

BEN F. THOMPSON, CVS, CPE, CSI EXECUTIVE VICE PRESIDENT

Education	Registrations & Affiliations
Bachelor of Science in Technology, University of Houston Master of Science Civil Engineering, University of Madison	<ul style="list-style-type: none"> • Certified Value Specialist (CVS), No. 88302 • Certified Professional Estimator (CPE), Electrical, No. 259 • Society of American Value Engineers (SAVE) • American Association of Cost Engineers • Society of American Professional Estimators (ASPE) • Society of American Military Engineers (SAME) • Construction Specifications Institute (CSI)

Ben Thompson has more than 50 years of experience in the design and construction industry providing project management, construction management, facilities studies, value engineering, feasibility studies, economic analysis, project controls, and life-cycle costing. He has provided project management services on numerous airports, light rail, building, technology, industrial, laboratory, and military projects. He has more than 10 years of field experience with heavy construction and mechanical contractors. Ben is the author and copyright-holder for the Total Integrated Project Software Systems (TIPSS) and is the co-author and managing partner of ACCESS (Automated Construction Cost Estimating Software Systems). Ben is also a decorated combat Vietnam Veteran who served in the 173rd Airborne (1970-1971). After leaving active duty, he held commissions in both the US Army and the Texas Army National Guard and is a lifetime member of the Texas National Guard Association.

RELEVANT PROJECT EXPERIENCE

EDUCATION

Oklahoma State University Alumni Center

Sunland provided cost estimating services for the new 52,277 square foot Oklahoma State University Alumni Center to be located on campus. The center will house a number of meeting and conference rooms, lounges and refreshment areas, and a large banquet hall for special events. The project was developed under the vision to create 'a home away from home' for all alumni while complementing the

existing facilities at OSU. Sunland provided cost estimating, budget and scope validation at 30%, 65% and final design.

Engineering Science and Materials Testing Laboratory, Georgia Institute of Technology, Atlanta, GA

As Project Controls Coordinator, managed both the cost and schedules design and construction. This project consisted of the design and construction of a new laboratory for the engineering departments at Georgia Tech University. Established and monitored the project budget. (\$15M)

Performing Arts Center & Complex, University of Texas Pan American, Edinburg, Texas

As a member of the design team, Sunland Group was engaged to work with the OFPC in establishing the budget for the demolition of the existing Performing Arts Building and the construction of the new Performing Arts Complex which includes the remodel of three adjacent buildings. Sunland provided independent cost estimates and contract negotiations with the selected CM@R firm of Spaw Glass (\$29M)

University of Texas – Austin, Data Center, Austin, Texas

Ben served as Sunland's Project Principal, overseeing the cost estimates for the renovation of an existing 28,000-square-foot building to accommodate a new \$23 million data center for a major institution of higher learning. The project scope includes civil and architectural design, and mechanical, plumbing, and electrical engineering.

Performing Arts Center and Parking Structure, Texas State University, San Marcos, Texas

Sunland Group was engaged directly by the University to review the contractors construction schedule and to analyze their project approach. The major concern of the university was that the project be completed on time. After the review, the contractor was instructed to provide a Recovery Schedule due to his projections exceeding the contracted end date (\$32M)

Houston Community College Eastside Campus Expansion, Houston, Texas

This project was for the new Angela V. Morales Building and expansion of a parking lot on the HCC Eastside Campus. The three-story facility included faculty offices, a student activity center, distance learning facilities, a lecture hall for 75 students, classrooms for 625 students, various configurations of computer labs and support spaces to serve a total of 350 PC stations, and two parking lots.

Site work included new and reconfigured surface drives and two new parking lots totaling 249 parking spaces. Sunland provided civil engineering and surveying services including topographic surveys, site grading, drainage, and site utilities for both the proposed building and parking lots.

Attucks, Fondren, Deady and Henry Middle Schools, Houston Independent School District, Houston, Texas

This project included the addition of water and sanitary lines for service to temporary classroom buildings. Sunland engineered the storm drainage and grading along with sidewalk and pavement improvements to improve site drainage as part of the HISD Rebuild 2000 Program and provided cost estimating and scheduling for each of the projects. Specific improvements included the design of a brick security wall for an exterior courtyard within the flood plain at the Deady School site, and the complete redesign from asphalt to a Portland cement concrete parking lot within the constraints of the existing site elevations at the Fondren Middle School site.

Longfellow Elementary Improvements, Houston Independent School District, Houston, Texas

Sunland provided project management support in the way of cost estimating, scheduling, and contract administration. Sunland Group also provided civil engineering services for the renovation and expansion of Longfellow Elementary. The renovation corrected deficiencies identified in the HISD 2002 Facility Assessment Study, and the expansion involved replacing the existing functions located in temporary buildings.

University of Houston, Jack J. Valenti School of Communication, Houston, Texas

Sunland is a subconsultant to Jacobs Engineering Group to provide civil engineering and cost estimating services for the new Lance T. Funston Communication Center. Ben is responsible for providing cost estimating services on the project.

University of Texas at El Paso, Texas

Working as a subcontractor to HOK Architects, Ben served as Sunland's Project Principal, overseeing the cost estimates for engineering and core sciences laboratories on the UTEP campus.

University of North Texas, Denton, Texas

Ben served as Sunland's Project Principal, overseeing the cost estimates for the construction of engineering and materials laboratories at the University of North Texas Discovery Research Park.

