





OEI O'BrienEngineering, Inc. specializing in the complex™



Federal Experience

Celebrating over 30 years since our founding in 1987, OEI serves our federal customers nationwide and overseas through five primary business lines: facilities, infrastructure, water resources, real estate, and support services.

Service Disabled Veteran Owned Small Business obrieneng.com 972 233 2288 TBPE #F-3758

STATEMENT OF QUALIFICATIONS: FEDERAL EXPERIENCE

COMPANY OVERVIEW

Founded in 1987 in North Texas, O'Brien Engineering, Inc. (OEI) was originally established as a specialty civil engineering firm, primarily solving surface water issues - including drainage, flooding, dam/levee, and forensics - in our geographic region. Because of our niche services, we worked for a variety of customers on a range of project types as both a prime and subconsultant. This project, customer, and role diversity afforded OEI the benefit to master our project management protocols and procedures, emphasis on quality at every level, and team and customer communications. Beginning in 2004, our expertise, combined with our management proficiencies and efficiencies, led us to subconsultant opportunities within the federal sector. In 2012, OEI became a certified Service Disabled Veteran Owned Small Business (SDVOSB) and began serving as a prime consultant shortly thereafter.

Today, OEI is a multidiscipline engineering and environmental firm with capabilities in architecture and support services. We serve our federal customers nationwide and overseas. And we remain focused on providing our customers with high quality design and support services in a timely and cost-effective manner. In turn, our customers have consistently given us Exceptional and Very Good CPARS ratings, as well as follow-on contracts and task orders. This work and our overall federal capabilities fall into five broad categories: facilities, infrastructure, water resources, real estate, and support services.

OEI's **core values** are ownership, teamwork, continuous improvement, competence, and ethical behavior. Our purpose and passion is solving our customer's problems; we empathize with our customers, analyze and solve the problem, then deliver the solution. We truly listen to people to really understand the problem and then deliver a thoughtful, comprehensive solution.

FEDERAL BUSINESS LINES

OEI's federal business lines are across five broad areas:

- Facilities
- Infrastructure
- Water Resources
- Real Estate
- Support Services

Our facilities experience is almost exclusively as a prime consultant and includes full Architecture/Engineering (A/E) design and drawing preparation – mechanical/electrical/plumbing (MEP), civil, structural, architectural, cost estimating, etc. – A/E studies and analysis, facility condition assessments, construction phase services, and design-build (D-B) RFP preparation. Serving as both a prime and a subconsultant, our infrastructure project experience includes roads, utilities, parking facilities, and site development services providing full design and drawing preparation, construction administration and construction phase services, and permitting and permitting coordination. For projects involving water resources, OEI is likewise involved as both a prime and subconsultant, and our experience includes complex hydraulic, hydrologic, and hydrodynamic modeling (1-D and 2-D), analysis, design, and reviews for a variety of projects including dam and levee safety and rehabilitation, floodplain management and administration, drainage structures and facilities, and stream/creek/slope stabilization. OEI's real estate capabilities include property and deed research, easement determination, title and closing services, acquisition, negotiation, mapping and GIS support, and surveying. Finally, our support services involve a mix of experience and capabilities including staff augmentation, surveying, project management, and Independent External Peer Reviews/Independent Technical Reviews.

FEDERAL CUSTOMERS

OEI's first federal client was the Department of Defense's US Army Corps of Engineers (**USACE**) Southwester Division's Fort Worth District in 2004. Today, we continue to serve not only the Fort Worth District but also other Divisions and Districts

both as a prime and a subconsultant. Over the years, due to our past performance and exceptional and very good CPARS ratings, we have served (and continue to serve) the Department of Veterans Affairs (VA) across multiple VISNs and multiple states, the Department of Homeland Security's Federal Emergency Management Agency (FEMA) and Customs and Border Protection (CBP), military installations (Lackland AFB, Fort Sam Houston, Laughlin AFB), and the Department of Agriculture's (USDA) Forest Service.

FEDERAL IDIQ/MATOC CONTRACTS

In addition to multiple single project contracts, OEI currently holds two long-term contracts as a prime:

- USACE Fort Worth District Engineering and Construction Support Office A/E IDIQ, SDVOSB Set-Aside, \$15M Capacity – W9126G-15-D-0011
- USACE Tulsa District A&E Services for Horizontal Design, \$65M MATOC W912BV-20-D-0004 (OEI-Etegra JV)
- VISN22 A/E MATOC, AZ, NM, CA, \$20M Capacity 36C258D00047 (OEI-LBL JV)
- VISN17 A/E MATOC, TX, \$25M Capacity 36C25720D0060
- Joint Base San Antonio (JBSA) A&E MAC IDIQ \$67M Capacity, Randolph AFB/Fort Sam Houston TX. Contract number FA301620D0017
- USACE Fort Worth District Real Estate Division Real Estate Support Services MATOC, SDVOSB Set-Aside, \$40M Capacity (Shared Among Two Firms) W9126G-17-D-0028
- USACE Fort Worth District Real Estate Title and Curative Services BPA, Southern Border W9126G-19-A-0030
- VISN 17 Central Texas Health Care System A/E Short Selection Database

FEDERAL DETAILS

- Primary NAICS Code: 541330
- Secondary NAICS Codes: 541620, 541690, 541191, 541310
- DUNS 790794960
- CAGE 1XVZ8
- Registered engineering firm in Alabama, Arizona, Louisiana, Oklahoma, Texas, Utah, and Wisconsin
- SDVOSB Joint Ventures: OEI-Etegra Joint Venture, 1, LLC and OEI-LBL Joint Venture, LLC (SDVOSB Certified)

KEY PERSONNEL

President: Jim O'Brien, PE, CFM, F.SAME. Founder of OEI, Mr. O'Brien has 40 years of experience within the engineering and design industry; he has dedicated his career to the management, planning, design, analysis, and study of engineering and multidiscipline projects. He has served as Program Manager, Principal-in-Charge, and/or Senior Project Manager on numerous federal contracts and task orders serving USACE, VA, FEMA, CBP, and Forest Service. He holds a BS in Civil Engineering, Hydraulics/Hydrology emphasis, from Texas Tech University and has 30 hours toward an MS in Civil Engineering, Water Resources. Mr. O'Brien is a registered Professional Engineer (Civil), Certified Floodplain Manager, and Society of American Military Engineers (SAME) Fellow who is currently serving as the TEXOMA Regional Fellows Point of Contact.

