HALLIWELL

MATTHEW MOORE, P.E.

ASSISTANT DIRECTOR, ENGINEERING SERVICES
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SPECIALTIES

- Commercial and Low-slope Roof System Damage Analyses and Restoration
- Structural Forensic Evaluations: Fire, Wind, Storm Surge, and Collapse
- Code Compliance Reviews
- Building Envelope Failure Analyses
- Construction Defect Analyses
- Storm Damage Evaluations; Hail, Water, Wind
- Steel, Concrete, Masonry, and Wood Framed Structures
- Failure Cause Analyses
- Moisture Intrusion Analyses
- Scope of Damage Analyses and Conceptual Repair Recommendations
- Analysis of Code-Allowed and Manufacturer-Recommended Repair Options
- Energy Code Compliance Analysis in Conjunction with Restoration/Repair Projects
- Construction Document Reviews and Analyses
- Intentional Mechanical Damage Analyses
- In-situ Roof System Testing (infrared, moisture survey, uplift)
- Date of Damages Determinations
- Commercial, Multi-Family, and Single-Family Residences
- High-rise Buildings and Multi-unit Complexes

BIOGRAPHY

Matt is a Licensed Professional Engineer who provides forensic engineering and consulting services to various clients such as insurance companies, attorneys, and private entities. His professional services have included damage assessments, root cause analyses, scope of damage assessments, repair and remediation plans, code requirement reviews, and construction defect analyses. He specializes in roof and building envelope failure analyses, structural damage assessments, collapse evaluations, scope of repairs determinations, construction defect assessments, material forensic testing, and in-situ testing of roofing assemblies.

Matt's experience has included assessment of many different roof types and a wide array of roofing assemblies. He has provided failure/damage consulting services and storm-related damage analysis for thousands of properties ranging into multi-million dollars that include single- and multi-family dwellings, commercial buildings, hospitals, shopping malls, universities, military establishments, high-rise buildings, commercial properties, manufacturing complexes, churches, multi-family facilities, private residences, and many others. Matt has also conducted assessments of many different structural systems ranging from single-family residences, multi-family residences, and mid-to-large scale

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commercial buildings. These assessments determined the extent of damages related to fires, hurricanes, storm surge, flooding, tornadoes, and/or construction defect.

QUALIFICATIONS

Bachelor of Architectural Engineering, Penn State University

INDUSTRY CERTIFICATIONS, LICENSES AND MEMBERSHIPS

- Licensed Professional Engineer: TX, OK, AR, MN, NM, LA, MO

PROFESSIONAL EXPERIENCE

- Halliwell, Forensic Engineer, Civil/Structural Engineering Services
- Halliwell, Engineering Project Manager
- J.S. Held, Project Engineer
- Providence Engineering Corporation, Intern

REPRESENTATIVE ASSIGNMENTS

Structural

Structural Fire Damage Assessment | Monticello, Arkansas
Evaluated the extent of fire-related damage to the steel structural system of a warehouse and manufacturing facility. Provided a conceptual scope of necessary repairs.

Structural Collapse Damage and Cause Assessment | Corsicana, Texas
Evaluated the cause of collapse to a 1960s-era manufacturing facility building. Determined the extent of damage, evaluated local building code requirements, and provided a conceptual scope of repairs.

Structural Hurricane Damage Assessment | Fort Myers, Florida
Evaluated the extent of wind-caused damage and storm-surge caused damage to a condominium building as a result of the passage of Hurricane Ian and provided a conceptual scope of repairs.

Structural Derecho Damage Assessment | Houston, Texas
Evaluated the extent of damage to a motorcycle dealership as a result of winds during a derecho. Additionally, evaluated the extent of damage due to a neighboring structure collapsing on the subject property.

Structural Fire Damage Assessment | Houston, Texas
Evaluated the extent of fire-related damage to the steel structural system of a shopping center and provided a conceptual scope of necessary repairs.

Structural Collapse | Madill, Oklahoma
Evaluated the extent of collapse-related damage to the combination steel and concrete structural system of a manufacturing and distribution facility related to accumulation of ice and snow. Additionally,

evaluated locally adopted building code provisions and provided a conceptual scope of necessary repairs.

Construction Defect | Dallas, Texas
Examined the as-built condition of wall finish details at typical window installations and compared the as-built condition to design documents and installation details. Assessed the as-built condition and provided a conceptual scope of repair.

Building Envelope

Storm Damage Assessment | Dallas, Texas
Leading a team of engineers and roofing experts as the Engineer of Record, determined the extent of hail-caused damage to the asphalt shingle roofing of 15 apartment complexes and determined when the hail-caused damage was caused.

Storm Damage Assessment | Forney, Texas
Determined the extent of hail-caused damage to the asphalt shingle and low-slope membrane roofing at an apartment complex and provided a conceptual scope of necessary repairs. Evaluate the sources of reported water intrusion and determine the extent of water intrusion related to the wind-caused damage.

Storm Damage Assessment | Waxahachie, Texas
Determined the extent of any hail-caused or wind-caused damage to the low-slope roof coverings across three commercial buildings and provided a conceptual scope of necessary repairs. Further, evaluated when any hail- or wind-caused was created. Roofing materials comprised single-ply membranes, modified bitumen membranes, steel roof panels, and asphalt built-up roofs.

Storm Damage Assessment | Austin, Texas
Determined the extent of hail-caused damage to the roofing on 17 structures and provided a conceptual scope of necessary repairs. Roofing comprised modified bitumen membranes, gravel-ballasted asphalt built-up roofs, single-ply membranes, and steel roof panels.

Storm Damage Assessment | Pacific, Missouri
Determined the extent of hail-caused damage to the roofing on the low-slope roofing at a manufacturing facility. Analysis included inspection, infrared evaluation, and scope of restoration.

Moisture Intrusion Evaluation | Houston, Texas
Determine the source(s) of reported water intrusion into the building envelope of a warehouse facility following the passage of Hurricane Beryl.

Moisture Intrusion Evaluation | Grand Prairie, Texas
Determine the source(s) of reported water intrusion into the building envelope of a commercial building, and if any water intrusion as related to storm-created openings in the building envelope.