J. Erik Jonsson Central Library, Dallas, Texas

Ben served as Sunland's Project Principal, overseeing the cost estimates as a subcontractor to proforma architecture on this project that involves the renovation and update of the interior of the 646,733 square foot library, one of the largest in the world and the main public library serving Dallas.

White Rock Branch Library, Dallas, Texas – Ben served as Sunland's Project Principal, overseeing the cost estimates and scheduling services as a subcontractor to HOK for the construction of this new library in Dallas.

Computer Sciences Corporation, FSG Headquarters, Austin, TX

As Project Executive, Ben worked with CSC staff to establish the construction budget for this new facility. The project included the review and feasibility studies of five sites. Once the site had been selected, a budget was prepared and a master schedule done to present to the CSC Board of Directors. Ben assisted in the selection and management of the design firm as a representative of CSC to assure the project would be designed within budget. The project consists of 700,000 SF of office space in three buildings, two parking structures of 250,000 SF, and underground parking garage of 300,000 SF and 70,000 SF of retail space. (\$100M)

AIRPORTS

Austin Bergstrom International Airport (ABIA) Rotation List (2009-2012), Austin, Texas

Sunland is providing professional architectural and engineering services to the City of Austin Aviation Department. Current task assignments include providing architectural investigation, design recommendations, and programmatic support on the ABIA Terminal Improvements – Phase 5 project, the IS Building 7355 Emergency Power Improvements project, Ground Transportation Staging Area (GTSA) Relocation; and the Cell Phone "Stage and Go" Parking Lot projects. Ben serves as the Chief Cost Estimator on this rotation list contract.

ABIA GTSA Relocation and Renovation, Austin, Texas

Sunland is providing conceptual building and site planning, architectural/MEP/civil design, permitting and procurement services for relocation of the existing Ground Transportation Staging Area (GTSA) to an existing rental car at the City's airport. Sunland architects completed the programming and design for interior and exterior renovations of an existing building, and Sunland engineers designed site, paving, grading, utility and stormwater quality improvements to the existing site to accommodate bus, limousine, taxi and shuttle

bus circulation and parking. Sunland also prepared final construction plans, specifications and estimates for review by the City for permitting and the project is currently advertised for bid. Ben has provided cost estimating services for this Task Assignment.

ABIA Remain Over Night (RON) Apron Expansion, Austin, Texas

The RON Apron Expansion project involves the construction of an expansion of Apron Areas for parking carrier airplanes during the night. Construction of the apron expansion required the relocation of the solid waste and recycling facility for the airport. Sunland provided the architectural design services for this covered Area to have it blend with other airport service facilities. Sunland also served as Construction Administrator for this project, responsible for interfacing with the Client, City of Austin Project Manager, City of Austin Construction Inspector and the contractor. Other duties include construction observation, answering RFI's, reviewing submittals and change orders and reviewing contractor pay applications. Ben provided cost estimating services for the project.

San Antonio International Airport On-Call Construction Inspection Services, San Antonio, Texas

Sunland is one of the On-Call Resident Inspection firms for the San Antonio International Airport. The role of the On-Call Inspector is to supplement the City's staff to provide inspections on a variety of projects at the airport. Ben provided QA/QC services for the task assignment involving the 400Hz Ground Power System and the Pre-Condition Air for seven of the eight new gates in Terminal B.

San Antonio International Airport (SAIA) Master Plan, San Antonio, Texas

As part of the team preparing the new Master Plan for the SAIA, Ben was responsible for the site investigations of all the facilities, establishing the budgets for the updated CIP as it is being developed, supplying the CAD support required for the ALP updates and the local coordination of activities with the airport representatives.

Terminal A, B, C and E Renovations Schematic Design (10%), Dallas / Fort Worth International Airport (DFW), Dallas, Texas

Sunland is an integral part of the URS Management Team who is providing the management of the preliminary engineering and design for the renovations of Terminals A, B, C and E. Sunland designed and implemented the Document Controls System for the program and is managing the data. Sunland is also hosting all the web based job costing system

for the project as well as the FTP site for all the infrastructure design. As part of this project Sunland is working closely with the DFW Records Manager to ensure that the filing systems are compatible. Ben is leading Sunland's team in providing project management support services including: architectural design and design coordination; document control; quality assurance and quality control; and construction administration support.

Denver International Airport, Denver, Colorado

Sunland is a team member with DMJM Aviation (AECOM) providing construction management services on this multi year IDIQ contract which includes the design and construction of both vertical and horizontal projects. Specific Role: Ben's responsibilities include the staffing of Project Managers, Construction Managers, Schedulers, and Inspectors for multiple task orders. Ben is the Project Executive on this project and is also part of the Construction Claims Defense Team.

ABIA New Airport Project Team, Austin, Texas

During the conversion of Bergstrom Air Force Base to commercial use, Ben was hired by the Airport Authority to assist in negotiations of the A/E fees for changes in the design. It was his responsibility to come up with and independent estimate of what changes were required because of design errors or emissions and what changes were required because of changes in the Scope of Work for the particular designer. Ben's estimates were based on drawings generated, types of drawings (plans, detail sheets, elevations, etc), engineering hours, EIT hours, CAD hours, etc. Since that time, Ben has been involved with numerous projects to include the new Remain Overnight (RON) apron.

Dallas/Fort Worth (DFW) International Airport, Dallas, Texas

Sunland is part of the URS Team for the Programming and Schematic Design for Terminal E, Terminal E Parking and Terminal E Satellite. Ben and his staff are responsible for providing the documentation control to URS for this assignment. Sunland Group, Inc. will also support the team with estimating and scheduling on an as needed basis.

