



James T. Hamje, P.E.
Construction Consultant

Delaware Valley Construction Consulting, P.C.

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Education

- BS Civil Engineering New Jersey Institute of Technology
- MS Civil Engineering Drexel University
- OSHA Construction Safety Certificate

Registrations

- Professional Engineer: Pennsylvania and New Jersey

Summary of Experience

Thirty-eight years of progressive experience in civil engineering, including design, construction management, expert services, CPM scheduling, estimating, calculation of damages, inspection and testing. Projects involved commercial and residential high-rise buildings, hotels, prisons, hospitals, stone cladding systems, airports, military facilities, schools, universities, landfills, wastewater treatment plants, pharmaceutical, FGD, power plants, aerospace manufacturing, industrial facilities, roadways and underground utilities.

Consulting Experience

As Construction Consultant, Mr. Hamje has extensive experience in CPM time impact schedule analyses, engineering errors and omission analysis, labor inefficiency studies, damage computations, preparation of contractor claims, and detailed technical analysis of project financing, design issues and contract interpretation. Mr. Hamje has provided expert testimony in court, arbitration and international arbitration and provided negotiation assistance in numerous dispute resolution forums.

Schedule Delay Analysis

Mr. Hamje has performed numerous complex CPM schedule delay analyses utilizing current court-accepted methodologies, mostly Time Impact Analysis and also As-Built Schedule Analysis and Impacted As-Planned Schedule Analysis and presented complex analyses to arbitration panels and juries.

Culvert Construction, Mahwah, NJ: Analysis of the impacts of extended sheet piling and prefabricated culvert submittals, utility relocation and differing site conditions leading to termination of the contractor.

Condominium High-Rise, Wilmington, DE: Analysis of contractor's CPM schedule to determine feasibility of completing a condominium high-rise within a 10-month deadline.

University Science Wing, NJ: Retained by A/E to analyze delays due to code compliance issues, design changes and retrofit of fire dampers in HVAC system.

Power Plant, Cambridge, MA: Analysis of change orders, permitting, and architectural design impacts to schedule for design-build gas-fired cogeneration power plant.

University Athletic Facility, Chapel Hill, NC: Analysis of workmanship issues, delays and performance of athletic turf and track systems for indoor athletic facility.

High Rise Courthouse, Cleveland, OH: Prepared time impact analysis of stone cladding fabrication and erection delays, tower crane sequencing and concrete building core construction.

Power Plant, Londonderry, NH: Evaluation of structural design, piping and electrical delays to design-build power plant project.

Hotel, Charlotte, NC: Analysis of delays to building structure leading up to termination of the general contractor.

Ben Franklin Elementary School, Philadelphia, PA: Analysis of schedule delays caused by contaminated soils and structural steel coordination.

Wastewater Treatment Plant: Analysis of schedule delays to sand filtration system procurement and installation for wastewater treatment plant.

Desulphurization System, Taiwan: Analysis of procurement delays for equipment designed and supplied for FGD system serving a coal-fired power plant in Taiwan.

Desulphurization System, Turkey: Analysis of construction and procurement delays for FGD system serving a coal-fired power plant in Turkey.

Hotel Building, Alpharetta, GA: Schedule delay analysis and analysis of technical issues such as A/C unit installation details, differing soil conditions, and architect's standard of care.

Prison Facility, Chester, PA: Analysis of delays and termination of sitework & utilities subcontractor and miscellaneous metals subcontractor.

Middle School, Elizabeth, NJ: Analysis of contractor delays, contractual issues, structural steel erection and drywall framing. Contractor claimed costs were evaluated.

VA Hospital, Boston, MA: Analysis of constructive acceleration by Owner. Due to no baseline schedule, delay analysis was based on as-built schedule.

Ras Tanura Oil Refinery, Saudi Arabia: Extensive analysis of design-build issues for \$115 million contract including preparation of \$60 million claim. Innovative graphics were created to depict engineering and construction acceleration and delays to drawing development.

Faber Elementary School, Dunellen, NJ: Expert for School Board defense of differing site conditions and construction delays for new elementary school construction.

Office High Rise, Boston, MA: Prepared time impact analyses for design, testing, fabrication and erection of granite cladding system for 75 State Street building. An extensive analysis of subcontractor costs and labor inefficiency was performed.

