# ARCHITECT-ENGINEER (A-E)

## Construction Phase Services Indefinite Delivery Contracts

W912BV-22-R-0024

August 1, 2022

MHZ JV

A MENTOR PROTÉGÉ JOINT VENTURE

# PART I

## SECTIONS A–D

# ARCHITECT – ENGINEER QUALIFICATIONS
## PART I – CONTRACT SPECIFIC QUALIFICATIONS

### A. CONTRACT INFORMATION

1. TITLE AND LOCATION *(City and State)*
Architect-Engineer (A-E) Construction Phase Services Indefinite Delivery Contracts

2. PUBLIC NOTICE DATE
June 22, 2022

3. SOLICITATION OR PROJECT NUMBER
W912BV-22-R-0024

### 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.)*

| | (Check) PRIME | J-V PARTNER | SUBCON-TRACTOR | 9. FIRM NAME | 10. ADDRESS | 11. ROLE IN THIS CONTRACT |
|---|---|---|---|---|---|---|
| a. | X | | | MSMM Huitt-Zollars A Joint Venture<br>DUNS #117073814<br>☐ CHECK IF BRANCH OFFICE | 4640 Carrollton Avenue<br>Suite 220<br>New Orleans, LA 70119 | Project Management, Construction Management, Architecture, Mechanical Engineering, Fire Protection, Commissioning, Electrical Engineering, Civil Engineering, Structural Engineering, Surveying, Construction Scheduling, Interior Design |
| b. | | X | | MSMM Engineering, LLC (SB)<br>DUNS #969989370<br>☐ CHECK IF BRANCH OFFICE | 4640 Carrollton Avenue<br>Suite 220<br>New Orleans, LA 70119 | |
| c. | | X | | MSMM Engineering, LLC (SB)<br>DUNS #071392535<br>☒ CHECK IF BRANCH OFFICE | 13850 Gulf Freeway<br>Suite 202A<br>Houston, TX 77034 | |
| d. | | X | | Huitt-Zollars, Inc.<br>DUNS #156399560<br>☒ CHECK IF BRANCH OFFICE | 500 W. 7th Street<br>Suite 300<br>Fort Worth, TX 76102 | |
| e. | | X | | Huitt-Zollars, Inc.<br>DUNS #080747660<br>☐ CHECK IF BRANCH OFFICE | 5430 LBJ Freeway<br>Suite 1500<br>Dallas, TX 75240 | |
| f. | | X | | Huitt-Zollars, Inc.<br>DUNS #080747660<br>☒ CHECK IF BRANCH OFFICE | 5822 Cromo Drive<br>Suite 210<br>EL Paso, TX 79912 | |
| g. | | | X | ETTL Engineers & Consultants (WOSB)<br>DUNS #052125457<br>☐ CHECK IF BRANCH OFFICE | 1717 East Erwin<br>Tyler, TX 75702<br>Contact: Stephen R. Richards, PE | Geotechnical Engineering |
| h. | | | X | Michael Baker International, Inc.<br>DUNS #956772347<br>☐ CHECK IF BRANCH OFFICE | Airside Business Park<br>100 Airside Drive<br>Moon Township, PA 15108<br>Contact: Al Riera | Multi-discipline Support |
| i. | | | X | Hunter Pacific Group<br>DUNS #035511265<br>☐ CHECK IF BRANCH OFFICE | 160 W Island Avenue<br>San Diego, CA 92101<br>Contact: Celia Hunter | MEP Cost Estimating, Commissioning and Construction Scheduling |

## D. ORGANIZATIONAL CHART OF PROPOSED TEAM

☒ *(Attached)*

**LEGEND**

MSMM Huitt-Zollars A Joint Venture - MHZ JV
East Texas Testing Lab - ETTL
Michael Baker International - MBI

**PROJECT MANAGER**
Manish Mardia, PE (MHZ JV)

**CONSTRUCTION MANAGER**
Craig Trimble, AIA (MHZ JV)

### TECHNICAL DISCIPLINES

| | |
|---|---|
| **ARCHITECTURE**<br>Bob Sims, RA, CQM (MHZ JV) | **CIVIL ENGINEERING**<br>Jim Wilson, PE (MHZ JV) |
| **MECHANICAL ENGINEERING**<br>Shawn Moehring, PE (MHZ JV) | **STRUCTURAL ENGINEERING**<br>Bob Yokum, PE (MHZ JV) |
| **FIRE PROTECTION ENGINEERING**<br>David Meier, PE, FPE, LEED AP, CIPE (MHZ JV) | **GEOTECHNICAL ENGINEERING**<br>Stephen R. Richards, PE (ETTL) |
| **COMMISSIONING**<br>Carlos Arguijo PE, LEED AP BD+C, CxA, CQM (MHZ JV) | **SURVEYING**<br>Mitch Pillar, RPLS (MHZ JV) |
| **ELECTRICAL ENGINEERING**<br>Scott Parma, PE, LEED AP (MHZ JV) | **CONSTRUCTION SCHEDULING**<br>Nathan Turner (MHZ JV) |
| **INTERIOR DESIGN**<br>Joe Wells, RA, RID (MHZ JV) | |

### SUPPORT DISCIPLINES

| | |
|---|---|
| **MULTI-DISCIPLINE SUPPORT**<br>Michael Baker International | **MEP COST ESTIMATING, COMMISSIONING AND CONSTRUCTION SCHEDULING**<br>Hunter Pacific Group |

# PART I

# SECTION E

## E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

*(Complete one Section E for each key person.)*

KEY PERSONNEL

| 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 Specialization)*
MS, Civil Engineering, University of Jodhpur
BS, Civil Engineering, Louisiana State University

17. CURRENT PROFESSIONAL REGISTRATION *(State and Discipline)*
Professional Engineer/Environmental: 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

**a.**

(1) TITLE AND LOCATION *(City and State)*
**Mississippi River and Tributaries (MR&T-C/I), Floodplain Mgmt Services (FPMS), & EPA Investigations Construction Mgmt Support Services | New Orleans, LA**

Section F Project 2

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2020
CONSTRUCTION *(If applicable)*: 2021

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE
[ X ] Check if project performed with current firm

Scope: Our team supported the USACE New Orleans District with program and construction 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.Mr. Mardia was the Project 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: $2M Fee Role: Project Manager

**b.**

(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)*: 2023

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE
[ X ] Check if project performed with current firm

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: Project Manager

**c.**

(1) TITLE AND LOCATION *(City and State)*
**Project Mgmt, Construction Mgmt and Quality Assurance Support for the Coastal Wetlands Planning, Protection, and Restoration Act (CWPPRA) | New Orleans, LA**

Section F Project 4

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2020
CONSTRUCTION *(If applicable)*: 2021

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE
[ X ] Check if project performed with current firm

Scope: 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. Mr. Mardia as the Project 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: $540K Fee Role: Project Manager

**d.**

(1) TITLE AND LOCATION *(City and State)*
**On-Site Management of Hydrologic Resources, Dare Bombing Range | Dare County, North Carolina**

Section F Project 10

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2020
CONSTRUCTION *(If applicable)*: 2021

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE
[ X ] Check if project performed with current firm

Scope: Our team completed construction phase monitoring services of hydrologic improvements associated with the DCR Water Management Plan. Our staff performed construction oversight and monitoring for the sequencing and management of culvert maintenance and replacement at twenty-one (21) locations as prescribed by the DCR Water Management Plan and in accordance with the Navy safety restrictions and needs. Mr. Mardia was the Project 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: $2M Fee: $398K Role: Project Manager

## E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

*(Complete one Section E for each key person.)*

KEY PERSONNEL

| 12. NAME | 13. ROLE IN THIS CONTRACT | 14. YEARS EXPERIENCE a. TOTAL | b. WITH CURRENT FIRM |
|---|---|---|---|
| **Craig Trimble, AIA** | Construction Manager | 46 | 5 |

15. FIRM NAME AND LOCATION *(City and State)*
MHZ JV | Fort Worth, TX

| 16. EDUCATION *(Degree and Specialization)* | 17. CURRENT PROFESSIONAL REGISTRATION *(State and Discipline)* |
|---|---|
| Bachelor of Architecture, Texas Tech University | Registered Architect: TX (#8414) |

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Mr. Trimble has over 40 years of extensive experience in project and multi-project program management. Over the last 30 years, he has specialized in multi-year program management and design-build assignments for advanced technology, federal, corporate and aviation clients, with construction costs ranging from $10M to $2.5B. He is experienced in project management systems; design and construction management; partnering; Design-Build & CM "at risk"; cost/change control procedures; value engineering and analysis; quality control oversight; programming/requirements; procurement-evaluation and selection; prototype designs; and contract and fee negotiation.

## 19. RELEVANT PROJECTS

**a.**

(1) TITLE AND LOCATION *(City and State)*
**Construction Phase Engineering & Quality Assurance Support for Construction Projects at Central Oklahoma Area Office**

Section F Project 1

| (2) YEAR COMPLETED PROFESSIONAL SERVICES | CONSTRUCTION *(If applicable)* |
|---|---|
| 2023 | 2023 |

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [ X ] Check if project performed with current firm

Scope: We are providing senior level Quality Assurance Representatives in the field to support the District and its Central Oklahoma Area Office, specifically to the Resident Engineer at Tinker AFB for the oversight of the extraordinary level of construction projects at that installation. Cost: $1.46M Fee Role: Construction Manager

**b.**

(1) 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 - TX & LA**

Section F Project 5

| (2) YEAR COMPLETED PROFESSIONAL SERVICES | CONSTRUCTION *(If applicable)* |
|---|---|
| 2017 | 2017 |

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [ X ] Check if project performed with current firm

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: Construction Manager

**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**

Section F Project 6

| (2) YEAR COMPLETED PROFESSIONAL SERVICES | CONSTRUCTION *(If applicable)* |
|---|---|
| 2021 | 2021 |

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [ X ] Check if project performed with current firm

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: Construction Manager

**d.**

(1) TITLE AND LOCATION *(City and State)*
**Fort Bliss Hospital Construction Phase Services - El Paso, TX**

Section F Project 3

| (2) YEAR COMPLETED PROFESSIONAL SERVICES | CONSTRUCTION *(If applicable)* |
|---|---|
| 2020 | 2021 |

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [ X ] Check if project performed with current firm

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: Construction Manager

**e.**

(1) TITLE AND LOCATION *(City and State)*
**Quality Assurance Support for the Border Program – San Diego, CA**

Section F Project 9

| (2) YEAR COMPLETED PROFESSIONAL SERVICES | CONSTRUCTION *(If applicable)* |
|---|---|
| 2021 | 2021 |

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [ X ] Check if project performed with current firm

Scope: Program Manager over field staff. 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: Construction Manager

## E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

*(Complete one Section E for each key person.)*

KEY PERSONNEL

| 12. NAME | 13. ROLE IN THIS CONTRACT | 14. YEARS EXPERIENCE a. TOTAL | b. WITH CURRENT FIRM |
|---|---|---|---|
| **Bob Sims, RA, CQM** | Architect | 46 | 9 |

15. FIRM NAME AND LOCATION *(City and State)*
MHZ JV | Fort Worth, TX

| 16. EDUCATION *(Degree and Specialization)* | 17. CURRENT PROFESSIONAL REGISTRATION *(State and Discipline)* |
|---|---|
| Bachelor of Architecture, Texas Tech University | Registered Architect: TX (15643)<br>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

**a.**

(1) TITLE AND LOCATION *(City and State)*
**Fort Bliss Hospital Construction Phase Services - El Paso, TX**