Dallas/Fort Worth (DFW) International Airport, Dallas, Texas

As a consultant, Ben worked for the DFW Airport Authority providing construction management services that included cost estimating, scheduling, on-site representation, and contract negotiations. This project consisted of numerous

projects to include the expansion of the existing fuel storage and distribution systems. Two new fuel storage tanks were added along with the associated distribution piping.

**Dallas/Fort Worth Airport Authority,
Dallas, Texas**

As project manager/chief estimator, Ben led a team of estimators in the preparation of more than 200 estimates for the planning and engineering department. These estimates ranged from planning estimates to detailed construction estimates. The projects included every type of facility common to airports. A small list of projects is renovations to terminals 2E and 3E; renovations to terminal 4E, including the addition of a satellite; airfield lighting for runways, taxiways, and aprons; and a new fire station.

**Dallas Love Field – People Mover
Dallas, Texas**

Ben Thompson is working with Ellerbe Becket on the design team for a new people mover that will connect the Dallas Area Rapid Transit (DART) LRT system to the Love Terminal. The current design is for an open cut type of construction which will cross two runways.

**Terminal Expansion and Concourse C Addition
Newark Liberty International Airport
Newark, New Jersey**

Ben led a team of professionals in the project management of the extension of the Terminal and the addition of Concourse C at the Newark Airport. This involved the management of the design effort, coordination with Continental Airline (the major carrier who would occupy the new concourse), the Port Authority, and the FAA. All the budget estimates were generated by Ben and his team of estimators along with the design and construction schedules.

**New Terminal and Concourse
Mid Continent Airport
Wichita, Kansas**

Ben Thompson led a team of architects and engineers through the value engineering process as a subcontractor to AECOM Transportation during the design process for this new terminal and concourse. Over a million dollars of potential savings were identified and implemented into the final design.

**New United Airlines Cargo Hangar Facility
LAX International Airport
Los Angeles, California**

As part of the Project Management team selected by United Airlines, Ben was responsible for the initial budgeting and scheduling for the construction of this new hangar. This 100,000 sf facility included administration space as well as some storage space.

TRANSIT

**Coach America – Kerrville Bus Facility, San Antonio,
Texas**

Sunland is providing architectural and civil conceptual planning and design, permitting, and construction administration of a new bus storage facility. The project includes coordination with the City of San Antonio and the Texas Department of Transportation (TxDOT). Phase I of this project is currently in construction and Phase II is in design. Ben is providing cost estimating for this project, as well as assisting the client and contractors with environmental / remediation compliance issues.

**METRO University Line Corridor Value Engineering
Study, Houston, Texas**

Ben Thompson, for Booz Allen Hamilton and METRO, led a 10 day Value Engineering (VE) Team Study of METRO's University Corridor to be constructed in Houston, Texas. The University Corridor project involves an effort to establish a new Corridor for expansion of the METRO rail system to improve mobility, accessibility, and system linkages, as well as to increase opportunities for economic development in the community. The VE Team reviewed the project's environmental documents, drawings, reports, cost models and cost estimates. Regional planning documents were also reviewed and discussed. Proposed design solutions were then discussed in detail, including alternatives considered and those recommended. The VE Team analyzed the alternatives and generated 104 creative ideas with regards to Acceptability to METRO, Potential Cost Savings, Politics, Operations, and the FEIS Impact. Approximately 27 of the ideas were developed into proposals.

METRO Intermodal Terminal, Houston, Texas

Sunland provided Civil Engineering, Architectural, Scheduling and Estimating support on the preliminary design of this new Intermodal Transit Facility to be constructed on the north side of the downtown. Ben Thompson provided the lead for all the cost estimating and scheduling done by Sunland Group for this project. This contract initially started out as a part of the URS contract and was then transferred to Washington Group. Sunland contracted directly with the architectural firm of EEK.

**Dallas Area Rapid Transit (DART) Project Controls
Consultant, Dallas, Texas**

As Project Executive, Ben provided scheduling, estimating, and special project services for DART, including over 15 VE studies, feasibility studies performed for the twin bore tunnels on Line Section NC1, and Risk Analysis and Risk Assessments. Ben also assisted in the development of the Project Management Plan required for the Full Funding Grant Agreement from the Federal Transportation Administration

METRO LRT Starter Line, Downtown to Astrodome Houston, Texas

Ben served as project manager for Sunland's contract with STV, Inc. Ben controlled and maintained the capital cost estimates and change order negotiations for the Light Rail Transit. These included estimates of the total cost of preliminary engineering, final design, property acquisition, construction, project management, inspection, operation startup, procurement of maintenance equipment, allocated overhead and operating and maintenance cost estimates. Sunland also updated and maintained a project cost control system. Additional work included employing a work breakdown structure compatible with METRO's cost collection and accounting system along with gathering, summarizing, and reporting project cost by section in the projects Monthly Cost Report

METRO Light Rail Test Track, Houston, Texas

As Project Principal for Sunland's contract with Carter & Burgess (Jacobs) for the Light Rail Test Track, Ben was responsible for staffing and budgeting on Sunland's tasks. Sunland produced a preliminary traffic control study, schedule and cost estimates for vehicular, construction, and pedestrian traffic control and building access. Sunland also controlled and maintained the capital cost estimates, including estimates of the total cost of preliminary engineering, final design, property acquisition, construction, project management, inspection, operation startup, allocated overhead, operating, and maintenance. Sunland employed a work breakdown structure compatible with METRO's existing cost collection and accounting system and gathered, summarized and reported project cost by section in the projects Monthly Cost Report.