Downstate Prison, Fishkill, NY: Analyzed foundation delays and additional costs arising from differing site conditions and winter concrete and masonry labor inefficiency.

Psychiatric Hospital, New York: Evaluated HVAC, radiant heat piping and RF Shielded room coordination and acceleration issues.

Sheraton Hotel, Stamford, CT: Analyzed foundation and steel erection delays and finishes changes by the Owner. 3D models were used to demonstrate complex construction sequencing of slabs-on-grade at seven levels.

Peabody Hotel, Orlando, FL: Schedule and technical evaluation for CM involving fast-track design delays and impact of curtainwall subcontractor bankruptcy.

Metropolitan Plaza, Atlantic City, NJ: Prepared contractor claim involving precast shop drawing delays, code compliance issues and water infiltration problems with EIFS cladding.

Social Security Building, New York City, NY: Performed complex CPM time impact analysis involving delays to shoring & sheeting, foundations, structural steel, exterior masonry, windows, mechanical and electrical work. The impact of changes and acceleration to schedule and the project budget was evaluated.

King Khalid Military City, Saudi Arabia: Schedule analysis of design, fabrication and erection of barracks utilizing over 25,000 precast concrete elements on a \$1 billion project.

Forensic Engineering

Mr. Hamje has investigated the cause of structural collapses, masonry wall failures, failures of composite deck materials and various residential structure failures.

Public Housing Project, Plymouth, MA: Analysis of buckling of synthetic composite plastic/wood decking, construction delays and water infiltration problems.

Elementary School, Moscow, PA: Analysis of failure of exterior masonry cast stone veneer cavity wall. Performed inspection of reconstruction of the veneer wall.

High School Roof Collapse, Hazleton, PA: Forensic analysis of steel joist roof collapse at a high school due to excessive snow loads and design/coordination errors.

Bookstore Roof Collapse, Christiana, DE: Forensic analysis of roof collapse under high snow loads. Evaluated design calculations, BOCA Code application, maintenance of the roof and steel joist manufacturing defects.

Moshulu Restaurant, Philadelphia, PA: Forensic analysis of failure of synthetic composite plastic/wood decking for restoration of a historic tall ship converted into a floating restaurant.

Residential: Investigation and remediation of water infiltration, structural problems and collapses for various residential properties.

Financial Damages Evaluation

Mr. Hamje has prepared contractor claims, evaluated damages asserted by contractors, owners and engineers, and has testified in arbitration and court on financial damages.

Residential Subdivision, Bucks County, PA: Evaluation of financial damages claimed by a developer due to a subdivision survey error.

Athletic Facility, Harrisburg, PA: Evaluation of general contractor and subcontractor claims for delay costs, manpower inefficiencies and labor/material escalation.

Interstate Plaza, Springfield, VA: Detailed review of developer's project budgets on behalf of the lending bank to prove manipulation of soft costs in order to conceal construction overruns.

Showboat Casino, Atlantic City, NJ: Prepared drywall subcontractor claim to recover costs from extensive acceleration and change order impacts.

Technical Analysis

Utilizing in-depth knowledge of civil engineering and building standards and codes, Mr. Hamje has provided diverse technical consulting services.

Residential renovations, Philadelphia, PA: Analysis of scope and cost of renovations for residence subjected to loan termination. Testified in court as to quality, code compliance and costs of construction.

Residential High Rise, Philadelphia, PA: Analysis of contractor workmanship for renovation of high rise structure, including gas piping systems, elevators, roofing and interior finishes.

Historical Restoration, Atlantic City, NJ: Analysis of impacts due to asbestos abatement and design changes for ceiling restoration of an historic arched structure.

U.S. Navy: Analyzed ship building design, compliance with ABS standards, and assembly delays for prototype torpedo testing and retrieving vessels.

Hyattsville Justice Center, MD: Analysis of backfill unit price issues, limestone cladding, utility relocation and extensive design clarifications for courthouse project.

Hickam Air Force Base, Honolulu, HI: Technical evaluation of soil and asphalt pavement compaction testing procedures for runway expansion project.

World Financial Center, New York: Developed detailed tracking of fabrication and erection delays to granite cladding system.

Coast Guard Barracks, Kodiak, AK: Analyzed timber glu-lam structural design problems and fabrication delays, and delays and costs of asbestos removal.