Vice President, Operations / Senior Project Manager: Garry Kraus, PE, MBA. Mr. Kraus serves as our company's Vice President of Operations as well as Senior Project Manager. A seasoned project management and senior engineer, Mr. Kraus has over 40 years of experience providing engineering design and management experience on projects ranging from alleys and minor roadway design to pedestrian trail design, to thoroughfare reconstruction. Mr. Kraus has an established a reputation for understanding client needs through excellent communication initially and throughout project delivery. He holds an MBA from the University of Houston and an MS in Civil Engineering/Sanitary Engineering and BS in Civil Engineering from the University of Maine. He is a registered Professional Engineer (Civil).

Vice President, Finance / Special Projects Manager and Senior Engineer: Joe O'Brien, PE, MBA. Joining OEI in 2017, Mr. O'Brien spent nearly 12 years in the aerospace engineering industry and now directs the company's financial matters as well as specific special project management and client development. At his previous position he served as Director of Engineering and Military Programs, responsible for engineering direction, military business development, and military program management. He holds a BS in Mechanical Engineering from Baylor University and an MBA from the University of Texas at Arlington. Mr. O'Brien is a registered Professional Engineer (Aeronautical/Aerospace).

Federal Project Manager / Senior Civil Engineer: Jim Lyles, PE. With 20 years of experience as an engineer and project manager and a strong reputation as an effective federal project manager on DoD, DHS, and military instillation projects, Mr. Lyles offers a proven understanding of the requirements necessary to produce quality deliverables on schedule and within budget. His management experience ranges from civil site, transportation, aviation, utility design, architectural design, facility rehabilitation, MEP systems design, master planning, and more. A registered Professional Engineer (Civil), Mr. Lyles has an ME in Civil Engineering and a BS in Civil Engineering.

Water Practice Leader / Senior Hydrologist: Gerardo Ocañas, PhD. Dr. Ocañas offers over 35 years of experience in project management, including projects involving other prime contractors, subcontractors that necessitate the interaction with federal, state, county and city governments, as well as community leaders and other interested stakeholders. Dr. Ocanas mastery and fluency of the Spanish language and his ability to professionally communicate verbally and in writing has proven a powerful and vital instrument of communication in getting local people actively involved. Dr. Ocañas experience comprises many fields of civil engineering and water resources. His most recent expertise includes two-dimensional (2D) hydraulic simulation of complex drainage, river, stormwater and wastewater collection systems using leading edge technologies such as InfoWorks, SWMM, HEC computer programs, and others. He has a PhD in Civil-Water Resources Engineering, MS in Civil-Environmental Engineering, and BS in Civil Engineering.

MEPF Manager / Senior Mechanical Engineer: Mary Azad, PE, LEED AP. Ms. Azad's background includes nearly 20 years of experience in mechanical engineering and HVAC design including plumbing and fire protection direction and oversight in the federal, healthcare, and industrial sectors. Her experience includes design for a variety of retrofit and new installation projects. A registered Professional Engineer (Mechanical), Ms. Azad has an MS and BS in Mechanical Engineering.

Senior Project Manager / Senior Environmental and Civil Engineer: Craig Bond, PE. Mr. Bond offers 40 years of experience in civil and environmental engineering project management on project types including railroad, roadway, site development, and on environmental cleanup sites. He provides construction management and project management of a variety of construction types. A registered Professional Engineer (Environmental), Mr. Bond has a BS in Civil Engineering.

Senior Water Resources Project Manager: Kimberly Cornett, PE, CFM, F.ASCE. Ms. Cornett brings depth and experience in with over 20 years of experience in drainage design, floodplain management, and site development throughout the varying regions and topographies of Texas. A registered Professional Engineer (Civil) and Nationally Certified Floodplain Manager, she brings passion for and understanding of infrastructure improvements combined with policy change and guidance through her role in ASCE Fort Worth Branch – Texas Session as Director. She holds an MS in Civil Engineering and Water Resources and a BS in Hydrology and Water Resources.

Vice President, Business Development: Sarah Cole, MBA, F.SAME. Ms. Cole has been with OEI since 2000 and leads our company's business development and marketing initiatives. Her focus is on cultivating, maintaining, and serving federal customers, responsible for client relationship development, pursuit capture management, and proposal strategy, preparation, and execution. She holds a BBA in Entrepreneurship from Baylor University and an MBA from the University of Dallas.

In addition to OEI's leadership and management team, our staff includes Professional Engineers (Civil, Mechanical, Electrical, Aeronautical, Environmental), GIS specialists, Certified Floodplain Managers, title examiners/landmen, and administrative personnel.

EXPERIENCE

Title and Location		Client	Dates
CARRIZO SPRINGS BORDER PATROL CHECKPOINT (CARRIZO SPRINGS, TEXAS)	FACILITY DESIGN	USACE / CBP	2017 – 2018



Under a USACE Southwestern Division (SWD) Fort Worth District contract and serving the Customs and Border Protection (CBP), OEI is leading a fullservice A/E team from design through construction phase services to provide 100% Design Documents for the Carrizo Springs Border Patrol Checkpoint new facility. OEI conducted a Design Charrette to determine the CBP's functional requirements, scope, budget and schedule, and included reviewing the CBP Design Standard for Small Checkpoints; the standard provides the number of personnel, operations requirements, floor layouts and room sizes, equipment requirements, utilities, security, Due Diligence studies, LEED/Sustainable design, commissioning, and site requirements.

