

MATOC for A-E CPS for Military and Civil Works primarily for the Fort Worth District and within the Southwestern Division Area of Responsibility Unrestricted with a Small Business Reserve

Solicitation Number: W9126G-20-R-0099 - **SMALL BUSINESS**

Date: January 4, 2022



Submitted to:



Submitted by:

MHZ JV

A MENTOR PROTEGE JOINT VENTURE



PART I, SECTIONS A - C



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January 4, 2022

ARCHITECT - ENGINEER QUALIFICATIONS

PART I - CONTRACT-SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

1. TITLE AND LOCATION (*City and State*)

MATOC for A-E CPS for Military and Civil Works primarily for the Fort Worth District and within the Southwestern Division Area of Responsibility Unrestricted with a Small Business Reserve

2. PUBLIC NOTICE DATE

October 26, 2021

3. SOLICITATION OR PROJECT NUMBER

W9126G-20-R-0099 - **SMALL BUSINESS SET ASIDE**

B. ARCHITECT-ENGINEER POINT OF CONTACT

4. NAME AND TITLE

Manish Mardia, PE - JV Chairman

5. NAME OF FIRM

MSMM Huitt-Zollars A Joint Venture

6. TELEPHONE NUMBER

504-559-1897

7. FAX NUMBER

8. E-MAIL ADDRESS

mmardia@msmmeng.com

C. PROPOSED TEAM

(Complete this section for the prime contractor and all key subcontractors.)

	PRIME	J-V PARTNER	SUBCONTRACTOR	9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
a.	X			MSMM Huitt-Zollars A Joint Venture DUNS #117073814 <input type="checkbox"/> CHECK IF BRANCH OFFICE	4640 Carrollton Avenue Suite 220 New Orleans, LA 70119	Program Management, Human Resources, Civil Engineering, Architecture, Electrical Engineering, Mechanical Engineering, Structural Engineering, Landscape Architecture, Hydraulic Engineering, Cost Estimating, Scheduling, Quality Assurance
b.		X		MSMM Engineering, LLC (SB) DUNS #969989370 <input type="checkbox"/> CHECK IF BRANCH OFFICE	4640 Carrollton Avenue Suite 220 New Orleans, LA 70119	
c.		X		MSMM Engineering, LLC (SB) DUNS #071392535 <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	13850 Gulf Freeway Suite 202A Houston, TX 77034	
d.		X		Huitt-Zollars, Inc. DUNS #156399560 <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	500 W. 7th Street Suite 300 Fort Worth, TX 76102	
e.		X		Huitt-Zollars, Inc. DUNS #080747660 <input type="checkbox"/> CHECK IF BRANCH OFFICE	5430 LBJ Freeway Suite 1500 Dallas, TX 75240	
f.		X		Huitt-Zollars, Inc. DUNS #080994571 <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	10350 Richmond Avenue Suite 300 Houston, TX 77042-4248	
g.		X		Huitt-Zollars, Inc. DUNS #080747660 <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	5822 Cromo Drive Suite 210 El Paso, TX 79912	
h.			X	Vernadero Group Incorporated (VOSB) DUNS #114054054 <input type="checkbox"/> CHECK IF BRANCH OFFICE	3400 S. Carrollton Avenue #850752 New Orleans, LA 70185	Environmental Support, Field Support
i.			X	ETTL Engineers & Consultants (WOSB) DUNS #052125457 <input type="checkbox"/> CHECK IF BRANCH OFFICE	1717 East Erwin Tyler, TX 75702	Geotechnical Engineering
j.			X	R. Christopher Goodwin & Associates, Inc. (SDB) DUNS #139241665 <input type="checkbox"/> CHECK IF BRANCH OFFICE	309 Jefferson Highway Suite A New Orleans, LA 70121	Archaeology



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C. PROPOSED TEAM

(Complete this section for the prime contractor and all key subcontractors.)

	PRIME	J-V PARTNER	SUBCON- TRACTOR	9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
k.			X	Terrane Engineering Corporation (HUBZone) DUNS #556047512 <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	507 E Boston Circle Chandler, AZ 85225	Geotechnical Engineering Support
l.			X	The Rios Group (WOSB) DUNS #078570979 <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	7400 Sand St Fort Worth, TX 76118	Subsurface Utilities
m.			X	Citadel CPM, Inc. (SDVOSB) DUNS # 791784460 <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	482 S Arroyo Pkwy Unit 230 Pasadena, CA 91105	Scheduling
n.			X	Building Tech Team, LLC (HUBZone) DUNS #079871456 <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	16061 Moore Rd Von Ormy, TX 78073	Mechanical Engineering, Electrical Engineering, Plumbing
o.			X	Garabedian Associates (SDB) DUNS #009764349 <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	16218 Juan Tabo Way Helotes, TX 78023	Fire Protection Engineering
p.			X	JESCO Environmental & Geotechnical Services (WOSB) DUNS #948076989 <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	1701 S Thibodeaux Rd Jennings, LA 70546	Environmental Engineering (HAZMAT)
q			X	Michael Baker International, Inc. DUNS #956772347 <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	Airside Business Park 100 Airside Drive Moon Township, PA 15108	Multi-discipline Support



PART I, SECTION D



LEGEND

MSMM Huitt-Zollars A Joint Venture - MHZ JV

East Texas Testing Lab - E TTL

R. Christopher Goodwin & Associates, Inc. - RCG

Building Tech Team - BTT

Garabedian Associates - GA

***All key disciplines requested in the solicitation are shown in red and are represented by resumes in Section E; the firms named in gold below will provide specialty support only, and no Section E resumes are provided



PROGRAM MANAGER
Manish Mardia, PE (MHZ JV)

TECHNICAL DISCIPLINES

HUMAN RESOURCES (HR)/STAFFING PROFESSIONAL Bonnie O'Brien, SPHR (MHZ JV)	STRUCTURAL ENGINEER Bob Yokum, PE (MHZ JV) William Wallace, PE, SECB (MHZ JV)	HYDRAULIC ENGINEER Rob Armstrong, PE, CFM (MHZ JV)
CIVIL ENGINEER Jim Wilson, PE (MHZ JV) Gilbert Aragon, PE (MHZ JV)	LANDSCAPE ENGINEER Chris Scott, RLA, ASLA, CNU-a, LEED AP (MHZ JV)	FIRE PROTECTION ENGINEER Andre Garabedian, FPE (GA)
ARCHITECT Bob Sims, RA, CQM (MHZ JV) Lorena Holguin, AIA, LEED AP (MHZ JV)	GEOTECHNICAL ENGINEER Stephen R. Richards, PE (ETTL)	COST ESTIMATOR Don Daigle, CVS, CPE (MHZ JV)
ELECTRICAL ENGINEER Harry Hawney, PE (MHZ JV) Scott Parma, PE, LEED AP (MHZ JV)	ENVIRONMENTAL ENGINEER Marty Tittlebaum, PE (MHZ)	QUALITY ASSURANCE REPRESENTATIVES Dani Alexander (MHZ JV) Aurelio Paez, CQM (HZ) Charles Carson, CQM (HZ) Gabe Mercado, CQM (HZ) Bobby Lucero, CQM (HZ)
MECHANICAL ENGINEER Carlos Arguijo PE, LEED AP BD+C, CxA, CQM (MHZ JV) Phillip Guajardo, PE, CxA (BTT)	ARCHAEOLOGIST Janice McLean (RCG)	SCHEDULER Nathan Turner (MHZ JV)

SUPPORT DISCIPLINES

GEOTECHNICAL ENGINEERING SUPPORT Terrane	ENVIRONMENTAL ENGINEERING SUPPORT JESCO
SUBSURFACE UTILITIES The Rios Group	MULTI-DISCIPLINE SUPPORT Michael Baker International

PART I, SECTION E





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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
Manish Mardia, PE	Project Manager	27	10
15. FIRM NAME AND LOCATION (City and State) MHZ JV New Orleans, LA			
16. EDUCATION (Degree and Specializing) MS, Civil Engineering, University of Jodhpur, 1994 BS, Civil Engineering, Louisiana State University, 1990		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer/Environmental (1999): LA (#28482), MS (#18522)	

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Mr. Mardia is a professional engineer with 27 years of experience designing and providing construction phase services for multiple USACE districts. Throughout his career, Mr. Mardia has successfully executed numerous task orders related to flood risk reduction and drainage projects. His design expertise spans earthen levee and floodwall evaluation, inspection and design, drainage pump station evaluation and design, and preparation of engineering reports related to environmental infrastructure projects, drainage evaluation projects and the evaluation of existing facilities and infrastructure. Mr. Mardia has extensive experience providing inspection of levees, floodwalls, pump stations and hydraulic gates.

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State) Harahan Drainage Pump to the River – Harahan, LA	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Our team provided final design services for this USACE MVN flood risk management project. Project elements included a 700 ft. suction canal, a 1,200 cfs pumping station, three 9,000 ft. long 84-inch diameter discharge pipes to the Mississippi River levee. Mr. Mardia was the Program Manager for our team's efforts on this task order. He was responsible for delivering the design phase services and managing the construction period ensuring that all team members were responding to RFI's and requests for change orders in a timely manner, while monitoring the overall construction schedule and resources. Cost: \$135M Fee: \$879K Role: Program Manager	<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	(1) TITLE AND LOCATION (City and State) Texas City I-Wall to T-Wall Conversion Design - Texas City, TX	(2) YEAR COMPLETED	
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Development of a design-bid-build package (plans and specs) for approximately a mile of failed Federal floodwall conversion from an I-Wall to a T-wall on an active chemical refinery. Services rendered consist of Architectural, Civil and Geotechnical Engineering, Cost Estimating, BCOES review and Construction Phase Services and Engineering During Construction as the Program Manager for this task order, Mr. Mardia was responsible for ensuring the design was completed per the task order requirements, and is currently responsible for ensuring the team is responding to contractor RFI's, data requests and plan clarifications in a timely manner to allow construction progress to proceed. Cost: \$15M Fee: \$1.8M Role: Program Manager	<input checked="" type="checkbox"/> Check if project performed with current firm	
c.	(1) TITLE AND LOCATION (City and State) Ascension Parish Environmental Infrastructure Sewer Treatment Plant Design, Hillaryville, LA	(2) YEAR COMPLETED	
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Development of a design-bid-build package (plans and specs) for the creation of a 1.8 million gallon per day wastewater treatment plant as part of the Federal Section 219 Environmental Infrastructure program. Services consisted of detailed civil/structural/mechanical/electrical/architectural/geotechnical analyses, cost estimating, value engineering, and full USACE review process including BCOES review. Mr. Mardia as the Program Manager for the task order was responsible for ensuring the design team could package the full project in two construction packages and has managed the construction phase of the first construction package, establishing the construction schedule, ensuring submittals are reviewed and approved on time, and managing field testing and approval processes. Cost: \$21.5M Fee: \$1.5M Role: Program Manager	<input checked="" type="checkbox"/> Check if project performed with current firm	
d.	(1) TITLE AND LOCATION (City and State) Section 219 Environmental Infrastructure, Sewer Lift Station and Force main at the East Baton Rouge Landfill – Baton Rouge, LA	(2) YEAR COMPLETED	
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Through the Section 219 Environmental Infrastructure Program and USACE MVN, our team completed expedited design for 3,200 linear feet of 48" ductile iron force main and a new effluent pump station at the Baton Rouge, LA landfill. Due to an emergency, plans and specs, cost estimates and the DDR were developed and approved within 6 months. Mr. Mardia was the Program Manager for the task order. He was responsible for managing the design phase and construction phase services. During construction he was responsible for ensuring compliance with the permitting requirements, and ensuring the team reviewed and approved submittals in a timely manner to maintain the expedited construction schedule. Cost: \$3.2M Fee: \$366K Role: Program Manager	<input checked="" type="checkbox"/> Check if project performed with current firm	



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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Bonnie O'Brien, SPHR	13. ROLE IN THIS CONTRACT Human Resources (HR)/Staffing Professional	14. YEARS EXPERIENCE a. TOTAL 38 b. WITH CURRENT FIRM 36	
15. FIRM NAME AND LOCATION (<i>City and State</i>) MHZ JV Dallas, Texas			
16. EDUCATION (<i>Degree and Specializing</i>) BA/English & Sociology, Boston University, 1978		17. CURRENT PROFESSIONAL REGISTRATION (<i>State and Discipline</i>) SPHR, Senior Professional in Human Resources	
18. OTHER PROFESSIONAL QUALIFICATIONS (<i>Publications, Organizations, Training, Awards, etc.</i>) O'Brien has more than 35 years of experience in hiring and staffing engineering and construction projects. She manages Huitt-Zollars' nationwide staffing services including recruiting, screening, hiring, salary offers and negotiations, training, employee relations, and interfacing with candidates and hiring managers. O'Brien is the officer responsible for the firm's Affirmative Action Program, including the development, dissemination, and enforcement of all plans in all offices. She assists in providing and retaining qualified professionals by maintaining a large pool of readily available, experienced personnel, and identifying qualified candidates from both internal and external sources. Her ability to staff a project with qualified local personnel is demonstrated in her role as the Hiring Manager for the Fort Bliss Expansion Program where she has worked closely with the Huitt-Zollars Program Manager to identify and recruit more than 30 personnel within 30 days of NTP to meet project needs.			
19. RELEVANT PROJECTS			
(1) TITLE AND LOCATION (<i>City and State</i>) Fort Bliss Hospital Construction Phase Service - El Paso, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2020 CONSTRUCTION (If applicable) 2021	
a.	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Scope: Broad range of engineering and construction activities including technical assistance to the Hospital Office, construction administration support, quality assurance inspection and daily reporting in RMS, review of contract documents and shop drawings, review of contractors schedules and QC plans. Investigation and reporting of construction contractors claims. Oversaw critical staffing to meet T.O. spikes in construction and performance of all key personnel including monthly risk assessments. Coordinated with HZ Human Resources staff for developing a dedicated team just for Fort Bliss Hospital hiring. Cost: \$996M Fee: \$17.8M Role: Human Resources		
b.	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Scope: CPS for infrastructure and facilities. East Area Office included Youth Gym Renovation; Building Renovations; Volar Barracks; HVAC Upgrades and Classroom Expansion. Central Texas Area Office included Volar Barracks; 1st CAV HQ; and JOC Program. Fort Bliss Hospital Office included Replacement Hospital. South Texas Area Office included Lackland Ambulatory Care Center; JBSA Fire Station; Reid Clinic Replacement. Southwest Area Office included Air Traffic Control Tower; SRM Program; JOC contract. Cost: \$1B Fee: \$2.5M Role: Human Resources		
c.	(1) TITLE AND LOCATION (<i>City and State</i>) Quality Assurance (QA) Support and Construction Project Scheduling Support for Task Force Barrier - El Paso, TX/Yuma, AZ		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2021 CONSTRUCTION (If applicable) 2021
c.	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Scope: Providing Quality Assurance Representatives (QAR's) at every discipline level on multi-shift oversight in the El Paso/Yuma Regions reporting to the Border Barrier PMO and its designated Resident Engineers (RE's) Work includes construction inspection, safety monitoring, RMS reporting, compliance to EM 385-1-1 and OSHA requirements (especially focused on barrier bracing and foundation curing). Review contractor pay requests and submittals as required/requested by RE's on a site-by-site basis for 125 miles of barrier. Cost: \$668M Fee: \$11.5M Role: Human Resources		
d.	(1) TITLE AND LOCATION (<i>City and State</i>) Fort Bliss Expansion Program Construction Phase Service - El Paso, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2013 CONSTRUCTION (If applicable) 2013
d.	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Scope: CPS facility types included Combined Brigade and Battalion Headquarters, Company Operations Facilities, Tactical Vehicle Maintenance Facilities, Deployment Storage Buildings, Housing, Dining Facilities, Medical and Dental Clinics, AAFES Facilities, Training Facilities, a Physical Fitness Center and other Community Facilities. Performed professional services, master planning and project planning, and program and construction management. Assignments included program/project management; quality assurance; scheduling; project controls, and on-site oversite and surveillance. Cost: \$4.8B Fee: \$521K Role: Human Resources		
e.	(1) TITLE AND LOCATION (<i>City and State</i>) Electrical and Fire Protection Engineering, Central Texas Area Office, Fort Hood Hospital Office & Fort Worth District Office - TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2017 CONSTRUCTION (If applicable) 2017
e.	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Scope: This project represents a single task order (\$490K) for 18 months of construction phase services at for multiple military construction projects. Our team on site personnel include a Registered Electrical Engineer and a Registered Fire Protection Engineer supporting the new Carl R Darnall Army Medical Center (CRDAMC) which was built to replace the 45-year old hospital building on Fort Hood. The Design/Build Fort Hood Hospital Program includes a 6-story 947K SF hospital tower with 122 beds, three stand-alone out-patient specialty clinic buildings, a central utility plant, and three parking garages on 70 acres. Cost: \$1.1B Fee: \$461K Role: Human Resources		



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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Jim Wilson, PE, LEED AP	13. ROLE IN THIS CONTRACT Civil Engineer	14. YEARS EXPERIENCE a. TOTAL 33 b. WITH CURRENT FIRM 9	
15. FIRM NAME AND LOCATION (City and State) MHZ JV New Orleans, LA			
16. EDUCATION (Degree and Specializing) BS, Civil Engineering, Michigan Technological University, 1988	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer/Civil (1993): TX (128376), LA (35456), MI (38800), FL (85114) LEED Accredited Professional 2008		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Mr. Wilson is a Senior civil/drainage/levee engineer with 30+ years of civil engineering experience. He is the designer of record for all of the recent civil works design completed at the Fort Worth District, inclusive of multiple Dallas floodway projects. Mr. Wilson is fully versed in the USACE civil works and water resources design process and is intimately familiar with the use and application of the SWF AEIM. He also provides construction phase services inclusive of engineering services during construction. These services typically include shop drawing reviews as provided on the submittal register, site visits, construction status meeting, resolution of RFI's, factory testing observations, differing site condition assessment/resolution and review of supplemental designs as suggested by contractors.			
19. RELEVANT PROJECTS			
(1) TITLE AND LOCATION (City and State) Texas City I-Wall to T-Wall Conversion Design, Texas City, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2021 CONSTRUCTION (If applicable) 2022	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm a. Scope: Development of a design-bid-build package (plans and specs) for approximately a mile of failed Federal floodwall conversion from an I-Wall to a T-wall on an active chemical refinery. Services rendered consist of Architectural, Civil and Geotechnical Engineering, Cost Estimating, BCOES review and Construction Management and Engineering During Construction. Mr. Wilson is currently responsible for the construction phase services, inclusive of shop drawing reviews, response to RFI and design changes associated with differing site conditions due to adjacent project construction by the landowner. Cost: \$15M Fee: \$1.8M Role: Lead Civil Engineer			
(1) TITLE AND LOCATION (City and State) Section 219 Environmental Infrastructure, Sewer Lift Station and Forcemain at the East Baton Rouge Landfill – Baton Rouge, LA		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2019 CONSTRUCTION (If applicable) 2020	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm b. Scope: Through the Section 219 Environmental Infrastructure Program and USACE MVN, our team completed expedited design for 3,200 linear feet of 48" ductile iron forcemain and a new effluent pump station at the Baton Rouge, LA landfill. Due to an emergency, plans and specs, cost estimates and the DDR were developed and approved within 6 months. Mr. Wilson provided the site design during the design phase and provided construction phase services inclusive of shop drawing review, factory testing observation of contractor selected equipment and review of supplemental designs provided by the contractor. Cost: \$3.2M Fee: \$366K Role: Civil Engineer			
(1) TITLE AND LOCATION (City and State) Harahan Drainage Pump to the River – Harahan, LA		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2016 CONSTRUCTION (If applicable) 2018	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm c. Scope: Our team provided final design and construction phase services for this USACE MVN flood risk management project. Project elements included a 700 ft. suction canal, a 1,200 cfs pumping station, three 9,000 ft. long 84-inch diameter discharge pipes to the Mississippi River levee, the levee crossing design, and reinforced concrete discharge basin in the Mississippi River. Mr. Wilson provided engineering during construction, site visits and shop drawing review for project elements including the intake canal construction, relocation of all project utilities, site layout and grading, and the levee crossing discharge piping. Cost: \$135M Fee: \$879K Role: Civil Engineer			
(1) TITLE AND LOCATION (City and State) Replacement of Granger Lake Office Building, Granger TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2019 CONSTRUCTION (If applicable) 2022	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm d. Scope: Development of a design-bid-build package (plans and specs) for the creation of a new Lake office management building and demolition of the existing facilities. Design services included civil, structural, electrical and mechanical engineering, as well as architectural and landscape architectural design. Mr. Wilson has been providing construction phase services to the USACE area office, inclusive of response to RFI's, plan clarifications, permitting response and closure, and participation in construction status meetings. Cost: \$3.2M Fee: \$358K Role: Lead Civil Engineer			



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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Gilbert Aragon, PE	13. ROLE IN THIS CONTRACT Civil Engineer	14. YEARS EXPERIENCE a. TOTAL 22		b. WITH CURRENT FIRM 2
15. FIRM NAME AND LOCATION (City and State) MHZ JV El Paso, TX				
16. EDUCATION (Degree and Specializing) Bachelor of Science, Civil Engineering, University of Texas at El Paso, 1973		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer/Civil (1982): TX (#51921)		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) As a subject matter expert in site/civil infrastructure, Aragon provides contractors with guidance in preparations of Storm Water Pollution Prevention Plans and Environmental Protection Plans. He performs inspections to ensure contractors are in compliance, prepares reports on deficiencies and provides guidance for corrective action.				
19. RELEVANT PROJECTS				
(1) TITLE AND LOCATION (City and State) Fort Bliss Hospital Construction Phase Service - El Paso, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2020 CONSTRUCTION (If applicable) 2021		
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Broad range of engineering and construction activities including technical assistance to the Hospital Office, construction administration support, quality assurance inspection and daily reporting in RMS, review of contract documents and shop drawings, review of contractors schedules and QC plans. Investigation and reporting of construction contractors claims. Cost: \$996M Fee: \$17.8M Role: Civil Engineer		<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	(1) TITLE AND LOCATION (City and State) Quality Assurance (QA) Support and Construction Project Scheduling Support for Task Force Barrier - El Paso, TX/Yuma, AZ		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2021 CONSTRUCTION (If applicable) 2021	
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Provided Quality Assurance Representatives (QAR's) at every discipline level on multi-shift oversight in the El Paso/Yuma Region, reporting to the Border Barrier PMO and its designated Resident Engineers (RE's) Work includes construction inspection, safety monitoring, RMS reporting, compliance to EM 385-1-1 and OSHA requirements (especially focused on barrier bracing and foundation curing). Review contractor pay requests and submittals as required/requested by RE's on a site-by-site basis for 125 miles of barrier. Cost: \$668M Fee: \$11.5M Role: Civil Engineer		<input checked="" type="checkbox"/> Check if project performed with current firm	
c.	(1) TITLE AND LOCATION (City and State) Fort Bliss Expansion Program Construction Phase Service - El Paso, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2013 CONSTRUCTION (If applicable) 2013	
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: CPS facility types included Combined Brigade and Battalion Headquarters, Company Operations Facilities, Tactical Vehicle Maintenance Facilities, Deployment Storage Buildings, Housing, Dining Facilities, Medical and Dental Clinics, AAFES Facilities, Training Facilities, a Physical Fitness Center and other Community Facilities. Performed professional services, master planning and project planning, and program and construction management. Assignments included program/project management; quality assurance; scheduling; project controls, and on-site oversite and surveillance. Cost: \$4.8B Fee: \$521K Role: Civil Engineer		<input checked="" type="checkbox"/> Check if project performed with current firm	
d.	(1) TITLE AND LOCATION (City and State) Soldier Medical/Dental Clinics and Warriors in Transition Complex – Fort Bliss - El Paso, Texas		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2014 CONSTRUCTION (If applicable) 2014	
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Projects included the new construction of a \$16.5M Health and Dental Clinic, \$42.6M Consolidated Family/Troop Medical Clinic, \$12.5M Medical Parking Garage and a \$41M Warriors in Transition Complex. Responsible for oversight of contract construction of various facilities within the area of responsibility of the Resident Office. This includes responsibility of contract administration and supervision and inspection of contract construction operations and associated liaison and coordination with HFPA & MECOM and contractors. Cost: \$112.6M Role: Civil Engineer		<input checked="" type="checkbox"/> Check if project performed with current firm	
e.	(1) TITLE AND LOCATION (City and State) Community and Morale Welfare and Recreation (MWR) Projects - Fort Bliss, El Paso, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2013 CONSTRUCTION (If applicable) 2013	
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Program includes primarily infill projects including Commissary, Division Headquarters, Brigade Staging Area, Child Development Centers and Physical Fitness Facilities along with ARRA projects and SRM projects. Construction management, surveillance, and oversight supporting USACE's Resident Office. Assisted in coordination of all utility connections for these major infill projects. Cost: \$416M Role: Civil Engineer		<input checked="" type="checkbox"/> Check if project performed with current firm	



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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Bob Sims, RA, CQM	13. ROLE IN THIS CONTRACT Architect	14. YEARS EXPERIENCE a. TOTAL 46 b. WITH CURRENT FIRM 6	
15. FIRM NAME AND LOCATION (City and State) MHZ JV Fort Worth, TX			
16. EDUCATION (Degree and Specializing) Bachelor of Architecture, Texas Tech University, 1976		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Registered Architect (1996): TX (15643) USACE CQM Certified	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Mr. Sims has managed architectural projects from cradle to grave including assignments in design and construction phase services for major federal programs, healthcare, K-12, higher education, research, and criminal justice for programs ranging from \$350M to over \$8B. He has served as program integrator as well as on-site construction phase architect.			
19. RELEVANT PROJECTS			
(1) TITLE AND LOCATION (City and State) Fort Bliss Hospital Construction Phase Services - El Paso, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2020 CONSTRUCTION (If applicable) 2021	
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Broad range of engineering and construction activities including technical assistance to the Hospital Office, construction administration support, quality assurance inspection and daily reporting in RMS, review of contract documents and shop drawings, review of contractors schedules and QC plans. Investigation and reporting of construction contractors claims. Cost: \$996M Fee: \$17.8M Role: Architect		
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: CPS for infrastructure and facilities. East Area Office included Youth Gym Renovation; Building Renovations; Volar Barracks; HVAC Upgrades and Classroom Expansion. Central Texas Area Office included Volar Barracks; 1st CAV HQ; and JOC Program. Fort Bliss Hospital Office included Replacement Hospital. South Texas Area Office included Lackland Ambulatory Care Center; JBSA Fire Station; Reid Clinic Replacement. Southwest Area Office included Air Traffic Control Tower; SRM Program; JOC contract. Cost: \$1B Fee: \$2.5M Role: Architect		
c.	(1) TITLE AND LOCATION (City and State) Quality Assurance (QA) Support and Construction Project Scheduling Support for Task Force Barrier - El Paso, TX/Yuma, AZ		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2021 CONSTRUCTION (If applicable) 2021
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Provided Quality Assurance Representatives (QAR's) at every discipline level on multi-shift oversight in the El Paso/Yuma Region, reporting to the Border Barrier PMO and its designated Resident Engineers (RE's). Work includes construction inspection, safety monitoring, RMS reporting, compliance to EM 385-1-1 and OSHA requirements (especially focused on barrier bracing and foundation curing). Review contractor pay requests and submittals as required/requested by RE's on a site-by-site basis for 60 miles of barrier. Cost: \$668M Fee: \$11.5M Role: Architect		
e.	(1) TITLE AND LOCATION (City and State) Fort Bliss Expansion Program Construction Phase Service - El Paso, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2013 CONSTRUCTION (If applicable) 2013
f.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: CPS facility types included Combined Brigade and Battalion Headquarters, Company Operations Facilities, Tactical Vehicle Maintenance Facilities, Deployment Storage Buildings, Housing, Dining Facilities, Medical and Dental Clinics, AAFES Facilities, Training Facilities, a Physical Fitness Center and other Community Facilities. Performed professional services, master planning and project planning, and program and construction management. Assignments included program/project management; quality assurance; scheduling; project controls, and on-site oversite and surveillance. Cost: \$4.8B Fee: \$521K Role: Architect		
g.	(1) TITLE AND LOCATION (City and State) Construction Quality Assurance Assistance, Southwest Area Office (SWAO) Sites Multiple Locations, TX and NM		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2017 CONSTRUCTION (If applicable) 2017
h.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Our team provided construction quality assurance assistance for the Southwest Area Office (SWAO) at Fort Bliss and White Sands Missile Range. The team provided two personnel on a one-year contract period. The period of performance includes two option periods for the construction quality assurance representatives (QARs). One QAR is located at Fort Bliss and the other is at the WSMR field office. Cost: \$659K Role: Architect		



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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Lorena Holguin, AIA, LEED AP, NCARB	13. ROLE IN THIS CONTRACT Architect	14. YEARS EXPERIENCE a. TOTAL 16		b. WITH CURRENT FIRM 4
15. FIRM NAME AND LOCATION (City and State) MHZ JV El Paso, TX				
16. EDUCATION (Degree and Specializing) Master of Architecture, University of Houston, 2008 Bachelor of Environmental Design, Texas A&M University, 2003		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Registered Architect (2018): TX (#26935) National Council of Architectural Registration Boards:		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Lorena has 16 years of experience in all phases of architectural services on a variety of project types in both the public and private sector. She has extensive experience in contract administration. Lorena, has worked directly with the client and the contractor providing on-site Architectural Quality Assurance, building envelope testing and commissioning, as well as other construction administration duties. She provides technical knowledge, reviews site conditions and investigates pertinent documentation to solve unforeseen issues; proposing solutions that best meet a project and owner's needs.				
19. RELEVANT PROJECTS				
a.	(1) TITLE AND LOCATION (City and State) Fort Bliss Hospital Construction Phase Services - El Paso, TX	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2020		
	CONSTRUCTION (If applicable) 2021			
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Broad range of engineering and construction activities including technical assistance to the Hospital Office, construction administration support, quality assurance inspection and daily reporting in RMS, review of contract documents and shop drawings, review of contractors schedules and QC plans. Investigation and reporting of construction contractors claims. Cost: \$996M Fee: \$17.8M Role: Architect	<input checked="" type="checkbox"/> Check if project performed with current firm		
c.	(1) TITLE AND LOCATION (City and State) Repair Medical Warehouse, Building 11156 – Fort Bliss, TX	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2019		
	CONSTRUCTION (If applicable) 2021			
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: The project was a design-build with J&J Worldwide that renovated Building 11156, WBAMC Medical Warehouse at Ft. Bliss. The warehouse is a 55,900 GSF two story large warehouse with a two (2) story administrative / support area in the middle of the warehouse that was originally constructed in 1999. The first level administrative/support area, located between the two large open warehouse areas supporting equipment management branch and supply chain management branch, consists of approximately 8,200 sf and the second level support area consists of approximately 4,400 sf. The entire building is currently being renovated including the relocation and redesign of warehouse area to achieve efficiency. Planning has been carefully developed to address staff flow and operations. Cost: \$7.5M Fee: \$519K Role: Architect	<input checked="" type="checkbox"/> Check if project performed with current firm		
e.	(1) TITLE AND LOCATION (City and State) El Paso ISD Bond Program Management Services - El Paso, TX	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2021		
	CONSTRUCTION (If applicable) 2021			
f.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Program Management for the design and construction of 16 elementary, middle and high school new buildings and renovation projects. The El Paso Independent School District (EPISD) commissioned Huitt-Zollars in August 2017 to provide design services for a new school administration complex to be located in the downtown area. The site for the new complex consists of an existing eight-story 80,000 square-foot office building and two-story-parking garage at 1100 N. Stanton. The site for the new complex also includes the adjacent 1.5-acre vacant lot to the south at 1014 N. Stanton. A new three-story 40,000 square-foot office building with surface parking is planned for this site. The existing administration complex located on Boeing Drive will be demolished after the new complex is constructed. Cost: \$25M Fee: \$2M Role: Architect	<input checked="" type="checkbox"/> Check if project performed with current firm		
g.	(1) TITLE AND LOCATION (City and State) Repair Chilled Water and Building Envelope Systems – Womack Army Medical Center – Fort Bragg, NC	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2020		
	CONSTRUCTION (If applicable) 2020			
h.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: The project includes the repair of the chilled water systems, portions of the Emergency Power Supply Systems, and building envelope issues at the Womack Army Medical Center Ft. Bragg, NC. A total of (4) chillers, cooling towers and all associated components will be demolished and replaced to provide a fully functioning chilled water system with associated electrical system modifications. Cost: \$18M Fee: \$707K Role: Architect	<input checked="" type="checkbox"/> Check if project performed with current firm		
i.	(1) TITLE AND LOCATION (City and State) University Medical Center El Paso Pharmacy Upgrades - El Paso, TX	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2019		
	CONSTRUCTION (If applicable) 2019			
j.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Designed renovation of approximate 500 sf of the Pharmacy Department to add a hazardous buffer room, ante room, and storage room to make the existing Pharmacy compatible with the current USP 796 & 800 Guidelines. The renovation included the addition of a dedicated AHU, HEPA filtration and exhaust fans to meet the USP cleanroom requirements. Also included finish and equipment upgrades. Cost: \$450K Fee: \$101K Role: Architect	<input checked="" type="checkbox"/> Check if project performed with current firm		



