The Mall: Irrigation, Drainage, Water Collection and Relandscaping

U.S. Commission of Fine Arts Concept Review



















- An Iconic Destination
- A National Gathering Place























The Consequences

- Soil Compaction
- Poor Drainage
- Poor quality turf with inconsistent coverage
- High volume of dust from degraded walks and turf areas





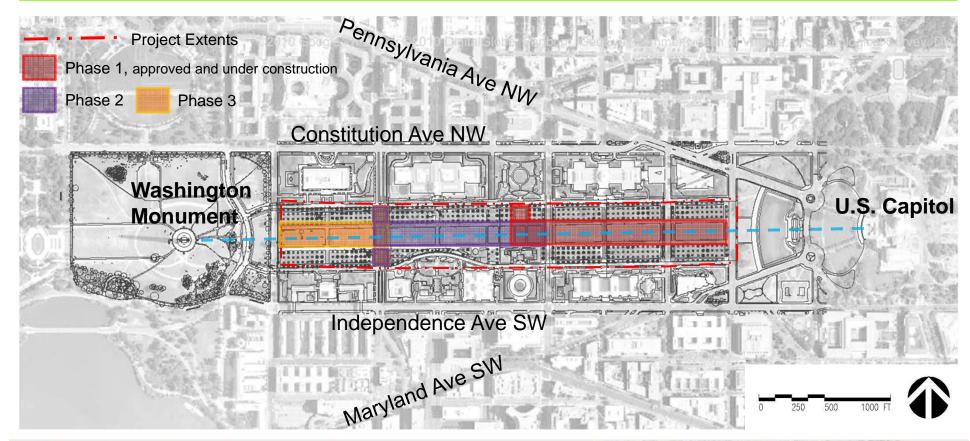


Design Goals:

- 1 Aesthetics
- 2 Functionality and Practicality
- 3 Sustainability
- 4 Sensitivity to Historic Context

6 primary proposed elements:

- 1 18" Granite Curbing
- 2 Rounded Corners (15' Radius)
- 3 Compaction-resistant Soil System
- 4 Revised Grading
- 5 Irrigation and Water Storage
- 6 Walkway Layout

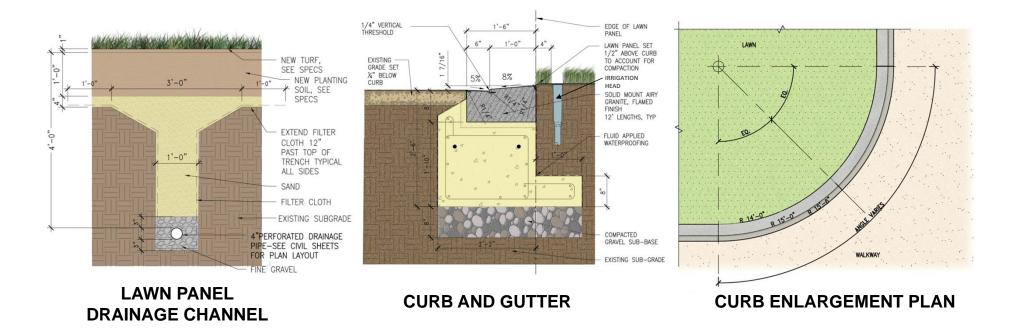


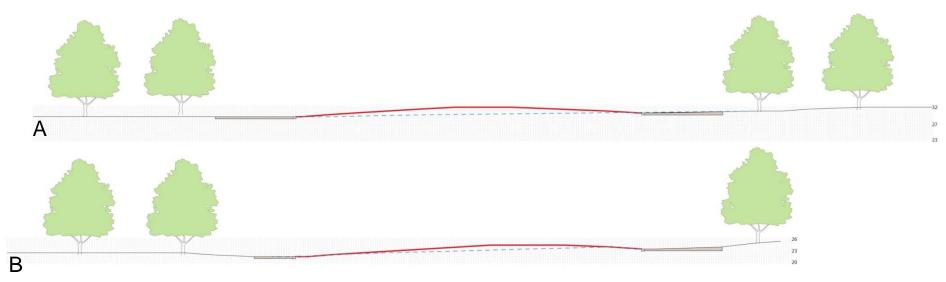












Existing grading — Proposed grading — Section Scale: 1"=50' Horizontal; 1-2 Vertical



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PHASE 2 AND 3
GRADING





Panel 33 reconstruction, looking east



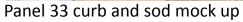
Panel 33 reconstruction, looking west



Construction of Cistern 3











NATIONAL PARK SERVICE

Designing the Parks: Reverence for Place and Sustainability

- Design and build for multiple uses.
- Create flexible spaces. Flexibility is needed for viability.
- Design for simplicity /maintenance ease.
- Be overt green design should shine.
- Reuse wherever possible and practical.
- Change may be needed for the resource to survive.
- Use the historic resources to structure contemporary design.
- Use transportation effectively, sensitively. Make it a good experience.
- Elevate the human spirit through sensitive and integrated resource planning.

