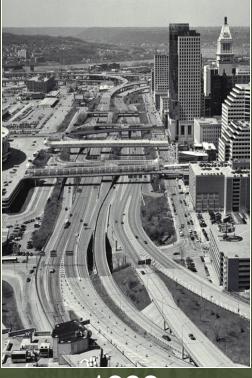
FORT WASHINGTON WAY 2000











2000

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A project managed by the City of Cincinnati with the cooperation of thousands

Project Management Team:

John Deatrick, P.E., AICP, Director of Transportation

Bob Richardson, AIA, *City Architect*

Don Gindling, P.E., *Construction Manager*

Project Management Consultant: Fred Craig, PE

Area Manager, Senior Vice President Parsons Brinckerhoff





FORT WASHINGTON WAY 2000



Project Team:

- Parsons Brinckerhoff Project Management Consultants
- Contributing PB Offices: Cincinnati, Baltimore, Boston, San Francisco, Miami, Tampa, Las Vegas, Denver and Louisville

Other Team Members:

- Balke Engineers
- •BRW
- Burgess & Niple
- Chan Krieger & Associates
- Dan Pinger Public Relations
- •H. C. Nutting Company
- Hargreaves Associates
- Infrastructure Servcies

- JMA Consultants
- KZF Incorporated
- Resource International
- •TEC Engineers
- •U.S. Cost, Inc.
- Vivian Llambi & Associates
- Wallace Floyd Associates
- Wilson & Associates

PROJECT TIMELINE

November 1995

City of Cincinnati requests the Ohio-Kentucky-Indiana Regional Council of Governments (OKI) to conduct a sub-corridor analysis for Fort Washington Way

January 1996

OKI begins Fort Washington Way subcorridor analysis





FORT WASHINGTON WAY 2000 Project Overview PROJECT TIMELINE (continued) January 1997

OKI produces plan for reconstructing Fort Washington Way as a locally preferred alternative to address traffic congestion along Fort Washington Way May 1997

Members of the Fort Washington Way project team meet to plan cooperative effort for accomplishing the work. Public meetings are held to obtain input on the plan





PROJECT TIMELINE (continued) July 1997

Project team presents Fort Washington Way reconstruction plan during a public forum at Cincinnati City Hall

September 1997

First formal design contracts let

October 1997

State of Ohio approves the FWW Major Investment Study and commits \$80 million in project funding





PROJECT TIMELINE (continued)
October 15, 1997
City Council approves total funding package
November 1997

Ohio Governor George Voinovich visits Cincinnati to announce a \$20 million funding advance for the Fort Washington Way project

January 1998

Fort Washington Way Project Design Manual drafted





PROJECT TIMELINE (continued)
April 1998
Value Engineering Workshops held
July 1998

Fort Washington Way reconstruction begins with the first construction contract let on July 2











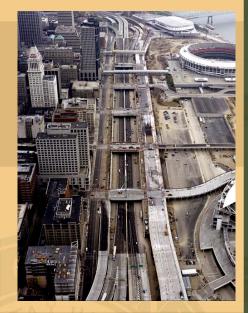


PROJECT TIMELINE (continued) August 1998

Fort Washington Washington detour constructed; all traffic shifted to old eastbound lanes

October 1999

First section of new Fort Washington Way open and traffic shifted to future westbound lanes



FORT WASHINGTON WAY 2000 Project Overview PROJECT TIMELINE (continued) August 2000

Fort Washington Way completed and open to traffic

December 2000

Fort Washington Way dedication ceremony







FORT WASHINGTON WAY 2000 Project Overview PROJECT PARTNERS:



City of Cincinnati



Hamilton County



Ohio Department of Transportation



Kentucky Transportation Cabinet



Federal Highway Administration



Ohio-Kentucky-Indiana Regional Council of Governments



FORT WASHINGTON WAY 2000



FORT WASHINGTON WAY 2000 Project Overview PROJECT GOALS

- Provide safer through and local network roadway for motorists and pedestrians
- Improve local and regional access and re-connect downtown with riverfront
- Provide economic development opportunities by reclaiming highway rights of way