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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Harry Hawney, PE	13. ROLE IN THIS CONTRACT Electrical Engineer	14. YEARS EXPERIENCE a. TOTAL 44 b. WITH CURRENT FIRM 11	
15. FIRM NAME AND LOCATION (City and State) MHZ JV Houston, TX			
16. EDUCATION (Degree and Specializing) B. Eng., Electronics Engineering, National University of Ireland, 1970 MBA, Trinity College, 1971	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer: (1981): LA (19229)		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Mr. Hawney's has over 40 years of power and electrical engineering experience which includes site lighting, drainage pump stations, roadways, airports, power plants, water treatment and wastewater treatment facilities, and electrical and generator layouts for new facilities. He is proficient and experienced in designing airfield lighting as well as the relocation of high voltage powerlines, transfer poles and SCADA systems. Mr. Hawney has extensive experience providing construction phase services for electrical systems, inclusive of monitoring system testing, providing modification design and linking new systems with existing monitoring programs/systems.			
19. RELEVANT PROJECTS			
(1) TITLE AND LOCATION (City and State) East Baton Rouge Parish Environmental Infrastructure North Wastewater Treatment Plant Collection System 5 MG Ground Storage Tank and Pump Station, Baton Rouge, LA		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2022 CONSTRUCTION (If applicable) 2024	
a. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Development of a design-build package (plans and specs) to provide wastewater storage through the Federal Section 219 EI program. Design includes two pile supported above ground 5 million gallon pre-stressed concrete storage tanks, a 14.00 gpm sewer pump station, new control building and generators for emergency power. Mr. Hawney provided shop drawing and instrumentation testing review of the first phase of construction. He worked with the contractor to solve some loading issues the station was having, and to coordinate the offsite monitoring software. Cost: \$17M Fee: \$1.2M Role: Electrical Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm		
(1) TITLE AND LOCATION (City and State) New Orleans International Airport Drainage Pump Station Design and Construction Phase Services, New Orleans, LA		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2017 CONSTRUCTION (If applicable) 2019	
b. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Development of a design-build package (plans and specs) for the development of a 600 cfs drainage pump station at the New Orleans International Airport. Services included multi-disciplinary design services in addition to daily inspection, construction phase services and engineering during construction. Mr. Hawney was the lead electrical engineer for the project, he was also responsible for providing the electrical engineering during construction and construction phase services, which consisted of extensive shop drawing reviews, extensive instrumentation testing and modification, coordination with the existing SCADA system and approval of contractor substitutions for building and site lighting. Cost: \$15M Fee: \$1.8M Role: Electrical Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm		
(1) TITLE AND LOCATION (City and State) Section 219 Environmental Infrastructure, Sewer Lift Station and Force main at the East Baton Rouge Landfill – Baton Rouge, LA		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2019 CONSTRUCTION (If applicable) 2020	
c. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Through the Section 219 Environmental Infrastructure Program and USACE MVN, our team completed expedited design for 3,200 linear feet of 48" ductile iron force main and a new effluent pump station at the Baton Rouge landfill. Due to an emergency, plans and specs, cost estimates and the DDR were developed and approved within 6 months. In addition to providing the design, Mr. Hawney was responsible for providing engineering during construction and construction phase services to the project. He participated in construction status meetings, responded to contractor RFI's, and reviewed and approved contractor proposed lighting substitutions. Cost: \$3.2M Cost: \$3.2M Fee: \$366K Role: Electrical Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm		
(1) TITLE AND LOCATION (City and State) Harahan Drainage Pump to the River – Harahan, LA		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2016 CONSTRUCTION (If applicable) 2018	
d. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Our team provided final design services for this USACE MVN flood risk management project. Project elements included a 700 ft. suction canal, a 1,200 cfs pumping station, three 9,000 ft. long 84-inch diameter discharge pipes to the Mississippi River levee. Mr. Hawney provided engineering during construction, site visits and shop drawing review for project elements including electrical controls, electrical power design set-up for the safe house, and site lighting, the emergency back-up generator, the generator connections, the SCADA system, and relocation of all utility connections on the site. Cost: \$135M Fee: \$879K Role: Electrical Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm		



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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Scott Parma, PE, LEED AP		13. ROLE IN THIS CONTRACT Electrical Engineer		14. YEARS EXPERIENCE a. TOTAL 39 b. WITH CURRENT FIRM 16	
15. FIRM NAME AND LOCATION (City and State) MHZ JV Fort Worth, TX					
16. EDUCATION (Degree and Specializing) Bachelor of Science, Electrical Engineering, Texas A&M University, 1981			17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer/Electrical (1993): TX (#75690) LEED Accredited Professional		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Scott Parma's engineering experience includes power distribution, electrical systems analysis, system planning, and electrical system design, backup emergency generator power, and alternative energy systems. He has completed a wide variety of projects in the utility, transportation, and vertical construction markets for both private and federal clients. He has expertise in medium and low voltage power systems design and analysis. He also has experience in lighting, telecommunications, and fire alarm system design.					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State) Fort Bliss Hospital Construction Phase Services - El Paso, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2020 CONSTRUCTION (If applicable) 2021		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Broad range of engineering and construction activities including technical assistance to the Hospital Office, construction administration support, quality assurance inspection and daily reporting in RMS, review of contract documents and shop drawings, review of contractors schedules and QC plans. Investigation and reporting of construction contractors claims. Cost: \$996M Fee: \$17.8M Role: Electrical Engineer		<input checked="" type="checkbox"/> Check if project performed with current firm		
b.	(1) TITLE AND LOCATION (City and State) Fort Bliss Expansion Program Construction Phase Service - El Paso, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2013 CONSTRUCTION (If applicable) 2013		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: CPS facility types included Combined Brigade and Battalion Headquarters, Company Operations Facilities, Tactical Vehicle Maintenance Facilities, Deployment Storage Buildings, Housing, Dining Facilities, Medical and Dental Clinics, AAFES Facilities, Training Facilities, a Physical Fitness Center and other Community Facilities. Performed professional services, master planning and project planning, and program and construction management. Assignments included program/project management; quality assurance; scheduling; project controls, and on-site oversite and surveillance. Cost: \$4.8B Fee: \$521K Role: Electrical Engineer		<input checked="" type="checkbox"/> Check if project performed with current firm		
c.	(1) TITLE AND LOCATION (City and State) Pavement Replacement at Los Tomates LPOE - Brownsville, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2012 CONSTRUCTION (If applicable) 2012		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Our team assisted GSA in the preparation of a design-build RFP and development of a plan for repair of existing border infrastructure and provided on-site field observation services during construction. Mr. Parma served as Electrical Engineer for underground electrical services and outdoor lighting during design phase and then provided construction phase inspection. The project included replacement of 535K square feet of pavement and was updated to meet the current needs for commercial truck traffic. A design charrette, concept alternative analysis and design-build bridging documents and RFP were prepared paying specific attention to local conditions such as the hot, dry, desert environment since much of the pavement placement would occur at night as not to disrupt existing operations. Special consideration of the local conditions due to the soils conditions and subsurface prep for the new pavement were incorporated including lime stabilization, compaction and crushed aggregate. Fee: \$587K Role: Electrical Engineer		<input checked="" type="checkbox"/> Check if project performed with current firm		
d.	(1) TITLE AND LOCATION (City and State) Maneuver Systems Sustainment Center, Phase 3, Main Building – Red River Army Depot, Texarkana, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2013 CONSTRUCTION (If applicable) 2016		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: The Maneuver Systems Sustainment Center (MSSC) is a new facility that achieves consolidation of multiple functions into a single facility. The functions served by the facility include disassembly, rebuild, metal finishing, body repair, painting and preparation of present and future tactical vehicles, including their major components and control systems. The MSSC is one of only three such army depots in the nation. Cost: \$39M Fee: \$1.1M Role: Electrical Engineer		<input checked="" type="checkbox"/> Check if project performed with current firm		
e.	(1) TITLE AND LOCATION (City and State) CCAD Hangar 8 Renovation DB RFP – Corpus Christi Army Depot, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2018 CONSTRUCTION (If applicable) 2021		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Hangar 8 serves as part of the rotary wing rebuild activities at CCAD. Our team prepared a design-build RFP for the renovation and repair to one of the major maintenance bays of the 1.2M square foot facility. This complex project includes a major overhaul of the systems and facility layout of approximately 70K square feet. The project includes upgrades to comply applicable codes, UFCs and standards for all electrical, structural, fire suppression, HVAC, concrete floor repairs. Services included a charrette to gather the user's specific requirements, validate the 1391 and prepare a ENG Form 3086. The team then prepared a design-build RFP, performed a structural evaluation and participated in the value engineering study with an independent design team. Cost: \$20M Fee: \$1.9M Role: Electrical Engineer		<input checked="" type="checkbox"/> Check if project performed with current firm		



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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Carlos Argujo, PE, LEED AP BD+C, CxA, CQM		13. ROLE IN THIS CONTRACT Mechanical Engineer		14. YEARS EXPERIENCE a. TOTAL 20 b. WITH CURRENT FIRM 5	
15. FIRM NAME AND LOCATION (City and State) MHZ JV El Paso, TX					
16. EDUCATION (Degree and Specializing) Masters of Business Administration, University of Texas at El Paso, 2006 Bachelor of Science, Mechanical Engineering, Texas A&M University, 2000		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer/Mechanical (2005): TX (# 95575), NM (#22448) LEED Accredited Professional BD+C; Certified Commissioning Authority (CxA) Certification USACE CQM Certified			
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Carlos is an experienced mechanical engineer with whole building commissioning, construction administration, and MEP design background. He is considered an expert on energy modeling, sustainable design, BIM, and big picture planning. His professional experience includes projects involving all types of facilities. He is familiar with all aspects of these projects including the building, equipment installation and coordination, and site designs. He has extensive knowledge of healthcare facilities and MEP systems, including HVAC, central plants, BAS/DDC systems, commissioning and plumbing.					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State) Fort Bliss Hospital Construction Phase Services - El Paso, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2020 CONSTRUCTION (If applicable) 2021		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Broad range of engineering and construction activities including technical assistance to the Hospital Office, construction administration support, quality assurance inspection and daily reporting in RMS, review of contract documents and shop drawings, review of contractors schedules and QC plans. Investigation and reporting of construction contractors claims. Cost: \$996M Fee: \$17.8M Role: Mechanical Engineer		<input checked="" type="checkbox"/> Check if project performed with current firm		
b.	(1) TITLE AND LOCATION (City and State) University of Texas NASA Space Geodesy Satellite Laser Facility - Ft. Davis, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2020 CONSTRUCTION (If applicable) 2020		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Commissioning Authority for the mechanical and control systems for the new laser at the McDonald Geophysical Observatory. The laser, which uses short pulse lasers to measure time of flight from the ground to orbiting targets, was housed in a concrete shelter, conditioned with a lead / standby heat pump air conditioning system that also included a redundant electrical heating system. Cost: \$7M Role: Mechanical Engineer/Commissioning Specialist		<input checked="" type="checkbox"/> Check if project performed with current firm		
c.	(1) TITLE AND LOCATION (City and State) City of El Paso City of El Paso Public Health Laboratory COVID-19 Testing and Response Facility - El Paso, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2021 CONSTRUCTION (If applicable) 2020		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Commissioning Authority for the 31,460 SF BSL2 and BSL3 laboratory, chilled water and hot water plant. Equipment included indoor modular air handling units, air-cooled chillers, exhaust fans, air valves, as well as the generator, transformer and ATS. Commissioning activities also include interior and exterior lighting controls, lift station for mobile lab unit, and DHW Heaters. Cost: \$8M Role: Mechanical Engineer/Commissioning Specialist		<input checked="" type="checkbox"/> Check if project performed with current firm		
d.	(1) TITLE AND LOCATION (City and State) University Medical Center Master Plan Implementation Project - El Paso, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2014 CONSTRUCTION (If applicable) 2014		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: The project replaced the building automation systems for the 106,182 SF facility. Equipment controlled consisted of a 5,600 ton chiller plant, 2,000 BHP boiler plant, AHUs, VAV boxes, clean steam heat exchangers, primary/secondary/tertiary pumping systems, and operating room air valves. Designed and commissioned BAS, DDC system and smoke evacuation control system, integrated system with LonTalk and BACnet. Cost: N/A Role: Mechanical Engineer		<input checked="" type="checkbox"/> Check if project performed with current firm		
e.	(1) TITLE AND LOCATION (City and State) Texas Tech University Health Science Center - El Paso, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2014 CONSTRUCTION (If applicable) 2014		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Commissioning Authority for the renovation of mechanical systems at the Regional Academic Health Center. Oversaw mechanical and electrical contractors on this five-phase, multimillion-dollar construction project allowing multistory building to remain occupied throughout construction. Performed pay application reviews, pre-functional and functional tests, start-up procedures for mechanical equipment including chilled and hot water pumps. Commissioned 600 Amp, 480V Motor Control Center, a 1600 Amp, 277/480V Switchboard, 25HP to 50 HP Variable Frequency Drives, conductors, cables and cable trays. HVAC instrumentation and controls also commissioned under this project. Cost: \$8M Role: Commissioning Specialist		<input checked="" type="checkbox"/> Check if project performed with current firm		



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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Phillip Guajardo, PE, CxA	13. ROLE IN THIS CONTRACT Mechanical Engineer	14. YEARS EXPERIENCE a. TOTAL 17 b. WITH CURRENT FIRM 6	
15. FIRM NAME AND LOCATION (City and State) Building Tech Team, LLC. San Antonio, Texas			
16. EDUCATION (Degree and Specializing) Bachelor of Science, Mechanical Engineering, The University of Texas at Austin, 2005		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer/Mechanical (2014): TX (#116878)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Phillip has more than 17 years of professional experience, and for more than 8 years has been practicing exclusively as an MEP Designer, Commissioning Authority/Agent and Mechanical, Electrical, Plumbing Systems QA Inspector. Phillip has extensive technical and project management experience in Medical Facilities, DoD Facilities, Military Dormitories, TSA Facilities and Kennels, Historical Renovations, Commercial Kitchens, Dental Facilities, MedGas Systems, Central Plants, Electrical Distribution Systems, Emergency Power Generation Systems, Vehicle Maintenance Facilities, and Gyms. Phillip has technical knowledge as well as field experience. This valuable combination allows Phillip to interpret very complex MEP Designs and provide oversight during design and construction phases to identify deficiencies and/or issues early avoid costly corrections later in the project.			
19. RELEVANT PROJECTS			
(1) TITLE AND LOCATION (City and State) Airmen Training Complex(ATC 5, 6, 7, 8) – San Antonio, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2019 CONSTRUCTION (If applicable) 2021	
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Provided Construction Phase Services (Mechanical Engineer / QA). Conducted 30, 60, 90% design reviews. Entered comments into DR. Checks, followed up on responses. Provided submittal review of major Mechanical and Plumbing systems including chillers, boilers, chilled & hot water piping, building automation system controls. Ensured products meet specification and design requirements. Conducted underground inspections for mechanical and plumbing distribution rough in. Cost: \$700M Fee: \$350K Role: Mechanical Engineer / QA <input checked="" type="checkbox"/> Check if project performed with current firm		
b.	(1) TITLE AND LOCATION (City and State) Lackland Ambulatory Care Center – JBSA Lackland - San Antonio, TX (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Provided Construction Phase Services (Mechanical Engineer / QA). Reviewed Mechanical and Plumbing Submittals. Conducted QA Inspections including in wall inspections, above ceiling inspections, duct leakage testing, pressure testing, vent smoke tests. Assisted USACE with leading all commissioning activities. Conducted Pre-Functional checklists of all MEP systems and conducted functional performance testing. Lead Emergency Generator and Emergency Distribution Commissioning. System included 22 Automatic Transfer Switches, 3ea 800 KW Generators, and paralleling switchgear with load shedding. Cost: \$700M Fee: \$350K Role: Mechanical Engineer / QA <input checked="" type="checkbox"/> Check if project performed with current firm		
c.	(1) TITLE AND LOCATION (City and State) Reid Clinic - JBSA Lackland - San Antonio, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2019 CONSTRUCTION (If applicable) 2020
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Provided Construction Phase Services (Mechanical Engineer / QA). Reviewed Mechanical and Plumbing Submittals. Conducted QA Inspections including in wall inspections, above ceiling inspections, duct leakage testing, pressure testing, vent smoke tests. Conducted point to point verification with controls contractor. Cost: xx Role: Mechanical Engineer / QA <input checked="" type="checkbox"/> Check if project performed with current firm		
e.	(1) TITLE AND LOCATION (City and State) CPS (Engineering, Technical & Quality Assurance) South Texas Area Office– TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2016 CONSTRUCTION (If applicable) 2021
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Provided CPS services for a broad range of facilities located at Camp Bullis, JBSA Ft. Sam Houston, JBSA Lackland, Medina Base, and Corpus Christi Army Depot. Facility types included Hangars, Company Operations Facilities, Tactical Vehicle Maintenance Facilities, Housing, Dining Facilities, Medical and Dental Clinics, Training Facilities, Dorms, TSA Facilities and Kennels, Physical Fitness Center and other Community Facilities. Performed design reviews, field inspections, reviewed submittals, and performed building commissioning. Fee: \$350K Role: Mechanical Engineer / QA <input checked="" type="checkbox"/> Check if project performed with current firm		
e.	(1) TITLE AND LOCATION (City and State) METC Dorms – Ft. Sam Houston, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2019 CONSTRUCTION (If applicable) 2020
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Providing investigation of failures of domestic hot water pipe several years after construction. Our team found that domestic hot water pipe that was installed was CPVC but did not have any expansion loops installed. As pipes would heat up they would expand and branches taped off of the main broke and flooded dorm rooms. Conducted several inspections. Reviewed designers recommendations for correction and oversaw installation in field. Conducted testing of new repairs to determine performance of expansion and contraction of pipe. Cost:\$1M Fee:\$50K Role: Mechanical Engineer <input checked="" type="checkbox"/> Check if project performed with current firm		



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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Bob Yokum, PE	13. ROLE IN THIS CONTRACT Structural Engineer	14. YEARS EXPERIENCE a. TOTAL 41 b. WITH CURRENT FIRM 10	
15. FIRM NAME AND LOCATION (City and State) MHZ JV New Orleans, LA			
16. EDUCATION (Degree and Specializing) MS, Civil Engineering, Tulane University, 1980 BS, Civil Engineering, University of New Orleans, 1975	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer/Structural (1984): LA (#21422)		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Mr. Yokum, a former USACE New Orleans District Structural Engineer, has over 40 years of experience providing structural design for Federal projects. Mr. Yokum specializes in designing flood risk reduction measures and has designed levees, flood walls, locks, gates and drainage structures for his entire career. Mr. Yokum developed the unbalanced load criteria used by USACE for all levee design projects. This criteria sets the guiding design calculations for designing heavy structural projects that have water on one side of a project feature and land on the other. He routinely provides construction phase services inclusive of the observation and adjustment of test pile programs, vibration monitoring and shop drawing approval.			
19. RELEVANT PROJECTS			
(1) TITLE AND LOCATION (City and State) East Baton Rouge Parish Environmental Infrastructure North Wastewater Treatment Plant Collection System 5 MG Ground Storage Tank and Pump Station, Baton Rouge, LA		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2022 CONSTRUCTION (If applicable) 2024	
a. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Development of a design-bid-build package (plans and specs) to provide wastewater storage through the Federal Section 219 EI program. Design includes two pile supported above ground 5 million gallon pre-stressed concrete storage tanks, a 14,000 gpm sewer pump station, new control building and generators for emergency power. For the first phase of construction that was recently completed, Mr. Yokum provided shop drawing review of the piling system used by the contractor, as well as the first prefabricated building that was placed on the piling. He also observed and approved the test pile program implemented by the contractor. Cost: \$17M Fee: \$1.2M Role: Structural Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm		
(1) TITLE AND LOCATION (City and State) Section 219 Environmental Infrastructure, Sewer Lift Station and Force main at the East Baton Rouge Landfill – Baton Rouge, LA		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2019 CONSTRUCTION (If applicable) 2020	
b. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Through the Section 219 Environmental Infrastructure Program and USACE MVN, our team completed expedited design for 3,200 linear feet of 48" ductile iron force main and a new effluent pump station at the Baton Rouge, LA landfill. Due to an emergency, plans and specs, cost estimates and the DDR were developed and approved within 6 months. Mr. Yokum provided the observation of the test piles for the project and reviewed and approved the pile and coating recommended by the contractor. Cost: \$3.2M Fee: \$366K Role: Structural Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm		
(1) TITLE AND LOCATION (City and State) Harahan Drainage Pump to the River – Harahan, LA		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2016 CONSTRUCTION (If applicable) 2018	
c. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Our team provided final design and construction phase services for this USACE MVN flood risk management project. Project elements included a 700 ft. suction canal, a 1,200 cfs pumping station, three 9,000 ft. long 84-inch diameter discharge pipes to the Mississippi River levee, the levee crossing design, and reinforced concrete discharge basin in the Mississippi River. Mr. Wilson provided engineering during construction, site visits and shop drawing review for project elements including the structural piling, coating, pump house framework, and worked with the Geotechnical team to approve test piles and vibration monitoring proposed by the contractor. Cost: \$135M Fee: \$879K Role: Structural Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm		
(1) TITLE AND LOCATION (City and State) Texas City & Vicinity Hurricane Flood Protection Project, I-Wall to T-Wall Conversion – Texas City, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2021 CONSTRUCTION (If applicable) 2022	
d. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Development of a design-bid-build package (plans and specs) for approximately a mile of failed Federal floodwall conversion from an I-Wall to a T-wall on an active chemical refinery. Services rendered consist of Architectural, Civil and Geotechnical Engineering, Cost Estimating, BCOES review and will consist of Construction Management and Engineering During Construction. Mr. Yokum is the lead structural engineer for the project and is currently providing engineering during construction and construction phase services. This is inclusive of response to RFI's and changing site conditions design due to a recent hurricane and an adjacent construction project administered by the Refinery ownership. Cost: \$15M Fee: \$1.8M Role: Structural Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm		



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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME William Wallace, PE, NCEES, SECB	13. ROLE IN THIS CONTRACT Structural Engineer	a. TOTAL 42	b. WITH CURRENT FIRM 11	14. YEARS EXPERIENCE	
15. FIRM NAME AND LOCATION (City and State) MHZ JV Fort Worth, TX					
16. EDUCATION (Degree and Specializing) Master of Science, Civil Engineering (Structures), University of Texas at Arlington, 1982 Bachelor of Science, Civil Engineering, University of Texas at Arlington, 1978	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer/Structural (1986): TX (#59641), FL (#79230), NM (#22715), OK(#27606), WA (#52055) National Council of Examiners for Engineering and Surveying Structural Engineering Certification Board				
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Mr. Wallace has been involved in the construction of many highly complex structures for both the military and civil works construction programs of USACE. Projects have included: buildings in seismic zones, force protection analyses, dormitories, warehouses, maintenance facilities, religious education centers, border patrol stations, air traffic control towers, pallheliet storage facilities, and general office space.					
19. RELEVANT PROJECTS					
(1) TITLE AND LOCATION (City and State) Fort Bliss Hospital Construction Phase Services - El Paso, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2020 CONSTRUCTION (If applicable) 2021			
a. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Broad range of engineering and construction activities including technical assistance to the Hospital Office, construction administration support, quality assurance inspection and daily reporting in RMS, review of contract documents and shop drawings, review of contractors schedules and QC plans. Investigation and reporting of construction contractors claims. Cost: \$996M Fee: \$17.8M Role: Structural Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm				
(1) TITLE AND LOCATION (City and State) Fort Bliss Expansion Program Construction Phase Service - El Paso, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2013 CONSTRUCTION (If applicable) 2013			
d. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: CPS facility types included Combined Brigade and Battalion Headquarters, Company Operations Facilities, Tactical Vehicle Maintenance Facilities, Deployment Storage Buildings, Housing, Dining Facilities, Medical and Dental Clinics, AAFES Facilities, Training Facilities, a Physical Fitness Center and other Community Facilities. Performed professional services, master planning and project planning, and program and construction management. Assignments included program/project management; quality assurance; scheduling; project controls, and on-site oversite and surveillance. Cost: \$4.8B Fee: \$521K Role: Structural Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm				
(1) TITLE AND LOCATION (City and State) Airman and Family Readiness Center (AFRC) – Cannon Air Force Base, Clovis, NM		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2015 CONSTRUCTION (If applicable) 2015			
c. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Provided construction phase support for new Family Readiness Center. A unique aspect of the project was the LEED Silver Air Force requirement with an additional criterion of getting 20 points from the Energy and water conservation categories. Facility included conference rooms, offices for counseling, a kitchen for cooking classes and a 1,000 SF loan locker. The site design included bio-retention ponds to treat the storm water prior to runoff or infiltration. Cost: \$6.2M Fee: \$482K Role: Structural Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm				
(1) TITLE AND LOCATION (City and State) Maneuver Systems Sustainment Center, Phase 3, Main Building – Red River Army Depot, Texarkana, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2013 CONSTRUCTION (If applicable) 2016			
d. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: The Maneuver Systems Sustainment Center (MSSC) is a new facility that achieves consolidation of multiple functions into a single facility. The functions served by the facility include disassembly, rebuild, metal finishing, body repair, painting and preparation of present and future tactical vehicles, including their major components and control systems. The MSSC is one of only three such army depots in the nation. Cost: \$39M Fee: \$1.1M Role: Structural Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm				
(1) TITLE AND LOCATION (City and State) CCAD Hangar 8 Renovation DB RFP – Corpus Christi Army Depot, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2018 CONSTRUCTION (If applicable) Ongoing			
e. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Hangar 8 serves as part of the rotary wing rebuild activities at CCAD. Our team prepared a design-build RFP for the renovation and repair to one of the major maintenance bays of the 1.2M square foot facility. This complex project includes a major overhaul of the systems and facility layout of approximately 70K square feet. The project includes upgrades to comply applicable codes, UFCs and standards for all electrical, structural, fire suppression, HVAC, concrete floor repairs. Services included a charrette to gather the user's specific requirements, validate the 1391 and prepare a ENG Form 3086. The team then prepared a design-build RFP, performed a structural evaluation and participated in the value engineering study with an independent design team. Cost: \$20M Fee: \$1.9M Role: Structural Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm				



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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Chris Scott, RLA, ASLA, CNU-a, LEED AP	13. ROLE IN THIS CONTRACT Landscape Architect	14. YEARS EXPERIENCE a. TOTAL 31 b. WITH CURRENT FIRM 14	
15. FIRM NAME AND LOCATION (City and State) MHZ JV Dallas, TX			
16. EDUCATION (Degree and Specializing) Bachelor of Arts, Landscape Architecture, Texas A&M University, 1981	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Registered Landscape Architect (1999): TX (#1976), NM (# 398), CA (# 5316), WA (#1065) LEED Accredited Professional CNU-Accredited (CNU-A)		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Scott's project experience ranges from master planning and visioning of urban land developments, community amenity design and aesthetics, commercial and retail developments, multi-use urban developments, streetscapes, manufacturing and industrial development, corporate campus design, restaurant and hotel development, tree preservation and identification, and federal and military housing. Chris was responsible for design of nearly \$100M of landscape construction on the Fort Bliss assignments, as well as all landscape architecture for DHS/CBP projects.			
19. RELEVANT PROJECTS			
(1) TITLE AND LOCATION (City and State) Fort Bliss Expansion Program Construction Phase Service - El Paso, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2013 CONSTRUCTION (If applicable) 2013	
a. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: CPS facility types included Combined Brigade and Battalion Headquarters, Company Operations Facilities, Tactical Vehicle Maintenance Facilities, Deployment Storage Buildings, Housing, Dining Facilities, Medical and Dental Clinics, AAFES Facilities, Training Facilities, a Physical Fitness Center and other Community Facilities. Performed professional services, master planning and project planning, and program and construction management. Assignments included program/project management; quality assurance; scheduling; project controls, and on-site oversite and surveillance. Cost: \$4.8B Fee: \$521K Role: Landscape Architect	<input checked="" type="checkbox"/> Check if project performed with current firm		
(1) TITLE AND LOCATION (City and State) Fort Bliss Hospital Infrastructure – Fort Bliss, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2017 CONSTRUCTION (If applicable) 2020	
b. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Provided all civil engineering and site design for the 1.13M SF world class medical center. Coordinated infrastructure requirements and design for the hospital buildings, central utility plant and other support facilities. Access control points and surface parking lots for 4,000 spaces were designed. New 1.5MG water storage and 4 miles of offsite sewer with lift stations support the site. s included approximately 1000 linear feet of median roadway and frontage streetscape. Designs also included median and frontage landscape design, natural recovery areas of rangeland species and short grass plantings, aggregate groundcovers and drip irrigation. Cost: \$85M Fee: \$3.9M Role: Landscape Architect	<input checked="" type="checkbox"/> Check if project performed with current firm		
(1) TITLE AND LOCATION (City and State) Medical Education and Training Campus, Fort Sam Houston - San Antonio, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2012 CONSTRUCTION (If applicable) 2012	
c. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Assisted in the preparation of all planning, site design and over 20 DB RFPs for the \$2.5B BRAC expansion at Ft. Sam Houston, Randolph AFB and Lackland AFB specifically related to the METC program. HZ provided architectural RFP Development Support, MEP, structural, civil and landscape support. Also assisted with planning and RFP Development to create an integrated learning environment for the Medical Education and Training Campus through the development of troop walks, primary walks, secondary walks, pedestrian scale lighting, enhanced landscaping corridors and nodes and other features which will be designed and constructed to enhance the campus. Cost: \$2.5B Fee: \$1M Role: Landscape Architect	<input checked="" type="checkbox"/> Check if project performed with current firm		
(1) TITLE AND LOCATION (City and State) Directorate of Emergency Services Headquarters (DES HQ) and Police Station - White Sands Missile Range, NM		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2011 CONSTRUCTION (If applicable) 2013	
d. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: This project provided for the construction of a new 35,000 sq.-ft. \$13.3M facility with an armory, a detention block, interview rooms, fitness center, showers, training rooms, public lobby, and staff support areas. The second floor houses DES management offices, Scott served as Landscape Architect for the preparation of conceptual designs, design development, construction documentation, and planting plan packages. Cost: \$13.3M Fee: \$1.2M Role: Landscape Architect	<input checked="" type="checkbox"/> Check if project performed with current firm		
(1) TITLE AND LOCATION (City and State) Sims Bayou Trail – Houston, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2017 CONSTRUCTION (If applicable) 2018	
e. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Providing civil engineering, surveying and landscape architecture in the preparation of conceptual designs and construction document packages. Designs included 2.25 miles of hike and bike trails, accessible crossings at street intersections, protective mesh fencing adjacent to the golf course, seating areas with benches and bike racks, selective tree clearing, and landscaping utilizing native species adapted to both drought and flood conditions. Cost: \$8M Fee: \$554K Role: Landscape Architect	<input checked="" type="checkbox"/> Check if project performed with current firm		