- Responsibility to future generations.
- Capture and preserve the spirit of place.
- Understand the place, including the past and its inconvenient truths.
- Acknowledge a site's complexity and embrace it.
- Protect the essential character.
- Opportunities for renewal
- Assess the resource; know what's flexible and what cannot change.
- Value a site's history and purpose.
- Preserve design spirit but allow things to evolve.
- Respect historic design principles while adapting to future needs.



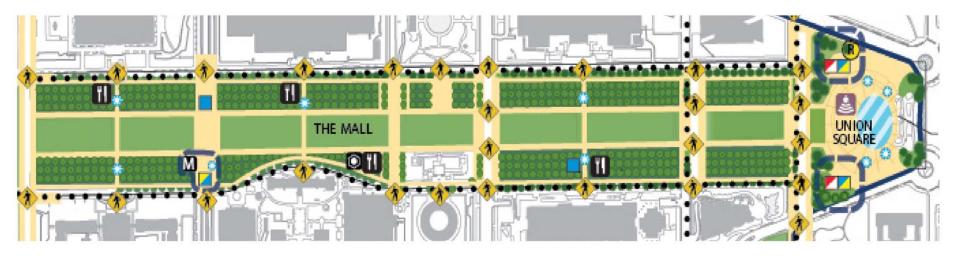
NPS





"The National Mall must be refurbished so that its treasured memorials and historic landscapes can be preserved, very high levels of use can be sustained, and the needs of visitors can be met."

- The National Mall Plan, 2010



- Increased paved areas to facilitate events NMP
- NMP was conceptual and did not dimension walks or areas
- NMP FEIS added event data but did not revise conceptual map
- 2011 NPS examined event details (tent sizes and groupings) revealed need for distance between 3-4 temporary facility groupings to avoid audio distraction
- CFR update, 2010, added inaugural media space of 150x200'
- Phase 1 did not include NMP concepts since the design work preceded signing the NMP Record of Decision.
- Union Square, a critical component of the National Mall Plan to absorb event use from the Mall was transferred to the Architect of the Capitol in the appropriations bill on Dec 23, 2011.

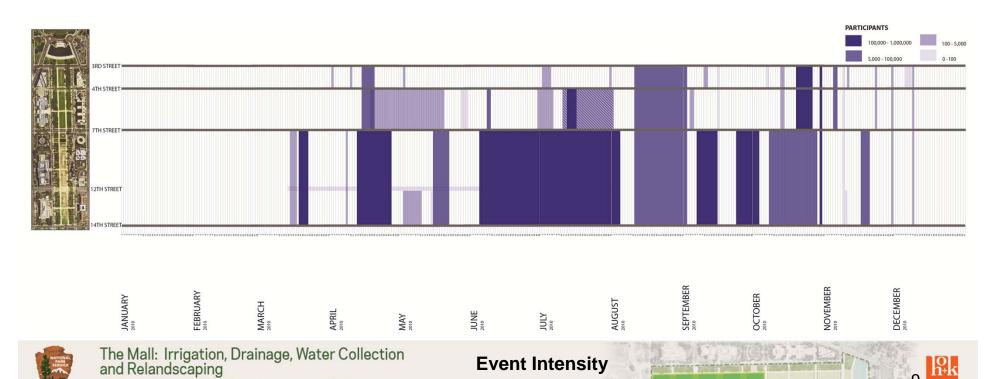


The National Mall, April 2010

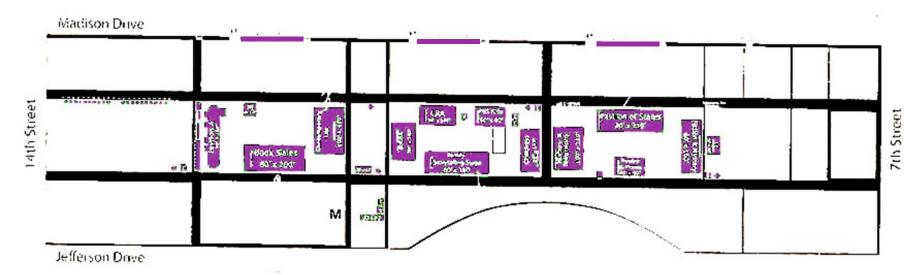
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- Temporary Event structures cause the death of the turf in 9 days when covered.
- Temporary Event structures placed on paving is a sustainable practice that will protect the turf.

