

Practical Green

Building Green with GSA

Don Horn, Director of Sustainable Design



Monday, August 7
2:00 – 3:30



Body Shop:
Building
Strategies

- Use all resources efficiently
- Protect the natural environment
- Create a healthy built environment for future generations

Why are we doing this?



Body Shop:
Building
Strategies

- PBS Mission
 - To provide a superior workplace for the Federal worker and superior value to the American taxpayer
- PBS Vision
 - To be the best real estate organization in the world
- Energy efficiency, recycling & use of environmentally sound products make good business sense
- Tenant agencies are asking for healthy work environments



Body Shop:
Building
Strategies

Laws

National Environmental Policy Act, 1969

Clean Air Act, 1970; amended 1990

Resource Conservation & Recovery Act, 1976;
amended 1994

Energy Policy Act, 1992, 2005

Executive Orders

13101 Greening the Government through Waste
Prevention, Recycling & Federal Acquisition

13123 Greening the Government through Efficient
Energy Management

13134 Developing & Promoting Biobased Products
and BioEnergy

13148 Greening the Government through Leadership
in Environmental Management

13327 Federal Real Property Asset Management



Body Shop:
Building
Strategies

- Site: Optimize site potential
- Water: Protect and conserve water
- Energy: Minimize nonrenewable energy consumption
- Materials: Use environmentally preferable products
- IEQ: Enhance indoor environmental quality
- O&M: Optimize operational & maintenance practices

Whole Building Design Guide
<http://sustainable.wbdg.org>

Federal Leadership in High Performance and Sustainable Buildings MOU



Body Shop:
Building
Strategies

- Employ Integrated Design Principles
 - Integrated Design
 - Commissioning
- Optimize Energy Performance
 - Energy Efficiency
 - Measurement and Verification
- Protect and Conserve Water
 - Indoor Water
 - Outdoor Water
- Enhance Indoor Environmental Quality
 - Ventilation and Thermal Comfort
 - Moisture Control
 - Daylighting
 - Low-Emitting Materials
- Reduce Environmental Impact of Materials
 - Recycled Content
 - Biobased Content
 - Construction Waste
 - Ozone Depleting Compounds



Body Shop:
Building
Strategies

- Integrated approach
- Start early
- Identify the issues
- Set goals
- Triple bottom line



Body Shop:
Building
Strategies

Gold

- EPA New England Regional Laboratory, Chelmsford, MA
- EPA Science & Technology Center, Kansas City, KS
- NPS Midwest Regional Headquarters, Omaha, NE
- Potomac Yards I & II, Arlington, VA

Silver

- DOT Office Building, Lakewood, CO
- OSHA Salt Lake Technical Center, Sandy, UT
- EPA Computer Center, Research Triangle Park, NC
- Scowcroft Building (IRS), Ogden, UT

Certified

- SSA Building Renovation, Woodlawn, MD
- SSA Child Care Center, Woodlawn, MD
- U.S. Courthouse, Youngstown, OH
- U.S. Border Station, Sweetgrass, MT
- Metzenbaum U.S. Courthouse, Cleveland, OH