Section E Project 3

| (2) YEAR COMPLETED PROFESSIONAL SERVICES | CONSTRUCTION *(If applicable)* |
|---|---|
| 2020 | 2021 |

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — **[ X ]** Check if project performed with current firm

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.**

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

Section E Project 5

| (2) YEAR COMPLETED PROFESSIONAL SERVICES | CONSTRUCTION *(If applicable)* |
|---|---|
| 2017 | 2017 |

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — **[ X ]** Check if project performed with current firm

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**

Section E Project 6

| (2) YEAR COMPLETED PROFESSIONAL SERVICES | CONSTRUCTION *(If applicable)* |
|---|---|
| 2021 | 2021 |

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — **[ X ]** Check if project performed with current firm

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

**d.**

(1) TITLE AND LOCATION *(City and State)*
**Construction Quality Assurance Assistance, Southwest Area Office (SWAO) Sites | Multiple Locations, TX and NM**

Section E Project 8

| (2) YEAR COMPLETED PROFESSIONAL SERVICES | CONSTRUCTION *(If applicable)* |
|---|---|
| 2017 | 2017 |

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — **[ X ]** Check if project performed with current firm

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 included 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

**e.**

(1) TITLE AND LOCATION *(City and State)*
**Fort Bliss Expansion Program Construction Phase Service - El Paso, TX**

| (2) YEAR COMPLETED PROFESSIONAL SERVICES | CONSTRUCTION *(If applicable)* |
|---|---|
| 2013 | 2013 |

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — **[ X ]** Check if project performed with current firm

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

## E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

*(Complete one Section E for each key person.)*

KEY PERSONNEL

| 12. NAME | 13. ROLE IN THIS CONTRACT | 14. YEARS EXPERIENCE a. TOTAL | b. WITH CURRENT FIRM |
|---|---|---|---|
| **Shawn Moehring, PE** | Mechanical Engineer | 17 | 7 |

15. FIRM NAME AND LOCATION *(City and State)*
MHZ JV | Fort Worth, TX

16. EDUCATION *(Degree and Specialization)*
BS, Mechanical Engineering, University of Texas Arlington
BS, Physics, University of North Texas

17. CURRENT PROFESSIONAL REGISTRATION *(State and Discipline)*
Professional Engineer: TX (#127610)

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Shawn Moehring's experience has included new construction and facility renovations as well as preparing engineering analyses and studies including energy conservation/reduction, and performing detailed HVAC design requirements and load simulators for commercial and industrial complexes. He has been in the HVAC industry since 2006, where he spent eight years working for a HVAC component manufacturer before joining our design team.

## 19. RELEVANT PROJECTS

**a.**

(1) TITLE AND LOCATION *(City and State)*
**Fort Bliss Hospital Construction Phase Services - El Paso, TX**

Section F Project 3

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2020
CONSTRUCTION *(If applicable)*: 2021

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE
[ X ] Check if project performed with current firm

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

**b.**

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

Section F Project 5

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2017
CONSTRUCTION *(If applicable)*: 2017

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE
[ X ] Check if project performed with current firm

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: Mechanical Engineer

**c.**

(1) TITLE AND LOCATION *(City and State)*
**Electrical and Fire Protection Engineering, Central Texas Area Office, Fort Hood Hospital Office & Fort Worth District Office | Texas**

Section F Project 7

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2017
CONSTRUCTION *(If applicable)*: 2017

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE
[ X ] Check if project performed with current firm

Scope: 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. 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. Cost (Fee): $466K Role: Mechanical Engineer

**d.**

(1) TITLE AND LOCATION *(City and State)*
**Construction Quality Assurance Assistance, Southwest Area Office (SWAO) Sites | Multiple Locations, TX and NM**

Section F Project 8

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2017
CONSTRUCTION *(If applicable)*: 2017

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE
[ X ] Check if project performed with current firm

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: Mechanical Engineer

**e.**

(1) TITLE AND LOCATION *(City and State)*
**Red River Army Depot, Molten Salt Expansion – Texarkana, Texas**

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2017
CONSTRUCTION *(If applicable)*: 2017

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE
[ X ] Check if project performed with current firm

Scope: Moehring designed the mechanical and plumbing systems for an engine cleaning expansion to a building at the Red River Army Depot. In this facility, molten salt is used to clean engine parts. It involves high temperatures and requires significant amounts of ventilation. The building was heated by infrared radiant heaters to keep internal water piping from freezing. Moehring performed calculations for determining the amount of ventilation and heating required to keep the building comfortable. Moehring also designed the plumbing systems which included floor drains for various equipment, water for an emergency eyewash station and natural gas supply to the specialized equipment. Cost: $769K Fee Role: Mechanical Engineer

## E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

*(Complete one Section E for each key person.)*

KEY PERSONNEL

| 12. NAME | 13. ROLE IN THIS CONTRACT | 14. YEARS EXPERIENCE a. TOTAL | b. WITH CURRENT FIRM |
|---|---|---|---|
| **David Meier, PE, FPE, LEED AP, CIPE** | Fire Protection Engineer | 32 | 2 |

15. FIRM NAME AND LOCATION *(City and State)*
MHZ JV | Fort Worth, TX

16. EDUCATION *(Degree and Specialization)*
BS, Mechanical Engineer, University of New Mexico

17. CURRENT PROFESSIONAL REGISTRATION *(State and Discipline)*
Profession Engineer/Mechanical and Fire Protection (Dual Registration), Texas #90657

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Mr. Meier has extensive experience in the design of mechanical and fire protection systems for a wide range of projects, both private sector and military. He is familiar with the requirements of UFC-3-600-01, "Fire Protection Engineering for Facilities," (revised May, 2021).

## 19. RELEVANT PROJECTS

**a.**

(1) TITLE AND LOCATION *(City and State)*
**Fort Bliss Hospital Construction Phase Services - El Paso, TX**

Section F Project 3

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2020
CONSTRUCTION *(If applicable)*: 2021

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE
[ X ] Check if project performed with current firm

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**: Fire Protection Engineer

**b.**

(1) TITLE AND LOCATION *(City and State)*
**Science & Technology On-Orbit Research Mission (STORM) Operations Center, Kirtland AFB, NM**

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2020
CONSTRUCTION *(If applicable)*: 2023

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE
[ X ] Check if project performed with current firm

Preparation of 100% plans and specifications for construction of a 3,800 SF addition to Bldg. 592 and upgrade approximately 4,800 SF of existing space in the same building. **Construction Cost:** $6.2 M. **Role**: As Fire Protection Engineering, Mr. Meier completed a thorough review and evaluation of the existing fire suppression system, provided design, sprinkler head layouts, and water supply calculations for extension of the existing sprinkler system to the new addition and renovation of existing system.

**c.**

(1) TITLE AND LOCATION *(City and State)*
**Immigration and Customs Enforcement (ICE) Texas Service Processing Center (SPC), El Paso, TX**

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2022
CONSTRUCTION *(If applicable)*: 2023

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE
[ X ] Check if project performed with current firm

Preparation of a DB RFP, including design charrette, MII Cost Estimate, Value Engineering Study, for construction of a new detainee dormitory at the ICE El Paso TX SPC. This new, single story dormitory will comprise four pods, each with a capacity of 60 people, served by a central security core and internal circulation system. **Construction Cost**: $14.7M. **Role**: As Fire Protection Engineer Mr. Meier provided calculations for water supply, developed concept sprinkler head layout plans and specifications for detention style heads. He also performed the NFPA Life Safety code analysis for the facility.

**d.**

(1) TITLE AND LOCATION *(City and State)*
**Pharmacy Renovation USP 797 and 800, Keesler AFB, MS**

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2021
CONSTRUCTION *(If applicable)*: 2022

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE
[ X ] Check if project performed with current firm

Full design for this multi-phase renovation of approximately 1000 SF of pharmacy compounding areas and storage/dispensing to meet current USP guidelines. **Construction Cost**: $2 M. **Role**: As Fire Protection Engineer, Mr. Meier provided 100% plans and specifications for the upgraded fire sprinkler system, which was remodeled for revised sprinkler head layout.

**e.**

(1) TITLE AND LOCATION *(City and State)*
**University of Houston Science Center Building 593 Renovation, Houston, TX**

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2021
CONSTRUCTION *(If applicable)*: 2022

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE
[ X ] Check if project performed with current firm

Renovation of the fire protection system for this existing 4-story, 100,000 SF Chemistry Lab building, originally built in 1988. **Construction Cost**: $2 M (fire protection only). **Role**: As Fire Protection Engineer, Mr. Meier provided design, calculations, 100% plans and specifications for the upgrade of existing fire suppression system, including relocation of existing fire pump from the basement to ground level, provision of a new break tank, connection to existing standpipe, addition of floor zone valves at each level of the building, and new sprinkler system for coverage of the entire building.

## E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

*(Complete one Section E for each key person.)*

KEY PERSONNEL

| 12. NAME | 13. ROLE IN THIS CONTRACT | 14. YEARS EXPERIENCE a. TOTAL | b. WITH CURRENT FIRM |
|---|---|---|---|
| **Carlos Arguijo, PE, LEED AP BD+C, CxA, CQM** | Commissioning | 20 | 5 |

15. FIRM NAME AND LOCATION *(City and State)*
MHZ JV | El Paso, TX

16. EDUCATION *(Degree and Specialization)*
Masters of Business Administration, University of Texas at El Paso
Bachelor of Science, Mechanical Engineering, Texas A&M University

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 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**

Section F Project 3

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2020
CONSTRUCTION *(If applicable)*: 2021

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE
[ X ] Check if project performed with current firm

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: Commissioning Specialist

**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
[ X ] Check if project performed with current firm

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

**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
[ X ] Check if project performed with current firm

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

**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
[ X ] Check if project performed with current firm

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

**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
[ X ] Check if project performed with current firm

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

## E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

*(Complete one Section E for each key person.)*

KEY PERSONNEL

| 12. NAME | 13. ROLE IN THIS CONTRACT | 14. YEARS EXPERIENCE a. TOTAL | b. WITH CURRENT FIRM |
|---|---|---|---|
| **Scott Parma, PE, LEED AP** | Electrical Engineer | 41 | 18 |

15. FIRM NAME AND LOCATION *(City and State)*
MHZ JV | Fort Worth, TX

| 16. EDUCATION *(Degree and Specialization)* | 17. CURRENT PROFESSIONAL REGISTRATION *(State and Discipline)* |
|---|---|
| Bachelor of Science, Electrical Engineering, Texas A&M University | Professional Engineer/Electrical: TX (#75690)<br>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**

Section F Project 3

| (2) YEAR COMPLETED PROFESSIONAL SERVICES | CONSTRUCTION *(If applicable)* |
|---|---|
| 2020 | 2021 |

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [ X ] Check if project performed with current firm

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

**b.**

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

Section F Project 5

| (2) YEAR COMPLETED PROFESSIONAL SERVICES | CONSTRUCTION *(If applicable)* |
|---|---|
| 2017 | 2017 |

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [ X ] Check if project performed with current firm

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: Electrical Engineer

**c.**

(1) TITLE AND LOCATION *(City and State)*
**Electrical and Fire Protection Engineering, Central Texas Area Office, Fort Hood Hospital Office & Fort Worth District Office | Texas**

Section F Project 7

| (2) YEAR COMPLETED PROFESSIONAL SERVICES | CONSTRUCTION *(If applicable)* |
|---|---|
| 2017 | 2017 |

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [ X ] Check if project performed with current firm

