is also a **$474 K annual Routine Maintenance** requirement in addition to the costs shown above.

Paved Roads & Structures and Buildings have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

- **$5 M for Paved Roads & Structures**
- **$2 M for Buildings**
- **$1 M for all remaining asset categories**

Driven by maintained landscapes ($765 K) and interpretive media ($120 K)

Paved Roads & Structures includes paved roadways and paved parking areas.

*Note: Estimated maintenance needs may not sum exactly to the total need due to rounding.*

Project Funding

Fort Donelson National Battlefield does not have any projects in the formulated lists released publicly.

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3. Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
4. Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
5. This includes projects in the following fund sources: Recreation Fee Revenue (FY 2021 Congressional Justification), Repair/Rehabilitation (FY 2021 – 2025), Line Item Construction (FY 2021 – 2025), and Federal Lands Transportation Program (FY 2020 – 2021).
Fort Frederica National Monument Infrastructure Fact Sheet

212 Thousand Annual Visitors

$17 Million in Economic Output

Infrastructure Inventory

The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

16 Buildings

< 1 Mile of Trails

0 Housing Units*

0 Miles of Unpaved Roads

1 Water System

< 1 Mile of Paved Roads

27 All Other Assets†

1 Campground

1 Waste Water System

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.

†All Other assets include trail bridges, maintained landscapes, boundaries, utility systems, marinas, monuments, maintained archeological sites, fortifications, and interpretive media.

Estimated Maintenance Needs

The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

There is also a $258 K annual Routine Maintenance requirement in addition to the costs shown above.

Buildings and Paved Roads & Structures have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

$2 M for Buildings

$242 K for Paved Roads & Structures

$2 M for all remaining asset categories

Driven by interpretive media ($751 K) and marinas ($373 K)

Buildings and Paved Roads & Structures have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

Project Funding

Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows examples of projects in the current funding stream. Not all estimated maintenance needs are captured in the projects below.

<table>
<thead>
<tr>
<th>Projects in Current Funding Stream</th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rehabilitate and Enhance Dock at Fort Frederica</td>
<td>$567,000</td>
</tr>
<tr>
<td>Rehabilitate Visitor Center Interior</td>
<td>$287,000</td>
</tr>
<tr>
<td>Replace Waysides Parkwide</td>
<td>$246,000</td>
</tr>
</tbody>
</table>


3 Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.

4 Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.

5 Cost estimates for projects are dependent on the current phase and size of each project’s scoping and costing process. Planning for larger, more complex projects requires a longer lead time and preconstruction activities may be funded separately. These estimates continue to be refined as scoping and design is completed and the project moves toward execution. Costs are rounded to the nearest thousand.
Infrastructure Inventory

The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **12 Buildings**
- **2 Miles of Trails**
- **1 Campground**
- **7 Waste Water Systems**
- **0 Housing Units**
- **1 Mile of Unpaved Roads**
- **2 Miles of Paved Roads**

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.

†All Other assets include maintained landscapes, utility systems, dams, constructed waterways, maintained archeological sites, fortifications, and interpretive media.

Estimated Maintenance Needs

The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

There is also a **$475 K annual Routine Maintenance requirement in addition to the costs shown above.**

Paved Roads & Structures and Buildings have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

<table>
<thead>
<tr>
<th>Asset Category</th>
<th>Estimated Maintenance Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paved Roads &amp; Structures</td>
<td><strong>$10 M</strong></td>
</tr>
<tr>
<td>Buildings</td>
<td><strong>$4 M</strong></td>
</tr>
<tr>
<td>All Other Assets</td>
<td><strong>$9 M for all remaining asset categories</strong></td>
</tr>
</tbody>
</table>

Paved Roads & Structures includes paved roadways, paved parking areas, and bridges.

Note: Estimated maintenance needs may not sum exactly to the total need due to rounding.

Project Funding

Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows examples of projects in the current funding stream. Not all estimated maintenance needs are captured in the projects below.

<table>
<thead>
<tr>
<th>Projects in Current Funding Stream</th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remove Vascular and Non-Vascular Growth from Fort Pulaski</td>
<td><strong>$171,000</strong></td>
</tr>
<tr>
<td>Install a Fiber Network Upgrade</td>
<td><strong>$45,000</strong></td>
</tr>
</tbody>
</table>

---

3. Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
4. Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
5. Cost estimates for projects are dependent on the current phase and size of each project’s scoping and costing process. Planning for larger, more complex projects requires a longer lead time and preconstruction activities may be funded separately. These estimates continue to be refined as scoping and design is completed and the project moves toward execution. Costs are rounded to the nearest thousand.

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Infrastructure Inventory

The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **11 Buildings**
- **0 Campgrounds**
- **1 Waste Water System**
- **0 Miles of Trails**
- **< 1 Mile of Unpaved Roads**
- **< 1 Mile of Paved Roads**
- **2 Housing Units**
- **1 Water System**
- **30 All Other Assets**

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.

† All Other assets include maintained landscapes, utility systems, marinas, monuments, fortifications, and interpretive media.

Estimated Maintenance Needs

The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

There is also a **$476 K annual Routine Maintenance** requirement in addition to the costs shown above.

<table>
<thead>
<tr>
<th>Buildings and Paved Roads &amp; Structures† have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Buildings</strong></td>
</tr>
<tr>
<td><strong>$4 M for Buildings</strong></td>
</tr>
<tr>
<td><strong>$12 M for all remaining asset categories</strong></td>
</tr>
<tr>
<td>Driven by marinas ($7 M) and fortifications ($3 M)</td>
</tr>
</tbody>
</table>

† Paved Roads & Structures includes paved roadways and paved parking areas.

Note: Estimated maintenance needs may not sum exactly to the total need due to rounding.

Project Funding

Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows examples of projects in the current funding stream. Not all estimated maintenance needs are captured in the projects below.

<table>
<thead>
<tr>
<th>Projects in Current Funding Stream</th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dredge Waterway at Fort Moultrie Boat Dock</td>
<td>$1,241,000</td>
</tr>
<tr>
<td>Repair Exterior Parging on Left Flank Upper Piers at Fort Sumter</td>
<td>$89,000</td>
</tr>
<tr>
<td>Repair Battery Huger Metal Doors</td>
<td>$87,000</td>
</tr>
<tr>
<td>Repair Fort Sumter Scarp Wall and Officer’s Firebox</td>
<td>$19,000</td>
</tr>
</tbody>
</table>

3 Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
4 Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
5 Cost estimates for projects are dependent on the current phase and size of each project’s scoping and costing process. Planning for larger, more complex projects requires a longer lead time and preconstruction activities may be funded separately. These estimates continue to be refined as scoping and design is completed and the project moves toward execution. Costs are rounded to the nearest thousand.
**Infrastructure Inventory**

The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **1 Building**
- **0 Campgrounds**
- **0 Waste Water Systems**
- **0 Miles of Trails**
- **0 Miles of Unpaved Roads**
- **0 Housing Units**
- **0 Water Systems**
- **0 Miles of Paved Roads**
- **1 All Other Asset**

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.

†All Other assets include maintained landscapes.

**Estimated Maintenance Needs**

The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

- **Total Need $527 K**
- **Deferred Maintenance $527 K**

There is also a $6 K annual Routine Maintenance requirement in addition to the costs shown above.

**Buildings** and **Paved Roads & Structures** have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

- **$400 K for Buildings**
- **$27 K for Paved Roads & Structures**
- **$100 K for all remaining asset categories**

Driven by maintained landscapes ($100 K)

1Paved Roads & Structures includes paved parking areas.

Note: Estimated maintenance needs may not sum exactly to the total need due to rounding.

**Project Funding**

Freedom Riders National Monument does not have any projects in the formulated lists released publicly.

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3 Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
4 Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
5 This includes projects in the following fund sources: Recreation Fee Revenue (FY 2021 Congressional Justification), Repair/Rehabilitation (FY 2021 – 2025), Line Item Construction (FY 2021 – 2025), and Federal Lands Transportation Program (FY 2020 – 2021).
Infrastructure Inventory
The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **423 Buildings**
- **733 Miles of Trails**
- **70 Housing Units** *
- **116 Campgrounds**
- **143 Miles of Unpaved Roads**
- **26 Water Systems**
- **26 Waste Water Systems**
- **186 Miles of Paved Roads**

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.

All Other assets include trail bridges, maintained landscapes, utility systems, dams, constructed waterways, monuments, interpretive media, and amphitheaters.