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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Stephen Richards, PE	13. ROLE IN THIS CONTRACT Geotechnical Engineer	14. YEARS EXPERIENCE a. TOTAL 50 b. WITH CURRENT FIRM 31	
15. FIRM NAME AND LOCATION (City and State) ETTL Engineers & Consultants Inc Tyler, Texas			
16. EDUCATION (Degree and Specializing) Bachelor of Science, Civil Engineering, Rutgers University, 1972	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer/Civil (1976): TX (#46424), AR (#8984), OK(#18776), LA (#21106), MS (#13030)		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Four plus decades of civil engineering and construction experience including 25 years of responsible charge of geotechnical design and construction materials engineering for transportation, industrial, commercial and residential projects. Member: American Society of Civil Engineers; Geo Institute (Member Embankment Dams and Slopes Committee); Texas Council of Engineering Laboratories (TCEL); Past president of TCEL.			
19. RELEVANT PROJECTS			
(1) TITLE AND LOCATION (City and State) RGAAF Grated Trench Drain Repair - Ft Hood, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2015 CONSTRUCTION (If applicable) 2015	
<p>a. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm</p> <p>Scope: Repairs to existing grated trench drains on an operational airfield. Geology was Walnut Clay formation consisting of weathered limestone (gravelly lean and fat clays). Coordinated coring of pavement, soil sampling, Dynamic Cone Penetrometer (DCP) testing and hole patching within limitations of active aircraft use. Utilized limited sample to conduct unconsolidated/undrained compression testing and correlated with CBR testing for comparison to DCP results. Conducted swell testing to evaluate swell pressures on drain structure and assessed surface infiltration-related erosion beneath pavement. Cost: \$2.8M Fee: \$49K Role: Geotechnical Engineer</p>			
(1) TITLE AND LOCATION (City and State) Lake Tyler Dam & Spillway Forensic Investigation – Tyler, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2012 CONSTRUCTION (If applicable) 2012	
<p>b. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm</p> <p>Scope: Geotechnical investigation and design recommendations. Uncontrolled seepage had created erosion issues that required evaluation and remediation. Construction of 3,000 lf of 60' deep cut-off trench was installed. Geotechnical Study Phase: Field operations consisted of soil sampling (dry auger, mud rotary and hollow stem auger drilling), installing open standpipe (OSP) and vibrating wire piezometers (VWP) ranging in depths between 40 and 60 feet and Standard Penetration Testing. Piezometers have been monitored continuously since installation. Cost: \$9M Role: Geotechnical Engineer</p>			
(1) TITLE AND LOCATION (City and State) USACE Fort Worth District Project Trail Extensions and Creek Crossings		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2019 CONSTRUCTION (If applicable) 2019	
<p>c. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm</p> <p>Scope: provided a Geotechnical Investigation and foundation design recommendations to define and evaluate the general subsurface conditions along the proposed trail extensions and creek crossings located in the Trinity River Floodplain between loop 12 and IH30 bridges in Dallas, Texas. Specifically, the study was conducted to determine the following: subsurface stratigraphy with the limits of exploratory borings; Classification and strength of the foundation soils; appropriate foundation types and bearing capacities to be used in the design; and construction related issues that may be anticipated by the investigation. Cost: xx Role: Geotechnical Engineer</p>			
(1) TITLE AND LOCATION (City and State) USACE Design of New Border Patrol Station (for Border Wall), Freer, Texas		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2018 CONSTRUCTION (If applicable) 2018	
<p>d. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm</p> <p>Scope: Provided a Geotechnical Investigation and foundation design recommendations. The project consisted of the development on approximately 30 acres located near the town of Freer, Texas. Construction included: 48,000 SF patrol station building, 100' tall communication tower, emergency generator, 16,950 SF vehicle maintenance building, 6750 SF equestrian facility, 2800 SF boat storage, 2100 SF ATV storage, 8704 SF in-door firing range, 3523 SF kennel, 18,769 SF helipad, 30' diameter water tank, 1200 SF pump house, 1500 SF vehicle inspection booth, fuel station, 12,000 gallon UST, wash bays, central utility plant, drives, parking areas, perimeter fences, exterior lighting and security cameras. Finished floor elevations were not provided but based on review of the Google Earth elevations for the site, we are expected less than 5' of cut or fill for the structures and paving. Deep foundations consisted of 180-kip helical piles were used to support a structural slab. Fee: \$181K Role: Geotechnical Engineer</p>			
(1) TITLE AND LOCATION (City and State) Fort Hood Wash Rack and Ponds – Remediation Study		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2015 CONSTRUCTION (If applicable) 2017	
<p>e. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm</p> <p>Scope: Repairs to an existing heavy vehicle wash facility including roller compacted concrete pavement evaluation and pond liner rehabilitation/replacement. Geology was Walnut Clay formation consisting of weathered limestone (gravelly lean and fat clays). Devised sampling and testing program to provide data for pavement subgrade structure evaluation. Devised specialty testing to evaluate erodability and soil shear strength (both peak and post-peak fully-softened) for prediction of long-term stability of pond berms. Conducted slope stability analyses of pond berms. Provided recommendations regarding slope rehabilitation and pavement evaluation and subgrade drainage in an engineering report. Cost: \$3.2M Fee: \$51K Role: Geotechnical Engineer</p>			



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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Marty Tittlebaum, PE	13. ROLE IN THIS CONTRACT Environmental Engineer	14. YEARS EXPERIENCE a. TOTAL 42 b. WITH CURRENT FIRM 6	
15. FIRM NAME AND LOCATION (City and State) MHZ JV – New Orleans, LA			
16. EDUCATION (Degree and Specializing) Ph.D. Environmental Engineering, University of Louisville, 1979 ME, Civil Engineering, University of Louisville, 1972 BE, Civil Engineering, University of Louisville, 1971		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer//Civil/Environmental (1980): LA (28532), KY (9563)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Dr. Marty Tittlebaum previously served as the Edward G. Schlieder Chair for Urban Waste Management and Research, as well as the lead professor of Civil and Environmental Engineering at Louisiana State University. Dr. Tittlebaum is a leading engineering expert in water and wastewater treatment and reuse, water quality analysis management planning, solid waste disposal, and hazardous waste identification and disposal. Dr. Tittlebaum has an extensive portfolio of construction phase services projects, providing environmental engineering expertise based on differing site conditions, completing project specific permitting, and engaging construction contractors on the appropriate handling and disposal of hazardous materials.			
19. RELEVANT PROJECTS			
(1) TITLE AND LOCATION (City and State) Replacement of Granger Lake Office Building, Granger TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2019 CONSTRUCTION (If applicable) 2022	
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Development of a design-bid-build package (plans and specs) for the creation of a new Lake office management building and demolition of the existing facilities. Design services included civil, structural, electrical, and mechanical engineering, as well as architectural and landscape architectural design. Dr. Tittlebaum provided the abatement evaluation and design of the existing Granger Lake facility and was available during demolition to respond to inquiries about how to properly handle the areas of hazardous waste. Cost: \$3.2M Fee: \$358K Role: Environmental Engineer <input checked="" type="checkbox"/> Check if project performed with current firm		
b.	(1) TITLE AND LOCATION (City and State) Ascension Parish Environmental Infrastructure Sewer Treatment Plant Design, Hillaryville, LA		
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Development of a design-bid-build package (plans and specs) for the creation of a 1.8 million gallon per day wastewater treatment plant as part of the Federal Section 219 Environmental Infrastructure program. Services consisted of detailed civil/structural/mechanical/electrical/architectural/geotechnical analyses, cost estimating, value engineering, and full USACE review process including BCOES review. Dr. Tittlebaum provided the treatment process design for both phases of the project and provided review of shop drawings and calculations provided by the contractor during construction for the treatment process equipment/facilities. Cost: \$21.5M Fee: \$1.5M Role: Environmental Engineer <input checked="" type="checkbox"/> Check if project performed with current firm		
c.	(1) TITLE AND LOCATION (City and State) New Orleans International Airport Drainage Pump Station Design and Construction Phase Services, New Orleans, LA		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2017 CONSTRUCTION (If applicable) 2019
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Development of a design-bid-build package (plans and specs) for the development of a 600 cfs drainage pump station at the New Orleans International Airport. Services included multi-disciplinary design services in addition to daily inspection, construction phase services and engineering during construction. Dr. Tittlebaum provided environmental engineering services and ITR services during the design and oversaw the abatement of hazardous materials during the construction phase of the project. He reviewed show drawings and worked with the team's full-time inspector to ensure safe practices were utilized during the abatement process of clearing the site for construction. Cost: \$15M Fee: \$1.8M Role: Environmental Engineer <input checked="" type="checkbox"/> Check if project performed with current firm		
d.	(1) TITLE AND LOCATION (City and State) Texas City & Vicinity Hurricane Flood Protection Project, I-Wall to T-Wall Conversion – Texas City, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2021 CONSTRUCTION (If applicable) 2022
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Development of a design-bid-build package (plans and specs) for approximately a mile of failed Federal floodwall conversion from an I-Wall to a T-wall on an active chemical refinery. Services rendered consist of Architectural, Civil and Geotechnical Engineering, Cost Estimating, BCOES review and will consist of Construction Management and Engineering During Construction. Dr. Tittlebaum investigated and compiled an Environmental Compliance Document and Ground Water Conditions document for working on an active refinery. During construction, he participates in contractor status calls and discusses site conditions and potential risks from construction activities with the refinery owners and non-Federal sponsor. Cost: \$15M Fee: \$1.2M Role: Environmental Engineer <input checked="" type="checkbox"/> Check if project performed with current firm		



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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Janice A. McLean	13. ROLE IN THIS CONTRACT Archaeologist	14. YEARS EXPERIENCE a. TOTAL 28 b. WITH CURRENT FIRM 15	
15. FIRM NAME AND LOCATION (City and State) R. Christopher Goodwin & Associates, Inc. Lawrence, Kansas			
16. EDUCATION (Degree and Specializing) Masters of Arts, Anthropology, University of Kansas, 2010		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) N/A	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Member, Register of Professional Archaeologists (no. 4576); Society for American Archaeology; Plains Anthropological Society; Oklahoma Anthropological Society; Kansas Anthropological Association; Nebraska Association of Professional Archeologists			
19. RELEVANT PROJECTS			
(1) TITLE AND LOCATION (City and State) Cultural Resources Support - US Army Garrison Fort Sill, Oklahoma		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2022 CONSTRUCTION (If applicable) N/A	
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Archeological Investigations, including budget oversight, client interaction, work plan development, and administration. She also supervised NRHP eligibility evaluation of nine complex historic cultural properties; archeological inventories of 373.5 acres; and, geoarcheological investigations to delineate areas of high sensitivity for buried cultural properties on the valley floor of East Cache Creek. Tasks included the preparation of action plans for historic properties, NRHP evaluations of 12 historic structures, and Section 106 NHPA and GIS support services. Fee: \$607K Role: Archaeologist <input checked="" type="checkbox"/> Check if project performed with current firm		
b.	(1) TITLE AND LOCATION (City and State) Cultural Resources Support for FY 2018 - Fort Sill, Oklahoma		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2021 CONSTRUCTION (If applicable) N/A
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Ms. McLean was the Principal Investigator for all RCG&A task orders under this contract, as well as the Project Manager for all archaeological tasks including oversight of quality control. The project involved Section 106 Consultation support, NHPA support, evaluations of historic structures, and GIS support. Fee: \$365K Role: Archaeologist <input checked="" type="checkbox"/> Check if project performed with current firm		
c.	(1) TITLE AND LOCATION (City and State) Title Location Cultural Resources Support FY 2019 - Fort Sill, Oklahoma		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2021 CONSTRUCTION (If applicable) N/A
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: The tasks for this project involved a cultural properties ethnographic study, scanning archived blueprints, and extensive reporting on archaeological testing. Fee: \$593K Role: Archaeologist <input checked="" type="checkbox"/> Check if project performed with current firm		
d.	(1) TITLE AND LOCATION (City and State) Cultural Resources Support for Environmental Quality Division - US Army Garrison Fort Sill, Comanche County, Oklahoma		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2020 CONSTRUCTION (If applicable) N/A
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Contract involved digitization of selected records, photos, and blueprints archived at the Fort Sill Museum and National Historic Landmark to create a Fort Sill Cultural Resources Inventory; ethnographic study including direct consultation with Indian Tribes with historic ties to Fort Sill to identify and delineate the boundaries of traditional cultural properties and sacred sites on the Installation; NRHP evaluations of four structures and National Register documentation improvements for selected historic properties; National Register nominations for McNair Hall, Artillery Bowl, and Searby Hall; GIS support; geophysical surveys of four Native American cemeteries at Fort Sill (Beef Creek, Bailtso, Chief Chihuahua, and Otipoby); and, general NHPA support. Fee: \$1.9M Role: Archaeologist <input checked="" type="checkbox"/> Check if project performed with current firm		
e.	(1) TITLE AND LOCATION (City and State) NRHP Investigations at Pine Creek Lake - McCurtain County, Oklahoma		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2018 CONSTRUCTION (If applicable) N/A
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: RCG&A evaluated the NRHP eligibility of 8 archaeological sites (Base Task 1); delineated the boundaries of seven sites (Option 1); and, completed an archeological shovel test inventory of 800 acres (Option 2). Fee: \$257K Role: Project Manager <input checked="" type="checkbox"/> Check if project performed with current firm		



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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Rob Armstrong, PE, CFM		13. ROLE IN THIS CONTRACT Hydraulic Engineer		14. YEARS EXPERIENCE a. TOTAL 35 b. WITH CURRENT FIRM 18	
15. FIRM NAME AND LOCATION (City and State) MHZ JV Dallas, TX					
16. EDUCATION (Degree and Specializing) Bachelor of Science, Civil Engineering, University of Oklahoma, 1986		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer/Civil: TX (#87107), NE (#E-7244), OK (#21127), WA (#43982) Certified Floodplain Manager (# 2838-15N)			
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Rob has more than 30 years of experience in civil engineering site development, open channel hydraulics, channel restoration, geomorphology, hydrologic analyses, storm water analysis, master planning and design, bridge hydraulic and scour studies, and FEMA modeling and permitting. Rob professional experience covering a wide range of engineering projects and spanning all phases from master planning to design. His breadth and depth of expertise includes general civil engineering to mathematical modeling of dynamic hydraulic simulation of complex systems.					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State) Fort Bliss Hospital CPS – El Paso, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2020 CONSTRUCTION (If applicable) 2020		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Broad range of engineering and construction activities including technical assistance to the Hospital Office, construction administration support, quality assurance inspection and daily reporting in RMS, review of contract documents and shop drawings, review of contractors schedules and QC plans. Investigation and reporting of construction contractors claims. Cost: \$996M Fee: \$18M Role: Hydraulic Engineer		<input checked="" type="checkbox"/> Check if project performed with current firm		
b.	(1) TITLE AND LOCATION (City and State) Fort Bliss Expansion Program - El Paso, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2013 CONSTRUCTION (If applicable) 2013		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: CPS facility types included Combined Brigade and Battalion Headquarters, Company Operations Facilities, Tactical Vehicle Maintenance Facilities, Deployment Storage Buildings, Housing, Dining Facilities, Medical and Dental Clinics, AAFES Facilities, Training Facilities, a Physical Fitness Center and other Community Facilities. Performed professional services, master planning and project planning, and program and construction management. Assignments included program/project management; quality assurance; scheduling; project controls, and on-site oversite and surveillance. Cost: \$4.8B Fee: \$20M Role: Hydraulic Engineer		<input checked="" type="checkbox"/> Check if project performed with current firm		
c.	(1) TITLE AND LOCATION (City and State) Medical Education and Training Campus, Fort Sam Houston - San Antonio, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2012 CONSTRUCTION (If applicable) 2012		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Assisted in the preparation of all planning, site design and over 20 DB RFPs for the \$2.5B BRAC expansion at Ft. Sam Houston, Randolph AFB and Lackland AFB specifically related to the METC program. HZ provided architectural RFP Development Support, MEP, structural, civil and landscape support. Also oversaw the civil and site development for the 200 acres of development for the METC program. We worked with the civil engineering staff to establish the site grades and drainage patterns and identified the capacity and locations of the retention and detention facilities to meet EISA 428. He prepared stormwater calculations based on FEMA floodplains to ensure the future facilities were constructed out of the floodplain. Cost: \$2.5B Role: Hydraulic Engineer		<input checked="" type="checkbox"/> Check if project performed with current firm		
d.	(1) TITLE AND LOCATION (City and State) Fort Bliss Main Cantonment Drainage Master Plan – El Paso, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2013 CONSTRUCTION (If applicable) N/A		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Preparation of a drainage master plan for the 4.5 square mile main cantonment area. Modeling was completed utilizing InfoWorks SD, implementing both 1D and 2D elements within the study. This complex storm water model included analysis of storm drains, ditches, open channels, culverts, pump stations, detention ponds and retention ponds. The analysis culminated in the development of recommended improvements which consisted of nine individual projects, each one addressing a specific flood risk area. Fee: \$325K Role: Hydraulic Engineer		<input checked="" type="checkbox"/> Check if project performed with current firm		
e.	(1) TITLE AND LOCATION (City and State) Fort Sam Houston Master Drainage Plan – San Antonio, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2012 CONSTRUCTION (If applicable) N/A		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: The project included a stormwater master plan for over 3,000 acres, providing an inventory assessment of existing drainage facilities, including inlets, pipes, ditches, and culverts of both on and off the installation. Existing and anticipated future conditions, based on proposed land use, were modeled. These results serve as the basis for developing a list of proposed capital improvements. Analysis was performed using Infoworks SD and HEC-RAS. Floodplain mapping was performed for multiple recurrence interval storms. Fee: \$329K Role: Hydraulic Engineer		<input checked="" type="checkbox"/> Check if project performed with current firm		



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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Andre Garabedian, FPE	13. ROLE IN THIS CONTRACT Fire Protection Engineer	14. YEARS EXPERIENCE a. TOTAL 26 b. WITH CURRENT FIRM 13	
15. FIRM NAME AND LOCATION (City and State) Garabedian Associates Helotes, Texas			
16. EDUCATION (Degree and Specializing) Master of Science, Fire Protection Engineering, Worcester Polytechnic Institute, 1995 Bachelor of Science, Civil Engineering, Worcester Polytechnic Institute, 1994		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Licensed Fire Protection Engineer (2003): TX (#PE 90954)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Member International Code Council (ICC), Member National Fire Protection Association (NFPA), Member City of San Antonio Building and Fire Code Board of Appeals, Member and Past President Society of Fire Protection Engineers (SFPE) - Central Texas Chapter.			
19. RELEVANT PROJECTS			
(1) TITLE AND LOCATION (City and State) Contract Fire Protection Engineer, South Texas Area Office Joint-Base San Antonio (JBSA) - Fort Sam Houston, Lackland AFB, Camp Bullis, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2021 CONSTRUCTION (If applicable) 2021	
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Fire Protection Engineer for USACE Southwest District. Conduct shop drawing submittal reviews (sprinkler, fire alarm, kitchen hood suppression systems, clean agent systems, etc.) Projects include offices, barracks, storage, healthcare, maintenance facilities, assembly, etc. Follow-up Construction Administration inspections of fire and life safety installations and full system commissioning oversight. Cost: \$5B Fee: \$1.6M Role: Fire Protection Engineer <input checked="" type="checkbox"/> Check if project performed with current firm		
b.	(1) TITLE AND LOCATION (City and State) Federal Motor Carrier Safety Administration - Various Ports in South Texas, New Mexico, and Arizona (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Performed design reviews of sprinkler, fire alarm, and life safety systems for 12 ports in south Texas, New Mexico, and Arizona. Evaluated compliance with the IBC, NFPA 101, NFPA 72, NFPA 13, and PBS P-100. Performed plant inspections of modular building fabrication as well as in-field inspections. Performed sprinkler and fire alarm commissioning tests with GSA representatives, prior to building acceptance. Fee: \$150K Role: Fire Protection Engineer <input checked="" type="checkbox"/> Check if project performed with current firm		
c.	(1) TITLE AND LOCATION (City and State) Oklahoma City Federal Office Building (FOB) and Post Office Building (POB) Feasibility Study with Supplemental Egress Analysis		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2013 CONSTRUCTION (If applicable) 2015
d.	(1) TITLE AND LOCATION (City and State) Veterans Administration San Antonio Audie Murphy Emergency Department Renovation and New Human Resources Building		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2017 CONSTRUCTION (If applicable) Ongoing
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Developed sprinkler, fire alarm and life safety system design documents for a renovation and new building on site. Project included design documents, shop drawing reviews, and final commissioning of sprinkler and fire alarm systems in the building. Fee: \$24K Role: Fire Protection Engineer <input checked="" type="checkbox"/> Check if project performed with current firm		
(1) TITLE AND LOCATION (City and State) San Antonio Federal Courthouse Santa Rosa Ave. - San Antonio, Texas		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2020 CONSTRUCTION (If applicable) Ongoing	
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Acted as technical consultant to General Services Administration Region 7. Responsible for life safety system submittal reviews (sprinkler and fire alarm systems) in accordance with the IBC, NFPA 101, NFPA 72, NFPA 13, and PBS P-100. Follow-up Construction Administration phase included periodic site inspections of sprinkler and fire alarm system installation. Responsible for complete system testing and certification prior to acceptance. Fee: \$44K Role: Fire Protection Engineer <input checked="" type="checkbox"/> Check if project performed with current firm		



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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Don Daigle, CVS, CPE	13. ROLE IN THIS CONTRACT Cost Estimator	14. YEARS EXPERIENCE a. TOTAL 37 b. WITH CURRENT FIRM 5	
15. FIRM NAME AND LOCATION (City and State) MHZ JV Houston, TX			
16. EDUCATION (Degree and Specializing) AAS, Mechanical Engineering, Virginia Technical, 1984 AAS, Electro-Mechanical Engineering, Virginia Technical 1982		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Certified Value Specialist (CVS): #201203044 Certified Professional Estimator (CPE) #1.4-0009821-1214	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Mr. Daigle has a wide-range of experience in value engineering, cost estimating and cost management, life cycle cost analysis, scheduling, quality control techniques, and design construction cost reconciliation. He is a Certified Value Specialist and proficient in estimating using MCACES and PACES software. Mr. Daigle has provided MII cost estimating for multiple USACE districts including all task orders completed on the current Civil Works contract. He also has experience providing detailed cost estimating for the Air Force on several projects.			
19. RELEVANT PROJECTS			
(1) TITLE AND LOCATION (City and State) Design-Build RFP Development: 277K Levee Raise and Delta Pump Station – Dallas, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2021 CONSTRUCTION (If applicable) 2023	
<p>a. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm</p> <p>Scope: Development of two design-build RFP packages for flood risk reduction measures along the Dallas Floodway, consisting of the 277K levee raise and Delta Pump Station replacement. Other services consisted of cost estimating, value engineering, design, drafting and planning for demolition of existing facilities, and Civil/Structural/Mechanical/Electrical/Architectural engineering analyses and design. Mr. Daigle led the development of two stand-alone cost estimates (design-build packages bid separately). He developed detailed MCACES cost estimates to a 35% level for both the levee raise and pump station replacement projects. Cost: \$320M Fee: \$1.2M Role: Cost Estimator</p>			
(1) TITLE AND LOCATION (City and State) Dallas Floodway Extension Phase II Recreation and Access Design – Dallas, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2020 CONSTRUCTION (If applicable) 2022	
<p>b. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm</p> <p>Scope: Development of a design-build package (plans and specs) for a recreational project along the Dallas Floodway Extension. Services rendered included hydrology and hydraulic modeling, civil and structural design analyses, landscape architecture, cost estimating and BCOES review for extensive concrete trails, several bridges including a large bridge over the Trinity River and several other recreational features. Mr. Daigle developed the conceptual estimate using PACES, and provided the remaining estimates utilizing MCACES. Cost: \$4.7M Fee: \$422K Role: Cost Estimator</p>			
(1) TITLE AND LOCATION (City and State) Cow Bayou Drainage Pump Station Complex Design – Orange, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2020 CONSTRUCTION (If applicable) 2022	
<p>c. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm</p> <p>Scope: Development of a 35% design package (plans, specs, and DDR) for a new 8,000 cfs drainage pump station complex consisting of multiple flood risk management reduction measures such as a pump station, safe house, floodwalls, and sector gate. Main responsibilities consisted of civil, structural, and architectural analyses. The task order was to provide a 35% level of design with anticipation of changing the project to a Design-Build RFP. Mr. Daigle performed MCACES cost estimating for the project. He worked extensively within the workbooks and through contractor contacts, to gain an understanding of regional pricing for major design features of the project and relayed quotes and information to USACE. Cost: \$325M Fee: \$1.3M Role: Cost Estimator</p>			
(1) TITLE AND LOCATION (City and State) Texas City & Vicinity Hurricane Flood Protection Project, I-Wall to T-Wall Conversion – Texas City, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2021 CONSTRUCTION (If applicable) 2022	
<p>d. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm</p> <p>Scope: Development of a design-build package (plans and specs) for approximately a mile of failed Federal floodwall conversion from an I-Wall to a T-wall on an active chemical refinery. Services rendered consist of Architectural, Civil and Geotechnical Engineering, Cost Estimating, BCOES review and will consist of Construction Management and Engineering During Construction. Mr. Daigle provided detailed cost estimating for the project inclusive of input to the value engineering team, as well as detailed MCACES cost estimating with detailed line-item backup cost data. Cost: \$15M Fee: \$1.2M Role: Cost Estimator</p>			



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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each key person.)

12. NAME Dani Alexander	13. ROLE IN THIS CONTRACT Quality Assurance Representative	14. YEARS EXPERIENCE a. TOTAL 23 b. WITH CURRENT FIRM 7	
15. FIRM NAME AND LOCATION (City and State) MHZ JV – New Orleans, LA			
16. EDUCATION (Degree and Specializing) Associates of Science – Bishop State University - 1998	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Ms. Alexander is an experienced project manager and quality assurance representative with over ten consecutive years of experience providing both services to project and programs at the USACE New Orleans District. Ms. Alexander has served as an In-House consultant provided support to multiple offices at MVN, inclusive of the Projects and Restoration Branch, the Construction Branch, and several area offices. She routinely prepares and edits project documents for upward reporting and coordination with government personnel, has extensive experience developing project fact sheets, project briefings, providing field reconnaissance and damage assessment reports, providing construction progress updates, and providing onsite administrative support, oversight of construction activities and review of contract documents and submittals.			
19. RELEVANT PROJECTS			
(1) TITLE AND LOCATION (City and State) Project Management, Construction Management and Quality Assurance Support for the Coastal Wetlands Planning, Protection, and Restoration Act (CWPPRA), New Orleans, LA		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2020 CONSTRUCTION (If applicable) 2021	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE a. Scope: Project Management, Construction Management and Quality Assurance Support for the CWPPRA program at the USACE New Orleans District. Staff member responsibilities include onsite assistance and guidance to USACE field offices, onsite project management, onsite administration support, onsite review of contract documents and submittals, onsite interpretation of plans and specifications, onsite evaluation of construction progress. Ms. Alexander served as the Construction Project Manager and Quality Assurance Representative for this task order. She was responsible for reporting construction progress, the interpretation of plans and specifications with the area office, assisting with contractor claims and change orders and overseeing construction schedules, milestones, and pay application requests. Fee: \$540K Role: Quality Assurance Representative/Construction PM		<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) Mississippi River & Tributaries (MR&T), Floodplain Management Services & EPA Investigations Project Management Support Services, New Orleans, LA		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2020 CONSTRUCTION (If applicable) 2021	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE b. Scope: Onsite project management, administrative, scheduling and construction support for several USACE programs inclusive of the BBA18 and Mississippi River & Tributaries programs. Onsite services included support to USACE field/area offices, onsite review of quality control plans and onsite review of contract documents and submittals. Ms. Alexander served as an onsite Project Manager/Quality Assurance Representative responsible for the overview and development of quality control plans, project management support to USACE field/area offices and onsite review of contract documents and submittals. Fee: \$2M Role: Quality Assurance Representative/Construction PM		<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) HSDRRS Program Management and Scheduling, New Orleans, LA – USACE New Orleans District		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2018 CONSTRUCTION (If applicable) 2020	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE c. Scope: Onsite project management and construction field services associated with the HSDRRS program at the USACE New Orleans District. Task order services included the development of Project Management Plans, development of field reconnaissance and damage assessment reports of active construction projects following major storm events, development of construction schedules, and project assistance to USACE area/field offices in the form of assistance with contractor claims and contract documentation development and modification. Ms. Alexander provided the project and construction management services for this task order. She worked with the schedulers to develop construction schedules and served as a liaison to the area office for the development and modification of contractor documents and contracts. Ms. Alexander was also responsible for providing briefings of construction activities to the USACE MVN front office and vertical team. Finally, she was responsible for developing and overseeing quality control plans for construction activities. Fee: \$2M Role: Quality Assurance Representative/Construction PM		<input checked="" type="checkbox"/> Check if project performed with current firm	



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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Aurelio Paez, CQM	13. ROLE IN THIS CONTRACT Quality Assurance Representative	14. YEARS EXPERIENCE a. TOTAL 35 b. WITH CURRENT FIRM 11	
15. FIRM NAME AND LOCATION (City and State) MHZ JV Fort Worth, TX			
16. EDUCATION (Degree and Specializing) N/A	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) USACE CQM Certified OSHA 30		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Aurelio has been responsible for day-to-day construction oversight and quality assurance inspections on major vertical projects for USACE projects for over 10 years. He is experienced with military construction and able to determine compliance with contract documents, including daily project reporting and documentation of activities and inspections into RMS. Other activities include daily coordination of activities, contractor/vendor activity coordination and warranty support.			
19. RELEVANT PROJECTS			
(1) TITLE AND LOCATION (City and State) Fort Bliss Hospital Construction Phase Services - El Paso, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2020 CONSTRUCTION (If applicable) 2020	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Perform quality assurance on work performed by general contractor and subcontractors to ensure all work is performed in accordance with all applicable codes, project plans and required specifications throughout the facility, to include mechanical, plumbing, electrical, building systems and concrete placement. Provide code interpretation, inspection reports and all related documentation of observations and inspections. Carefully monitor and inspect all materials and workmanship to insure adherence to all contract requirements. Perform design review and provide input, feed-back and resolution for any issues encountered to design and systems engineers. Evaluate all findings of unsatisfactory conditions and prepares documented reports on RMS (Resident Management System) along with recommendations to help increase contractor and project efficiency. Cost: \$996M Fee: \$17.8M Role: Quality Assurance Representative			
(1) TITLE AND LOCATION (City and State) Quality Assurance Support for the Border Program - El Paso, TX/Yuma, AZ		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2021 CONSTRUCTION (If applicable) 2021	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Provided Quality Assurance Representatives (QAR's) at every discipline level on multi-shift oversight in the El Paso/Yuma Region, reporting to the Border Barrier PMO and its designated Resident Engineers (RE's) Work includes construction inspection, safety monitoring, RMS reporting, compliance to EM 385-1-1 and OSHA requirements (especially focused on barrier bracing and foundation curing). Review contractor pay requests and submittals as required/requested by RE's on a site-by-site basis for 125 miles of barrier. Cost: \$668M Fee: \$11.5M Role: Quality Assurance Representative			
(1) TITLE AND LOCATION (City and State) Fort Bliss Expansion Program Construction Phase Service - El Paso, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2013 CONSTRUCTION (If applicable) 2013	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: CPS facility types included Combined Brigade and Battalion Headquarters, Company Operations Facilities, Tactical Vehicle Maintenance Facilities, Deployment Storage Buildings, Housing, Dining Facilities, Medical and Dental Clinics, AAFES Facilities, Training Facilities, a Physical Fitness Center and other Community Facilities. Performed professional services, master planning and project planning, and program and construction management. Assignments included program/project management; quality assurance; scheduling; project controls, and on-site oversite and surveillance. Cost: \$4.8B Fee: \$521K Role: Quality Assurance Representative			
(1) TITLE AND LOCATION (City and State) Quality Assurance Support for the Border Program – San Diego, CA		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2021 CONSTRUCTION (If applicable) 2021	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Provided Quality Assurance Representatives (QAR's) at every discipline level on multi-shift oversight in the San Diego Region, reporting to the Border Barrier PMO and its designated Resident Engineers (RE's) Work includes construction inspection, safety monitoring, RMS reporting, compliance to EM 385-1-1 and OSHA requirements (especially focused on barrier bracing and foundation curing). Review contractor pay requests and submittals as required/requested by RE's on a site-by-site basis for 5 miles of barrier. Cost: \$668M Fee: \$1.2M Role: Quality Assurance Representative			
(1) TITLE AND LOCATION (City and State) TFC Program Management Services for Texas Border Infrastructure - TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES Ongoing CONSTRUCTION (If applicable) Ongoing	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: After the Disaster Declaration, \$250 million was reallocated from the current budget as "a down payment to launch construction of a Southern Texas border wall." Program development is ongoing, and our team is playing a key role in facilitating the Program's final composition. Planning and programming of the Texas Border Wall including developing the total program and individual project budgets, options, and recommendations for the most effective and efficient wall alignment, with locations for supporting infrastructure including access roads for maintenance and patrols, gates, infrastructure for monitoring equipment. Cost: \$250M Fee: \$8.9M Role: Quality Assurance Representative			