Project requirements include a Quality Control Plan, Reviews/Conferences, Utility Connection identification (including drilling test wells for water), production of Demolition Plans, performance of Structural Analysis, using data provided by a previously completed Geotechnical investigation for Design Requirements, preparation of Construction Cost Estimates (PACES) for the Parametric Design (35%) stage, and an MII MCACES for 65%, 95%, and 100% Design Data submittals. The SOW includes a Value Engineering Study, a Design Analysis (DA) prepared in accordance with SWD Architectural and Engineering Instructions Manual (AEIM), user interviews, functional analysis, and cost analyses.

Design and construction considerations include Energy (massing, natural ventilation, daylighting and other passive strategies to meet Sustainability and Life Cycle Cost Analysis requirements), Landscaping, Fencing; Parking, Roadways, Exterior Lighting; Storm Drainage, Storm Water Pollution Prevention Plan; Site Utilities (Domestic Water, Sanitary Sewer, and Natural Gas); Architectural; Comprehensive Interior Design; Structural Interior Design (Programming, Space Planning, furniture footprints, interior finish materials [walls, ceilings, floors, window treatments], accessories, [marker boards, bulletin boards], signage, and built in case work; Furniture, Fixtures, & Equipment (FF&E); Structural (wind, snow, and seismic loading); Mechanical/Plumbing (ASHRAE 90.1-2007); Electrical; Fire Protection; Telephones, Computers, CCTV, Intrusion Detection; Lightning Protection, Grounding; Sustainability; Bidder Inquiries / Amendments (ProjNet).

Highlights

- OEI Role: Prime
- Prime Contract: W9126G-15-D-0011
- Task Order: W9126G17F0179
- Percent Complete: 100% (design); CPS TBD
- OEI Federal Business Line Categories: Facilities, Infrastructure
- Interagency and International Support (IIS)
- Full Design: Mechanical, Electrical, Plumbing, Civil, Structural, Architectural, Interior Design, Cost Estimating, Environmental, Value Engineering, AT/FP, Landscaping
- Construction Phase Services
- Demolition Plans
- Sustainable Design

O'BrienEngineering, Inc.

Title and Location	Client	Dates
CAMPUS PARKING, DRAINAGE, AND SLOPE STABILIZATION IMPROVEMENTS (SHREVEPORT, LOUISIANA)	Overton Brooks Veteran Affairs Medical Center	2016 - 2017
IMPROVEMENTS (SHREVEPORT, LOUISIANA) FINAL STATES (SHREVER) FINAL STATES (SH		56-16-C-0135 00% (Design); Line , Infrastructure hnical, Services ts to Minimize Staff, and hts include across the nt / Personnel / isfaction, and cceptional and , Cost and
damaged the water main and threatened the gas main. And in another location, there had been two substantial slides and future instability was threatening two nearby buildings, a storm sewer, and parking lot infrastructure. OEI prepared the design to the stabilizations and repairs. Between both slopes, approximately 650 feet of slope was stabilized.		
OEI is providing Construction Phase Services (CPS) to include assistance with questions, requests for information (RFIs), clarifications and addendums, and review/coordination of contract modifications/change orders during the construction solicitation phase.		

AR AND MARINE OPERATIONS CENTER FACILITY DESIGN RECONFIGURATION (MARCH AIR RESERVE BASE, RIVERSIDE, CALIFORNIA) ISACE/CBP 2017– 2018 ISACE/CBP 2017– 20
 OEI Role: Prime Prime Contract: W9126G-15-D-0011 Task Order: W9126G17F0205 Percent Complete: 100% (Design); CPS TBD CDEI Is leading a full-service A/E team for the performance of services required for the US Customs and Border Protection, Air and Marine Operations Center (AMOC) Renovation Design for the reconfiguration of several structures at March Air Reserve Base. Established in 1988 to serve as the nation's state-of the-art law enforcement Radar surveillance center operating 24 hours a day, 7 days a week to protect the people and the nation's critical infrastructure through the integration of air and marine forces, the AMOC serves to detect, interdict, and prevent acts of terrorism and the unlawful movement of people, illegal drugs, and other contraband towards and across the borders of the United States. Renovations at the existing AMOC Facility will serve to convert the facility into a secured area. Deliverables includes two options (which have already been executed): an electrical power supply study and construction phase services. The scope includes renovation of approximately 10,000 sf in the AMOC, a main building, and one modular building, utilizing detailed froom by room descriptions of renovations and space repurposing provided by others. This task order provides expanded intelligence work space for Top Secret (Sensitive Compartmented Information Facility (SCIF)). Secret Hevel activity space, and general-purpose administration phase. Beroizes the project will be in an occupied facility, there is to be no down time or loss of mission effectiveness in the areas not under contract. Work includes interior and exterior alterations to SCIF walls, doors, ceilings, windows, and access/circulation, as well as mechanical, electrical, lighting, fire detection, alarm and suppression system, as well as building access walkways and ramps, intrusion detection, access control, and security camera system upgrades to meet currr

Title and Location	Client	Dates
CAMPUS WATER SYSTEM UPGRADE (TUCSON, ARIZONA)	Southern Arizona Veterans Affairs Health Care System	2013 - 2017
OEI provided A/E design and full construction documents on this water system upgrade. The Southern Arizona Veterans Affairs Health Care System (SAVAHCS) comprises a campus of 86 buildings on 116 acres. The facility traces its roots to 1928, with much of the original infrastructure still in use. A comprehensive schematic of the entire system was needed. The water system needed improvements to satisfy numerous demands, including the need to evaluate station water budget, identify losses indicating the likelihood of substantial leaks, improve system reliability, keep pace with technological and regulatory standards, and follow the VA's Department- wide commitment to reduce waste, improve efficiencies, and conserve resources (E.O. 13514). The resulting water system upgrade satisfied The Joint Commission's (JCAHO/TJC) 2009 Standard EM.02.01.01, EP 3, to establish response procedures when local community cannot support the hospital.	 Highlights OEI Role: Prime Prime Contract: VA2! Percent Complete: D CPS 100% OEI Federal Business Categories: Facilities, Water Resources Design: Civil, Mechar Drawing Preparation Construction Phase S Cost Estimating The Joint Commissio CPARS ratings: Qualit Management, and Re all rated Very Good 	esign 100%, Line Infrastructure, hical, Electrical Services n compliance ty, Schedule,
OEI evaluated the existing system and The JCAHO/TJC 96-Hour Rule and provided systems recommendations, schematic design, design development submission, construction documents, final design submissions (including replacement of 300 feet of waterline near the water towers, replacement of 300 feet of waterline near Building 30, replacement of approximately 300 feet of waterline near Building 40, replacement of 10 water valves, replacement of two booster pumps, addition of a third pump for redundancy, replacement of the existing booster pump controller), and construction period services.		
A primary challenge was to identify and locate existing system components from unreliable, outdated documentation. Issues were mitigated by on-site visits and assessments, review of as-built and record drawings to determine required information, and interviews with key station personnel. OEI designed water line and valve replacements, upgraded pumps, and conceptualized the plan forward to help the station meet the 96-Hour Rule requirements while improving reliability. Because some areas have proven to be more difficult (since they are unmapped), the SAVAHCS and OEI developed a follow-on contract to isolate parts of the system to facilitate the repairs.		