Estimated Maintenance Needs
The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

There is also a $17 M annual Routine Maintenance requirement in addition to the costs shown above.

Paved Roads & Structures and Buildings have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

<table>
<thead>
<tr>
<th>Paved Roads &amp; Structures</th>
<th>Buildings</th>
<th>All Other Assets</th>
</tr>
</thead>
<tbody>
<tr>
<td>$222 M</td>
<td>$19 M</td>
<td>$52 M</td>
</tr>
</tbody>
</table>

Paved Roads & Structures includes paved roadways, paved parking areas, bridges, and tunnels.

Note: Estimated maintenance needs may not sum exactly to the total need due to rounding.

Project Funding
Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows examples of projects in the current funding stream. Not all estimated maintenance needs are captured in the projects below.

<table>
<thead>
<tr>
<th>Projects in Current Funding Stream</th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foothills Parkway Rehabilitation (MP 55-72)</td>
<td>$25,500,000</td>
</tr>
<tr>
<td>Rehabilitate and Expand Sugarlands Headquarters</td>
<td>$14,433,000</td>
</tr>
<tr>
<td>Rehabilitate Sugarlands Water and Wastewater Systems</td>
<td>$8,614,000</td>
</tr>
<tr>
<td>Rehabilitate Laurel Falls Trail</td>
<td>$4,917,000</td>
</tr>
<tr>
<td>Pavement Preservation of Foothills Parkway-West (MP 55 to 65)</td>
<td>$3,290,000</td>
</tr>
</tbody>
</table>

3. Total need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
4. Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
5. Cost estimates for projects are dependent on the current phase and size of each project’s scoping and costing process. Planning for larger, more complex projects requires a longer lead time and preconstruction activities may be funded separately. These estimates continue to be refined as scoping and design is completed and the project moves toward execution. Costs are rounded to the nearest thousand.
Infrastructure Inventory
The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **31 Buildings**
- **3 Miles of Trails**
- **0 Housing Units**
- **< 1 Mile of Unpaved Roads**
- **1 Water System**
- **3 Miles of Paved Roads**
- **49 All Other Assets†

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.

†All Other assets include trail bridges, maintained landscapes, boundaries, utility systems, monuments, interpretive media, and amphitheaters.

Estimated Maintenance Needs
The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

- **Total Need $9 M**
- **Deferred Maintenance**
- **Capital Improvement $34 K**
- **Other Facility Maintenance $2 M**

There is also a $415 K annual Routine Maintenance requirement in addition to the costs shown above.

- **Buildings**
- **Paved Roads & Structures**† have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

<table>
<thead>
<tr>
<th>Buildings</th>
<th>Paved Roads &amp; Structures</th>
<th>All Remaining Asset Categories</th>
</tr>
</thead>
<tbody>
<tr>
<td>$6 M</td>
<td>$2 M</td>
<td>$2 M</td>
</tr>
</tbody>
</table>

†Paved Roads & Structures includes paved roadways and paved parking areas.

Note: Estimated maintenance needs may not sum exactly to the total need due to rounding.

Project Funding
Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows examples of projects in the current funding stream. Not all estimated maintenance needs are captured in the projects below.

<table>
<thead>
<tr>
<th>Projects in Current Funding Stream</th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Replace Tour Road Gates</td>
<td>$160,000</td>
</tr>
<tr>
<td>Repair Brick Walkway Around General Greene Monument</td>
<td>$151,000</td>
</tr>
<tr>
<td>Preserve Battlefield Monuments Priority 1</td>
<td>$63,000</td>
</tr>
<tr>
<td>Repair Nathanael Greene Library Walkway</td>
<td>$49,000</td>
</tr>
</tbody>
</table>

---

3. Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
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Infrastructure Inventory

The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **121 Buildings**
- **33 Miles of Trails**
- **< 1 Mile of Unpaved Roads**
- **21 Housing Units**
- **10 Campgrounds**
- **7 Waste Water Systems**
- **28 Miles of Paved Roads**
- **10 Water Systems**
- **209 All Other Assets**

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.

†All Other assets include maintained landscapes, boundaries, utility systems, marinas, maintained archeological sites, fortifications, towers, interpretive media, and amphitheaters.

Estimated Maintenance Needs

The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

There is also a $3 M annual Routine Maintenance requirement in addition to the costs shown above.

Paved Roads & Structures and Buildings have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

<table>
<thead>
<tr>
<th>Asset Category</th>
<th>Estimated Maintenance Need</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paved Roads &amp; Structures</td>
<td>$22 M</td>
</tr>
<tr>
<td>Buildings</td>
<td>$5 M</td>
</tr>
<tr>
<td>All other assets</td>
<td>$54 M</td>
</tr>
</tbody>
</table>

Paved Roads & Structures includes paved roadways, paved parking areas, and bridges.

Note: Estimated maintenance needs may not sum exactly to the total need due to rounding.

Project Funding

Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows examples of projects in the current funding stream. Not all estimated maintenance needs are captured in the projects below.

<table>
<thead>
<tr>
<th>Projects in Current Funding Stream</th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Install a 2-inch Water Mainline at Fort Pickens Water System</td>
<td>$1,616,000</td>
</tr>
<tr>
<td>Repairs of Boardwalks, Decks and Piers Park Wide</td>
<td>$811,000</td>
</tr>
<tr>
<td>Install Water Membrane on Fort Pickens Northeast Bastion Parapet</td>
<td>$448,000</td>
</tr>
<tr>
<td>Replace Perdido Key Boardwalks</td>
<td>$354,000</td>
</tr>
<tr>
<td>Replace Portland Cement in Mortar Joints with Natural Cement on Fort Pickens Mine Storeroom</td>
<td>$245,000</td>
</tr>
</tbody>
</table>

3 Total need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
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**Infrastructure Inventory**

The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **18 Buildings**
- **5 Miles of Trails**
- **10 Miles of Unpaved Roads**
- **3 Housing Units**
- **2 Waste Water Systems**
- **1 Campground**
- **4 Miles of Paved Roads**
- **28 All Other Assets**

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**Estimated Maintenance Needs**

The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

- **Deferred Maintenance $5 M**
- **Capital Improvement $428 K**
- **Other Facility Maintenance $1 M**

There is also a $336 K annual Routine Maintenance requirement in addition to the costs shown above.

---

**Paved Roads & Structures** and **Buildings** have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

<table>
<thead>
<tr>
<th>$3 M for Paved Roads &amp; Structures</th>
<th>$1 M for Buildings</th>
<th>$1 M for all remaining asset categories</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driven by interpretive media ($885 K) and trails ($268 K)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Project Funding**

Horseshoe Bend National Military Park does not have any projects in the formulated lists released publicly.

---

3. Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
4. Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
5. This includes projects in the following fund sources: Recreation Fee Revenue (FY 2021 Congressional Justification), Repair/Rehabilitation (FY 2021 – 2025), Line Item Construction (FY 2021 – 2025), and Federal Lands Transportation Program (FY 2020 – 2021).
Infrastructure Inventory

The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **24 Buildings**
- **9 Miles of Trails**
- **0 Housing Units**
- **< 1 Mile of Unpaved Roads**
- **1 Water System**
- **5 Miles of Paved Roads**
- **94 All Other Assets**
- **5 Waste Water Systems**
- **0 Campgrounds**
- **9 Miles of Trails**

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.
† All Other assets include trail bridges, maintained landscapes, utility systems, constructed waterways, marinas, monuments, and interpretive media.

Estimated Maintenance Needs

The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

- **Deferred Maintenance $6 M**
- **Capital Improvement $631 K**
- **Other Facility Maintenance $2 M**
- **Total Need $9 M**

There is also a **$1 M annual Routine Maintenance** requirement in addition to the costs shown above.

Paved Roads & Structures and Buildings have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

<table>
<thead>
<tr>
<th>Paved Roads &amp; Structures</th>
<th>Buildings</th>
<th>All Remaining Asset Categories</th>
</tr>
</thead>
<tbody>
<tr>
<td>$6 M</td>
<td>$2 M</td>
<td>$1 M</td>
</tr>
</tbody>
</table>

Paved Roads & Structures includes paved roadways, paved parking areas, and bridges.

Note: Estimated maintenance needs may not sum exactly to the total need due to rounding.

Project Funding

Jean Lafitte National Historical Park and Preserve does not have any projects in the formulated lists released publicly.