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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Channing Brown III, CQM	13. ROLE IN THIS CONTRACT Quality Assurance Representative	a. TOTAL 37	b. WITH CURRENT FIRM 4	14. YEARS EXPERIENCE
15. FIRM NAME AND LOCATION (City and State) MHZ JV Fort Worth, TX				
16. EDUCATION (Degree and Specializing) N/A	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) USACE CQM Certified OSHA 30			
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Channing Brown II has over 35 years of experience in federal, residential, and commercial construction. He specializes in Job Safety Programs, OSHA and Government EM385-1-1 compliance. He is experienced with military construction and able to determine compliance with contract documents, including daily project reporting and documentation of activities and inspections into RMS. Management experience also includes detailed work related to estimating, CORs, scheduling, material and subcontractor buy out, quality control, subcontractor coordination, construction document review and verification, and personnel management.				
19. RELEVANT PROJECTS				
(1) TITLE AND LOCATION (City and State) Fort Bliss Hospital Construction Phase Services - El Paso, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2020 CONSTRUCTION (If applicable) 2020		
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Performed quality assurance on work performed by general contractor and subcontractors to ensure all work is performed in accordance with all applicable codes, project plans and required specifications throughout the facility, to include mechanical, plumbing, electrical, building systems and concrete placement. Provide code interpretation, inspection reports and all related documentation of observations and inspections. Carefully monitor and inspect all materials and workmanship to insure adherence to all contract requirements. Perform design review and provide input, feed-back and resolution for any issues encountered to design and systems engineers. Evaluate all findings of unsatisfactory conditions and prepares documented reports on RMS (Resident Management System) along with recommendations to help increase contractor and project efficiency. Cost: \$996M Fee: \$17.8M Role: Construction Inspector				
<input checked="" type="checkbox"/> Check if project performed with current firm				
a. Scope: Performed quality assurance on work performed by general contractor and subcontractors to ensure all work is performed in accordance with all applicable codes, project plans and required specifications throughout the facility, to include mechanical, plumbing, electrical, building systems and concrete placement. Provide code interpretation, inspection reports and all related documentation of observations and inspections. Carefully monitor and inspect all materials and workmanship to insure adherence to all contract requirements. Perform design review and provide input, feed-back and resolution for any issues encountered to design and systems engineers. Evaluate all findings of unsatisfactory conditions and prepares documented reports on RMS (Resident Management System) along with recommendations to help increase contractor and project efficiency. Cost: \$996M Fee: \$17.8M Role: Construction Inspector				
(1) TITLE AND LOCATION (City and State) Quality Assurance Support for the Border Program - El Paso, TX/Yuma, AZ		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2021 CONSTRUCTION (If applicable) 2021		
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Provided Quality Assurance Representatives (QAR's) at every discipline level on multi-shift oversight in the El Paso/Yuma Region, reporting to the Border Barrier PMO and its designated Resident Engineers (RE's) Work includes construction inspection, safety monitoring, RMS reporting, compliance to EM 385-1-1 and OSHA requirements (especially focused on barrier bracing and foundation curing). Review contractor pay requests and submittals as required/requested by RE's on a site-by-site basis for 125 miles of barrier. Cost: \$668M Fee: \$11.5M Role: Quality Assurance Representative				
<input checked="" type="checkbox"/> Check if project performed with current firm				
b. Scope: Provided Quality Assurance Representatives (QAR's) at every discipline level on multi-shift oversight in the El Paso/Yuma Region, reporting to the Border Barrier PMO and its designated Resident Engineers (RE's) Work includes construction inspection, safety monitoring, RMS reporting, compliance to EM 385-1-1 and OSHA requirements (especially focused on barrier bracing and foundation curing). Review contractor pay requests and submittals as required/requested by RE's on a site-by-site basis for 125 miles of barrier. Cost: \$668M Fee: \$11.5M Role: Quality Assurance Representative				
(1) TITLE AND LOCATION (City and State) Fort Bliss Expansion Program Construction Phase Service - El Paso, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2013 CONSTRUCTION (If applicable) 2013		
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: CPS facility types included Combined Brigade and Battalion Headquarters, Company Operations Facilities, Tactical Vehicle Maintenance Facilities, Deployment Storage Buildings, Housing, Dining Facilities, Medical and Dental Clinics, AAFES Facilities, Training Facilities, a Physical Fitness Center and other Community Facilities. Performed professional services, master planning and project planning, and program and construction management. Assignments included program/project management; quality assurance; scheduling; project controls, and on-site oversite and surveillance. Cost: \$4.8B Fee: \$521K Role: Quality Assurance Representative				
<input checked="" type="checkbox"/> Check if project performed with current firm				
c. Scope: CPS facility types included Combined Brigade and Battalion Headquarters, Company Operations Facilities, Tactical Vehicle Maintenance Facilities, Deployment Storage Buildings, Housing, Dining Facilities, Medical and Dental Clinics, AAFES Facilities, Training Facilities, a Physical Fitness Center and other Community Facilities. Performed professional services, master planning and project planning, and program and construction management. Assignments included program/project management; quality assurance; scheduling; project controls, and on-site oversite and surveillance. Cost: \$4.8B Fee: \$521K Role: Quality Assurance Representative				
(1) TITLE AND LOCATION (City and State) Quality Assurance Support for the Border Program – San Diego, CA		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2021 CONSTRUCTION (If applicable) 2021		
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Provided Quality Assurance Representatives (QAR's) at every discipline level on multi-shift oversight in the San Diego Region, reporting to the Border Barrier PMO and its designated Resident Engineers (RE's) Work includes construction inspection, safety monitoring, RMS reporting, compliance to EM 385-1-1 and OSHA requirements (especially focused on barrier bracing and foundation curing). Review contractor pay requests and submittals as required/requested by RE's on a site-by-site basis for 5 miles of barrier. Cost: \$668M Fee: \$1.2M Role: Quality Assurance Representative				
<input checked="" type="checkbox"/> Check if project performed with current firm				
d. Scope: Provided Quality Assurance Representatives (QAR's) at every discipline level on multi-shift oversight in the San Diego Region, reporting to the Border Barrier PMO and its designated Resident Engineers (RE's) Work includes construction inspection, safety monitoring, RMS reporting, compliance to EM 385-1-1 and OSHA requirements (especially focused on barrier bracing and foundation curing). Review contractor pay requests and submittals as required/requested by RE's on a site-by-site basis for 5 miles of barrier. Cost: \$668M Fee: \$1.2M Role: Quality Assurance Representative				
(1) TITLE AND LOCATION (City and State) TFC Program Management Services for Texas Border Infrastructure - Texas		(2) YEAR COMPLETED PROFESSIONAL SERVICES Ongoing CONSTRUCTION (If applicable) Ongoing		
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: After the Disaster Declaration, \$250 million was reallocated from the current budget as "a down payment to launch construction of a Southern Texas border wall." Program development is ongoing, and our team is playing a key role in facilitating the Program's final composition. Planning and programming of the Texas Border Wall including developing the total program and individual project budgets, options, and recommendations for the most effective and efficient wall alignment, with locations for supporting infrastructure including access roads for maintenance and patrols, gates, infrastructure for monitoring equipment. Cost: \$250M Fee: \$8.9M Role: Quality Assurance Representative				
<input checked="" type="checkbox"/> Check if project performed with current firm				
e. Scope: After the Disaster Declaration, \$250 million was reallocated from the current budget as "a down payment to launch construction of a Southern Texas border wall." Program development is ongoing, and our team is playing a key role in facilitating the Program's final composition. Planning and programming of the Texas Border Wall including developing the total program and individual project budgets, options, and recommendations for the most effective and efficient wall alignment, with locations for supporting infrastructure including access roads for maintenance and patrols, gates, infrastructure for monitoring equipment. Cost: \$250M Fee: \$8.9M Role: Quality Assurance Representative				



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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Gabe Mercado, CQM	13. ROLE IN THIS CONTRACT Quality Assurance Representative	14. YEARS EXPERIENCE a. TOTAL 21 b. WITH CURRENT FIRM 4	
15. FIRM NAME AND LOCATION (City and State) MHZ JV Fort Worth, TX			
16. EDUCATION (Degree and Specializing) N/A	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) USACE CQM Certified		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Construction Inspector for 18 months on our border barrier program and gained invaluable knowledge of conditions requiring specialist security services. Construction experience consists of 18 continuous years varying from in the field work to supervisory and management roles. Began hands on training as a carpenter in the state of Texas for several large local companies. Field experience eventually led to supervisory/management positions for the last eight years with involvement in several city and government projects. These projects included commercial remodel, new building construction, interior finish, finish carpentry, and ADA regulation compliance. Management experience also includes detailed work related to estimating, CORs, scheduling, material and subcontractor buy out, quality control, subcontractor coordination, construction document review and verification, and personnel management.			
19. RELEVANT PROJECTS			
(1) TITLE AND LOCATION (City and State) Fort Bliss Hospital Construction Phase Services - El Paso, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2020 CONSTRUCTION (If applicable) 2020	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Performed quality assurance on work performed by general contractor and subcontractors to ensure all work is performed in accordance with all applicable codes, project plans and required specifications throughout the facility, to include mechanical, plumbing, electrical, building systems and concrete placement. Provide code interpretation, inspection reports and all related documentation of observations and inspections. Carefully monitor and inspect all materials and workmanship to insure adherence to all contract requirements. Perform design review and provide input, feed-back and resolution for any issues encountered to design and systems engineers. Evaluate all findings of unsatisfactory conditions and prepares documented reports on RMS (Resident Management System) along with recommendations to help increase contractor and project efficiency. Cost: \$996M Fee: \$17.8M Role: Quality Assurance Representative			
(1) TITLE AND LOCATION (City and State) Quality Assurance Support for the Border Program - El Paso, TX/Yuma, AZ		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2021 CONSTRUCTION (If applicable) 2021	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Provided Quality Assurance Representatives (QAR's) at every discipline level on multi-shift oversight in the El Paso/Yuma Region, reporting to the Border Barrier PMO and its designated Resident Engineers (RE's) Work includes construction inspection, safety monitoring, RMS reporting, compliance to EM 385-1-1 and OSHA requirements (especially focused on barrier bracing and foundation curing). Review contractor pay requests and submittals as required/requested by RE's on a site-by-site basis for 125 miles of barrier. Cost: \$668M Fee: \$11.5M Role: Quality Assurance Representative			
(1) TITLE AND LOCATION (City and State) Fort Bliss Expansion Program Construction Phase Service - El Paso, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2013 CONSTRUCTION (If applicable) 2013	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: CPS facility types included Combined Brigade and Battalion Headquarters, Company Operations Facilities, Tactical Vehicle Maintenance Facilities, Deployment Storage Buildings, Housing, Dining Facilities, Medical and Dental Clinics, AAFES Facilities, Training Facilities, a Physical Fitness Center and other Community Facilities. Performed professional services, master planning and project planning, and program and construction management. Assignments included program/project management; quality assurance; scheduling; project controls, and on-site oversite and surveillance. Cost: \$4.8B Fee: \$521K Role: Quality Assurance Representative			
(1) TITLE AND LOCATION (City and State) TFC Program Management Services for Texas Border Infrastructure - Texas		(2) YEAR COMPLETED PROFESSIONAL SERVICES Ongoing CONSTRUCTION (If applicable) Ongoing	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: After the Disaster Declaration, \$250 million was reallocated from the current budget as "a down payment to launch construction of a Southern Texas border wall." Program development is ongoing, and our team is playing a key role in facilitating the Program's final composition. Planning and programming of the Texas Border Wall including developing the total program and individual project budgets, options, and recommendations for the most effective and efficient wall alignment, with locations for supporting infrastructure including access roads for maintenance and patrols, gates, infrastructure for monitoring equipment. Cost: \$250M Fee: \$8.9M Role: Quality Assurance Representative			
(1) TITLE AND LOCATION (City and State) Maintenance, Repair, and Upgrade and Construction of Real Property Facilities - Fort Bliss, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2013 CONSTRUCTION (If applicable) 2013	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Was directly responsible for the coordination, execution, and completion of all awarded Task Orders. Worked in collaboration with company estimator to complete all proposals, conduct negotiations with USACE, and follow through to award. Was responsible for attendance of all weekly government meetings. Monitored company QC program, and ensured compliance with USACE QCS requirements as well as the monitoring of company safety policies ensuring compliance with all USACE requirements. Cost: \$8M Role: Quality Assurance Representative			



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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Bobby Lucero, CQM	13. ROLE IN THIS CONTRACT Quality Assurance Representative	14. YEARS EXPERIENCE a. TOTAL 34 b. WITH CURRENT FIRM 2	
15. FIRM NAME AND LOCATION (City and State) MHZ JV Fort Worth, TX			
16. EDUCATION (Degree and Specializing) Architectural Drafting Technology Certification, Dona Ana Branch Community College, 1981		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) USACE CQM Certified OSHA 30	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Over 34 years of experience in the Electrical, Plumbing, Mechanical and Building industries. Lucero currently hold GB-98, EE-98 and EE-98J licenses in the state of New Mexico which have reciprocity in 11 additional states.			
19. RELEVANT PROJECTS			
(1) TITLE AND LOCATION (City and State) Fort Bliss Hospital Construction Phase Services - El Paso, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2020 CONSTRUCTION (If applicable) 2020	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Performed quality assurance on work performed by general contractor and subcontractors to ensure all work is performed in accordance with all applicable codes, project plans and required specifications throughout the facility, to include mechanical, plumbing, electrical, building systems and concrete placement. Provide code interpretation, inspection reports and all related documentation of observations and inspections. Carefully monitor and inspect all materials and workmanship to insure adherence to all contract requirements. Perform design review and provide input, feed-back and resolution for any issues encountered to design and systems engineers. Evaluate all findings of unsatisfactory conditions and prepares documented reports on RMS (Resident Management System) along with recommendations to help increase contractor and project efficiency. Cost: \$996M Fee: \$17.8M Role: Quality Assurance Representative			
<input checked="" type="checkbox"/> Check if project performed with current firm			
a.			
(1) TITLE AND LOCATION (City and State) Quality Assurance (QA) Support and Construction Project Scheduling Support for Task Force Barrier - El Paso, TX/Yuma, AZ		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2021 CONSTRUCTION (If applicable) 2021	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Provided Quality Assurance Representatives (QAR's) at every discipline level on multi-shift oversight in the El Paso/Yuma Region, reporting to the Border Barrier PMO and its designated Resident Engineers (RE's) Work includes construction inspection, safety monitoring, RMS reporting, compliance to EM 385-1-1 and OSHA requirements (especially focused on barrier bracing and foundation curing). Review contractor pay requests and submittals as required/requested by RE's on a site-by-site basis for 60 miles of barrier. Cost: \$668M Fee: \$11.5M Role: Quality Assurance Representative			
<input checked="" type="checkbox"/> Check if project performed with current firm			
b.			
(1) TITLE AND LOCATION (City and State) Fort Bliss Expansion Program Construction Phase Service - El Paso, TX		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2013 CONSTRUCTION (If applicable) 2013	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: CPS facility types included Combined Brigade and Battalion Headquarters, Company Operations Facilities, Tactical Vehicle Maintenance Facilities, Deployment Storage Buildings, Housing, Dining Facilities, Medical and Dental Clinics, AAFES Facilities, Training Facilities, a Physical Fitness Center and other Community Facilities. Performed professional services, master planning and project planning, and program and construction management. Assignments included program/project management; quality assurance; scheduling; project controls, and on-site oversite and surveillance. Cost: \$4.8B Fee: \$521K Role: Quality Assurance Representative			
<input checked="" type="checkbox"/> Check if project performed with current firm			
c.			
(1) TITLE AND LOCATION (City and State) TFC Program Management Services for Texas Border Infrastructure - Texas		(2) YEAR COMPLETED PROFESSIONAL SERVICES Ongoing CONSTRUCTION (If applicable) Ongoing	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: After the Disaster Declaration, \$250 million was reallocated from the current budget as "a down payment to launch construction of a Southern Texas border wall." Program development is ongoing, and our team is playing a key role in facilitating the Program's final composition. Planning and programming of the Texas Border Wall including developing the total program and individual project budgets, options, and recommendations for the most effective and efficient wall alignment, with locations for supporting infrastructure including access roads for maintenance and patrols, gates, infrastructure for monitoring equipment. Cost: \$250M Fee: \$8.9M Role: Quality Assurance Representative			
<input checked="" type="checkbox"/> Check if project performed with current firm			
d.			
(1) TITLE AND LOCATION (City and State) Physical Science Laboratory - New Mexico State University - New Mexico		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2015 CONSTRUCTION (If applicable) 2015	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Scope: Performed quality assurance on various mechanical, plumbing and electrical projects to ensure all work was performed in accordance with applicable codes, project plans and required specifications. Performed preventive and scheduled maintenance on various systems and equipment. Carefully monitor and inspect all materials and workmanship to insure adherence to all contract requirements. Monitor job-site safety on a continual basis. Involved in overseeing various government contracts including: High Security Data Communication Labs for NASA – Houston TX; New Mexico Spaceport Rocket Launch Building; Classified High Security area for the Department of Defense; Federal Government Battle Simulation Conference Room; Unmanned Plane project at New Mexico State University Airport facility; 125 KVA generator UPS system for security backup and control access systems; Underground utilities systems, new and replacement-White Sands Missile Range; Solar operated lab trailers for White Sands Missile Range; and Upgrades-mechanical/electrical equipment-White Sands Missile Range Hospital. Cost: N/A Role: Quality Assurance Representative			
<input checked="" type="checkbox"/> Check if project performed with current firm			
e.			



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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Nathan Turner	13. ROLE IN THIS CONTRACT Scheduler	14. YEARS EXPERIENCE a. TOTAL 15	
15. FIRM NAME AND LOCATION (City and State) MHZ JV New Orleans, LA		b. WITH CURRENT FIRM 5	
16. EDUCATION (Degree and Specializing) Associate of Science, Computer Science, San Jacinto College - 2007	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) N/A		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Mr. Turner has 15 years of experience in scheduling, coordination, program control, and construction management. He produces quality schedules and reports which drive accurate program planning and enables strategic partnerships with other government entities through organized data analytics, transparency, and adaptability. Mr. Turner's strengths lie in program scheduling, data analysis, project coordination, network analysis and submittal procedures. Mr. Turner is certified in Primavera P6 versions 19.2, 17.4, 16.2, 8.0, 7.1, 6.1 and 5.0 (Advanced).			
19. RELEVANT PROJECTS			
(1) TITLE AND LOCATION (City and State) HSDRRS Program Management and Scheduling, New Orleans, LA – USACE New Orleans District		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2018	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE a. Scope: Task Order scope included the performance of scheduling and earned value tracking of over 300 renovation projects, including levees, floodwalls, armoring, existing pump-stations, permanent pump stations, engineering design, and milestone reporting for the 14.8B Hurricane and Storm Damage Risk Reduction System (HSDRRS) program using Primavera P6 project scheduling software. Mr. Turner served as the lead scheduler on the task order, he was responsible for developing and updating resource loaded schedules to accurately track program cost, providing critical path project scheduling, and was also responsible for creating and implementing templates for use by USACE Project Managers and all program schedulers to utilize when building new schedules. Fee: \$600K Role: Scheduler		(2) YEAR COMPLETED CONSTRUCTION (If applicable) 2020	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE b. Scope: Task Order scope included the performance of scheduling and earned value tracking for the \$2B BBA 18 new construction program using Primavera P6 project scheduling software. Mr. Turner served as the lead scheduler on the task order, he was responsible for developing and updating resource loaded schedules to accurately track program cost, providing critical path project scheduling, and was also responsible for initiating recurring tag-ups with new project managers to ensure clear communication within the project delivery team and performing root cause analyses to identify causes of program cost differences between various USACE applications. Fee: \$1.2M Role: Scheduler		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2020	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE c. Scope: Scheduling and Project Management (in-house) personnel in support of the \$2.4B joint infrastructure recovery roads FEMA program in the City of New Orleans. Scheduling support responsibilities included tracking all program and project costs from conception through closeout and building and maintain over 600 project schedules which enabled department leaders and project managers to evaluate the status and report project and program updates to FEMA. Mr. Turner was the lead scheduler for the project. He built, edited, and maintained all project schedules, worked with the project managers to resource load the schedules, and trained other schedulers on how to utilize Primavera P6 for the program. Fee: \$876K Role: Scheduler		(2) YEAR COMPLETED CONSTRUCTION (If applicable) 2018	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE d. Scope: The project assignment was to update the Primavera system within an existing facility and program to lead the in-house team through planning, testing, and rollout phases of the new Primavera system. Tasks included migrating over 300 renovation projects into the new scheduling environment, training in-house personnel on the new system, and designed and tested all systems after gaining an understanding of existing processes and system requirements. Mr. Turner was the lead scheduler for the project, he was responsible for the project migration, development of manuals after performing technical reviews of the policy and procedure documentation, and testing the financial system, cost management system and estimating tool for accuracy. Fee: \$390K Role: Scheduler		(2) YEAR COMPLETED PROFESSIONAL SERVICES 2016	
		(2) YEAR COMPLETED CONSTRUCTION (If applicable) 2018	
<input checked="" type="checkbox"/> Check if project performed with current firm			

PART I, SECTION F





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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

21. TITLE AND LOCATION (City and State)

Mississippi River and Tributaries (MR&T-C/I), Floodplain Management Services (FPMS),
& EPA Investigations Construction Management Support Services - New Orleans, LA
Contract No: W912P819D0011, TO: W912P820F0182

20. EXAMPLE PROJECT KEY NUMBER

1

22. YEAR COMPLETED

PROFESSIONAL SERVICES

2020

CONSTRUCTION (If applicable)

2021

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER

USACE New Orleans District

b. POINT OF CONTACT NAME

Nick Sims, Assistant Deputy District Engineer

c. POINT OF CONTACT TELEPHONE NUMBER

225-219-5708

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Our team supported the USACE New Orleans District with program and project management support for efforts related to the water resources program in south Louisiana, including the Mississippi River and Tributaries (MR&T), Mississippi River Levee Construction (MRL-C), MRL Investigations Account (MRL-I), Bi-partisan Budget Act of 2018 (BBA 18) projects and Floodplain Management Services Program.

We supply six (6) full-time personnel that sit onsite at the MVN district office in New Orleans. These six personnel are comprised of five (5) Project Managers and one (1) Primavera scheduler. Services rendered by our staff consist of onsite project management, onsite administration support, onsite assistance and guidance to field offices, onsite review of NAS schedules and Quality Control plans, and onsite review of contract documents and submittals.

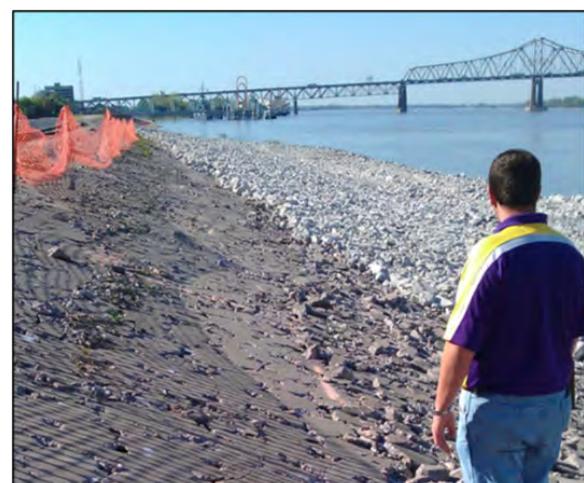
Specifically, our staff members are responsible for supporting the MVN Project Managers with the execution of projects, milestones, schedules, and budgets within the programs listed here within. Our staff are responsible for gathering available information concerning the performance of individual design and construction projects and reporting the findings of the information gathered, along with guidance, advice, and recommendations to MVN Senior management, enabling them to make risk-informed decisions on advancing each project.

For our project management analysis and support tasks, our Project Managers provide expert level analysis and project management consulting services for the development and implementation of systems and metrics to gauge performance (quality, schedule, budget, safety, acquisition planning, etc.) during all phases of the programs. Specific responsibilities include management of the development of plans and specifications, establishment and management of systems to track total project costs and current project schedules, change management support and vertical team reporting.

For our programmatic and scheduling support tasks, our Scheduler has been responsible for working with our Project Managers and MVN project managers to develop and maintain Oracle-Primavera schedules by loading specific activities and resources to produce CPM Network views, bar chart views and tables that depict project and program status. Our scheduler has also been responsible for maintaining and updating schedules on a weekly basis to maintain P2 data quality including price per unit issues, activities riding the data date, missing cost account information, open resources with minimal funding, data dates greater than 30 days, and bow wave analysis.

Relevancies

- USACE Task Order
- Located in LA
- Completed Since 2016
- Fee Over \$1M
- Civil Works
- New Construction (> 20K SF)
- Renovation (> 20K SF)
- Multiple Site Greater Than 5 mi. Apart
- MII Cost Estimates
- 100% of Fee



Size:

Total Fee:

Offeror's % of Work: 100%

	JV	JV Partner	Subs
Fee	\$2,000,000	\$0	\$0

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
	MSMM Engineering	New Orleans, LA	Prime: Onsite Project Management, Onsite Administration Support



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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

21. TITLE AND LOCATION (City and State)

Fort Bliss Hospital Construction Phase Services | El Paso, Texas
Contract No: W9126G-11-D-0016, TO 0017

20. EXAMPLE PROJECT KEY NUMBER

2

22. YEAR COMPLETED

PROFESSIONAL SERVICES
2020

CONSTRUCTION (If applicable)
2021

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER

USACE Fort Worth District

b. POINT OF CONTACT NAME

Peter Matar

c. POINT OF CONTACT TELEPHONE NUMBER

817-312-6483

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Provided 100% of the CPS personnel required for this complex medical construction project. Services included **RMS, construction oversight, quality assurance**, management of project documentation, review and response development of construction submittals and RFI's, ASI reviews, change management, development of daily reports, performance of schedule analysis, oversight of construction contractor performance, and **construction phase engineering services**.

Project Overview: The Fort Bliss Hospital Program Office and USACE SWF delivered a replacement hospital of 1.13M square-foot world-class state-of-the-art medical campus. The \$996M program includes a 7-story hospital tower with 135 beds, 387K SF of clinic towers plus a Clinical Investigation Building (CIB), a central utility plant, a 144K SF administration building, 250 acres of new infrastructure, a helipad, two access control points, and a bridge connecting to the state highway system. The 28,000 SF Central Utility Plant (CUP) includes domestic water utilities and pumps, electrical switches and switchgear, 4 backup emergency generators and fuel tanks, boilers and chillers with cooling towers, and office space. The CUP provides all necessary water, heating, cooling, and building control systems via extensive utility tunnel systems to the entire campus. The remainder of the program, including the Hospital Tower, Clinic, and CIB had beneficial occupancy starting in 2021.

Project Scope: Provided CPS support for the Fort Bliss Hospital Program Office under a single task order that includes a one-year base period of performance with four option years. The services included a broad range of engineering and construction activities including technical assistance to the Hospital Office, **construction administration support, quality assurance inspection and daily reporting** in the RMS review of contract documents and shop drawings, review of the construction contractors schedules and quality control plans, and investigation and reporting of the construction contractors claims. We provided **27 full-time, on-site field and office personnel integrated with the USACE staff** to deliver construction quality assurance for the entire program including the infrastructure and CUP.

Our team **provided specialized healthcare and hospital expertise** to the USACE Hospital Office to assist in specific issues related to the construction of BSL3 labs, operating rooms, level 5 architectural finishes, construction methods related to infectious disease control, vivarium and LEED for Healthcare reviews. Our healthcare architects were responsible for periodic visits to the site to review documents, observe construction and provide input to the field team. They also provided professional assistance to the Resident Engineers on healthcare, life safety, commissioning, code and federal regulation issues.

The 27 personnel completed the **USACE Construction Quality Management (CQM)** for Contractors training, **OSHA 30 hour training**, and the 4 hour CMPII Orientation and Safety Course. Several personnel completed the **Comprehensive Managed Fall Protection Program** as well. Full-time on-site personnel included Interdisciplinary Project Engineers, Office Engineers, Civil Engineers, Architects, Mechanical Engineers, Commissioning Specialist, Electrical Engineers, Quality Assurance Personnel, Cost Estimators, Fire Protection Engineers, and Construction Schedulers. The on-site staff included a single point of contact staff who reports directly to the USACE Construction Manager on staffing issues, field personnel changes, and administrative activities and personnel issues. This allowed our team to quickly make changes to adapt to new program needs and rapidly staff all assigned positions.

Size: 1.13M SF, 27 Full Time Personnel

Total Fee: \$17,920,738

Offeror's % of Work: 99.7%

Relevancies

- USACE Task Order
- Located in TX
- Completed Since 2016
- Fee Over \$1M
- New Construction (> 20K SF)
- Renovation (> 20K SF)
- MII Cost Estimates
- 99.7% of Fee



	JV	JV Partner	Subs
Fee	\$17,864,794	\$55,944	\$0

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Huitt-Zollars, Inc.	(2) FIRM LOCATION (City and State) Fort Worth, Texas	(3) ROLE Task Management and Full-Service A-E



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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

21. TITLE AND LOCATION (City and State)

Project Management, Construction Management and Quality Assurance Support for the Coastal Wetlands Planning, Protection, and Restoration Act (CWPPRA) | New Orleans, LA
Contract No: W912P819D0011 TO: #W912P820F0148

20. EXAMPLE PROJECT KEY NUMBER

3

22. YEAR COMPLETED

PROFESSIONAL SERVICES

2020

CONSTRUCTION (If applicable)

2021

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER

USACE New Orleans District

b. POINT OF CONTACT NAME

Bobby Duplantier, Project Manager

c. POINT OF CONTACT TELEPHONE NUMBER

504-862-1037

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Supporting the USACE New Orleans District, our team provided project management, construction management and quality assurance support for the Coastal Wetlands Planning, Protection and Restoration Act (CWPPRA), a federal program enacted in 1990 designed to identify, prepare, and fund construction of coastal wetlands restoration projects. Led by USACE, the CWPPRA program is comprised of five (5) Federal agencies, and the State of Louisiana. Our team provided this support at the Program and Project level, supplying two full-time staff who sit at the New Orleans District USACE office, and are dedicated to this program thru the issuance of yearly task orders.

Our staff member responsibilities consisted of onsite assistance and guidance to USACE field offices, onsite project management, onsite administration support, onsite review of contract documents and submittals, onsite interpretation of plans and specifications, onsite evaluation of construction progress, and upward reporting of CWPPRA program and project progress to the district, executive office and the Mississippi Valley Division (MVD) personnel tasked with monitoring the program.

Our team personnel serve as the main points of contact between the technical team developing and designing the project features from each of the Federal agencies and the overarching Task Force committee that administers the program. Our project management personnel provide the daily management of the individual projects in the design (approximately 8 projects per fiscal year) and the construction phase (approximately 4 projects per fiscal year). Each of our personnel is assigned to a phase of the project, with our construction PM serving as the field rep for the program, reporting construction progress, working on interpretation of plans and specifications with the USACE area office, handling contractor claims and change orders, and overseeing construction schedules.

Additionally, our design PM is responsible for the onsite management of the program from a P2 scheduling perspective, while providing overall administration support (inclusive of funding allocations) to the program. Other responsibilities include upward reporting of program progress, management of scheduling milestones and development of annual Priority Project Lists.

