



# TRAFFIC ENGINEERING

WALTER P MOORE

# TRAFFIC ENGINEERING

The freedom that mobility gives us can be liberating. But as more and more vehicles hit the road each year, how can existing roadway and transit systems keep drivers moving and commerce flowing? Our traffic engineering services provide for safe, reliable and intelligent forward momentum.



METRORAIL MAIN STREET LINE MAJOR INVESTMENT STUDY AND FINAL DESIGN  
HOUSTON, TEXAS

## Traffic Solutions

Walter P Moore's distinctive traffic engineering solutions help our commercial, governmental, institutional and industrial clients address traffic planning, design and control issues. Our services minimize congestion, improve street and highway safety, optimize property access and egress, accommodate pedestrians and vehicle traffic, combine mobility with aesthetics and find funding sources for projects.

We address our clients' traffic management challenges with traffic signal designs, transit systems and traffic impact study projects that reduce their infrastructure improvement costs with clearer graphics and signalization, improved parking layouts and better security. We work in the early planning stages of projects, through the design and construction phases, and during agency coordination and public involvement.

Our innovative traffic engineering projects — including intelligent transportation systems, traffic signal design, transit systems and traffic impact studies — are often done in collaboration with our civil, ITS, transportation and structural engineers and parking consultants.

## Providing Optimal Mobility

- **Corridor and Feasibility Studies** give the big picture of traffic conditions by considering elements like intersections, right-of-way conditions and traffic volumes. Our traffic engineering solutions helped lay the groundwork for Houston's first light-rail line and provide signal preemption for emergency vehicle and bus transit.
- Our **Multimodal and Intermodal Studies** cover air and rail facilities for goods and passengers. Our efforts improved the operational efficiency of metropolitan transit centers to keep transit vehicles and passengers coming together, have routed transit for the largest medical center in the world and help move travelers within Houston's Bush Intercontinental Airport.
- When new or expanded projects will increase traffic volumes or modify traffic and pedestrian patterns, **Operational and Capacity Analysis** studies provide understanding needed for planning and design. Our studies have shown rail and toll road authorities how to configure street cross-sections and intersections for optimal mobility and safety during road widening, how a hospital could maximizing garage capacity in a dense urban campus and how comprehensive improvements can address future development.

- Clients such as state transportation agencies and real estate developers use our **Signalization** designs for intersection traffic control to optimize signal timing for emergency vehicle and bus transit preemption, improve traffic flow and reduce delays.
- **Signing, Pavement Marking, Delineation and Lighting** designs have enhanced widening and utility improvements, widening of business thoroughfares, and traffic management and streetscape improvement programs. Our solutions also benefit interstate highways, toll roads, parking lots and neighborhood streets.
- From a Major League Baseball park, a suburban hospital, a medical center parking garage to new real estate developments, our **Traffic Impact Studies** give agencies a comprehensive determination of impacts. We understand agency requirements and uncover issues early in the process.
- **Traffic Simulation and Modeling** of scenarios at an intersection, along a roadway or on a pedestrian walkway gives clients added insight on potential traffic solutions. These visual tools give developers and public agencies the ability to help stakeholders visualize different traffic scenarios.
- Our **Urban Transportation Master Plans** help urban planners with the public outreach and approval process inherent in urban redevelopment projects. These have resulted in an award-winning traffic management and streetscape improvement program, comprehensive improvements to address future development and improved coordination to meet area needs.



MILAM TRANSIT STREET IMPROVEMENTS  
HOUSTON, TEXAS

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METROSOLUTIONS UPTOWN CORRIDOR  
HOUSTON, TEXAS

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### What We Do

Founded in 1931, Walter P Moore is headquartered in Houston, Texas, with more than 400 professionals in full service offices from coast to coast.

