



U.S. Department of Transportation
Federal Transit Administration

art in **transit**
... making it happen



table of contents

Art in transit... making it happen

Wendy Feuer, *Project Director*

Director Arts for Transit and Facilities Design

New York State Metropolitan Transportation Authority

**Cover: Overhead
catenary lines
of a light-rail
system.**

**Opposite:
Detail, artist
designed grille,
New York City.**

- 2 Letter**
Gordon J. Linton, Administrator, Federal Transit Administration
- 3 Introduction**
Janette Sadik-Khan, Associate Administrator, Budget and Policy
- 4 Communicating with the community**
San Francisco: Stations win approval by reflecting their surroundings
- 8 Building ownership; building ridership**
Corpus Christi: Residents cover bus transfer centers with thousands of unique tiles
- 10 Taming construction disruption**
Portland: Barricades are turned into giant canvases
- 14 Connecting community to rail**
Miami: Walkway offers catalyst for neighborhood revival
- 16 Making an impact**
Los Angeles: Creating a place for art on the Green Line
- 20 Bringing residents into the process**
Boston: Writing, photography, and history programs document community transformed by intermodal project
- 22 Designing as a team**
St. Louis: Artists help shape new light-rail system
- 26 Moving forward with style**
Seattle/King County: New buses look good, run well, and don't break the budget
- 28 Grassroots interventions**
Seattle/King County: 425 bus shelters are a welcome sight
- 30 Softening the hardening**
New York: Artist designs floor-to-ceiling grilles for 467 subway stations
- 34 Appendix A**
FTA Circular 9400.1A Subject: Design and art in transit projects
- 36 Appendix B**
Case study credits
- 38 Appendix C**
Art in mass transit systems
- 40 Acknowledgments**

MASS TRANSIT, LIKE SO many other industries, is using new technologies to achieve efficiencies. Train cars reduce energy consumption by channeling unused electrical energy back into the third rail. Buses run on various fuels, such as compressed natural gas, methanol, or ethanol, to decrease air pollution. Passengers use magnetic fare cards, which improve access to trains and curb fare evasion.

But to provide the quality transit service necessary to attract new riders requires more than innovations in technology. Passengers must feel comfortable and secure in our facilities—and they will if the design is attractive.

While transit plays a critical role in making communities more livable, it has not always been welcomed by those it seeks to serve. Transit services must be a positive force in neighborhoods if they are to be accepted. It is no surprise, then, that transit operators are increasingly concerned about the quality of the stations, bus stops, trains, and buses where people spend their time either waiting or riding. Artists can play a unique role in this search for quality, as the case studies in this book show. Artists can add value to mass transit's primary goal of building ridership. The FTA encourages agencies to pursue art and design excellence in their systems for these reasons.



Gordon J. Linton
Administrator, Federal Transit Administration



Earlyn Tomassini, Tempe, Arizona



Senior/Desterle Architecture + Art, Apache Boulevard,
Tempe, Arizona



Benson Shaw and Clark Wiegman, Olympia, Washington



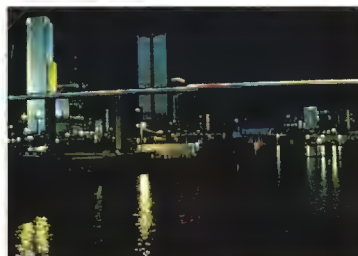
Detail, Joyce Kozloff, Humbolt Hospital Station, Buffalo, New York



Stephen Antonokos, Exchange Place, New Jersey



Pierre Matisse, Kendall Square Station, Cambridge, Massachusetts



Rockne Krebs, Miami, Florida

THIS BOOK IS not just about art and quality design in transit systems. The ten cases included here are remarkable because they illustrate the myriad ways in which transit agencies have engaged artists, civic leaders, community residents, and businesses in changing the way transit vehicles and facilities are designed.

While it may seem burdensome to bring yet another player onto the design and construction team, evidence shows that the initial investment yields permanent benefits. Art projects do much more than add an essential human dimension to transit—they assuage community concerns about the disruptions of transit construction, improve passenger comfort and safety, and reinforce the spirit and identity of cities and towns.

Transit agencies have more than fifteen years' experience in developing and refining art programs, some with FTA funds and some with local and private dollars. At least thirty agencies around the country have embarked on art projects or programs. Each agency has a good story to tell, and we wish we could have related more of them.

We believe that the projects profiled in this book can serve as models for agencies that are planning new transit investments. We hope that this booklet will inspire those who care about transit, art, and their communities.

Janette Sadik-Khan
Associate Administrator, Budget and Policy

communication

San Francisco: Stations win approval by reflecting their surroundings

WHEN A ROUTINE light-rail station rehabilitation project bogged down because of community opposition, San Francisco's Municipal Railway (Muni) turned to a pair of artists who not only broke the impasse but also designed an eye-catching addition to the city's landscape.



19th Avenue platform and canopy. Opposite: An undulating canopy reflects the surrounding hills.

Muni's project seemed straightforward enough—rebuilding platforms at two stations in the Lakeside district so they would be wider, safer, and in conformance with Americans with Disabilities Act requirements, and adding a pocket track on which trains could lay over.

But several factions in the community circled in opposition: students and officials at nearby San Francisco State University (SFSU), the manager of an adjacent shopping mall, civic leaders in the surrounding neighborhood, senior citizens, and teachers at a local school. They came with an earful of concerns—Muni's poor track record in maintaining facilities, the inconvenience construction would create, and the visual impact of the new platform and the trains that would park near the station.

Muni had hit a dead end. Then it asked San Francisco's Art Commission, which manages the city's percent-for-art program, for help. (The city's art program only covers buildings, so the platform project was not required to include public art.)

While Muni's offer was startling—get the community behind the project, and we will support whatever design you come up with, as long as it can be built safely and maintained easily—the conditions the agency set were formidable. Only \$100,000 had been budgeted for each platform's shelter and amenities. And Muni gave the Art

with the community





The station is maintained by the adjacent university. Opposite: The station design makes waiting more pleasant.

Commission barely two months, from June to August 1993, to turn the entire project around.

To save time the commission suspended its normal artist selection process, which includes advertising projects and peer reviews of proposals. Instead, commission staff nominated Leonard Hunter, head of SFSU's sculpture department, and Sheila Ghidini, a visiting professor there, for the job. The commissioners, pleased that Hunter and Ghidini had connections to the community, approved.

Hunter and Ghidini held weekly meetings with the various groups opposed to the project. They began with a presentation that surveyed boarding platforms used in other transit systems, explored the area's architectural history, and reviewed the history of transit in that part of the city. They fostered a discussion about the community's attributes and its most recognizable visual characteristics.

Then the artists helped establish the process by which design decisions would be made, a simple majority vote. They helped the community define basic criteria for the design of the stations and identify issues of concern, such as the impact of sunlight patterns and prevailing winds.

Week after week, the artists returned with ideas, explaining how the design responded to the group's concerns. Covering the walls with tiles, for example, would make it easier to clean graffiti. An undulating canopy would reflect San Francisco's hilly cityscape and anticipate the sun's movement. This patient design process broke the logjam. The artists won the group's trust and their proposals won the community's support.

Other problems loomed. The cost of the canopies, seating, lighting, and other amenities was now estimated at \$600,000 per platform. In August 1993, when preliminary designs were complete, the Art Commission applied through Muni for Intermodal Surface Transportation Efficiency Act (ISTEA) enhancement funding. That October, the commission was told the project would likely be given \$400,000,

which would cover much, but not all, of the gap.

The Public Utilities Commission (PUC), which oversaw Muni and had to approve the project, was unaware of this design process and was stunned by the new and different look that was proposed. The project stalled again while politicians debated issues of neighborhood equity and design precedents. Now the same community that had been resistant to Muni came out in droves to support the project. Ultimately, the PUC increased its funding to \$200,000 per canopy and the city agreed to provide the required match for the ISTEA money from transportation sales tax revenues.

The next snag occurred during construction. The artists had developed a conceptual design, but Muni asked its in-house engineering staff to prepare construction documents. The Art Commission insisted the artists be given oversight, but there were disagreements between the artists and engineers over construction details. Ultimately, during construction, costly change orders were issued to undo unnecessary structural work.

The stations, opened for service in November 1994, are clearly some of the most distinctive features of San Francisco's transit landscape. There is no better evidence of the community's support than SFSU's agreement to maintain the station near its campus, at a cost of \$50,000 per year. As a result, the station is free of ads, adorned with flower boxes and announcements about cultural events on campus.



