

STAFF RECOMMENDATION



NCPC File No. 6423

**SMITHSONIAN INSTITUTION
MALL-WIDE BUILDING PERIMETER SECURITY
CONCEPT DESIGN**

The Mall, between Constitution Avenue and Independence Avenue
and 4th Street, NW and 14th Street, NW
Washington, DC

Submission by the Smithsonian Institution

January 29, 2004

Abstract

The Smithsonian Institution (SI) has submitted concept design plans for Mall-wide building perimeter security for ten of the museums located on or near Constitution Avenue and Independence Avenue in Washington, DC. The project would replace the temporary planter pots and industrial looking vehicular controls erected along the streets adjoining the museums after September 11, 2001. The temporary security elements will be replaced with a variety of landscape elements and site amenities, and more attractive vehicular access controls. The proposal would also realign Jefferson Drive which includes modifying and improving the terrace in front of the Smithsonian Castle.

The concept design meets the overall intent of the National *Capital Urban Design and Security Plan* (Plan), although refinement to the placement of a few of the security barriers is needed and the design details will require further consideration during review of the preliminary design plans. The proposal accomplishes consistency with the Plan by incorporating building perimeter security into existing site features to the maximum extent possible, minimizing the placement of barriers in the public realm, and incorporating security into well designed landscape features and site amenities in a manner that enhances the public realm, versus placing foreign and redundant objects in the landscape and streetscape.

Commission Action Requested by Applicant

Approval of concept design pursuant to 40 U.S.C. § 8722(d) and Section 5 of the National Capital Planning Act (40 U.S.C. § 8722(b)(1)).

Executive Director's Recommendation

The Commission:

Commends the Smithsonian Institution and its consultant team for an inclusive public process and incorporating the guidelines of the *National Capital Urban Design and Security Plan* into its building perimeter security plan by balancing security requirements with appropriate urban design principles and historic preservation requirements, and maximizing the opportunities to enhance and complement the Mall facilities and environment for visitors.

Approves the concept design for the Smithsonian Institution Mall-Wide Perimeter Security Improvements at the Mall in Washington, DC as shown on NCPC Map File No. 1.00(73.10)41295

Recommends the applicant refine the design during development of the preliminary site and building plans:

- Redesign the security line at the entry islands in front of the Museums of American History and Natural History on Constitution Avenue to incorporate security into the design of an entry feature or site amenity, and to accentuate the entries to the museums and break-up the expanse of the low freestanding walls.
- Design openings in the freestanding walls to allow access to the lawn areas at the Museums of American History, Natural History, and Air and Space, to allow pedestrians to access the lawns for sitting.
- Redesign the security barrier at the entry stairs at the Museum of Natural History on Madison Drive by modifying the design to relocate bollards from the curb line to the base of the stairs to reduce the visual and physical impact of security at this location.
- Reconsider and/or redesign the bollard line in front of the Quad's decorative fence that runs across the lawn and sidewalk on Independence Avenue and consider hardening the fence in order to avoid adding elements to the landscape that detract from the fence.
- Redesign the bollard placement at outer sidewalks near the Freer Gallery and the Arts and Industry Building on Independence Avenue to reduce unnecessary turns and improve bollard placement relative to corners.
- Relocate the proposed bollards at the Air and Space Museum located at the three eastern pedestrian walkway entrances that align with the site walls to the bottom of the adjacent stairs, as well as the bollards at the pedestrian walkway on 4th Street. This will accentuate these entry areas, de-emphasize the bollards and break the visual monotony of the security line along these streets.

- Evaluate how the low freestanding wall to be placed at the outer edge of the Air and Spaces Museum's west lawn at Independence and 7th Street will impact the visual quality of this corner and the landmark sculptural element and fountain. If the wall is determined to be a visual impediment, consider relocating the security line to the east, or incorporating it into the sculpture/fountain design.
- Consider integrating the guard booths into low retaining walls, and integrating signage and trash receptacles into the security line as hardened elements where possible to avoid redundant elements and reduce clutter along the street.
- Design a structural soil system, or equivalent planting detail, in those areas where significant new tree planting is proposed.
- Propose a method to improve the appearance of the cable beam barrier to be used at the inside barrier line of the proposed sally ports. Consider painting the cable beam mechanical box to reduce its visual presences in the landscape and incorporate signalization into the design of the security booths or cable beam barriers, versus mounting the equipment as an appendage.
- Detail and submit design details for the realignment of Jefferson Drive and for the various security elements to be used on each block including sketches or cross sections to convey visual impacts and spatial relationships.