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3. Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
4. Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
5. This includes projects in the following fund sources: Recreation Fee Revenue (FY 2021 Congressional Justification), Repair/Rehabilitation (FY 2021 – 2025), Line Item Construction (FY 2021 – 2025), and Federal Lands Transportation Program (FY 2020 – 2021).
Infrastructure Inventory
The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **20 Buildings**
- **< 1 Mile of Trails**
- **0 Housing Units***
- **0 Miles of Unpaved Roads**
- **2 Water Systems**
- **0 Miles of Paved Roads**
- **25 All Other Assets†**
- **1 Waste Water System**
- **0 Campgrounds**

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.
†All Other assets include maintained landscapes, utility systems, towers, and interpretive media.

Buildings and Paved Roads & Structures† have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

<table>
<thead>
<tr>
<th>Buildings</th>
<th>Paved Roads &amp; Structures</th>
<th>All Remaining Asset Categories</th>
</tr>
</thead>
<tbody>
<tr>
<td>$5 M</td>
<td>$536 K</td>
<td>$4 M</td>
</tr>
</tbody>
</table>

†Paved Roads & Structures includes paved parking areas.
Note: Estimated maintenance needs may not sum exactly to the total need due to rounding.

Estimated Maintenance Needs³
The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

There is also a **$190 K annual Routine Maintenance⁴** requirement in addition to the costs shown above.

Project Funding
Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows examples of projects in the current funding stream. Not all estimated maintenance needs are captured in the projects below.

<table>
<thead>
<tr>
<th>Projects in Current Funding Stream</th>
<th>Estimated Project Cost⁵</th>
</tr>
</thead>
<tbody>
<tr>
<td>Replace Deteriorated Nonhistoric Windows at Plains High School Visitor Center</td>
<td>$280,000</td>
</tr>
<tr>
<td>Rehabilitation of the Historic Plains Depot</td>
<td>$228,000</td>
</tr>
<tr>
<td>Remove Mold and Replace Insulation in Crawl Space and Attic at Plains High School</td>
<td>$107,000</td>
</tr>
<tr>
<td>Abatement of Lead Paint on Windows on Historical Agriculture/Maintenance Building</td>
<td>$101,000</td>
</tr>
<tr>
<td>Install Plains Train Depot Fire Suppression System</td>
<td>$89,000</td>
</tr>
</tbody>
</table>

³Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
⁴Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
⁵Cost estimates for projects are dependent on the current phase and size of each project’s scoping and costing process. Planning for larger, more complex projects requires a longer lead time and preconstruction activities may be funded separately. These estimates continue to be refined as scoping and design is completed and the project moves toward execution. Costs are rounded to the nearest thousand.
The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

**Infrastructure Inventory**

10 Buildings

17 Miles of Trails

1 Housing Unit*

0 Campgrounds

6 Miles of Unpaved Roads

0 Water Systems

1 Waste Water System

9 Miles of Paved Roads

76 All Other Assets†

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*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.

†All Other assets include trail bridges, maintained landscapes, boundaries, utility systems, monuments, fortifications, and interpretive media.

**Estimated Maintenance Needs**

The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

There is also a $778 K annual Routine Maintenance requirement in addition to the costs shown above.

**Paved Roads & Structures** and Trails have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

<table>
<thead>
<tr>
<th>Estimated Project Cost</th>
<th>Projects in Current Funding Stream</th>
</tr>
</thead>
<tbody>
<tr>
<td>$10 M for Paved Roads &amp; Structures</td>
<td>Construct Cheatham Hill Bicycle/Pedestrian Trail-Phase 1</td>
</tr>
<tr>
<td>$539 K for Trails</td>
<td>Replace Bridge at Eastern Crossing of John Ward Creek on South Loop Trail</td>
</tr>
<tr>
<td>$3 M for all remaining asset categories</td>
<td></td>
</tr>
</tbody>
</table>

Driven by maintained landscapes ($1 M) and fortifications ($591 K)

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1 Paved Roads & Structures includes paved roadways and paved parking areas.

Note: Estimated maintenance needs may not sum exactly to the total need due to rounding.

**Project Funding**

Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows examples of projects in the current funding stream. Not all estimated maintenance needs are captured in the projects below.


3 Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.

4 Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.

5 Cost estimates for projects are dependent on the current phase and size of each project’s scoping and costing process. Planning for larger, more complex projects requires a longer lead time and preconstruction activities may be funded separately. These estimates continue to be refined as scoping and design is completed and the project moves toward execution. Costs are rounded to the nearest thousand.
Infrastructure Inventory

The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **19 Buildings**
- **0 Campgrounds**
- **2 Waste Water Systems**
- **11 Miles of Trails**
- **11 Miles of Unpaved Roads**
- **3 Miles of Paved Roads**
- **3 Housing Units**
- **1 Water System**
- **24 All Other Assets**

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.*

†All Other assets include maintained landscapes, boundaries, utility systems, monuments, maintained archeological sites, interpretive media, and amphitheaters.

**Buildings and Paved Roads & Structures** have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

- **$2 M for Buildings**
- **$2 M for Paved Roads & Structures**
- **$3 M for all remaining asset categories**
  Driven by amphitheaters ($694 K) and trails ($419 K)

†Paved Roads & Structures includes paved roadways and paved parking areas.

Note: Estimated maintenance needs may not sum exactly to the total need due to rounding.

Estimated Maintenance Needs

The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

- **Total Need $7 M**
  - Capital Improvement $1 M
  - Defendant Maintenance $5 M
  - Other Facility Maintenance $301 K

There is also a **$488 K annual Routine Maintenance** requirement in addition to the costs shown above.

Project Funding

Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows examples of projects in the current funding stream. Not all estimated maintenance needs are captured in the projects below.

<table>
<thead>
<tr>
<th>Projects in Current Funding Stream</th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Repoint and Repair Stone Walkways at Library/Conference Building</td>
<td>$284,000</td>
</tr>
<tr>
<td>Resurface Visitor Center Walkways</td>
<td>$249,000</td>
</tr>
<tr>
<td>Replace Water System Valves</td>
<td>$233,000</td>
</tr>
<tr>
<td>Repair Headquarters Stone Walkways, Stairs and Retaining Walls</td>
<td>$231,000</td>
</tr>
<tr>
<td>Rehab Wastewater Storage Building For Maintenance Storage</td>
<td>$65,000</td>
</tr>
</tbody>
</table>

3 Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
4 Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
5 Cost estimates for projects are dependent on the current phase and size of each project’s scoping and costing process. Planning for larger, more complex projects requires a longer lead time and preconstruction activities may be funded separately. These estimates continue to be refined as scoping and design is completed and the project moves toward execution. Costs are rounded to the nearest thousand.
Infrastructure Inventory
The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **12 Buildings**
- **12 Miles of Trails**
- **1 Campground**
- **26 Miles of Unpaved Roads**
- **2 Waste Water Systems**
- **26 Miles of Paved Roads**
- **0 Housing Units***
- **2 Water Systems**
- **37 All Other Assets†**

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.
†All Other assets include maintained landscapes, boundaries, utility systems, and interpretive media.

Estimated Maintenance Needs
The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

There is also a **$488 K annual Routine Maintenance** requirement in addition to the costs shown above.

Unpaved Roads and Paved Roads & Structures* have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

- **$2 M for Unpaved Roads**
- **$506 K for Paved Roads & Structures**
- **$1 M for all remaining asset categories**

Driven by maintained landscapes ($623 K) and buildings ($212 K)

*Paved Roads & Structures includes paved roadways and paved parking areas.
Note: Estimated maintenance needs may not sum exactly to the total need due to rounding.

Project Funding
Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows examples of projects in the current funding stream. Not all estimated maintenance needs are captured in the projects below.

<table>
<thead>
<tr>
<th>Projects in Current Funding Stream</th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Restore Natural Glade Habitat at Lynn Overlook</td>
<td>$152,000</td>
</tr>
<tr>
<td>Replace Comfort Station for Accessibility Improvements</td>
<td>$110,000</td>
</tr>
</tbody>
</table>

3 Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
4 Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
5 Cost estimates for projects are dependent on the current phase and size of each project’s scoping and costing process. Planning for larger, more complex projects requires a longer lead time and preconstruction activities may be funded separately. These estimates continue to be refined as scoping and design is completed and the project moves toward execution. Costs are rounded to the nearest thousand.
Infrastructure Inventory
The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **141 Buildings**
- **135 Miles of Trails**
- **21 Miles of Unpaved Roads**
- **16 Housing Units***
- **4 Water Systems**
- **48 Miles of Paved Roads**
- **166 All Other Assets†**
- **19 Campgrounds**
- **8 Waste Water Systems**

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.
†All Other assets include trail bridges, maintained landscapes, boundaries, utility systems, marinas, monuments, maintained archeological sites, interpretive media, and amphitheaters.