LESSONS LEARNED

- Early in a project, establish liaison with all parties that will have to approve the project.
- Be flexible in the process used to select artists; consider the timing and political demands of the situation.
- For collaborative design projects, involve artists in all aspects of the work, from preparing specs and construction documents to reviewing mock-ups and attending construction meetings.
- Listen to the community; give people background so they can serve as educated participants.

building ownership

Corpus Christi: Residents cover bus transfer centers with thousands of unique tiles

Below: Port Ayers transfer center. Right: Staples Street transfer center. Opposite: Customer sits in front of vivid tiles that distinguish the Port Ayers transfer center.



ORDINARILY, BUS TRANSFER centers are forgettable, much-maligned places, where riders get off one bus and get on another, hopefully without waiting too long. But Corpus Christi's recently created Regional Transportation Authority (RTA) has made its transfer centers key elements of its public image and vital agents in attracting riders.

The agency called on residents to help with decorative art projects that are integral to the design of two new transfer centers, one downtown and one in a largely Hispanic neighborhood. The result is a pair of welcoming, comfortable places to catch or change buses, a strong sense of community ownership of these important elements of a growing system, and a healthy dose of good publicity.

The Port Ayers and Staples Street transfer centers are decorated with nearly 3,000 vivid ceramic tiles designed by local residents. The colorful tiles, which depict geometric shapes, sea life, self portraits, and pictures of pets, adorn the bases of the buildings, the columns that support the station canopies, and such landscape elements as

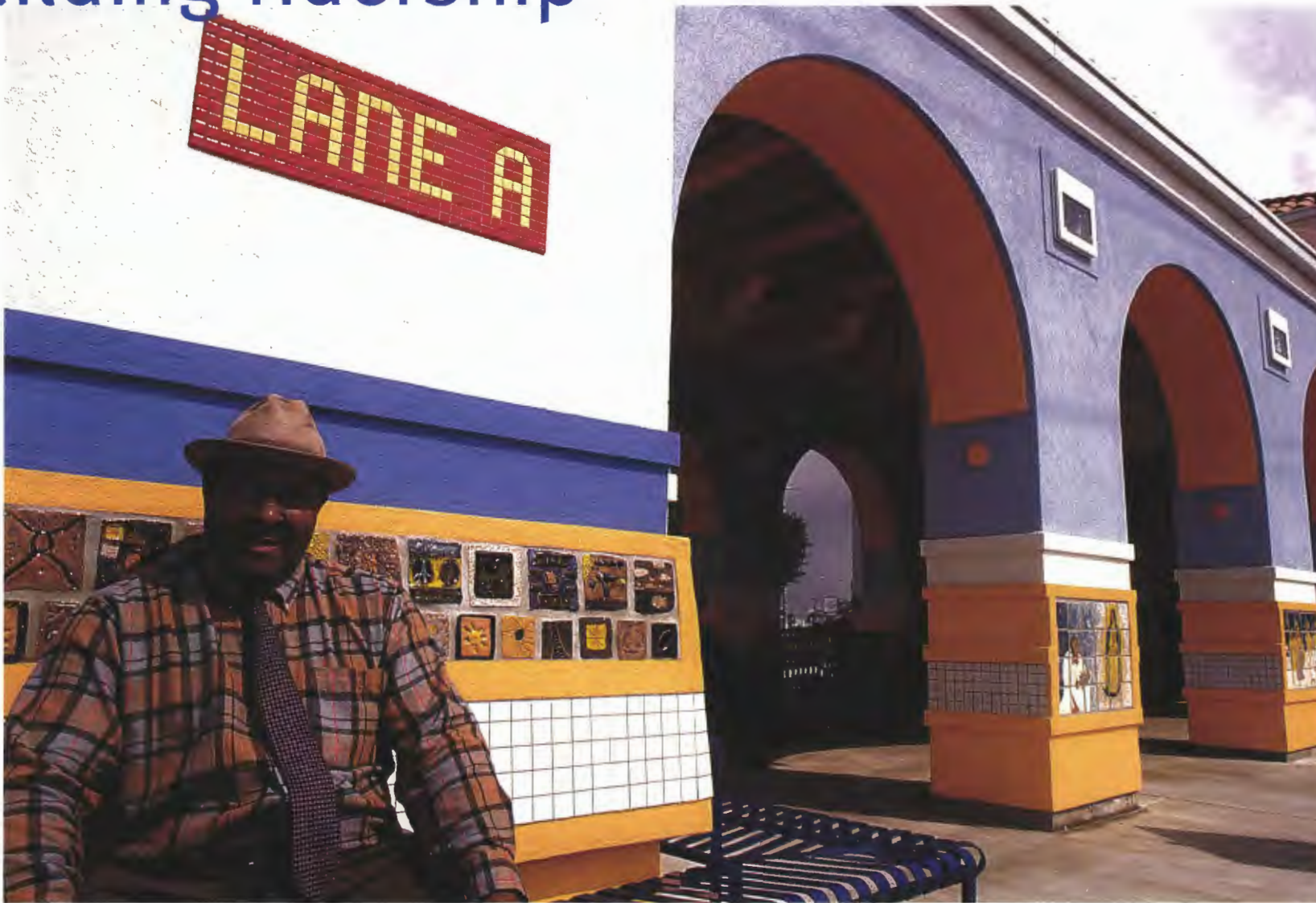
planters. RTA's system, launched in 1986, serves about 18,000 riders a day, 3,000 of whom use Staples Street Station and 1,200 of whom use the Port Ayers transfer center.

The tile projects proceeded concurrently with the design and construction of the transfer centers. The agency contracted with local arts organizations to coordinate the tilemaking and worked with the stations' architects to identify surfaces on which the tiles could be mounted. Local artists hosted work sessions throughout the city—inviting members of the public to try their hand at painting tiles and to leave something for posterity.

The combined cost of the tile projects was \$45,000; the total cost for both stations was \$1.5 million. (The FTA funded 80 percent of the station costs; the tile projects were paid for entirely by local funds.) This is almost a third more than plain tiles would have cost, but transit officials say the price was worth it, especially for the riders—who delight in finding the tiles that they themselves created and in discovering the imagination of their fellow Corpus Christians.



building ridership



LESSONS LEARNED

- A new bus system must not only provide efficient transportation, but also create places that make using transit pleasurable and establish a positive profile in the community.
- Choose outside consultants that either have or can build strong relationships with communities.

taming construction

Portland: Barricades are turned into giant canvases

PORTLAND, OREGON, IS known for innovation in planning, from its urban growth boundaries to its downtown transit mall—and the new Westside MAX light-rail extension is no exception.

Progress always seems to come with a price, however. Construction of an underground station on the Westside line spelled trouble for five large cultural institutions whose activities would be affected by noise, dust, blasting, and the loss of 400 parking spaces.

But the station designers and a team of artists, collaborating to identify permanent public art opportunities along the Westside line, came up with an innovative temporary project that makes even the

construction site worth a visit. They urged Tri-Met, the regional transit agency, to turn the 1,000-foot long, 12-foot-high wooden construction barricade (originally designed for noise abatement) into an unusual and sizable canvas for original paintings.

The MAX Art Advisory Committee, the citizen-based policy and review body that oversees Tri-Met's art program, committed \$36,000 for artists' stipends for the fences project (funds for materials and a catalogue came from private contributions). Tri-Met art program staff asked the Portland-based Regional Arts and Culture Council (RACC) to coordinate the project and hired local artist Kristy Edmunds to curate it.

Drawing for one of the sixteen murals at construction site. Opposite: Artist adds color to outline.



disruption



**LESSONS
LEARNED**

- Art projects can cultivate an agencywide attitude of creativity.
- Good relationships between art staff and other agency staff can be helpful for building bridges to public constituencies and contractors.



The finished mural.
Opposite:
Painted barriers circle the construction site.

Groundwork for the fence project began in 1992 and was facilitated by Tri-Met staff members who had good relationships with both the contractor and the five institutions. The art project was incorporated into the plans for the construction site even before the station contract was bid; specifications included appropriate treatment for fence surfaces, construction of a mixing station and storage shed, and requirements for electricity, water, security, and traffic control.

The contractor was most concerned about safety and liability. Advance arrangements kept the artists who were painting the access gate and trucks rumbling in and out of the site from interfering with each other. And RACC hired an on-site coordinator who worked to ensure the two weeks of painting went smoothly.

In fall 1994, artists were asked to submit letters of interest. Out of two hundred responses, seventeen artists were selected, ranging from some whose careers were well established to some who had never had a public commission before. During the winter, the artists worked with Edmunds to develop their concepts, which were reviewed by the Art Advisory Committee and a committee of representatives of the five institutions near the site.