Our civil, traffic, transportation, structural, and structural diagnostics engineers and parking consultants help clients turn their ideas into reality, from urban roadway systems and other infrastructure to healthcare and education facilities, corporate campuses, airports, sports stadiums, convention centers, and entertainment centers. Our clients are government agencies, architects, corporations, institutions, developers and contractors. If all of our work with them were put together, it would form a vibrant city with every functional and discretionary amenity, great mobility, superior disaster protection and a plan for the future. In short, *a city that works because our solutions work.*

# WALTER P MOORE

## **CORRIDOR AND FEASIBILITY STUDIES**

METRORAIL MAIN STREET LINE MAJOR INVESTMENT STUDY AND FINAL DESIGN *HOUSTON, TEXAS*

METRORAIL SOUTHEAST CORRIDOR MAJOR INVESTMENT STUDY *HOUSTON, TEXAS*

## **MULTIMODAL AND INTERMODAL STUDIES**

BUSH INTERCONTINENTAL AIRPORT AUTOMATED PEOPLE MOVER PHASE 3 *HOUSTON, TEXAS*

METRO TRANSIT CENTERS *HOUSTON, TEXAS*

TEXAS CHILDREN'S HOSPITAL TRANSIT STUDY *HOUSTON, TEXAS*

## **OPERATIONAL AND CAPACITY ANALYSIS**

MEMORIAL CITY TRAFFIC STUDY *HOUSTON, TEXAS*

UNIVERSITY OF TEXAS/M.D. ANDERSON CANCER CENTER ADMINISTRATION GARAGE *HOUSTON, TEXAS*

WEST LITTLE YORK WIDENING, AIRLINE TO HARDY TOLL ROAD *HOUSTON, TEXAS*

## **SIGNALIZATION**

HARRIS COUNTY PRECINCT 3 AND 4 INTERSECTION IMPROVEMENTS *HOUSTON, TEXAS*

NORTHWEST CORRIDOR SIGNAL SYSTEM IMPROVEMENTS *HARRIS COUNTY, TEXAS*

TRAFFIC SIGNAL TIMING SERVICES, TXDOT LAREDO DISTRICT *EAGLE PASS, TEXAS*

## **SIGNING, PAVEMENT MARKINGS, DELINEATION AND LIGHTING**

SAN FELIPE WIDENING, YORKTOWN TO SAGE *HOUSTON, TEXAS*

UPTOWN HOUSTON TRAFFIC MASTER PLAN STREETScape AND MOBILITY IMPROVEMENTS *HOUSTON, TEXAS*

WEST LITTLE YORK WIDENING, AIRLINE TO HARDY TOLL ROAD *HOUSTON, TEXAS*

## **TRAFFIC IMPACT STUDIES**

BMC SOFTWARE HEADQUARTERS *HOUSTON, TEXAS*

METHODIST SUGAR LAND HOSPITAL *SUGAR LAND, TEXAS*

MEMORIAL CITY TRAFFIC STUDY *HOUSTON, TEXAS*

MINUTE MAID PARK *HOUSTON, TEXAS*

UNIVERSITY OF KANSAS MEDICAL CENTER GARAGE NO. 3 *KANSAS CITY, KANSAS*

## **TRAFFIC SIMULATION AND MODELING**

METRORAIL SOUTHEAST CORRIDOR MAJOR INVESTMENT STUDY *HOUSTON, TEXAS*

METROSOLUTIONS UPTOWN LINE *HOUSTON, TEXAS*

METRORAIL MAIN STREET LINE MAJOR INVESTMENT STUDY AND FINAL DESIGN *HOUSTON, TEXAS*

## **URBAN TRANSPORTATION MASTER PLANS**

ENERGY CORRIDOR DISTRICT ENGINEERING CONSULTING *HOUSTON, TEXAS*

GREENWAY PLAZA, PHASES III & IV *HOUSTON, TEXAS*

HERMANN PARK TRAFFIC MANAGEMENT *HOUSTON, TEXAS*

MEMORIAL CITY TRAFFIC STUDY *HOUSTON, TEXAS*

REGENT SQUARE *HOUSTON, TEXAS*

TEXAS MEDICAL CENTER AREA TRANSPORTATION MASTER PLAN *HOUSTON, TEXAS*

UPTOWN HOUSTON TRAFFIC MASTER PLAN STREETScape AND MOBILITY IMPROVEMENTS *HOUSTON, TEXAS*

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LAS VEGAS LOS ANGELES ORLANDO SAN FRANCISCO TAMPA TULSA