Estimated Maintenance Needs
The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

- **Total Need $111 M**
  - Deferred Maintenance $92 M
  - Capital Improvement $9 M
  - Other Facility Maintenance $9 M
  - Estimated Maintenance Needs $3 M annual Routine Maintenance requirement in addition to the costs shown above.

Trails and Paved Roads & Structures* have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

<table>
<thead>
<tr>
<th>Asset Category</th>
<th>Estimated Maintenance Needs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trails</td>
<td>$39 M</td>
</tr>
<tr>
<td>Paved Roads &amp; Structures†</td>
<td>$32 M</td>
</tr>
<tr>
<td>All Remaining Asset Categories</td>
<td>$40 M</td>
</tr>
</tbody>
</table>

*Paved Roads & Structures includes paved roadways, paved parking areas, and bridges.
†Paved Roads & Structures includes paved roadways, paved parking areas, and bridges.

Note: Estimated maintenance needs may not sum exactly to the total need due to rounding.

Project Funding
Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows examples of projects in the current funding stream. Not all estimated maintenance needs are captured in the projects below.

<table>
<thead>
<tr>
<th>Projects in Current Funding Stream</th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rehabilitate Cave Trails: From the New Entrance to Frozen Niagara</td>
<td>$9,474,000</td>
</tr>
<tr>
<td>Rehabilitate Backcountry Trails</td>
<td>$992,000</td>
</tr>
<tr>
<td>Rehabilitate Deteriorating Hotel Landscaping</td>
<td>$946,000</td>
</tr>
<tr>
<td>Upgrade The Outlying Cave Security System At Mammoth Cave National Park</td>
<td>$938,000</td>
</tr>
<tr>
<td>Replace Substandard Guardrails At Turnhole Bend</td>
<td>$875,000</td>
</tr>
</tbody>
</table>

3 Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
4 Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
5 Cost estimates for projects are dependent on the current phase and size of each project’s scoping and costing process. Planning for larger, more complex projects requires a longer lead time and preconstruction activities may be funded separately. These estimates continue to be refined as scoping and design is completed and the project moves toward execution. Costs are rounded to the nearest thousand.
Infrastructure Inventory
The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- 38 Buildings
- 0 Campgrounds
- 0 Waste Water Systems
- 0 Miles of Trails
- 0 Miles of Unpaved Roads
- 97 All Other Assets

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.
†All Other assets include maintained landscapes, utility systems, monuments, interpretive media, and amphitheaters.

Estimated Maintenance Needs
The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

There is also a $291 K annual Routine Maintenance requirement in addition to the costs shown above.

Buildings and Paved Roads & Structures have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

- $18 M for Buildings
- $1 M for Paved Roads & Structures
- $1 M for all remaining asset categories

Paved Roads & Structures includes paved parking areas.
Note: Estimated maintenance needs may not sum exactly to the total need due to rounding.

Project Funding
Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows examples of projects in the current funding stream. Not all estimated maintenance needs are captured in the projects below.

<table>
<thead>
<tr>
<th>Projects in Current Funding Stream</th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Replace Ebenezer Baptist Church Lifts</td>
<td>$501,000</td>
</tr>
<tr>
<td>Rehabilitate Five Visitor Center Restrooms</td>
<td>$498,000</td>
</tr>
<tr>
<td>Rebuild Stone Retaining Wall and Replace French Drain at 540-550 Auburn Ave.</td>
<td>$283,000</td>
</tr>
<tr>
<td>Install Fire Systems in 497 and 503 Auburn Avenue</td>
<td>$210,000</td>
</tr>
<tr>
<td>Replace Fire Station Elevator</td>
<td>$147,000</td>
</tr>
</tbody>
</table>

3 Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
4 Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
5 Cost estimates for projects are dependent on the current phase and size of each project’s scoping and costing process. Planning for larger, more complex projects requires a longer lead time and preconstruction activities may be funded separately. These estimates continue to be refined as scoping and design is completed and the project moves toward execution. Costs are rounded to the nearest thousand.
Infrastructre Inventory
The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **10 Buildings**
- **2 Miles of Trails**
- **< 1 Mile of Unpaved Roads**
- **5 Waste Water Systems**
- **< 1 Mile of Paved Roads**
- **0 Housing Units**
- **0 Campgrounds**
- **24 All Other Assets**

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.

†All Other assets include trail bridges, maintained landscapes, boundaries, utility systems, monuments, interpretive media, and amphitheaters.

Estimated Maintenance Needs
The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

There is also a **$1 M annual Routine Maintenance** requirement in addition to the costs shown above.

Paved Roads & Structures and Buildings have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

<table>
<thead>
<tr>
<th>Paved Roads &amp; Structures</th>
<th>Buildings</th>
<th>$1 M for all remaining asset categories</th>
</tr>
</thead>
<tbody>
<tr>
<td>$2 M</td>
<td>$2 M</td>
<td>Driven by trails ($433 K) and maintained landscapes ($152 K)</td>
</tr>
</tbody>
</table>

Paved Roads & Structures includes paved roadways and paved parking areas.

Note: Estimated maintenance needs may not sum exactly to the total need due to rounding.

Project Funding
Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows examples of projects in the current funding stream. Not all estimated maintenance needs are captured in the projects below.

<table>
<thead>
<tr>
<th>Projects in Current Funding Stream</th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mitigate rusting exposed footers at Patriots Hall</td>
<td>$94,000</td>
</tr>
<tr>
<td>Replacement of Front Gate &amp; Repointing of Entry Way Brick Facades</td>
<td>$83,000</td>
</tr>
</tbody>
</table>

**Notes:**
3. Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
4. Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
5. Cost estimates for projects are dependent on the current phase and size of each project’s scoping and costing process. Planning for larger, more complex projects requires a longer lead time and preconstruction activities may be funded separately. These estimates continue to be refined as scoping and design is completed and the project moves toward execution. Costs are rounded to the nearest thousand.
Infrastructure Inventory

The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **28 Buildings**
- **0 Campgrounds**
- **0 Waste Water Systems**
- **0 Miles of Trails**
- **< 1 Mile of Unpaved Roads**
- **0 Miles of Paved Roads**
- **0 Housing Units**
- **24 All Other Assets**

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.

† All Other assets include maintained landscapes, boundaries, utility systems, dams, monuments, and interpretive media.

Estimated Maintenance Needs

The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

There is also a $388 K annual Routine Maintenance requirement in addition to the costs shown above.

Buildings and Paved Roads & Structures have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

- **$4 M for Buildings**
- **$865 K for Paved Roads & Structures**
- **$1 M for all remaining asset categories**

Driven by maintained landscapes ($891 K) and interpretive media ($432 K)

Project Funding

Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows examples of projects in the current funding stream. Not all estimated maintenance needs are captured in the projects below.

<table>
<thead>
<tr>
<th>Projects in Current Funding Stream</th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Replace Multiple Wood Shingle Roofs</td>
<td>$341,000</td>
</tr>
<tr>
<td>Level and Overlay Asphalt in Maintenance Parking Lot</td>
<td>$125,000</td>
</tr>
<tr>
<td>Install Sietenroth House Alarm and HVAC Systems</td>
<td>$104,000</td>
</tr>
<tr>
<td>Replace Melrose Estate Boundary Perimeter Fence</td>
<td>$58,000</td>
</tr>
<tr>
<td>Reestablish Drainage at Melrose Estate</td>
<td>$39,000</td>
</tr>
</tbody>
</table>

3 Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
4 Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
5 Cost estimates for projects are dependent on the current phase and size of each project’s scoping and costing process. Planning for larger, more complex projects requires a longer lead time and preconstruction activities may be funded separately. These estimates continue to be refined as scoping and design is completed and the project moves toward execution. Costs are rounded to the nearest thousand.
Infrastructure Inventory

The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **181** Buildings
- **95** Miles of Trails
- **0** Housing Units*
- **3** Campgrounds
- **1 Mile** of Unpaved Roads
- **19** Water Systems
- **25** Waste Water Systems
- **502** Miles of Paved Roads
- **19** Water Systems
- **19** Heating Systems

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.

