



***Mark E. Watson, PE, CVS, Vice President***

***Qualifications***

Mark Watson is a registered Professional Engineer and Certified Value Specialist (CVS). He has an in-depth knowledge of the Value Methodology (VM) and the application of it to many types of construction and design related projects. Mark's experience includes value studies on a wide array of projects that cover the gambit of the design and construction industry. He has conducted value analysis, value engineering, and value planning studies on roads, bridges, water and wastewater facilities, transit facilities, airport facilities, and drainage facilities, as well as buildings for education, health care, prisons, vehicle maintenance facilities, barracks, and U.S. embassy and consulate operations. The sizes of these projects and programs on which Mark has conducted value studies have ranged from a few hundred thousand dollars in capital costs to as high as \$6 billion. Mark has led VE studies on projects in all stages of design from the schematic/planning stage to 100% complete.

Mark has an in-depth knowledge of and experience facilitating a number of decision-making processes. Mark's particular expertise is in marrying the Value Methodology with these Decision-Making processes. The VM study is used to generate alternatives using function analysis and brainstorming techniques. Then, the decision making processes are used to determine which alternatives provide the greatest value enhancement to the project taking into account qualitative information such as aesthetic quality, user impacts and preferences, socio-political impacts, etc.

***Education***

- ♦ B.S. – Geological Engineering, 1999 – University of Missouri - Rolla

***Registration***

- ♦ Professional Engineer – No. 2005001059, Missouri
- ♦ Certified Value Specialist — No. 20020523, SAVE International

***Employment Record***

- ♦ Value Management Strategies, Inc., (2007-Present) Vice President
- ♦ Strategic Value Solutions, (2006-2007), Vice President/Senior Value Specialist
- ♦ URS Corporation (1998-2006), Value Engineering Program Manager

***Professional Affiliations***

- ♦ SAVE International
- ♦ Association of Engineering Geologists

## ***Areas of Expertise***

- ◆ Value Engineering Team Leader
- ◆ Choosing by Advantages Team Leader (CBA)
- ◆ Value Management/Value Planning/ Value Analysis Facilitation
- ◆ Function Analysis Concept Designs/Design Charrettes
- ◆ Constructability Reviews
- ◆ Total Quality Management
- ◆ Partnering
- ◆ Geotechnical Engineering

## ***Representative Experience***

Mark has served as a Value Engineering Team Leader on hundreds of value studies in the last ten years for organizations such as:

- ◆ California Department of Transportation
- ◆ Kentucky Transportation Cabinet
- ◆ Utah Department of Transportation
- ◆ Kansas Department of Transportation
- ◆ Louisiana Department of Transportation
- ◆ Nebraska Department of Roads
- ◆ Transbay Joint Powers Authority
- ◆ Central Utah Water Conservancy District
- ◆ City of New York
- ◆ U.S. Army, Corps of Engineers – Louisville, New Orleans, Mobile, Fort Worth, New England, Baltimore, Omaha, Districts
- ◆ National Guard Bureau
- ◆ National Park Service
- ◆ U.S. Department of State
- ◆ U.S. General Services Administration
- ◆ Centers for Disease Control and Prevention
- ◆ Old Dominion University
- ◆ College of William and Mary
- ◆ Christopher Newport University
- ◆ George Mason University
- ◆ Virginia State University