Relevancies

- USACE/SWF Task Order
- Fee Over \$300K
- Civil Works
- New Construction (> 20K SF)
- Renovation (>20K SF)
- Located in LA
- 100% of Fee



Size:

Total Fee:

Offeror's % of Work: 100%

	JV	JV Partner	Subs
Fee	\$540,000	\$0	\$0

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME MSMM Engineering	(2) FIRM LOCATION (City and State) New Orleans, LA	(3) ROLE Prime: Onsite Project Management, Construction Management and Quality Assurance
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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

21. TITLE AND LOCATION (City and State)

Engineering, Technical & Quality Assurance for Eastern Area Office, Central Texas Area Office, Fort Bliss Hospital Office, South Texas Area Office & Southwestern Area Office | Texas & Louisiana, Contract No: W9126G-11-D-0016; TO 0015

20. EXAMPLE PROJECT KEY NUMBER

4

22. YEAR COMPLETED

PROFESSIONAL SERVICES

CONSTRUCTION (If applicable)

2017

2017

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER

USACE Fort Worth District

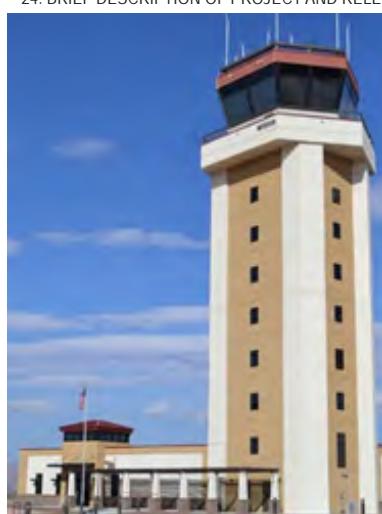
b. POINT OF CONTACT NAME

Cortney Dickmann, PMP

c. POINT OF CONTACT TELEPHONE NUMBER

817-886-1704

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)


Provided construction Quality Assurance Representatives, Civil Engineering Technicians, Registered Mechanical and Electrical Engineers, Fire Protection Engineers and Schedulers at Fort Polk, Barksdale AFB, Fort Hood, Fort Sam Houston, Lackland AFB, and Fort Bliss. The \$3.1M task order provided 17 personnel for 18-months. Some of the projects supported include East Area: \$4.2M Youth Gym Renovation, \$21.6M Building Renovations, \$45M Volar Barrack; Central Texas Area: \$75M Volar Barracks and \$54M JOC Program; Fort Bliss Hospital Office: \$900M Replacement Hospital; South Texas Area: \$62M Lackland Ambulatory Care Center, \$5.8M JBSA Fire Station; \$38M Reid Clinic Replacement; Southwest Area: \$11.6M Air Traffic Control Tower, \$15M SRM Program.

Relevancies

- USACE Task Order
- Located in TX
- Completed Since 2016
- Fee Over \$1M
- New Construction (> 20K SF)
- Renovation (> 20K SF)
- Multiple Site Greater Than 5 mi. Apart
- MII Cost Estimates
- 83.4% of Fee

The Quality Assurance and Engineering personnel provided construction oversight and inspection following the USACE 3 Phase Inspection System. They were responsible for daily construction oversight to ensure the contractors were delivering projects in compliance with construction plans and specifications. They were responsible for responding to RFIs, submittal reviews, daily project reporting, documentation of activities, logging and inspections into Resident Management System. Other activities include daily communication and coordination of activities, contractor/vendor activity coordination and warranty support. QAs also perform independent assessments of the Contractors Quality

Control (CQC) system plan and field implementation and report deficiencies, and ensure QA verification tests are performed and documented. Services also included review of as-built drawings, monitor contractor submittal register, review of shop drawings, and incorporating changes and modifications.

The full-time on-site construction scheduler was experienced with Primavera P6 and reported to Fort Bliss. He was responsible for reviewing and analyzing the contractor schedules for cost loading requirements and critical path method construction logic for the replacement hospital. The complex construction schedule included over 18,000 individual activities. He reviewed schedules for approved practices while focusing on constraints, calendars, and naming conventions etc. He was responsible for reviewing contractor monthly pay requests based on critical path activities worked versus out of sequence work.

A licensed fire protection engineer from Garabedian Associates was assigned to Fort Sam Houston and Lackland AFB projects. He was responsible for quality pre-design conferences, design reviews, and warranty inspections for fire protection/life safety design. He participated in quality assurance efforts, shop drawing review and approval, preparatory inspections, operational tests, and building commissioning for fire protection/life safety systems. In addition, registered mechanical and electrical engineers from and our team and our subconsultant Building Team Tech were provided for quality inspection and construction modification estimating on for the Ambulatory Care Center and Reid Clinic Replacement. The mechanical engineer also participated in oversight of the commissioning activities for these medical facilities.

Size: 17 Full Time Personnel

Total Fee: \$3,089,133

Offeror's % of Work: 83.4%

	JV	JV Partner	Subs
Fee	\$2,576,129	\$10,100	\$502,904



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Huitt-Zollars, Inc.	Fort Worth, TX	Prime
b.	Building Team Tech	San Antonio, TX	Sub - Mechanical & Electrical Engineering
c.	Garabedian Associates	San Antonio, TX	Sub - Fire Protection Engineering



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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

21. TITLE AND LOCATION (City and State)

Quality Assurance (QA) Support and Construction Project Scheduling Support for

Task Force Barrier | El Paso, TX/Yuma, Arizona

Contract No: W912P718D0006; TO W912P719F0026

20. EXAMPLE PROJECT KEY NUMBER

5

22. YEAR COMPLETED

PROFESSIONAL SERVICES

2021

CONSTRUCTION (If applicable)

Ongoing

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER

USACE San Francisco District

b. POINT OF CONTACT NAME

Mary Fronck

c. POINT OF CONTACT TELEPHONE NUMBER

415-503-6554

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Our team served the US Army Corps of Engineers (USACE) for program management services in connection with the Border Barrier Program's construction phase services for three sectors and provided program (P6) master scheduling under multiple task orders. These task orders primarily supplied the Construction Inspectors in three regional teams reporting to USACE's Area Engineers. This project description is for the task order related to services on border wall construction in the El Paso TX/Yuma AZ sectors. Our contract as well as the construction projects have all stopped work due to the President's executive order to terminate all border construction on 1/21/21. The third option year was not awarded in August of 2021 and the teams have been removed from the site as of March 2021.

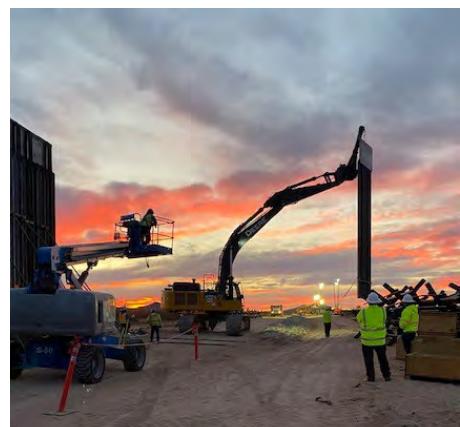
Our program-level management support services included assistance with contract reporting requirements, Construction Inspector recruiting, staff security vetting through CBP, mobilizing Inspectors for deployment and Risk Management of construction-related activities. Additional required services included quality assurance inspection and reporting in RMS, review of contract documents and drawings for quality conformance in construction, and review of schedules, quality control plans and contractor's safety plans.

Our team had a full-time total staff of 9 Construction Management personnel deployed in the three affected sectors. We were recruiting to add an additional 6-8 personnel to fully staff new night shifts on the El Paso sectors when the Stop Work Order was received from the new Administration. Our field teams were assigned on a regional basis and were led by a Senior Construction Manager who was responsible to USACE's Area Manager for coordinating each team's staffing, shifts and quality of deliverable on daily reporting. The task order covered construction QA inspection of approximately 60 miles total of border barrier in two different regional sectors. Some teams were on 6-day double shifts covering both day and night. Daily Field Reports were the critical deliverable and the primary responsibility of each Inspector. Our field team developed a flexible approach to take into account the different reporting requirements employed by each Area Engineer, on a sector-by-sector basis. There are instances we input daily reports into USACE's RMS database. In other locations, we reported on daily statistical data to the Area Engineer for compilation into the daily log for RMS. Remote sites challenged wireless connectivity for reporting and communicating. In many instances, we provided our teams with Wi-Fi hot spots and signal boosters and they work on computer pads to communicate and issue report information and their trucks act as a mobile office. Our field teams were also tasked with the inspection of the construction contractors' work, on-site plant (when required), material and equipment, and methods. Inspections provided the government with recommendations as to whether the contractors are in full compliance with contract document plans, specifications and OSHA requirements. This is also included in the RMS daily reports.

Other activities included daily communication and coordination of activities, and contractor/vendor activity coordination. The Inspectors perform independent assessments of the contractors' Construction Quality Control (CQC) system plan and field implementation and report deficiencies to the Area Engineers. Services also included, review of as-built drawings, monitoring contractor's submittal register, review of shop drawings, incorporating changes, modifications, requests for information (RFI's), and clarifications. Budget optimization was approached by input into change management processes under our field inspection services. Our CM role over the Construction Contractor involved defending the Government from Change Orders or potential claims. As an innovation beyond anything cited in our scope of services we utilized the Contractor's aerial progress photos from reports and tagged those into GIS files by coordinates. We then added notes on deficiencies, non-compliance constructability issues, etc. This format was plotted onto long sheets much like highway plans but with the photos and notes for display. Once the Contractor was faced with the documentation of this data in such a digitally organized fashion they agreed to immediately address deficiencies and dropped the majority of items that were initially proposed as Change Orders thereby positively impacting quality, cost and schedule (time) control.

Relevancies

- USACE Task Order
- Located in TX
- Completed Since 2016
- Fee Over \$1M
- New Construction (> 20K SF)
- Multiple Site Greater Than 5 mi. Apart
- 86.2% of Fee



Primarily, our field teams were responsible for compliance with contract plans, specifications, EM 385-1-1 and OSHA requirements. Engineering Manual 385-1-1 was a particular focus because we were challenged with safety, quality control and monitoring issues related to a few sporadic safety-related barrier events. Dust control became a major environmental compliance, safety and local jurisdiction audit issue. The State of New Mexico sent inspectors to audit environmental conditions twice a week. Our Construction Inspection team worked this quality compliance issue continually with the General Contractor. Securing water for this process became an issue in some locations. Our Inspectors were seen by private landowners as neutral parties and would coordinate access to private landowner's water wells and adding meters for compensation in order to maintain construction activities and schedule.

Size: 60 Miles, 9 Full Time Personnel

Total Fee: \$13,446,775

Offeror's % of Work: 86.2%

	JV	JV Partner	Subs
Fee	\$2,576,129	\$10,100	\$502,904

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a. (1) FIRM NAME
Huitt-Zollars, Inc.

(2) FIRM LOCATION (City and State)

Fort Worth, TX

(3) ROLE
Program Management



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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

21. TITLE AND LOCATION (City and State)

Fort Bliss Expansion Program Construction Phase Service | El Paso, Texas
Contract No: W9126BV-09-D-2008, Task Order DY12

20. EXAMPLE PROJECT KEY NUMBER

6

22. YEAR COMPLETED

PROFESSIONAL SERVICES
2012

CONSTRUCTION (If applicable)
2013

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER

USACE Fort Worth / Tulsa Districts

b. POINT OF CONTACT NAME

Norma Edwards

c. POINT OF CONTACT TELEPHONE NUMBER

817-307-5897

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

This task order represents one month of field staff support for the Fort Bliss Expansion Program. Our team performed professional services, program and construction management for SWF as the Land Development Engineering from 2006 to 2013. The \$4.8B program represents a major MILCON program encompassed 5,500 acres of projects including more than 300 facilities, totaling 11M SF to accommodate the relocation of the 1st Armored Division. Facility types delivered include all major infrastructure, Division Headquarters, Combined Brigade/Battalion Headquarters, Company Operations Facilities, Tactical Vehicle Maintenance Facilities, Deployment Storage Buildings, Housing, Dining Facilities, Medical and Dental Clinics, AAFES Facilities, Training Facilities, a Physical Fitness Center and other Community Facilities. USACE utilized several IDIQ contracts to supplement their existing field staff issuing over the 7-year program.

Assignments included program/project management; quality assurance; scheduling; project controls, and on-site inspection. At the peak of construction, the team delivered over \$20 million of in-place construction per week for nearly 18 months. This task order represents one of over 20 CPS task orders utilized by USACE on six IDIQ contract to augment their existing field staff with personnel ranging from project engineers, cost estimators, contract specialists, technical review staff, embedded project managers and QARs. This task order was for a total of 43 professional engineers and construction inspectors from 1 April 2011 to 30 April 2011. The task order was a continuation of existing field staff provided to the Fort Bliss Program for over 6 years. As part of the Field Support Services on this task order, we provided 43 full-time personnel. Our staff consisted of 4 Senior Project Engineers, 3 Registered Civil Engineers, 2 Registered Mechanical Engineers, 2 Registered Electrical Engineers, 4 Engineer Technicians, 12 Senior Quality Assurance Inspectors, 10 Administrative Assistance and 6 Pay Roll Clerks. The on-site professional staff reported to the resident offices and reported to the Area Engineer and Resident Engineers. The Project Manager was responsible for providing monthly status reports to the Fort Worth District Project Manager.

Our field services team members were trained to enforce the USACE 3 Phase Inspection System (Preparatory, Initial, and Follow-up Inspections). They were responsible for day-to-day construction oversight and inspections of construction to determine compliance with contract documents, including daily project reporting and documentation of activities and inspections into the Resident Management System (RMS). Other activities included daily communication and coordination of activities, contractor/vendor activity coordination and warranty support. The QA inspectors performed independent assessments of the construction Contractors Quality Control (CQC) system plan and field implementation and reported deficiencies to the Resident Engineers. Services also include review of as-built drawings, monitor contractor submittal register, review of shop drawings, incorporating changes, modifications, Requests for Information (RFIs) and clarifications.

There were several construction safety hazards, with over 660 prime contractors and subcontractors working on horizontal and vertical construction. Sequencing of events and communication was extremely important to not only meet deadlines, but also for safety concerns. Our team worked closely with USACE to ensure safety is #1. All field personnel were OSHA 10-hour safety trained and are knowledgeable in the USACE, EM385-1-1.

Size: 11M SF, 43 Full Time Personnel

Total Fee: \$521,489

Offeror's % of Work: 100%



	JV	JV Partner	Subs
Fee	\$521,489	\$0	\$0

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Huitt-Zollars, Inc.	(2) FIRM LOCATION (City and State) Fort Worth, TX	(3) ROLE Prime - Project Management & CPS Staff
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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

7

21. TITLE AND LOCATION (City and State)

Electrical and Fire Protection Engineering, Central Texas Area Office, Fort Hood Hospital Office & Fort Worth District Office | Texas
Contract No: W9126G-11-D-0016; TO 0014

22. YEAR COMPLETED

PROFESSIONAL SERVICES

2017

CONSTRUCTION (If applicable)

2017

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER

USACE Fort Worth District

b. POINT OF CONTACT NAME

Ortney Dickmann, PMP

c. POINT OF CONTACT TELEPHONE NUMBER

817-886-1704

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

This project represents a single task order for 18 months of construction phase services at for multiple military construction projects. Our team on site personnel included a Registered Electrical Engineer and a Registered Fire Protection Engineer supporting the new Carl R Darnall Army Medical Center (CRDAMC) which was built to replace the 45-year old hospital building on Fort Hood.

The Design/Build Fort Hood Hospital Program included a 6-story 947K SF hospital tower with 122 beds, three stand-alone out-patient specialty clinic buildings, a central utility plant, and three parking garages on 70 acres. Additional construction projects supported by the personnel include the Fort Hood Volar Barracks \$75M, \$2.3M Youth Center Renovations, \$9.2M UAS Project, the \$900M Fort Bliss Replacement Hospital, \$97M Ambulatory Care Center at Lackland and \$35M Volar Barracks.

Relevancies

- USACE Task Order
- Located in TX
- Completed Since 2016
- New Construction (> 20K SF)
- Renovation (> 20K SF)
- Multiple Site Greater Than 5 mi. Apart
- 98.9% of Fee

The on site electrical engineer assisted the Fort Hood Hospital Office with contract modifications, progress payments, daily construction inspections and RFIs utilizing the Resident Management System (RMS). The electrical engineer worked with USACE's team in evaluations of the contractors submittals and performed design reviews of the specifications and drawings to help verify compliance with the CRDAMC RFP, UFC's, and applicable codes and standards. Routine construction observations of the Hospital, Clinic and CUP's electrical systems included life safety, critical equipment and electrical branches. He was responsible for reviewing the special systems including as the nurse call, radio paging, emergency medical, public address and radio frequency distribution. He performed on site construction observations of the CCTV, duress systems, infant protection systems and copper and fiber optic telecommunications systems installations.

The Fire Protection Engineer resided in the Construction Branch at the Fort Worth District reporting to the section chief and was responsible for fire protection reviews and contract modifications related to the fire protection and life safety scope of work for projects throughout the Southwest Division. He traveled to Fort Bliss, Fort Hood, Lackland, and Fort Polk to assist the USACE resident offices with specialized fire protection and life safety expertise working with design teams and construction contractors.

We also provided a Project Manager as the single point of contact and liaison with the USACE offices. The Project Manager's responsibilities included all staffing and contract negotiations, communications with the USACE PM's and Resident Engineers on the personnel's monthly activities as well as tracking and coordinating all expenses for travel.

Size: 2 Full-Time Personnel

Total Fee: \$466,271

Offeror's % of Work: 98.9%

	JV	JV Partner	Subs
Fee	\$461,227	\$5,044	\$0



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a. (1) FIRM NAME
Huitt-Zollars, Inc.

(2) FIRM LOCATION (City and State)
Fort Worth, TX

(3) ROLE
Prime - Project Management & CPS Staff



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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

21. TITLE AND LOCATION (City and State)

Construction Quality Assurance Assistance, Southwest Area Office (SWAO) Sites |
Multiple Locations, Texas & New Mexico
Contract No: W9126G-11-D-0016; TO 0016

20. EXAMPLE PROJECT KEY NUMBER

8

22. YEAR COMPLETED

PROFESSIONAL SERVICES
2017

CONSTRUCTION (If applicable)
2017

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER

USACE Fort Worth District

b. POINT OF CONTACT NAME

Cortney Dickmann, PMP

c. POINT OF CONTACT TELEPHONE NUMBER

817-886-1704

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

The Southwest Area Office located at El Paso, Texas supports construction projects across Fort Bliss, White Sands Missile Range (WSMR) and the Fort Bliss Hospital. The mission included projects across 1M acres of tactical ranges as well as on Fort Bliss and WSMR installations.

Our team provided construction quality assurance assistance for the Southwest Area Office (SWAO) at Fort Bliss and White Sands Missile Range. The team provided two personnel on a one-year contract period. The period of performance includes two option periods for the construction quality assurance representatives (QARs). One QAR were located at Fort Bliss and the other is at the WSMR field office.

The QARs report to the Area Offices at Fort Bliss and White Sands, reporting to the Area Engineer. The QAR assigned to Fort Bliss construction projects was responsible for providing daily quality inspections for the control tower and medical facility repair projects in addition to other ongoing construction. The QAR who reported to the WSMR field office made daily site visits to Dona Ana to observe the construction of the combat trail.

Our personnel provided inspection of work in place, and review of the construction contractor's submittals, offered opinions and made recommendations to the appropriate USACE personnel as to whether work is in full compliance with the contract plans and specifications. The QARs report information was included as part of their daily report of surveillance activities in the USACE Resident Management System (RMS) for each project. Reports were entered into RMS and submitted via email to the appropriate project engineer daily. They were responsible for safety reviews of contractor's on-site plant, materials and equipment, provided inspection of the contractor's on-site plant (storage yards and temporary facilities), materials and equipment, and provided an opinion or recommendation to the USACE project engineers as to whether they are in full compliance with contract plans, specifications, EM 385-1-1 and OSHA requirements.



Relevancies

- USACE Task Order
- Located in TX
- Completed Since 2016
- New Construction (> 20K SF)
- Renovation (> 20K SF)
- Multiple Site Greater Than 5 mi. Apart
- 97.5% of Fee

The QARs provided technical support to USACE that included reviewing construction contractor pay requests to provide an opinion or recommendation as to whether the pay requests accurately reflect the percentage of construction accomplished during the period covered by the pay request. They quickly processed construction contractor submittals, provided estimates and schedules, and provided recommendations on how to correct deficiencies. As part of the contract requirements, we provided a single point of contact for the SWF project manager to discuss staffing needs and corrective actions to help ensure the team remains in compliance with contractual and legal requirements. The team is also reinforced with administrative support to help make certain the team is not only integrated with USACE.

As part of the contract requirements, each team member provided a monthly progress report of activities to the SWF contract manager in Fort Worth and the project manager provides quarterly updates in person to the USACE contract manager to ensure the personnel is performing to the contract and the needs of the Area Office. The contract PM made periodic visits to SWAO to validate the staff performance with USACE as well as to interface with the field personnel.

Size: 2 Full Time Personnel

Total Fee: \$676,089

Offeror's % of Work: 97.5%

	JV	JV Partner	Subs
Fee	\$659,187	\$16,902	\$0

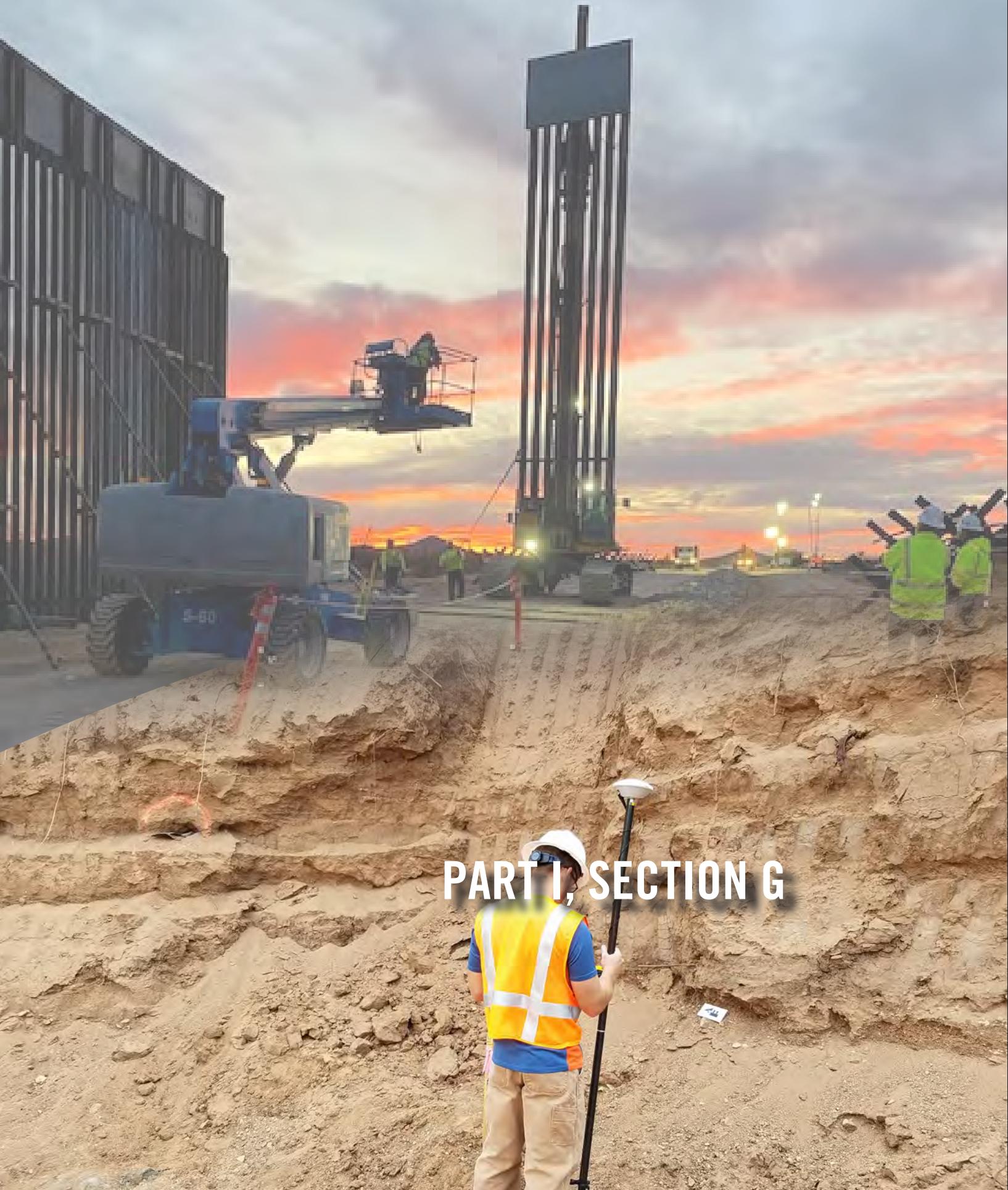
25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a. (1) FIRM NAME
Huitt-Zollars, Inc.

(2) FIRM LOCATION (City and State)
Fort Worth, TX

(3) ROLE
Prime

PART I, SECTION G





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G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS

26. NAMES OF KEY PERSONNEL <i>(From Section E, Block 12)</i>	27. ROLE IN THIS CONTRACT <i>(From Section E, Block 13)</i>	1	2	3	4	5	6	7	8
Manish Mardia, PE	Program Manager	X		X					
Bonnie O'Brien, SPHR	Human Resources (HR)/Staffing Professional		X		X	X	X	X	X
Jim Wilson, PE	Civil Engineer	X							
Gilbert Aragon, PE	Civil Engineer		X			X	X		
Bob Sims, RA, CQM	Architect		X		X	X	X		X
Lorena Holguin, AIA, LEED AP	Architect		X						
Harry Hawney, PE	Electrical Engineer								
Scott Parma, PE, LEED AP	Electrical Engineer		X					X	
Carlos Arguijo, PE, LEED AP, CxA, CQM	Mechanical Engineer		X						
Phillip Guajardo, PE, CxA	Mechanical Engineer		X			X	X		
Bob Yokum, PE	Structural Engineer							X	
William Wallace, PE, SECB	Structural Engineer		X					X	
Chris Scott, RLA, ASLA, CNU-a	Landscape Architect							X	
Stephen Richards, PE	Geotechnical Engineer								
Marty Tittlebaum, PE	Environmental Engineer	X							
Janice McLean	Archaeologist								
Rob Armstrong, PE, CFM	Hydraulic Engineer		X					X	
Andre Garabedian, FPE	Fire Protection Engineer					X			
Don Daigle, CVS, CPE	Cost Estimator	X							
Dani Alexander	Quality Assurance Representatives	X		X					
Aurelio Paez, CQM	Quality Assurance Representatives		X			X	X		
Channing Brown III, CQM	Quality Assurance Representatives		X			X	X		
Gabe Mercado, CQM	Quality Assurance Representatives		X			X	X		
Bobby Lucero, CQM	Quality Assurance Representatives		X			X	X		
Nathan Turner	Scheduler	X		X					

29. EXAMPLE PROJECTS KEY

NO.	TITLE OF EXAMPLE PROJECT <i>(From Section F)</i>	NO.	TITLE OF EXAMPLE PROJECT <i>(From Section F)</i>
1	Mississippi River and Tributaries (MR&T-C/I), Floodplain Management Services (FPMS), & EPA Investigations Construction Management Support Services - New Orleans, LA	5	Quality Assurance (QA) Support and Construction Project Scheduling Support for Task Force Barrier El Paso, TX/Yuma, AZ
2	Fort Bliss Hospital Construction Phase Services El Paso, TX	6	Fort Bliss Expansion Program Construction Phase Service El Paso, TX
3	Project Management, Construction Management and Quality Assurance Support for the Coastal Wetlands Planning, Protection, and Restoration Act (CWPPRA) New Orleans, LA	7	Electrical and Fire Protection Engineering, Central Texas Area Office, Fort Hood Hospital Office & Fort Worth District Office TX
4	Engineering, Technical & Quality Assurance for Eastern Area Office, Central Texas Area Office, Fort Bliss Hospital Office, South Texas Area Office & Southwestern Area Office TX & LA	8	Construction Quality Assurance Assistance, Southwest Area Office (SWAO) Sites Multiple Locations, TX & NM



PART I, SECTION H & I

PART I,
SECTION H & I



US Army Corps
of Engineers

MATOC for A-E CPS for Military and Civil Works primarily for the Fort Worth District and within the Southwestern Division Area of Responsibility Unrestricted with a Small Business Reserve

January 4, 2022

H. ADDITIONAL INFORMATION

30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

INTRODUCTION

The prime A-E for this assignment will be MSMM Huitt-Zollars, A Joint Venture (MHZ). We are certified by the Small Business Administration as an approved Mentor-Protégé small business enterprise. The two partner firms comprising our Joint Venture are MSMM Engineering, LLC, headquartered in New Orleans, LA (and with Texas offices), and Huitt-Zollars, Inc., headquartered in Dallas, TX (and with several offices throughout the Southwest Division AOR). Both partner firms are full-service design and management firms specializing in military construction and civil works projects for USACE. Our combined resources offer the Fort Worth District a full-service team with a deep portfolio in Federal IDIQ contracts generally, and completed USACE task orders in Texas and Louisiana specifically.

Both firms have extensive USACE design, construction phase and program management experience in their own right, and as a team we are currently engaged with several USACE district offices in your AOR, including Galveston, Tulsa, New Orleans, and Albuquerque, in addition to our ongoing work with Fort Worth District. Our JV's multiple offices focus the bulk of our professional resources in the states of Texas and Louisiana, where both firms maintain a significant presence. And while it is true that we are both design firms with a full complement of technical disciplines in-house, we have also become one of the most trusted advisors to the SWF core mission of program and construction management of major capital programs.

We have always provided post-design services, including bidding assistance and construction phase services, to our customers as a value-added proposition with our design offering. But beginning with the Ft. Bliss program, we have also provided construction phase services (CPS) to you on projects designed by others—major projects, in many instances. At Ft. Bliss alone, we were part of a joint venture team that provided up to 130 on-site personnel in the field, at multiple construction sites on the installation, for a period of over 6 years. In addition, our management assistance services to USACE have included a diverse array of staff augmentation in support of USACEs' mission, both in the field and co-located in the office.

Together, we believe that we are a perfect match for you on this assignment because:

- ✓ Unparalleled track record with USACE/SWF over the last 15 years;
- ✓ Consummate success with major recent USACE programs, for both SWF and other district offices;
- ✓ Extensive portfolio of recent experience providing Construction Phase Services to USACE under multiple USACE IDIQ contracts;
- ✓ Concentration of resources primarily in the states of Texas and Louisiana; and
- ✓ Commitment of our most experienced team, led by Program Manager Manish Mardia, founding partner and President of MSMM Engineering. Manish has personally managed over 100 task orders for the USACE. In proposing Manish as Program Manager our JV is providing our most valued USACE asset to lead the team.

In short, if you hire us for this assignment, you will get a firm with a long-term, proven commitment to your mission, an unparalleled recent track record of accomplishment on a wide variety of major relevant assignments, and a team led by our most experienced managers and technical staff. As always, our team is dedicated to your success.

In addition, the prime A-E team will be complemented by specialists in several technical areas that together will meet all of your small business participation goals for the contract. Please refer to (f) Utilization of Small Business Firms below for an estimate of the participation of each of these firms against the goals for each category of Small Business anticipated under this contract.



Building Tech Team, LLC, San Antonio, TX, is a certified HUBZone firm and will provide MEP Engineering and Commissioning services.



Citadel Development Services, LLC, Austin, TX, is a SDVOSB firm and will provide Scheduling services.



ETTL Engineers and consultants, Inc., Tyler, TX, is a WOSB firm specializing in Geotechnical and Environmental Engineering, including soils testing, and construction materials testing.



Garabedian Associates, San Antonio, TX, is a SDB firm specializing in Fire Protection Engineering services.



JESCO Environmental and Geotechnical Services, Inc., a Jenner, LA consulting firm and a SDB and WOSB enterprise, will support our Environmental Engineering team primarily in the area of HTRW investigations and remediation, as required.



R. Christopher Goodwin & Associates, Inc. is a Small Business Enterprise headquartered in New Orleans, LA, and will provide an Archaeologist to the team as well as support in the area of cultural resources management, as required.



The Rios Group, Fort Worth, TX, is a WOSB firm specializing in Subsurface Utility Engineering (SUE) services.



Terrane Geotechnical Group Ltd., Chandler, AZ, is a WOSB specializing in Geotechnical Engineering services.



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Vernadero Group, New Orleans, LA, is a VOSB firm specializing in Environmental services, including regulatory compliance, specifically for NEPA, environmental site assessments, wetland permitting and mitigation planning, and hazardous waste management services.

Michael Baker
INTERNATIONAL

In addition to these small business firms, we will be joined by the firm of Michael Baker International (MBI), a national A-E practice of over 3,000 professional staff and frequent associate of the two JV partner firms that is currently engaged on 6-IDIQ contracts with our team. MBI will make its depth of resources available to the JV across the board in all of the technical disciplines, on an as-needed basis.