Scope: 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. 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. Cost: $466K Fee Role: Electrical Engineer

**d.**

(1) TITLE AND LOCATION *(City and State)*
**Fort Bliss Expansion Program Construction Phase Service - El Paso, TX**

| (2) YEAR COMPLETED PROFESSIONAL SERVICES | CONSTRUCTION *(If applicable)* |
|---|---|
| 2013 | 2013 |

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [ X ] Check if project performed with current firm

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

**e.**

(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 | CONSTRUCTION *(If applicable)* |
|---|---|
| 2013 | 2016 |

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [ X ] Check if project performed with current firm

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

## E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

*(Complete one Section E for each key person.)*

KEY PERSONNEL

| 12. NAME | 13. ROLE IN THIS CONTRACT | 14. YEARS EXPERIENCE a. TOTAL | b. WITH CURRENT FIRM |
|---|---|---|---|
| **Jim Wilson, PE, LEED AP** | Civil Engineer | 33 | 9 |

15. FIRM NAME AND LOCATION *(City and State)*
MHZ JV | New Orleans, LA

| 16. EDUCATION *(Degree and Specialization)* | 17. CURRENT PROFESSIONAL REGISTRATION *(State and Discipline)* |
|---|---|
| Bachelor of Science, Civil Engineering, Michigan Technological University | Professional Engineer/Civil: TX (128376), LA (35456), MI (38800), FL (85114) LEED Accredited Professional |

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

**a.**

(1) TITLE AND LOCATION *(City and State)*
**Mississippi River and Tributaries (MR&T-C/I), Floodplain Mgmt Services (FPMS), & EPA Investigations Construction Mgmt Support Services | New Orleans, LA**

Section F Project 2

| (2) YEAR COMPLETED PROFESSIONAL SERVICES | CONSTRUCTION *(If applicable)* |
|---|---|
| 2020 | 2021 |

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — **[ X ]** Check if project performed with current firm

Scope: 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. 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: $2M Fee Role: Civil Engineer

**b.**

(1) TITLE AND LOCATION *(City and State)*
**Project Mgmt, Construction Mgmt and Quality Assurance Support for the Coastal Wetlands Planning, Protection, and Restoration Act (CWPPRA) | New Orleans, LA**

Section F Project 4

| (2) YEAR COMPLETED PROFESSIONAL SERVICES | CONSTRUCTION *(If applicable)* |
|---|---|
| 2020 | 2021 |

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — **[ X ]** Check if project performed with current firm

Scope: 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. 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: $540K Fee Role: Lead Civil Engineer

**c.**

(1) TITLE AND LOCATION *(City and State)*
**On-Site Management of Hydrologic Resources, Dare Bombing Range | Dare County, North Carolina**

Section F Project 10

| (2) YEAR COMPLETED PROFESSIONAL SERVICES | CONSTRUCTION *(If applicable)* |
|---|---|
| 2020 | 2021 |

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — **[ X ]** Check if project performed with current firm

Scope: Our team completed construction phase monitoring services of hydrologic improvements associated with the DCR Water Management Plan. Our staff performed construction oversight and monitoring for the sequencing and management of culvert maintenance and replacement at twenty-one (21) locations as prescribed by the DCR Water Management Plan and in accordance with the Navy safety restrictions and needs. 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: $2M Fee: $398K Role: Civil Engineer

**d.**

(1) TITLE AND LOCATION *(City and State)*
**Texas City I-Wall to T-Wall Conversion Design, Texas City, TX**

| (2) YEAR COMPLETED PROFESSIONAL SERVICES | CONSTRUCTION *(If applicable)* |
|---|---|
| 2021 | 2023 |

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — **[ X ]** Check if project performed with current firm

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: Civil Engineer

## E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

*(Complete one Section E for each key person.)*

KEY PERSONNEL

| 12. NAME | 13. ROLE IN THIS CONTRACT | 14. YEARS EXPERIENCE a. TOTAL | b. WITH CURRENT FIRM |
|---|---|---|---|
| **Bob Yokum, PE** | Structural Engineer | 41 | 10 |

15. FIRM NAME AND LOCATION *(City and State)*
MHZ JV | New Orleans, LA

16. EDUCATION *(Degree and Specialization)*
Master of Science, Civil Engineering, Tulane University
Bachelor of Science, Civil Engineering, University of New Orleans

17. CURRENT PROFESSIONAL REGISTRATION *(State and Discipline)*
Professional Engineer/Structural: 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

**a.**

(1) TITLE AND LOCATION *(City and State)*
**Mississippi River and Tributaries (MR&T-C/I), Floodplain Mgmt Services (FPMS), & EPA Investigations Construction Mgmt Support Services | New Orleans, LA**

Section E Project 2

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2020
CONSTRUCTION *(If applicable)*: 2021

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE
[ X ] Check if project performed with current firm

Scope: 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. Mr. Yokum has been providing structural 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: $2M Fee Role: Structural Engineer

**b.**

(1) TITLE AND LOCATION *(City and State)*
**Project Mgmt, Construction Mgmt and Quality Assurance Support for the Coastal Wetlands Planning, Protection, and Restoration Act (CWPPRA) | New Orleans, LA**

Section E Project 4

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2020
CONSTRUCTION *(If applicable)*: 2021

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE
[ X ] Check if project performed with current firm

Scope: 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. Mr. Wilson provided engineering during construction, site visits and shop drawing review for project elements. Cost: $540K Fee Role: Structural Engineer

**c.**

(1) TITLE AND LOCATION *(City and State)*
**On-Site Management of Hydrologic Resources, Dare Bombing Range | Dare County, North Carolina**

Section E Project 10

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2020
CONSTRUCTION *(If applicable)*: 2021

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE
[ X ] Check if project performed with current firm

Scope: Our team completed construction phase monitoring services of hydrologic improvements associated with the DCR Water Management Plan. Our staff performed construction oversight and monitoring for the sequencing and management of culvert maintenance and replacement at twenty-one (21) locations as prescribed by the DCR Water Management Plan and in accordance with the Navy safety restrictions and needs. Mr. Yokum is the lead structural engineer for the project and is currently providing engineering during construction and construction phase services. Cost: $2M Fee: $398K Role: Structural Engineer

**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)*: 2023

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE
[ X ] Check if project performed with current firm

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

## E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

*(Complete one Section E for each key person.)*

KEY PERSONNEL

| 12. NAME | 13. ROLE IN THIS CONTRACT | 14. YEARS EXPERIENCE a. TOTAL | b. WITH CURRENT FIRM |
|---|---|---|---|
| **Stephen Richards, PE** | Geotechnical Engineer | 50 | 31 |

15. FIRM NAME AND LOCATION *(City and State)*
ETTL Engineers & Consultants Inc | Tyler, Texas

16. EDUCATION *(Degree and Specialization)*
Bachelor of Science, Civil Engineering, Rutgers University

17. CURRENT PROFESSIONAL REGISTRATION *(State and Discipline)*
Professional Engineer/Civil: 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

**a.**

(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

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE
[ X ] Check if project performed with current firm

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

**b.**

(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

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE
[ X ] Check if project performed with current firm

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

**c.**

(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

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE
[ X ] Check if project performed with current firm

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

**d.**

(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

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE
[ X ] Check if project performed with current firm

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

## E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

*(Complete one Section E for each key person.)*

KEY PERSONNEL

| 12. NAME | 13. ROLE IN THIS CONTRACT | 14. YEARS EXPERIENCE a. TOTAL | b. WITH CURRENT FIRM |
|---|---|---|---|
| **Mitch Pillar, RPLS** | Survey | 40 | 37 |

15. FIRM NAME AND LOCATION *(City and State)*
MHZ JV | Dallas, TX

| 16. EDUCATION *(Degree and Specialization)* | 17. CURRENT PROFESSIONAL REGISTRATION *(State and Discipline)* |
|---|---|
| | Professional Land Surveyor: TX (#5491) |

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Mitch has experience as Survey Party Chief, Field Coordinator, Project Manager, and Survey Manager for a multitude of projects. He has executed and supervised boundary, topographic, and control surveys; right-of-way mapping; interior and exterior improvement surveys; route surveys; and accident surveys for court litigations. He has supervised field crews and drafters, provided data research (including use of GIS mapping products and Internet sources), boundary analysis, and prepared legal descriptions. He has used GPS surveying methods extensively and has routinely applied Laser Scanning or "High Definition Surveying."

## 19. RELEVANT PROJECTS

**a.**

(1) TITLE AND LOCATION *(City and State)*
**Fort Bliss Hospital Construction Phase Services - El Paso, TX**

Section E Project 3

| (2) YEAR COMPLETED PROFESSIONAL SERVICES | CONSTRUCTION *(If applicable)* |
|---|---|
| 2020 | 2021 |

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — **[ X ]** Check if project performed with current firm

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: Surveyor

**b.**

(1) TITLE AND LOCATION *(City and State)*
**Fort Bliss Expansion Program Construction Phase Service - El Paso, TX**

| (2) YEAR COMPLETED PROFESSIONAL SERVICES | CONSTRUCTION *(If applicable)* |
|---|---|
| 2013 | 2013 |

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — **[ X ]** Check if project performed with current firm

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: Surveyor

**c.**

(1) TITLE AND LOCATION *(City and State)*
**Bureau of Engraving and Printing Facility Expansion – Fort Worth, TX**

| (2) YEAR COMPLETED PROFESSIONAL SERVICES | CONSTRUCTION *(If applicable)* |
|---|---|
| 2018 | 2018 |

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — **[ X ]** Check if project performed with current firm

The $150M project will expand the BEP production facility by 250,000 SF and the administration area by 50,000 SF with an additional 70,000 SF of renovation. Site improvements include a new access control point, parking and redundant utility connections. Huitt-Zollars provided full design architecture and engineering services for the administration building and site improvements. The administration facility was designed in phases to allow temporary relocation of the 250 personnel working in the admin space. All new facilities were designed to meet all current ASHREA 90.1 and EISA 439, LEED principles were followed but not registered. **Design fee:** $2.12M **Role:** Mitch served as **Lead Registered Land Surveyor** for topographic and utility mapping to provide survey data to the design team in support of the improvement design. He directed the use of the Texas RTK Co-Op method of GPS surveying, allowing rapid and efficient data gathering over 20 acres of project area. He used the appropriate State Plane Coordinate projection and surface scaling in the preparation of the topographic survey base maps. He was responsible for coordinating with the utility providers in the area to locate the underground lines prior to survey.

**d.**

(1) TITLE AND LOCATION *(City and State)*
**TxDOT Pharr District Bridge Replacements, Multiple Locations**

| (2) YEAR COMPLETED PROFESSIONAL SERVICES | CONSTRUCTION *(If applicable)* |
|---|---|
| 2015 | N/A |

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — **[ X ]** Check if project performed with current firm

Huitt-Zollars is providing topographic survey and right of way surveys for eight bridge replacement projects in rural Brooks, Willacy, Cameron and Hidalgo, Counties. This work consisted of establishing horizontal and vertical control, roadway cross-sections, location and detail of existing structures and creek cross-sections. In addition, right of way mapping, parcel plats, meters and bounds descriptions were prepared for right of way and easement acquisition. **Role**: Surveyor; Mitch oversaw the survey team who performed a topographic survey for eight structures. The survey was prepared with the use of MicroStation and GeoPak software. The horizontal control was established with the use of GPS and tied to state plane coordinates. Mitch provided coordination of the team and quality review of the survey files.