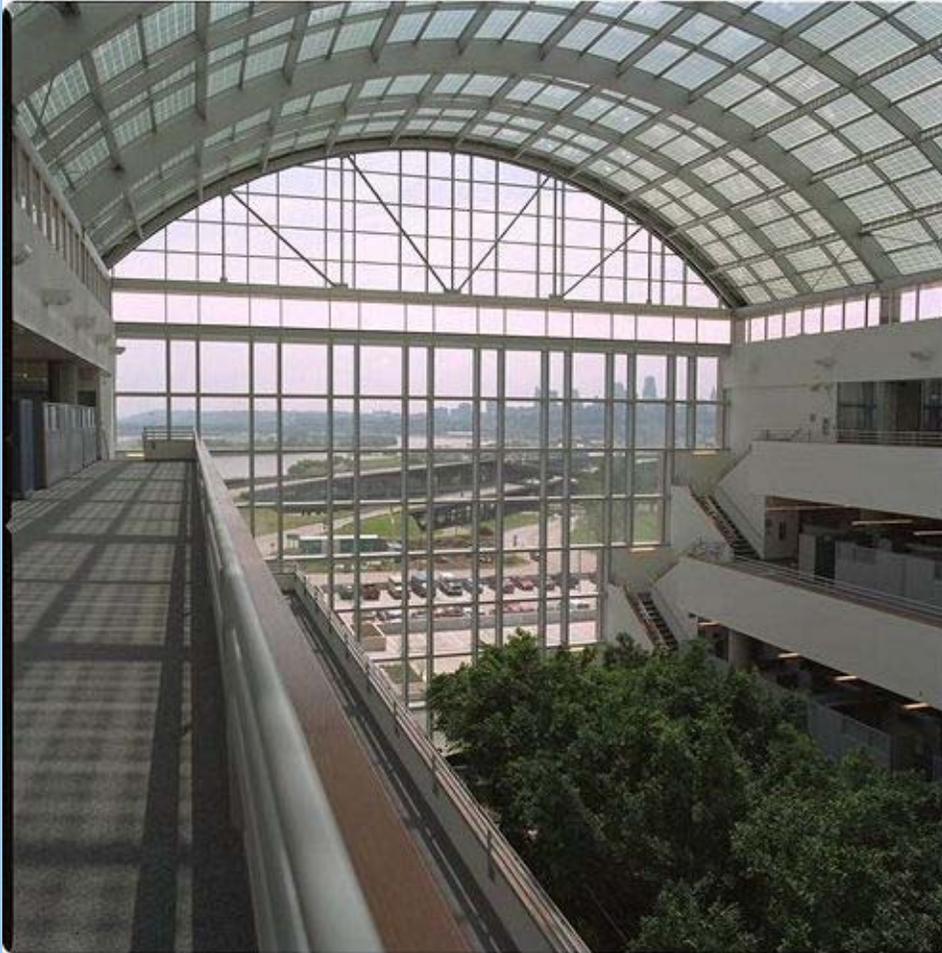


EPA Regional Headquarters Kansas City, KS





EPA Regional Headquarters Kansas City, KS





Alfred A. Arraj U.S. Courthouse Denver, CO



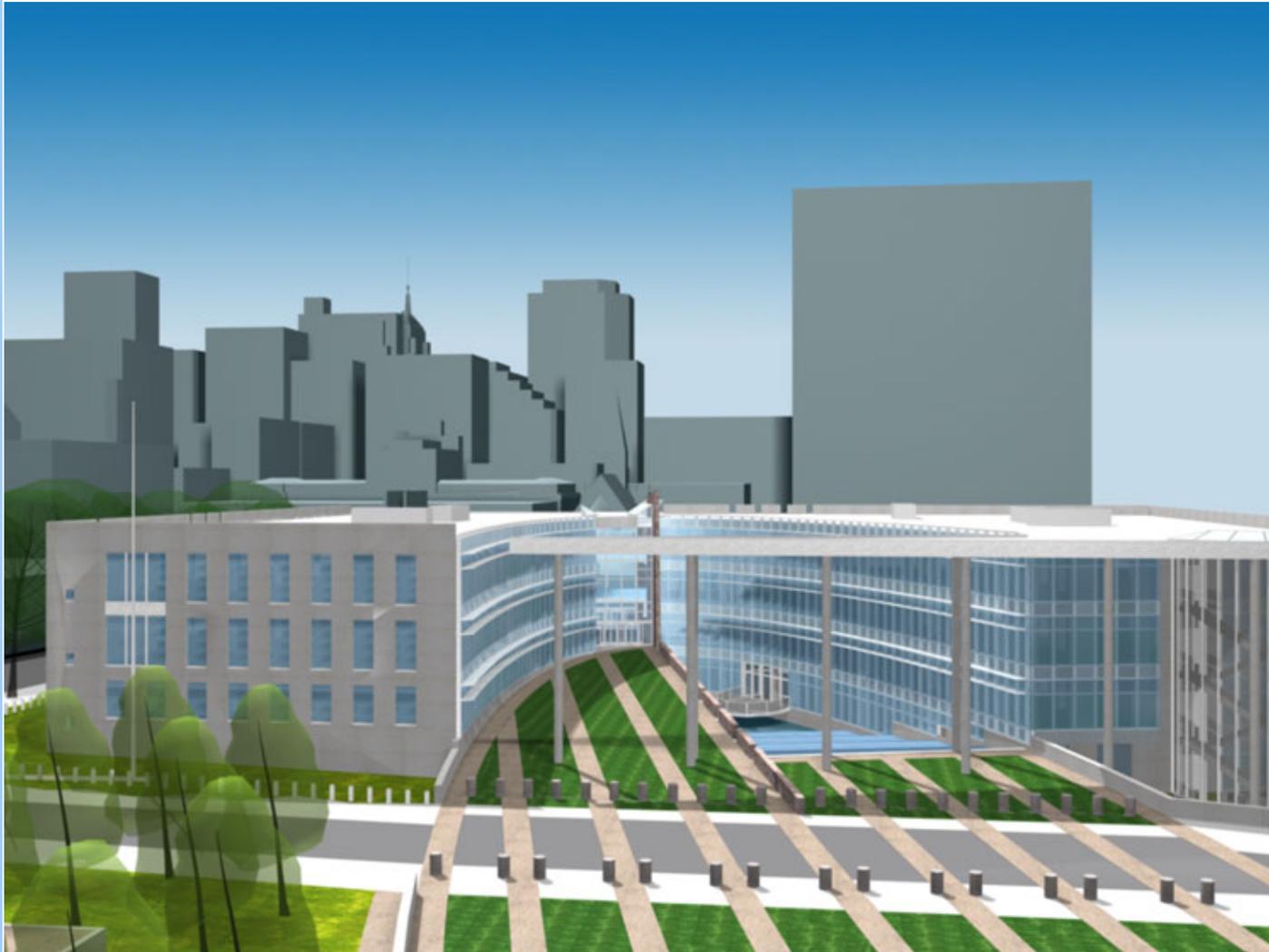