†All Other assets include maintained landscapes, utility systems, dams, marinas, monuments, maintained archeological sites, interpretive media, and amphitheaters.

Estimated Maintenance Needs

The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

There is also a **$14 M annual Routine Maintenance** requirement in addition to the costs shown above.

Paved Roads & Structures and Trails have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

- **$350 M** for Paved Roads & Structures
- **$12 M** for Trails
- **$16 M** for all remaining asset categories

Driven by maintained landscapes ($9 M) and buildings ($4 M)

Project Funding

Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows examples of projects in the current funding stream. Not all estimated maintenance needs are captured in the projects below.

<table>
<thead>
<tr>
<th>Projects in Current Funding Stream</th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>John Coffe Memorial Bridge Structural Study, Painting Rehab, and Replacement</td>
<td>$150,000,000</td>
</tr>
<tr>
<td>Natchez Trace Multi-Use Trail Construction</td>
<td>$111,000,000</td>
</tr>
<tr>
<td>Replace Trail Structures from Milepost 127.5-130.8 on the Yockanookany Section of National Scenic Trail</td>
<td>$852,000</td>
</tr>
<tr>
<td>Repair Trail Bridges and Boardwalks along the Blackland Prairie National Scenic Trail</td>
<td>$423,000</td>
</tr>
<tr>
<td>Rehabilitate Tupelo Sewer System</td>
<td>$344,000</td>
</tr>
</tbody>
</table>

1 Natchez Trace National Scenic Trail and Tupelo National Battlefield are included as they are co-managed with Natchez Trace Parkway.


4 Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.

5 Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.

6 Cost estimates for projects are dependent on the current phase and size of each project’s scoping and costing process. Planning for larger, more complex projects requires a longer lead time and preconstruction activities may be funded separately. These estimates continue to be refined as scoping and design is completed and the project moves toward execution. Costs are rounded to the nearest thousand.

EXPERIENCE YOUR AMERICA™
The National Park Service cares for special places saved by the American people so that all may experience our heritage.
Infrastructure Inventory
The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **5 Buildings**
- **< 1 Mile of Trails**
- **0 Housing Units***
- **0 Campgrounds**
- **0 Miles of Unpaved Roads**
- **1 Water System**
- **0 Waste Water Systems**
- **0 Miles of Paved Roads**
- **8 All Other Assets†**

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.
†All Other assets include maintained landscapes, utility systems, and interpretive media.

Estimated Maintenance Needs
The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

- **Total Need**
  - **$1 M** deferred maintenance
  - **$1 M** capital improvement
  - **$36 K annual Routine Maintenance**

There is also a $36 K annual Routine Maintenance requirement in addition to the costs shown above.

- **Buildings** have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

<table>
<thead>
<tr>
<th>Buildings</th>
<th>$1 M for Buildings</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Other Assets</td>
<td>$31 K for all remaining asset categories</td>
</tr>
</tbody>
</table>

Driven by maintained landscapes ($31 K)

Note: Estimated maintenance needs may not sum exactly to the total need due to rounding.

Project Funding
New Orleans Jazz National Historical Park does not have any projects in the formulated lists released publicly.⁵

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3 Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
4 Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
5 This includes projects in the following fund sources: Recreation Fee Revenue (FY 2021 Congressional Justification), Repair/Rehabilitation (FY 2021 – 2025), Line Item Construction (FY 2021 – 2025), and Federal Lands Transportation Program (FY 2020 – 2021).
Infrastructure Inventory

The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **Buildings**: 9
- **Trails**: 6 Miles
- **Campgrounds**: 0
- **Waste Water Systems**: 3
- **Water System**: 1
- **Housing Units**: 0

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.

†All Other assets include maintained landscapes, utility systems, dams, marinas, maintained archeological sites, fortifications, and interpretive media.

Estimated Maintenance Needs

The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

![Chart showing estimated maintenance needs]

- **Deferred Maintenance**: $3 M
- **Capital Improvement**: $401 K
- **Other Facility Maintenance**: $425 K
- **Total Need**: $3 M

There is also a $251 K annual Routine Maintenance requirement in addition to the costs shown above.

Buildings and Trails have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

- **$1 M for Buildings**
- **$881 K for Trails**
- **$2 M for all remaining asset categories**

Driven by interpretive media ($411 K) and dams ($381 K)

*Note: Estimated maintenance needs may not sum exactly to the total need due to rounding.*

Project Funding

Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows examples of projects in the current funding stream. Not all estimated maintenance needs are captured in the projects below.

<table>
<thead>
<tr>
<th>Projects in Current Funding Stream</th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Install Emergency Generator for Park Buildings</td>
<td>$474,000</td>
</tr>
<tr>
<td>Repair Star Fort Pond Dam to Mitigate Structural Safety Concerns</td>
<td>$455,000</td>
</tr>
<tr>
<td>Rehabilitate Logan Log Cabin</td>
<td>$275,000</td>
</tr>
<tr>
<td>Rehabilitate Administration Building</td>
<td>$233,000</td>
</tr>
<tr>
<td>Correct Drainage Issues at Visitor Center</td>
<td>$106,000</td>
</tr>
</tbody>
</table>

3 Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
4 Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
5 Cost estimates for projects are dependent on the current phase and size of each project’s scoping and costing process. Planning for larger, more complex projects requires a longer lead time and preconstruction activities may be funded separately. These estimates continue to be refined as scoping and design is completed and the project moves toward execution. Costs are rounded to the nearest thousand.
Infrastructure Inventory

The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- 6 Buildings
- 1 Campground
- 0 Waste Water Systems
- 5 Miles of Trails
- < 1 Mile of Unpaved Roads
- < 1 Mile of Paved Roads
- 0 Housing Units*
- 0 Water Systems
- 10 All Other Assets†

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.
†All Other assets include trail bridges, maintained landscapes, utility systems, and interpretive media.

Estimated Maintenance Needs³

The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

There is also a $86 K annual Routine Maintenance⁴ requirement in addition to the costs shown above.

Paved Roads & Structures¹ and Trails have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

<table>
<thead>
<tr>
<th>Category</th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paved Roads &amp; Structures</td>
<td>$450 K</td>
</tr>
<tr>
<td>Trails</td>
<td>$315 K</td>
</tr>
<tr>
<td>All remaining asset categories</td>
<td>$346 K</td>
</tr>
</tbody>
</table>

¹Paved Roads & Structures includes paved roadways, paved parking areas, and bridges.
Note: Estimated maintenance needs may not sum exactly to the total need due to rounding.

Project Funding

Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows examples of projects in the current funding stream. Not all estimated maintenance needs are captured in the projects below.

<table>
<thead>
<tr>
<th>Projects in Current Funding Stream</th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boundary Survey of Top Priority Tracts</td>
<td>$173,000</td>
</tr>
<tr>
<td>Replace Porta-John with Accessible Vault Toilet at Nemo Picnic Area</td>
<td>$62,000</td>
</tr>
<tr>
<td>Replace Porta-John with Accessible Vault Toilet at Lilly Bridge</td>
<td>$56,000</td>
</tr>
</tbody>
</table>

³ Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
⁴ Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
⁵ Cost estimates for projects are dependent on the current phase and size of each project’s scoping and costing process. Planning for larger, more complex projects requires a longer lead time and preconstruction activities may be funded separately. These estimates continue to be refined as scoping and design is completed and the project moves toward execution. Costs are rounded to the nearest thousand.
Infrastructure Inventory

The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **5 Buildings**
- **6 Miles of Trails**
- **2 Housing Units**
- **1 Campground**
- **< 1 Mile of Unpaved Roads**
- **1 Water System**
- **3 Miles of Paved Roads**
- **38 All Other Assets**

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.
†All Other assets include trail bridges, maintained landscapes, boundaries, utility systems, maintained archeological sites, fortifications, and interpretive media.

Paved Roads & Structures and Buildings have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

<table>
<thead>
<tr>
<th>Paved Roads &amp; Structures</th>
<th>Buildings</th>
<th>All Remaining Asset Categories</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>$4 M</strong></td>
<td><strong>$3 M</strong></td>
<td><strong>$1 M</strong></td>
</tr>
</tbody>
</table>

Paved Roads & Structures includes paved roadways and paved parking areas.

Note: Estimated maintenance needs may not sum exactly to the total need due to rounding.

Estimated Maintenance Needs

The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

There is also a **$365 K annual Routine Maintenance** requirement in addition to the costs shown above.