The fence went up in late 1994 and painting was scheduled for May, 1995, to avoid Portland's rainy winter weather. It was not an easy job. The artists had to work on site, painting the already constructed wall while crowded into an eight-foot-wide space separated from busy streets by concrete barriers. To minimize interference with construction, the painting had to occur within a two-week time frame, leaving little room for rain delays. The artists were given only five colors to work with (primary colors, white, and black); they had to



mix to make other colors. (The paint was high quality latex house paint, which research showed would hold up as well as oil paint.)

Both the artists and the weather rose to the occasion. The artists incorporated elements from the site into their designs, improvised tools to deal with the scale of the fence and took advice from passersby; the weather was warm and sunny. The biggest problem was that the paint was used up more quickly than expected; by the second day, project coordinators realized there wouldn't be enough and rushed to a home repair store to buy more.

Altogether, the artists produced sixteen paintings, ranging from 44 feet to 144 feet long and representing a wide range of styles. Angela Medlin's stylized figures of African Americans depict unity among family and friends. Lucinda Parker's "Tree Leaves" depicts the shape of leaves found near the site and contains the names of Oregon trees. Manda Beckett's "Traffic" is a movement-filled cityscape that encompasses many types of transportation.

Thousands of people see the paintings every day, and many of them react with astonishment. "We're used to seeing advertisements or graffiti outdoors," curator Edmunds remarked. "We're presenting something on a large scale that isn't a billboard."

This inexpensive, easy-to-administer project is likely to pay long-term dividends for Tri-Met. The fence project managed to build good will with a community adversely affected by transit construction and to generate positive attention. In fact, the paintings—scheduled to be up for almost two years, until work is finished in 1997—might outlive the construction project. Local groups have offered to find new sites for the paintings after the barricades come down.

- Cultivate contacts with art organizations and professionals who can expand your agency's capacity to undertake special projects.
- Plan ahead so so your project is part of relevant bidding documents and contract negotiations.
- Keep an open attitude to unconventional venues for art projects.
- Simple, easy-to-administer projects can generate as much interest and attention as complicated ones.

connecting.com

Miami: Walkway offers catalyst for neighborhood revival

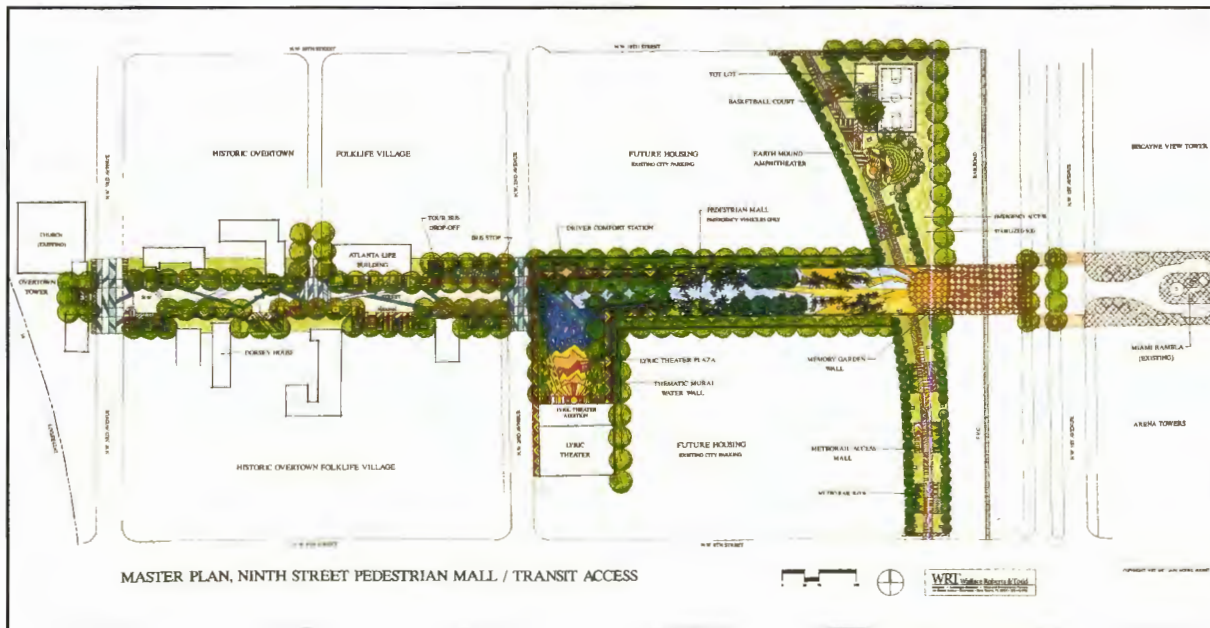
MIAMI'S METRORAIL SOARS above the Overtown neighborhood with a marked indifference, just like the railroad and expressways that cut Overtown off from the rest of the city. But a colorful new pedestrian walkway promises to bring passengers from the local Metrorail station into a revitalizing neighborhood, while celebrating the history of

Overtown and the African Americans who settled it.

The pedestrian walkway, which runs for two blocks under Metrorail's elevated structure, connects the station with a pedestrian mall that leads into Overtown and will anchor new development. It is paved with vivid concrete blocks whose abstract patterns recall traditional African kente cloth weaving; a set of ten bronze medallions embedded in the main plaza express themes in the neighborhood's history.

The project was conceived in a 1984 plan for the area but didn't get underway until FTA funding of \$1.89 million came through in 1994. It was built on a fast-track schedule, only four months from design concept to ribbon cutting, so it could be ready for the Summit of the Americas in 1994.

The walkway leapt hurdles that often stall projects or escalate costs. Numerous agencies worked together smoothly



Master Plan Ninth Street Pedestrian Mall. Opposite: Rail links Overtown neighborhood to Miami and the pedestrian mall links the community to rail.

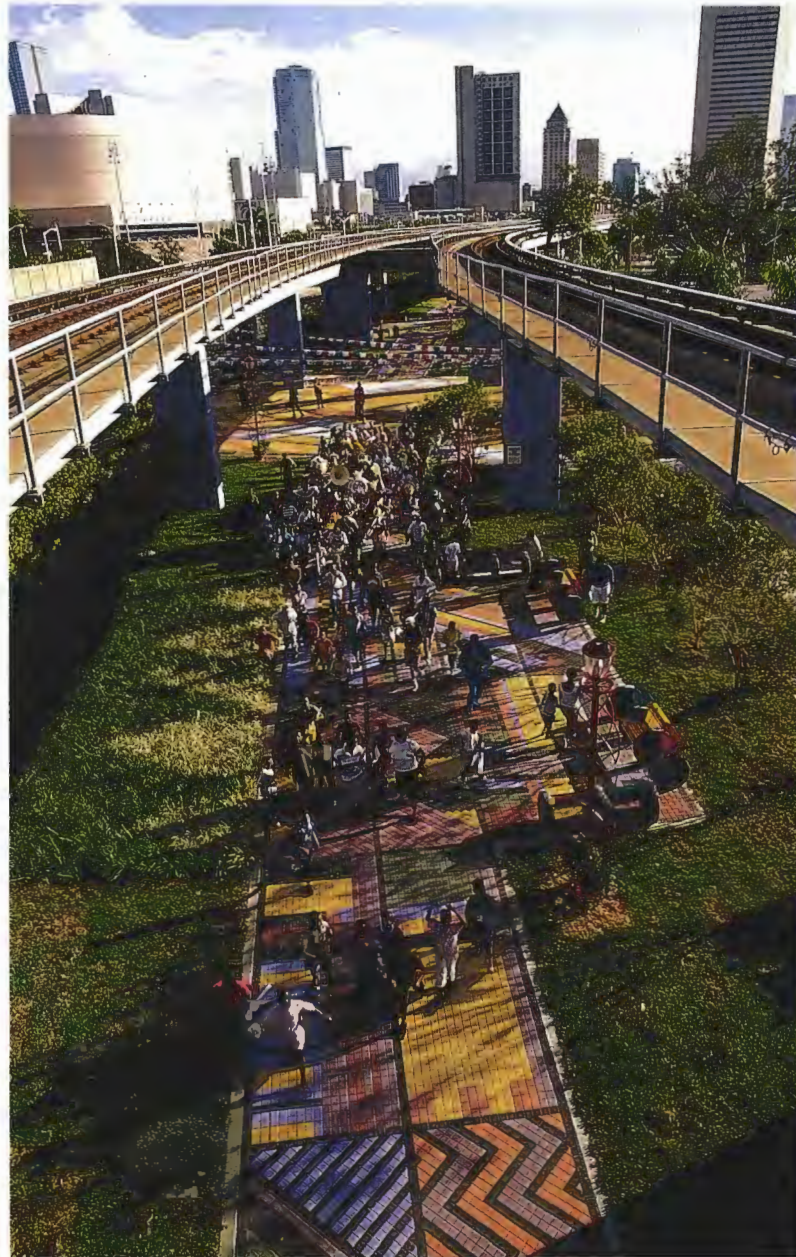
munity to rail

because each had a specific role and because political leaders made the project a clear priority. The Metro-Dade Transit Agency applied for the funds, Dade County Art in Public Places coordinated the artist selection, the county Department of Facilities and Development Management acquired the land, and the county Public Works Department managed design and construction. The city of Miami maintains the walkway.