**e.**

(1) TITLE AND LOCATION *(City and State)*
**Whole Barracks Complex – Fort Hood, TX**

| (2) YEAR COMPLETED PROFESSIONAL SERVICES | CONSTRUCTION *(If applicable)* |
|---|---|
| 2010 | 2011 |

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — **[ X ]** Check if project performed with current firm

Mitch provided surveying oversite with tasks including stablishing construction control monuments and benchmarks, field survey verification of contractor's grades and construction, survey of overhead electric line surveys for clearance confirmation, and emergency On-Call Surveys at contractor utility strikes. Cost: $100M Role: Surveyor

## E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

*(Complete one Section E for each key person.)*

KEY PERSONNEL

| 12. NAME | 13. ROLE IN THIS CONTRACT | 14. YEARS EXPERIENCE a. TOTAL | b. WITH CURRENT FIRM |
|---|---|---|---|
| **Nathan Turner** | Construction Scheduling | 15 | 5 |

15. FIRM NAME AND LOCATION *(City and State)*
MHZ JV | New Orleans, LA

| 16. EDUCATION *(Degree and Specialization)* | 17. CURRENT PROFESSIONAL REGISTRATION *(State and Discipline)* |
|---|---|
| Associate of Science, Computer Science, San Jacinto College | 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

**a.**

(1) TITLE AND LOCATION *(City and State)*
**Mississippi River and Tributaries (MR&T-C/I), Floodplain Mgmt Services (FPMS), & EPA Investigations Construction Mgmt Support Services | New Orleans, LA**

Section F Project 2

| (2) YEAR COMPLETED PROFESSIONAL SERVICES | CONSTRUCTION *(If applicable)* |
|---|---|
| 2020 | 2021 |

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — **[ X ]** Check if project performed with current firm

Scope: 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, Mississippi River Levee Construction, MRL Investigations Account, Bi-partisan Budget Act of 2018 projects and Floodplain Management Services Program. 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 schedulesost: $2M Fee Role: Scheduler

**b.**

(1) TITLE AND LOCATION *(City and State)*
**Project Mgmt, Construction Mgmt and Quality Assurance Support for the Coastal Wetlands Planning, Protection, and Restoration Act (CWPPRA) | New Orleans, LA**

Section F Project 4

| (2) YEAR COMPLETED PROFESSIONAL SERVICES | CONSTRUCTION *(If applicable)* |
|---|---|
| 2020 | 2021 |

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — **[ X ]** Check if project performed with current firm

Scope: 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. Mr. Wilson provided engineering during construction, site visits and shop drawing review for project elements. Cost: $540K Fee Role: Scheduler

**c.**

(1) TITLE AND LOCATION *(City and State)*
**HSDRRS Program Management and Scheduling, New Orleans, LA – USACE New Orleans District**

| (2) YEAR COMPLETED PROFESSIONAL SERVICES | CONSTRUCTION *(If applicable)* |
|---|---|
| 2018 | 2020 |

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — **[ X ]** Check if project performed with current firm

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

**d.**

(1) TITLE AND LOCATION *(City and State)*
**Bipartisan Budget Act of 2018 (BBA18) – Program Management and Scheduling Support, New Orleans, LA – USACE New Orleans District**

| (2) YEAR COMPLETED PROFESSIONAL SERVICES | CONSTRUCTION *(If applicable)* |
|---|---|
| 2020 | 2021 |

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — **[ X ]** Check if project performed with current firm

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

**e.**

(1) TITLE AND LOCATION *(City and State)*
**Bruce Power Nuclear Plant Primavera and Scheduling Support, Ontario, Canada**

| (2) YEAR COMPLETED PROFESSIONAL SERVICES | CONSTRUCTION *(If applicable)* |
|---|---|
| 2016 | 2018 |

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — **[ X ]** Check if project performed with current firm

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

## E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

*(Complete one Section E for each key person.)*

KEY PERSONNEL

| 12. NAME | 13. ROLE IN THIS CONTRACT | 14. YEARS EXPERIENCE a. TOTAL | b. WITH CURRENT FIRM |
|---|---|---|---|
| **Joe Wells, RA, RID** | Interior Design | 36 | 15 |

15. FIRM NAME AND LOCATION *(City and State)*
MHZ JV | Fort Worth, TX

| 16. EDUCATION *(Degree and Specialization)* | 17. CURRENT PROFESSIONAL REGISTRATION *(State and Discipline)* |
|---|---|
| Bachelor of Architecture, Texas Tech University | Registered Architect: TX (#14503), NM (#2670), AR (#2972)<br>Registered Interior Designer: TX (#7748) |

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Joe is one of our most experienced interior designers and architects having been directly responsible for the development of over 50 design-build RFPs utilizing the RFP Wizard on nearly 100 task orders from 2006-2013 associated with the $4.8B Fort Bliss Expansion Program. He worked directly with the Huntsville Center on edits within the Wizard and providing critical feedback on the usability and customization of the system. As an Architect, he has developed a specialization in vertical military design projects. He has both Air Force and Army design experience and extensive Air Force Condition Assessment experience. Wells has experience with complex building types and coordination of multi-discipline teams. He has an excellent understanding of the UFCs, IBC and TMs as the related to all types of facility and site design. He as assisted USACE in construction phase services of his designs.

## 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
[ X ] Check if project performed with current firm

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: Interior Designer

**b.**

(1) TITLE AND LOCATION *(City and State)*
**Multidiscipline Design or Other Professional Services Required to Support Military Construction Projects within the Southwest Region (Primarily Fort Bliss, TX)**

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2013
CONSTRUCTION *(If applicable)*: 2013

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE
[ X ] Check if project performed with current firm

Follow-on contract to a JV in which HZ provided design services, integration, construction management services for the Fort Bliss Expansion Program. Projects completed were primarily in connection with the Infantry Brigade Combat Team 1 and 2, HBCT 3, Fires Brigade, and Towne Center, Division HQ and Fitness Center, Main Cantonment Infill projects and WSMR Ranges. Size: 115 Task Order, $95M (contract value); $4.8B Construction; Role: RFP Developer and Project Manager

**c.**

(1) TITLE AND LOCATION *(City and State)*
**Directorate of Emergency Services Headquarters & Police Station, White Sands Missile Range, New Mexico**

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2013
CONSTRUCTION *(If applicable)*: 2013

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE
[ X ] Check if project performed with current firm

As the Lead Interior Designer for this full design, Joe directed the architectural staff in all design elements. He was responsible for the development of the program and new floor plans. He worked with the DES staff to refine the floor plans and site layout to ensure the facility would be constructed within the CCL. He worked with the WSMR DPW architect to develop the architectural theme and specifications of exterior building materials and interior finishes. He was responsible for the SID, CID and FFE coordination. He worked with the architectural staff in the development of the construction documents, architectural specifications in SpecsIntact, cut sheets for all architectural elements, SID and CID packages and REVIT model for the BIM submittal. He worked with the cost estimator on the MII estimates. Cost: $1.37M Fee Role: Interior Designer

**d.**

(1) TITLE AND LOCATION *(City and State)*
**Maneuver Systems Sustainment Center, Red River Army Depot – Texarkana, TX**

(2) YEAR COMPLETED
PROFESSIONAL SERVICES: 2012
CONSTRUCTION *(If applicable)*: 2014

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE
[ X ] Check if project performed with current firm

The MSSC is a premier tactical wheeled vehicle repair center to support joint transformation and future combat systems. The functions served by the facility include disassembly, rebuild, overhaul, remanufacture, recapitalization, technology insertion, metal finishing, body repair, painting and preparation of present and future tactical vehicles, including their major components and control systems. This project is an example of a recent major vehicle maintenance facility dedicated to a wide range of army tactical vehicles. It required the specification and coordination with building elements of a significant amount of specialized process equipment (about $20 million of the overall budget). Size: 377,000 SF | Cost: $70M | Role: As Quality Control Manager, Joe oversaw the Quality Control process, verifying coordination between disciplines, conducting technical coordination meetings, and monitoring compliance with USACE and Huitt-Zollars design standards.

# PART I

# SECTION F

## 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: **1**

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

**Construction Phase Engineering & Quality Assurance Support for Construction Projects at Central Oklahoma Area Office**
Contract Number W912BV18D0012, Task Order Number W912BV19F0037

22. YEAR COMPLETED

| PROFESSIONAL SERVICES | CONSTRUCTION *(If applicable)* |
|---|---|
| 2023 | 2023 |

### 23. PROJECT OWNER'S INFORMATION

| a. PROJECT OWNER | b. POINT OF CONTACT NAME | c. POINT OF CONTACT TELEPHONE NUMBER |
|---|---|---|
| USACE Tulsa District | Taylor Mann, Chief, CM Section | 918-669-4382 (office), 918-625-6052 (cell) |

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

**GENERAL**

In 2019, in a Joint Venture with one other firm, we entered into a $20 M capacity IDC under Tulsa District to provide Construction Phase Services in support of Military and Civil Works project primarily in the SWT AOR. The term of that contract will expire in 2023. Under the SOW of the IDC our team is to provide supervision, inspection, and technical assistance to Tulsa District through personnel experienced in construction phase documentation using the Resident Management System (RMS). Services are to include field observation of construction progress, review of construction contractor submittals including shop drawings, review of value engineering proposals, scope definition according to construction documents produced by others, and schedule evaluation. Our role included provision of the Program Manager and Point of Contact (POC) for the IDC, Craig Trimble.

**SCOPE OF SERVICES**

Under the task order that is the subject of this project description (Task Order #W912BV19F0037), we are to provide senior level Quality Assurance Representatives in the field to support the District and its Central Oklahoma Area Office, specifically to the Resident Engineer at Tinker AFB for the oversight of the extraordinary level of construction projects at that installation. The task order is for a five-year term, beginning in January, 2019, and since we are mid-way through the fourth year, we estimate that we are over 75% complete.

The scope of work for this task order includes the provision of three QAR's for the first two years, which level of effort was reduced to two QAR's for the final three years. Oversight responsibilities have included a wide range of projects, from aircraft hangars to IT facilities, and all services anticipated in the IDC scope of work have been provided. QAR's were responsible for documentation of all work on each of their projects in WINRMS on a daily basis, documenting activities in progress by schedule activity number, inspections witnessed (preparatory, initial, and follow up) and results of the inspections. Weekly and monthly summary reports to the Resident Engineer are also required.

QAR's complied with special Antiterrorsim/Operation Security Requirements, as follows: AT Level 1 training; access and general protection/security policy and procedures; iWATCH and/or CorpsWatch training; ATCTS registration; OPSEC Standing Operating Procedure Plan and training; and DOD IA awareness training.

### PROJECT DETAILS

**Total Fee:** $1,463,984 (75% Complete)
**% of Work:** 50%
**Size:** 2-3 Full-Time Personnel

### RELEVANCE TO THIS CONTRACT

- USACE Task Order
- Contracted with Tulsa District for CPS Services
- Located in Tulsa District AOR
- Over 50% Complete in Last 5 Years
- Fee over $1 M
- Military Construction
- New Construction and Renovation Projects

### SPECIFIC WORK

- Three-Phase Inspection System
- WINRMS
- Onsite review of contractor submitted shop drawings
- Onsite evaluation of construction methods and materials
- Onsite interpretation of plans and specifications
- Daily evaluation of jobsite safety
- Onsite evaluation of construction progress
- Daily onsite evaluation of construction for conformance with applicable building codes

### 25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

| | (1) FIRM NAME | (2) FIRM LOCATION *(City and State)* | (3) ROLE |
|---|---|---|---|
| a. | Huitt-Zollars, Inc. | Fort Worth, TX | Prime A-E and Program Management |

## 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: **2**

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

22. YEAR COMPLETED

| PROFESSIONAL SERVICES | CONSTRUCTION *(If applicable)* |
|---|---|
| 2020 | 2021 |

### 23. PROJECT OWNER'S INFORMATION

| a. PROJECT OWNER | b. POINT OF CONTACT NAME | c. POINT OF CONTACT TELEPHONE NUMBER |
|---|---|---|
| USACE New Orleans District | Nick Sims, Assistant Deputy District Engineer | 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 construction 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 • 100% of Fee 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.