METRO Jefferson & Congress Study, Houston, Texas

Sunland was contracted by METRO and DMJM+HARRIS to provide Architectural/Engineering design services for Jefferson Street (Brazos to Travis) and Congress Street (Jackson to Hamilton). The scope of services included: architectural and landscaping design; realignment and reconstruction of sidewalks and streets; drainage design; site location for the installation of transit shelters and transit amenities; resolution of conflicts with utilities; foundation

designs; pavement, curb, sidewalk, and driveway design; traffic control plans; and signalization. Sunland also provided standards for streetlight poles, traffic signal poles, and transit amenities. Detailed design services included the preparation of complete civil, structural, and traffic control plans, construction phasing, electrical drawings, architectural and landscaping plans (including landscape irrigation and drainage design), traffic signal plans, and technical specifications. All designs were ADA compliant.

METRO STV Contract, Houston, Texas

Sunland controlled and maintained the capital cost estimates and change order negotiations for the Light Rail Transit. These included estimates of the total cost of preliminary engineering, final design, property acquisition, construction, project management, inspection, operation startup, procurement of maintenance equipment, allocated overhead and operating and maintenance cost estimates. Also updated and maintained a project cost control system. Additional work included employing a work breakdown structure compatible with Metro's existing cost collection and accounting system along with gathering, summarizing and reporting project cost by section in the projects Monthly Cost Report. If any variances existed, we provided a complete explanation.

Houston METRO Fallbrook Bus Maintenance Facility, Houston, Texas

As cost estimator, Ben provided project controls and scheduling for a new bus maintenance facility for liquid natural gas (LNG) and compressed natural gas (CNG) fueling. This project is the first new LNG and CNG facility to be constructed by METRO (\$32M).

Project Controls Consultant Services, Phase II Build-Out Dallas Area Rapid Transit, Dallas, Texas

Sunland was contracted by Dallas Area Rapid Transit to act as Project Controls Consultant (PCC) for their Phase II Light-Rail Construction program. Phase II included over 45 miles of tracks on four lines throughout the Dallas area. Sunland served as the PCC and acted as an extension of DART's staff providing six primary tasks (project administration, schedule control, budget and cost control, estimating, project support, and environmental management). DART's current light rail program is expected to be completed with the opening of Phase II facilities in 2010. Ben served as project principal for this project and was responsible for overall staffing and budgeting for Sunland's involvement in the project.

Houston METRO, Eastex High Occupancy Vehicle (HOV) Terminus, Kingwood, Texas.

Under contract to METRO and in cooperation with S&B Engineers (project designers), Ben Thompson conducted a 40-hour value engineering study of the HOV Terminus located in Kingwood, Texas. Ben's proposed savings of \$2.74 million on \$4.78 million in projected construction costs. A few of the recommendations included redesign of the bridge span and its use of trapezoidal beams, to widen and incorporate existing bridges, and to change several building materials.

South Oak Cliff Bus Operating Facility, Dallas Area Rapid Transit, Dallas, Texas

Ben was contracted by the Dallas Area Rapid Transit Authority to provide a 24-hour value engineering study and propose design alternatives emphasizing value and utility. The facility was to be located on 24 acres of land that had previously been used as an old gravel pit, then filled with random fill at various degrees of depth. The facility would initially accommodate 150 buses with capability for expansion to 180 buses, a covered bus parking area accommodating 100 buses and an uncovered bus parking area for the remainder of the fleet. The program elements included a 12,600-square-foot operations building, a 46,000-square-foot maintenance building, 64,000 square feet of covered bus parking, a 10,000-square-foot bus washing facility, an 8,000-square-foot detailing and cleaning area, and an 8,000-square-foot fueling facility with fuel storage and the associated site and parking improvements. The VE team proposed \$431,852 in civil proposals, \$496,455 in architectural proposals, and \$190,970 in structural proposals. Total proposed savings were \$1.12 million on an estimated \$11.73 million construction cost.

MILITARY / FEDERAL FACILITIES

USACE Fort Sam Houston BRAC IDIQ, Nationwide

Sunland offers extensive experience leading value engineering studies for public and private sector clients throughout the country, including for Parsons and the USACE. Specific Role: Ben has led teams of architects and engineers for more than 35 years, serving as Chief Value Engineer on VE studies throughout Texas and the Nation, including for Fort Sam Houston BRAC, Fort Lewis, Davis Monthon Air Force Base, Cannon Air Force Base, Buckley Air Force Base, Holloman Air Force Base, the Cities of Houston and Austin, Dallas Area Rapid Transit, Concho Valley Transit District, and Brazos Valley Transit District.

BRAC –Long Barracks (Buildings 600s), Fort Sam Houston, San Antonio, Texas

Ben led a three-day value engineering study for the renovations and remodeling of the Building 600s Long

Barracks project as part of the Base Realignment and Closure (BRAC) program. The project objective included the design and construction for the repair and renovation of Buildings 603, 604, 605, 606, 606B, 607, 607B, 608, 609, 610, and 613 (the Long Barracks) at Fort Sam Houston in San Antonio, Texas. The barracks will be utilized for administration space. The potential savings adopted and implemented was in excess of \$775,000.