Alfred A. Arraj U.S. Courthouse Denver, CO





Federal Building Oklahoma City, OK





Federal Building Oklahoma City, OK





Federal Building Oklahoma City, OK

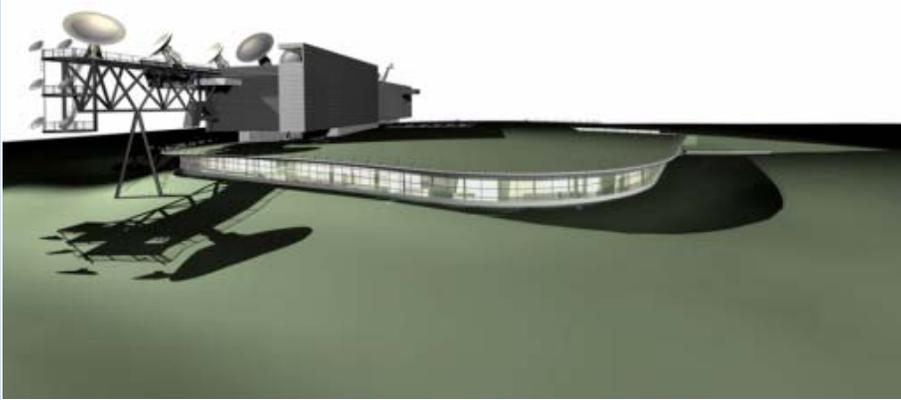


U.S. Border Station Sault Ste. Marie, MI