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BACKGROUND AND STAFF EVALUATION

DESCRIPTION OF PROPOSAL

The Smithsonian Institution has submitted a Mall-wide concept design plan for permanent perimeter security improvements for the Smithsonian's Mall museums and facilities. The proposed improvements will replace temporary barriers put in place after September 11, 2001.

Project Area

The project encompasses the portion of the National Mall between Constitution Avenue and Independence Avenue, and 4th Street, NW and 14th Street, NW. Ten of the fourteen buildings within the project area are included in the concept design and six of these ten buildings are contained in the Quad. (See Page 17 area labeled The Mall for an overall aerial view)

- The National Museum of American History
- The National Museum of Natural History
- The Quad, consisting of: the Smithsonian Castle, S. Dillion Ripley Center, the Freer Gallery, the Sackler Gallery, the Museum of African Art, and the Arts and Industries Building;

- The Hirshhorn Gallery
- The National Air and Space Museum

Neither the National Museum of Art, east and west wings, nor the Department of Agriculture are included in the submittal. These entities are working independently; however, they are coordinating with this project and have expressed their intent to follow the guidelines contained in the Plan. Of the remaining buildings, the National Museum of the American Indian obtained Commission approval in July 2003, and no additional security is needed at the sculpture garden pavilion.

Risk Assessment

The Smithsonian Institution Museums are among the world's and nation's treasures, attracting over 21 million visitors each year. The Smithsonian conducted a consolidated risk assessment for the museums on the Mall and determined, based on the Interagency Security Criteria, that permanent perimeter security is warranted because of the symbolic nature of the museums and the number of employees and tourists that work in and visit the facilities.

Proposed Perimeter Security Measures

In response to their perimeter security needs, the Smithsonian Institution developed four initial building perimeter security concepts. The proposal described herein is a synthesized scheme of the four original concepts, and is the result of initial comments and important input from key stakeholders and interested parties during the consultation process of the environmental assessment and Section 106 of the National Historic Preservation Act.

Although the design approach varies between Constitution Avenue and Independence Avenue because the conditions of the avenues vary, each avenue is treated uniformly, respecting its monumentality, character, and role within the L'Enfant Plan. A contextual approach is employed along Madison Drive and Jefferson Drive, and the north-south streets. (See Page 18 for the overall Mall Plan Concept). The location of the proposed security barrier lines are consistent possible; however, the proposal varies the designs of the particular security elements to respond to the context of a particular block, since each block has a rich design vocabulary, yet ensures the design deviations complement one another.

Perimeter security is accomplished by using a variety of landscape solutions and vehicular access controls. A brief description of the security for the streets within the project area follows; a summary table is provided on Pages 15 and 16.

Museum of American History and Museum of Natural History (See Page 19, NMAH, and Page 20 NMNH)

Constitution Avenue

Free-standing walls are proposed to be constructed on the lawn behind the coping stones at the outer edge of the building yard (inside edge of sidewalk). The walls would run the

length of each building yard, except where interrupted by sidewalks or vehicular entries. Custom-designed bollards are proposed in locations where sidewalks intersect the free-standing walls; retractable bollards will be placed across vehicular entries. Breaks in the walls will be provided to allow pedestrians to access the lawns for sitting. Approximately six new street trees will be planted to infill missing trees within the existing tree row.

At the Museum of Natural History, a geological specimen garden will form the barrier at the corner of Constitution Avenue and 9th Street, NW, under a specimen tree located at the terminus of the butterfly garden.

Madison Drive

At the Museum of American History, existing site retaining walls will be hardened to form the security barrier within the building yard. Along the existing plaza, free-standing walls are proposed at the outer edge of the plaza along the length of the adjacent lawn panels. Custom bollards are proposed where entry walks intersect with the plaza and along the bottom of the plaza entry stairs. At the terminus of each of the walls, pillars will accentuate plaza entryways. Approximately 4 new street trees will be planted to infill missing trees in the tree row.

