

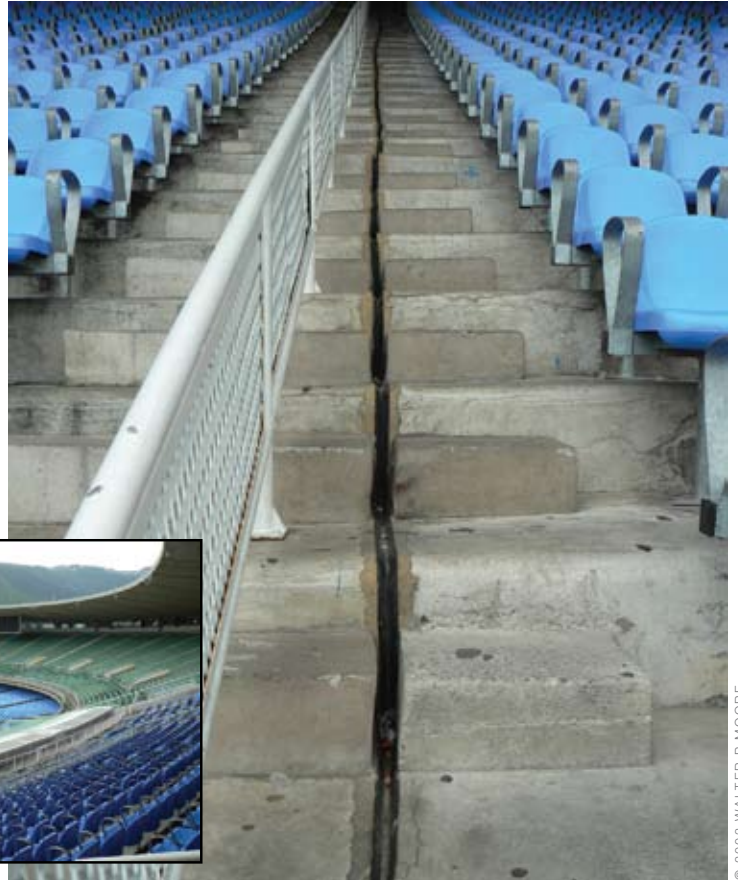


STRUCTURAL DIAGNOSTICS

WALTER P MOORE

STRUCTURAL DIAGNOSTICS SERVICES

Complex restoration, rehabilitation and forensic engineering challenges need structural diagnostics experts to uncover plausible causes of distress. Walter P Moore's solutions extend a structure's useful life, often improving on the original design.



ASSESSMENT OF DURABILITY ANALYSIS IS OFTEN NEEDED TO EXTEND THE SERVICE LIFE OF A STADIUM.

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Diagnosing Wear and Tear

Natural disasters and ongoing deterioration mechanisms have a dramatic effect on structures. Cladding attachment problems in a high-rise condominium can dramatically increase life-safety risks for occupants. Foundation movement can put a local community center on unstable ground. Failing or corroded concrete in a parking or bridge structure may have a serious impact on its level of service. Age and daily wear-and-tear can leave a sports stadium in dire need of comprehensive rehabilitation effort. When our clients encounter complex restoration, rehabilitation and forensics engineering challenges such as these, they look to us for solutions that work.

Walter P Moore's diagnostic engineers determine causes of distress, assess load carrying capacities, solve vibration problems and address serviceability challenges for a wide variety of structures.

Maximized Return on Investment

Our experts help restore the potential market value of deteriorated structures, determine the cause and origin of failures, help settle insurance claims and testify as experts in landmark litigation cases. With creative approaches to our repair design solutions, we are able to meet our clients'

highest expectations. New technologies and analytical tools—including some that our engineers have developed in-house—enhance our diagnostic capabilities.

What We Do

Founded in 1931, Walter P Moore is among the most respected engineering firms based in the U.S. Headquartered in Houston, Texas, we have more than 400 professionals in full service offices working on projects across the country and internationally.

Our structural, structural diagnostics, civil, traffic and transportation engineers and parking consultants help clients turn their ideas into reality, from healthcare, research and education facilities to corporate campuses; from airports and sports stadia to convention and entertainment centers; and urban roadway systems and other infrastructure. Our clients are architects, corporations, institutions, developers, government agencies 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 and earthquake protection and a plan for the future. A city that works because *our solutions work*.

BRIDGE ASSESSMENT AND REHABILITATION



Bridges are subject to extreme environmental conditions and repetitive vehicular loading. We provide evaluation, testing and repair services to increase their life span and ensure public safety.