(a) SPECIALIZED EXPERIENCE AND TECHNICAL COMPETENCE

The eight projects featured in Section F of this document summarize some of our best, most relevant recent work. Presented below is a matrix that summarizes the specific areas of experience that each project has in relation to this contract:

Section F Projects	USACE Task Order	Texas/Louisiana Location	Completed Since 2016 ⁽¹⁾	Fee > \$1M ⁽²⁾	Civil Works	New Construction >20K SF	Renovation >20K SF	Multiple Sites > 5 mi. Apart	MII Cost Estimates
Mississippi River and Tributaries, FPMS, & EPA Investigations Construction Management Support Services	X	X	X	X	X	X	X	X	X
Fort Bliss Hospital Construction Phase Service	X	X	X	X		X			X
Project Management, Construction Management and Quality Assurance Support for the Coastal Wetlands Planning, Protection, and Restoration Act	X	X	X		X	X	X	X	X
Construction Phase Services for Multiple SWF Area Offices	X	X	X	X		X	X	X	
Quality Assurance Support for the Border Program El Paso/Yuma	X	X	X	X		X		X	
Fort Bliss Expansion Program Construction Phase Service	X	X		X		X	X	X	X
Electrical and Fire Protection Engineering SWF CTAO	X	X	X			X	X		
QA Services for SWF SWAO	X	X	X			X	X	X	

(1) All listed projects have fees over \$300K

(2) All listed projects were completed since 2011

However, it is difficult to describe all of our team's diverse experience with only these 8 project examples. Accordingly, provided below is additional material related to the relevant project experience of our JV members and our sub-consultant team.



H. ADDITIONAL INFORMATION

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A Case Study—Construction Management Support, Improvements of Specifications and Processes for Turf Establishment on Levees

Our team provided engineers, scientists, and quality assurance representatives with technical engineering and agronomy expertise to evaluate and develop solutions for turf establishment and vegetation maintenance of various levee and floodwall sections under construction. We took a holistic approach to engineer a solution by performing several engineering and agronomy studies, evaluating the materials, construction practices and long-term maintenance issues for the establishment of suitable vegetation. Our expertise was employed to support the USACE Armoring Program, one of the last features of the \$14.5B Hurricane and Storm Damage Risk Reduction System (HSDRRS) program throughout south Louisiana.

Our program management team led a multidisciplinary team of USACE and MSMM project managers, levee and geotechnical engineers, construction managers, and landscape architects to develop a new performance based USACE guide specification for turf establishment on levees and other civil works projects. We were also instrumental in the development of construction specifications for the High-Performance Turf Reinforcement Mats (HPTRM). HPTRMs were the chosen measure for armoring levees to assure resiliency during storm events. Our team provided specifications for all turf-related aspects of the HPTRM construction specifications. Our Professional Engineers, QARs and Subject Matter Experts were deployed to multiple locations to solve construction problems as they arose and refining procedures and quality assurance measures. During this period, our team also provided expert advice in the actual implementation of the HPTRM program and preparation of the updated O&M manual for HPTRMs.



QAR Support of the SWF/CBP Border Wall Program, Tucson Sector—This project was staffed and executed simultaneously with our work under different task orders from USACE San Francisco District for the El Paso/Yuma sector (Section F, Project #3) and the San Diego sector (see below). As with the other two task orders, we provided QAR staffing under our CPS IDC for construction oversight of 71 miles of Border Barrier. Construction award was \$1.29 B. This task order also included Management Support staff of a Senior Project Manager and Administrative Support on a part-time basis as office-based staff.

QAR Support of the SWF/CBP Border Wall Program, San Diego Section—Under this task order we provided QAR staffing under our CPS IDC for construction oversight of 135 miles of Border Barrier in three different regional sectors. Field staff comprised a total of 19 on-site construction management assist personnel. Construction award was \$84 M.

Scheduling Support of the SWF/CBP Border Wall Program—Under yet another task order under our CPS IDC with San Francisco District, we provided 4 full-time Schedulers, all assigned to the Phoenix Border District's offices as staff augmentation for that office.

Construction Phase Services in Support of USACE/SWG, New Reserve Center, Ellington JRB, Houston, TX—Our team was contracted under a single 12-month task order to provide on-site and technical construction phase support to USACE in connection with a new \$100 M, 7-building, 173,000 SF Reserve Center complex. We provided a full-time construction inspector for quality assurance services and in-house technical staff for design reviews of design/build contractor's design submittals. During construction the construction inspector performed daily on-site inspections and daily observations report into RMS. The construction inspector also reviewed shop drawings, monitored the construction schedule, reviewed contractor change orders and monthly pay requests.

Construction Phase Services in Support of GSA Land Port of Entry Program, Los Tomates, TX—We served as Construction Manager for GSA and their DHS/CBP customer on this \$8 M project involving removal and replacement of all concrete pavements on the site. The LPOE had to remain in 24/7 operations throughout construction, requiring extensive phasing and coordination efforts. We provided both in-office support and full-time on-site quality assurance inspection for an 18-month period of performance. Construction phase services included review and approval of contractor submittals, RFI's, pay requests, and proposed change orders; led monthly on-site construction progress meetings; provided daily on-site inspections and reports to the GSA PM.

Construction Phase Services in Support of GSA, NCR Headquarters, Arlington, TX—Our team performed construction management services for this design/build project, including design reviews and construction phase services in connection with the construction and build-out of a new four-story, 87,577 SF building with a 6,500 SF SCIF for use as Region IV headquarters of the Nuclear Regulatory Commission. Services included project management, schedule management, review of pay apps, technical review of design, construction observation, and extensive project photography. We also assisted GSA and their NRC customer with development of a move plan and relocation of people, furniture, fixtures, equipment and systems for their transition to the new facility.

Construction Phase Services in Support of GSA, FAA Southwest Regional Headquarters, Fort Worth, TX—We served as Construction Manager for this new 6-story, 357,000 SF facility providing Class A office space for 1,600 FAA employees. On-site staff were responsible for enforcing the construction contract, as well as local building codes and ordinances, and special FAA site-specific requirements. We assisted the FAA project team in the field with documentation, meeting notes, record-keeping, progress payment validation, shop drawing review, and change order processing. Our inspectors provided weekly construction inspections and written log with progress reports, reviewed updated P2 schedules, and monitored progress relative to established baseline.

Construction Phase Services in Support of TxDOT, SH130 Tollway, Austin, TX—Our team provided program and construction management services for this new 49-mile, 4-lane controlled access tollway with segmented frontage roads, 177 bridge structures and 7 major interchanges. Prior to construction, we assisted in preparing RFP technical and procurement documents including updating schematic plans for implementation by the selected design/build team. We then assisted in the analysis and evaluation of competing proposals to determine best value for TxDOT. Upon contract award, our staff participated in design reviews for roadway, structural, drainage, and ramp/mainlane toll plaza facility submittals. Construction phase services included representation of the owner to enforce contract provisions and performing inspection oversight of all construction activities to ensure compliance with the plans and specifications.



H. ADDITIONAL INFORMATION

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A Case Study—Hillaryville Effluent Discharge Lines and Effluent Pump Station, Ascension Parish, LA

Our team successfully completed full engineering design and construction phase services on multiple public infrastructure projects from 2016 to 2018 in Ascension Parish, LA. These projects were designed under a partnership between the USAC (New Orleans District) and non-Federal partner Ascension Parish. In 2016, we designed the Hillaryville Effluent Discharge Lines and Pump Station project, which was identified as a need because the current infrastructure in the Hillaryville community is designed to allow effluent wastewater to discharge into a nearby drainage ditch. Construction was initiated in late 2017 and was finalized in 2018. Our engineers provided technical support during construction, which consisted of shop drawing review and approval, daily monitoring of construction activities and reporting, construction administration, weekly site QA meetings and development and closeout of punch list items for the contractor. Additionally, following the initiation of construction a change request was received by USACE to incorporate some additional levee work, this modification was incorporated into the construction schedule without a modification to the period of performance



(b) PROFESSIONAL QUALIFICATIONS

As a sign of the priority we place on this assignment, we are proposing an extremely experienced construction phase support team of technical experts in a wide variety of project types, including military construction, civil works, and other categories of both new construction and renovation. All proposed key discipline leaders have at least 10 years' experience; in fact, the average level of experience among the 25 proposed team members is 31 years per person. Each person proposed has extensive DoD experience, and most of the team has the specific experience of having completed CPS assignments for USACE/SWF in your AOR within the last five years, has functioned in their proposed role on similar assignments, and has been employed by their present firm for an average of 10 years. Please refer to the summary table below for a review of the overall qualifications of this team compared to the personnel needs emphasized in your solicitation.

Name Role	Education	Reg.	Training/ Certifications	Year of Experience	Years with Firm	TX/LA Location	Related Experience		
							SWF	CPS Military	CPS Civil Works
Manish Mardia, PE Program Manager	MS, BS	PE		27	10	✓	✓	✓	✓
Bonnie O'Brien Human Resources (HR)/Staffing Professional	BA	SHRM		38	36	✓	✓	✓	✓
Gilbert Aragon, PE Civil Engineer	BS	PE	USACE CQM	22	2	✓	✓	✓	✓
Jim Wilson Civil Engineer	BS	PE	LEED AP	33	9	✓	✓	✓	✓
Bob Sims, RA Architect	B. Arch	RA	USACE CQM	46	6	✓	✓	✓	✓
Lorena Holguin, RA Architect	M. Arch, B. EnvD	RA	AIA, LEED AP, NCARB, USACE CQM	16	4	✓	✓	✓	
Scott Parma Electrical Engineer	BS	PE	LEED AP	39	16	✓	✓	✓	✓
Harry Hawney Electrical Engineer	MBA, B.Eng	PE		44	11	✓	✓		✓
Carlos Arguijo Mechanical Engineer	MBA, BS	PE	LEED AP BD+C, CxA, USACECQM	20	5	✓	✓	✓	
Phillip Guajardo Mechanical Engineer	BS	PE	CxA, USACE CQM	17	6	✓	✓	✓	
William Wallace Electrical Engineer	MS, BS	PE	NCEES, SECB	42	11	✓	✓	✓	✓
Bob Yokum Structural Engineer	MS, BS	PE		41	10	✓	✓		✓
Chris Scott Landscape Architect	BA	RLA	ASLA, CNU-a, LEED AP	31	14	✓	✓	✓	✓
Stephen R. Richards Geotechnical Engineer	BS	PE		50	31	✓	✓	✓	✓
Marty Tittlebaum Environmental Engineer	PhD, ME, BE	PE		42	6	✓	✓		✓
Janice McLean Archaeologist	MA			28	15		✓	✓	✓
Rob Armstrong Hydraulic Engineer	BS	PE	CFM	35	18	✓	✓	✓	✓
Andre Garabedian Fire Protection Engineer	MS, BS	FPE	USACE CQM	26	13	✓	✓	✓	
Don Daigle Cost Estimator	AAS	CVS, CPE		37	5	✓	✓	✓	✓



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Janice McLean Archeologist	MA	RPA	28	15	✓	✓	✓
Dani Alexander QAR Assurance Representative	AS		23	7	✓	✓	✓
Aurelio Paez QAR Assurance Representative		USACE CQM	35	11	✓	✓	✓
Channing Brown III QAR Assurance Representative		USACE CQM	37	4	✓	✓	✓
Gabe Mercado QAR Assurance Representative		USACE CQM	21	4	✓	✓	✓
Bobby Lucero QAR Assurance Representative		USACE CQM	34	2	✓	✓	✓
Nathan Turner Scheduler	AS		15	5	✓	✓	✓

Previous Performance Record—Program Manager Manish Mardia, PE

Mr. Mardia started MSMM as a one-man firm 10 years ago to pursue work with USACE. Manish managed his first major USACE IDC contract with a joint venture of four small business firms following Hurricane Katrina. This particular project in Mr. Mardia's recent past is of particular interest in evaluating his professional qualifications for his role as Program Manager. Following the massive damage caused to the Gulf Coast of Louisiana by Hurricane Katrina, Mr. Mardia put together a joint venture entirely composed of small business entities to respond to the New Orleans District's need for a program/project/construction management consultant to assist with its hurricane recovery program. Manish as Program Manager, executed over 60 task orders in three years. Services included repair and replacement of approximately 40 miles of existing horizontal infrastructure, floodwall and levee systems.



"Mr. Manish Mardia has been a tremendous asset to our organization. He helps us fulfill our mission by providing access to high quality skill sets and rapidly adapting to changing conditions. He establishes and maintains good relationships with all parties and has outstanding customer service. I welcome the opportunity to continue working with Mr. Mardia."—Mr. Christopher J. Kelly, P.E., USACE Risk Management Center

Of course, we realize that the key discipline leaders must be supplemented by support personnel in all technical categories. Another advantage that we provide is that we are able to draw on a geographically diverse, resource-rich bench of "reach back" capabilities, as outlined under our discussion of Criteria (d) Capacity and (e) Knowledge of Locality.

(c) PAST PERFORMANCE

Our team consistently delivers cost efficient, on schedule, and high-quality design work on multi-state or national A-E IDIQs, as demonstrated by our team's 200+ "Exceptional" and "Very Good" ACASS performance ratings on recent contracts. Overall, we have a combined ACASS/CPARS rating of more than 80% Exceptional with the remainder being Very Good or Satisfactory. Neither of the JV partner firms has ever received any rating less than Satisfactory.

During the Fort Bliss Expansion Program (Section F, Project #4), HZ was under significant pressure over a number of years to deliver both field staff and deliver critical path infrastructure design and design/build RFP packages in parallel for the \$4.8B program. We employed a new tactic for this staffing "spike" in the field by *deploying our HR Manager on-site to accelerate interviews* and offers alongside our project manager. We used this process again in 2016 when USACE requested HZ provided a QA staff of 27 on the Hospital. We were able to meet that need in the time frame required.

Our successful performance is also demonstrated by the testimonials of some of our clients, such as these:

"MSMM Engineering continuously and repeatedly meets and beats schedule, even with the delay in schedule due to weather (acct of God). The firm adjusts and continues to adjust to circumstances out of their control." Dallas Floodway Extension Phase II—Kolawole Anifowoshe, Design Manager, USACE Fort Worth District

"The A-E Project Manager (Manish Mardia) has done a very good job to anticipate Government needs and proactively work them in advance of an issue. When logistical challenges presented themselves due to construction of a project on an adjacent site, the A-E (MSMM) proactively worked options for the Government to make key decision related to completion of this design." Texas City and Vicinity Hurricane Flood Protection Project I-Wall Repair—Kalli Clark-Egan, PE, COR, USACE Galveston District



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Natchez Drainage Improvement Project in Natchez, MZ, MSMM received the Best Project Award from the MRC in Vicksburg, MS. The project was managed by Mr. Manish Mardia, who accepted the award from Retired Brigadier General Robert Crear. Mr. Manish Mardia was presented with the President's Award for Excellence from General Crear of USACE Mississippi River Commission for his numerous satisfactory project management.



"Execution of the Fort Bliss Expansion Program is the best, in my opinion, of any major construction program in DoD. That success has been possible because of the commitment and teamwork among all of the members of Team Bliss, the use of a Land Development Engineer approach, and the application of MILCON Transformation principles." Troy Collins, PE, Deputy District Engineer for Programs & Project Management, Fort Worth District, US Army Corps of Engineers

"We asked our LDE partners to handle site development, site design, site integration and staff augmentation. We needed a strong team member in those areas to deliver a program of this magnitude. This was a huge program from the beginning and has now grown from a \$2 billion to \$4.4 billion program. The team has great chemistry and has grown along with program. Everyone has stepped up and delivered." Steve Wright, Account Manager, USACE Fort Worth District

Quality Management Plan

A big part of our success in achieving this kind of performance ratings and a consistent level of appreciation of our contribution on previous federal projects is our approach to Quality Management. We are ISO-9001 compliant, with a published corporate quality policy and procedures manual, compliance of which is regularly audited by an independent source within the firm.

General Approach—It is our corporate policy to develop an overall project-specific Quality Management Plan (QMP) for each IDIQ/IDC contract—and within each contract, a quality program for each individual task order. In our day-to-day practice, we use an established and documented blend of checks and procedures to maintain quality and assure coordination within our multi-disciplined organization. Items covered in our QMP's include budget restrictions, scheduling restrictions, code and government authority restrictions, submittal requirements, review requirements, deliverables, small business requirements, CAD/BIM drafting standards, specifications, design standards and standard details.

The QMP is individualized for each project/task order, which begins with a complete and thorough Work Plan incorporating all participating offices and sub-consultants' efforts. The Work Plan is developed, distributed, and accepted by all parties prior to the beginning of any project. The individualized plan will describe measures established to assure that design requirements are properly translated into the design contract documents and that the controls are in place for the preparation, review, approval , issue and revision of project documents. Important elements of the plan are as follows:

- Personnel interfaces and communications plans will be established for all participants including sub-consultants.
- A plan for Data management for each project is developed. A project central filing system will be determined and maintained, to include web-based SharePoint systems to allow sub-consultants to work in a virtual team arrangement.
- Submittal requirements for each formal deliverable under the contract/task order.
- Similar to a USACE Program or Project Management Plan (PgMP or PMP), our Program Manager will develop a Project Work Plan, the typical elements of which are as follows:
 - ✓ Description of the project, its individual features and the overall scope of work
 - ✓ Statement of project goals, objectives and standards
 - ✓ Functional requirements of project components
 - ✓ Controlling conditions such as codes, laws, zoning, master plan requirements and environmental restrictions
 - ✓ Delineation of how the work is to be performed, costs, schedule, manpower requirements and sub-consultant requirements and scopes of work
 - ✓ Delineation of methods of communication and documentation between team members and the client and user
 - ✓ Project Quality Control Plan specific to the project, including review schedule

A Closer Look at the Ft. Bliss Hospital: Value Added

In 2016, our participation on the Hospital began under a unique set of conditions. USACE had demobilized our Fort Bliss CPS team because the Hospital was later in design completion than anticipated. However, after nearly two years into construction USACE reached out to our team and requested a 27-person fulltime on-site team to start within 30 days. This team was to include architects, engineers, schedulers, cost estimators, administrative assistance and quality assurance inspectors specialized in healthcare/hospital construction. We delivered and had this team on board for nearly four years. As a part of our responsibilities, we were able to use our AE Design Healthcare practice to bring in Medical Planners and Architects during inspections to act as SME's and assist in specialized construction issues related to Infection Control Risk Assessment (ICRA) Best Practices in healthcare construction and BSL3 Labs. They have developed detailed training tools and performed training sessions for USACE, HFPA, MEDCOM and the construction contractor to educate them on some of the healthcare specific construction challenges.



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Approach to Quality Management for Construction Phase Services—Under a CPS IDC our Quality Assurance Representatives (QAR's) personnel typically do not develop or lead the DQMP process, but we do matrix in with responsibilities during design and construction. If our CPS services are initiated early in design phase, we will provide constructability reviews to USACE and its Designer-of-Record during formal reviews utilizing Dr. Checks. Aside from those reviews, we conduct design constructability reviews on design changes incorporated into any Change Orders.

During construction our primary responsibility is to oversee adherence and conformance to the contract document's plans and specifications and their reference standards for quality and to document the contractor progress in RMS. As part of our Quality Management Plans for each CPS task Order, Safety and Security will be addressed. Our Hazardous Assessment Safety Action Plan (HASAP) in the PWP will address all security and safety processes. On our recent Border Infrastructure projects we addressed security issues along the border related to illegal immigration activities and other related security concerns in the southern border area. Safety protocol, procedures and supplies will be detailed in the HASAP and the PWP. The activities of our teams Safety Coordinator will train and audits our team safety performance as well as their oversight of compliance of the construction contractor's safety program.

(d) CAPACITY

We bring a team with extensive depth of resources and a track record of success on major (over \$1 million task orders), sometimes concurrent task orders both regionally in SWF and nationwide. With a team of 600+ personnel and a history of delivering IDIQs for military customers, our team not only has the capacity but also the experience to consistently deliver and manage the delivery order execution rate required for this contract. Our strategic team composition will help ensure that we have the required services, capabilities, and support equipment in the right place at the right time. Under similar A-E IDIQ contracts, our team routinely executes five to ten task orders per year of \$500K or greater in A-E fees costs that involve multiple concurrent disciplines, complex designs, and unique construction solutions. Specifically, as already documented in this submittal, we have provided construction phase services that required a total of fifteen (15) or more required staff over at least a one-year period on the following Section F projects: Fort Bliss Hospital (Project #1); El Paso/Yuma Sector CBP Border Barrier Program (Project #3); Fort Bliss Expansion Program (Project #4); San Diego Sector CBP Border Barrier Program (Project #8).

Our partner firms specialize in the design and construction of military facilities and has held dozens of IDIQ contracts with capacities from \$12 to \$100M over the last ten years. Major programs served under these contracts include the \$4.8B Fort Bliss Expansion program (under five successive IDIQs), which included the \$1B replacement hospital occupied in 2020, and the ongoing, multi-billion-dollar southern Border Infrastructure Program. On the Fort Bliss Expansion program alone, we prepared 130+ design-bid-build construction packages and completed 285 task orders in seven years. At the peak of the Ft. Bliss program, our team managed and completed 25+ task orders, for both design and construction phase services, concurrently and put in place \$30M of construction per week. All of these projects were completed on an expedited basis due to pre-determined move-in dates set by the Army users. On its Civil Works IDIQ with SWF, between mid-2019 and the close of 2021, MSMM executed four concurrent major task orders—the Dallas Floodway Extension (\$422 K fee); Cow Bayou Drainage Pump Station (\$1.2 M fee); 277k Levee Raise and Delta Pump Station (\$1.8 M fee); and Environmental Infrastructure Sewer Treatment Plant (\$1.5 M fee).

Management systems that we anticipate using are described in more detail elsewhere in this submittal. As to schedule control, detailed project schedules will be developed for each task order and tracked using MS Project software. Critical path will be identified as well as task predecessors and resource allocation. Status will be updated at weekly project team meetings, and an action list of activities required to maintain schedule will be developed by the Task Order Manager in coordination with the overall Project Manager. If necessary, the Task Order Manager will generate a recovery plan with the assistance of team members.

As to executing multiple task orders simultaneously, our team has extensive experience managing multiple, concurrent task orders in geographically dispersed locations for IDIQs requiring multi-disciplinary services. We have collaborated with 30+ federal agencies on IDIQs providing similar services to this contract. We have developed a standard process that we use to confirm that all applicable work processes—resourcing; work plan development; sub-consultant coordination; schedule, cost, and quality control programs—are utilized to enhance our performance on every task order.

We are also committing a seasoned team of managers with the right experience for any related military construction program requirements that USACE Fort Worth might have, and this level of experience will facilitate our ability to respond to your needs on this IDIQ.

(e) KNOWLEDGE OF LOCALITY

MSMM is headquartered in New Orleans, LA with Texas operations in Houston and Dallas. Huitt-Zollars is headquartered in Texas and has been in continuous operation in the state since 1974. We maintain full-services in Dallas, Fort Worth, Houston (2 offices), Austin, and El Paso. All team members have had long-standing business operations in Texas, Louisiana, and surrounding states. Most of the staff members of our team have received their academic degrees and professional experience working in the unique terrain across these regions. Therefore, we have an intimate knowledge of the local building codes and standards, above-ground terrain, subsurface conditions, coastal and water resource characteristics of this region.



US Army Corps
of Engineers

MATOC for A-E CPS for Military and Civil Works primarily for the Fort Worth District and within the Southwestern Division Area of Responsibility Unrestricted with a Small Business Reserve

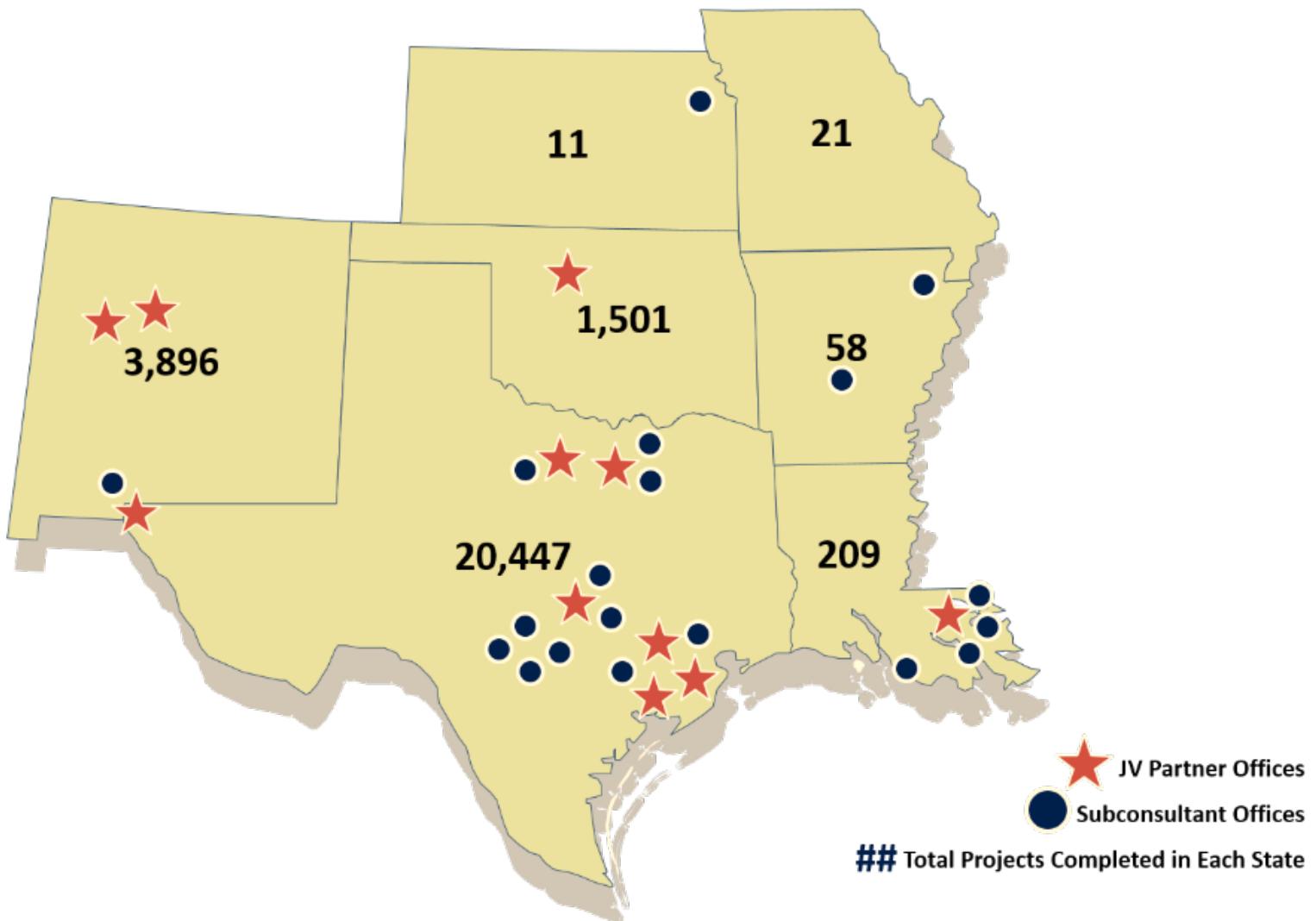
January 4, 2022

H. ADDITIONAL INFORMATION

30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

We are well versed in providing quality design and construction phase services in the area, given the unique geographical nature of the local areas and given the high groundwater table and poor soil quality, we know that geotechnical engineering and materials testing is of the upmost importance when designing projects that involve life safety. Given the importance of local knowledge, and in order to ensure that our knowledge of local soils and ability to facilitate material testing throughout the region, we have added one of the best-known Geotechnical Firms in Texas to the team in ETTL. Additionally, we will use JESCO Environmental and Geotechnical as our lead in the state of Louisiana.

This team was carefully created to encompass the breadth and depth of expertise requested by the solicitation. This is evident from the vast array of USACE projects completed by team members located within the Fort Worth District footprint. The capacity to accomplish the requested work as requested in this solicitation is further enhanced when considering the number of offices our team offers in your AOR. The landscapes covered by the boundaries of the Southwestern Division AOR offers a unique set of physical and environmental conditions that must be considered when undertaking project planning and design. This team has over 25,000 professionals located in the AOR that have lived and worked in this geographic setting for many years on both public and private client projects and are comfortable and confident designing projects in this area. Please reference the nearby map showing the number of office locations of both MHZ and our team members located within the AOR as well as total projects completed in the affected states.





MATOC for A-E CPS for Military and Civil Works primarily for the Fort Worth District and within the Southwestern Division Area of Responsibility Unrestricted with a Small Business Reserve
January 4, 2022

H. ADDITIONAL INFORMATION

30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

(f) UTILIZATION OF SMALL BUSINESS FIRMS

The SB participation plan presented on the next page shows the commitment to subcontract and exceed the small business participation goal of 8%. As MHZ is a small business joint venture, we are committed to performing a minimum of 62% of the anticipated contract value, with a total of 71% of the contract anticipated for small business concerns. In addition, we do plan to utilize our subcontractors both small and large for specialty services and added bench strength.

Firm Role	SB Designation	Fee Subcontracted	Large Business	SB	SDB	WOSB	HUB Zone	SDVOSB	VOSB	Percentage of Contract
MHZ, JV All Services	SB, SDB	\$6,200		\$6,200	\$6,200					62.00%
Building Team Tech Mech, Elec, CxA, Staffing	SB, SDB, HUBZone	\$200		\$200	\$200		\$200			2.00%
Citadel Development Services Scheduling	SB, SDB, SDVOSB	\$100		\$100	\$100			\$100	\$100	1.00%
ETTL Engineers & Consultants Geotech, Materials Testing	SB, WOSB	\$100		\$100		\$100				1.00%
Garabedian Associates Fire Protection Engineering	SB, SDB	\$100		\$100	\$100					1.00%
JESCO Environmental (HTRW), Geotech	SB, SDB, WOSB	\$100		\$100	\$100	\$100				1.00%
Michael Baker International Bench Strength	NA	\$0	\$1,000							10.00%
R Christopher Goodwin Archeology, Cultural Resources	SB	\$50		\$50						0.50%
The Rios Group SUE, Survey	SB, SDB, WOSB	\$100		\$100	\$100	\$100				1.00%
Terrane Engineering Corporation Geotechnical Engineering	SB, HUBZone	\$100		\$100			\$100			1.00%
Vernadero Group Environmental (NEPA)	SB, VOSB	\$50		\$50					\$50	0.50%
Total Subcontracted \$		\$900	\$1,000	\$900	\$600	\$300	\$300	\$100	\$150	19.00%
Percentage of Subcontracted \$				100.0%	66.7%	33.3%	33.3%	11.1%	16.7%	

\$ are in Thousands, Assumed Contract Value of \$10M

	USACE %Goal of Total Contract Value	Percentage of Subcontracted Amount	Total \$ Amount Sub	% of Contract Value
Large Business	0%	52.6%	\$1,000	10.0%
Small Business	7%	373.7%	\$7,100	71.0%
SDB	4%	31.6%	\$600	6.0%
WOSB	3%	15.8%	\$300	3.0%
HUBZone	1%	15.8%	\$300	3.0%
SDVOSB	1%	5.3%	\$100	1.0%
VOSB	1%	7.9%	\$150	1.5%

Contract Value*	\$10,000
Total Subcontracted	\$1,900
Small Business	\$7,100
Large Business	\$1,000

*Assumed contract value of 10M over 7 years



US Army Corps
of Engineers

MATOC for A-E CPS for Military and Civil Works primarily for the Fort Worth District and within the Southwestern Division Area of Responsibility Unrestricted with a Small Business Reserve
January 4, 2022

H. ADDITIONAL INFORMATION

30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

(g) GEOGRAPHIC PROXIMITY

Reference is made to the map of our team's office locations in the SWD AOR under (e) above.