At the Museum of Natural History, free-standing walls with integrated benches are proposed to be constructed at the inside edge of sidewalk behind the existing coping stone within the building yard. At the grand stairway, the security line extends to the curb; the bollards are proposed across the sidewalk and extend out to the curb, running the length of the stairway.

North-South Streets (9th, 12th, and 14th, Streets, NW)

The existing underpass wall will form the barrier along 9th Street, NW. Free-standing walls are proposed to be constructed at the inside edge of the sidewalk, along the edge of the building yards on 12th and 14th Streets, NW. On 14th Street, benches will be integrated into the wall and a new row of street trees will be planted.

The Quad: The Freer Gallery, The Sackler Gallery, The Castle, The Museum of African Art, The Arts and Industries Building (See Page 21);
The Hirshhorn Gallery (See Page 22); and
The Air and Space Museum (See Pages 23)

Independence Avenue

Along Independence Avenue, existing site walls located within the building yards, are proposed to be hardened to form the security barriers at the Sackler Gallery, Museum of African Art, Hirshhorn Gallery and Air and Space Museum. Custom-designed bollards are placed where sidewalks and entry plazas intersect the walls. At the Air and Space Museum, bollards would run along the opening of the site walls at secondary pedestrian entries to form a continuous security barrier. Retractable bollards will be placed across vehicular entries.

Because the setback from inside edge of sidewalk varies from zero to ten feet at the Arts and Industries Building, the security barrier is proposed to be located along the curb. Although the setback from inside edge of sidewalk is approximately 38-feet at the Freer Gallery, the barrier is also located at the curb. This barrier consists of a combination of custom-designed fence and tree panel enclosures, bollards, and hardened street furniture, such as light poles and urns. Approximately 25 new trees will be planted to create a consistent street tree row along the north side of the avenue.

At the Quad, bollards will be placed within the lawn and along the sidewalk in front of the decorative entrance gate that serves the Quad.

Jefferson Drive

To increase stand-off distance in front of the Castle, the proposal includes: realigning Jefferson Drive to the north approximately 34 feet; re-grading and relocating the terrace walls and the Joseph Henry Statue nearer to the Castle; narrowing the existing roadway; and, removing 25 parking spaces directly in front of the Castle. The existing mature trees between the realigned Jefferson Drive and the gravel path, Adams Drive, would be preserved to the degree possible.

Along the remainder of the Quad, the security barrier consists of free-standing walls with integrated benches, and raised planters located at the inside edge of the curvilinear sidewalk, except in front of the Arts and Industries Building where hardened benches and light poles are proposed within the wide sidewalk area. Bollards are proposed across sidewalks where the sidewalks/plaza areas intersect with the barrier line.

At the Hirshhorn Gallery and Air and Space Museum, existing site walls within the building yard will be hardened. At the Hirshhorn's primary entry staircase, custom bollards and plinth walls, displaying sculptures, will be added to break up the bollard line that runs the length of the base of the stairs. Custom bollards integrated with existing sculpture and new hardened site amenities will be placed across the plaza along the frontage of the Air and Space Museum.

North-South Streets, NW (4th, 7th and 12th Streets, NW)

At 4th Street, NW, the existing site walls at the Museum of Air and Space will be hardened to form the security barrier. At 7th Street, NW, new free-standing walls will be placed in the building yard of the Hirshhorn Gallery and Museum of Air and Space. At the Hirshhorn Gallery, the wall will screen an existing loading area. At the Museum of Air and Space, the wall will be located on the lawn that incorporates a recessed pool containing a landmark geometric sculpture. The existing underpass wall will form the barrier along 12th Street, NW.

Free-Standing Walls

The proposed free-standing walls will consist of a decorative post placed every 48-inches, in-filled with decorative metal work designed based on inspiration of the architectural elements found on associated blocks. The wall will be 24-inches high and will be constructed behind and

level with the six-inch coping stone for a total barrier height of 30-inches. In some instances free-standing benches will be placed within insets of the walls or integrated into the design of the walls.

Vehicular Entries

Security checkpoints currently exist at each vehicular entry (parking and delivery areas). These checkpoints will be maintained in the same locations but security screening will be enhanced by the creation of a 50-foot sally port. Retractable bollards will be placed at the outer barrier line, custom bollards will run the length of the sally port, and a cable beam barrier will form the inner barrier line. Loading and screening operations will not change based on this new configuration. Most delivery trucks will be accommodated within the 50-foot sally port. On rare occasions, large semi-trucks will make deliveries and will be screened at the curb, in accordance with existing operations.