Project Funding

Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows examples of projects in the current funding stream. Not all estimated maintenance needs are captured in the projects below.

<table>
<thead>
<tr>
<th>Projects in Current Funding Stream</th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upgrade Fire and Intrusion Alarm Systems</td>
<td>$264,000</td>
</tr>
<tr>
<td>Replace Culvert Pipe at Funeral Mound Parking Lot</td>
<td>$145,000</td>
</tr>
<tr>
<td>Repair Water Damaged Visitor Center Interiors</td>
<td>$85,000</td>
</tr>
</tbody>
</table>

3. Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
4. Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
5. Cost estimates for projects are dependent on the current phase and size of each project’s scoping and costing process. Planning for larger, more complex projects requires a longer lead time and preconstruction activities may be funded separately. These estimates continue to be refined as scoping and design is completed and the project moves toward execution. Costs are rounded to the nearest thousand.
Infrastructure Inventory
The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

<table>
<thead>
<tr>
<th>Asset Category</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Buildings</td>
<td>4</td>
</tr>
<tr>
<td>Campgrounds</td>
<td>0</td>
</tr>
<tr>
<td>Waste Water Systems</td>
<td>0</td>
</tr>
<tr>
<td>Miles of Trails</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>Miles of Paved Roads</td>
<td>0</td>
</tr>
<tr>
<td>Housing Units*</td>
<td>0</td>
</tr>
<tr>
<td>Water Systems</td>
<td>0</td>
</tr>
<tr>
<td>All Other Assets†</td>
<td>2</td>
</tr>
</tbody>
</table>

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.
†All Other assets include maintained landscapes.

Estimated Maintenance Needs
The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

There is also a $8 K annual Routine Maintenance requirement in addition to the costs shown above.

Buildings have the highest estimated maintenance needs by asset category at the park. The figure below does not include the cost of Routine Maintenance.

$35 K for Buildings

Note: Estimated maintenance needs may not sum exactly to the total need due to rounding.

Project Funding
Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows an example project in the current funding stream. Not all estimated maintenance needs are captured in the project below.

<table>
<thead>
<tr>
<th>Project in Current Funding Stream</th>
<th>Estimated Project Cost$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Repair Old Beaufort Firehouse Interior</td>
<td>$141,000</td>
</tr>
</tbody>
</table>

---

3 Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
4 Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
5 Cost estimates for projects are dependent on the current phase and size of each project’s scoping and costing process. Planning for larger, more complex projects requires a longer lead time and preconstruction activities may be funded separately. These estimates continue to be refined as scoping and design is completed and the project moves toward execution. Costs are rounded to the nearest thousand.
Russell Cave National Monument

Infrastructure Fact Sheet

17 Thousand Annual Visitors

$1.2 Million in Economic Output

Infrastructure Inventory

The figures below show the park's real property inventory by asset category as of the end of FY 2018.

<table>
<thead>
<tr>
<th>Buildings</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Campgrounds</td>
<td>0</td>
</tr>
<tr>
<td>Water Systems</td>
<td>3</td>
</tr>
<tr>
<td>Trails</td>
<td>2 Miles</td>
</tr>
<tr>
<td>Unpaved Roads</td>
<td>3 Miles</td>
</tr>
<tr>
<td>Paved Roads</td>
<td>&lt; 1 Mile</td>
</tr>
<tr>
<td>Housing Units</td>
<td>2</td>
</tr>
<tr>
<td>Water Systems</td>
<td>2</td>
</tr>
<tr>
<td>All Other Assets</td>
<td>11</td>
</tr>
</tbody>
</table>

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.

†All Other assets include maintained landscapes, boundaries, utility systems, maintained archeological sites, and interpretive media.

Estimated Maintenance Needs

The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

There is also a $80K annual Routine Maintenance requirement in addition to the costs shown above.

There are $512K for Buildings, $94K for Paved Roads & Structures, and $1M for all remaining asset categories.

Buildings and Paved Roads & Structures have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

Project Funding

Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows examples of projects in the current funding stream. Not all estimated maintenance needs are captured in the projects below.

<table>
<thead>
<tr>
<th>Projects in Current Funding Stream</th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rehabilitate Visitor Center</td>
<td>$596,000</td>
</tr>
<tr>
<td>Rehabilitate Pathway to Cave</td>
<td>$87,000</td>
</tr>
</tbody>
</table>

---

3. Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
4. Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
5. Cost estimates for projects are dependent on the current phase and size of each project’s scoping and costing process. Planning for larger, more complex projects requires a longer lead time and preconstruction activities may be funded separately. These estimates continue to be refined as scoping and design is completed and the project moves toward execution. Costs are rounded to the nearest thousand.

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Infrastructure Inventory
The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **1 Building**
- **< 1 Mile of Trails**
- **0 Housing Units**
- **0 Campgrounds**
- **2 Miles of Unpaved Roads**
- **0 Water Systems**
- **2 Miles of Paved Roads**
- **17 All Other Assets**

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.

†All Other assets include maintained landscapes and maintained archeological sites.

Estimated Maintenance Needs
The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

There is also a $749 K annual Routine Maintenance requirement in addition to the costs shown above.

<table>
<thead>
<tr>
<th>Building</th>
<th>Unpaved Roads</th>
<th>All Remaining Asset Categories</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>$4 M</strong></td>
<td><strong>$1 M</strong></td>
<td><strong>$2 M</strong></td>
</tr>
</tbody>
</table>

Note: Estimated maintenance needs may not sum exactly to the total need due to rounding.

Project Funding
Salt River Bay National Historical Park and Ecological Preserve does not have any projects in the formulated lists released publicly.

---

3. Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
4. Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
5. This includes projects in the following fund sources: Recreation Fee Revenue (FY 2021 Congressional Justification), Repair/Rehabilitation (FY 2021 – 2025), Line Item Construction (FY 2021 – 2025), and Federal Lands Transportation Program (FY 2020 – 2021).
Infrastrucure Inventory

The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **10 Buildings**
- **2 Miles of Trails**
- **4 Housing Units**
- **0 Campgrounds**
- **0 Miles of Unpaved Roads**
- **5 Water Systems**
- **< 1 Mile of Paved Roads**
- **67 All Other Assets**

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.

†All Other assets include maintained landscapes, utility systems, marinas, monuments, fortifications, and interpretive media.

Estimated Maintenance Needs

The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

- **Deferred Maintenance**: $40 M
- **Capital Improvement**: $3 M
- **Other Facility Maintenance**: $4 M
- **Total Need**: $47 M

There is also a $2 M annual Routine Maintenance requirement in addition to the costs shown above.

### Trails and Buildings have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

- **$3 M for Trails**
- **$3 M for Buildings**
- **$41 M for all remaining asset categories**

Driven by fortifications ($35 M) and paved roads ($2 M)

Note: Estimated maintenance needs may not sum exactly to the total need due to rounding.

Project Funding

Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows examples of projects in the current funding stream. Not all estimated maintenance needs are captured in the projects below.

<table>
<thead>
<tr>
<th>Projects in Current Funding Stream</th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Repair &amp; Restore Historic Masonry Surfaces - Santo Tomas</td>
<td>$1,046,000</td>
</tr>
<tr>
<td>Preserve Ravelín Containing Garita del Diablo</td>
<td>$971,000</td>
</tr>
<tr>
<td>Rehabilitate and Repair Santa Teresa Wall</td>
<td>$920,000</td>
</tr>
<tr>
<td>Preserve Bastión de San Antonio Masonry</td>
<td>$766,000</td>
</tr>
<tr>
<td>Repair El Abanico Tunnels</td>
<td>$737,000</td>
</tr>
</tbody>
</table>

3 Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
4 Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
5 Cost estimates for projects are dependent on the current phase and size of each project’s scoping and costing process. Planning for larger, more complex projects requires a longer lead time and preconstruction activities may be funded separately. These estimates continue to be refined as scoping and design is completed and the project moves toward execution. Costs are rounded to the nearest thousand.
### Infrastructure Inventory

The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

<table>
<thead>
<tr>
<th>Asset Category</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Buildings</td>
<td>7</td>
</tr>
<tr>
<td>Campgrounds</td>
<td>0</td>
</tr>
<tr>
<td>Waste Water Systems</td>
<td>0</td>
</tr>
<tr>
<td>Mile Trails</td>
<td>0</td>
</tr>
<tr>
<td>Miles Unpaved Roads</td>
<td>0</td>
</tr>
<tr>
<td>Miles Paved Roads</td>
<td>54</td>
</tr>
<tr>
<td>Housing Units*</td>
<td>0</td>
</tr>
<tr>
<td>Water Systems</td>
<td>0</td>
</tr>
</tbody>
</table>

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.