### PROJECT DETAILS

**Total Fee:** $2,000,000
**% of Work:** 100%
**Size:** 6 full-time Personnel

### RELEVANCE TO THIS CONTRACT

- USACE Task Order
- Located in SWD AOR
- Completed within 5 years
- Fee Over $1M
- Civil Works
- New Construction (> 20K SF)
- Renovation (> 20K SF)
- Multiple Site Greater Than 5 mi. Apart
- MII Cost Estimates

### SPECIFIC WORK

- Three-Phase Inspection System
- WINRMS
- Onsite review of contractor submitted shop drawings
- Onsite evaluation of construction methods and materials
- Onsite interpretation of plans and specifications
- Daily evaluation of jobsite safety
- Onsite evaluation of construction progress
- Daily onsite evaluation of construction for conformance with applicable building codes

### 25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

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

## 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: **3**

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

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

22. YEAR COMPLETED

| PROFESSIONAL SERVICES | CONSTRUCTION *(If applicable)* |
|---|---|
| 2020 | 2021 |

### 23. PROJECT OWNER'S INFORMATION

| a. PROJECT OWNER | b. POINT OF CONTACT NAME | c. POINT OF CONTACT TELEPHONE NUMBER |
|---|---|---|
| USACE Fort Worth District | Peter Matar | 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.

### PROJECT DETAILS

**Total Fee:** $17,920,738
**% of Work:** 99.7%
**Size:** 1.13M SF, 27 Full Time Personnel

### RELEVANCE TO THIS CONTRACT

- USACE Task Order
- Located in SWD AOR
- Completed within 5 years
- Fee Over $1M
- New Construction (> 20K SF)
- MII Cost Estimates

### SPECIFIC WORK

- Three-Phase Inspection System
- WINRMS
- Onsite review of contractor submitted shop drawings
- Onsite evaluation of construction methods and materials
- Onsite interpretation of plans and specifications
- Daily evaluation of jobsite safety
- Onsite evaluation of construction progress
- Daily onsite evaluation of construction for conformance with applicable building codes

### 25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

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

## 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: **4**

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**

22. YEAR COMPLETED

| PROFESSIONAL SERVICES | CONSTRUCTION *(If applicable)* |
|---|---|
| 2020 | 2021 |

### 23. PROJECT OWNER'S INFORMATION

| a. PROJECT OWNER | b. POINT OF CONTACT NAME | c. POINT OF CONTACT TELEPHONE NUMBER |
|---|---|---|
| USACE New Orleans District | Bobby Duplantier, Project Manager | 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.

### PROJECT DETAILS

**Total Fee:** $540,000
**% of Work:** 100%
**Size:** 1.13M SF, 27 Full Time Personnel

### RELEVANCE TO THIS CONTRACT

- USACE Task Order
- Fee Over $300K
- Civil Works
- New Construction (> 20K SF)
- Renovation (>20K SF)
- Located in SWD AOR

### SPECIFIC WORK

- Three-Phase Inspection System
- WINRMS
- Onsite review of contractor submitted shop drawings
- Onsite evaluation of construction methods and materials
- Onsite interpretation of plans and specifications
- Daily evaluation of jobsite safety
- Onsite evaluation of construction progress
- Daily onsite evaluation of construction for conformance with applicable building codes

### 25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

| | (1) FIRM NAME | (2) FIRM LOCATION *(City and State)* | (3) ROLE |
|---|---|---|---|
| a. | Huitt-Zollars/Michael Baker International JV | Dallas & Fort Worth, TX | Full Architecture & Engineering |

## 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: **5**

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

22. YEAR COMPLETED

| PROFESSIONAL SERVICES | CONSTRUCTION *(If applicable)* |
|---|---|
| 2017 | 2017 |

### 23. PROJECT OWNER'S INFORMATION

| a. PROJECT OWNER | b. POINT OF CONTACT NAME | c. POINT OF CONTACT TELEPHONE NUMBER |
|---|---|---|
| USACE Fort Worth District | Cortney Dickmann, PMP | 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.

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 our was assigned to Fort Sam Houston and Lackland AFB projects. He was responsible for quality predesign 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.

### PROJECT DETAILS

**Total Fee:** $3,089,133
**% of Work:** 83.4%
**Size:** 17 Full Time Personnel

### RELEVANCE TO THIS CONTRACT

- USACE Task Order
- Located in SWD AOR
- Completed within 5 years
- Fee Over $1M
- New Construction (> 20K SF)
- Renovation (> 20K SF)
- Multiple Site Greater Than 5 mi. Apart
- MII Cost Estimates

### SPECIFIC WORK

- Three-Phase Inspection System
- WINRMS
- Onsite review of contractor submitted shop drawings
- Onsite evaluation of construction methods and materials
- Onsite interpretation of plans and specifications
- Daily evaluation of jobsite safety
- Onsite evaluation of construction progress
- Daily onsite evaluation of construction for conformance with applicable building codes

### 25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

| | (1) FIRM NAME | (2) FIRM LOCATION *(City and State)* | (3) ROLE |
|---|---|---|---|
| a. | Huitt-Zollars, Inc. | Fort Worth, TX | **Prime** |

## 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: **6**

| 21. TITLE AND LOCATION *(City and State)* | 22. YEAR COMPLETED | |
|---|---|---|
| | PROFESSIONAL SERVICES | CONSTRUCTION *(If applicable)* |
| **Quality Assurance (QA) Support and Construction Project Scheduling Support for Task Force Barrier \| El Paso, TX/Yuma, Arizona Contract No: W912P718D0006; TO W912P719F0026** | 2021 | 2022 |

### 23. PROJECT OWNER'S INFORMATION

| a. PROJECT OWNER | b. POINT OF CONTACT NAME | c. POINT OF CONTACT TELEPHONE NUMBER |
|---|---|---|
| USACE San Francisco District | Mary Fronck | 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.

### PROJECT DETAILS

**Total Fee:** $13,446,775
**% of Work:** 86.2%
**Size:** 60 Miles, 9 Full Time Personnel

### RELEVANCE TO THIS CONTRACT

- USACE Task Order
- Located in SWD AOR
- Completed within 5 years
- Fee Over $1M
- New Construction (> 20K SF)

### SPECIFIC WORK

- Three-Phase Inspection System
- WINRMS
- Onsite review of contractor submitted shop drawings
- Onsite evaluation of construction methods and materials
- Onsite interpretation of plans and specifications
- Daily evaluation of jobsite safety
- Onsite evaluation of construction progress
- Daily onsite evaluation of construction for conformance with applicable building codes

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 constructibility 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.

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.

### 25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

| | (1) FIRM NAME | (2) FIRM LOCATION *(City and State)* | (3) ROLE |
|---|---|---|---|
| a. | Huitt-Zollars, Inc. | Fort Worth, TX | **Program Management** |

## 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 | CONSTRUCTION *(If applicable)* |
|---|---|
| 2017 | 2017 |

### 23. PROJECT OWNER'S INFORMATION

| a. PROJECT OWNER | b. POINT OF CONTACT NAME | c. POINT OF CONTACT TELEPHONE NUMBER |
|---|---|---|
| USACE Fort Worth District | Cortney Dickmann, PMP | 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.

The on site electrical engineer assisted the Fort Hood Hospital Office with contract modifications, progress payments, daily construction inspections and RFI's 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.

### PROJECT DETAILS

**Total Fee:** $466,271
**% of Work:** 98.9%
**Size:** 2 Full-Time Personnel

### RELEVANCE TO THIS CONTRACT

- USACE Task Order
- Located in SWD AOR
- Completed within 5 years
- New Construction (> 20K SF)
- Renovation (> 20K SF)
- Multiple Site Greater Than 5 mi. Apart

### SPECIFIC WORK

- Three-Phase Inspection System
- WINRMS
- Onsite review of contractor submitted shop drawings
- Onsite evaluation of construction methods and materials
- Onsite interpretation of plans and specifications
- Daily evaluation of jobsite safety
- Onsite evaluation of construction progress
- Daily onsite evaluation of construction for conformance with applicable building codes

### 25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

| | (1) FIRM NAME | (2) FIRM LOCATION *(City and State)* | (3) ROLE |
|---|---|---|---|
| a. | Huitt-Zollars, Inc. | Fort Worth, TX | **Prime - Project Management & CPS Staff** |

## 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: **8**

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**

22. YEAR COMPLETED

| PROFESSIONAL SERVICES | CONSTRUCTION *(If applicable)* |
|---|---|
| 2017 | 2017 |

### 23. PROJECT OWNER'S INFORMATION

| a. PROJECT OWNER | b. POINT OF CONTACT NAME | c. POINT OF CONTACT TELEPHONE NUMBER |
|---|---|---|
| USACE Fort Worth District | Cortney Dickmann, PMP | 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.

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.

### PROJECT DETAILS

**Total Fee:** $676,089
**% of Work:** 97.5%
**Size:** 2 Full Time Personnel

### RELEVANCE TO THIS CONTRACT

- USACE Task Order
- Located in SWD AOR
- Completed within 5 years
- New Construction (> 20K SF)
- Renovation (> 20K SF)
- Multiple Site Greater Than 5 mi. Apart

### SPECIFIC WORK

- Three-Phase Inspection System
- WINRMS
- Onsite review of contractor submitted shop drawings
- Onsite evaluation of construction methods and materials
- Onsite interpretation of plans and specifications
- Daily evaluation of jobsite safety
- Onsite evaluation of construction progress
- Daily onsite evaluation of construction for conformance with applicable building codes

### 25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

| | (1) FIRM NAME | (2) FIRM LOCATION *(City and State)* | (3) ROLE |
|---|---|---|---|
| a. | Huitt-Zollars, Inc. | Fort Worth, TX | **Prime** |

## 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: **9**

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

**Quality Assurance Support for the Border Program | San Diego, California**
Contract No: W912P718D0006; TO W912P720F0022

22. YEAR COMPLETED

| PROFESSIONAL SERVICES | CONSTRUCTION *(If applicable)* |
|---|---|
| 2021 | 2021 |

### 23. PROJECT OWNER'S INFORMATION

| a. PROJECT OWNER | b. POINT OF CONTACT NAME | c. POINT OF CONTACT TELEPHONE NUMBER |
|---|---|---|
| USACE Fort Worth District | Matthew Milliorn | 817-886-1903 |

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

Our team has served 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 providing program (P6) master scheduling through multiple task orders. This task order provided a team for the oversight of 5 miles of 'gap filling' in the border wall across 25 miles of the San Diego Sector. These projects have all stopped work due to the President's executive order to pause all border construction on 1/21/21.

Craig Trimble, our proposed program manager for this contract, lead all JV efforts on this program for management support including Risk Management and Safety reporting from the field teams of Construction Inspectors and oversight of our scheduling team mobilizing and deployments to the field. 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 4 Construction Management personnel deployed in the San Diego sector for 12 months. Our field team was led by a Senior Construction Manager in the field who was responsible to USACE's Area Manager for coordinating each team's staffing, shifts and quality of deliverable on daily reporting. This team included a Senior Construction Manager, two Senior Quality Assurance Inspectors and a mid-level Quality Assurance Inspector. The team was 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. 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.