Other issues had to be resolved. The project's community advisory board was hoping to create a monument to individuals and institutions important to Overtown's past; Miami artist Gary Moore was seeking fresh interpretations of African cultural history. Moore's patience in discussing his kente cloth design and his proposal for the medallions eventually won over the board. Moore and landscape architect Gerald Marston then helped the contractor devise a simple, efficient technique for making the multi-colored pavers.

Today the walkway and mall host lively street fairs and farmers' markets, and hopefully will catalyze Overtown's more ambitious plans. These include residential and commercial projects and a tourist attraction that would depict Overtown in the early twentieth century, when it was a self-sufficient African American community.

This sensitive pedestrian infrastructure offers new hope for neighborhood improvement by tying transit to the community. The facility with which the project was completed is a model for the cooperation necessary to make long-term, complex redevelopment projects work.



LESSONS LEARNED

- Identify issues where interagency cooperation is needed and pave the way in advance of the design and development process.
- Facilitate communication between designers and contractors to generate solutions to fabricating difficult or unique components.
- Strong connections from transit systems to the neighborhoods they serve can stimulate the neighborhood economy and improve use of transit systems.

making an impact

Los Angeles: Creating a place for art on the Green Line

Proposal for wire-mesh sculpture that relates to defense and aerospace industries located near station.
Opposite: Phrases carved into risers echo thoughts that may be in riders' minds.

LOS ANGELES SEEMS an unlikely place for a mass transit system. But the region's buses carry more than a million riders a day, and for more than a decade it has been pressing ahead with construction of a planned 80-mile, \$7.86 billion light- and heavy-rail network.

MetroRail's public art program is equally ambitious. The Green Line, a recently completed light-rail segment, was the first that included artists in station design teams. At the outset, some construction and engineering staff were wary of the collaborative approach, fearing that it would delay the project and make it more expensive, that the public would consider art an unnecessary cost, and that the art would be controversial.

One help was MetroRail's CEO at the time, Neil Peterson, who personally urged construction staff to support the program. Metro Art staff established extensive consultation processes with construction managers and created a community advisory group to seek input and participation.

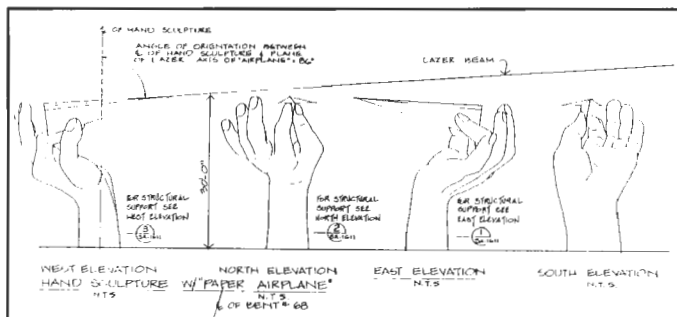
Early community support for the art helped the agency raise money later from local government and businesses. (The Green Line was a locally funded project that used no federal funds.)

If anything, the projects demonstrated that the closer architects, engineers, and artists work together throughout the entire design and construction process, the better. Artists didn't join the design team until the 60 percent design phase, making it hard to review budget estimates for artwork until the final design submittal. Also, the structural plans for some of the artwork proved to be over-engineered, requiring costly redos. The architects weren't involved in the construction phase (although the artists were), making it hard to ensure the designs were built as proposed.

Some artists had difficulty fabricating their artwork on time, but installation contracts were modified without delaying the completion of the stations. Maintenance problems (such as the use of materials and paint that would not stand up to the region's moist, polluted air) were avoided by having maintenance staff review materials specifications prior to installation; Metro Art is taking steps to submit future projects to even closer scrutiny.

In spite of their late start, the artists influenced many components of the system. Renee Petropoulos carved reflective phrases into the risers of the Douglas/Rosencrans Station, noting that a transit ride often marks an important transition in a person's day. Daniel Martinez's sculpture at the El Segundo Station plays on the neighborhood's history as an aerospace and defense manufacturing center.

The stations have been received warmly by Green Line customers and are becoming tourist attractions. And collaborative station design projects are now standard procedure as Metrorail expands.





I WANT TO ADD ONE
DIRECTION
YES AND NO TO YOUR
OF COURSE
FINE WITH ME
DOES IT COME FROM
THAT FACE WHERE
WHAT DID YOU SAY

MY MOTHER.

I SOUND JUST LIKE

THE FORK.

PUT THE PEAS ON

I FORGOT.

DID YOU PAY THE



Part of the art for this Green Line station is dramatically hoisted into place. Opposite: Left to right: The original Native American name for the station's location meant "Place of the Bees." Detail of table and chairs at station's platform level, which house a specially designed lens with a kaleidoscopic view of the moving street traffic below. A large, vibrantly colored, metal cut-out figure plays hide-and-seek among the columns supporting the freeway above.

**LESSONS
LEARNED**

- Strong support and involvement from the CEO and other high-level staff is a plus.



- Plan the design team process with construction staff. Set priorities at the outset and review progress along the way.



- Cultivate public awareness of your project through participatory activities and “meet the artist” events during design development; hold tours and press conferences after completion. Keep a mailing list of supporters and use it.
- Require artists to have a materials-engineering consultant advise on the project, particularly in regard to newer materials that are available.
- Require artists to consult with a professional conservator early on.
- Require artists to provide lists of potential fabricators, and ask fabricators to provide estimates for the work.

- Ensure that artists review architectural renderings while in the drawing/sketch stage and sign off on all milestone submittals of drawings and specifications.

- Involve artists in the installation of their art. Compensate them for this work, for example, with a construction management fee in their fabrication contracts.

- Assume Murphy's Law at all points—double, triple, and quadruple check specifications. Never assume something is clear, spell it out.



bringing residents into the **pro**

Boston: Writing, photography, and history programs document community transformed by in

IN THE 1980s, Boston relocated its elevated Orange Line into a nearby railroad corridor, coupling it with Amtrak and commuter rail service and creating a model in intermodal connection.

But the project was controversial from the start. A decade before, to make way for a new expressway, a right-of-way had been cut

through poor and working-class neighborhoods. Outraged residents protested the expressway and ultimately battled it to a halt. These same communities were then wary of the transit relocation, even with a 4.7-mile-long park that would also occupy the corridor. They were fearful about the gentrification and crime the project might bring to their neighborhoods.

Public art became a tool to help these residents cope with the change. The Massachusetts Bay Transportation Authority (MBTA) hired UrbanArts, a local organization, to coordinate an arts program. UrbanArts not only established a traditional station-specific art program, which citizen-based station committees helped review, but also created opportunities for residents to document the transformation their neighborhood was experiencing through photography, oral history, and writing. These explorations helped residents to assert an identity they felt was being erased by the massive construction project and to relieve the tensions that had been building in their community.

Nearly 800 people of all ages and backgrounds took part in the projects. Professional photographers went on shoots with high school students to

LESSONS LEARNED

- **Build alliances with local organizations, such as arts and educational institutions, that can provide access to resources such as venues for exhibitions.**
- **Projects managed by organizations outside the transit agency can often take greater creative risks.**



Left and opposite: Poetry and prose is inscribed on granite panels inside and outside the stations.

CESS

termodal project

capture the architecture and people of “The El” prior to its demolition. College students collected oral histories from community residents. These photographs and texts were exhibited throughout the community; the oral histories were even produced as a theatrical performance.

UrbanArts also held a competition to find poetry and prose that would be inscribed in granite and installed permanently in new Orange Line stations and adjacent parkland. An advisory group helped spread word in literary circles and a selection panel chose the writing that would be featured. Some of the writers had never had their work published before.

The writing, history, and photography projects were developed in response to the MBTA’s request for educational programming. However, UrbanArts envisioned something more ambitious than the



MBTA anticipated. Therefore, the group raised seed money from local sources to launch the projects and the MBTA funded the final stages, including the installation of the poetry and prose.

The Orange Line projects suggest that public art can do more than enhance public space; it can advance a more far-reaching role in the social and economic revitalization of urban neighborhoods. They demonstrate how communities can use public art to deal with conflict creatively and constructively.