BUILDING ENVELOPE AND CLADDING



To ensure structural performance, we provide evaluation, repair and ongoing maintenance of stone and masonry facades. We address moisture intrusion and performance issues with curtain wall systems, exterior insulation and finish systems, plazas, deck systems and roofing systems.

CORROSION EVALUATION AND MITIGATION



On-going corrosion and associated deterioration affect a variety of structures in diverse exposure conditions. Our solutions help mitigate the effects by measuring and monitoring ongoing corrosion activity using specialized diagnostics equipment.

EMERGENCY RESPONSE



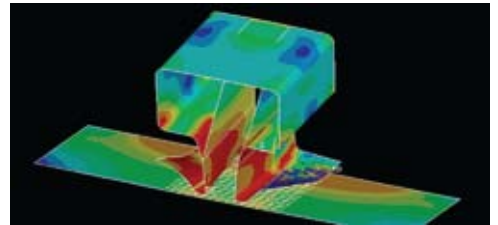
When catastrophic events occur—such as hurricanes, tornados, earthquakes, floods and fires—our engineers will quickly mobilize to verify the integrity of a structure and provide immediate and short-term courses of action.

FIRE DAMAGE REVIEW, ASSESSMENT AND REPAIR



Walter P Moore will expeditiously assess the nature and extent of fire damage to structural elements and restore the integrity, where possible, without the need for extensive demolition.

FORENSIC AND FAILURE INVESTIGATIONS



When structures fail, we will examine the failure or accident site and perform a comprehensive review to understand the problem's principal cause(s).

HISTORIC PRESERVATION



Walter P Moore specializes in extending the life of heritage structures, respecting the spirit and context of the original, yet incorporating the reality of today's operational environment. Our services include assessment, preservation and restoration.

LITIGATION SUPPORT



Our expert witness capabilities includes all areas of structural design, analysis, repair and building envelope issues, including foundation failures, moisture intrusion problems, wood failures, failures of concrete and steel structures, errors and omissions in construction documents, and materials defects.

NON-DESTRUCTIVE EVALUATION



Walter P Moore provides an extensive array of Non-Destructive Evaluation (NDE) technologies for new and existing structures that allow us to avoid making invasive exploratory openings.

PARKING GARAGE RESTORATION & MAINTENANCE



Our consultants determine the causes for distress in a variety of parking garage types. We provide long-term solutions that include development of construction documents and maintenance plans.

STRUCTURAL EVALUATION AND REHABILITATION



Today, functionally outdated and older structures are routinely restored, structurally enhanced and cleverly adapted for reuse. Working with a variety of structural systems, we have the extensive structural rehabilitation experience needed to modify, strengthen or repair existing structures.

VIBRATION CONSULTING



Our engineers diagnose vibration issues and provide effective solutions that help clients protect their investments from unacceptable levels of structural vibration.

WALTER P MOORE

We have provided solutions to clients nationwide, including:

AMERICAN AIRLINES
ANDREWS MYERS COULTER & COHEN
BP AMERICA
BRYAN CAVE, LLP
CB RICHARD ELLIS
CITY OF DURHAM, NORTH CAROLINA
CITY OF HOUSTON, TEXAS
CITY OF LAWRENCE, KANSAS
CITY OF NORFOLK, VIRGINIA
CITY OF ORLANDO, FLORIDA
COOPER & SCULLY
CRESCENT REAL ESTATE EQUITIES
EXXONMOBIL
GENSLER
HADP ARCHITECTURE
HAMLIN, GRIFFIN & KOHNKE
HARRIS COUNTY TOLL ROAD AUTHORITY
HIGHWOODS PROPERTIES
HKS
HOK
JOHNSON COUNTY, KANSAS
JONES, CORK & MILLER
LAKEWOOD CHURCH
LOWER COLORADO RIVER AUTHORITY
MORRIS ARCHITECTS
OMNIPLAN ARCHITECTS
P&W ARCHITECTS
PARK NATIONAL BANK
SCOTT, MONEY & RAY
STARK WILSON DUNCAN ARCHITECTS
TEXAS A&M UNIVERSITY SYSTEM
THE HOUSTON CHRONICLE
THE HOUSTONIAN ESTATES
THE UNIVERSITY OF TEXAS SYSTEM
TIAA-CREF
TRADEWINDS OF VOLUSIA
UNIVERSITY OF CENTRAL FLORIDA
UNIVERSITY OF TEXAS M.D. ANDERSON CANCER CENTER

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