(h) VOLUME OF DOD CONTRACT AWARDS

Project Name	Agency	Contract	Amount	Date
MHZ				
Minimum Guarantee	USACE Tulsa District	W9126BV20D0027	\$2500	October 2020

I. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

31. SIGNATURE

32. DATE

January 4, 2022

33. NAME AND TITLE

Manish Mardia, PE, Program Manager, MHZ JV Board Member



PART II



PART II

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (*If any*)
W9126G-20-R-0099

PART II - GENERAL QUALIFICATIONS

PART II - GENERAL QUALIFICATIONS
(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME MSMM Huitt-Zollars A Joint Venture			3. YEAR ESTABLISHED 2019	4. DUNS NUMBER 117073814
2b. STREET 4640 S Carrollton Ave Ste 220			5. OWNERSHIP	
			a. TYPE Joint Venture	
2c. CITY New Orleans			b. SMALL BUSINESS STATUS Small Business	
6a. POINT OF CONTACT NAME AND TITLE Manish Mardia, Joint Venture Chairman			7. NAME OF FIRM (<i>If block 2a is a branch office</i>)	
6b. TELEPHONE NUMBER 504-559-1897		6c. E-MAIL ADDRESS mmardia@mssmeng.com		
8a. FORMER FIRM NAME(S) (<i>If any</i>)			8b. YR. ESTABLISHED	8c. DUNS NUMBER

9 EMPLOYEES BY DISCIPLINE

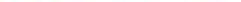
10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

SERVICES REVENUES OF FIRM FOR LAST 3 YEARS <i>(Insert revenue index number shown at right)</i>		PROFESSIONAL SERVICES REVENUE INDEX		
	1	1. Less Than \$100,000	6.	\$2 million to less than \$5 million
	1	2. \$100,000 to less than \$250,000	7.	\$5 million to less than \$10 million
a. Federal Work	1	3. \$250,000 to less than \$500,000	8.	\$10 million to less than \$25 million
b. Non-Federal Work	1	4. \$500,000 to less than \$1 million	9.	\$25 million to less than \$50 million
c. Total Work	1	5. \$1 million to less than \$2 million	10.	\$50 million or greater

12. AUTHORIZED REPRESENTATIVE - The foregoing is a statement of facts.

a. SIGNATURE		b. DATE	December 29, 2021
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c. NAME AND TITLE

Manish Mardia, Joint Venture Chairman

b. DATE

ARCHITECT-ENGINEER QUALIFICATIONS					1. SOLICITATION NUMBER (If any) W9126G-20-R-0099	
PART II – GENERAL QUALIFICATIONS <i>(If a firm has branch offices, complete for each specific branch office seeking work)</i>						
2a. FIRM (Or Branch Office) NAME MSMM Engineering, LLC CAGE Code: 6SKR5					3. YEAR ESTABLISHED 2011	4. UNIQUE ENTITY IDENTIFIER 969989370
2b. STREET 4640 South Carrollton Avenue, Suite 220					5. OWNERSHIP	
2c. CITY New Orleans		2d. STATE LA	2e. ZIP CODE 70119	a. TYPE Limited Liability Corporation		
6a. POINT OF CONTACT NAME AND TITLE Manish Mardia, P.E., President/Owner					b. SMALL BUSINESS STATUS Small Business	
6b. TELEPHONE NUMBER 504-559-1897		6c. EMAIL ADDRESS mmardia@msmmeng.com			7. NAME OF FIRM (If block 2a is a branch office)	
8. FORMER NAME(S) (If any)				8b. YEAR ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER	
9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
12	Civil Engineer	3	2	C07	Coastal Engineering	2
21	Electrical Engineer	1	1	C13	Computer Facilities; Computer Service	2
23	Environmental Engineer	2	1	C15	Construction Management	3
57	Structural Engineer	2	1	D01	Dams (Concrete; Arch)	1
42	Foundation/Geotechnical Engineer	1		D02	Dams; Dikes; Levees	2
24	Environmental Scientist	1	1	E03	Electrical Studies and Design	1
32	Hydraulic Engineer	1	1	L06	Lighting (Exteriors; Streets; Memorials Athletic Fields)	1
18	Cost Engineer / Estimator	1		P06	Planning (Site, Installation and Project)	4
08	CADD Technician	4	3	R11	Rivers; Canals: Waterways; Flood Control	4
06	Architect	1	1	S09	Structural Design; Special Structures	2
48	Project Manager	2	2	S13	Storm Water Handling & Facilities	3
61	Value Engineer	1	1	W02	Water Resources; Hydrology Ground Water	2
15	Inspector	3	3	W03	Water Supply; Treatment and Distribution	3
02	Administrative	2	1			
Total		25	18			
11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS <i>(Insert revenue index number shown at right)</i>		PROFESSIONAL SERVICES REVENUE INDEX NUMBER				
a. Federal Work	6	1. Less than \$100,000			6. \$2 million to less than \$5 million	
b. Non-Federal Work	5	2. \$100,000 to less than \$250,000			7. \$5 million to less than \$10 million	
c. Total Work	6	3. \$250,000 to less than \$500,000			8. \$10 million to less than \$25 million	
		4. \$500,000 to less than \$1 million			9. \$25 million to less than \$50 million	
		5. \$1 million to less than \$2 million			10. \$50 million or greater	
12. AUTHORIZED REPRESENTATIVE <i>The foregoing is a statement of facts.</i>						
a. SIGNATURE					b. DATE December 29, 2021	
c. NAME AND TITLE Manish Mardia, P.E., President/Owner						

ARCHITECT-ENGINEER QUALIFICATIONS					1. SOLICITATION NUMBER (If any) W9126G-20-R-0099	
PART II – GENERAL QUALIFICATIONS <i>(If a firm has branch offices, complete for each specific branch office seeking work)</i>						
2a. FIRM (Or Branch Office) NAME MSMM Engineering, LLC (Houston Texas Office)					3. YEAR ESTABLISHED 2011	4. UNIQUE ENTITY IDENTIFIER 071392535
2b. STREET 13850 Gulf Freeway, Suite 202A CAGE Code: 8DSX1					5. OWNERSHIP	
2c. CITY Houston		2d. STATE TX	2e. ZIP CODE 77034	a. TYPE Limited Liability Corporation		
6a. POINT OF CONTACT NAME AND TITLE Manish Mardia, P.E., President/Owner					b. SMALL BUSINESS STATUS Small Business	
6b. TELEPHONE NUMBER 504-559-1897		6c. EMAIL ADDRESS mmardia@msmmeng.com			7. NAME OF FIRM (If block 2a is a branch office) MSMM Engineering, LLC	
8. FORMER NAME(S) (If any)				8b. YEAR ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER	
9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
12	Civil Engineer	3	1	C07	Coastal Engineering	2
21	Electrical Engineer	1		C13	Computer Facilities; Computer Service	2
23	Environmental Engineer	2	1	C15	Construction Management	3
57	Structural Engineer	2	1	D01	Dams (Concrete; Arch)	1
42	Foundation/Geotechnical Engineer	1	1	D02	Dams; Dikes; Levees	2
24	Environmental Scientist	1		E03	Electrical Studies and Design	1
32	Hydraulic Engineer	1		L06	Lighting (Exteriors; Streets; Memorials Athletic Fields)	1
18	Cost Engineer / Estimator	1	1	P06	Planning (Site, Installation and Project)	4
08	CADD Technician	4	1	R11	Rivers; Canals: Waterways; Flood Control	4
06	Architect	1		S09	Structural Design; Special Structures	2
48	Project Manager	2		S13	Storm Water Handling & Facilities	3
61	Value Engineer	1		W02	Water Resources; Hydrology Ground Water	2
15	Inspector	3		W03	Water Supply; Treatment and Distribution	3
02	Administrative	2	1			
Total		25	7			
11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS <i>(Insert revenue index number shown at right)</i>		PROFESSIONAL SERVICES REVENUE INDEX NUMBER				
a. Federal Work	6	1. Less than \$100,000			6. \$2 million to less than \$5 million	
b. Non-Federal Work	5	2. \$100,000 to less than \$250,000			7. \$5 million to less than \$10 million	
c. Total Work	6	3. \$250,000 to less than \$500,000			8. \$10 million to less than \$25 million	
		4. \$500,000 to less than \$1 million			9. \$25 million to less than \$50 million	
		5. \$1 million to less than \$2 million			10. \$50 million or greater	
12. AUTHORIZED REPRESENTATIVE <i>The foregoing is a statement of facts.</i>						
a. SIGNATURE					b. DATE December 29, 2021	
c. NAME AND TITLE Manish Mardia, P.E., President/Owner						

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)

W9126G-20-R-0099

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (or Branch Office) NAME Huitt-Zollars, Inc.				3. YEAR ESTABLISHED 1975	4. UNIQUE ENTITY IDENTIFIER 156399560
2b. STREET 500 W. 7th Street, Suite 300				5. OWNERSHIP	
2c. CITY Fort Worth		2d. STATE Texas	2e. ZIP CODE 76102-4728	a. TYPE Corporation	b. SMALL BUSINESS STATUS Large Business
6a. POINT OF CONTACT NAME AND TITLE Larry O. Rogers, PE, Vice President				7. NAME OF FIRM (If Block 2a is a Branch Office) Huitt-Zollars, Inc.	
6b. TELEPHONE NUMBER 817-335-3000		6c. E-MAIL ADDRESS lrogers@huitt-zollars.com		8a. FORMER FIRM NAME(S) (If any)	
				8b. YEAR ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER

9. EMPLOYEES BY DISCIPLINE

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Function Code	b. Discipline	c. Number of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
02	Administrative	68	4	A09	Anti-Terrorism/Force Protection	4
06	Architect	90	11	B01	Barracks; Dormitories	4
08	CADD Technician	46	6	C15	Construction Management	2
12	Civil Engineer	159	7	D04	Design-Build Preparation RFP's	3
15	Construction Inspector	4		D07	Dining Halls; Clubs; Restaurants	2
16	Construction Manager	10	1	E02	Educational Facilities; Classrooms	2
21	Electrical Engineer	16	10	E05	Elevators; Escalators; People-Movers	1
23	Environmental Engineer	2		E07	Energy Conservation; New Energy Sources	5
25	Fire Protection Engineer	2	1	F03	Fire Protection	4
37	Interior Designer	6		G01	Garages; Vehicle Maintenance Facilities; Parking	5
38	Land Surveyor	57		H07	Highways; Streets; Airfield Paving; Parking	4
39	Landscape Architect	6		H11	Housing (Residential, Multi-Family; Apartments; Condominiums)	3
42	Mechanical Engineer	24	14	I01	Industrial Buildings; Manufacturing Plants	5
47	Planner: Urban/Regional	4		I05	Interior Design; Space Planning	2
57	Structural Engineer	17	4	I06	Irrigation; drainage	
60	Transportation Engineer	15		J01	Judicial and Courtroom Facilities	4
62	Water Resource Engineer	12		M05	Military Design Standards	3
				O01	Office Buildings; Industrial Parks	5
				P08	Prisons & Correctional Facilities	2
				R06	Rehabilitation (Buildings; Structures; Fac's)	5
	Other Employees			S11	Sustainable Design	6
Total		538	58	W01	Warehouses & Depots	5

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

a. Federal Work	6
b. Non-Federal Work	5
c. Total Work	7

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

1. Less than \$100,000
2. \$100,000 to less than \$250,000
3. \$250,000 to less than \$500,000
4. \$500,000 to less than \$1 million
5. \$1 million to less than \$2 million
6. \$2 million to less than \$5 million
7. \$5 million to less than \$10 million
8. \$10 million to less than \$25 million
9. \$25 million to less than \$50 million
10. \$50 million or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE

b. DATE

12/29/2021

c. NAME AND TITLE

Monica Kent, PE, LEED AP, Senior Vice President

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)

W9126G-20-R-0099

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (or Branch Office) NAME Huitt-Zollars, Inc.				3. YEAR ESTABLISHED 1975	4. UNIQUE ENTITY IDENTIFIER 080747660
2b. STREET 5430 LBJ Freeway, Suite 1500				5. OWNERSHIP	
2c. CITY Dallas		2d. STATE Texas	2e. ZIP CODE 75240	a. TYPE Corporation	b. SMALL BUSINESS STATUS Large Business
6a. POINT OF CONTACT NAME AND TITLE Robert J. McDermott, PE, President				7. NAME OF FIRM (If Block 2a is a Branch Office) N/A	
6b. TELEPHONE NUMBER 214-871-3311		6c. E-MAIL ADDRESS mcdermott@huitt-zollars.com			
8a. FORMER FIRM NAME(S) (If any)				8b. YEAR ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER

9. EMPLOYEES BY DISCIPLINE

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Function Code	b. Discipline	c. Number of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
02	Administrative	68	37	A06	Airports; Terminals and Hangars; Freight Handling	1
06	Architect	90	4	B02	Bridges	7
08	CADD Technician	46	11	C15	Construction Management	6
12	Civil Engineer	159	33	C16	Construction Surveying	6
15	Construction Inspector	4		D04	Design-Build – Preparation of RFPs	4
16	Construction Manager	10	1	G01	Garages; Vehicles Maintenance Facilities; Parking Decks	6
21	Electrical Engineer	16		H04	Heating; Ventilating; Air Conditioning	6
23	Environmental Engineer	2	1	H07	Highways; Streets; Airfield Paving; Parking Lots	8
25	Fire Protection Engineer	2		H11	Housing (Residential, Multi-Family; Apartments)	3
37	Interior Designer	6	1	I06	Irrigation; Drainage	6
38	Land Surveyor	57	16	L02	Land Surveying	7
39	Landscape Architect	6	6	L03	Landscape Architecture	6
42	Mechanical Engineer	24	1	P06	Planning (Site, Installation and Project)	7
47	Planner: Urban/Regional	4		R04	Recreation Facilities (Parks, Marinas, Etc.)	4
57	Structural Engineer	17	7	S04	Sewage Collection, Treatment and Disposal	7
60	Transportation Engineer	15	9	S10	Surveying; Platting; Mapping; Flood Plain Studies	6
62	Water Resource Engineer	12	7	S11	Sustainable Design	6
				S13	Storm Water Handling and Facilities	5
	Other Employees			T04	Topographic Surveying and Mapping	5
Total		538	134			

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

a. Federal Work	6
b. Non-Federal Work	8
c. Total Work	8

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

- 1. Less than \$100,000
- 2. \$100,000 to less than \$250,000
- 3. \$250,000 to less than \$500,000
- 4. \$500,000 to less than \$1 million
- 5. \$1 million to less than \$2 million
- 6. \$2 million to less than \$5 million
- 7. \$5 million to less than \$10 million
- 8. \$10 million to less than \$25 million
- 9. \$25 million to less than \$50 million
- 10. \$50 million or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE

b. DATE

12/29/2021

c. NAME AND TITLE

Monica Kent, PE, LEED AP, Senior Vice President

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)

W9126G-20-R-0099

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (or Branch Office) NAME Huitt-Zollars, Inc.				3. YEAR ESTABLISHED 1975	4. UNIQUE ENTITY IDENTIFIER 879473999
2b. STREET 10350 Richmond Ave., Suite 300				5. OWNERSHIP	
2c. CITY Houston		2d. STATE Texas	2e. ZIP CODE 77042-4248	a. TYPE Corporation	b. SMALL BUSINESS STATUS Large Business
6a. POINT OF CONTACT NAME AND TITLE Gregory R. Wine, PE, LEED AP, Vice President				7. NAME OF FIRM (If Block 2a is a Branch Office) Huitt-Zollars, Inc.	
6b. TELEPHONE NUMBER 281-496-0066		6c. E-MAIL ADDRESS gwine@huitt-zollars.com		8a. FORMER FIRM NAME(S) (If any)	
				8b. YEAR ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER

9. EMPLOYEES BY DISCIPLINE

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Function Code	b. Discipline	c. Number of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
02	Administrative	68	5	B01	Barracks; Dormitories	2
06	Architect	90	2	C15	Construction Management	5
08	CADD Technician	46	4	D04	Design-Build – Prep RFPs	4
12	Civil Engineer	159	25	E02	Educational Facilities; Classrooms	4
15	Construction Inspector	4	1	G01	Garages; Vehicles Maintenance Facilities; Parking Decks	4
16	Construction Manager	10	5	H01	Harbors; Jetties, Piers, Ship Terminal Facilities	3
21	Electrical Engineer	16	1	H07	Highways; Streets; Airfield Paving; Parking Lots	6
23	Environmental Engineer	2		I05	Interior Design; Space Planning	2
25	Fire Protection Engineer	2		O01	Office Buildings, Industrial Parks	3
37	Interior Designer	6	1	R03	Railroad; Rapid Transit	7
38	Land Surveyor	57	4	R04	Recreation Facilities (Parks, Marinas, Etc.)	5
39	Landscape Architect	6		R06	Rehabilitation (Buildings; Structures; Facilities)	6
42	Mechanical Engineer	24	2	R11	Rivers; Canals; Waterways; Flood Control	6
47	Planner: Urban/Regional	4		S04	Sewage Collection; Treatment and Disposal	5
57	Structural Engineer	17		S10	Surveying; Platting; Mapping; Flood Plain Studies	5
60	Transportation Engineer	15		S11	Sustainable Design	4
62	Water Resource Engineer	12	1	S13	Storm Water Handling and Facilities	4
				T03	Traffic and Transportation Engineering	3
	Other Employees			T04	Topographic Surveying and Mapping	5
Total		538	51			

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

a. Federal Work	1
b. Non-Federal Work	7
c. Total Work	7

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

1. Less than \$100,000
2. \$100,000 to less than \$250,000
3. \$250,000 to less than \$500,000
4. \$500,000 to less than \$1 million
5. \$1 million to less than \$2 million
6. \$2 million to less than \$5 million
7. \$5 million to less than \$10 million
8. \$10 million to less than \$25 million
9. \$25 million to less than \$50 million
10. \$50 million or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE

b. DATE

12/29/2021

c. NAME AND TITLE

Monica Kent, PE, LEED AP, Senior Vice President

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)

W9126G-20-R-0099

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (or Branch Office) NAME Huitt-Zollars, Inc.				3. YEAR ESTABLISHED 1975	4. UNIQUE ENTITY IDENTIFIER 036623460
2b. STREET 5822 Cromo Drive, Suite 210				5. OWNERSHIP	
2c. CITY El Paso		2d. STATE Texas	2e. ZIP CODE 79912-5502	a. TYPE Corporation	b. SMALL BUSINESS STATUS Large Business
6a. POINT OF CONTACT NAME AND TITLE Isabel Vasquez, PE, Vice President				7. NAME OF FIRM (If Block 2a is a Branch Office) Huitt-Zollars, Inc.	
6b. TELEPHONE NUMBER 915-587-4339		6c. E-MAIL ADDRESS ivasquez@huitt-zollars.com		8a. FORMER FIRM NAME(S) (If any)	
				8b. YEAR ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER

9. EMPLOYEES BY DISCIPLINE

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Function Code	b. Discipline	c. Number of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
02	Administrative	68	1	C15	Construction Management	4
06	Architect	90	3	C16	Construction Surveying	1
08	CADD Technician	46	2	E09	Environmental Impact Studies, Assessments or Statements	1
12	Civil Engineer	159	9	E12	Environmental Remediation	2
15	Construction Inspector	4		H07	Highways; Streets; Airfield Paving; Parking Lots	5
16	Construction Manager	10	1	L02	Land Surveying	2
21	Electrical Engineer	16		P06	Planning (Site, Installation and Project)	1
23	Environmental Engineer	2		S04	Sewage Collection, Treatment and Disposal	2
25	Fire Protection Engineer	2		S10	Surveying; Platting; Mapping; Flood Plain Studies	3
37	Interior Designer	6		S11	Sustainable Design	1
38	Land Surveyor	57	1	T03	Traffic and Transportation Engineering	2
39	Landscape Architect	6		T04	Topographic Surveying and Mapping	3
42	Mechanical Engineer	24		W03	Water Supply; Treatment and Distribution	4
47	Planner: Urban/Regional	4				
57	Structural Engineer	17				
60	Transportation Engineer	15				
62	Water Resource Engineer	12				
	Other Employees					
	Total	538	17			

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

- | | | | |
|---------------------|---|---|---|
| a. Federal Work | 1 | 1. Less than \$100,000 | 6. \$2 million to less than \$5 million |
| b. Non-Federal Work | 6 | 2. \$100,000 to less than \$250,000 | 7. \$5 million to less than \$10 million |
| c. Total Work | 6 | 3. \$250,000 to less than \$500,000 | 8. \$10 million to less than \$25 million |
| | | 4. \$500,000 to less than \$1 million | 9. \$25 million to less than \$50 million |
| | | 5. \$1 million to less than \$2 million | 10. \$50 million or greater |

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

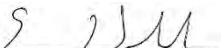
a. SIGNATURE

b. DATE

12/29/2021

c. NAME AND TITLE

Monica Kent, PE, LEED AP, Senior Vice President

ARCHITECT-ENGINEER QUALIFICATIONS				1. SOLICITATION NUMBER (If any) W9126G-20-R-0099		
PART II – GENERAL QUALIFICATIONS <i>(If a firm has branch offices, complete for each specific branch office seeking work)</i>						
2a. FIRM (Or Branch Office) NAME Vernadero Group Incorporated				3. YEAR ESTABLISHED 1999	4. UNIQUE ENTITY IDENTIFIER 114054054	
2b. STREET 3400 S. Carrollton Ave, #850752				5. OWNERSHIP		
2c. CITY New Orleans		2d. STATE LA	2e. ZIP CODE 70185	a. TYPE Corporation		
6a. POINT OF CONTACT NAME AND TITLE Eric Webb, President				b. SMALL BUSINESS STATUS Veteran-Owned Small Business		
6b. TELEPHONE NUMBER (866) 708-7640		6c. EMAIL ADDRESS ewebb@vernadero.com		7. NAME OF FIRM (If block 2a is a branch office) Vernadero Group Incorporated		
8. FORMER NAME(S) (If any)				8b. YEAR ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER	
9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
02	Administrative	2		C14	Conservation & Res Mngmt	4
06	Biologist	5	1	C15	Construction Management	5
07	Architect	1		E01	Ecological & Arch Investigations	4
16	Construction Manager	3		E07	Energy Conservation	1
19	Ecologist	2		E09	Environmental Impact Studies, Assessments or Statements	5
29	Geographic Information System	2		E10	Environmental & NR Mapping	2
47	Planner: Urban/Regional	4		E11	Environmental Planning	5
48	Project Manager	7	2	E12		1
				E13	Environmental Testing & Analysis	1
				G04	GIS Services: Development, Analysis & Data Collection	2
				H03	HTRW Remediation	2
				H07	Highways; Streets; Parking Lots	4
				H08	Historical Preservation	1
				P06	Planning	3
Total		26	3	W02	Water Res; Hydrology	1
11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS <i>(Insert revenue index number shown at right)</i>		PROFESSIONAL SERVICES REVENUE INDEX NUMBER				
a. Federal Work	8	1. Less than \$100,000 6. \$2 million to less than \$5 million				
b. Non-Federal Work	1	2. \$100,000 to less than \$250,000 7. \$5 million to less than \$10 million				
c. Total Work	8	3. \$250,000 to less than \$500,000 8. \$10 million to less than \$25 million				
		4. \$500,000 to less than \$1 million 9. \$25 million to less than \$50 million				
		5. \$1 million to less than \$2 million 10. \$50 million or greater				
12. AUTHORIZED REPRESENTATIVE <i>The foregoing is a statement of facts.</i>						
a. SIGNATURE 					b. DATE 20 December 2021	
c. NAME AND TITLE Eric Webb, President						

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (or Branch Office) NAME ETTL Engineers & Consultants Inc.		3. YEAR ESTABLISHED 1965	4. UNIQUE ENTITY IDENTIFIER 052125457
2b. STREET 1717 East Erwin		5. OWNERSHIP	
2c. CITY Tyler		2d. STATE Texas	2e. ZIP CODE 75702
6a. POINT OF CONTACT NAME AND TITLE James Aldredge - Director of Marketing		b. SMALL BUSINESS STATUS SBE/WBE/HUB (State)	
6b. TELEPHONE NUMBER (903) 595-4421		7. NAME OF FIRM (If Block 2a is a Branch Office) NA	
8a. FORMER FIRM NAME(S) (If any) NA		8b. YEAR ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER NA

9. EMPLOYEES BY DISCIPLINE

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

a. Federal Work	4
b. Non-Federal Work	6
c. Total Work	(1)

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

- | | |
|---|---|
| 1. Less than \$100,000 | 6. \$2 million to less than \$5 million |
| 2. \$100,000 to less than \$250,000 | 7. \$5 million to less than \$10 million |
| 3. \$250,000 to less than \$500,000 | 8. \$10 million to less than \$25 million |
| 4. \$500,000 to less than \$1 million | 9. \$25 million to less than \$50 million |
| 5. \$1 million to less than \$2 million | 10. \$50 million or greater |

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

~~SIGNATURE~~

b. DATE

12/29/2021

6. NAME AND TITLE

Mr C Brandon Quinn PE PG CAPM - Vice President

ARCHITECT-ENGINEER QUALIFICATIONS

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (or Branch Office) NAME		3. YEAR ESTABLISHED	4. UNIQUE ENTITY IDENTIFIER
2b. STREET		5. OWNERSHIP	
2c. CITY		2d. STATE	2e. ZIP CODE
6a. POINT OF CONTACT NAME AND TITLE		b. SMALL BUSINESS STATUS	
6b. TELEPHONE NUMBER		7. NAME OF FIRM (If Block 2a is a Branch Office)	
8a. FORMER FIRM NAME(S) (If any)		8b. YEAR ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER

9. EMPLOYEES BY DISCIPLINE

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

- a. Federal Work
- b. Non-Federal Work
- c. Total Work

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

- | | |
|---|---|
| 1. Less than \$100,000 | 6. \$2 million to less than \$5 million |
| 2. \$100,000 to less than \$250,000 | 7. \$5 million to less than \$10 million |
| 3. \$250,000 to less than \$500,000 | 8. \$10 million to less than \$25 million |
| 4. \$500,000 to less than \$1 million | 9. \$25 million to less than \$50 million |
| 5. \$1 million to less than \$2 million | 10. \$50 million or greater |

12. AUTHORIZED REPRESENTATIVE

| The foregoing is a statement of facts.

The foregoing is a statement of facts.	
a. SIGNATURE 	b. DATE
c. NAME AND TITLE	

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (*If any*)

W9126G-20-R-0099

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (or Branch Office) NAME Terrane Engineering Corporation		3. YEAR ESTABLISHED 1991	4. UNIQUE ENTITY IDENTIFIER 556047512
2b. STREET 507 E. Boston Cr.		5. OWNERSHIP	
2c. CITY Chandler		2d. STATE AZ	2e. ZIP CODE 85225
6a. POINT OF CONTACT NAME AND TITLE Frank Costello, P.E.		a. TYPE Corporation	
		b. SMALL BUSINESS STATUS 541330	
		7. NAME OF FIRM (<i>If Block 2a is a Branch Office</i>)	
6b. TELEPHONE NUMBER (480) 894-1207		6c. E-MAIL ADDRESS paco@terrane-eng.com	
8a. FORMER FIRM NAME(S) (<i>If any</i>)		8b. YEAR ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. Number of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (<i>see below</i>)
		(1) FIRM	(2) BRANCH			
02	Administration	1		A06	Airports; Terminals and Hangars	1
27	Geotechnical Engineer	1		C10	Commercial Building	1
58	Technician	1		C11	Community Facilities	1
				D02	Dams; Dikes; Levees	1
				D07	Dining Halls; Clubs; Restaurants	1
				E02	Educational Facilities; Classrooms	1
				E09	Environmental Impact Studies	1
				E13	Environmental Testing & Analysis	1
				F02	Field Houses; Gyms; Stadiums	1
				F05	Forensic Engineering	1
				H07	Highways; Streets; Airfield Paving	4
				H10	Hotels; Motels	1
				H11	Housing (Residential, Condos)	1
				I01	Industrial Buildings	1
				M06	Mining & Mineralogy	1
				O01	Office Buildings; Industrial Parks	1
				P02	Petroleum & Fuel (Storage)	1
				R11	Rivers; Canals; Waterways	1
				S04	Sewage Treatment & Disposal	1
				S09	Structural Design; Special Structure	1
	Other Employees			W01	Warehouse & Depots	1
	Total	3		W03	Water Supply; Treatment	1

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

a. Federal Work	4
b. Non-Federal Work	3
c. Total Work	4

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

- 1. Less than \$100,000
- 2. \$100,000 to less than \$250,000
- 3. \$250,000 to less than \$500,000
- 4. \$500,000 to less than \$1 million
- 5. \$1 million to less than \$2 million
- 6. \$2 million to less than \$5 million
- 7. \$5 million to less than \$10 million
- 8. \$10 million to less than \$25 million
- 9. \$25 million to less than \$50 million
- 10. \$50 million or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE

b. DATE

06/14/2021

c. NAME AND TITLE

Frank Costello, P.E.

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)

W9126G-20-R-0099

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (or Branch Office) NAME The Rios Group, Inc.		3. YEAR ESTABLISHED 2012	4. UNIQUE ENTITY IDENTIFIER 078570979
2b. STREET 7400 Sand Street		5. OWNERSHIP	
2c. CITY Fort Worth		2d. STATE TX	2e. ZIP CODE 76118
6a. POINT OF CONTACT NAME AND TITLE Tim Habenicht, PE - Fort Worth Branch Manager		a TYPE Corporate, S Type	
6b. TELEPHONE NUMBER 817.345.7500		b SMALL BUSINESS STATUS 541330	
6c. EMAIL ADDRESS thabenicht@rios-group.com		7. NAME OF FIRM (If Block 2a is a Branch Office)	
8a. FORMER FIRM NAME(S) (If any)		8b. YEAR ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER

9. EMPLOYEES BY DISCIPLINE

**10. PROFILE OF FIRM'S EXPERIENCE
AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS**

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

a. Federal Work	4+
b. Non-Federal Work	8+
c. Total Work	8+

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

- | | |
|---|---|
| 1. Less than \$100,000 | 6. \$2 million to less than \$5 million |
| 2. \$100,000 to less than \$250,000 | 7. \$5 million to less than \$10 million |
| 3. \$250,000 to less than \$500,000 | 8. \$10 million to less than \$25 million |
| 4. \$500,000 to less than \$1 million | 9. \$25 million to less than \$50 million |
| 5. \$1 million to less than \$2 million | 10. \$50 million or greater |

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE

Rosa Harry
NAME AND TITLE

c. NAME AND TITLE

Rosa Navejar, President

b. DATE

12/20/2021

ARCHITECT - ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)

W9126G-20-R-0099

PART II - GENERAL QUALIFICATIONS

(If a firm has branch office, complete for each specific branch office seeking work.)