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. Ilegal alien entry is an inevitability during construction. The safety and behavioral protocols for this activity had to be defined in our HASAP (Health and Safety Action Plan) in coordination with CBP and their enforcement activities. We had numerous instances of this happening but one of the most impactful was during a foundation pour that even threatened continued production from the nearby concrete batching plant. Our Construction Inspection team immediately notified CBP under our reporting protocols and worked with the General Contractor's security staff to continue operations and to ensure safety protocols were followed for workers and civilians.

### PROJECT DETAILS

**Total Fee:** $1,851,339
**% of Work:** 69%
**Size:** 5 Miles

### RELEVANCE TO THIS CONTRACT

- USACE Task Order
- Completed within 5 years
- Fee Over $1M
- New Construction (> 20K SF)
- MII Cost Estimates

### SPECIFIC WORK

- Three-Phase Inspection System
- WINRMS
- Onsite review of contractor submitted shop drawings
- Onsite evaluation of construction methods and materials
- Onsite interpretation of plans and specifications
- Daily evaluation of jobsite safety
- Onsite evaluation of construction progress
- Daily onsite evaluation of construction for conformance with applicable building codes

### 25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

| | (1) FIRM NAME | (2) FIRM LOCATION *(City and State)* | (3) ROLE |
|---|---|---|---|
| a. | Huitt-Zollars, Inc. | Fort Worth, TX | **Prime Engineering Consultant** |

## 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: **10**

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

**On-Site Management of Hydrologic Resources, Dare Bombing Range | Dare County, North Carolina**
Contract #: W912P819D0011, TO W912P820F0150

22. YEAR COMPLETED

| PROFESSIONAL SERVICES | CONSTRUCTION *(If applicable)* |
|---|---|
| 2020 | 2021 |

### 23. PROJECT OWNER'S INFORMATION

| a. PROJECT OWNER | b. POINT OF CONTACT NAME | c. POINT OF CONTACT TELEPHONE NUMBER |
|---|---|---|
| USACE New Orleans District | Bobby Duplantier, Project Manager | 504-472-4812 |

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

Our team completed construction phase monitoring services of hydrologic improvements associated with the DCR Water Management Plan, the results of a Range-wide hydrology study completed in 2013. Our staff performed construction oversight and monitoring for the sequencing and management of culvert maintenance and replacement at twenty-one (21) locations as prescribed by the DCR Water Management Plan and in accordance with the Navy safety restrictions and needs. The focus of culvert maintenance and replacement was on the 'Bowtie' area of the range with consultation with the DCR Natural Resources Manager. In addition to the Bowtie area, construction phase services were implemented for the schedule and coordination of culvert maintenance and upgrades on Beechland and Navy Lead Roads, as these areas directly impacted the water regime of the Navy impact area. Overall, twenty-four (24) culverts were replaced as part of the project, and water surface elevation markers were installed on perimeter control structures for planned future hydrologic improvements. Our team documented daily progress, received and approved contractor shop drawings and submittals and held daily construction safety and progress meetings.

In addition to Construction Management Services, our team also provided the Navy with Program Management services, inclusive of NEPA compliance. The team completed required NEPA documentation for the project. Planning documents were developed as an Endangered Species Management Plan was developed to discuss potential project and site impacts to the Red Cockaded Woodpecker. Survey data collected in the field during construction phase activities were relayed to the NEPA team for incorporation into the NEPA documentation. Hydrologic improvements were changed based on observed nesting activities of individual woodpeckers and field changes were made by our team to maintain the project schedule during construction. Quality control plans were developed and updated during construction due to these changes. While providing Construction Administration services, the team was able to remove several water control structures within the Range that had previously impounded water. This led to increased habitat production in certain areas of the Range that were not used for training purposes.

JV team member MSMM performed 100% of the construction phase and NEPA phase services for this project. Construction was completed in July 2021.

### PROJECT DETAILS

**Total Fee:** $398,273
**% of Work:** 100%
**Size:** 21 locations

### RELEVANCE TO THIS CONTRACT

- USACE Task Order
- Completed within 5 years
- MII Cost Estimates

### SPECIFIC WORK

- Three-Phase Inspection System
- WINRMS
- Onsite review of contractor submitted shop drawings
- Onsite evaluation of construction methods and materials
- Onsite interpretation of plans and specifications
- Daily evaluation of jobsite safety
- Onsite evaluation of construction progress
- Daily onsite evaluation of construction for conformance with applicable building codes

### 25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

| | (1) FIRM NAME | (2) FIRM LOCATION *(City and State)* | (3) ROLE |
|---|---|---|---|
| a. | MSMM Engineering, LLC | New Orleans, LA | **Sub – Construction Management, NEPA Compliance (100% Self Performed)** |

# PART I

# SECTION G

## G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS

| 26. NAMES OF KEY PERSONNEL *(From Section E, Block 12)* | 27. ROLE IN THIS CONTRACT *(From Section E, Block 13)* | 28. EXAMPLE PROJECTS LISTED IN SECTION F *(Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)* | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Manish Mardia, PE \| MHZ JV *(New Orleans, LA)* | Project Manager | | X | X | | | | | | | X |
| Craig Trimble, AIA \| MHZ JV *(Fort Worth, TX)* | Construction Manager | X | | X | | X | X | | | X | |
| Bob Sims, RA, CQM \| MHZ JV *(Fort Worth, TX)* | Architect | | | X | | X | X | | X | | |
| Shawn Moehring, PE \| MHZ JV *(Fort Worth, TX)* | Mechanical Engineer | | | X | | X | | X | X | | |
| David Meier, PE, FPE, LEED AP, CIPE \| MHZ JV *(Fort Worth, TX)* | Fire Protection Engineer | | | X | | | | | | | |
| Carlos Arguijo, PE, LEED AP BD+C, CxA, CQM \| MHZ JV *(El Paso, TX)* | Commissioning | | | X | | | | | | | |
| Scott Parma, PE, LEED AP \| MHZ JV *(Fort Worth, TX)* | Electrical Engineer | | | X | | X | | X | | | |
| Jim Wilson, PE, LEED AP \| MHZ JV *(New Orleans, LA)* | Civil Engineer | | X | | X | | | | | | X |
| Bob Yokum, PE \| MHZ JV *(New Orleans, LA)* | Structural Engineer | | X | | X | | | | | | X |
| Stephen Richards, PE \| ETTL Engineers & Consultants *(Tyler, TX)* | Geotechnical Engineer | | | | | | | | | | |
| Mitch Pillar, RPLS \| MHZ JV *(Fort Worth, TX)* | Surveyor | | | X | | | | | | | |
| Nathan Turner \| MHZ JV *(Fort Worth, TX)* | Construction Scheduling | | X | | X | | | | | | |
| Joe Wells, RA, RID \| MHZ JV *(Fort Worth, TX)* | Interior Designer | | | X | | | | | | | |

## 29. EXAMPLE PROJECTS KEY

| NUMBER | TITLE OF EXAMPLE PROJECT *(From Section F)* | NUMBER | TITLE OF EXAMPLE PROJECT *(From Section F)* |
|---|---|---|---|
| 1 | Construction Phase Engineering & Quality Assurance Support for Construction Projects at Central Oklahoma Area Office | 6 | Quality Assurance (QA) Support and Construction Project Scheduling Support for Task Force Barrier \| El Paso, TX/Yuma, Arizona |
| 2 | Mississippi River and Tributaries (MR&T-C/I), Floodplain Management Services (FPMS), & EPA Investigations Construction Management Support Services \| New Orleans, LA | 7 | Electrical and Fire Protection Engineering, Central Texas Area Office, Fort Hood Hospital Office & Fort Worth District Office \| Texas |
| 3 | Fort Bliss Hospital Construction Phase Services \| El Paso, Texas | 8 | Construction Quality Assurance Assistance, Southwest Area Office (SWAO) Sites \| Multiple Locations, Texas & New Mexico |
| 4 | Project Management, Construction Management and Quality Assurance Support for the Coastal Wetlands Planning, Protection, and Restoration Act (CWPPRA) \| New Orleans, LA | 9 | Quality Assurance Support for the Border Program \| San Diego, California |
| 5 | 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 | 10 | On-Site Management of Hydrologic Resources, Dare Bombing Range \| Dare County, North Carolina |

# PART I

# SECTIONS H - I

## H. ADDITIONAL INFORMATION

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

# INTRODUCTION TO THE MSMM AND HUITT-ZOLLARS JV TEAM

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 Huitt-Zollars, Inc., headquartered in Dallas, TX, both with several offices throughout the Southwest Division AOR, including Oklahoma City, OK. Both partner firms are full-service design and management firms specializing in military construction and civil works projects for USACE. Our combined resources offer Tulsa District a full-service team with a deep portfolio in Federal IDIQ contracts generally, and completed USACE task orders in SWD AOR, specifically.

This is not a new team, embarking on its first contract together. We formed our JV over three years ago and have been selected for six IDIQ's in the Joint Venture's name, including with Tulsa District, AFCEC (Pool 2 Facilities), Fort Worth District (three separate contracts as JV), and the Department of Interior/Fish & Wildlife Service. We hold Construction Phase Services contracts at Fort Worth District, in both the Unrestricted category (as Huitt-Zollars, with MSMM a named sub-consultant) and Small Business Set-Aside (as MHZ). And of particular interest are our current IDIQ's with Tulsa District for both A-E design services and Construction Phase Services.

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, New Orleans, and Albuquerque, in addition to our ongoing work directly with Tulsa District, with whom we hold multiple contracts. **Our JV's offices focus the bulk of our professional resources in the SWD AOR, 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 SWT 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 Expansion program in 2006, we have also provided construction phase services (CPS) to USACE 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 USACE's mission, both in the field and co-located in the office. **An example of this kind of experience is our current task order with Tulsa District to provide QAR support at Tinker AFB (Section F, Project #1).**

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

- Unparalleled track record with USACE/SWD over the last 15 years;
- Consummate success with major recent USACE programs, for both SWT and other district offices;
- Extensive portfolio of recent experience providing Construction Phase Services to USACE under multiple USACE IDIQ contracts. Including SWT;
- Concentration of resources primarily in the states comprising the SWD AOR, including Oklahoma;
- Proven track record together as a JV team; 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 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 team 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.

**And, as always, our entire team is dedicated to your success.**

In addition, the prime A-E prime team will be complemented by two firms that will serve as sub-consultants on this contract, both of which our Joint Venture has had extensive experience working with on past USACE assignments.

- **ETTL Engineers and Consultants, Inc.,** Tyler, TX, a WOSB firm, will provide Geotechnical and Environmental Engineering, including soils testing, and construction materials testing.
- **Michael Baker International (MBI)**, a national A-E practice of over 3,000 professional staff and frequent associate of the two JV partner firms will make its depth of resources available to the JV across the board in all of the technical disciplines, on an as-needed basis. The JV team is currently engaged on 6-IDIQ contracts with MBI.
- **Hunter Pacific Group** with offices in Texas, Virginia and California has extensive experience in providing cost estimating focused on the MEP disciplines cost and schedule risk analysis (CSRA) mitigation. They are skilled at applying predictive analytics to identify, model, and mitigate project risks and utilizing Primavera P6 and Time Impact Analysis. In addition, they have expertise Mechanical, Electrical and Plumbing, cybersecurity, building security, communications, surveillance, or utility and energy management systems who perform commissioning services on federal facilities..