NOAA Satellite Operations Center Suitland, MD





NOAA Satellite Operations Center Suitland, MD





GSA Global Supply Kansas City, MO





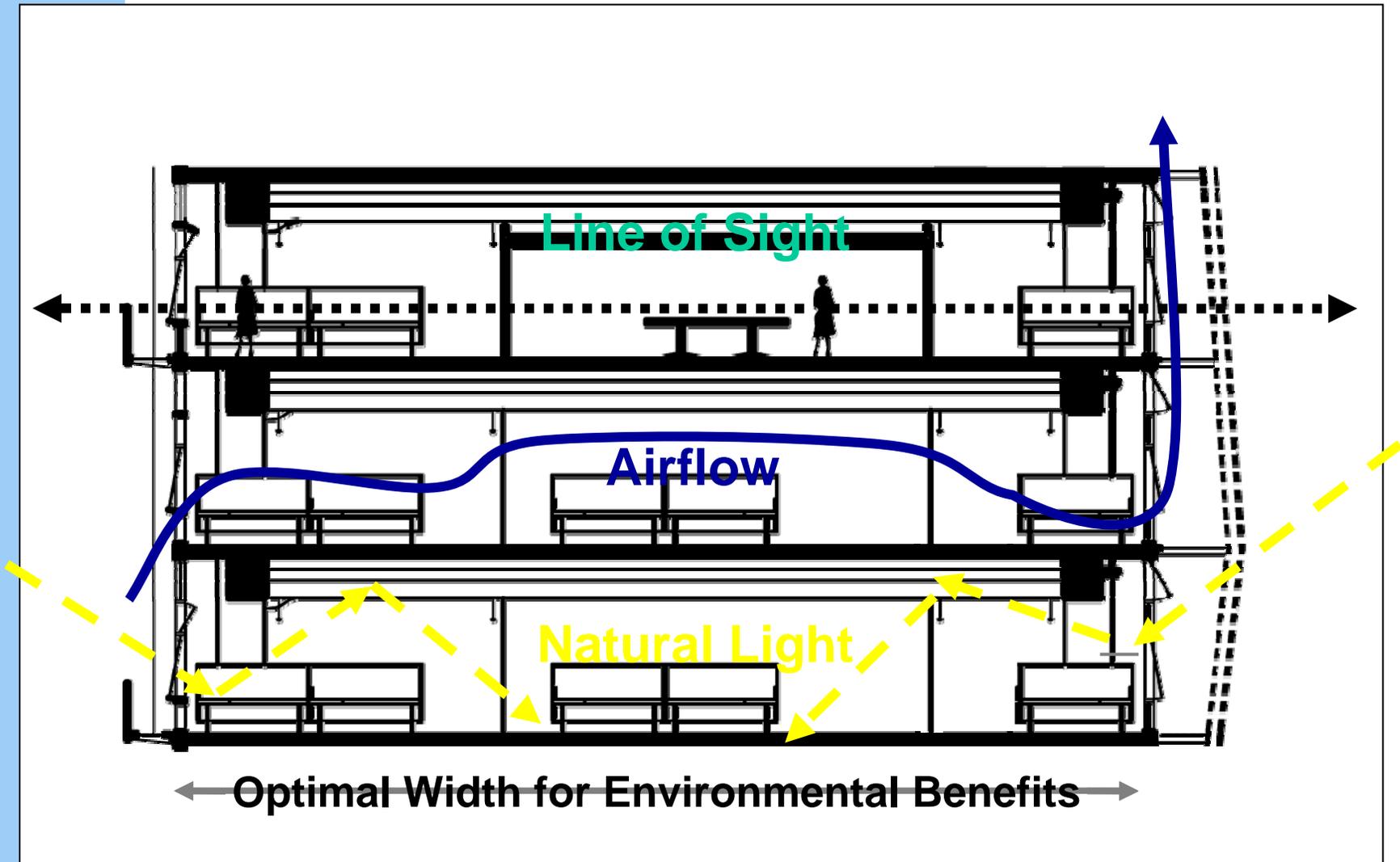
GSA Global Supply Kansas City, MO