TOTAL COST: \$328 MILLION





BROAD COMMUNITY SUPPORT

- Team of communications professionals developed a strategic communications plan with a comprehensive package of communications tools
- Community support arose from the public's involvement in the decision to do the work as quickly as possible
- Emphasized message that the benefits were worth the wait









SUPPORT FROM COMMUNITY ORGANIZATIONS

- The Greater Cincinnati Convention and Visitors Bureau
- The Northern Kentucky Convention and Visitors Bureau
- The City of Newport, Kentucky
- The City of Covington, Kentucky
- Chamber of Commerce
- The Reds and Bengals
- Cincinnati Business Committee
- Transit Authority of Northern Kentucky (TANK)
- Building Owners and Managers Association

FORT WASHINGTON WAY 2000 Project Overview PROJECT COMPONENTS

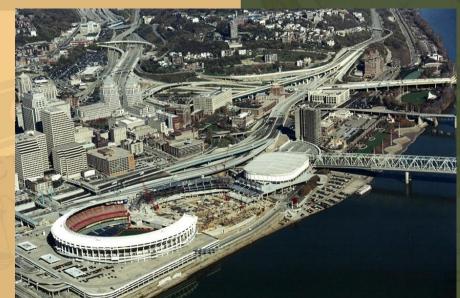


- Reconfiguration of mainline
- Construction of 27 new bridges
- Creation of new landscape boulevard by construction of second street and reconstruction of Third Street
- Reconstruction of Third Street Viaduct





PROJECT COMPONENTS (continued)



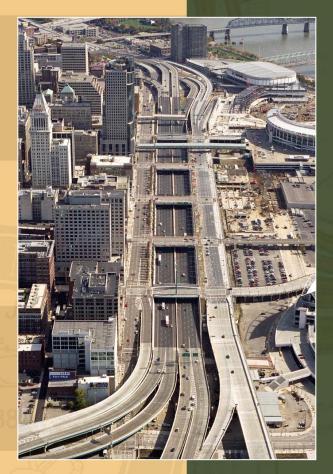
- Relocation of floodwall
- Construction of new riverfront transit center
- Installation of combined sewer overflow mitigation system
- Installation of foundations for future decks
- Fiber optic backbone

FWW Project Facts

- Nearly 230 presentations given to downtown businesses, organizations and parkers to update them on traffic pattern changes
- 500 different highway signs placed in more than 300 locations throughout Cincinnati
- Nearly 70,000 detour maps distributed to area businesses, organizations and parking garages to update visitors and commuters of traffic pattern changes
- Approximately three million pounds of structural steel from bridges and roadways removed and recycled for use in other construction projects
- 4.1 million lbs. of structural steel placed at the Fort Washington Way project, which is 20 times the weight of the Statue of Liberty in New York
- 24,402 cubic yards of concrete placed

OR

- Nearly 130,000 cubic yards of earth moved in preparation for the new Fort Washington Way
- Piles driven a total of approximately 655,000 feet







DEFINING FEATURES

- Detailed Maintenance of Access Plan agreed during the environmental document
- Access maintained through phased and staged fast tracked construction, and with detailed manuals guiding all aspects of project
- Project management structure with unique blending of City of Cincinnati staff with consultant teams





DEFINING FEATURES (continued)

- Innovative materials including stone
 mastic asphalt driving surface
- Bi-state funding accord
- Accelerated time frame
- Heavy emphasis on urban design and landscaping
- Innovative bridge types
- Well financed citizen involvement group
- Constructability and value engineering reviews



THE TRENCH

 Narrowed mainline area, but now with through lane continuity to reduce weaving and merging and improved capacity