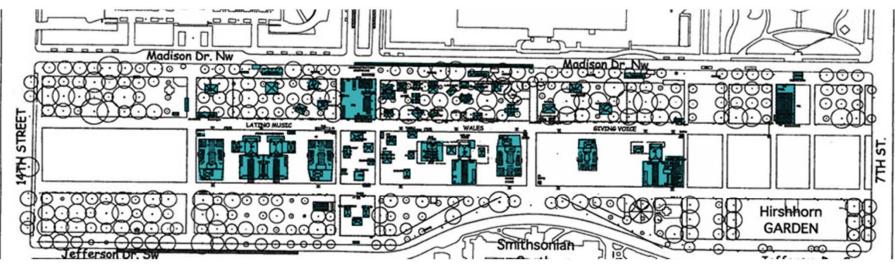
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in 2010



Library of Congress Book Festival 2011



Smithsonian Folklife Festival 2011





SMALL STRUCTURES

10' - 30'

20-40 COMMON PER EVENT



MEDIUM STRUCTURES

30' - 60'

8-10 COMMON PER EVENT

EVENTS:

- Ball on the Mall
- Walk for the Homeless
- Earth Day
- Comedy Central Rally
- GW Graduation
- Book Festival
- Folklife Festival



LARGE STRUCTURES

60' **- 80'**

3-5 COMMON PER EVENT



EXTRA LARGE STRUCTURES

> 80'

1-4 COMMON PER EVENT

OTHER ELEMENTS:

- Production Storage
- Media Trailers
- Portable Toilets
- Stages
- Backstage
- Stage Extensions
- Generators
- Jumbotrons
- Satellite Trucks
- Water Trucks
- Press Risers
- Light and
 - **Sound Trailers**
- Fencings
- Chairs
- Dumpsters
- Fuel Storage



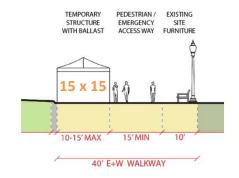
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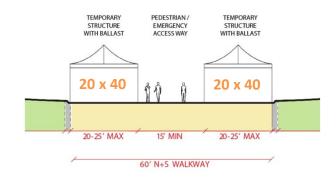
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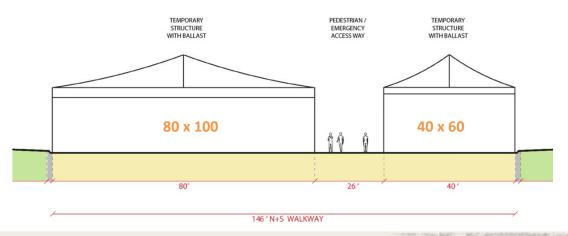
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Existing Event Analysis









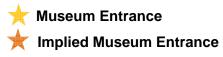








Scheme 1



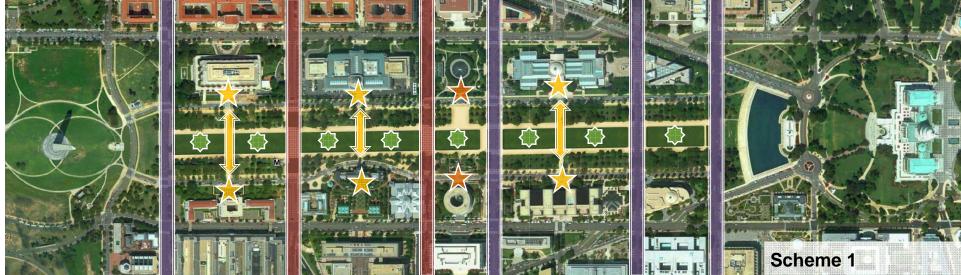
Street Corridors

Street Grid Extensions



Turf Panels







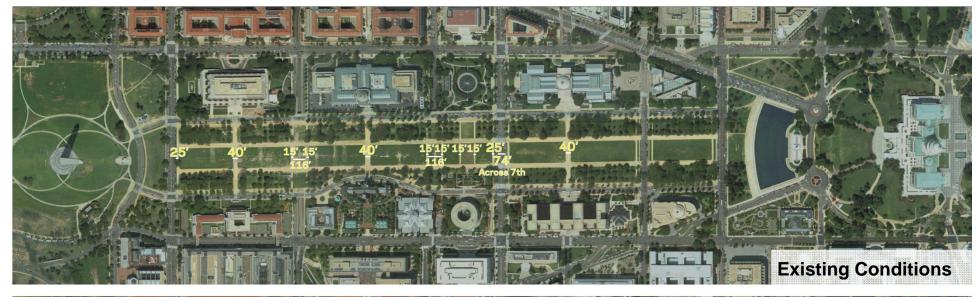
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Scheme 1
Design Concept