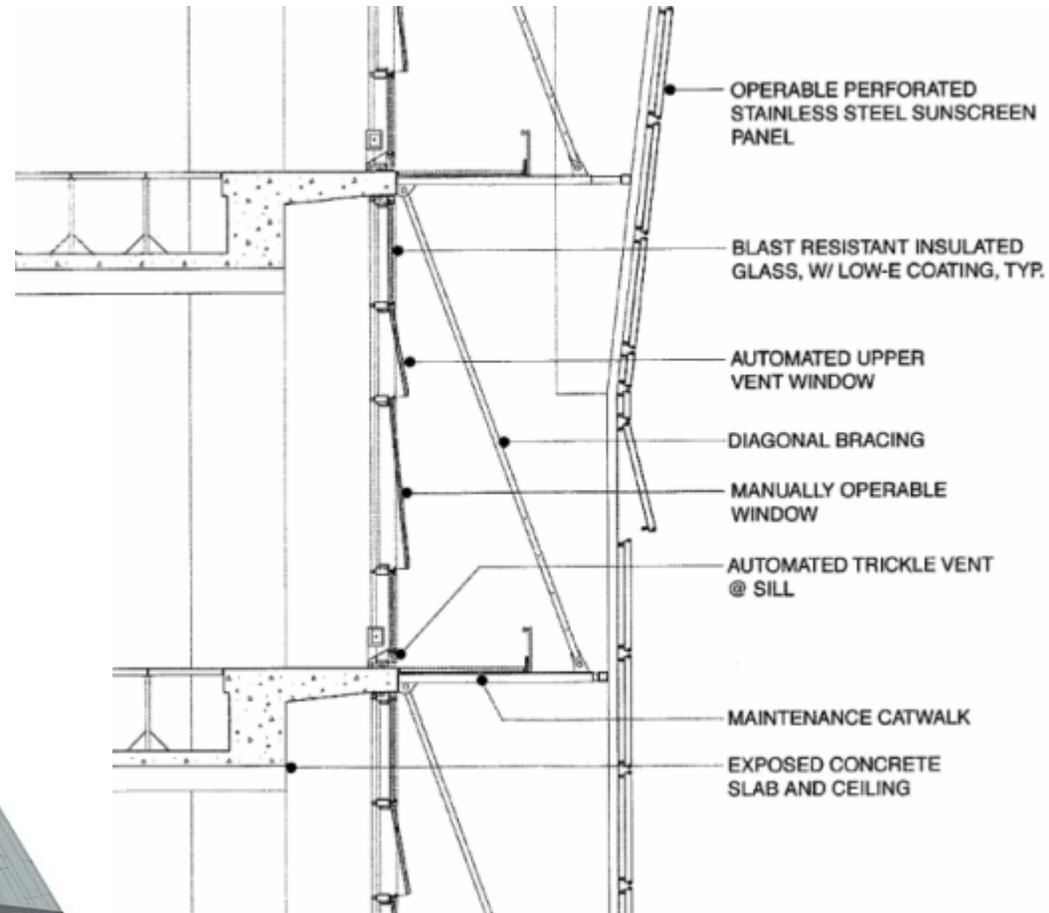
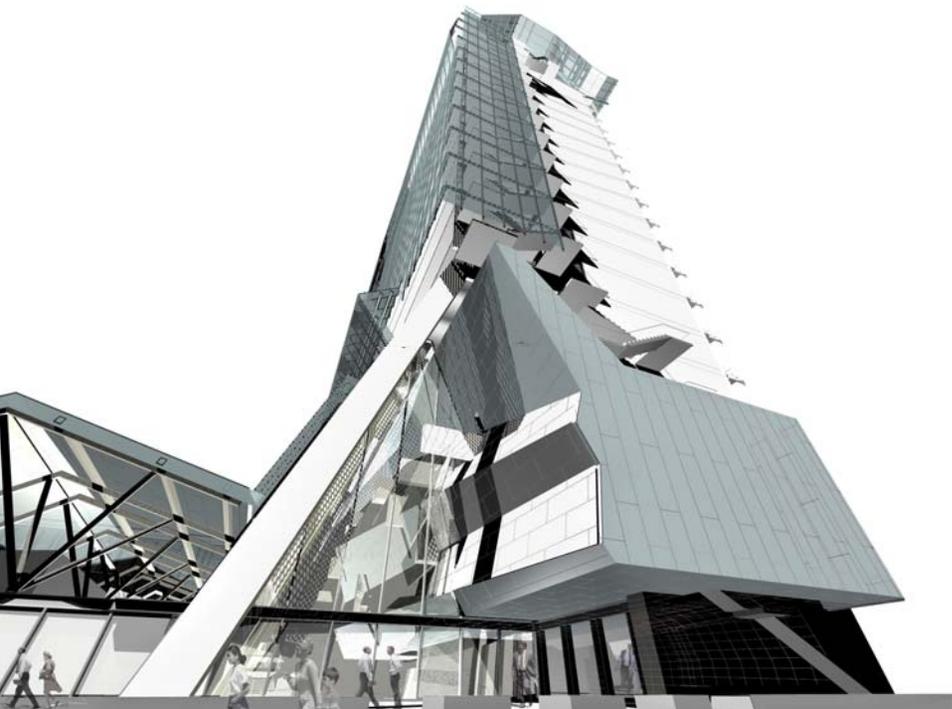


Federal Building San Francisco, CA





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<http://www.gsa.gov/sustainabledesign>

<http://sustainable.wbdg.org>