HALLIWELL

MATTHEW BURT, PE

FORENSIC ENGINEER, TIME ELEMENT & DELAY ANALYSIS

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SPECIALTIES

- Baseline Schedule Development
- Construction Defect Investigations
- Schedule/Delay Analysis
- Wind-Caused Damage Evaluation
- Inefficiency Claims
- Cost Analyses & Related Measurements
- Building Code Reviews and Analysis
- Fire Damage Evaluation
- Estimating
- Cause & Origin Investigations
- Hail Evaluations
- Storm Surge Damage Evaluation
- Concurrent Causation Analysis

BIOGRAPHY

Matthew is a licensed Professional Engineer with 13 years of experience in diverse international construction and rehabilitation projects in a wide range of construction markets including civil infrastructure, stadium, transportation, medical, vertical construction, commercial, mixed-use, renewable energy, industrial, and residential construction. He offers solutions to complex construction problems through the joint application of engineering principles and schedule delay analysis methodologies. He conducts site investigations in conjunction with extent of damage assessments, building code reviews, cause and origin assessments, schedule analysis, and period of interruption evaluations and applies creative analytical approaches in the gathering of information and analysis of contemporaneous documentation in support of his assessments.

Matthew specializes in conducting delay analysis evaluations, developing as-planned construction schedules, and analyzing time-element related metrics associated with business interruption in property damage claims and evaluates costs arising from delay-related impacts including inefficiency claims and escalation. He also performs engineering-related evaluations to assess the extent of damage resulting from fire, explosion, wind, surge, tornado, and hail incidents and prepares conceptual scope of repair recommendations and conducts reviews of the applicable building code. He performs construction defect evaluations and has been designated as an expert witness in multi-party disputes to opine on the cause of construction defect(s), and has also prepared cost-related measurements in support of alternative dispute resolution proceedings.

Matthew's construction project management experience includes development of baseline schedules, monthly schedule updates, the implementation/monitoring of project controls, project engineering and associated remedial work plans, and the development and preparation of quantum associated with delay claims, through the execution of the contract work for a general contractor constructing large-scale heavy civil public works projects in the water/wastewater treatment plant

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market. Delay claims included design errors and omissions, spatial conflicts represented in drawings, workmanship related defects, and added scope incorporated by way of change orders. He oversaw project performance in monitoring the schedule, buyout cost overruns/savings, and productivity associated with self-perform work including cast-in-place concrete, structural steel, miscellaneous metal fabrications, underground utilities, and process mechanical piping and equipment.

QUALIFICATIONS

Bachelor of Science in Civil Engineering, University of Cincinnati

INDUSTRY CERTIFICATIONS, LICENSES, AND MEMBERSHIPS

- Registered Professional Engineer – MI, MN, NC, OH, TX
- Occupational Health & Safety Administration – 30 Hour Construction Safety & Health

PROFESSIONAL EXPERIENCE

- Halliwell, Forensic Engineer, Time Element & Delay Analysis
- J.S. Held, LLC, Senior Project Manager
- Balfour Beatty Infrastructure, Inc, Project Engineer

REPRESENTATIVE ASSIGNMENTS

Time Element

Mixed-Use Development | Canada
Project involved the construction of multi-use, 10-story, building. A fire occurred during the installation of the roof. Analyzed the contractor and developer's claimed period of delay and provided delay recommendations for the building that sustained damage and for the global development project.

Commercial Infrastructure Project | North Carolina
Project involved the construction of a multi-use commercial and urban high-rise riverfront building. During mat foundation construction, Hurricane Florence caused impacts to the project resulting in damage to completed work and delays to the project.

Commercial Hotel Fire | New Hampshire
Project involved assessment of fire damage sustained to a waterpark/hotel resort. Significant damage was sustained resulting in the consumption of an entire wing of the hotel. Developed a theoretical baseline schedule to forecast the time required to rebuild the hotel wing and perform repairs to other portions of the interconnected structures. Conducted a structural evaluation to develop a conceptual scope of repairs and a review of the building code was performed to determine the anticipated improvements expected to be enforced by the local building authority.

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Multi-Family – Multi-Location Residential Complex | Florida
Varying degrees of damage were sustained to approximately 180 multi-family buildings as a result of Hurricane Ian. Developed a theoretical baseline schedule to forecast the time required to perform the repairs. Utilizing an estimate prepared by cost consultants, an estimated manhour requirement was derived and analyzed to quantify the duration for the schedule activities. The information was then checked against prior performance which was evaluated by analyzing permit data on record by the local building authority from repairs conducted as a result of Hurricane Irma.

Commercial Apartment Complex | Texas
Three multi-family podium style apartment buildings sustained damage to the interior finishes as a result of frozen pipes during construction. Analyzed the contractor and developer's claimed period of delay, provided support to a forensic accountant, and evaluated the contractor's extended general conditions costs.

Industrial Warehouse | Texas
An industrial warehouse facility sustained damage to the concrete foundation slab as a result of a crane collapse during construction. Analyzed the contractor's claimed period of delay and corresponding direct costs and extended general conditions costs.