- When undertaking community participation projects, do not assume the existence of a public; citizen involvement must be invited and sustained.
- Consider art projects that can be staged off-site, such as photography shows or theatre or dance performances.
- Project-specific advisory committees can offer perspective to arts administrators and strengthen relationships with local citizens and institutions.

designing as a team

St. Louis: Artists help shape new light-rail system

WHEN ST. LOUIS began planning its new light-rail system in the mid-1980s, two of the challenges it faced were attracting riders who didn't normally rely on public transportation and building a system that contributed aesthetically to the region. So the system's planners asked artists for help—not in creating specific art projects, but in designing the system from top to bottom, from stations to shop buildings, from rolling stock to rights of way.

The resulting collaboration between MetroLink's artists, architects, and engineers has resulted in an award-winning work of infrastructure and proved that artists can help design a visually coherent, efficient system that is appealing, easy to use, and comfortable. MetroLink's higher-than-expected passenger loads (43,000 on weekdays, 45,000 on weekends, compared to projections of 12,000 a day) demonstrate that investment in good design can help attract riders.

The Bi-State Development Agency, which was building MetroLink, wanted to use off-the-shelf, service-proven technology in order to contain costs and keep development on schedule. At the urging of civic leaders, Bi-State brought in a team of six artists, hoping to attract riders by improving the design.

The system was designed and constructed through a full funding agreement from the Urban Mass Transit Administration (now FTA); funding for the artist involvement initially came from the National Endowment for the Arts and the St. Louis Regional Arts Commission

and later from FTA funds.


The artists started work at the 30 percent design stage, after preliminary engineering had been completed, so they had to invent their own guidelines for involvement. They decided to approach the entire system as an 18-mile-long work of art, rather than to create isolated art projects. They sought to design a kit-of-parts for newly constructed elements (such as bridge piers, canopies, tunnel ceilings, and vehicle interiors) while preserving visual elements of the right of way that MetroLink would occupy.

The artists established three criteria that would infuse their work: MetroLink would grow from what is characteristic of St. Louis, it would be a whole set of related components, and it would be dynamic rather than static. They envisioned a system that would flow through the region, reflecting the ever-present curves of the Mississippi River, the Eads Bridge (a nineteenth-century steel and limestone landmark), and the Gateway Arch.

At first the collaboration was tense. Because of the pressure to keep the project on time and budget, it was not always easy to rethink basic decisions—especially since the architects and engineers, not the artists, would be held responsible for delays and overruns. Lead artist Leila Daw observed that the designers worked together best in one-on-one, conversational settings over drafting boards or cups of coffee, rather than in the formal atmosphere of meetings.

Opposite:
MetroLink train
threads through
an old railroad
tunnel.



A photograph of a modern bridge with Y-shaped concrete piers. The bridge spans a body of water, and a high-speed train is crossing it. The sky is clear and blue. The bridge's design features large, curved concrete piers that support the bridge deck. The train is white with a dark stripe and is moving from right to left. The overall scene is bright and clear.

Y-shaped bridge piers were inspired by curves in the landscape. Opposite: Canopies reflect Mississippi River life.

The most vivid outcome of the collaboration came in the large infrastructure elements that had to be designed, bid, and built first. For example, artists helped redesign standard T-shaped bridge piers into curving, Y-shaped forms, whose shape is inspired by curves in the region's built and natural landscape. The rippled, sculptural station canopies resemble the skeleton of a Mississippi River creature.

Also, both underground stations were rethought after the artists became involved. Original plans called for box-shaped spaces with columns along the platforms; the finished stations are free of columns and enclosed by curved ceilings and battered walls to widen the interior space. Metrolink trains thread through an old railroad tunnel whose brick walls project into the stations, contrasting with the sleek, new train design.

Even support structures were considered. The shop building, where trains are serviced and cleaned, was given interior viewing platforms so the workings of the system, not usually seen, could be open to the public. Signal bungalows were surrounded with open steel frames, highlighting the structures instead of hiding them.

The artists were less successful at influencing the design details; some of the the ideas agreed to by the artists and design teams early on were dropped because of budget considerations. For example, at 60 percent design, the Forest Park Station had curving walks and stairways reminiscent of the architecture of the St. Louis Exposition. These were replaced with standard stairways and paths.

Bi-State's value engineering process also influenced the design. Contractors could submit alternatives to the final design and profit from changes the agency approved. In this process, retaining walls



along the right-of-way that had been selected and coordinated by the artists were replaced by versions that had been rejected.

In spite of these changes, the artists began to rewrite the rules for artist involvement in transit design. They confronted the often rigid programs of contemporary engineering and transit system design with the creative traditions of site sculpture and community-oriented design. They relinquished the artist's role of working independently to create singular objects, instead working hand-in-hand with others to design elements of the system's infrastructure. The team effort resulted in a great public work that has been received with enthusiasm in the region and among its customers.

LESSONS LEARNED

- Look to what is visually interesting or important to a neighborhood, city, or region for aesthetic inspiration.
- Not all processes are alike. Designers on a team should be given time and space to create their own methods for collaborating.
- Artists must be willing to accept that their ideas, even if on the final drawings, may not be incorporated into the finished product.

moving forward with

Seattle/King County: New buses look good, run well, and don't break the budget

How CAN A bus be designed to increase riders' comfort and safety and improve the bus system's identity—without costing more to build or operate? That's the challenge the King County Metro bus agency posed to an unusual team of artists and designers. The answer has just rolled off the assembly line and onto the county's streets.

The new design addresses the concerns of both passengers and Metro staff members who operate and maintain the fleet. The buses are comfortable, with high-back seats and colorful interiors; have signs that communicate route, safety, and fare information more clearly; and have better ventilation and lighting. They are low maintenance, with vandal-resistant materials. And they are a proud addition to the county's streets, sporting vivid yellows along the bottom and Northwest-inspired blues and greens on top.

The unique design process came about when Metro launched a ten-year plan to replace almost all of its 1,200 buses. Metro's Arts Committee, which normally administers percent-for-art funds from transit construction projects, saw an opportunity to improve the design of the vehicles 250,000 people ride every day.

At the urging of the Arts Committee, Metro hired a team that included an industrial designer, interior designer, graphic designer, communications specialist, and public artist to propose changes to the bus interior and exterior. The team was assisted by an 18-member employee task force that included drivers; maintenance workers; safety planners; and sales, marketing, and customer relations staff—people whose support would be critical to approving the new design.

The team had six months to come up with a new design that cost no more to build, operate, or maintain than a standard bus. The \$90,000 design contract was funded by shifting art program money that would have gone to construction projects (which had a percent-for-art set-aside) to the bus project (which did not).

Before long, though, the design team found itself pulled in different directions by the Arts Committee, which had hired the team and met with it monthly to discuss aesthetic issues, and the

Mock-ups of two new buses. Opposite: Prototype bus was used to solicit public comment.



style



employee task force, which met almost daily with the team and provided technical information. The Arts Committee wanted the team to stretch the limits of bus design, emphasizing innovation, creativity, and aesthetics. The employee task force was willing to support change but was more concerned about such practical matters as safety, maintenance, and operations.

These conflicting directions, and the tension they created, threatened to derail the project. Eventually, lines of communication were opened by modifying the process—Arts Committee and task force members began to attend each other’s meetings and the groups held some joint meetings, providing a forum for dialogue and compromise.

Preliminary designs were displayed at libraries, shopping centers, and community centers throughout the county to gauge public reac-

tion. The team then prepared a final design, based on reactions from the public, the employee task force, and the Arts Committee. Metro built a prototype by modifying a bus from its existing fleet, and sought further public comment.

While the exterior design generated some controversy, most of the changes were received enthusiastically. Metro’s decision to go with the new design was bold but easy to make because it was backed up by a thoughtful design process, careful cost estimating, and thorough public consultation. The buses came in on budget at \$240,000 each, 80 percent of which was funded by the FTA.

The first group of 360 buses went into service in January 1996, and Seattle is happy to have them. As one resident put it: “Perhaps Metro will do for buses what Starbucks has done for coffee!”

LESSONS LEARNED

- Be aware of both external and internal constituencies —both the public and the agency staff who have a stake in design decisions.
- Identify the constituencies to whom designers are responsible and establish adequate channels of communication.
- Be flexible enough to change your process mid-stream if it isn’t working.

grassroots intervene

Seattle/King County: 425 bus shelters are a welcome sight

From left to right: A local AIDS hospice, elementary schoolchildren, and professional artists have all tried their hand at bus shelter murals. Opposite: A jogger runs past *Eagle, Mountains, Sky*.

KING COUNTY'S METRO bus system has found a remarkably simple way to make its shelters a more welcoming place to wait for a bus: it gives local residents, schoolchildren, and artists a chance to design and paint their very own bus shelter murals.

