

# RAYMOND W. HENN

## OWNER

Mr. Henn has more than 44 years of heavy and underground construction experience with a concentration in shafts and tunneling, hydroelectric, water and wastewater, and transportation projects. During his career, Mr. Henn has held positions from field engineer through superintendent to construction manager and chief consultant on both direct-hire construction, and construction management assignments. The projects have ranged in value from \$2M to \$1.8B. He has a strong background in general civil construction, mass and specialty concrete placement, grouting programs, deep foundations, as well as shaft and tunnel excavation, and final linings. Mr. Henn's underground experience includes conventional drill and blast, tunnel boring machine, roadheader, sequential excavation methods and trenchless excavation methods in hard rock, mixed-face, and soft-ground conditions. He has experience with deep shaft and large chamber excavations, as well as pressure tunnels. He has worked extensively with cast-in-place and precast concrete, shotcrete, and various types of pipe tunnel lining systems. His foundations background consists of mass excavations, geotechnical and structural grouting, sheet piling, construction dewatering, post tension anchors, rock bolting, soldier pile and lagging, structural slurry wall construction, and drilled shafts.

Mr. Henn provides consulting to engineers, contractors, owners, attorneys and insurers for heavy and underground construction projects. He provides specialty construction consulting services in areas of underground grouting, constructability and claims avoidance reviews, performing claim evaluations and negotiations, litigation support, expert witness services, construction methods and equipment evaluation, cost and scheduling, cycle time estimates, and value engineering. He has also conducted tunnel condition surveys. Additionally, Mr. Henn has served on 34 Dispute Review Boards and as an Arbitrator on construction cases. Mr. Henn is past President of the American Underground Construction Association. He is the recipient of the ASCE's 2002 Roebling Award in Construction Engineering, the Underground Construction Association of SME's 2008 Outstanding Individual Award and is a Distinguished Member of SME – Class of 2013. Mr. Henn is also an Adjunct Professor at the Colorado School of Mines where he teaches classes in tunneling, underground construction, and grouting. He has authored three ASCE text books on grouting for underground construction.

- Dispute Review Boards. Mr. Henn has served on 34 DRBs; he has been chairman on 17 of the boards. The total construction value for the 34 projects is over \$1.7 billion.
- Expert Witness. Mr. Henn served as an expert witness on 17 cases.
- Arbitration. Mr. Henn served as an arbitrator for two construction cases.
- Construction Appraiser. Mr. Henn served as an appraiser on a microtunneling case.
- Value Engineering Teams. Mr. Henn has been a member of 19 value engineering teams.
- Risk Assessment Teams. Mr. Henn has been a member of a risk assessment team for a large transit tunnel project.



### Education

Ph.D., Mining and Earth Systems Engineering, Colorado School of Mines, 2005  
Certificate of Advanced Studies in Alternative Dispute Resolution University of Denver, 1998  
Professional Degree in Engineering (Civil), University of Wisconsin, 1996  
M.S., State University of New York, Engineering/Construction Management, 1988  
B.A., City University of New York, Geology, 1974  
A.A.S., City University of New York, Construction Technology, 1971

### Professional Registration

Professional Geologist: Colorado, Indiana and Minnesota

### Professional Societies

American Society of Civil Engineers  
Society of Mining Engineers  
International Society of Explosive Engineers  
Dispute Resolution Board Foundation  
The Beavers  
The Moles