Guard Booths (See Page 24)

New guard booths are proposed at all vehicular entries. The overall concept for the guard booths is to employ use of a uniform palette of materials consisting of a stone base and metal roof and detailing, but to modify the design of the roof and/or detailing to complement the architectural character or context of the associated block.

EVALUATION

As the federal government's central planning agency for the National Capital Region, NCPC reviews projects for both the individual and cumulative impacts that a proposed project will have, as well as evaluates a project in the context of planning principles established by the Commission. In a post-September 11, 2001 climate, NCPC's consideration of how buildings and environments are designed and modified in response to security needs is one of its most significant responsibilities. The Commission seeks an appropriate balance between providing secure environments and maintaining openness and an attractive public realm in areas in which they are located.

Staff recommends approval of the concept design plan for Smithsonian Institution's Mall-wide building perimeter security. *The National Capital Urban Design and Security Plan* (Plan) was used in evaluating the proposal. While some modifications are necessary, the overall concept design is creative, thoughtful and well executed, and substantially meets the Plan. An overview of how the concept proposal complies with the Plan is followed by an evaluation of those areas that will require further consideration and development during the preliminary design phase to minimize the impact of the security measures on the historic fabric of the National Mall and the function and visual quality of the public realm.

The concept complies with the following Plan objectives:

1. Provide security in the context of streetscape enhancement and public realm beautification to achieve aesthetic continuity along streets rather than use of a separate or redundant system of components whose only purpose is security.
2. Expand the palette of elements that can gracefully provide perimeter security in a manner that does not clutter the public realm and avoids the monotony of using numerous unattractive barriers that evoke defensiveness.
3. Balance the need to accommodate perimeter security and the need to maintain vitality of the public realm in a manner that does not impede commercial vitality, or excessively restrict or impede operational use of sidewalks or vehicular mobility, or impact the health of existing trees.
4. Employ a comprehensive approach to address individual buildings security needs, while ensuring perimeter security along streets are complementary and enhance the special character of each precinct.
5. Respect the role of monumental avenues in the L'Enfant Plan by treating these avenues as significant, coherent spaces, emphasizing streetscapes as a whole, resulting in a continuous, dignified appearance.
6. Establish perimeter security near the outer edge of the building yard where possible and design the security elements to complement the building architecture and landscaping within the yard. When the barrier must be established within public space, incorporate security into streetscape elements, and design, compose and arrange them in context with the urban design character of the overall street.

The concept complies with the following specific recommendations for the Mall precinct and Constitution and Independence Avenues in the Plan.

1. Establishing the security barrier line within the building yards and employing a family of plinth walls.
2. Respecting the monumentality of Independence and Constitution Avenues.
3. Establishing a comprehensive street tree planting program; incorporating security into existing site features where possible.
4. Custom designing solutions at entryways and plaza areas.
5. Designing guard houses in conjunction with either the building architecture or the landscape setting as appropriate.

The Smithsonian Institution proposal accomplishes these broad and specific objectives by:

1. Coordinating the perimeter security among ten contiguous buildings, rather than individual buildings.
2. Re-establishing a coherent streetscape by planting of new street trees on all roadways.
3. Respecting the monumentality of Constitution and Independence Avenues.
4. Respecting the ceremonial role of Constitution Avenue and maintaining unencumbered areas for spectator viewing during parades and processions by incorporating security into the building yard.
5. Incorporating security into existing site walls at every given opportunity, such as the underpass walls at 9th and 14th Streets, and the retaining/ planter walls at the Museums of American History and Air and Space, and the Hirshhorn Gallery.
6. Placing the security barriers in the building yard where possible to maintain the openness and sensibility of the public realm, free pedestrian movement, and to minimize impact on vendor activity and emergency access.
7. Employing a range of quality custom-designed elements (fence and tree panels, custom bollards, benches, light poles, and urns) where it is not possible to locate the barrier within the building yard.
8. Minimizing the impact of curbside security by integrating custom-designed elements into a coherent and attractive streetscape by: interspersing them with new fence and tree panel enclosures that directly relate to the tree-planting scheme; establishing a rhythm of streetscape elements; and symmetrically flanking the decorative entry to the Quad, ultimately accentuating the Quad's entry.
9. Designing bollards, urns, benches, and sculptural elements in context with the historic fabric of the mall precinct, while respecting the architecture of individual buildings.
10. Interrupting areas where continuous bollard lines are used, across stairs and plazas, with site amenities such as sculptural elements at the Hirshhorn Gallery and the Air and Space Museum; or hardened benches at the Castle or urns at the Freer Gallery.
11. Employing creative solutions when appropriate such as incorporating security into the geological specimen garden at Constitution Avenue and 9th Street.