The program is inexpensive and uncomplicated. People or groups interested in creating murals are asked to select a shelter and to submit a design. Metro staff review the design to make sure it meets a few basic criteria, and the bus agency provides muralists with pre-primed plywood panels and kits of paint. Participants are asked to complete their murals within three months and return them to the facilities shop. Maintenance staff coat the murals with a graffiti resis-

tant, protective clear coat and install the panels, often during their normal repair and cleaning rounds. The total cost is about \$600 per mural, not including installation.

The idea caught Metro's attention in 1989, when it asked its employees for ideas about improving customer service. Employees were grouped into brainstorming teams that included administrators, bus operators, mechanics, and others. One team, inspired by research indicating that community-designed murals could build local ownership of public facilities and help reduce graffiti, suggested asking high school students to paint murals on some of the system's most heavily vandalized shelters. The pilot project was given \$1,000 and developed



ntions

a dozen murals.

The program expanded slowly. At the outset, one staff person worked on it a few hours a week, local businesses donated the paint and Metro's facilities division donated the wood. For several years, the agency's percent-for-art program provided funding for materials and a three-fourths-time project coordinator. Now the program operates with a \$65,000 allocation from Metro's Bus Shelter Comfort and Safety Program.

More than 425 murals were installed during the first six years of the program and 100 more are added each year. High school students, elementary school students, and senior citizens have contributed murals; local arts councils have funded professional artists to coordinate mural projects in their own neighborhoods. Researchers are now studying whether the murals have reduced graffiti, but bus riders say they sense a change.



For bus riders and residents, the result has been a feast of “folk” art that complements Seattle’s successful public art projects. Murals have depicted simple city landscapes, Native American-inspired designs, the music and dance of a Trinidad festival, the U.S. flag, and an eagle soaring over the Olympic mountains. For the agency, the murals have sent a signal that Metro cares about the communities it serves, and neighborhoods are much more willing to listen now when Metro proposes a new shelter.

LESSONS LEARNED

- Encourage innovation from within your agency.
- Make it easy for the community to get involved.
- Encourage a proprietary interest in transit facilities by users and other citizens.
- Ask about and listen to the concerns of operating departments.
- Institutionalize programs within line departments, when possible.
- Find ways to produce art that is inexpensive and does not interfere with everyday operations.

softening the harden

New York: Artist designs floor-to-ceiling grilles for 467 subway stations

IN THE LATE 1980s fare evasion was rampant in New York City's subways. The system was losing approximately \$60 million annually, and people jumping over and crawling under turnstiles contributed to a pervasive feeling that the system was out of control.

The transit police and operating departments at MTA New York City Transit developed a multifaceted approach to tackle the problem. This included a more intense police presence at the fare control line and a decision to increase the height of the grilles that separate paid and unpaid zones so they reached from floor to ceiling. These efforts coincided with a program to automate fare collection throughout the subway by substituting debit cards for coins and tokens, and the Division of Automated Fare Collection (AFC) was put in charge of replacing the grilles.

Utilitarian, straight, stainless-steel grilles had already been designed and fabrication was about to begin in spring 1989, when a concerned board member of the Metropolitan Transportation Authority (which oversees NYC Transit) stepped in. She asked the senior staff person in charge of the AFC program to consider Arts for Transit's proposal to have an artist design the grilles. Since the MTA had had a positive experience with an artist-designed grille (by Valerie Jaudon) that had been installed in one station, he agreed to try.

That June, the AFC program director laid out the challenge at the first meeting with Arts for Transit. The grilles had to be modular; that



is, they had to be designed as a kit of parts that could fit into more than 700 control areas. They had to be made of stainless steel. No bars could be more than five inches apart (to avert the potential of children putting their heads through the bars). And the work had to be completed and approved within three months at a cost close to the estimate for the original design.

Artist Laura Bradley was hired to work on prototypes. Bradley had been selected competitively to create a permanent artwork for

Railings with medallion design are installed in older subway stations.

Opposite: Railings with wave design are installed in newer subway stations.





The high-wheel exit with curved bars and perforated metal sides. Opposite: Side-by-side, softened high-wheel exit on left, traditional exit on right.

a station in Manhattan and was already studying grilles as an added element of her project. She submitted more than 25 preliminary designs for the prototype, half of which were immediately eliminated by Arts for Transit and AFC staff. Some, for example, included too many cuts and welds, which would increase costs; some included too many horizontal bars, which would tempt people to climb over the grilles.

By late June two basic designs were presented to operating staff. Minutes from that meeting recall that the response was hardly encouraging: “Concerns were expressed regarding maintenance, fabrication, installation, strength, and weight. It was stressed that the alternative design must not negatively impact either the cost or installation schedule of the AFC program.” Bradley was open to making further revisions, which she prepared with critical assistance from NYC Transit staff in the AFC project, the Office of Station Design, and the Infrastructure Division (which would install the railings), and from design consultants Cooper Robertson + Partners. By August, two prototypes were approved.

The two designs responded to the different types of stations in New York’s system. Grilles with medallionlike designs were proposed for stations that had beaux-arts or arts-and-crafts designs; grilles with wavelike designs were proposed for “moderne” stations designed in the 1920s and 30s. Both railings were tested in stations before going into full production.

Bradley worked closely with agency staff and the fabricator throughout the implementation phases and helped make refinements.



For example, she redesigned the template for the controlled entrance gate in response to comments from disabled passengers. Because there were funds left in her contract, she was also asked to revise the design of a very bulky piece of station furniture, the high-wheel exit. Her refinements softened this revolving-door-like feature by curving the arms and substituting perforated metal for the solid steel that makes up the wheel’s sides. Again, many divisions (including AFC, police, revenue, design, and system safety) reviewed and approved the drawings.

All these elements—grilles, gates, and wheels—will be installed throughout the subway’s 467 stations, combining with new trains, station reconstruction, and the AFC system, to bring the subway into the twenty-first century. In the end, the artist-designed grilles cost slightly more than the straight railings would have, but NYC Transit felt the increase was justified. Some elements of the design, such as the curves and extra cuts and welds in the steel, added to the cost. But others, such as painting the grilles rather than polishing them, resulted in savings.

MTA officials had feared subway riders would complain about the increased height of the grilles. Instead, riders and critics alike have praised the new design as a positive element in the stations. “Arts for Transit, the same people who bring you music in the New York subway system... are making the stations more congenial in other ways,” *The New York Times* remarked about the grilles. Clearly, the decision to soften the hardening of the control area was a good one.

LESSONS LEARNED

- Support from board members, senior staff, and operating staff is critical.
- Artists and art administrators must be flexible.
- Having dedicated art staff within the agency is valuable, they can understand both art and operational concerns.
- Know technical issues, such as fabrication techniques and costs.

appendix

a

FTA Circular 9400.1A

Subject: Design and Art in Transit Projects

June 1995

1. **Purpose** This circular revises FTA Circular 9400.1, reaffirms that costs for design and art are eligible costs for FTA-funded transit projects, provides guidance for the incorporation of quality design and art into transit projects funded by FTA, and, within recommended parameters, leaves the allocation of funds for art to the discretion of the local transit entity.

2. **Cancellation** This circular cancels FTA Circular 9400.1, “Design and Art in Public Transportation Projects,” dated 1-19-1981.

3. References

- a. 42 U.S.C. 321 and 331, National Environmental Policy Act of 1969.
- b. 49 U.S.C. U.S.C. 303(a) and 303(b), “Policy on lands, wildlife and waterfowl refuges and historic sites” (formerly §(f) of the Department of Transportation Act of 1966).
- c. 49 U.S.C. 5301(e), “Preserving the Environment” (formerly Section 14(a) of the Federal Transit Act, as amended).
- d. 23 CFR Part 771, “Environmental Impact and Related Procedures.”
- e. FTA Third Party Contracting Guidelines 4220.1B.

4. **Applicability** This circular applies to Federal assistance under 49 U.S.C. 5309, 5303, 5307, and 5311 (formerly Sections 3, 8, 9, and 18 of the Federal Transit Act, as amended) and note that under the flexible funding provisions of Title 23 U.S.C. funds may be transferred to selected FTA programs.

5. **Policy** The visual quality of the nation’s mass transit systems has a profound impact on transit patrons and the community at large. Mass transit systems should be positive symbols for cities, attracting local riders, tourists, and the attention of decision makers for national and international events. Good design and art can improve the appearance and safety of a facility, give vibrancy to its public spaces, and make patrons feel welcome. Good design and art will also contribute to the goal that transit facilities help to

create livable communities.