Scheme 1 Layout

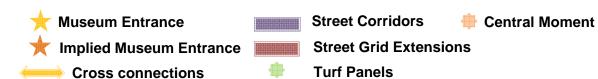






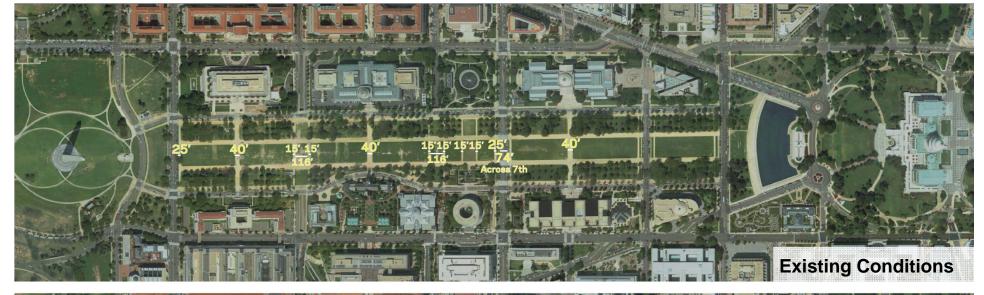


Scheme 2













Scheme 2 Layout

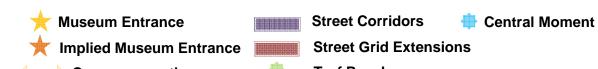






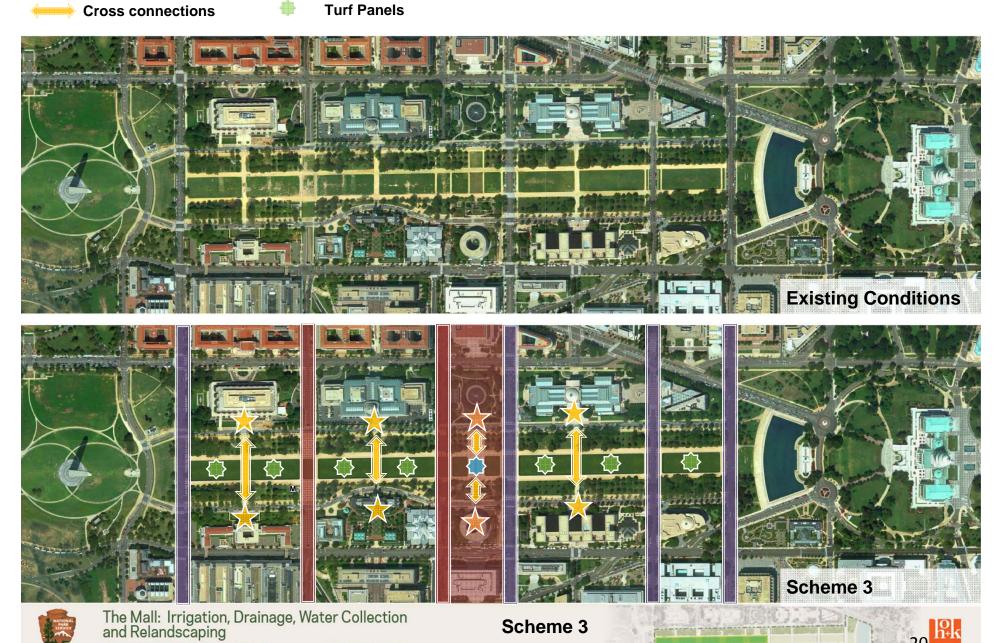


Scheme 3



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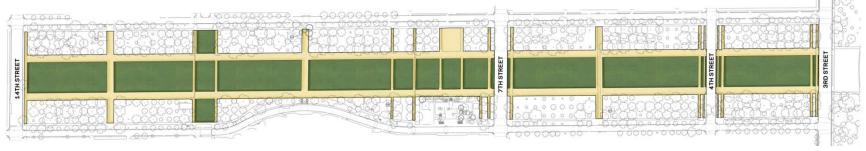




Scheme 3 Layout



Area Calculations					
	Turf Panel Area (ac.)	Turf Percentage (%)	Walkway Area (ac.)	Walkway Percentage (%)	Calculated Mall Area (ac.)
Existing Conditions	18.09	58.8%	12.69	41.2%	30.78