Building 350 Conversions JRTC and Fort Polk Headquarters Building, Fort Polk, Louisiana

Ben led a team of professional architect and engineers through the value engineering process on the conversion of a 81,348-square-foot, unoccupied BOQ facility into the headquarters building for Fort Polk Garrison and the Joint Readiness Training Center. This project was required to provide a modern JRTC and Fort Polk headquarters to replace temporary World War II-vintage buildings. The team proposed seven alternatives with a total savings of \$1 million.

Air Reserve Personnel Center (ARPC), Buckley AFB, Denver, Colorado

Ben served as the Value Engineering Team Leader during the design phase of this project which included all training, storage, security and administrative requirements of the Air Reserve Personnel Center – based upon the information gathered during the design charrette and subsequent review meetings. The facility is a single story, multi-purpose building, of approximately 78,800 square feet.

IMCOM-Headquarters Building, Fort Sam Houston, Texas

Ben led a 3-day Value Engineering study for the Corps of Engineers Southwestern Division. The project consists of the construction of a new administrative facility to house the IMCOM Command Group and other G-Staff Divisions at Fort Sam Houston, Texas. The building will house approximately 849 personnel and will include an Emergency Operations Center (EOC). The project is limited to 168,000 square feet.

IMCOM-MWR Academy, Fort Sam Houston, Texas

Ben Thompson led a team of professional architect and engineers through the Value Engineering process for the new Morale Welfare and Recreation Training Academy. The project is new construction of 21,991 square feet, single story, multi-purpose training and performance facility at Fort Sam Houston, Texas. Over \$1 million worth of savings were implemented from the resulting VE Study. Designer: Parsons; for COE Southwest Division

Modified Record Fire Range, Fort Lewis, Washington

As part of the Parsons team, Ben led a 40 hour Value Engineering study of the 30 acre fire range and an assembly area that consists of nine buildings (range operation control tower, range instructional building, bleacher enclosure, covered mess, ammunition breakdown building, maintenance building and two latrines).

Live Fire Exercise Shoot House, Fort Lewis, Washington

Ben led a 40 hour Value Engineering study of the new 4,650 square foot shoot house, after action review, range operation and storage buildings located at Fort Lewis, Washington. The study was conducted utilizing the approved Corps of Engineers methodology and resulted in more than \$50,000 in savings.

Fixed Wing Aircraft Park, Phase II, Fort Hood, Texas

As the senior cost estimator, Ben supervised the preparation of M-CACES cost estimates at 65%, 95%, and final design phases for the Fixed Wing Aircraft Park, Phase II, at Fort Hood. The project included upgrade and expansion of the existing deployment apron; surface upgrades of deployment aprons and taxiways; an access drive to the hot-load ammunition pad; an expanded and renovated passenger terminal to include a Departure Airfield Control Group operations facility and Alert Holding Area; a new Airfield Base Operations building; a pallet storage warehouse; a pallet processing equipment storage shed; and the addition of refueling points. Additional work included supporting facilities to include provisions for utilities, electrical service, paving, storm drainage, fencing, access roads, information systems, site improvements, and repair of drainage ditches on the apron north of the runway.

INS / U.S. Border Patrol Check Points, Laredo / Del Rio Sectors, Texas

Ben led a 40-hour value engineering study to review designs for the Immigration and Naturalization Service and U.S. Border Patrol check point stations along the Texas-Mexico border in the Laredo and Del Rio sectors. The design included 11 new facilities: two large, three medium, and six small sites. The VE team outlined 17 proposed changes totaling \$25.3 million in savings, of which 10 were accepted for a total savings of \$8.77 million.

Nuclear Weapons Integration Facility, Kirtland AFB, New Mexico

Ben provided a three-day value engineering study for the Albuquerque District of the U.S. Army Corps of Engineers to examine the feasibility and cost options, as proposed by the

Air Force, to replace outdated facilities unable to meet current needs. The VE team was asked to propose alternatives to current designs, emphasizing utility and cost value. The team identified 104 possible alternatives and presented 17 for approval.

NASA – Johnson Space Center IDIQ, Houston Texas

Ben served as the Principal In Charge for this multi-year contract with the Johnson Space Center. Responsibilities included the negotiations of each task order, assigning staffing support to the assigned Project Manager and to implement the assigned projects into Sunland's In-House Design and Construction Schedules.

General Instructional Building, Camp Bullis, Texas

Ben provided an M-CACES construction cost estimate at the draft RFP submittal and the final RFP submittal stages for the U.S. Army Corps of Engineers design/build solicitation package. The building was a 10,000 SF classroom facility with the ability to partition classrooms into multiple sizes and configurations. Site layout for the building as well as all support utilities were accounted for.

Design Services for Foundation and Structural Repairs, Fort Hood, Texas

Ben prepared an M-CACES Cost Estimate at the 95% Design Submittal for proposed renovations of buildings 9426, 9427, 10013, 10040, and 7027 at Fort Hood, Texas. The scope of the estimate covered all foundation, structural, roofing, electrical, and mechanical work as designed by Agurrie & Associates. The Base estimate is for Slab On Grade Foundations (Bldgs. 9426, 9427, 10013 & 10040) and built-up roof (Bldg. 7027). An alternate estimate was provided for structural slab foundations (Bldgs. 9426, 9427, 10013, & 10040) and a standing seam roof (Bldg. 7027)

Vehicle Maintenance Facility, Fort Bliss, Texas

Ben prepared an M-CACES Cost Estimate for the final design of a Vehicle Maintenance Shop at Fort Bliss, Texas. The base estimate included an 11,500 SF tactical equipment shop, an oil storage building, sentry station, a 690 SF deployment storage building, 13,000 SF of hardstand pavement, fuel dispensing facilities, and 21,000 SF of site work.