In updating this Circular, FTA articulates its commitment to fund quality design and art in mass transit projects and allows local agencies discretion in developing allocation of funds for these efforts within recommended parameters. FTA will fund the costs of design, fabrication, and installation of art that is part of a transit facility.

To create facilities that are integral components of communities, information about the character, makeup, and history of the neighborhood should be developed and local residents and businesses could be involved in generating ideas for the project. Artists should be encouraged to interact with the community and may even choose to work directly with residents and businesses on a project.

6. **Areas of Application** While many transit projects can benefit from quality design and the inclusion of art, some areas offer greater potential for such aesthetic treatment. Examples of projects that offer special promise are:

- a. *Major Construction Projects* New fixed guideway (“New Starts”) projects, bus terminals, intermodal facilities, park-and-ride lots, and other associated facilities that provide bicycle and pedestrian access to the transit facilities have a significant impact on their environs and provide an opportunity to include artists on teams that plan, design, and engineer all aspects of the project. Artists should be part of the initial stages of project development.
- b. *Modernization Projects* Fixed guideways, bus terminals, and intermodal facilities periodically undergo modernization and renovation. Such projects offer opportunities to restore valuable historic elements and to include contemporary art that responds to the historic context. Rehabilitation of these facilities and integration of art that respects the original architecture may serve to reinforce the history of mass transit in the modern urban setting. These facilities can also serve as showcases for regional and other exhibits, thereby increasing their identity as important public facilities.
- c. *Vehicle and Related Facility Improvements* Rail cars, buses, and paratransit

vehicles can be made more attractive through distinctive interior and exterior design and graphics employed in a cost-effective manner by design professionals and artists. Many communities have a need for bus shelters to protect riders from inclement weather. These shelters and surrounding areas can be designed by architects, landscape architects, or artists, or a team approach can be taken. In addition, the shelters could provide display cases for posters or announcements of local events.

- d. *Construction Mitigation* Temporary art may be commissioned during construction to mitigate the negative economic impacts on businesses and to be used as part of a public outreach program for the community.
7. **Eligibility of Costs for Art in FTA-funded Projects** Although facility design and construction activities are eligible FTA project expenses covered under ongoing planning and capital grant programs, art has not always been an eligible capital cost as a component of these activities. The incorporation of art into all areas of transit projects that are visible to the public is considered to be an eligible capital cost as a part of planning, design, and construction activities. The definition of art can be interpreted broadly for these purposes, from free-standing sculpture to wall pieces to functional elements such as seating, lighting, or railings to artists being part of an interdisciplinary team in which the artists contribute to the overall design and specific art pieces may or may not be created.
- a. *Eligibility* In order to promote local determination of appropriate transit-related art undertakings, FTA has established broad, flexible guidelines for including these items in agency-funded projects. In general, such artistic undertakings should conform to the following criteria:
 - (1) Studies and other local activities to develop programs for including art in the planning and design of transportation facilities and to obtain public participation must be included in the appropriate annual planning work programs (the Unified Planning Work Program for planning-only projects and the Metropolitan Transportation Improvement Programs for capital projects) that are assisted with FTA funds.
 - (2) Funds spent on the art component of projects should be appropriate to the overall costs of the transit project and adequate to have an impact. These costs should be all-inclusive and generally should be at minimum one half of 1% of construction costs, but should not exceed 5% of construction costs, depending on the scale of the project. Artists may be paid a fixed fee or an hourly wage with a cap, similar to other design professional services (see FTA Third Party Contracting Guidelines, 4220.1B).
 - (3) Costs should be included in the relevant budget line items; that is, in planning,

design, and construction line items.

- (4) Artistic undertakings that promote specific private or corporate business interests are ineligible for FTA funding.
 - (5) The local transit agency should provide adequate administrative and technical support to professionally develop and implement the art program as well as make a long-term commitment to the maintenance of the art, as is customary with other physical assets.
- b. *Procuring Artists* FTA Third Party Contracting Guidelines stipulate procedures for selecting architects for transit projects but do not specifically address the selection of artists. The appropriate artist selection process should vary among projects, depending upon the nature and scope of the project, characteristics of the site, resources of the community, and state and local statutes. Whatever process is used to select artists, FTA recommends that it be structured to assure the following:
 - (1) A justifiable process, demonstrating appropriate use of public funds, that gives serious consideration to a variety of artists available and capable of working on the project.
 - (2) Artists, regardless of race, color, creed, national origin, sex, or age, are eligible for consideration.
 - (3) Selection of artists and/or artwork recommended to the grantee is determined by a panel of art and design professionals, which may include but is not limited to art administrators, artists, curators, and architects.
 - (4) The community surrounding the future facility participates in the selection process. This could include all levels of participation, including supplying information, attending panel meetings, and being voting members of the panel. The extent and type of participation should be determined by the commissioning agency and be appropriate to both the project and the community.
 - c. *Criteria for Transit Projects in Which Artists Are Involved* It is suggested that the following criteria be used when artists are involved in planning and design of transit projects and/or when individual works of art are commissioned:
 - (1) quality of art or design,
 - (2) impact on mass-transit customers,
 - (3) connection to site and/or adjacent community; art that relates, in form or substance to the cultures, people, natural or built surroundings, or history of the area in which the project is located,
 - (4) appropriateness for site, including safety and scale,
 - (5) durability of materials,
 - (6) resistance to vandalism, and
 - (7) minimum maintenance.

appendix **1** **B**

Case study credits

Boston

Writing, Photography, and History Projects

Sponsoring Agency: Massachusetts Bay Transportation Authority
Consultant: UrbanArts
Art Project Director: Pamela Worden
Photographer: Peter Hamblin

Corpus Christi

Port Ayers Station

Sponsoring Agency: Regional Transportation Authority
Project Director: Denise Hernandez, Fernando Benavidez (RTA), Alda Godines (Center for Hispanic Arts)
Artist: Alda Godines
Architect: Lugo O'Keefe and Associates (Oscar O'Keefe)
Engineer: Urban Engineering (Art Aguirre), BMW Engineering
Landscape Architect: Robert Gignac
Construction Manager: Govind and Associates
Photographs: Courtesy RTA
Staples Street Station
Sponsoring Agency: Regional Transportation Authority
Project Director: Steve Ortmann (RTA), Nora Sendejar (Creative Arts

Center)

Artists: Ed Gates, Terri Compton
Architect: John Wright
Planner: Project for Public Spaces
Photograph: Courtesy Project for Public Spaces

Los Angeles

MetroRail Green Line

Sponsoring Agency: Los Angeles County Metropolitan Transportation Authority, Metro Art
Art Project Director: Maya Emsden
Architect: Escudero-Fribourg Architects
Engineers: Parsons Brinckerhoff
Artists: Carl Cheng, Meg Cranston, Charles Dickson, Daniel Martinez, Renee Petropoulos, Joe Sam, Richard Turner
Photographs: Courtesy MTA

Miami

9th Street Pedestrian Mall

Sponsoring Agency: Metropolitan Dade County Board of County Commissioners (Arthur E. Teele, Jr., Chair)
Participating Agencies: Metro-Dade Transit Agency (Edward Colby,

Director), Dade County Art in Public Places (Vivian Donnell Rodriguez, Director), Dade County Department of Facilities and Development Management (Diana Gonzalez, Director), Dade County Public Works (Armando Vidal, Director), City of Miami Commission
Artist: Gary Moore
Landscape Architect: Wallace, Roberts and Todd (Gerald C Marston, ASLA, with Patrea St. John, Kevin Might, Michael Del Giudice, Bart McElfresh, Robin Garcia)
Engineer: Metric Engineering Planning Surveying Co.
Contractor: Community Asphalt Corp.
Community Advisory Panel: Overtown Advisory Committee (Dorothy Jenkins Fields, chair).
Photographer: Gary Knight Associates Inc.