†All Other assets include maintained landscapes, utility systems, and interpretive media.

### Estimated Maintenance Needs

The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

- **Total Need**: $19 M
- **Capital Improvement**: $14 M
- **Deferred Maintenance**: $148 K
- **Other Facility Maintenance**: $5 M

There is also a $738 K annual Routine Maintenance requirement in addition to the costs shown above.

### Buildings and Paved Roads & Structures

Buildings and Paved Roads & Structures have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

<table>
<thead>
<tr>
<th>Asset Category</th>
<th>Estimated Maintenance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Buildings</td>
<td>$14 M</td>
</tr>
<tr>
<td>Paved Roads &amp; Structures</td>
<td>$5 M</td>
</tr>
<tr>
<td>All Other Assets†</td>
<td>$417 K</td>
</tr>
</tbody>
</table>

†Paved Roads & Structures includes paved roadways and paved parking areas.

*Note: Estimated maintenance needs may not sum exactly to the total need due to rounding.

### Project Funding

Selma to Montgomery National Historic Trail does not have any projects in the formulated lists released publicly.

---

3. Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
4. Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
5. This includes projects in the following fund sources: Recreation Fee Revenue (FY 2021 Congressional Justification), Repair/Rehabilitation (FY 2021 – 2025), Line Item Construction (FY 2021 – 2025), and Federal Lands Transportation Program (FY 2020 – 2021).
Infrastructure Inventory

The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **39 Buildings**
- **0 Campgrounds**
- **2 Waste Water Systems**
- **0 Miles of Trails**
- **<1 Mile of Unpaved Roads**
- **18 Miles of Paved Roads**
- **5 Housing Units**
- **1 Water System**
- **13 All Other Assets**

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.

†All Other assets include maintained landscapes, utility systems, monuments, maintained archeological sites, and interpretive media.

---

Estimated Maintenance Needs

The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

- **Total Need $14 M**
  - Capital Improvement $3 M
  - Other Facility Maintenance $489 K
  - Deferred Maintenance $10 M

There is also a **$1 M annual Routine Maintenance** requirement in addition to the costs shown above.

---

Paved Roads & Structures and Buildings have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

- **$7 M for Paved Roads & Structures**
- **$4 M for Buildings**

All Other Assets

Driven by interpretive media ($2 M) and maintained landscapes ($1 M)

---

Project Funding

Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows examples of projects in the current funding stream. Not all estimated maintenance needs are captured in the projects below.

<table>
<thead>
<tr>
<th>Projects in Current Funding Stream</th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boundary Survey of Tracts at Shiloh National Military Park</td>
<td>$288,000</td>
</tr>
<tr>
<td>Rehabilitate and Repair Failing Geothermal HVAC System</td>
<td>$217,000</td>
</tr>
<tr>
<td>Repair Water Damaged and Rotted Areas on Exterior of Main Park Visitor Center</td>
<td>$17,000</td>
</tr>
</tbody>
</table>

---

3. Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
4. Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
5. Cost estimates for projects are dependent on the current phase and size of each project’s scoping and costing process. Planning for larger, more complex projects requires a longer lead time and preconstruction activities may be funded separately. These estimates continue to be refined as scoping and design is completed and the project moves toward execution. Costs are rounded to the nearest thousand.
Infrastructure Inventory

The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **1 Building**
- **0 Campgrounds**
- **0 Waste Water Systems**
- **0 Miles of Trails**
- **0 Miles of Unpaved Roads**
- **0 Miles of Paved Roads**
- **0 Housing Units**
- **0 Water Systems**
- **0 All Other Assets**

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.
†There are no other asset categories at Southeast Archeology Center.

**Buildings** have the highest **estimated maintenance needs** by asset category at the park. The figure below does not include the cost of Routine Maintenance.

**$70 K for Buildings**

Note: Estimated maintenance needs may not sum exactly to the total need due to rounding.

Estimated Maintenance Needs

The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

- **Total Need $70 K**
- **Deferred Maintenance $70 K**

There is also a **$12 K annual Routine Maintenance** requirement in addition to the costs shown above.

Project Funding

Southeast Archeology Center does not have any projects in the formulated lists released publicly.

---

3 Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
4 Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
5 This includes projects in the following fund sources: Recreation Fee Revenue (FY 2021 Congressional Justification), Repair/Rehabilitation (FY 2021 – 2025), Line Item Construction (FY 2021 – 2025), and Federal Lands Transportation Program (FY 2020 – 2021).

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Infrastructure Inventory

The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **7 Buildings**
- **5 Miles of Trails**
- **2 Housing Units**
- **< 1 Mile of Unpaved Roads**
- **1 Water System**
- **48 All Other Assets**
- **0 Campgrounds**
- **0 Waste Water Systems**
- **4 Miles of Paved Roads**

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.

†All Other assets include maintained landscapes, boundaries, utility systems, monuments, fortifications, interpretive media, and amphitheaters.

Estimated Maintenance Needs

The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

There is also a $758 K annual Routine Maintenance requirement in addition to the costs shown above.

Paved Roads & Structures and Buildings have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

- **$3 M for Paved Roads & Structures**
- **$292 K for Buildings**
- **$7 M for all remaining asset categories**

Driven by maintained landscapes ($6 M) and fortifications ($351 K)

Project Funding

Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows examples of projects in the current funding stream. Not all estimated maintenance needs are captured in the projects below.

<table>
<thead>
<tr>
<th>Projects in Current Funding Stream</th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Repoint Interior of National Cemetery West Wall</td>
<td>$406,000</td>
</tr>
<tr>
<td>Replace Lunette Palmer and Thomas Boardwalk Decking and Hand Railing</td>
<td>$128,000</td>
</tr>
<tr>
<td>Repair Asphalt Trail Fortress Rosencrans</td>
<td>$16,000</td>
</tr>
</tbody>
</table>

3 Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
4 Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
5 Cost estimates for projects are dependent on the current phase and size of each project’s scoping and costing process. Planning for larger, more complex projects requires a longer lead time and preconstruction activities may be funded separately. These estimates continue to be refined as scoping and design is completed and the project moves toward execution. Costs are rounded to the nearest thousand.
Infrastructure Inventory
The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **Buildings**: 27
- **Paved Roads & Structures**: 16
- **Campground**: 1
- **Unpaved Roads**: 12
- **Water Systems**: 10
- **Housing Units**: 4
- **Trail Bridges**: 27
- **Unpaved Roads**: <1

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.

1 All Other assets include trail bridges, maintained landscapes, utility systems, dams, constructed waterways, marinas, monuments, maintained archeological sites, and interpretive media.

Building and Paved Roads & Structures have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

<table>
<thead>
<tr>
<th>Buildings</th>
<th>Paved Roads &amp; Structures</th>
<th>All Remaining Asset Categories</th>
</tr>
</thead>
<tbody>
<tr>
<td>$2 M</td>
<td>$162 K</td>
<td>$9 M</td>
</tr>
</tbody>
</table>

Paved Roads & Structures includes paved roadways, paved parking areas, and bridges.

Note: Estimated maintenance needs may not sum exactly to the total need due to rounding.

Estimated Maintenance Needs
The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

There is also a $390 K annual Routine Maintenance requirement in addition to the costs shown above.

Project Funding
Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows examples of projects in the current funding stream. Not all estimated maintenance needs are captured in the projects below.

<table>
<thead>
<tr>
<th>Projects in Current Funding Stream</th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Repair Fort Caroline Shoreline</td>
<td>$679,000</td>
</tr>
<tr>
<td>Relocate Timucuan Trail Due To Excessive Shoreline Erosion</td>
<td>$234,000</td>
</tr>
<tr>
<td>Repoint Five Fireplaces at Kingsley Plantation</td>
<td>$113,000</td>
</tr>
</tbody>
</table>

1 Fort Caroline National Memorial is included as it is co-managed with Timucuan Ecological & Historic Preserve.


4 Total need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.

5 Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.

6 Cost estimates for projects are dependent on the current phase and size of each project’s scoping and costing process. Planning for larger, more complex projects requires a longer lead time and preconstruction activities may be funded separately. These estimates continue to be refined as scoping and design is completed and the project moves toward execution. Costs are rounded to the nearest thousand.