OTHER

University of Texas, MD Anderson Exterior Cladding, Houston, Texas

Sunland provided architectural design, computer aided drafting, and cost estimating services to replace and/or repair

the existing exterior cladding on the Anderson Center, Anderson East, Anderson West, Gimbel, Bates Freeman, Lutheran, Clark Clinic and Love Clinic buildings within the MD Anderson Cancer Center complex in Houston, Texas. This was the first phase of a multi-year project to enhance these building facades by replacing windows and repairing or replacing all the exterior cladding. Due to the complexity of this project, Sunland interfaced the CAD design and cost estimating software systems to facilitate quantity takeoff and tracking of project costs. Ben served as the Sunland Project Principal, overseeing cost estimating services.

A/E Contract, Renovations to Veterans Affairs Hospital, Big Spring, Texas

As a subconsultant, Sunland provided cost estimating services for this project involving providing multidisciplinary engineering and architectural services for renovations to this existing VA Medical Center in Big Spring, Texas. Ben oversaw the preparation of cost estimates for project milestones and phases.

Seton Medical Center Tower Expansion, Austin, Texas

As a subconsultant, Sunland provided cost estimating and value engineering services for this project involving the MEP design services for the five-story, 124,000 sf expansion to the existing main campus of Seton Medical Center. The expansion was built to help meet the regional demands for care, space and comprehensive maternity services the medical center is experiencing. For the project, Ben oversaw the preparation of cost estimates and provided value engineering support services.

Joint Hurricane Housing Task Force (JHHTF), Houston, Texas

Sunland's participation in this landmark housing relief effort began as emergency housing inspection, but quickly evolved to task management, project management, and finally to Program Management. Specific Role: At the peak of program activity, Ben was instrumental in developing the JHHTF, in conjunction with the City of Houston's Building Services Department staff and the Mayor's Office for Neighborhoods and Housing. Ben had line authority over more than 600 program staff which effectively developed Houston as the world's largest housing authority within 3 months of program initiation. Ben's ability to assess, motivate, organize, and quickly execute solutions fostered the creation of the Disaster Recovery Center, where he served as head of Field Operations, established the Housing Choice Center, and directed Sunland's development of a critical database which has been used by both the City of Houston and FEMA to

track evacuees and determine eligibility of payments to Land Lords participating in the City's Housing Assistance Program.

City of Houston, Capital Improvement Programs, Houston, Texas

Ben was the Project Manager for Sunland who provided project management, construction management, cost estimating, project controls, document controls, scheduling, QA/QC, field inspections, and contract administration services for multi-million dollar Capital Improvement Program (CIP) projects for the City of Houston's Building Services Department (BSD). From 1999 to 2006, Sunland was designated as the Program Manager with the City of Houston, Building Services Department, and provided professional services for the following:

- The Police Department's \$109 million CIP for design and construction contracts to either renovate existing police facilities or construct new ones*;
- The Fire Department's \$140 million CIP for design and construction contracts to either renovate existing fire facilities or construct new ones;
- Space planning and coordinating interior design and/or systems furniture changes involving the client departments that occupy the 400-plus buildings (\$50 million) managed by the Building Services Department;
- The Parks and Recreation Department's \$115 million CIP, which involved upgrades of more than 85 parks and buildings throughout the Houston area.

Depending on workloads and the number of projects planned for a given year, our team varied from 12-19 construction managers, contract administrators, estimators, construction inspectors, and administrative personnel. As Project Executive for the Parks CIP, Ben provided definition of scope, wrote the project management plan, established the budgets, staffed all the positions and set the initial Master Schedule. The project consisted of new parks facilities, renovations to existing facilities, and the incorporation of ADA upgrades for over 50 parks. There are 436 parks in the system and each was a part of the Capital Improvements Projects Budget.

City of Houston, CIPs, Police Department Facilities Renovations and City Of Houston Building Services Department, Houston, Texas

– Sunland was designated as the Program Manager of the Police Department's \$109 million CIP since 2002. This included all design and construction contracts developed through the General Services Department to renovate existing police facilities and construct new ones. Ben was responsible for preparing cost estimates

for the construction contract that replaced the roof on the **Police Headquarters Building and eliminated the leaks that affected the Police Department's Crime Laboratory**, as well as for the project that repaired the building's facade and windows to eliminate any ancillary water intrusion into this facility. Ben also provided cost estimating for the following law enforcement facilities:

- **Renovation of the Westside Command Station;**
- **Construction of a new Southside Command Station;**
- Installation of new roofs on the **Police Academy Buildings B & D, Volker & Central Police Stations, and Property Management Facility;** and
- Design of a new **Vehicle Maintenance Facility**

Sunland also developed a **10-Year Master Plan** that included long-range goals and objectives, data on existing police facilities, needs assessments based on the City's growth projections, validated their existing five-year Capital Improvement Program, and recommended implementation strategies. This plan also included drawings showing the location of all existing police facilities in FY 2005 and the location of proposed police facilities to meet the needs of the public in FY 2010 and FY 2015. Ben was responsible for preparing the cost estimates for each CIP project recommendation was also provided.