New York

Automated Fare Collection Subway Grilles

Sponsoring Agencies: Metropolitan Transportation Authority, MTA New York City Transit

Project Directors: Wendy Feuer, MTA Arts for Transit and Facilities Design, Pierce Williams, NYC Transit Division of Automated Fare Collection
Artist: Laura Bradley
MTA: Ronay Menschel (former Board Member)
NYC Transit: Russ Broshous, Paul Katz, Steve Morris, Bob O'Brien
Design Consultant: Don Clinton, Partner, Cooper Robertson + Partners
Photographer: Peter Hamblin

Portland

Washington Park Station Construction Fences

Sponsoring Agency: Tri-Met, Westside MAX Public Art Program
Rebecca Banyas, Public Art Manager
Eloise MacMurray, Public Art Director, Regional Arts and Culture Council
Amy Carlsen Kohnstamm, Community Affairs, Westside Max
Curator: Kristy Edmunds
On-site Coordinator: Barbara Berger
Artists: Rick Austin, Manda Beckett, Jim Blashfield, Michael Brophy, Rebecca Campbell, Judy Cooke, Kay

French, Gregory Grenon, Mary Josephson, David Hapgood, Stephen Hayes, Angela Medlin, William Park, Lucinda Parker, Laura Ross-Paul, Phil Sylvester, Margot Thompson
Artist Selection Committee: Kristy Edmunds, Terri Hopkins, Amy Carlsen Kohnstamm, Norie Sato
Architect: Zimmer Gunsel Frasca Partnership
Engineers: Parsons Brinckerhoff (Bill Bieker, Gary Hartnett, Tom Plant), Tri-Met (Carl Zeitz)
Contractor: Frontier Traylor Joint Venture
Photographers: Mark Barnes (page 10), Tim Jewett (pages 11-13)

St. Louis

MetroLink

Sponsoring Agency: Bi-State Development Agency, Arts in Transit
Art Project Director: Ann R. Ruwitch (1988-1993), Sarah B. Smith (1993-)
Artists: Alice Adams, Gary Burnley, Leila Daw, Michael Jantzen, Anna Valentina Murch, Jody Pinto
Architects: Kennedy Associates/Architects Inc; Tod Williams and Billie Tsien

Landscape Architects: Austin Tao and Associates
Engineers: Sverdrup Corporation; Booker Associates; Kuhlman Design Group; Booz, Allen & Hamilton
Trackwork: LS Transit Systems
Photographer: Robert Pettus

San Francisco

19th Avenue Boarding Islands
Sponsoring Agencies: San Francisco Municipal Railway, San Francisco Public Utilities Commission, San Francisco Art Commission (Public Art Program)
Project Managers: Ken Jew, Jim Nelson (San Francisco Municipal Railway), Jill Manton, Eleanor Beaton (Art Commission)
Artists: Leonard Hunter, Sheila Ghidini
Architect: Miguel Tello (San Francisco Municipal Railway, Engineering)
Engineer: Bill Gamlen (San Francisco Municipal Railway, Engineering)
Community Facilitator: Karen Silverman (San Francisco Municipal Railway, Community Affairs Department)
Photographer: Peter Hamblin

Seattle/King County

New Bus Fleet

Sponsoring Agency: King County Department of Transportation
Art Project Director: Carol Valenta
Design Team: Karen Anderson, Danilo Bonilla, Jon Hersh, Pam Lund, Fred Metz
Metro Arts Committee: Louise Miller (Chair), Ruth Askey, Lynn Basa, Elizabeth Conner, Eileen Gruhn, Susan Harris, Rose Lee, Samaj, Catherine Unseth.
Metro Employee Bus Design Task Force Division Representatives: Emmett Heath, Mike Voris (Capital Planning and Development); Robert Wade, Jane Glascock (Research and Market Strategy); Gary Larson (Community Relations and Communications); Wayne Hom, Bob Carroll (Service Development); Craig Clark, Jim Nale, Bob Liddel, Mark Kelly (Vehicle Maintenance); Linda Wraith, Sharron Shinbo (Sales and Customer Service); Dan Williams (Corporate Communications); Gary Gibson (Graphics); Vic Kaufman, Doug Thompson, Ilene McCune, Marilyn Davis (Operations); Sue

Stewart, Jerry LaBorde (Safety).
Manufacturer: Gillig Corp.
Photographer: Peter Hamblin

Seattle/King County

Bus Shelter Mural Program

Sponsoring Agency: King County Department of Transportation (Transit Division, Service Development Section, Comfort and Safety Unit)
Program Manager: Dale Cummings
Project Coordinator: Patt Comstock
Photographer: Peter Hamblin

appendix **C**

Art in mass transit systems

The following cities, counties, and regions have, or are planning to have, art as part of their bus or rail systems. In some cases the agencies have an ongoing program that commissions permanent and temporary art, other agencies hire art consultants to assist with the art component of specific projects. We apologize if we have missed any projects or programs.

In place

Arizona

City of Tempe
City Hall
31 East 5th Street
Tempe, Arizona 85281

California

Los Angeles Metropolitan Transportation Authority
Metro Art
P.O. Box 194
Los Angeles, California 90053

Joe Tyler, University Drive, Tempe, Arizona



Daniel Joshua Goldstein, Colma Station, San Francisco, California

Bay Area Rapid Transit District
800 Madison Street
P.O. Box 12688
Oakland, California 94604-2688

Sacramento Regional Transit
1400 29th Street
P.O. Box 2110
Sacramento, California 95812-2110

County of San Diego
Department of Public Works
5555 Overland Avenue #0380
San Diego, California 92123

San Francisco Municipal Railway
949 Presidio Avenue
San Francisco, California 94118

Florida

Metro-Dade Transit Authority
Stephen P. Clark Center
111 N.W. 1st Street, Suite 1510
Miami, Florida 33128-1982

Broward County Mass Transit
3201 West Copans Road
Pompano Beach, Florida 33069

Hillsboro Area Regional Transit Authority
201 E. Kennedy Boulevard, Suite 1600
Tampa, Florida 33602

Georgia

Metropolitan Atlanta Rapid Transit Authority
2424 Piedmont Road, N.E.
Atlanta, Georgia 30324

Restored facade, 5 Points Station, Atlanta, Georgia



Illinois

Chicago Transit Authority
Mural Program
Merchandise Mart Plaza
P.O. Box 3555
Chicago, Illinois 60654

Maryland

Maryland Department of Transportation
Mass Transit Administration
Baltimore Metro
6 Saint Paul Street
Baltimore, Maryland
21202-1614

Massachusetts Bay Transportation Authority
Art Program
10 Park Plaza
Boston, Massachusetts
02116



Mark Sullivan, Johns Hopkins Hospital Station, Baltimore, Maryland



Kirk Newman, Michigan Avenue Station, Detroit, Michigan

Michigan

Detroit Transportation Corporation
The People Mover
Art in the Stations
150 Michigan Avenue
Detroit, Michigan 48226

Missouri

Bi-State Development Agency
MetroLink
Arts in Transit
707 North First Street
St. Louis, Missouri 63102-2595

New Jersey

Port Authority of New York and New Jersey
Art and Architecture Program
1 World Trade Center,
82 West
New York, New York 10048

New York

Niagara Frontier Transportation Authority
181 Ellicott Street
Buffalo, New York 14203

Metropolitan Transportation Authority
Arts for Transit and Facilities Design
347 Madison Avenue
New York, New York 10017

Ohio

Greater Cleveland Regional Transit Authority
Arts in Transit
615 Superior Avenue, W.
Cleveland, Ohio 44113

Oregon

Tri-County Metropolitan Transportation District of Oregon
Westside MAX Public Art Program
710 Northeast Holladay
Portland, Oregon 97232

Pennsylvania

Southeastern Pennsylvania Transportation Authority
1234 Market Street
Philadelphia, Pennsylvania 19107

Port Authority of Allegheny County
2235 Beaver Avenue
Pittsburgh, Pennsylvania 15233-1080

Albert Paley, Wood Street Station, Pittsburgh, Pennsylvania



Ed McGowin, Hampton Station, Dallas, Texas

Texas

Corpus Christi Regional Transit Authority
1812 South Alameda
Corpus Christi, Texas 78401

Dallas Area Rapid Transit
Art and Design Program
P.O. Box 660163
Dallas, Texas 75266-0163

Washington

Intercity Transit
P.O. Box 659
Olympia, Washington 98507

King County Government
Department of Transportation,
Transit Division
821 Second Avenue
Seattle, Washington 98104-1598

In progress

Arizona

City of Scottsdale Transportation Department
7447 East Indian School Road
P.O. Box 1000
Scottsdale, Arizona 85252-1000

Colorado

Regional Transportation District
1600 Blake Street
Denver, Colorado 80231

New Jersey

New Jersey Transit
One Penn Plaza East
Newark, New Jersey 07105-2246

Texas

Metropolitan Transit Authority
METRO
1201 Louisiana
Houston, Texas 77208-1429

Utah

Utah Transit Authority
221 West 2100 South
South Salt Lake, Utah 84115



Federal Transit Administration
400 7th Street, SW
Washington, D.C. 20590

Project Director: Wendy Feuer, Director Arts for Transit and Facilities Design
New York State Metropolitan Transportation Authority; with the assistance
of Belinda M. Kane and Holly Vandervort, FTA; Kendal Henry and Monica Hudson, MTA.

Design: 212 Associates

Editor: Todd W. Bressi

Photographer: Peter Hamblin (unless otherwise noted)

February 1996

Opposite:
Don Merkt,
The Driver's Seat,
sculpture at
intermodal facility,
Portland, Oregon.