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Infrastructure Inventory

The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **16 Buildings**
- **0 Campgrounds**
- **1 Waste Water System**
- **< 1 Mile of Trails**
- **< 1 Mile of Unpaved Roads**
- **< 1 Mile of Paved Roads**
- **0 Housing Units**
- **0 Water Systems**
- **29 All Other Assets**

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.
†All Other assets include maintained landscapes, utility systems, aviation systems, monuments, and interpretive media.

Estimated Maintenance Needs

The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

There is also a $188 K annual Routine Maintenance requirement in addition to the costs shown above.

<table>
<thead>
<tr>
<th>Buildings</th>
<th>Paved Roads &amp; Structures</th>
<th>All Remaining Asset Categories</th>
</tr>
</thead>
<tbody>
<tr>
<td>$3 M</td>
<td>$684 K</td>
<td>$446 K</td>
</tr>
</tbody>
</table>

Buildings and Paved Roads & Structures have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

- **$3 M for Buildings**
- **$684 K for Paved Roads & Structures**
- **$446 K for all remaining asset categories**

Paved Roads & Structures includes paved roadways and paved parking areas.

Note: Estimated maintenance needs may not sum exactly to the total need due to rounding.

Project Funding

Tuskegee Airmen National Historic Site does not have any projects in the formulated lists released publicly.

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3 Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
4 Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
5 This includes projects in the following fund sources: Recreation Fee Revenue (FY 2021 Congressional Justification), Repair/Rehabilitation (FY 2021 – 2025), Line Item Construction (FY 2021 – 2025), and Federal Lands Transportation Program (FY 2020 – 2021).
Infrastructure Inventory
The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **9 Buildings**
- **< 1 Mile of Trails**
- **0 Housing Units**
- **0 Campgrounds**
- **0 Miles of Unpaved Roads**
- **0 Water Systems**
- **0 Miles of Paved Roads**
- **7 All Other Assets**

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.

1 All Other assets include maintained landscapes, monuments, and interpretive media.

Estimated Maintenance Needs
The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

There is also a $129 K annual Routine Maintenance requirement in addition to the costs shown above.

### Buildings and Paved Roads & Structures

- **$4 M for Buildings**
- **$659 K for Paved Roads & Structures**
- **$170 K for all remaining asset categories**

*Paved Roads & Structures includes paved parking areas.

**Note:** Estimated maintenance needs may not sum exactly to the total need due to rounding.

Project Funding
Tuskegee Institute National Historic Site does not have any projects in the formulated lists released publicly.

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3 Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
4 Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
5 This includes projects in the following fund sources: Recreation Fee Revenue (FY 2021 Congressional Justification), Repair/Rehabilitation (FY 2021 – 2025), Line Item Construction (FY 2021 – 2025), and Federal Lands Transportation Program (FY 2020 – 2021).
**Infrastructure Inventory**

The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **12 Buildings**
- **0 Campgrounds**
- **1 Waste Water System**
- **0 Miles of Trails**
- **< 1 Mile of Unpaved Roads**
- **17 Miles of Paved Roads**
- **2 Housing Units**
- **0 Water Systems**
- **42 All Other Assets**

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.

†All Other assets include trail tunnels, maintained landscapes, boundaries, utility systems, monuments, maintained archeological sites, and interpretive media.

**Estimated Maintenance Needs**

The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

There is also a $3 M annual Routine Maintenance requirement in addition to the costs shown above.

**Paved Roads & Structures** and **Buildings** have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

- **$14 M for Paved Roads & Structures**
- **$3 M for Buildings**

$14 M for all remaining asset categories

Driven by maintained landscapes ($11 M) and monuments ($1 M)

**Project Funding**

Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows examples of projects in the current funding stream. Not all estimated maintenance needs are captured in the projects below.

<table>
<thead>
<tr>
<th>Projects in Current Funding Stream</th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Repair Union Avenue and Louisiana Circle</td>
<td>$1,170,000</td>
</tr>
<tr>
<td>Preserve Wisconsin State Monument</td>
<td>$722,000</td>
</tr>
<tr>
<td>Rehabilitate Living History Building</td>
<td>$146,000</td>
</tr>
<tr>
<td>Urgent Correction of Road Erosion And Repair Confederate Ave. Route 0012</td>
<td>$135,000</td>
</tr>
<tr>
<td>Reconstruct Monument and Marker Concrete Aprons and Foundations</td>
<td>$101,000</td>
</tr>
</tbody>
</table>

3 Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.
4 Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.
5 Cost estimates for projects are dependent on the current phase and size of each project’s scoping and costing process. Planning for larger, more complex projects requires a longer lead time and preconstruction activities may be funded separately. These estimates continue to be refined as scoping and design is completed and the project moves toward execution. Costs are rounded to the nearest thousand.
Virgin Islands National Park
Infrastructure Fact Sheet

133 Thousand Annual Visitors
$27 Million in Economic Output

Infrastructure Inventory

The figures below show the park’s real property inventory by asset category as of the end of FY 2018.

- **78 Buildings**
- **19 Miles of Trails**
- **21 Housing Units**
- **3 Campgrounds**
- **7 Miles of Unpaved Roads**
- **26 Water Systems**
- **18 Waste Water Systems**
- **12 Miles of Paved Roads**
- **113 All Other Assets**

*Housing is defined as residential structures and trailer pads that are associated with the NPS Employee Housing Program whereby rent is collected.

†All Other assets include maintained landscapes, boundaries, utility systems, marinas, maintained archeological sites, interpretive media, and amphitheaters.

Estimated Maintenance Needs

The chart below summarizes the park’s outstanding estimated maintenance needs as of the end of FY 2018.

There is also a $1 M annual Routine Maintenance requirement in addition to the costs shown above.

Paved Roads & Structures and Buildings have the highest estimated maintenance needs by asset category at the park. The figures below do not include the cost of Routine Maintenance.

<table>
<thead>
<tr>
<th>Asset Category</th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paved Roads &amp; Structures</td>
<td>$19 M</td>
</tr>
<tr>
<td>Buildings</td>
<td>$16 M</td>
</tr>
<tr>
<td>All Remaining Assets</td>
<td>$57 M</td>
</tr>
</tbody>
</table>

$19 M for Paved Roads & Structures
$16 M for Buildings
$57 M for all remaining asset categories

Driven by housing ($15 M) and maintained landscapes ($14 M)

Paved Roads & Structures includes paved roadways and paved parking areas.

Note: Estimated maintenance needs may not sum exactly to the total need due to rounding.

Project Funding

Project funding will help the park address its outstanding estimated maintenance needs described above. The table below shows examples of projects in the current funding stream. Not all estimated maintenance needs are captured in the projects below.

<table>
<thead>
<tr>
<th>Projects in Current Funding Stream</th>
<th>Estimated Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Replace roof, Wall Panels, Doors, Windows and Gutters on Maintenance Building</td>
<td>$680,000</td>
</tr>
<tr>
<td>Replace Unsafe Pier at Visitor Center Dock System</td>
<td>$528,000</td>
</tr>
<tr>
<td>Replace Headquarters and Visitor Center Fire Suppression Pumps, Valving, and Controls</td>
<td>$328,000</td>
</tr>
<tr>
<td>Culvert, Ditch and Guard Rail Maintenance</td>
<td>$309,000</td>
</tr>
<tr>
<td>Repair Annaberg Boardwalk</td>
<td>$275,000</td>
</tr>
</tbody>
</table>

1 Virgin Islands Coral Reef National Monument is included as it is co-managed with Virgin Islands National Park.


4 Total Need includes deferred maintenance, other facility maintenance (such as corrective and emergency maintenance, component renewal, and demolition work that is not deferred), and capital improvement. The data is from work identified in the Facility Management Software System (FMSS) as of the end of FY 2018. Total need does not include annual recurring maintenance needs. Estimated project execution costs, such as compliance and design, are included only for paved roadways, paved parking areas, bridges, and tunnels.

5 Routine Maintenance represents modeled costs for recurring maintenance derived from NPS Operations and Maintenance cost models.

6 Cost estimates for projects are dependent on the current phase and size of each project’s scoping and costing process. Planning for larger, more complex projects requires a longer lead time and preconstruction activities may be funded separately. These estimates continue to be refined as scoping and design is completed and the project moves toward execution. Costs are rounded to the nearest thousand.