Title and Location	Client	Dates
FREER BORDER PATROL STATION CAMPUS DESIGN (FREER, TEXAS)	USACE/CBP	2017 – 2020
OEI is leading a multidiscipline A/E team from design through construction phase services for the full design of a 250 Agent Border Patrol Station in Freer. This task order is off one of OEI's IDIQ contract with the USACE Fort Worth District, which was principally developed to support the Customs and Border Protection (CBP). The scope includes 100% design documents (Civil 3D, Revit, and Microstation) conforming to CBP design criteria. The task order requires the development of a Design Quality Control Plan, Design Charrette, Parametric Design (35%), Preliminary Design (65%), Advance Final Design (95%), Corrected Final Design (100%), Demolition Plans, Structural Analysis, Construction Cost Estimates, Topographic Surveys, Value Engineering study, Geotechnical Engineering and testing, as well as the full design requirements: site, landscaping and fencing, parking and roadways, exterior lighting, storm drainage and Storm Water Pollution Prevention Plan, site utilities, architectural, comprehensive interior design requirements, structural Anti-Terrorism Force Protection (AT/FP) and Progressive Collapse, Mechanical/Plumbing, Electrical, Fire Protection, Telephones / Computers / CCTV / Intrusion Detection, Lighting Protection and Grounding, and Sustainable Design (CBP Sustainability Design Requirements). Scope includes Construction Phase Services.	0011 Task Order: Percent com OEI Federal Categories: Full Design: Mechanical/ AT/FP, Inter Architecture Environmen Geotechnica Architecture Sustainable Drawing Pre \$65M Const	act: W9126G-15-D- W9126G17F0179 pplete: 100% Business Line Facilities, Infrastructure Civil, Structural, /Plumbing, Electrical, ior Design, e, Cost Estimating, tal, Fire Protection, al, Landscape Design
 The new station includes: 250 Agent Border Patrol Station 10 Horse Equestrian Facility 8 Dog Short-Stay Kennel Four-Point above-ground Fueling Island with 12,000-gallon tank 100' Communications Tower with IR surveillance camera Two bay Car Wash facility Parking Area for 120 vehicles and 12-vehicle impound lot Four-bay Vehicle Maintenance Facility Heli-pad (this is a remote location with no other heli-pads nearby) ATV Shed for 10 ATVs Treated Water Well and Anaerobic Septic System 50-yard Indoor Firing Range with six lanes 		

Title and Location	Client	Dates
SOUTHERN RIO GRANDE VALLEY LEVEE WALL DESIGN-BUILD RFP PREPARATION (RIO GRANDE VALLEY, TEXAS)	USACE/CBP	2017 – 2019
OEI is leading a multidiscipline A/E services team to prepare a Design-Build (D-B) Request for Proposal (RFP) for floodwall, fence, roads, drainage and lights at the Rio Grande Valley Sector. This task order is off one of OEI's IDIQ contract with the USACE Fort Worth District (through its IIS Program), which supports other USACE Districts and other federal agencies but was principally developed to support the Customs and Border Protection (CBP). The Government will construct new, and modify existing, flood risk management features that are interconnected and necessary to exclude flood waters from the floodplain while providing border security along the Southern Border. The design and completed construction will be approved and certified for the FEMA national database for flood protection. The project entails approximately 7.9 miles of levee wall construction in the Rio Grande Valley Zones 11, 12, and 13. The project alignment will be on the south toe of the north U.S. International Boundary and Water Commission (IBWC) levee along Maintenance Road, within the 32.8 miles in the Government's base bid project. The completed D-B RFP will consist of reports and other data, and all necessary supporting materials, which will include information gleaned from previously completed surveys, as well as geotechnical and drainage studies. OEI is also providing the Construction Cost Estimate/Current Working Estimate. The scope includes development of a Design Quality Control Plan, Reviews and Conferences, Confirmation Notices and Status Reports,	 Highlights OEI Role: Prime Prime Contract: W9 0011 Task Order: W9126 Percent complete: OEI Federal Busine: Categories: Infrastr Resources, Real Est Services Design-Build RFP Pi Interagency and Inf Support (IIS) CPARS ratings: Ver Quality and Very G 	GG17F0183 100% ss Line cucture, Water cate, Support reparation ternational y Good for

