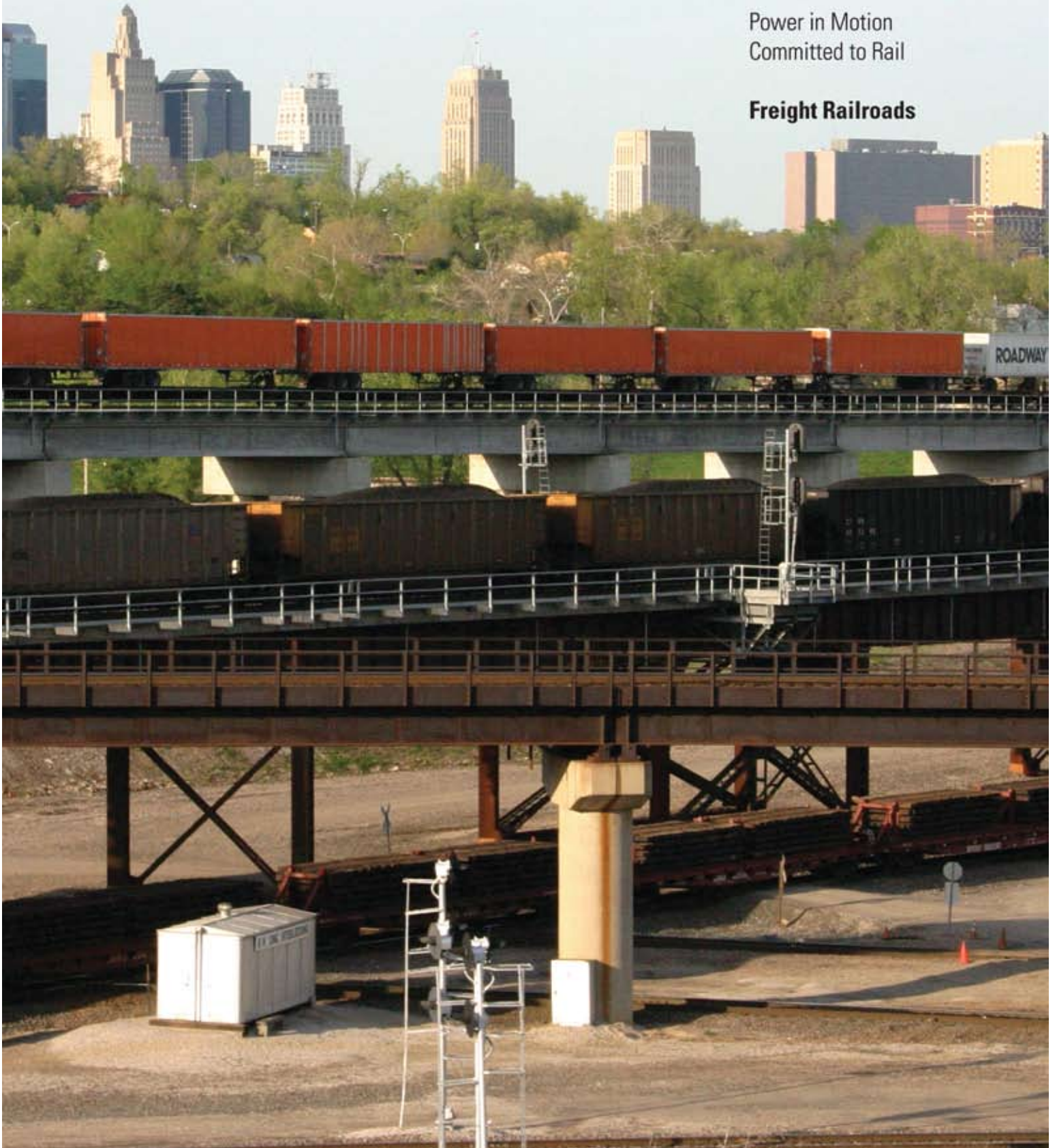




**EXPERIENCE** | Transportation

Power in Motion  
Committed to Rail

**Freight Railroads**





# PARTNERS

## HANDS ON

TranSystems' rail expertise encompasses financing, planning, design and operational services for track, site development and terminal yards. We bring solutions that improve capacity, reduce costs and increase flexibility in the dynamic and competitive rail industry. From the ground up, inside and out, switchers to spurs, we have a deep understanding and respect for this market. In fact, many of our key rail personnel are former long-term employees of major railroad companies. They bring a distinctive expertise to the table, one that can only come from true hands-on rail experience.

