

Office of Planning, Design and Construction November 2021

National Air and Space Museum (NASM) – Mall Building Revitalize Building Envelope and Infrastructure



Nov 2021: Looking Northeast - Terrace/Planter Work On-going

Mission/Scope:

NASM on the National Mall in Washington, D.C., opened in 1976. This 69,480 gross sq. meters (747,877 gross sq. feet) facility includes approximately 14,971 sq. meters (161,145 sq. feet) of exhibit galleries and holds the world's largest collection of historic air and spacecraft.

The mechanical and plumbing systems, original to the 1976 building, have exceeded their useful life spans and are unable to maintain desired environmental conditions. Extensive analysis of the cupping/cracking of portions of the existing "Tennessee Pink marble" exterior has concluded that the entire façade (13,000 stone panels) must be replaced.

This LEED-Gold candidate project will revitalize the building envelope and terraces, improve energy efficiency, upgrade the structure's blast and seismic resistance, modernize the building MEP systems, and improve functionality of spaces affected by the systems renewal. The museum plans to renew the exhibits with privately raised funds.

Budget (current working	estimate)	
Federal Capital		\$729M
Trust Funding (exhibi	ts)	\$250M
Funding (federal capital)		
FYs13 – FY17 (plannir	ng/design/pre-constr.)	\$52.0M
FYs18 – FY21 (major r	revitalization)	\$598.0M
FY22 (major revitaliza	ation)	\$56.0M
FY23 (major revitaliza	ation)	\$23.0M
Schedule	% Complete	Timeframe
Planning/Design	100%	FY13 - FY18
Construction	57%	FY18 – FY24
Uncoming Milestone(s)		

Upcoming Milestone(s)

Phase-2 Construction Start FY22 Q3



Oct 2021: Zone-1 South - Gallery 205 "Planets" Exhibit Fabrication

Smithsonian Facilities Suitland Collections Center MSC Construct Pod 6



Location at MSC adjacent to Pod 4

Mission/Scope:

The 2014 Collection Space Framework Plan (CSFP) identified increasing collection storage capacity as a primary goal for the Institution. Constructing the collection storage Pod 6, the last phase of the Museum Support Center (MSC) building project, will be a cost-effective first step in meeting this goal. A feasibility study completed in FY16 envisioned a 10,200 gsm addition on the west side of MSC. The programming will include space for collections from NMAH, NMNH, NPM, HMSG, and the National Gallery of Art (NGA). Sustainability features include a ballasted roof PV system and geothermal grid energy. Design will be completed in Dec 2021 with construction scheduled to begin in July 2022.

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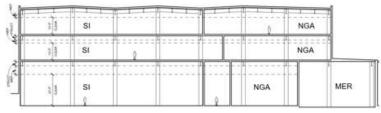
Budget*	\$160.12M
FY 13-16 Federal Funding	\$1.66M
FY 17-18 Federal Funding	\$0.29M
FY 20-25 Federal Funding	\$158.17M

^{*} Smithsonian \$94.27M; National Gallery of Art \$65.85M

Schedule	% Complete	Timeframe
Design	100%	2016 -2021
Construction		2022 -2025

Upcoming Milestones

Final CD Design Submittal	Dec 2021
Solicitation for Construction	Jan 2021





Pod 6 Section (top) and Rendering (bot.) 3 levels - Level 1 is High Bay

Smithsonian Facilities

National Zoological Park Repair GSB Column Capitals



Plan view GSB Building

Mission/Scope

The General Services Building (GSB) at the National Zoological Park (NZP) was constructed in 1975 and provides Zoo offices for various operations and maintenance staff. In addition, the roof also is an auto parking deck for 264 vehicles. The project rectifies inadequate structural support at each column and improves connectivity to the parking deck. The repair also addresses ongoing leaks with new decking, water proofing, insulation, and paving systems to achieve a watertight, durable roof and parking assembly. Demolition of trailers, grading, and landscaping the areas around a gravel lot are required for project and parking staging with some associated swing space. The project is sequenced to allow for limited parking to be always available.

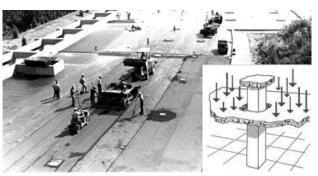
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Budget	\$6.17 M
Design	\$.40 M
Construction	\$5.77 M

Schedule	% Complete	Timeframe
Design	100%	2019 - 2021
Construction	20%	2021 - 2022

Upcoming Milestones

Substantial Complete Jun 2022



Original Construction GSB

Punching Shear Diagram

SF Project Number 1933101



Hirshhorn Museum and Sculpture Garden Revitalize Sculpture Garden



View of upper sculpture allee over revised inner partition wall

Scope

The Hirshhorn Museum and Sculpture Garden infrastructure will be revitalized, and design modifications will be made to suit the current programmatic needs for sculpture display, performances, and public events. Improvements to the landscape planting, major repair or replacement of the deteriorated garden walls, and replacement of waterproofing at the tunnel are required. The tunnel will be re-opened to connect to the plaza. This project will be jointly funded with Federal and Museum funding. The federal contribution to this project is capped at \$20M, per the Decision Memorandum signed in December 2019.

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Budget		\$64.69M
Design		
Federal		\$2.34M
Trust		\$5.33M
Construction		
Federal		\$17.66M
Trust (\$4.37N	1 cash and pledges received)	\$39.36M
Schedule	% Complete	Timeframe
Schedule Design	% Complete 65%	Timeframe
	•	
Design	65% 0%	2022



View of inner partition wall in exposed aggregate concrete from central garden space.