Georgia Street Reconstruction

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Indianapolis, Indiana

Presented by:

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Precedents: Las Ramblas, Barcelona, Spain
Georgia Street Prior to 2011
INDIANA TERMINAL WAREHOUSE

The Indiana Terminal Warehouse (1923) was designed by Rubbo & Huber for the Terminal Building Corporation. It was designed to provide improved access from Illinois and Pennsylvania Street with four hours of general warehouse space above. The warehouse offered direct connections to the connected freight yards nearby via a concrete elevated walkway over Pennsylvania Street.
Engineering Challenges

- Fully accessible, curbless environment with 1 lane in each direction, inverted crown and interior pedestrian corridor
Engineering Challenges

- 2'-8" APPURtenANCE FREE ZONE
- 9'-6" TRAVEL LANE
- 12'-2" SIDEWALK

- BOARDWALK
- SEDIMENT FOREBAY

VARIES 9'-10" TO 13'-11" PARKING LANE
Engineering Challenges
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Engineering Challenges: Utilities
Engineering Challenges: Vaults

[Diagram of vaults with labels and connections]

[Inset diagrams: North Wall and West Vault Plan View]
Engineering Challenges: Heated Pavement

1. Pavers
2. 1" Bituminous Setting Bed
3. 7" Concrete in Streets, 4" Concrete for Sidewalks
4. 2" Rigid Board Insulation (Alternate 1, Alternate 2 & Alternate 9)
5. 0.75" Radiant Tubing 9" on center by H.C. Tubing Locations and Dimensions may vary based on selected manufacturer's specifications. (Alternate 1, Alternate 2 & Alternate 9).
6. 2" Depth for Sidewalks, 2.5" Depth for Streets. Dimensions may vary based on selected manufacturer's specifications. (Alternate 1, Alternate 2 & Alternate 9).

_radiant tubing detail_
Sustainable Features
Sustainable Features
Sustainable Features: Trees and Plantings
Sustainable Features

- Bike racks
- Recycling receptacles
- Electric car charging stations
- Motorcycle parking
Design team completed project design in 7 months, while adhering to all federal requirements.
Accelerated Schedule

• All work inside the ROW
  o Face of Building to Face of Building

• Cooperation and Collaboration
  o Project Sponsors involved
  o Stakeholders involved

• Environmental documents
  o Agreed adverse effect
  o CE2 approval
• 200 plus pay item bid
• 17 bid alternates
• Not just another “Road Job” – required merging of Hunt Construction Group and Hunt Paving Company resources to compile bid
• Project ties to the Super Bowl – another opportunity to construct a local landmark – intrigued Hunt
• Mix of subcontractors was unique – electrical, mechanical, finish carpentry, structural steel, masonry, etc.
• Value Engineering Process employed after Bid Process
  o Granite to arch precast
  o Intersection revisions
Construction Components:
Site Demolitions/Basement Constructions
Construction Components: Caisson Installations
Construction Components: Drainage Structure
Construction Components

- CU structural soil mixes
- IPE wood decking
- Electrical panel at each catenary base
Construction Components: Steel Catenary System
Construction Components: Large Tree Installations
Construction Components:
Duratherm Pavement Markings
Construction Challenges: Maintaining Business Access
Construction Challenges:
Proximity of New Construction to Existing Facility
Construction Challenges: Existing Utilities Coordination
Construction Challenges: Public Event Coordination