## H. ADDITIONAL INFORMATION

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# (a) SPECIALIZED EXPERIENCE AND TECHNICAL COMPETENCE

The ten projects featured in Section F of this document describe the assignments that most closely comport with the necessary ingredients for success on this contract, as well as meeting or exceeding all of your minimum requirements. All of the ten projects are task orders completed for the Corps of Engineers, most of them within the USACE Southwest Division AOR. All are very recent projects, having been completed since 2017, largely by the staff that we are proposing to be members of the team assigned to this contract. In addition, the majority of these ten task orders had fees over $1 million; with fees ranging from $1 to $17 million, this means that our team provided from 3 to 25 for periods up to five years.

Beyond these salient features, our ten F projects include a balanced mix of civil works and military construction (and even IIS and staff augmentation) assignments, demonstrating that our team is prepared for any kind of project that you can throw our way. For our vertical construction assignments, we have experienced a balance of new construction and renovation work. Logistically, we have successfully managed to staff large field teams in extremely remote and inaccessible locations for long periods of time. Many of these assignments required multiple teams to be simultaneously assigned to multiple sites.

| SECTION F PROJECT | USACE Task Order | SWD AOR Location | Completed Last 5 Years | Fee >$1M | Civil Works | Military Construction | New Construction | Renovation | Multiple Sites |
|---|---|---|---|---|---|---|---|---|---|
| 1. Construction Phase Engineering & Quality Assurance Support for Construction Projects at Central Oklahoma Area Office \| Tinker AFB, OK | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| 2. Mississippi River and Tributaries (MR&T-C/I), Floodplain Management Services (FPMS), & EPA Investigations Construction Management Support Services \| New Orleans, LA | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ |
| 3. Fort Bliss Hospital Construction Phase Services \| El Paso, Texas | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | | |
| 4. Project Management, Construction Management and Quality Assurance Support for the Coastal Wetlands Planning, Protection, and Restoration Act (CWPPRA) \| New Orleans, LA | ✓ | ✓ | ✓ | | ✓ | | ✓ | ✓ | ✓ |
| 5. 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 | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| 6. Quality Assurance (QA) Support and Construction Project Scheduling Support for Task Force Barrier \| El Paso, TX/Yuma, Arizona | ✓ | ✓ | ✓ | ✓ | | | ✓ | | ✓ |
| 7. Electrical and Fire Protection Engineering, Central Texas Area Office, Fort Hood Hospital Office & Fort Worth District Office \| Texas | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | |
| 8. Construction Quality Assurance Assistance, Southwest Area Office (SWAO) Sites \| Multiple Locations, Texas & New Mexico | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| 9. Quality Assurance Support for the Border Program \| San Diego, California | ✓ | | ✓ | ✓ | | | ✓ | | ✓ |
| 10. On-Site Management of Hydrologic Resources, Dare Bombing Range \| Dare County, North Carolina | ✓ | | ✓ | | ✓ | | | | |

These ten projects represent some of our best and most relevant project experience, though nowhere near all of that experience. Accordingly, provided below is additional material related to the relevant project experience of our 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.

### Ft. Bliss Expansion Program Construction Phase Services

We served in joint venture with one other firm as Land Development Engineer on this $4.8 billion program, which encompassed more than 300 new facilities and 5,500 acres of site development and infrastructure. Construction Phase Services scope of work included quality assurance, project controls and scheduling, and on-site inspections. At the peak of construction of this program, our team delivered over $20 million of in-place construction per week for nearly 18 months. Construction began in 2006 and lasted through 2013, during which time **we fielded an on-site team of as many as 43 construction professionals (in addition to those provided by our JV partner)**. Field services adhered to the USACE 3 Phase Inspection Systems (Preparatory, Initial, and Follow-Up Inspections). Day-to-day construction oversight and inspection scope of work included daily project reporting and documentation of activities and inspections into the Resident Management System (RMS).

### 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.

### 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.

## H. ADDITIONAL INFORMATION

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### 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.

## 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

## H. ADDITIONAL INFORMATION

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# (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 13 proposed team members is 34 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 in the SWD 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 12.5 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 | Registration | Training/ Certification | Years Exp. | Years with Firm | Relevant Experience | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | USACE SWD | CPS Military | CPS Civil Works |
| Manish Mardia, PE \| Project Manager | MS, BS | PE | | 27 | 10 | ✓ | ✓ | ✓ |
| Craig Trimble, AIA \| Construction Manager | BArch | RA | | 46 | 5 | ✓ | ✓ | ✓ |
| Bob Sims, RA, CQM \| Architect | BArch | RA | | 46 | 9 | ✓ | ✓ | |
| Shawn Moehring, PE \| Mechanical Engineer | BS, BS | PE | | 17 | 7 | ✓ | ✓ | |
| David Meier, PE, FPE, LEED AP, CIPE \| Fire Protection Engineer | BS | PE, FPE | LEED AP, CIPE | 32 | 2 | ✓ | ✓ | ✓ |
| Carlos Arguijo, PE, LEED AP BD+C, CxA, CQM \| Commissioning | MBA, BS | PE, CxA | LEED AP, CQM | 20 | 5 | ✓ | ✓ | |
| Scott Parma, PE, LEED AP \| Electrical Engineer | BS | PE | LEED AP | 41 | 18 | ✓ | ✓ | ✓ |
| Jim Wilson, PE, LEED AP \| Civil Engineer | BS | PE | LEED AP | 33 | 9 | ✓ | ✓ | ✓ |
| Bob Yokum, PE \| Structural Engineer | MS, BS | PE | | 41 | 10 | ✓ | ✓ | ✓ |
| Stephen Richards, PE \| Geotechnical Engineer | BS | PE | | 50 | 31 | ✓ | ✓ | ✓ |
| Mitch Pillar, RPLS \| Surveyor | | RPLS | | 40 | 37 | ✓ | ✓ | ✓ |
| Nathan Turner \| Scheduling | AS | | | 15 | 5 | ✓ | ✓ | ✓ |
| Joe Wells, RA, RID \| Interior Designer | BArch | RA, RID | | 36 | 15 | ✓ | ✓ | |

## 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

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Of course, we realize that the key discipline leaders must be supplemented by support personnel in all technical categories, some of which were not addressed in the solicitation. Another advantage that we offer you 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. In addition, below are provided brief descriptions of Joint Venture personnel and disciplines that we anticipate may be required of us over the life of this contract. All of these personnel are available for this assignment, as required.

**Dani Alexander, Quality Assurance Representative**
Ms. Alexander has 23 total years of experience (7 with MSMM), including 10 years as a construction project manager/quality assurance representative at the USACE New Orleans District, Construction Branch. She is experienced with RMS reporting and has been involved in Section F Projects #1 and #3.

**Aurelio Paez, CQM, Quality Assurance Representative**
Mr. Paez has 35 total years of experience (11 with HZ) as a quality assurance representative, and for the last 10 years has served primarily on USACE vertical projects in the SWD AOR, including the new $1 billion Ft. Bliss Bliss Replacement Hospital (Section F, Project #2). He is USACE CQM certified. He is experienced with the RMS reporting system.

**Channing Brown III, CQM, Quality Assurance Representative**
Mr. Brown has 37 total years of experience as a quality assurance representative, specializing in job safety programs, OSHA and Government EM385-1-1 compliance. He is very well versed in the RMS reporting system and has recently been involved with Section F Projects #2 and #5, as well as with the new Ft. Bliss Replacement Hospital.

**Gabe Mercado, CQM, Quality Assurance Representative**
Mr. Mercado has 21 total years of experience as a quality assurance representative (5 with HZ) and is USACE CQM certified. Mr. Mercado was involved in the original Ft. Bliss Expansion Program, as well as with Section F Projects #2 and #5. He is extremely familiar with the USACE RMS reporting system.

**Bobby Lucero, CQM, Quality Assurance Representative**
Mr. Lucero has 34 total years of experience (3 with HZ), having most recently been involved as a quality assurance representative for Section F Projects #2 and #5. He is USACE CQM certified and familiar with the RMS reporting system.

**Dan Daigle, CVS, CPE, Cost Estimator/Value Engineer**
Mr. Daigle has 37 years of experience, five with MSMM, as a professional cost estimator and certified value engineer. He is extremely familiar with the use of MCACES and PACES software, having provided MII cost estimating for multiple USACE districts, including Section F Projects #1 and #3.

### Additional Program/Project Management Support - Mike Bormann, PE

Recently retired with over 30 years of USACE SWD experience as the Area Engineer for SWF South Texas Area Office, Mike Bormann is available to assist Manish Mardia and Craig Trimble, as well as the entire MHZ Team, with Program, Project and Construction Management responsibilities. Mike has extensive experience with both military and civil works construction within the SWD AOR. He will be a valuable resource to the team with staff ramp up, training, safety, orientation, utilization of RMS and general guidance to the field personnel on USACE procedures. He has managed major construction efforts within SWD including the Fort Bliss Program, the San Antonio Military Medical Center, the Dallas Floodway Program and most recently, over $2B in Military and Civil Works construction in the South Texas Area Office.

## (c) PAST PERFORMANCE

Our team consistently delivers cost efficient, on schedule, 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 (see description above under Professional Qualifications section), HZ was under significant pressure over a number of years to deliver both field staff and 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 make 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.

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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.

KOLAWOLE ANIFOWOSHE
Design Manager, USACE Fort Worth District
Dallas Floodway Extension Phase II

> 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.

KALLI CLARK-EGAN, PE
COR, USACE Galveston District
Texas City & Vicinity Hurricane Flood Protection Project I-Wall Repair

> 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

**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.**

## H. ADDITIONAL INFORMATION

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### 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.

**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.

## H. ADDITIONAL INFORMATION

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

# (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 within the SWT AOR and nationwide. With a JV 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 task 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 #2); El Paso/Yuma Sector CBP Border Barrier Program (Project #5); San Diego Sector CBP Border Barrier Program (Project #9)**. In addition, as mentioned already, our experience includes the staffing of **over 40 on-site professionals for the Ft. Bliss Expansion Program for a period of over five years.**

The two partner firms specialize in the design and construction of military facilities and have 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 (for which we are now under contract to the state of Texas). 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 over $20M of construction per week** for an extended period of time. 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 Tulsa District might have, and this level of experience will facilitate our ability to respond to your needs on this IDIQ.

## H. ADDITIONAL INFORMATION

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

## (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-service offices in Oklahoma City, OK, as well as throughout the states of Texas and New Mexico. All team members have had longstanding business operations in the SWD AOR. 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.

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.

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 USACE SWD 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 1,000 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 map below showing the number of office locations of both MHZ and our sub-consultant team members located within the AOR as well as total projects completed in the affected states.