Ben also served as the Hiring Manager responsible for providing recruiting and hiring support services to identify highly qualified construction management professionals. Recruited and hired construction professionals to fill over 20 positions which included construction managers (4), field inspectors (2), and project controls staff (1). Other construction related positions filled included designers, facility managers, safety specialists, and commissioning engineers.

Rajasthan Oil and Gas Field Development, Crude Oil Refinery, And Support Services Complex - Rajasthan, India

Ben served as Project Principal, including providing QA/QC services for this project in which Sunland provided site development services for Mustang Engineering for over 100 acres of development property, including hydraulic and hydrologic calculations for the site development and water sampling. Part of this project included providing site development and architectural services for a 250,000 square feet Support Services Complex, which includes mixed-use residential, hotel, recreational, restaurant, training, and

administrative office facilities, including a 500-person dormitory with life support functions, a helipad, roadways and perimeter physical security systems (including fencing and security gates), green belts, berms and access roadways.

IBM Balcones Research & Development Laboratory – Austin, Texas

Ben was the project manager for the project controls during the design and construction phase of the new 100, 000 SF Research & Development Laboratory for IBM in Austin, Texas. Ben was assigned by the Architects of Record, Page Southerland Page to provide cost engineering, critical path scheduling and cost estimating services for the design team during the design phase. The project was a fast track project so construction was started prior to completion of the building drawings. This was a high tech facility which served as the research facility and housed clean rooms, anechoic chambers, electronics laboratories, etc.

IBM Wafer Chip Manufacturing Facility – Austin, Texas

Ben was the project manager for the project controls during the design and construction phase of the new 60, 000 SF Wafer Chip Manufacturing Facility for IBM in Austin, Texas. Ben was assigned by the Architects of Record, HDR to provide cost engineering, critical path scheduling and cost estimating services for the designers of record for during the design and construction phases. The project was a fast track project so construction was started prior to completion of the building drawings. Due to the advanced technology of the process and the owners desire to ensure that this facility be a "State of the Art" project; Ben personally estimated and negotiated over 200 change orders during the construction phase.

Sr. Cost Estimator, Cedar Bayou Navigation Channels, Baytown, Texas

Ben supervised the MCACES Cost Estimates for improvements and dredging of Cedar Bayou Navigation Channels. The lower 6 miles is a federally maintained navigation channel 10' deep and 100' wide at the bottom. The channel, which is used by shallow draft barges and recreational boats, meanders along the urbanized eastern portion of the City of Baytown, Texas, before entering Galveston Bay and the Houston Ship Channel. An array of alternatives with varying channel widths, depths, alignments, and lengths were considered to determine the incremental benefits and costs for each alternative. A plan was chosen that maximized the benefits and costs and included a

dredged material management plan for the initial dredging improvements along with 50-years of maintenance dredging.

Computer Sciences Corporation, FSG Headquarters, Austin, Texas

As Project Executive Ben established the construction budget for the new facility, made up of 700,000 SF of office space in three buildings, two parking structures of 250,000 SF, an underground parking garage of 300,000 SF and 70,000 SF of retail space. He performed review and feasibility studies of the five sites and prepared a budget and master schedule after site selection. He also assisted in the selection and management of the design firm to ensure that the project would be designed within budget.

Harris County Atascocita Detention Center and Infrastructure Improvements, Lindsay Lyons Park Complex, Harris County, Texas

Sunland designed on site utilities, paving, drainage and detention facilities, along with Permanent Storm Water Quality and Interim TPDES Pollution Controls for a 20-acre jail facility for 1,200 inmates, within the 400 acre Lindsay Lyons Park facility. This also included the design of 5,500 LF 10-inch sanitary force main, 2,000 LF water main extension, and coordinated design of a water plant and sanitary lift station to support the new jail facility, as well as the existing Pam Lychner State Jail, Juvenile Detention Boot Camp, Sheriff and Fire Marshall Offices, Fire Training Academy and Precinct Maintenance Camp facilities located within the Park. Ben, as the Sunland Project Principal, provided cost estimates for the project/facilities.

Texas Department of Criminal Justice (TDCJ), Huntsville, Texas

Sunland provided claims support services to TDCJ in support of the Texas Attorney General's Office on a \$55 million project to construct three 1,000-bed prison facilities in Hondo, Lamesa, and Pampa, Texas. Construction means and methods, and the schedule were examined to negotiate the delay claim presented by the contractor. The original claim was for \$8 million and settled for less than \$2.5 million. Ben was responsible for reviewing costs associated with the project/claim.

Mesquite City Jail Value Engineering Study, Mesquite, Texas

Ben led the VE Study, which included providing cost estimating, for the Mesquite City Jail, which resulted in a savings of \$667,000 on the \$4.2 million project.

Engineering Science and Materials Testing Laboratory, Georgia Institute of Technology, Atlanta, Georgia

As Project Controls Coordinator, Ben managed both the cost and schedules design and construction. This project consisted of the design and construction of a new laboratory for the engineering departments at Georgia Tech University. Ben also established and monitored the project budget.

CarrAmerica, New Downtown Facility, Austin, Texas

Ben provided a cost estimate at the advanced design development phase and another cost estimate based on the construction documents. He also assisted in the negotiation of a guaranteed maximum price contract with the contractor.

Southeastern Pennsylvania Transportation Authority (SEPTA), Paoli Site Clean Up, Paoli, Pennsylvania

Ben Thompson led a team as part of the LTK Contract for the site clean up of the rail maintenance facility for the commuter rail line located at Paoli, PN. Ben prepared the cost estimates and budgets for the environmental department and then led the Value Engineering study for the closure and cleanup of the existing facility.