• Providing improved access and new front door for city







THE THIRD STREET VIADUCT- CONNECTION TO US 50 ON THE EAST

- Provides dramatically improved traffic capacity to the East
- First use of steel box girder construction in Ohio
- New substructure constructed under old bridge, retaining access







NEW FWW FLOODWALL

- Provides flood protection for new project while freeing 14 acres of land for future development by eliminating earthen levee
- Below grade pump house for highway trench storm water during extreme river flood conditions





RIVERFRONT

TRANSIT CENTER

 Grade separated transit and pedestrian access for major riverfront events

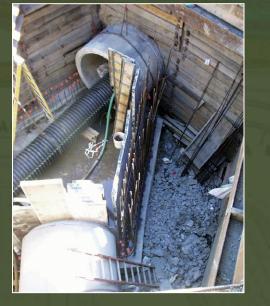


FORT WASHINGTON WAY 2000



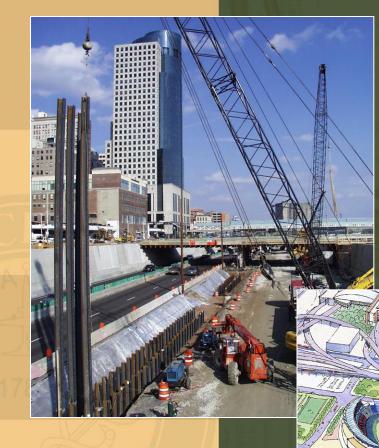
COMBINED SEWER OVERFLOW SYSTEM

- New water pollution mitigation system
- Measurable improvements to Ohio River water quality by reducing overflows to near zero









FOUNDATION PILES FOR FUTURE DECKS

 Allows for the future placement of parks or other public spaces over highway facility



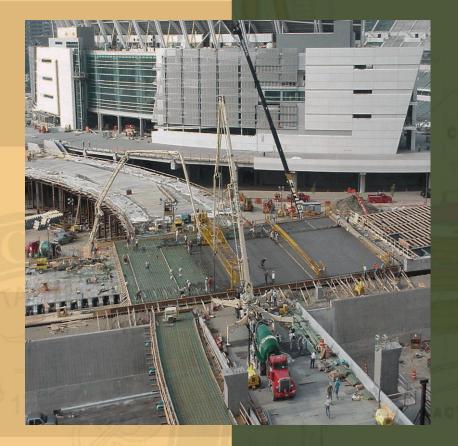


FOSTERED REDEVELOPMENT OF TWO VACANT WAREHOUSES









PROJECT COORDINATION

 Typical example illustrates City contracts for new Second Street (Contract 22a) and the Elm Street Bridge over the FWW trench (Contracts 8 and 17d), and Hamilton County contracts for the Bengals stadium and new Elm Street

FORT WASHINGTON WAY 2000 Urban Design



PROJECT DESIGN MANUAL

- Examined urban design in each aspect of the project
- Produced in conjunction with overall civil engineering design manual
- Controlled the overall project aesthetics
- Captured best value for dollars spent

FORT WASHINGTON WAY 2000 Urban Design





Linked the riverfront to downtown by extending the street grid over the highway.

FORT WASHINGTON WAY 2000 Urban Design



HIGH QUALITY AND VALUE-MAXIMUM IMPACT

- Custom made pre-cast panels
- Unique lighting using standard ulletfixtures
- **Decorative vandal screens**
 - Multi-colored bridge beams



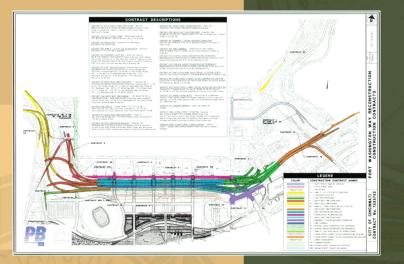


ENVIRONMENTAL DOCUMENTATION FWW CATEGORICAL EXCLUSION

- Document approved in record time
- Model for the Federal Highway Administration for highway reconfiguration
- Concurrent approval by ODOT and the state historical preservation office
- ODOT & SHPO approved on-site archeologist as appropriate mitigation considering site characteristics and construction methodology
- Accelerated OEPA review process