Jefferson Drive in front of the Smithsonian Castle

While the changes to Jefferson Drive are significant, the realignment, lowering and narrowing of the road improves the relationship of the statue to the Castle and the pedestrian experience in the plaza area in front of the Castle. This change will also improve the views to the Castle and may potentially reduce roadway congestion in this area. The grade changes must be carefully

executed in order to preserve the mature trees located between the existing roadway and the proposed roadway realignment.

While the overall plan complies with the guidelines of the Plan, several areas warrant additional design development:

General

- Consider integrating the guard booths into low retaining walls, and integrating signage and trash receptacles into the security line as hardened elements where possible to avoid redundant elements and reduce clutter along the street;
- Design openings in the freestanding walls to allow access to the lawn areas at the Museums of American History, Natural History, and Air and Space to allow pedestrians to access the lawns for sitting;
- Design a structural soil system, or equivalent planting detail, in those areas where significant new tree planting is proposed;
- Propose a method to improve the appearance of the cable beam barrier to be used as the inside barrier of the proposed sally ports. Consider painting the cable beam mechanical box to reduce its visual presences in the landscape; and
- Incorporate any signalization or cable beam barriers into security booths, instead of mounting the equipment as an appendage.

National Museums of American History and Natural History

Constitution Avenue

Redesign of the security line at the entry islands in front of both of the museums. The proposal extends the low freestanding wall across the entry islands of the museums. The Museum of American History includes a fountain and the Museum of Natural History includes a landscape area. There is a unique opportunity to incorporate security into the design of an entry feature or site amenity in these locations. Special treatment in these locations will accentuate the entries to the museums and break up expanse of low freestanding wall.

Madison Drive

Redesign the security barrier at the entry stairs by modifying the design to relocate bollards from the curb line to the base of the stairs at the main entry to the Museum of Natural History. This is a high volume passenger drop-off area and main entrance to the museum via the grand staircase, a popular place for visitors to converge. Bollards at the curb in this location will impact the handicap ramp and the flow of pedestrians along the sidewalk. Since the building is large and has a complex façade, placing the bollard line closer in proximity to the stairs will not impact the historic fabric.

The Quad - (Smithsonian Castle, Freer Art Gallery, Arts and Industries, Sackler Gallery, Museum of African Art)

Independence Avenue

- Reconsider and/or redesign the bollard line in front of the decorative fence that runs across the lawn and sidewalk; consider hardening the fence in order to avoid adding elements to the landscape that detract from the fence.
- Redesign the bollard placement at outer sidewalks near Freer and Arts and Industries. There are unnecessary turns and the bollards are not well located relative to corners adjacent to vehicular entries.

Air and Space Museum

Independence Avenue and 4th Street

Relocate the bollards that align with the site walls to the bottom of the adjacent stairs, consistent with the placement of bollards at the main entry stairs for the three eastern pedestrian entryways fronting the avenue and the pedestrian entry on 4th Street. Relocating this portion of the security line will accentuate these entry areas, de-emphasize the bollards and break the visual monotony of the security line along these streets.

Independence Avenue and 7th Street

Evaluate how the low freestanding wall to be placed at the outer edge of the west building yard lawn will impact the visual quality of this lawn area and the landmark sculptural element and fountain. If the wall is a visual impediment, consider relocating the security line to the east, or incorporating into the sculpture/fountain design.