## HEADS UP

To continually improve the efficiency, speed, safety and reliability of freight rail movement, that's the greatest challenge – because the cargo isn't waiting. Our ability to bring full architectural and engineering services; management and financial consulting; security expertise; real estate and right-of-way services; intermodal breadth; and construction management skills, puts TranSystems head and shoulders above the rest.

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## WE SERVE

- ▶ Class 1 Railroads
- ▶ Terminal Railroads
- ▶ Belt Railroads
- ▶ Regional Railroads
- ▶ Shortline Railroads
- ▶ State Rail Divisions
- ▶ Federal Railroad Administration



# I N R A I L

## TRANSYSTEMS - MEETING THE CHALLENGES

Across the Strategic and Built Environment

The ability of TranSystems to meet the transportation challenges of its clients rests firmly on the range of modal expertise, technical disciplines and consulting services we have gathered into one integrated business entity. We provide knowledge vertically within each mode of transport and horizontally across all the modes. Likewise, we have embraced the domains of management, real estate, and security consulting, meshed with the full range of the engineering and architectural disciplines. We thus have the ability to wring out handoff costs between disciplines otherwise contained in separate business organizations.

Our project management goals are the same as those of our clients. In fact, we require this of ourselves. We determine the most effective path forward towards project completion. We discover and execute economies without compromising the quality of the project. We are committed to gaining an understanding of the larger purpose and fit into the economy of the project or the program. Finally, we bring an awareness of the needs of both the client and the end user. We never lose sight of the fact that lives – and livelihoods – depend on the solutions we offer.

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### TRANSYSTEMS MARKET SECTORS

- ▶ Freight Railroads
- ▶ Passenger Rail and Transit
- ▶ States and Municipalities
- ▶ Airports and Air Carriers
- ▶ Shippers and Distributors
- ▶ Ports and Maritime
- ▶ Trucking and Automotive
- ▶ Energy and Communications
- ▶ Federal Government



# TRANSYSTEMS' CONSULTING SERVICES

Services to the Freight Rail Sector

## Design and Construction Engineering

Intermodal Facilities  
Terminals  
Terminal Maintenance and Repair  
Switching Yards  
Mainline Track  
Mainline Storage, Receiving and Departing Track  
Off-Dock Port Facilities  
Mainline and Branch Line Extensions  
Transload Facilities  
Industrial Rail Sidings  
Stormwater Retention/Detention  
Cost Estimates and Specifications

## Facility Operational Analysis, Benchmarking and Simulation

Process Definition and Mapping  
Analytical Modeling  
Transportation Operations  
Security and Threat Analysis  
Process Improvement

## Management Consulting Services

Economic Analysis of Logistics  
Market Demand Analysis and Forecasting  
Supply Chain Assessment  
Modal and Transmodal Strategic Planning  
Rail Intermodal Cost Analysis  
Industrial Redevelopment Consulting

## Planning Services

Master Planning  
Platting  
Feasibility Studies  
Capital Programming  
Energy Efficiency  
Freight Mobility  
Site and Facility Master Planning  
Site Assessment  
Urban, Regional and Community Planning

## Real Estate Services

Track Agreement Exhibits  
Right-of-Way Acquisition Services  
Program and Project Management  
Title Research  
Negotiations  
Appraisals/Value Analysis  
Right-of-Way Cost Estimating  
Relocation Assistance  
Property Management  
Document Recording

## Security Services

Security Program Design and Development  
Risk, Threat and Vulnerability Assessments  
Operational and System Auditing Assessments  
Emergency Preparedness and Recovery Planning  
Facility Security Design  
Strategic Master Security Planning

## Other Preliminary and Final Design Services

Site Assessment, Development and Design  
Architecture  
Civil  
Structural  
Mechanical, Electrical and Plumbing  
Feasibility and Impact Studies  
Interior Design  
Landscape  
Routing Analysis  
Signaling, Optimization and Lighting  
Traffic  
Utility Planning and Relocation

## Structural

Bridge Design  
Structural Inspection and Evaluations  
Load Ratings  
Hydraulic and Scour Evaluation

## Surveying

Construction Staking  
Accident Surveys  
As-Built Surveys  
Topographic Surveys

## Permitting

404 Permitting  
Flood Plain Mapping  
Right-of-Way Applications  
Easement Abandonments  
Route Determinations  
Zoning Changes  
Variances and Special Exception Requests

## Construction Management Services

Administration  
Arbitration and Mediation  
Inspection  
Management  
Materials Testing  
Observation  
Surveying, Staking and As-Built

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**EXPERIENCE** Transportation