Port Authority Trans Hudson (PATH) Line, New York Transit Authority, New York, New York

As a member of the design team for the design and construction of a new Car Wash Facility for PATH, Ben provided all the cost estimating, scheduling and value engineering for the new facility.

Humana Hospitals, Various Facilities, Louisville, Kentucky

As Project Manager, Ben provided a variety of cost estimating, value engineering, and special project services for Humana. Ben worked on the renovations and additions to the Baytown Hospital, Baytown, Texas; Aurora Hospital, Aurora, Colorado; Sunrise Hospital, Las Vegas, Nevada; Augusta Burn Hospital, Augusta, Georgia; and many others. He was also part of the team that developed the in-house estimating system used during the design and construction phase of the project for project controls on Humana projects. During this time he also oversaw the development of their new Proto-type Psychology Units.

Superconducting Super Collider (SSC), Dallas, Texas

As Project Manager, Ben provided an independent analysis of several construction change orders and negotiated these change orders with the contractor. He provided construction cost estimating and economic analysis for one of the planning and engineering departments, and analyzed several alternatives to foundation systems, structural systems, exterior closure systems, and mechanical and electrical systems. Buildings included the Magnetic Development Laboratory, the Underground GEM Facility, the Underground IR-8 Hall, and their supporting facilities. In a last ditch effort to save the SSC by the Department of Energy, Ben was brought in to assemble a team of Certified Value Specialists and was retained to analyze each of the project elements to reduce cost without sacrificing the basic functions. Only three studies were completed before Congress eliminated project funding.

CAPITAL METRO, Austin, Texas

Sunland provided engineering services for the redesign and modification of the storm water separation and filtration facility at the CMTA maintenance yard. Services included storm water analysis, separation and detention capacity, analysis of wastewater/filtration processes, conceptual planning and budget development, design of detention and separation structures, utility services planning and design, design of vehicle ramps and pavements, equipment recommendations for environmental systems, construction estimating and budget control, construction scheduling, development of construction documents and construction administration services.

ADDITIONAL PROJECT MANAGEMENT SERVICES PROVIDED FOR MAJOR PROJECTS INCLUDE:

- Computer Sciences Corporation Virginia Technology Center, Fairfax, VA (\$28M)
- Shell Oil Company MTBE Plant, Woodriver, IL (\$36M)
- Shell Herbicide Plant, Axis, AL (\$100M)
- Riyadh Refinery No. 2-DCS Upgrades, Riyadh, Saudi Arabia (\$112M)
- Saudi Executive Homes, Dhahran, Saudi Arabia (\$70M)
- Humana Burn Hospital, Birmingham, AL (\$26 million)
- Humana Sunrise Hospital and MOB Renovations, Las Vegas, NV (\$15M)
- Humana Hospital Renovations and New MOB, Aurora, CO (\$22M)
- Aramco Northern Support Cities, Saudi Arabia (\$1.5B)
- Global Gateway, Continental Airlines, Newark, NJ (\$1B)
- Fort Carson Medical Hospital, Fort Carson, CO (\$42M)
- New Birthing Center, Dhahran, Saudi Arabia (\$12M)
- New Cargo Facility, United Airlines, Los Angeles, LA (\$30M)
- New Cargo Facility, United Airlines, Miami, FL
- Fort Worth Corps of Engineers, Airfield Lighting Upgrades for 6 Air Force bases, TX
- Port Authority Trans Hudson Subway
- New York Transit Authority Subway
- North Central Tunnels/Subway
- Fort Sam Houston – new storm and sanitary sewer drainage systems
- West Point Wastewater Plant – Addition of full secondary facility (450 MD)
- Hyperion Wastewater Plant, El Segundo, CA
- Port of Houston Authority – Expansion of the Ramp Point Terminal at Morgan's Point
- Port of Houston Authority – numerous projects
- Bayport Expansion – Hydrographic Surveying and Construction Management
- Union Pacific – heavy rail projects
- Southern Pacific -- heavy rail projects
- Southeastern Pennsylvania Transportation Authority (SEPTA), Payoli, PA – diesel maintenance facility
- Brownsville Ship Channel – deepening and widening
- Cedar Bayou Channel – dredging

- Brazos River Lock – renovations

ADDITIONAL VALUE ENGINEERING EXPERIENCE:

- Gulf Intracoastal Waterway Colorado River Locks, Galveston, TX (Savings of \$1.9M on \$4.5M)
- DART Light Rail Starter Line SOC-2A, Dallas, TX (Savings of \$426,000)
- DART Light Rail Starter Line WOC-1, Dallas, TX (Savings of \$1.7M on \$9M project)
- DART Light Rail Starter Line WOC-2 (Savings of \$2M on \$9M)
- DART Light Rail Starter Line CBD (Savings of \$24.4M on \$40M)
- Brazos Island Harbor, Brownsville Ship Channel Navigation, Galveston, TX (Savings of \$8.7M on \$28.7M)
- JFK Special Warfare Center, Academic Facility, Ft. Bragg, NC
- Dept of Navy, Northern Division, Arlington, VA (Savings of approx. \$860,000)
- US Coast Guard Multi-Mission Station (Savings of \$1.14M on \$3.47M)
- Goodfellow Air Force Base, New Dormitory Facilities, San Angelo, TX