Prior to preliminary design review, submit the following details:

- Perspective sketch of the design of the freestanding wall, including depiction of the proposed materials at the National Museum of American History, and a cross-section of the security barrier in relation to the grass-roof pavilion on the lawn of the Museum of American History.
- Details (style, height, diameter, etc.) of the fixed, removable and retractable bollards, hardened walls, free-standing walls, and benches for each of the blocks, including the placement of security elements at curbs, ramps and stairs, and the relationship between curbside security and parallel parking.
- Design of the plinth wall at the Hirshhorn Gallery.
- Design of the roadway realignment, proposed fountain, terrace walls and raised planter in front of the Castle, including the security barrier to be used at the new stairs.

- Type of geologic specimens to be used at the terminus of the Butterfly garden at the Museum of Natural History.
- Design of the guard booths including proposed materials.
- Design detail of how emergency access beyond the security barriers will be accommodated at the curb and to the buildings.

COORDINATION

Coordinating Committee

The Coordinating Committee reviewed this item at its meeting on January 14, 2004 and forwarded the proposal to the Commission with the statement that the project has been coordinated with all agencies participating, except the District of Columbia Office of Planning. The representative for DCOP withheld coordination pending concurrence to develop a Memorandum of Agreement to mitigate the 106 issues. The participating agencies were NCPC; the District of Columbia Office of Planning; the Department of Housing and Community Development; the General Services Administration; and the Washington Metropolitan Area Transit Authority.

Commission of Fine Arts

The Commission of Fine Arts approved the concept design plans on January 15, 2004.

CONFORMANCE

National Historic Preservation Act

The Smithsonian Institution formally initiated consultation with the D.C. State Historic Preservation Office (DC SHPO) on October 29, 2003, indicating that it determined that the mall perimeter security enhancement project would have an effect on the National Mall and on the L'Enfant Plan. Both historic properties are listed in the National Register of Historic Places, as are the Museum of Natural History and the Freer Gallery of Art. The Castle and the Arts and Industries Buildings are both National Historic Landmarks. The DC SHPO anticipates that either a Memorandum of Agreement or a Programmatic Agreement will be developed as the project progresses.

In addition to the consultation meetings that SI has held with various agencies, including review agencies, NPS, the Department of Agriculture, and the National Gallery of Art, SI also held two consultation meetings with interested parties and organizations. SI's design team presented alternative study schemes and solicited comments on how best to locate and design the barriers

in order to mitigate their effect on the historic buildings and their settings, as well as on the National Mall as a whole. The current concept submission reflects the comments and discussion to date.

All agreed that the goal of the project was to maintain the existing landscape character of the Mall and of the individual building settings by designing barriers that were as pierced and open as possible, and to use retaining walls and other landscape solutions rather than bollards or bollard fences wherever possible and desirable. In addition, SI's comprehensive approach was seen as a positive influence on the design of the security elements as well as on the protection of the historic character of the buildings and the Mall.

The elements of the proposal that elicited particular discussion included the realignment of Jefferson Drive in front of the Castle. The realignment was favorably received as a creative solution that would expand and enhance the Castle's landscaped setting, remove cars from its front door, and establish a series of steps to the Mall's central panels that would improve the physical and visual connection with the Castle.

The consulting parties also studied the design of the bollard fence along the Constitution Avenue side of the Museum of Natural History, where the fence would be located adjacent to the historic stone curb bordering the lawn. The parties agreed with the team that further design development of the bollard fence at Natural History would be needed.

At this early stage, there was limited discussion of the design of the guard booths, but general agreement that the booths should reflect to some extent the individual architectural character of each museum. Similarly, the individualized designs of the bollards and fences at each museum will be the subject of further consultation as the design is developed.

National Environmental Policy Act

The SI is in the process of preparing an Environmental Assessment (EA) consistent with the National Environmental Policy Act (NEPA) of 1969, as amended, and the Council of Environmental Quality's (CEQ) regulations implementing NEPA. The Smithsonian Institution is not a "federal agency" within the meaning of NEPA and CEQ. However, it is SI policy and intent to inform and involve the public and other stakeholders in the planning of the Mall Security initiatives and to adhere to Commission project submission requirements. Additionally, recognizing its stewardship responsibilities as an independent trust instrumentally created by Congress, the SI is committed to integrating environmental considerations into its planning and decision-making activities consistent with the spirit of NEPA. The SI is the lead entity responsible for this EA preparation and the Commission is a cooperating agency.