FACILITY CONDITION ASSESSMENTS OF DEFENSE LOGISTICS AGENCY FACILITIES, SAN DIEGO AREA, CAUSACE/DLA2018USACE/DLA2018HighlightsOEI Role: PrimePrime Contract: W9126G- 0011Under a USACE Fort Worth District IDIQ contract (W9126G-15-D-0011, Task Order W9126G18F0083) serving the Defense Logistics Agency (DLA), OEI Ied a multidiscipline Architecture/Engineering team on-site to provide a Facility Condition Assessment (FCA) of over 30 buildings and associated facilities at three DLA compounds in the San Diego area. The OEI team assessed approximately 1,000,000 square feet of buildings and over 20 acres of paving and fencing. Providing logistical support to DoD agencies, the facilities, warehouses for bulk storage and material distribution and reutilization, and administrative office space.USACE/DLA2018	
 OEI Role: Prime Prime Contract: W9126G- 0011 Task Order: W9126G18F0 Percent complete: 100% OEI Federal Business Line Categories: Infrastructure Services BUILDER assessments OEI coordinated 16 assess field BUILDER assessments OEI coordinated 16 assess field So buildings and facilities at three DLA compounds in the San Diego area. The OEI team assessed approximately 1,000,000 square feet of buildings and over 20 acres of paving and fencing. Providing logistical support to DoD agencies, the facilities, warehouses for bulk storage and material distribution and reutilization, and administrative office space. 	
 FCAs included buildings, roofs, and outdoor facilities (pavement and fencing). Building assessments included foundations, basement construction, superstructure, exterior enclosures, roofing systems, interior construction, stairs, interior finishes, conveying, plumbing, HVAC, fire protection, electrical, equipment, furnishings, special construction, and site improvements. BUILDER was used to document the conditions and manage assets. Roof assessments included direct observation, where it could be done safely, and pole mounted camera assessment for sloped roofs and inaccessible locations. BUILDER Sustainment Management System and its field tool BUILDER Remote Entry Database (BRED) was used for building the facility inventory and documenting the facility conditions. BRED output was used for quality control to ensure all facilities were assessed and that the assessments were internally consistent and correctly documented. Life safety issues were noted on special forms for more rapid resolution. OEI led the team of 16 assessors and managers in the field, including architects and mechanical/plumbing, electrical, and civil engineers. The OEI team ensured compliance with regulations and protocols, including Antiterrorism and Operation Security and the USACE 385-1-1 safety manual. Deliverables included a Quality Control Plan (QCP), Safety and Health Plans per USACE 385-1-1, FCA photos, Draft Package (BUILDER report, plus all associated supporting materials including photos, calculations, Eagle View Technologies roof reports, in brief/Out brief reports, sketches, GIS data, and 	20083 e, Support assors in the sildings, l electrical, chitectural innovative asments, a now a hal in al in gement of n an on- ery in spite d site visit ayed in g the dule. This d without a for the FCA ed just days forts for the needs.

Fitle and Location	on Client Dates	
SAIPAN AND ROTA AIRPORTS FACILITY CONDITION ASSESSMENTS (COMMONWEALTH OF NORTHERN MARIANA ISLANDS (CNMI))	USACE/CBP	2016 - 2017
	Highlights OEI Role: Prime Prime Contract: W92 0011 Task Order: 0007 Percent Complete: 1 OEI Federal Business Categories: Facilities Services 	00% s Line , Support
OEI was engaged to provide facility condition assessments and Operation and Maintenance (O&M) scope developments at two Customs and Border Protection airports at Saipan and Rota. This task order is off one of OEI's IDIQ contract with the USACE Fort Worth District (through its IIS Program), which supports other USACE Districts and other federal agencies but was principally developed to support the Customs and Border Protection (CBP). The Fort Worth District managed the work on this task order for the CBP. OEI provided the labor, management, investigations, studies, travel/preparations, supplies, equipment, and materials to perform the services. OEI led the team in CNMI, providing the mechanical, electrical, and civil engineering and architecture disciplines. OEI coordinated with a local mechanical and electrical testing company to provide the required testing on specific equipment.	 Facility Condition As Mechanical, Electrica Disciplines Overseas Support Operations & Mainte Development Renovation/Repair p Interagency and Inte Support (IIS) 	al, and Civil enance Scope projects
The goal of the work was to provide CBP's Office of Administration a list of emergent repairs including Construction Administration reports, O&M scopes to provide routine, preventative, and emergency repair, operations and maintenance services for the facilities and infrastructure at the two airports.		
OEI's staff coordinated the work and travel with both USACE and CBP and completed the condition assessments within one week. The condition assessments included utility meters, fixtures, interior finishes, communications systems, power systems, lighting systems, hot water heating systems, building envelope and roofing systems, pumps/motors/piping systems, fire suppression systems, HVAC systems, plumbing and water distribution systems, and site work.		

Title and Location	Client	Dates
RIO GRANDE CITY COMMAND & CONTROL FACILITY DESIGN-BUILD RFP DEVELOPMENT (TEXAS)	USACE/CBP	2017
OEI developed a Design-Build (D-B) Request for Proposal (RFP) to construct a Command and Control Facility (C2) in support of the Office of Technology Innovation and Acquisition (OTIA) at the Border Patrol Station in Rio Grande City. OEI's IDIQ contract is through the USACE Fort Worth District's Engineering and Construction Support Office (IIS Program), and supports other USACE Districts, and other federal agencies but was principally developed to support the Customs and Border Protection (CBP). The Fort Worth District managed the work on this task order for the CBP. OEI prepared a D-B RFP denoting all design (including civil, mechanical, electrical, plumbing, fire protection, anti-terrorism/force protection, architectural, IT, etc.), construction, and performance requirements to complete a useable facility. Tasks included the Design Quality Control Plan, 35% conceptual plans, development of construction cost estimates/current work estimates (PACES for the Draft D-B and MII MCACES Version 4.2 for the Final D-B RFP), as well as a Design-Build construction contract for site and facility. The 35% conceptual plans included architect, civil engineer, mechanical engineer, electrical engineer, cost estimator, and support staff involvement.	Highlights • OEI Role: Prime • Prime Contract: WS 0011 • Task Order: 0003 • Percent Complete: • OEI Federal Busines Categories: Facilitie Support Services • Interagency and Int Support (IIS) • CPARS ratings: Very Schedule, Cost Com Management • Customer comment good communication USACE team at all t the project. Meeting follow up were thom Contractor was com responsive and word USACE contract req	100% ss Line s, Infrastructure, ernational y Good on trol, and t: <i>"[OEI] kept</i> on with the imes throughout og notes and rough. sistently rked to meet
The D-B RFP included technical specifications, technical evaluation criteria, special phasing requirements, and reference drawings. All submittals were prepared in accordance with USACE instructions, regulations, and manuals and conformed to CBP criteria. The scope of work included conducting a pre-proposal conference and site-visit, making a presentation of the general RFP development concept and project features, and preparing an agenda and organizing the conference so that all technical and functional issues were addressed. Due to project site restrictions and operations, all on-site personnel were required to be vetted and cleared prior to site access, with final site access approval determined by the Department of Homeland Security (DHS).		