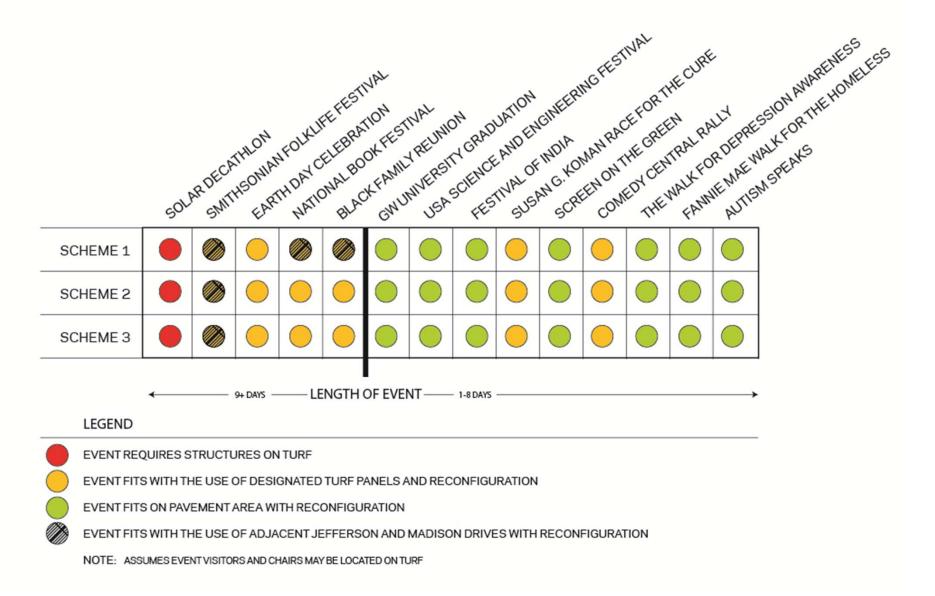


NOTE: Calculated area includes The National Mall from 14th to 3rd Street. It does not included Union Square and the walkways adjacent to Jefferson and Madison Drives

	Turf Panel	Turf	Walkway	Walkway	Delta
	Area	Percentage	Area	Percentage	Turf Area Loss
	(ac.)	(%)	(ac.)	(%)	(ac.)
Mall Schemes					
Scheme 1	17.29	56.2%	13.49	43.8%	0.800
Scheme 2	16.74	54.4%	14.04	45.6%	1.350
Scheme 3	16.82	54.6%	13.96	45.4%	1.270



REPRESENTATIVE EVENTS ON THE NATIONAL MALL SCHEMES









Looking west from the Capitol Steps

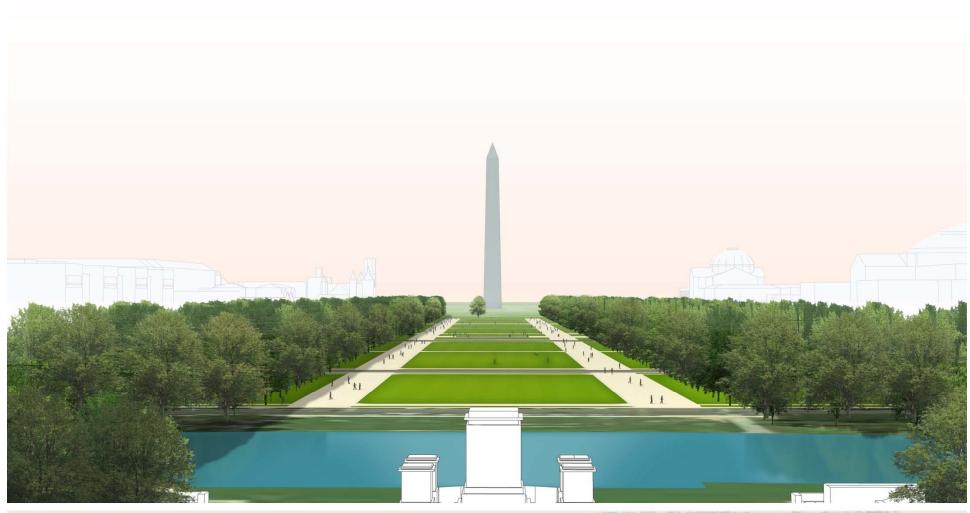


Looking east toward 7th Street

7th Street causes the largest break in the continuous visual of green swath currently on the Mall. The dimension between lawn panels across the road is 160'.

The proposed schemes were developed so that an unbroken "Tapis Vert" would remain a key visual component from eye level while standing on the Mall.

Looking west toward the Washington Monument from The Capitol steps



Looking east from 290 feet west of 12th Street corridor





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