The SI has already conducted NEPA scoping meetings with several federal and District of Columbia agencies and the public. Agencies and organizations that have received information about the Mall Security project include: the Commission of Fine Arts; the Washington Metropolitan Area Transportation Authority; the District of Columbia Office of Planning; the District of Columbia Department of Transportation; the District of Columbia State Historic

Preservation Office; the National Park Service; the General Services Administration; the Committee of 100 On the Federal City; the District of Columbia Preservation League, The National Coalition to Save the Mall, and the adjacent Advisory Neighborhood Commission in that portion of the city, as well as others. Additional interested groups have been provided information upon request or are participating in the development of the project through the National Historic Preservation Act Section 106 process.

The Environmental Assessment (EA) will be available for public comment early February 2004.

Federal Capital Improvements Program

These improvements are included in the Federal Capital Improvements Program for Fiscal Years 2003-2008.

Summary Tables for Mall-Wide Perimeter Security at the Smithsonian Institution

	National Museum of American History	National Museum of Natural History
Constitution Avenue	<ul style="list-style-type: none"> - Construct low freestanding wall at outer building yard line - Install bollards across sidewalks - Install retractable bollards at vehicular entries 	<ul style="list-style-type: none"> - Construct low freestanding wall at outer building yard line - Install bollards across sidewalks - Install retractable bollards at vehicular entries - Install guard booth at parking lot/loading entries - Harden museum identity sign
Madison Drive, NW	<ul style="list-style-type: none"> - Harden existing walls in building yard (at loading wells on both sides of building) - Construct freestanding wall at interior lawn edge along building plaza - Install bollards at the base of entry stairs 	<ul style="list-style-type: none"> - Install low freestanding wall at outer edge of building yard line w/ integral benches on either side of museum entry - Install bollards across existing path - Install bollards at the curb along the front of the entry stairs
14th Street, NW	<ul style="list-style-type: none"> - Install freestanding wall w/ integral benches at outer building yard line - Install retractable bollards and guard booth at vehicular entry 	n/a
12th Street, NW	<ul style="list-style-type: none"> - Install low freestanding wall at outer building yard line - Install retractable bollards at interior sidewalk - Install retractable bollards and guard booth at vehicular entry 	n/a
9th Street, NW	n/a	<ul style="list-style-type: none"> - Use existing 9th Street underpass wall as security barrier - Install geologic specimens and path at north corner that ties in with existing flower garden and pedestrian walk

	The Quad	Hirshhorn Gallery	National Air and Space Museum
Independence Avenue	Freer Gallery and Arts and Industry - Install bollards, bollard fence panels, bollard tree fence panels, hardened urns and light poles at outside edge of sidewalk	- Hardened existing wall at outer building yard - Install retractable and fixed bollards across sidewalk at main entry - Add Street trees - Install retractable bollards and guard booth at vehicle entry	- Hardened existing terrace walls at outer building yard - Install fixed and retractable bollards across sidewalks in line with existing terrace walls - install bollards at base of entry stairs
	Sackler Gallery and Museum of African Art - Use existing walls located in front of buildings - Install bollards across lawn and removable bollards across sidewalk in front of fence at main entry to Quad, opposite the Castle - Incorporate hardened light fixtures		
Jefferson Drive	Freer Gallery - Install low freestanding wall w/ integral benches at outer edge of building yard - Raise planter wall Install bollards across sidewalk	- Hardened existing walls - Install bollards at base of entry stairs - Add plinth wall to stairs to support new hardened sculptures	- Hardened existing terrace walls at outer edge of building yard - Relocate and harden sculpture and add new hardened site amenities interspersed w/ bollards within building yard entry plaza
	Castle - Realign Jefferson Drive to the north about 34 feet - Realign steps and statue and install terrace wall within outer building yard to create lawn and entry plaza, including possibly adding a water feature.		
	Arts and Industries - Install hardened seating with interspersed bollards to fill gaps along sidewalk area - Install a terrace wall along lawn at outer building yard line		
7th Street NW	n/a	- Construct low freestanding wall behind evergreen hedge in lawn at outer driveway edge	- Install low freestanding wall at outer edge of building yard and retractable bollards at vehicle entry
4th Street NW	n/a	n/a	- Hardened existing terrace wall at outer building yard line - Install retractable bollards and guard booth at vehicle entry
12th Street	- Use existing 12 th Street underpass wall	n/a	n/a