FORT WASHINGTON WAY 2000



THE FWW PROJECT:

- 31 design contracts
- 27 construction contracts
- Work broken down to fast-track design and construction and encourage smaller contractors and minorities to bid
- Phasing and fast-track allowed quick response to changing regional priorities









IN PREPARATION FOR CONSTRUCTION

- Early implementation of comprehensive vehicular and pedestrian way-finding signage system
- Construction of temporary exit ramps to provide alternate access to downtown
- Construction of temporary bridge to maintain access to Kentucky



IN PREPARATION FOR CONSTRUCTION (continued)

- Adaptation of new temporary street on then existing flood levee
- Revitalization of existing groups to insure strong communication networks
- Establishment of web site and listservice









IN PREPARATION FOR CONSTRUCTION (continued)

- Constructed two new temporary off ramps to serve the CBD (central business district), one from I-75 North and one from I-71 South to replace access provided by FWW
- Re-striped two other exit ramps to add lanes

FORT WASHINGTON WAY 2000 Innovative Bridge Types Firsts in Ohio:



- Steel Box Girder
- Cast-in-Place Box Girder
- Concrete Integral Piers











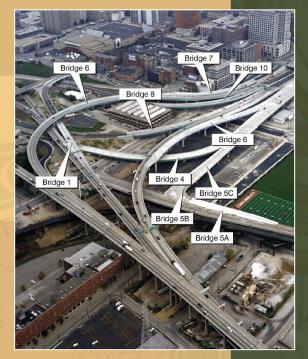




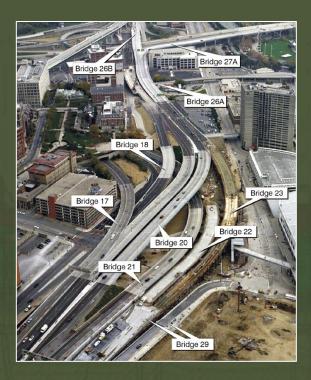
FORT WASHINGTON WAY 2000 *Innovative Bridge Types* **27 Bridges Built In 42 Stages**

- 4 Steel Rolled Beam
- 16 Steel Curved Plate Girder
- 5 Steel Box Girder
- 7 Cast-in-Place Post-Tensioned Concrete Slab
- 3 Cast-in-Place Post-Tensioned Concrete Box Girder
- 1 Pre-Stressed Concrete "I" girder
- 2 Pre-Stressed Concrete Adjacent Box Beams
- 4 Cable-Stay Pedestrian Bridges

FORT WASHINGTON WAY 2000 Innovative Bridge Types











Innovative staged construction techniques used to maintain traffic while building bridges

PROCUREMENT MANUAL

- Assembled a manual of procedures combining federal, state and local requirements
- Established expedited prequalification process including MBE, WBE, DBE, SBE vendors, as the laws changed during the project





PROCUREMENT MANUAL (continued)

- All contracts locally advertised and bid by City using ODOT procedures
- Established a contract compliance officer on the job site
- Maintain pace of construction during law suite on MBE regulations and provided basis of consent decree





AGGRESSIVE OUTREACH TO POTENTIAL BIDDERS AND SUBCONTRACTORS

- Contractors encouraged to use minority contractors, pre-approved sub-consultants and suppliers
- Early notification to contractors of upcoming bids, including postings on the FWW Web site and pre-bid seminars
- Established a comprehensive data base of vendors to assist bidders
- MBE/WBE/DBE/SBE workshops held to encourage participation





THE BIDDING PROCESS

- Bid dates posted on the project Web site
- Bids advertised in local newspapers, ODOT and city of Cincinnati bulletins
- Bid many items lump sum to simplify bid and award process





THE BIDDING PROCESS (continued)