Title and Location	Client	Dates
RATCLIFF DAM ASSESSMENT AND REHABILITATION (LUFKIN, TEXAS)	USDA Forest Service	2017
The U.S. Forest Service (USFS) (Department of Agriculture) engaged OEI to provide engineering services to investigate and determine the extent of damage and efforts required to repair the dam and spillway at Ratcliff Dam/Ratcliff Lake, located in the Davy Crockett National Forest, Ratcliff Recreation Area. OEI performed a feasibility study, including site observations and damage assessment, and subsequently provided repair options and a summary submittal of the discussions. OEI was then selected to develop designs for the dam rehabilitation, providing complete designs including a construction-contract ready package of plans, specifications, and cost estimates. The scope included designs and construction administration for repairs to the dam, spillway, and downstream channel, as well as the access road for maintenance and future repairs. OEI also provided erosion control plans, 404 permitting, and Texas Commission on Environmental Quality (TCEQ) coordination. OEI analyzed the existing hydraulic structure (spillway and dam) to determine if it met TCEQ and USFS design requirements, determining the dam needed upgrading. Water depth analysis and velocities were performed at the transition between the spillway outfall and creek channel. Roadway culverts were designed along the maintenance road to handle local drainage. OEI designed the concrete spillway and grouted riprap flume, including structural design of concrete flatwork and training walls. The earthen dam embankment is composed of clayey sands with some permeability. The geotechnical engineer performed a seepage analysis as part of the design of spillway cutoff walls. A slope analysis was performed to assess the ultimate stable slope of the embankment and address shallow sloughing along the downstream face of the dam. OEI used ArcGIS for all base map generation, hydrology delineation, and inundation area mapping. Historic data was georeferenced to survey data and georeferenced aerials. TCEQ's Gridded PMP Tool was used to determine basin rainfall totals for	Highlights • OEI Role: Prime • Prime Contract: AG4 • Percent Complete: 1 • OEI Federal Busines Categories: Infrastru Resources • Evaluating stream st • Stream restoration a rehabilitation design • Developing stream st • Flood studies in steat unsteady state HEC- • State and federal su permitting, and com • Dredging • Hydraulic and hydro and analysis • Stream geomorphol • Erosion risk and pro identification • GIS analysis and dat development • Field reconnaissance • Field review and eval • Conceptual project and structures • Analysis and design structures • PPQ ratings: Very G Schedule / Timeline Performance, Custo Satisfaction, Manag Personnel / Labor, C Management, and	100% s Line ucture, Water tability and stabilization and ady and RAS bomittals, apliance ologic modeling ology blem area abase e aluation solutions of hydraulic ood on Quality, ss of mer ement / Cost / Financial

Title and Location	Client	Dates
AUDIE L. MURPHY VA MEDICAL CENTER, REPLACE WATER SOFTENERS WITH BRINE TANKS (SAN ANTONIO, TEXAS)	Southern Texas Veterans Health Care System, Audie L. Murphy VAMC	2018
In the Mechanical Room. A medical vacuum system has since been installed within the same area. The hospital area has increased significantly since 1973, yet there is no additional area to accommodate the new system must be designed to occupy the original space.	 Highlights OEI Role: Prime Prime Contract: 36C2 Percent Complete: 11 OEI Federal Business Categories: Facilities PPQ rating: Exception Exceptional on Schere Exceptional on Cost "has been very profe done their due dilige projectquality and has been superb." – G [OEI's] timing has be every single mark." – 	00% (design) Line , Infrastructure nal on Quality, dule, Control. [OEI] ssional and has nce on this level of detail on Quality; en on point on
The scope included (1) preparing the CAD floor plan of the Mechanical Room as no CAD plans were available, (2) analyzing the existing system for size, capacity and demand and sizing the water softeners accordingly, (3) preparing plans, details, and specifications for the replacement of the softeners with the new softeners, (4) specifying associated equipment and devices, (5) preparing a cost estimate, (6) conducting a structural condition		

inspection of the tank, (7) preparing a report assessment with recommendations for repair/replacement and (8) conducting an asbestos

survey of the mechanical room.

Title and Location	Client	Dates
USACE FORT WORTH DISTRICT'S MEMORANDUM OF RECORD FLOODS 2015 – 2016 (TEXAS)	USACE Fort Worth District	2016-2017
OEI was engaged to develop a comprehensive memorandum, <i>Memorandum of Record Floods of 2015 – 2016</i> , for the USACE Fort Worth District's Water Resources Branch. OEI delineated watersheds based on USGS gage placements within major river systems in Texas. Services provided included project management, writing, editing, organization and coordination of a multi-agency project effort. Upon completion of the investigations and studies, OEI prepared and furnished reports and other data, and supporting materials that described the floods experienced in Texas during the years 2015 and 2016 in the Trinity, Guadalupe, Nueces, Brazos, Colorado, Lavaca/Navidad, Red, San Jacinto, Neches, and Sabine River Basins. The Fort Worth District partnered with the National Weather Service (NWS), the U.S. Geological Survey (USGS), and the North Central Texas Council of Governments (NCTCOG) as part of this effort. The NWS, NCTCOG, and USGS contributed information that OEI incorporated in the report, along with details about each agency and how the agencies worked together during the flooding events. The report included information on damages prevented from Fort Worth District lake, as well as available state-wide damage information. HEC-MetVue was utilized to develop hyetographs over a given watershed using hourly rainfall data obtained from NOAA for a chosen time period. The resulting hyetographs were then compared to the stream stage-discharge data provided by the USGS. Additionally, OEI developed a condensed version of the report using Esri StoryMap, a web-based platform.	Highlights• OEI Role: Prime• Prime Contract: W93 0011, Task Order 00• Percent complete: 1• OEI Federal Business Water Resources• Hydrologic and hydr• HEC-MetVue and Arr• Multiple federal and coordination• CPARS ratings: Very (Management)• Customer comment: order required subst coordination with a 	06 00% s Line Category: aulic modeling cGIS s state agency Good : "This task antial number of nd piecing the erent agencies nat of data. han just normal actor should be ng that. [OEI] act on time and o printed the final report of the final re

using gridded daily rainfall data from NOAA.