## VA/VE Project Studies

### HIGHWAY AND TRANSIT PROJECTS

#### *California Department of Transportation*

- ♦ I-80/I-680/State Route 12 Interchange, Fairfield, CA
- ♦ Milford Shoulder Widening and Rumble Strips, Lassen County, CA
- ♦ Rio Bonito Rehabilitation Project, Butte County, CA
- ♦ I-80 North Connector Project, Solano County, CA
- ♦ Route 89 Cayton Creek Rehabilitation Project, Shasta County, CA
- ♦ Route 20 O.C. Dorsey Drive Improvement Project, Nevada County, CA
- ♦ Hunter Hill Safety Roadside Rest Area Rehab, Solano County, CA
- ♦ Route 101 Rehab, Eureka to Arcata, CA
- ♦ Route 116 Safety Improvements Sonoma County, CA
- ♦ I-680 Pavement Rehab, San Ramon, Danville, Alamo & Walnut Creek, CA
- ♦ Thomes Creek Bridge Replacement, Tehama County, CA
- ♦ Doyle Drive Improvement Project, San Francisco, CA
- ♦ Cabrillo Bridge Seismic Upgrade and Rehabilitation, San Diego, CA
- ♦ State Route 62 Realignment, Yucca Valley, CA
- ♦ I-680 Roadway Rehabilitation, Alameda, CA
- ♦ 4 Lane Expressway, San Bernardino, CA
- ♦ Mohawk Street Extension, Bakersfield, CA
- ♦ West Side Parkway, Bakersfield, CA
- ♦ Mixed Flow Lane & Separation to Scott Rd, Riverside, CA
- ♦ Realign I-15/I-215 Connectors, Devore, CA
- ♦ I-5 Interchange, Los Angeles, CA

#### *Kentucky Transportation Cabinet*

- ♦ I-65 Lane Widening between TN state Line and Natcher Pkwy, Warren and Simpson Counties, KY
- ♦ I-66 and US 27 Interchange, Somerset, KY
- ♦ Gene Snyder Freeway (I-265) Interchanges, Jefferson County, KY
- ♦ Reconstruction of US-68/KY-80 between Aurora & Cadiz, Kentucky
- ♦ Franklin County I-64 Relocation/Widening Between US-127 and US-60 at Frankfort, Kentucky

#### *Minnesota Department of Transportation*

- ♦ Unweave the Weave – I-35E & I-694 Interchange Reconstruction, Minneapolis, MN

#### *Utah Department of Transportation*

- ♦ 3500 South Corridor Project, Salt Lake City, UT

#### *Kansas Department of Transportation*

- ♦ Reconstruction & Repair of Interstate 70 at Salina, KS
- ♦ I-635 Major Modification at Kansas City, Kansas
- ♦ Reconstruction of I-35, Franklin County, KS

#### *Louisiana Department of Transportation*

- ♦ Claiborne Avenue Bridge Replacement, New Orleans, LA

#### *Nebraska Department of Roads*

- ♦ I-80 Rehab from Roscoe to Paxton, NE



### ***Other Transit Projects***

- ◆ Moynihan Station Development Project, New York City, NY
- ◆ New Transbay Terminal Building, San Francisco, CA
- ◆ New Administration, Operation, and Maintenance Facility, Pinellas Suncoast Transit Authority, Pinellas County, FL
- ◆ US 36 Corridor and BSNF Lightrail Project, Denver, CO

## **CIVIL WORKS PROJECTS**

### ***U.S. Army Corps of Engineers***

- ◆ Grand Isle Shoreline Protection Grand Isle, LA
- ◆ Seepage Control Modifications to Waterbury Dam, Waterbury, NY
- ◆ Walter F. George Dam Structural Failure Prevention
- ◆ Utility Relocations for Inner Harbor Navigation Canal, New Orleans, LA
- ◆ West Shore Lake Pontchartrain Hurricane Protection, New Orleans, LA
- ◆ Beach Erosion Prevention, East Rockaway Inlet to Rockaway Inlet and Jamaica Bay, New York

## **WATER/WASTEWATER PROJECTS**

### ***U.S. Army Corps of Engineers***

- ◆ Canal Improvements for Woodmere & Sunnymead, Pipeline, and Swift & Canal "A" Projects, New Orleans, LA
- ◆ Comite River Diversion Project, New Orleans, LA
- ◆ Empire Lock & Flood Gates, New Orleans, LA

### ***Central Utah Water Conservancy District***

- ◆ District Water Development (DWD) Project in Northern Utah County/South Salt Lake County
- ◆ Spanish Forks Pipeline, Spanish Forks, Utah

### ***Other Water Related Projects***

- ◆ Wastewater Treatment Plant Capital Improvements, Lake Charles, LA
- ◆ Sanitary Sewer Overflow Corrective Action Plan, Baton Rouge, LA

