

Social Security Administration



**Hastings Keith
Federal Building
Social Security
Administration**
New Bedford,
Massachusetts

Architect:
Oak Point Associates

Contractor:
J&J Contractors, Inc.

Size:
6,000 sf addition +
10,000 sf renovation

Budgeted cost:
\$2.2 million

Completion:
October 2004

Green roof area:
4,000 sf

The SSA's need for additional ground floor space encompassed the surrounding lawn so a green roof was designed to mitigate stormwater runoff. The insulating value of the green roof and the building envelope, including high-efficiency glazing and calcium silicate masonry units, resulted in a zero net gain for major HVAC equipment in spite of doubling the square footage and occupancy.

2'x4' and 2'x2' "vegetative pavers" contain hearty plants in a low-profile growing medium and the grid system allows easy installation of units and monitoring of roof conditions below.

The layers of a vegetative roof can be seen during installation.

U.S. Border Station



**U.S. Border
Station**

Sault Sainte Marie,
Michigan

Architect:
Ross Barney + Jankowski

Contractor:
Bird Construction USA

Size:
38,750 gsf

Budgeted cost:
\$12.6 million

Completion:
August 2005

Green roof area:
20,000 sf

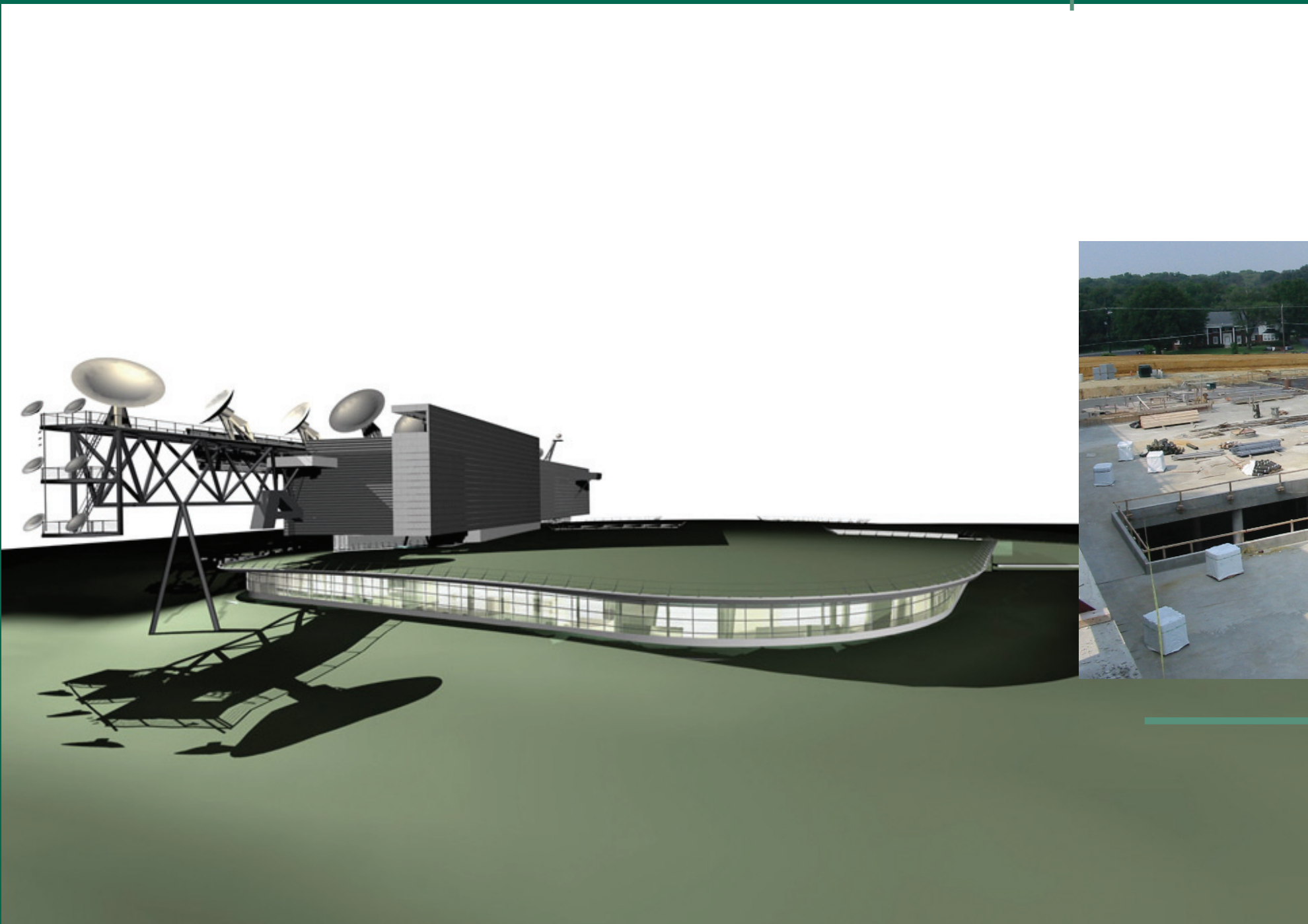
Site constraints along with the complex functions of security and traffic movement through a port of entry led to this green roof solution. The vegetative roof of low maintenance sedums adds insulating value and blends the building with the site. Without a green roof, almost the entire site would be impervious surfaces requiring costly water retention and filtering solutions.

Green

Roof

Technology

NOAA Satellite Operations Center



The NOAA Satellite Operations Center will house current and future environmental satellite operations of national and global significance. GSA is building a new facility that not only enhances NOAA's mission but also expresses the function of the building. The desire to create a low-impact building in keeping with the scale of surrounding structures led to a green roof design that merges with the landscape.

National Oceanic and Atmospheric Administration
Suitland Federal Center
Suitland, Maryland

Architect:
Morphosis/Einhorn Yaffee Prescott

Contractor:
P.J. Dick Inc.

Size:
208,271 gsf

Budgeted cost:
\$61 million

Completion:
September 2005

Green roof area:
146,000 sf

Only 20% of the site becomes impervious, eliminating the need for a water detention pond or increased stormwater piping, while saving thousands of dollars.