2a. FIRM (or Branch Office) NAME Citadel CPM, Inc.			3. YEAR ESTABLISHED 2006	4. UNIQUE ENTITY IDENTIFIER DUNS 791784460
2b. STREET 482 South Arroyo Parkway, Suite 230			5. OWNERSHIP	
2c. CITY Pasadena		2d. STATE CA	2e. ZIP CODE 91105	a. TYPE Corporation
6a. POINT OF CONTACT NAME AND TITLE Fadi R. Rassam, PE, CCM - President + CEO			b. SMALL BUSINESS STATUS DGS SBE	
6.. TELEPHONE NUMBER 626.796.7926		6c. E-MAIL ADDRESS frassam@citadelcpm.com		c. NAME OF FIRM (If Block 2a is a Branch Office) N/A
8a. FORMER FIRM NAME(S) (If any) N/A			8b. YEAR ESTABLISHED N/A	8c. UNIQUE ENTITY IDENTIFIER N/A

9. EMPLOYEES BY DISCIPLINE

10. PROFILE OF FIRM'S EXPERIENCE

AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Function Code	b. Discipline	c. Number of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
02	Administration	8	--	A08	Animal Facilities	1
06	Architect	8	--	C11	Community Facilities	2
12	Civil Engineer	4	--	C12	Communication Systems	3
16	Construction Manager	5	--	C15	Construction Management	6
42	Mechanical Engineer	2		E02	Education Facilities	5
48	Project Manager	14	--	H01	Harbors; Jetties; Piers Facilities	1
53	Scheduler	2	--	H07	Highways; Streets; etc.	2
58	Technical Analyst	3	--	H09	Hospitals and Medical Facilities	2
				J01	Judicial and Courtroom Facilities	3
				L01	Laboratories; Medical Research	2
				L04	Libraries; Museums; Galleries	2
				P06	Planning (Site, Installation, Project)	1
				P08	Prisons and Correctional Facilities	2
				R04	Recreation Facilities	1
				T03	Traffic and Transportation	1
	Other Employees	0	--			
	Total	46	--			

**11. ANNUAL AVERAGE PROFESSIONAL
SERVICES REVENUES OF FIRM
FOR LAST 3 YEARS**

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

- | | |
|---|---|
| 1. Less than \$100,000 | 6. \$2 million to less than \$5 million |
| 2. \$100,000 to less than \$250,000 | 7. \$5 million to less than \$10 million |
| 3. \$250,000 to less than \$500,000 | 8. \$10 million to less than \$25 million |
| 4. \$500,000 to less than \$1 million | 9. \$25 million to less than \$50 million |
| 5. \$1 million to less than \$2 million | 10. \$50 million or greater |

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of fact

a. SIGNATURE

b. DATE

01.03.2022

c. NAME AND TITLE

Fadi R. Rassam, PE, CCM - President + CEO

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (or Branch Office) NAME Building Tech Team, LLC		3. YEAR ESTABLISHED 2015	4. UNIQUE ENTITY IDENTIFIER
2b. STREET 16061 Moore Rd		5. OWNERSHIP	
2c. CITY Von Ormy		2d. STATE TX	2e. ZIP CODE 78073
6a. POINT OF CONTACT NAME AND TITLE Phillip A. Guajardo, President		b. SMALL BUSINESS STATUS	
6b. TELEPHONE NUMBER 210-264-6382		7. NAME OF FIRM (If Block 2a is a Branch Office)	
6c. EMAIL ADDRESS phillipg@buildingtechteam.com		8a. FORMER FIRM NAME(S) (If any)	
		8b. YEAR ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER

9. EMPLOYEES BY DISCIPLINE

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

- | | |
|---|---|
| 1. Less than \$100,000 | 6. \$2 million to less than \$5 million |
| 2. \$100,000 to less than \$250,000 | 7. \$5 million to less than \$10 million |
| 3. \$250,000 to less than \$500,000 | 8. \$10 million to less than \$25 million |
| 4. \$500,000 to less than \$1 million | 9. \$25 million to less than \$50 million |
| 5. \$1 million to less than \$2 million | 10. \$50 million or greater |

12 AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE

b DATE

12/29/2021

S. NAME AND TITLE

C. NAME AND TITLE Phillip A Guaiardo President

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)

W9126G-20-R-0099

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (or Branch Office) NAME Garabedian Associates			3. YEAR ESTABLISHED 2008	4. UNIQUE ENTITY IDENTIFIER 009764349
2b. STREET 16218 Juan Tabo Way			5. OWNERSHIP	
2c. CITY Helotes		2d. STATE TX	2e. ZIP CODE 78023	a. TYPE Sole Proprietor
6a. POINT OF CONTACT NAME AND TITLE Andre S. Garabedian, P.E.			b. SMALL BUSINESS STATUS Small Business	7. NAME OF FIRM (If Block 2a is a Branch Office)
6b. TELEPHONE NUMBER 210-592-1325	6c. EMAIL ADDRESS Andre@GarabedianFPE.com			
8a. FORMER FIRM NAME(S) (If any)			8b. YEAR ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER

9. EMPLOYEES BY DISCIPLINE

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

a. Federal Work	3
b. Non-Federal Work	3
c. Total Work	3

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

- | | |
|---|---|
| 1. Less than \$100,000 | 6. \$2 million to less than \$5 million |
| 2. \$100,000 to less than \$250,000 | 7. \$5 million to less than \$10 million |
| 3. \$250,000 to less than \$500,000 | 8. \$10 million to less than \$25 million |
| 4. \$500,000 to less than \$1 million | 9. \$25 million to less than \$50 million |
| 5. \$1 million to less than \$2 million | 10. \$50 million or greater |

12. AUTHORIZED REPRESENTATIVE

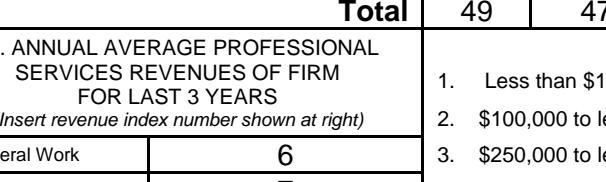
2. AUTHORIZED REPRESENTATIVE

a SIGNATURE

b. DATE
12/22/2021

c. NAME AND TITLE

c. NAME AND TITLE
Andre S. Garabedian, P.E., Sr. Fire Protection Engineer

ARCHITECT-ENGINEER QUALIFICATIONS				1. SOLICITATION NUMBER (If any) W9126G-20-R-0099		
PART II – GENERAL QUALIFICATIONS <i>(If a firm has branch offices, complete for each specific branch office seeking work)</i>						
2a. FIRM (Or Branch Office) NAME JESCO Environmental & Geotechnical Services, Inc				3. YEAR ESTABLISHED 1994	4. UNIQUE ENTITY IDENTIFIER 948076989	
2b. STREET 1701 S. Thibodeaux Rd.				5. OWNERSHIP		
2c. CITY Jennings		2d. STATE LA	2e. ZIP CODE 70546	a. TYPE S Corporation		
6a. POINT OF CONTACT NAME AND TITLE Alvinette Teal, President				b. SMALL BUSINESS STATUS Small Business, 8(a), SDB, WOSB, EDWSB		
6b. TELEPHONE NUMBER (337) 824-9074		6c. EMAIL ADDRESS ateal@jescous.com		7. NAME OF FIRM (If block 2a is a branch office) N/A		
8. FORMER NAME(S) (If any)				8b. YEAR ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER	
N/A				N/A	N/A	
9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
02	Administrative	5	5	C07	Coastal Engineering	2
07	Biologist	3	3	C15	Construction Management	7
08	CADD Technician	1	1	D06	Digital Orthophotography	1
11	Chemist	2	2	D08	Dredging Studies and Design	1
12	Civil Engineer	4	3	E09	EIS, Assessments or statements	3
15	Construction Inspector	5	5	E10	Environmental and Natural Resource Mapping	2
19	Ecologist	1	1	E11	Environmental Planning	3
17	Economist	1	1	E12	Environmental Remediation	5
24	Environmental Scientist	4	4	G04	GIS Services: Data Collection	2
29	GIS Specialist	1	1	H03	Hazardous, Toxic, Radioactive Waste Remediation	4
30	Geologist	3	3	H13	Hydrographic Surveying	1
36	Industrial Hygienist	1	1	P05	Planning	3
48	Project Manager	5	4	R07	Remote Sensing	1
49	Remote Sensing Specialist	1	1	R10	Risk Analysis	2
50	Risk Assessor	1	1	S05	Soils & Geologic Studies	5
58	Technician	11	10	S10	Surveying: Platting: Mapping: Flood Plain Studies	2
				W02	Water Resources; Hydrology, GW	3
				W02	Water Supply: Treatment and Distribution	2
Total		49	47			
11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS <i>(Insert revenue index number shown at right)</i>		PROFESSIONAL SERVICES REVENUE INDEX NUMBER				
a. Federal Work	6	1. Less than \$100,000 6. \$2 million to less than \$5 million				
b. Non-Federal Work	7	2. \$100,000 to less than \$250,000 7. \$5 million to less than \$10 million				
c. Total Work	8	3. \$250,000 to less than \$500,000 8. \$10 million to less than \$25 million				
		4. \$500,000 to less than \$1 million 9. \$25 million to less than \$50 million				
		5. \$1 million to less than \$2 million 10. \$50 million or greater				
12. AUTHORIZED REPRESENTATIVE <i>The foregoing is a statement of facts.</i>						
a. SIGNATURE 					b. DATE 12/17/2021	
c. NAME AND TITLE Alvinette Teal, P.G. President						

ARCHITECT – ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)
W9126G-20-R-0041

PART II – GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME Michael Baker International, Inc. (CAGE CODE 0KCH7)			3. YEAR ESTABLISHED 2015	4. UNIQUE ENTITY IDENTIFIER 956772347
2b. STREET Airside Business Park, 100 Airside Drive			5. OWNERSHIP Limited Liability Company	
2c. CITY Moon Township		2d. STATE PA	2e. ZIP CODE 15108	b. SMALL BUSINESS STATUS No
6a. POINT OF CONTACT NAME AND TITLE Beth J. Larkin, P.E., Office Executive			7. NAME OF FIRM (If Block 2a is a Branch Office) Michael Baker International, LLC	
6b. TELEPHONE NUMBER 412-269-2062		6c. E-MAIL ADDRESS Beth.Larkin@mbakerintl.com		8a. FORMER FIRM NAME(S) (If any) Michael Baker Jr., Inc.
			8b. YEAR ESTABLISHED 1987	8c. UNIQUE ENTITY IDENTIFIER 956772347

9. EMPLOYEES BY DISCIPLINE

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Function Code	b. Discipline	c. Number of Employees (1) FIRM 25	c. Number of Employees (1) FIRM 191	a. Profile Code	b. Experience	c. Revenue Index Number (see below)
02	Administrative	625	191	A02	Aerial Photography; Airborne Data and Imagery	3
05	Archaeologist	25	16	A05	Airports; Navaids; Airport Lighting; Fueling	6
06	Architect	51	13	B02	Bridges	8
12	Civil Engineer	488	49	C15	Construction Management	7
15	Construction Inspector	248	54	D01	Dams (Concrete; Arch)	1
16	Construction Manager	113	20	D02	Dams (Earth; Rock); Dikes; Levees	4
27	Foundation/Geotechnical Engineer	16	9	E01	Ecological & Archeological Investigations	6
29	GIS Specialist	120	35	G04	GIS: Development, Analysis, & Data Collection	4
30	Geologist	13	11	H07	Highways; Streets; Airfield Paving; Parking Lots	6
37	Interior Designer	10	9	M01	Mapping Location/Addressing Systems	3
42	Mechanical Engineer	29	9	M05	Military Design Standards	8
48	Project Manager	65	11	M06	Mining and Mineralogy	4
57	Structural Engineer	143	24	P04	Pipelines (Cross-country–Liquid & Gas)	4
58	Technician/Analyst	75	18	P06	Planning (Site, Installation and Project)	6
60	Transportation Engineer	144	13	S05	Soils & Geologic Studies; Foundations	4
	Designer/CADD Technician	190	46	T01	Telephone Systems (Rural; Mobile; Intercom)	4
	Engineering Technician	501	71	T03	Traffic & Transportation Engineering	4
	Environmental Scientist/Specialist	106	12	T04	Topographic Surveying and Mapping	6
	Planner	191	24		Bridge Inspection	3
	Survey Technician	49	7		Buildings	8
	Other Employees	277	35			
	Total	3479	677			

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS
(Insert revenue index number shown at right)

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

- 1. Less than \$100,000
- 2. \$100,000 to less than \$250,000
- 3. \$250,000 to less than \$500,000
- 4. \$500,000 to less than \$1 million
- 5. \$1 million to less than \$2 million
- 6. \$2 million to less than \$5 million
- 7. \$5 million to less than \$10 million
- 8. \$10 million to less than \$25 million
- 9. \$25 million to less than \$50 million
- 10. \$50 million or greater

a. Federal Work	9
b. Non-Federal Work	10
c. Total Work	10

12. AUTHORIZED REPRESENTATIVE
The foregoing is a statement of facts.

a. SIGNATURE

c. NAME AND TITLE

Beth J. Larkin, P.E., Office Executive

d. DATE

7/1/2021



JOINT VENTURE AGREEMENT



All Small Mentor-Protégé Program

Mentor-Protégé Agreement Template

Between

Huitt-Zollars, Inc.

and

MSMM Engineering, LLC

This Mentor/Protégé Agreement (“Agreement”) is between **Huitt-Zollars, Inc.** (proposed Mentor), a Texas corporation with its principal place of business at **1717 McKinney Avenue, Suite 1400, Dallas, Texas 75202**, and **MSMM Engineering, LLC** (Proposed Protégé), a Louisiana S-Corporation with its principal place of business at **4640 S. Carrollton Ave. Suite 210, New Orleans, LA 70119** (collectively referred to as the “Parties”).

WHEREAS, **MSMM Engineering, LLC** (proposed Protégé) is a **Small Disadvantaged Business in state/local markets and Small Business in federal markets providing services under NAICS codes 541330 Engineering Services, in geographic areas served by Louisiana, Texas and Mississippi**. **MSMM Engineering, LLC** is a multidisciplinary engineering firm specializing in complete assessment, evaluation, disaster recovery, construction management, inspection and design of flood protection, drainage, water/wastewater, navigation and civil works projects. **MSMM** has a team of engineers with extensive project management and problem resolution expertise. **MSMM** currently holds Federal Prime contracts with USACE Fort Worth and New Orleans Districts.

WHEREAS, **Huitt-Zollars, Inc.** (proposed Mentor) is a corporation with a history of providing diversified services in Civil, Structural, Mechanical, Electrical, Plumbing and Fire Protection Engineering; Architecture; Interior Design; Landscape Architecture; and Land Surveying and Construction Phase Services. In its 40th year of business, **Huitt-Zollars, Inc.** is a full-service architect and engineering firm with broad DoD, DHS and IBWC experience. **Huitt-Zollars, Inc.** has broad DoD and DHS experience with major agencies including USACE, AFCEC, NAVFAC, Coast Guard, DHS/CBP, GSA, and Veterans Administration. As an example, **Huitt-Zollars, Inc.** has had success with USACE and the Department of the Army as part of the Land Development Engineer for the \$4.8B Fort Bliss Expansion Program from 2006 to 2014, completing over 250 task orders for the Fort Worth District. **Huitt-Zollars** provided design services for the Fort Bliss program, one of the largest horizontal design and construction programs in USACE history, for nearly \$1B of infrastructure and provided design build RFPs for over 300 buildings.

WHEREAS, the Parties wish to formalize a mentor-protégé relationship between **MSMM Engineering, LLC** (proposed Protégé) and **Huitt-Zollars, Inc.** (proposed Mentor) under the

U.S. Small Business Administration's ("SBA") Mentor/Protégé Program established pursuant to 13 C.F.R. §125.9;

WHEREAS, the Parties agree that establishing a mentor-protégé relationship will enhance the capabilities of the Protégé, assist the Protégé meeting the goals established in its business plan, and improve the Protégé's ability to successfully compete for contracts;

WHEREAS, the Mentor is qualified to provide the material benefits, developmental gains, and agreed-upon assistance within the context of the SBA All Small Mentor-Protégé Program; and the Mentor will provide such assistance as detailed below for the Term of this Agreement per 13 C.F.R. § 125.9(e);

WHEREAS, the Parties have established a single point of contact within both organizations who will be responsible for managing and implementing the Agreement;

WHEREAS, the Parties will identify how the assistance to be provided differs from any assistance being provided under another Mentor-Protégé relationship outside of SBA (if applicable);

WHEREAS, the Parties have agreed that each may terminate the agreement with 30 days' advance notice to the other party, and to the SBA;

WHEREAS, the Parties have included a statement specifying that any changes to the Agreement must be made in writing, and be approved in advance by the SBA;

THEREFORE, consistent with the Parties' goals and the requirements of the SBA All Small Mentor-Protégé Program, the Parties agree to the following:

1. **MSMM Engineering, LLC's Assistance.** As a growing small business that has created a good reputation with several USACE districts, the need to continue growth to additional agencies and markets would be advanced by the assistance of a strategic partner in our industry that shares our same core values and commitment to client service. Below is a summary of the needs identified to accomplish the objectives in our business plan and long-term growth goals:

a. **Management and Technical Assistance:**

- Applying for and being eligible for SBA programs such as the All-Small Mentor-Protégé Program
- Developing a long-term strategic plan to incorporate goals, strategies, and tactics.
- Development of our annual business plan, inclusive of outlining realistic goals, clients and growth strategies.
- Evaluate management/accounting systems capabilities and make recommendations for implementation of business plan and SBA reporting
- Establishing processes to support vision/strategic plan in the technical areas of quality management and Project Management Policies and Procedures, especially in areas

- such as best practices for quality control, communications methods, cost control, and schedule control.
- Evaluation of existing capabilities and identifying gaps in current administrative support activities such as financial and accounting, accounts payable and receivable, specifically with anticipated increase in requirements connected to managing future joint venture activities
 - Establishing improved process for invoicing, contract administration, administration of joint-venture and sub-consultant agreements
 - Providing methodologies for staffing projections and developing recruiting processes for future growth and additional personnel and locations.
 - Develop repeatable best practices and standard operating procedures for production technology (drafting, CADD, Civil 3D, etc.)
 - Instituting project resourcing techniques to facilitate work scheduling and predicting staffing for multiple, simultaneous assignments

We will measure success of the Mentor Protégé relationship and the JV has on these goals through the following metrics:

- One-time events—To be measured by if the meetings/documentation occurred and to be documented by meeting minutes and documentation developed following the meeting.
- Quantifiable, but not numerical (\$), categories to be measured in terms of the goal itself, such as number of wins with new agencies targeted, number of joint client calls made, number of active pursuits identified, number of proposals/SF330's submitted, number of new commissions secured. All to be reported in a cumulative document that tracks JV activity when it comes to new business pursuits.
- Numerical (\$) categories such as sales, revenue, profit to be measured against business plan goals, for the JV and for the Protégé firm individually. Business goals as outlined in the Protégé business plan include an increase in sales goals from \$7M to \$15M (net), increase in net revenue from \$5M to \$9M and in increase in new profitability percentage from 11% to 15%.

b. Contracting Assistance:

- Contract review and negotiation of any new contracts won by the JV.
- Review of contracts won by the Protégé firm individually as needed.
- Preparing and reviewing prime and sub-consultant contracts and negotiation, defining of scope and costs/fees assigned to sub-consultants.
- Establishing necessary work processes for responding evaluating task order assignments and preparing fee proposal on Indefinite Delivery Contracts awarded, including the evaluation of scopes of works for participants, resourcing of teams, developing management plans, etc.
- Creating strategies for fee negotiation of task orders and understanding of the level of effort by discipline to meet the Federal scope.
- Establishment of procedures for development of labor rates and associated

- experience/skill requirements to defend rates when negotiating IDIQ contracts and task orders.
- Preparing fee proposals with the appropriate detail and determining level of effort, required disciplines, and proper format, development of assumptions and lessons learned from previous experiences to meet Federal FARs or DFARs limitations.

We will measure success the Mentor-Protégé relationship and the JV has on these goals through the following metrics:

- Currently we spend on average, 160 hours preparing fee proposals and negotiating task orders. With the assistance of the mentor and their ability/experience in negotiating, we expect a reduction in time spent negotiating (60 hours per task order) by reducing the back and forth and required resubmittals of fee proposals.
- Creation of a consistent template that satisfies the level of detail expected by the Federal clients that can be easily and repeatable used for every fee proposal on a single IDIQ contract.
- Quality of product produced is impacted from the start of the project in understanding scope, required disciplines and schedule. Mentor assistance in task order negotiation will have an impact on CPARS ratings. Measure success of negotiations through an expected increase in CPARS ratings. Particularly important after the first year of the JV Agreement will be the increase in posting of CPARS ratings in the Protégé firm's name as prime, which can be used for past performance in future pursuits.

c. Business Development Assistance:

- Preparation of formal business development policies and procedures including the evaluation of federal solicitation services/Fedbizzopps (e.g., "go/no go" decision tracking)
- Development of a strategic, federal-focused business plan with agencies identified, target contacts, relevant conferences, annual sales dollar goals per agency, and consistent call program with responsible party
- Developing a call and data capture program and to support business development plan
- Require assistance for recommendations as to tracking systems to monitor and report on progress against plan as well as tracking of upcoming opportunities to ensure adequate resources are available to perform the marketing efforts.
- Review and recommend/assist with enhancements to collateral materials (e.g., brochures, website, social media, etc.)
- Participation in sales training in connection with improvement of techniques, software and technology used for the development of proposals/SF330's and client presentations
- Development of a library/catalog of projects using the latest technology for the ability to use a key-word search to quickly tailor write-ups for future proposals.

We will measure success of the Mentor Protégé relationship and the JV has on these goals through the following metrics:

- Our current proposal success rate is around 10-20%, and we generally pursue 5-6 large contracts each year and win 1. New goal is 20-30% while pursuing 2-3X the amount of contracts with the mentor.
- We estimate \$2-4M in additional net revenue per year, which would meet the goals outlined in our business plan.
- Post award of new contracts, increase in number of CPARS rating and other past performance review information of the JV and the Protégé firm will be used as a measurement of success.

For each of the assessed needs addressed in the paragraph above, the Protégé must describe in detail: **WHAT** specifically will the mentor do to meet your need, **WHEN** (detailed timelines or number of hours in annual increments) the assistance will be provided, and **HOW** you will measure whether each of your needs have been successfully met, in accordance with your business plan, as per 13 C.F.R. §125.9.

2. **Huitt-Zollars, Inc.** agrees to assist **MSMM Engineering, LLC** to fully develop the assessed needs as described in Paragraph 1 above pursuant to 13 C.F.R. § 125.9(e)(i)-(ii).

A. Management and Technical Assistance

1. Assistance the Mentor will provide:

- Assist with the application to SBA to be qualified as Protégé firm
- Develop long term strategic plan to incorporate Mentor-Protégé goals, strategies, tactics as a JV team over a planning horizon of 3-6 years by identifying specific target pursuits, agencies and contracts that match our collective strong suits
- Development of an annual business plan for the JV; assistance with updating the current MSMM business plan based on the updated goals of the Protégé and the target pursuits.
- Evaluation of the management/accounting systems capabilities and make recommendations for implementation of business plan and SBA reporting. Provide sample management standard operating procedures.
- Formulate processes to support vision/strategic plan in the technical areas of quality management program and Project Management Policies and Procedures, especially in areas such as best practices for quality control, communications systems, cost control, and schedule control. Provide samples of quality plans and program management plans. Assist with development of these plans for overall JV management and contract specific opportunities.
- Evaluate existing capabilities and identify gaps in current administrative support activities such as financial and accounting, accounts payable and receivable, with needs anticipated in connection with JV activities. Provide administrative support as needed to ensure JV and Protégé success by assisting with invoicing, contract administration, administration of JVA and sub-consultant agreements
- Assist with establishing methodologies for staffing projections and help with developing recruiting processes for new contacts and additional personnel. Provide

- HR contacts for specific recruiting ideas, guidance on recruiting tools and review of personnel advertisements.
- Assist in developing best practices in connection with production technology (drafting, CADD, Civil 3D, etc.) and project resourcing techniques to facilitate contract scheduling and task order staffing for multiple, simultaneous assignments. Share internal CADD standards and other project management tools for adoption to Protégés business practices.

2. Timeline (i.e. weekly, bi-weekly, monthly, quarterly, etc.)

- One-time—
 1. Develop QA/QC manuals and project management procedures for JV and Protégé firm use (estimated hours: 80 hours)
 2. Develop overall strategic plan for the JV (estimated hours: 80 hours)
 3. Report on best management/reporting and accounting practices (estimated hours: 40 hours)
 4. Establish metrics for success in implementation of the goals and strategies of the JV and their impact on the Protégé firm's business plan (estimated hours: 40 hours)
- Annually—
 1. Annual audit of performance results of the JV (estimated hours: 40 hours)
 2. New business plan and update of strategic plan for JV as appropriate (estimated hours: 80 hours)
 3. Business Meeting of JV representatives to discuss annual goals/business opportunities and strategically align for new opportunities (estimated hours: 80 hours)
 4. HR assistance with personnel recruiting or advertising positions (estimated hours: 40 hours)
- Quarterly—
 1. Review of progress toward annual goals; business meeting of JV representatives (estimated hours: 40 hours)
- Monthly—
 1. Assist with financial and business development progress reports (estimated hours: 20 hours)

B. Contracting assistance.

1. Assistance the Mentor will provide:

- Assist with contract review and negotiation of any new contracts won by the JV
- Assist with other contract questions concerning individual Protégé firm awards as needed and explain contract terms and conditions that affect business actions
- Assist with both prime and sub-consultant contract review and negotiation, especially with the definition of scope and costs/fees assigned to sub-consultants. Provide standard subcontract and terms and conditions.
- Assist with the establishment of work processes necessary for responding for discrete task order assignments on Indefinite Delivery Contracts awarded to the JV

or to the Protégé firm individually, including the evaluation of scopes of works for participants, resourcing of teams, developing management plans, etc. Provide examples of project management tools such as IDIQ task order tracking and pricing tools.

- Assist with the negotiation of task orders and determination of the level of effort by discipline to meet the Federal scope. Help Protégé understand the limits as defined in FARs and DFARs related to fee limitations and profit.
- Assist with the development of appropriate labor rates associated with experience and skill level of multiple disciplines when negotiating contracts. Provide examples of rate workbooks and evaluate Protégé's current rate structures.
- Assist and train in the ability to properly determine level of effort, required disciplines, proper format, development of assumptions and lessons learned from previous experiences for the development and submission of fee estimates for task orders. Provide sample fee proposal workbooks that can be used on all IDIQs with multiple year rates. Help modify and customize workbooks for Protégé's and JVs use.

2. Timeline (i.e. weekly, bi-weekly, monthly, quarterly, etc.)

- One-time—
 1. Assistance with the establishment of work processes to plan, schedule, resource, and staff contracts/task orders, including ability to determine level of effort, required disciplines, proper format, development of assumptions and lessons learned from previous experience (160 hours)
- Per Event—
 1. Assistance with contract review and negotiation of new contracts (estimated hours per each new contract: 40 hours)
 2. Assistance with the negotiation of task orders and determination of the level of effort (estimated per each new task order basis: 25 hours)
- Annual—
 1. Assistance with the development of appropriate labor rates associated with experience and skill level of multiple disciplines when negotiating contracts and assist with creating blended Mentor and Protégé rates for Joint Venture pursuits. (to occur annually near the beginning of the year: 80 hours).

C. Business Development Assistance

1. Assistance the Mentor Will Provide:

- Assist with the installation of formal business development policies and procedures including the evaluation of clipping services/Fedbizzopps (e.g., “go/no go” decision tracking). Provide business development standard procedures currently being used for adoption and customization for Protégé.
- Develop business plan with markets identified, target agencies (and relevant conferences) listed, annual sales dollar goals, call program with responsible party. Share relationships with identified clients and perform joint calls to agencies to

present qualifications. Assist with networking and connecting Protégé with future clients.

- Develop call program to support business development plan. Provide examples of call reports and opportunity tracking.
- Make recommendations as to tracking systems to monitor and report on progress against plan. Provide samples of tracking workbooks that capture future opportunities. Share data on upcoming potential pursuits and develop tracking strategies.
- Review and make recommendations as to enhance collateral materials (e.g., brochures, website, social media, etc.). Assist with new collateral as needed. Develop collateral for JV including logos, brochures, etc.
- Conduct sales training in connection with improvement of techniques used for the development of proposals/SF330's and client presentations.
- Assist with developing a library/catalog of projects using the latest available technology for the ability to use a key-word search to quickly tailor write-ups for future proposals. Provide examples of project and marketing templates.

2. Timeline(i.e. weekly, bi-weekly, monthly, quarterly, etc.)

- One-time—
 1. Development of collateral materials to promote both the Protégé firm's and the JV's qualifications (120 hours)
 2. Front end activities such as development of formal business development standard operating procedures and policies and the development of technology and catalogs for the ability to quickly respond to opportunities (120 hours)
 - Per Event—
 1. For specific business development pursuits and contract opportunities, assistance will be on a per solicitation basis (80 hours per solicitation)
3. *Preparation of Mentor-Protégé Reports.* The Mentor shall use its reasonable and best efforts to assist the Protégé in preparation of the annual mentor/protégé report required by the SBA pursuant to 13 C.F.R. §125.9(g), and shall provide all required documentation.
4. *Terms of the Agreement.* Approved All Small Mentor-Protégé Agreements are considered active for a period of three (3) years and may be extended an additional three (3) years or until rescinded in writing.
5. *Mentor's Failure to Provide Mutually Agreed-Upon Assistance.* Pursuant to 13 C.F.R. 125.9(h), should the Mentor breach this Mentor-Protégé Agreement to provide mutually agreed-upon assistance to the Protégé, the Mentor understands that, after affording the Mentor an opportunity to respond to allegations of noncompliance, SBA may take one or more of the following actions:
- a. SBA may terminate the Mentor-Protégé Agreement;
 - b. SBA may find the Mentor ineligible to participate in SBA's
 - i. Mentor-Protégé Program for two (2) years;

- c. SBA may recommend a stop work order for each contract the Mentor and Protégé are performing as a joint venture pursuant to 13 C.F.R. § 125.9(h)(iii);
 - d. If the Protégé is able to independently complete performance of any such contracts being performed by the Mentor and Protégé as a joint venture pursuant to 13 C.F.R. § 125.9(h)(iii), SBA may authorize substitution of the Protégé firm for the joint venture; and,
 - e. SBA's Suspension and Debarment Official may pursue Government-wide suspension or debarment of the Mentor.
6. *Termination Clause.* This Agreement may be terminated as follows:
- a. Voluntary Termination by the Mentor. The Mentor may voluntarily terminate this Agreement if the Mentor no longer wishes to participate in the Mentor-Protégé Program as a Mentor. The Mentor shall notify the Protégé and the SBA in writing at least 30 days prior to the termination date.
 - b. Termination by the SBA. SBA may decide to terminate this Agreement at any time if it determines that the Mentor or Protégé is not properly fulfilling its obligations under the Agreement. SBA may also decide not to approve continuation of the Agreement if it finds that the Mentor has not provided the assistance set forth in the Agreement or that the assistance has not resulted in any material benefit or developmental gains to the Protégé.
 - c. Voluntary Termination by the Protégé. The Protégé may voluntarily terminate this Agreement if the Protégé no longer wishes to participate in the Mentor-Protégé Program as a Protégé. The Protégé shall notify the Mentor and the SBA in writing at least 30 days prior to the termination date.
 - d. Other Termination Conditions. Termination of the Agreement does not impact contractual agreements undertaken during the active stages of the Mentor-Protégé relationship. Therefore, contractual obligations must be satisfied in accordance with terms and conditions set forth in the contract.
7. *Effect of Termination.* Termination of this Agreement shall not impair the obligations of the Mentor to perform its contractual obligations pursuant to government prime contracts being performed with the Protégé. Likewise, termination of this Agreement shall not impair the obligations of the Protégé to perform its contractual obligations under any current contract or subcontracts between the Mentor and Protégé.
8. *Modifications.* SBA must approve all changes to this Agreement in advance.
9. *Notices and Points of Contact for SBA Program Administration.* The following individuals shall serve as the points of contact for administration of the Agreement and as such are authorized to receive all notices under this Agreement.

<u>Huitt-Zollars, Inc. (Mentor)</u>	<u>MSMM Engineering, LLC (Protégé)</u>
Monica Kent, PE	Manish Mardia, PE
Sr. Vice President	President
1717 McKinney, Suite 1400	4640 South Carrollton Ave, Suite 220
Dallas, TX 75202	New Orleans, LA 70119

214-871-3311
mkent@huitt-zollars.com

504-570-6098
mmardia@msmmeng.com

SBA Representative
The All Small Mentor-Protégé Team
U.S. Small Business Administration/HQ
409 3rd Street S.W.
Washington, DC 20416
Email: Allsmallmpp@sba.gov

10. *Status of the Parties.* This Agreement, in and of itself, does not constitute, create or give effect to or otherwise establish a joint venture agreement, partnership, or any other business or organization. Unless provided by the terms of another agreement consistent with the governing regulations, the Parties are and shall remain independent contractors.

11. *Integrated Document.* This Agreement supersedes any and all previous understandings, commitments, or agreements, oral or written, pertaining to the All Small SBA Mentor-Protégé Agreement.

12. *Other Provisions not Previously Discussed in the Agreement (if applicable):*

- a. Protégé does () does not () have another SBA approved Mentor-Protégé Agreement.
- b. Protégé is () is not () participating in any other formal Mentor-Protégé Programs governed by other agencies.
- c. Mentor does () does not () have another SBA approved Mentor-Protégé Agreement.
- d. Mentor is () is not () participating in any other formal Mentor-Protégé Programs governed by other agencies.

Mentor shall annually certify that it continues to possess good character and a favorable financial position, if the Agreement is extended.

Huitt-Zollars, Inc.; a Texas Corporation; certifies it possess good character and is in favorable financial position to enter into this Mentor-Protégé Agreement.

Subject to the approval of the U.S. Small Business Administration's Director, All Small Mentor-Protégé Program, this Agreement is entered into and effective as of the date of such approval. The Agreement is officially signed and executed by officials duly authorized to bind the named corporations this **10th day of April 2019**.

Monica Kent

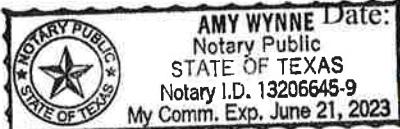
Manish Mardia

Signatory, Huitt-Zollars, Inc. (Mentor)
Monica Kent, Sr. Vice President

Date: April 10, 2019

Signatory, MSMM Engineering, LLC (Protégé)
Manish Mardia, President

Date: April 10, 2019



Amy Wynne



MHZ JV

A MENTOR PROTÉGÉ JOINT VENTURE

**4640 Carrollton Avenue, Suite 220
New Orleans, LA 70119
504-570-6098**