## **PUBLIC/GOVERNMENT FACILITIES**

### ***U.S. Dept. of State***

- ◆ U.S. Embassy Compound & Facilities, Bamako, Republic of Mali
- ◆ New Office Building Chancery (OBC), U.S. Embassy Berlin, Germany
- ◆ U.S. Consulate General Annex, Arnona, Jerusalem
- ◆ U.S. Embassy Compound & Facilities, Yaounde, Cameroon
- ◆ U.S. Embassy Compound & Facilities, Dushanbe, Tajikistan
- ◆ U.S. Embassy Compound & Facilities, Bridgetown, Barbados
- ◆ Staff Dependent Accommodations, Chengdu, China
- ◆ New Consular Office Building, Seoul, Korea
- ◆ Consular Office Building Rehab, Lagos, Nigeria
- ◆ U.S. Embassy Compound & Facilities, Santo Domingo, Dominican Republic
- ◆ Managua Chief of Mission Residence
- ◆ Tbilisi Georgia

### ***Government Services Agency (GSA)***

- ◆ New United States Courthouse, Phoenix, AZ
- ◆ William S. Moorhead Federal Building, Pittsburg, PA



***Center for Disease Control and Prevention (CDC)***

***National Park Service***

***Other Public Facilities Projects***

**EDUCATIONAL FACILITIES**

***College of William and Mary***

***Christopher Newport University***

***George Mason University***

***Virginia State University***

***Old Dominion University***

***University of Mary Washington***

***Other Public School Projects***

- ◆ Building 23 Lab Consolidation Project, Roybal Campus, Atlanta, GA
- ◆ Painted Desert Inn Building Improvements and Structural Stabilization, Petrified Forest National Park
- ◆ Yosemite Lodge Redevelopment Project, Yosemite National Park
- ◆ Curry Village Employee Housing and Cabins With Baths, Yosemite National Park
- ◆ Stair & Elevator Locations for Bathhouses, Hot Springs National Park
- ◆ North Rim Visitor Services, Grand Canyon National Park
- ◆ Valley Shuttle Bus Replacement, Yosemite National Park
- ◆ Santa Rosa Island Pier Replacement, Channel Islands National Park
- ◆ Jim Camp Wash Bridge Replacement, Petrified Forest National Park
- ◆ Renovations to the Bossier Parish Courthouse, Shreveport, LA
- ◆ New Dormitory on Barksdale Field
- ◆ Captain John Smith Library and Information Technology Center
- ◆ Research 1 Building, Fairfax, VA
- ◆ New Engineering and Technology Building
- ◆ New Recreation Center & Exercise Science, Sport, Physical Education and Recreation (ESPERS) Facility
- ◆ Additions & Renovations to the Batten Arts and Letters Building
- ◆ Lee Hall Renovations & Addition, Fredericksburg, VA
- ◆ King George High School, King George County, VA
- ◆ Prototypical Elementary School, Stafford County, VA

## MILITARY FACILITIES

### *U.S. Army*

- ◆ Human Resources Complex, Phase I, Fort Knox, KY
- ◆ IBCT Brigade Headquarters Annex, Fort Knox, KY
- ◆ Ground Systems Power and Energy Lab, Detroit Arsenal, MI
- ◆ Relocate Metal Parts Mission, Rock Island Arsenal, IL
- ◆ Tactical Unmanned Aerial Vehicles Facility, Fort Campbell, KY
- ◆ Army Aviation Support Facility, Buckley Air Force Base, CO
- ◆ Maneuver Area Training Equipment Site, Fort Pickett, VA
- ◆ 1107th Aviation Classification and Repair Facility, Springfield, MO
- ◆ Military Leadership Academy, Camp Rowland, CT
- ◆ Combined Support Maintenance Shop, Fort Lewis Logistics Site, Tacoma, WA
- ◆ Design and Construction of Von Braun Office Building Complex, Phase I, Redstone Arsenal, AL
- ◆ Dining Facility at Redstone Arsenal, Alabama
- ◆ Barracks Mid-Program Review Value Training Facility Upgrade, Ft Richardson, AK
- ◆ Management Study
- ◆ Railhead Ops Facility Phase, Ft Wainwright, AK
- ◆ Aviation Task Force Complex, Ft Wainwright, AK
- ◆ 3<sup>rd</sup> Air Support Ops Facility, Ft Wainwright, AK
- ◆ Child Development Center, Ft Richardson, AK

### *U.S. Air Force*

- ◆ ANG/AFR Squadron Operations Facility, Tinker Air Force Base