itle and Location	Client	Dates
FORT SAM HOUSTON NATIONAL CEMETERY ADMINISTRATION (NCA) SURVEYS (SAN ANTONIO, TEXAS)	USACE Fort Worth District	2016-2017
OEI performed field topographic, planimetric, tree, and utility surveys, office computations, and 3D digital mapping of a defined area at the Fort Sam Houston (FSH) National Cemetery (NCA), within and, in part, around the Veterans Affairs (VA) property in San Antonio, Bexar County, under two task orders. These task order are off one of OEI's IDIQ contract with the USACE Fort Worth District; USACE provided contract management to the NCA on this project. The survey area totaled approximately 65 acres, split into seven	Highlights • OEI Role: Prime • Prime Contract: W9 0011 • Task Order: 0001 and • Percent Complete: 1 • OEI Federal Busines: Categories: Real Est: Services • CPARS rating: Very 6 • Customer comment draft submission wa was very near a core	d 0008 .00% 5 Line ate, Support Good (Quality) : <i>"The initial</i> s very good…it
areas throughout the VA cemetery. OEI obtained geographic information and elevations for all ground locations and structures. This data was incorporated into the facility mapping and survey controls. OEI coordinated with the VA to enter the site, including active areas of the cemetery. A portion of the survey area is owned by the City of San Antonio Parks		
Department. This property is to be acquired for a new facility entrance. OEI arranged surveyor right of entry with the City, and provided survey data for use in property acquisition, planning, and design.		
Existing survey control monuments were used where available. OEI established new control monuments where needed, and were documented per EM 1110-1-1002 Survey Markers and Monumentations. OEI performed property research to locate utility information, including as-builts and GIS data. This was combined with the site survey to establish the utility locations. Details of utility poles and manholes were recorded and documented with photos. Communication vaults were also documented using butterfly sketches of the incoming and outgoing cable banks. Survey drawings were provided in AutoCAD using the Tri-Services A/E/C Release 5.0 standards, and client-specified naming conventions.		
OEI performed the survey in accordance with USACE Engineering Manuals: EM 385-1-1 Safety and Health Requirements, EM 1110-1-1002 Survey Markers and Monumentations, EM 1110-1-1003 NAVSTAR Global Positioning System Surveying, EM 1110-1-1005 Control and Topographic Surveying, and ER 1110-1-12 Quality Management. OEI prepared a Work Plan, Quality Management Plan, and Safety Plan to help ensure compliance with USACE standards and to successfully manage the work and provide a quality product within the tight schedule. Deliverables included AutoCAD files of survey data and surface information, point files, field notes, Geodetic		
Control Station Forms and U-Smart forms, utility sketches, photographs and checklists.		

USACE FORT WORTH DISTRICT REAL ESTATE MATOC, TITLE SERVICES FOR HIDALGO COUNTY, TX	USACE Fort Worth District Highlights	2017 – 2021
Stra flex Ser sites	Highlights	
Under this \$40M Multiple Award Task Order Contract (MATOC) managed by the Department of Defense's US Army Corps of Engineers for the Department of Defense's US Army Corps of Engineers for the Department of Homeland Security's Customs and Border Protection (an Interagency and International Support (IIS) contract), OEI is one of two awarded firms. OEI's prime contract number is W9126G-17-D-0028. The Real Estate MATOC provides for real estate support services including title research, appraisals, surveys, negotiation services, escrow support, land mapping, land research, Declaration of Taking preparation, relocation assistance, and bilingual/Spanish language translation. The region for services under this contract includes Texas, New Mexico, Arizona, and California.	 OEI Role: Prime Percent complete: 5 contract), 100% (Nat Order) Task Order W9126G OEI Federal Business Categories: Real Esta Interagency and Inter Support (IIS) 	med Task 18F0149 5 Line ate

Title and Location	Client	Dates
GREEN HOUSE CONCEPT COMMUNITY LIVING CENTERS SITE DEVELOPMENT & ENVIRONMENTAL PERMITTING (TOMAH, WISCONSIN)	Tomah Veterans Affairs Medical Center	2016-2017
Image: Construction of the green homes included in the Green House concept Community Living Center. The primary focus was to develop a series of facilities that accommodated more than 50 veterans within the complex.OEI is providing road, driveways, and parking lot designs for new construction, utility extensions to serve the new buildings, and designed the 	 Highlights OEI Role: Subconsult Percent complete: 14 OEI Federal Business Categories: Facilities Water Resources Phased improvement impacts to patients, visitors Evaluating drainage developing alternative Localized hydrology Development of contineers Environmental perment Water quality Detention pond desites Multiple regulatory as compliance 	00% 5 Line 5 Infrastructure, 1 Infrastructure, 1 Is to minimize 1 Is to minimiz

Title and Location	Client	Dates
FEMA SUBSTANTIAL DAMAGE ESTIMATES (SDE) IN FLOOD IMPACTED COUNTIES (LOUISIANA)	FEMA	2016
	 OEI Federal Categories: S Substantial I FEMA's Substantial I Manual Flood damag BCA Tool Post disaster assessments 	nplete: 100% Business Line Support Services Damage Estimator (SDE) stantial Improvement Damage Desk Reference ge estimates r preliminary damage

itle and Location	Client	Dates
RED RIVER ARMY DEPOT CANEY LAKE TEST TRACK DRAINAGE STUDY AND CANEY LAKE DAM REPAIR (TEXARKANA, TEXAS)	USACE Fort Worth	2017 – Current
OEI was engaged to provide A/E services for the preparation of the Caney Lake Test Track Drainage Study and the Design-Bid-Build (DBB) Request for Proposal (RFP) for the repair of the Caney Lake Dam's spillway at the Red River Army Depot (RRAD). The RFP denotes all design, construction, and 	 Contract/Ta D-0018 / WS Percent Con OEI Federal 	y repair