Manufacturing Facility | South Dakota
A dairy manufacturing plant sustained damage as a result of a fire/explosion within a 24-foot diameter stainless steel bin. Analyzed the plant's claimed period of interruption and assessed whether non-incident related repairs affected the overall repair timeline, and evaluated the costs associated with the repairs.

Professional Football Stadium | New York

Project involved the construction of a new professional football stadium. During construction, issues were identified in the concrete flatwork on the concourses. Reviewed project schedules to evaluate potential impacts resulting from repair activities to remediate the concrete. Provided supplemental engineering-related support to assess extent of distress concrete flatwork.

Light Rail Bridge | Washington

Project involved the construction a light rail project over multiple work segments next to a heavily trafficked public right of way. During construction, the contractor was in the process of implementing temporary access to support construction activities for construction of a bridge in one of the work segments and stability issues were encountered. Developed a theoretical repair fragnet to forecast the timeline to reinstate the temporary access and impacted the project schedule to estimate potential project delays.

Damage Assessments

Industrial | Tennessee
Tornado-caused damage to an industrial distribution facility. Due to the extent of damage, and in an effort to mitigate business interruption costs, the insured relocated to a larger facility. Evaluated the cost of constructing tenant improvements in larger space and the incremental increase

associated with the larger footprint, evaluating code upgrade costs and elective improvement costs to the electrical systems.

Commercial | North Carolina
Car impact to a commercial automotive oil change building constructed with masonry caused extensive building damage. Research of the local code stipulated unique requirements involving demolition of the structure, including the foundation. Estimated code upgrade and property damage costs.

Commercial Multi-Family | Florida
The site consisted of two 21-story high-rise buildings with condominium units and a link connecting the towers which sustained damage as a result of Hurricane Ian. Conducted a cause and origin assessment to evaluate damage sustained to exterior cladding elements, moisture intrusion at the interior of the structure, and developed a conceptual scope of repairs.

Commercial Multi-Family | Georgia
A fire occurred during construction of a wood framed apartment building. Conducted an assessment to determine the extent of damage and developed a conceptual scope of repairs to address the damage.

Dry Boat Storage | Florida
The site consisted of dry boat storage facilities and supporting retail offices that sustained damage as a result of a tornado. Conducted a cause and origin assessment to evaluate the extent structural damage as a result of the tornado and developed a conceptual scope of repairs to address the damage.

Commercial Retail | Minnesota
An explosion occurred in a mechanical penthouse of a multi-story commercial retail facility. Conducted an assessment to evaluate the extent of structural damage as a result of the tornado and developed a conceptual scope of repairs to address the damage.

General Contracting

Wastewater Treatment Plant | Maryland
$240M. Three lump-sum contracts were issued which involved the construction of new infrastructure resulting in an increase to plant capacity and tertiary treatment enhancements. Work performed under the contracts included construction of two reinforced concrete primary treatment structures, a reinforced concrete pumping station, structural steel operations facility, composite masonry chemical storage facility, two pipe bridges, and retrofit of existing plant infrastructure. He developed quantum associated with delay claims, in addition to other administrative functions including the implementation and monitoring of the project controls plan. In many cases, delay claims were prepared prospectively and involved the development of an initial as-planned additive fragnet.

Water Treatment Plant | Virginia
$38M. Lump-sum contract involving the construction of new primary treatment infrastructure and

implementation of new disinfection process. Project involved construction of a new pumping station, reinforced concrete water holding structures supported by auger-cast piles. All work was conducted while the existing plant-maintained operations and capacity.

Recent Testimony

Utility-Scale Cooling Tower | Florida

Expert designation in Alachua County, Florida. Evaluated the necessary and reasonable cost to repair damage sustained to a cooling tower operated by a public utility. The cooling tower was constructed with fiber reinforced plastic structural components, included various mechanical systems, and reinstatement of proprietary equipment necessary to the operation of the cooling tower.

Residential Maintenance Construction Defect | North Carolina

Expert designation in the County of New Hanover, North Carolina. Assessed the installation of roof fasteners on forty-five residential structures. Prepared an engineering cause and origin report, participated in mediation, and gave deposition providing an opinion concerning fastener installation, moisture intrusion at the interior of structure, and corresponding conceptual scope of repairs.

Commercial New Construction | North Carolina

Expert designation in the County of Pitt, North Carolina. Project involved the construction of a podium style apartment complex intended for university housing. Assessed work completed by the roofing subcontractor for the project and opined on the presence of defects, and whether moisture intrusion and related damage had occurred as a result of the defects. Prepared an engineering cause and origin report, gave deposition in relation to roofing-related aspects of construction, and prepared a repair estimate.

Residential New Construction | North Carolina

Project involved the construction of a high-end residential dwelling with unique construction materials and methods. During the course of construction, the structure caught fire and resulted in significant damage. Assessed repair costs and performed an evaluation to estimate construction escalation costs. Gave deposition testifying to the framework of the cost analyses that were performed.