- Answers for pre-bid questions available through e-mail
- Contracts went from bid to award in one week or less
- OCIP (owner controlled insurance program) reduced bickering over damage and field claims





FORT WASHINGTON WAY 2000 Bidding and Construction Management COST/CONTROL PROCEDURES

- Value engineering workshop sponsored by ODOT reviewed entire project design and finalized civil and urban design manuals
- Pre-approved design manuals simplified preparation of plans and specifications
- Preliminary constructability reviews by consultant, city, and state team reduced construction costs and enabled phased construction

COST/CONTROL PROCEDURES (continued)

- Contingency amounts added to contracts to enable field decisions to minor problems and focus on cost containment
- Innovative change order approval process using monthly FWW Construction Board to provide oversight and hear claims





MEETING THE SCHEDULE

- Conventionally bid construction contracts with liquidated damages
- No incentives
- Master schedule and traffic management defined early and included in project manuals bid documents





FORT WASHINGTON WAY 2000 Public Involvement



COMPREHENSIVE OUTREACH

- Established graphics standards for all materials
- Revitalized existing regional coordination committees
- "Connection to the Future" newsletter distributed to project stakeholders

FORT WASHINGTON WAY 2000 *Public Involvement*

Outreach (continued)



- Over 200 meetings held prior to start of construction to establish dialogue
- More than 400 community meetings held throughout project construction to maintain contact

 Distributed more than 200,000 motorist and pedestrian detour maps





FORT WASHINGTON WAY 2000 Public Involvement OUTREACH (continued)







- Regular events to mark significant project milestones and maintain media contact
- Regularly scheduled meetings with community support groups
- Suggestions and comments taken through telephone, web sites, and email







FORT WASHINGTON WAY 2000 Public Involvement OUTREACH (continued) Innovative Tools included:

- Roving information display
- 'Connection to the future' video
- <u>www.FWW2000.com</u> with three live cameras
- Interpretive site observation display
- Community events
- Traffic alert e-mail messages

FORT WASHINGTON WAY 2000 *Public Involvement*



AGGRESSIVE MEDIA RELATIONS

- Daily traffic updates
- Regular updates and tours of project site
- Open lines of communication
- Regular feedback sessions with police, fire and traffic helicopters





FORT WASHINGTON WAY 2000 *Awards*

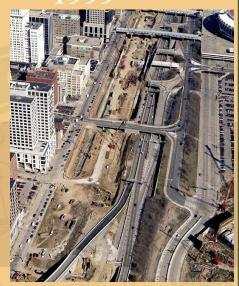
- ACEC- American Council of Engineering Companies of Ohio 2002 Engineering Excellence Award
- CMAA Construction Management Association of America - 2001 Construction Management Project Achievement Award
- ARTBA American Road & Transportation Builders Association - 2000 PRIDE in Transportation Construction Award -
- ASCE Ohio OCEA American Society of Civil Engineers - Ohio - 2001 Outstanding Civil Engineering Achievement Award
- Parsons Brinckerhoff Project of the Year 2001
- SEGD 2001 Award Outstanding Project from Society of Environmental Graphic Design
- Crystal Award for Fort Washington Way "Connection to the Future" Video
- ICMA 2001 International City Council Management Association of America Award
- IRF 2001 IRF Global Road Achievement Award -International Road Federation - Honorable mention
- WSO 2000 Concerned Company/Organization Award, World Safety Organization





FORT WASHINGTON WAY 2000

March 1999













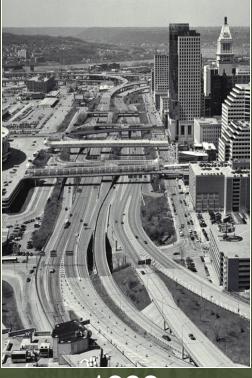
August 2000

November 1999 May 2000

FORT WASHINGTON WAY 2000











2000

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A project managed by the City of Cincinnati with the cooperation of thousands