Smithsonian Museum Storage Facility, Suitland, MD: Technical analysis of design and code compliance for state-of-the-art museum storage system constructed under performance specs.

Errors and Omissions Analysis

Mr. Hamje has worked on behalf of architects and engineers or owners in evaluating errors and omissions and their impact on the project schedule and budget.

Community College, Philadelphia, PA: Analysis of the scope of work added by design errors and omissions and the impact to schedule for construction of an addition and extensive renovations. Issues were predominantly unforeseen underground conditions, structure and matching existing conditions. Testified in court before a jury.

Firehouse, Tinicum, PA: Evaluated errors and omissions in contract documents and the resultant impacts to schedule and costs after contractor was terminated for default.

High School Athletic Facilities, Pittsburgh, PA: Analysis of retaining wall design and construction delays, grading and underground utility construction.

Pharmaceutical Plant, LaPorte, TX: Analysis of impact of engineering errors and omissions to construction schedule for bulk pharmaceutical plant.

Singapore Pharmaceutical Plant: Analysis of engineering performance utilizing state-of-the-art 3D CADD and IT systems in design of major grassroots bulk manufacturing facility.

American Express Building, New York City, NY: Evaluation of financial impact of placement of metering for electrical power consumption at high rise office building.

Labor Inefficiency Analysis

Mr. Hamje is well versed in calculating lost worker productivity using various court-accepted techniques in the construction industry.

High School, Beacon Falls, CT: Analysis of masonry productivity based on bid rates and actual production. Analysis of impact to other contractors and schedule delays.

VA Hospital, North Chicago, IL: Project Manager for claim involving concrete labor inefficiency, HVAC, sprinkler and electrical coordination, and VA furnished equipment delays. Participated in ADR proceedings under VABCA.

Desulphurization Ductwork, Tennessee: Analysis of impact of design changes and acceleration to fabrication and erection of retrofit ductwork (2,000 tons) for power plant.

Ford Ranger Plant, Edison, NJ: Refuted labor inefficiency claims for plant refitting of paint spray booths and mechanical systems on an aggressive schedule.

Construction Management & CPM Scheduling

Mr. Hamje is engaged in the construction industry providing CPM scheduling and construction management services.

Numerous Retirement Apartments, MD: Schedule consultant acting for developer of numerous retirement community apartments. On-going assignment evaluating contractor schedules, time extension requests and evaluation of claims.

High School Renovations, PA: CPM scheduling for phased high school renovation project.

Historic Miner's Village, PA: CPM scheduling for multiple building custom renovations for Historic mining village housing structures.

Landfill, Frederick, MD: CPM scheduling and change order negotiation assistance for construction of landfill with HDPE liner and leachate removal systems.

Microtel Hotel, Atlanta, GA: Project Management Oversight for completion of hotel project following termination of general contractor.

Sewer Construction, Westfield, NJ: CPM scheduling for contractor constructing sanitary sewers, lift stations and other structures.

Philadelphia Int'l. Airport: On-site construction engineer responsible for schedule, contract compliance, inspection and safety during construction of new Terminal "A" project.

Merck Pharmaceutical Plant, West Point, PA: Consulting for in-progress plant design/build construction to resolve problems with labor efficiency and schedule for process piping. Also negotiated subcontractor claims on behalf on Owner and Design/Build team.

Wastewater Treatment Plant, Hatboro, PA: On-site inspection, scheduling and construction management services for plant expansion and renovation.

High Rise Hotel, Secaucus, NJ: CPM schedule review and oversight for Meadowlands Sheraton hotel construction.

Personal Injury

Mr. Hamje has provided expertise in personal injury cases involving deficient construction.

Train Station, Philadelphia, PA: After an injury sustained by a person falling off concrete stairs, evaluation of inspection of construction of the stairs in accordance with plans and the building code.

General Engineering Experience

As Geotechnical Engineer, designed and inspected building, bridge and utility foundations, roadways, and retaining structures. Performed geotechnical field explorations and laboratory soils testing, prepared geotechnical reports, and inspected dewatering and underpinning operations. Knowledgeable in the specification and use of geosynthetics.

Completed certified OSHA training in Occupational Safety and Health for the Construction Industry. Knowledgeable in application of BOCA, AISC and ACI Codes, and structural steel, reinforced concrete, masonry, and timber design of building structures.

Publications/Seminars

Lessons Learned in Construction Management and Contracting