Title and Location	Client	Dates
FEMA HAZARD MITIGATION TECHNICAL ASSISTANT PROGRAM GRANT REVIEWS (VARIOUS)	FEMA	2016
To provide technical assistance and support to FEMA in performing reviews	Categories: N Support Serv • Flood Hazard Reviews	iplete: 100% Business Line Nater Resources,
of Hazard Mitigation Assistance (HMA) program applications under the Pre- Disaster Mitigation and Flood Mitigation Assistance programs, OEI was engaged as a subconsultant to serve on-site for four weeks during 2016. OEI provided support in conducting cost effectiveness and feasibility reviews, on primarily flood risk reduction reviews, for HMA grant applications. OEI		
functions included conducting feasibility reviews, benefit/cost analysis reviews, and summary reporting. Feasibility reviews involved verifying that all technical information submitted in support of the application complied with applicable codes and standards, regulations, and guidance, and verification of assumptions. Benefit Cost Analysis (BCA) reviews involved confirming that the documentation provided ensured all requirements of		
guidance was met; evaluation of the general analysis approach including a review of principal BCA parameters, such as hazard data, data regarding the facilities to be protected by the project, historical losses, and the useful life and projected level of protection for the project; and, reanalysis when possible to correct any errors made. The BCA reviews were performed		
within the standards of the FEMA BCA Tool or other FEMA approved methodology. Finally, the Summary reporting included conclusions from the programmatic, feasibility, and BCA reviews, including a verified benefit-cost ratio and all supporting documentation.		

itle and Location	Client	Dates
FORT SAM HOUSTON MEDICAL EDUCATION AND TRAINING CAMPUS GET WELL DRAINAGE STUDY (JOINT BASE SAN ANTONIO, TEXAS)	USACE Fort Worth	2017 - 2018
 OEI was engaged to provide a comprehensive drainage study and report on the Medical Education and Training Campus (METC) to support the rehabilitation and renovation of two primary areas and multiple buildings. OEI's scope included: Evaluation of existing conditions including but not limited to, areas around existing buildings, walkways, sidewalks, lawns and detention areas. Performance of a camera survey of the existing area drains including piping to ensure proper drainage. Preparation of a hydraulic survey and analysis of the existing drainage infrastructure to determine the adequacy of the infrastructure. Submission of a drainage study/report submittal for both general areas that include recommended work with costs associated to correct problem areas and deficiencies. 	Highlights OEI Role: Subconst Contract/Task Ord D-0018 / W9126G Percent Complete: OEI Federal Busine Categories: Infrast Resources Inspection service: Drainage Study/Re Detention analysis Hydraulic analysis infrastructure Construction Phas 	er: W9126G-17- 17F0106 100% ess Line ructure, Water port of existing
OEI participated in a Design Charrette, and assisted with the validation the project scope, budget and schedule, gathered information and Due Diligence studies, and assisted in the performance of non-destructive testing, surveys and analysis of the existing conditions.		
OEI's analysis of the existing conditions included supervising the performance of a non-destructive, in-line camera survey of existing area drains and piping to document current drainage conditions within the system. OEI is developing a hydraulic survey with analysis of the existing drainage infrastructure. The hydraulic survey will include modeling the storm sewer system draining both areas using the hydraulic modeling software StormCAD. The model will aid in assessing the adequacy of the existing storm sewer system, including the quantity and sizing of the inlets and pipes.		
OEI is compiling the information gathered from the in-line camera survey and the hydraulic survey. From this information OEI will assist in the determination of the adequacy of the infrastructure. These determinations will be compiled and submitted in a notebook format Study/Report. The Study/Report will contain both written and graphic information. A Parametric estimate will accompany the study/report.		

Title and Location	Client	Dates
CONSTRUCTION PHASE SERVICES: FACILITIES MANAGEMENT AND ENGINEERING FIELD OPERATIONS FACILITIES SUPPORT OFFICE SUPPORTING CBP (ALBAMA, LOUISIANA, MISSISSIPPI, TEXAS)	USACE Fort Worth / CBP	2013-2014
As a subconsultant, OEI provided construction phase services and professional support services to Customs and Border Protection, Facilities Management and Engineering (FM&E), Field Operations Facilities (FOF), and Program Management Office (PMO). OEI was responsible for providing program support to FOF and PMO consisting of mid-level and senior-level Design Analysis & Engineering Construction Managers and Architect. This support assisted in developing, executing, and managing on-going initiatives (including program management planning, program analysis, projects, construction oversight, scheduling, security, and risk management) needed to overcome potential program management challenges. Responsibilities included providing project management support to the FOF and PMO Regional Project Management Branches and the Design Analysis and Engineering Branch for specific Land Ports of Entry (LPOEs). Subject Matter Expert consulting, facility analysis, project coordination, analysis and policy development, project completion standard operating procedure, design standard development, and maintenance of the facility database (TRIRIGA) were part of day-to-day activities. Projects required on-site construction inspection for facilities including Laredo Federal Inspection Services/General Aviation Facility, Santa Teresa Station (El Paso), Rio Grande Valley Sector Facility (Edinburg), Tornillo Land Port of Entry, and Birmingham Federal Inspection Services facility.	 Highlights OEI Role: Subconsule Percent Complete: OEI Federal Busines Categories: Facilitie Support Services Construction Phase On-Site Construction Guidance On-Site construction Assurance inspection On-Site review of c documents and subtilities On-Site review of c submitted shop drassubmittals for confit the approved planss On-Site evaluation methods and mate On-Site evaluation for conformance w building codes 	100% ss Line es, Infrastructure, e Services on Inspection and on Quality on and reporting ontract omittals ontractor awings and ormance with and specs of construction rials of construction