## (f) VOLUME OF DOD CONTRACTS (LAST 12 MONTHS)

| 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
August 1, 2022

33. NAME AND TITLE
Manish Mardia, PE, Project Manager, MHZ JV Board Member

# PART II

# ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER *(If any)*
**W912BV-22-R-0024**

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

| | | | |
|---|---|---|---|
| 2a. FIRM (OR BRANCH OFFICE) NAME<br>MSMM Huitt-Zollars A Joint Venture | | 3. YEAR ESTABLISHED<br>**2019** | 4. UEI NUMBER<br>**WQGNH65AUN21** |
| 2b. STREET<br>4640 S Carrollton Ave Ste 220 | | 5. OWNERSHIP | |
| 2c. CITY<br>New Orleans | 2d. STATE<br>LA | 2e. ZIP CODE<br>70119 | a. TYPE<br>**Joint Venture** |
| 6a. POINT OF CONTACT NAME AND TITLE<br>**Manish Mardia, Joint Venture Chairman** | | | b. SMALL BUSINESS STATUS<br>**Small Business** |
| 6b. TELEPHONE NUMBER<br>504-559-1897 | 6c. E-MAIL ADDRESS<br>mmardia@msmmeng.com | | 7. NAME OF FIRM *(If block 2a is a branch office)* |
| 8a. FORMER FIRM NAME(S) *(If any)* | | 8b. YR. ESTABLISHED | 8c. DUNS NUMBER |
| | | | |

| 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 (1) FIRM | c. No. of Employees (2) BRANCH | a. Profile Code | b. Experience | c. Revenue Index Number *(see below)* |
| | NOTE: The Joint Venture does not have employees, it is a legal entity. Locations listed for JV personnel in section E resumes are the individuals respective firm's office location. | | | | | |
| | Total | | | | | |

| 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 | 1 |
| 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.

| | |
|---|---|
| a. SIGNATURE | b. DATE<br>**December 29, 2021** |
| c. NAME AND TITLE<br>**Manish Mardia, Joint Venture Chairman** | |

# ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (*If any*)
W912BV-22-R-0024

## PART II – GENERAL QUALIFICATIONS

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

| | |
|---|---|
| 2a. FIRM (*Or Branch Office*) NAME<br>MSMM Engineering, LLC CAGE Code: 6SKR5 | 3. YEAR ESTABLISHED<br>2011 |
| | 4. UNIQUE ENTITY IDENTIFIER<br>NYLUL4Q5GYF6 |
| 2b. STREET<br>4640 South Carrollton Avenue, Suite 220 | 5. OWNERSHIP |
| 2c. CITY<br>New Orleans | 2d. STATE<br>LA |
| 2e. ZIP CODE<br>70119 | a. TYPE<br>Limited Liability Corporation |
| 6a. POINT OF CONTACT NAME AND TITLE<br>Manish Mardia, P.E., President/Owner | b. SMALL BUSINESS STATUS<br>Small Business |
| 6b. TELEPHONE NUMBER<br>504-559-1897 | 6c. EMAIL ADDRESS<br>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 (1) FIRM | c. No. of Employees (2) BRANCH | a. Profile Code | b. Experience | c. Revenue Index Number (*see below*) |
| 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 (*Insert revenue index number shown at right*) | |
|---|---|
| a. Federal Work | 6 |
| b. Non-Federal Work | 5 |
| **c. Total Work** | 6 |

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 |
|---|---|
| | December 29, 2021 |

c. NAME AND TITLE
Manish Mardia, P.E., President/Owner

# ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER *(If any)*: W912BV-22-R-0024

## 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: **QCMMZ5KBGCL5**

2b. STREET: **500 W. 7th Street, Suite 300**

2c. CITY: **Fort Worth**

2d. STATE: **TX**

2e. ZIP CODE: **76102-4728**

5. OWNERSHIP

a. TYPE: **Corporation**

b. SMALL BUSINESS STATUS: **Large Business**

6a. POINT OF CONTACT NAME AND TITLE: **Larry O. Rogers, PE, Vice President**

6b. TELEPHONE NUMBER: **817-335-3000**

6c. EMAIL ADDRESS: **lrogers@huitt-zollars.com**

7. NAME OF FIRM *(If Block 2a is a Branch Office)*: **Huitt-Zollars, Inc.**

| 8a. FORMER FIRM NAME(S) *(If any)* | 8b. YEAR ESTABLISHED | 8c. UNIQUE ENTITY IDENTIFIER |
|---|---|---|
| | | |

9. EMPLOYEES BY DISCIPLINE

| a. Function Code | b. Discipline | c. Number of Employees (1) FIRM | c. Number of Employees (2) BRANCH |
|---|---|---|---|
| 02 | Administrative | 76 | 6 |
| 06 | Architect | 92 | 12 |
| 08 | CADD Technician | 51 | 7 |
| 12 | Civil Engineer | 187 | 9 |
| 15 | Construction Inspector | 6 | |
| 16 | Construction Manager | 10 | 1 |
| 21 | Electrical Engineer | 16 | 11 |
| 23 | Environmental Engineer | 4 | |
| 25 | Fire Protection Engineer | 2 | 1 |
| 37 | Interior Designer | 4 | |
| 38 | Land Surveyor | 63 | 1 |
| 39 | Landscape Architect | 4 | |
| 42 | Mechanical Engineer | 26 | 15 |
| 47 | Planner: Urban/Regional | 8 | |
| 57 | Structural Engineer | 20 | 4 |
| 60 | Transportation Engineer | 16 | |
| 62 | Water Resource Engineer | 9 | 1 |
| | | | |
| | | | |
| | | | |
| | | | |
| | Other Employees | | |
| | **Total** | 594 | 68 |

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

| a. Profile Code | b. Experience | c. Revenue Index Number *(see below)* |
|---|---|---|
| A09 | Anti-Terrorism/Force Protection | 4 |
| B01 | Barracks; Dormitories | 4 |
| C15 | Construction Management | 2 |
| D04 | Design-Build Preparation RFP's | 3 |
| D07 | Dining Halls; Clubs; Restaurants | 2 |
| E02 | Educational Facilities; Classrooms | 2 |
| E05 | Elevators; Escalators; People-Movers | 1 |
| E07 | Energy Conservation; New Energy Sources | 5 |
| F03 | Fire Protection | 4 |
| G01 | Garages; Vehicle Maintenance Facilities; Parking | 5 |
| H07 | Highways; Streets; Airfield Paving; Parking | 4 |
| H11 | Housing (Residential, Multi-Family; Apartments; Condominiums) | 3 |
| I01 | Industrial Buildings; Manufacturing Plants | 5 |
| I05 | Interior Design; Space Planning | 2 |
| I06 | Irrigation; drainage | |
| J01 | Judicial and Courtroom Facilities | 4 |
| M05 | Military Design Standards | 3 |
| O01 | Office Buildings; Industrial Parks | 5 |
| P08 | Prisons & Correctional Facilities | 2 |
| R06 | Rehabilitation (Buildings; Structures; Fac's) | 5 |
| S11 | Sustainable Design | 6 |
| 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: MKent

b. DATE: 6/8/2022

c. NAME AND TITLE: **Monica Kent, PE, LEED AP, Senior Vice President**

# ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER *(If any)*: W912BV-22-R-0024

## 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: **HVLYQETLZHY9**

2b. STREET: **5430 LBJ Freeway, Suite 1500**

2c. CITY: **Dallas**

2d. STATE: **TX**

2e. ZIP CODE: **75240**

5. OWNERSHIP

a. TYPE: **Corporation**

b. SMALL BUSINESS STATUS: **Large Business**

6a. POINT OF CONTACT NAME AND TITLE: **Robert J. McDermott, PE, President**

6b. TELEPHONE NUMBER: **214-871-3311**

6c. EMAIL ADDRESS: **mcdermott@huitt-zollars.com**

7. NAME OF FIRM *(If Block 2a is a Branch Office)*: **N/A**

| 8a. FORMER FIRM NAME(S) *(If any)* | 8b. YEAR ESTABLISHED | 8c. UNIQUE ENTITY IDENTIFIER |
|---|---|---|
| | | |

### 9. EMPLOYEES BY DISCIPLINE

| a. Function Code | b. Discipline | c. Number of Employees (1) FIRM | c. Number of Employees (2) BRANCH |
|---|---|---|---|
| 02 | Administrative | 76 | 41 |
| 06 | Architect | 92 | 6 |
| 08 | CADD Technician | 51 | 8 |
| 12 | Civil Engineer | 187 | 31 |
| 15 | Construction Inspector | 6 | |
| 16 | Construction Manager | 10 | 1 |
| 21 | Electrical Engineer | 16 | |
| 23 | Environmental Engineer | 4 | 2 |
| 25 | Fire Protection Engineer | 2 | |
| 37 | Interior Designer | 4 | 1 |
| 38 | Land Surveyor | 63 | 15 |
| 39 | Landscape Architect | 4 | 4 |
| 42 | Mechanical Engineer | 26 | 2 |
| 47 | Planner: Urban/Regional | 8 | |
| 57 | Structural Engineer | 20 | 9 |
| 60 | Transportation Engineer | 16 | 9 |
| 62 | Water Resource Engineer | 9 | 4 |
| | | | |
| | | | |
| | Other Employees | | |
| | **Total** | 594 | 133 |

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

| a. Profile Code | b. Experience | c. Revenue Index Number *(see below)* |
|---|---|---|
| A06 | Airports; Terminals and Hangars; Freight Handling | 1 |
| B02 | Bridges | 7 |
| C15 | Construction Management | 6 |
| C16 | Construction Surveying | 6 |
| D04 | Design-Build – Preparation of RFPs | 4 |
| G01 | Garages; Vehicles Maintenance Facilities; Parking Decks | 6 |
| H04 | Heating; Ventilating; Air Conditioning | 6 |
| H07 | Highways; Streets; Airfield Paving; Parking Lots | 8 |
| H11 | Housing (Residential, Multi-Family; Apartments) | 3 |
| I06 | Irrigation; Drainage | 6 |
| L02 | Land Surveying | 7 |
| L03 | Landscape Architecture | 6 |
| P06 | Planning (Site, Installation and Project) | 7 |
| R04 | Recreation Facilities (Parks, Marinas, Etc.) | 4 |
| S04 | Sewage Collection, Treatment and Disposal | 7 |
| S10 | Surveying; Platting; Mapping; Flood Plain Studies | 6 |
| S11 | Sustainable Design | 6 |
| S13 | Storm Water Handling and Facilities | 5 |
| T04 | Topographic Surveying and Mapping | 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 | 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: MK

b. DATE: 6/8/2022

c. NAME AND TITLE: **Monica Kent, PE, LEED AP, Senior Vice President**

# ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER *(If any)*: W912BV-22-R-0024

## 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: **F2AMRS15WN87**

2b. STREET: **5822 Cromo Drive, Suite 210**

2c. CITY: **El Paso**

2d. STATE: **TX**

2e. ZIP CODE: **79912-5502**

5. OWNERSHIP

a. TYPE: **Corporation**

b. SMALL BUSINESS STATUS: **Large Business**

6a. POINT OF CONTACT NAME AND TITLE: **Isabel Vasquez, PE, Vice President**

6b. TELEPHONE NUMBER: **915-587-4339**

6c. EMAIL ADDRESS: **ivasquez@huitt-zollars.com**

7. NAME OF FIRM *(If Block 2a is a Branch Office)*: **Huitt-Zollars, Inc.**

| 8a. FORMER FIRM NAME(S) *(If any)* | 8b. YEAR ESTABLISHED | 8c. UNIQUE ENTITY IDENTIFIER |
|---|---|---|
| | | |

### 9. EMPLOYEES BY DISCIPLINE

| a. Function Code | b. Discipline | c. Number of Employees (1) FIRM | c. Number of Employees (2) BRANCH |
|---|---|---|---|
| 02 | Administrative | 76 | 1 |
| 06 | Architect | 92 | 1 |
| 08 | CADD Technician | 51 | 3 |
| 12 | Civil Engineer | 187 | 9 |
| 15 | Construction Inspector | 6 | |
| 16 | Construction Manager | 10 | 1 |
| 21 | Electrical Engineer | 16 | 11 |
| 23 | Environmental Engineer | 4 | |
| 25 | Fire Protection Engineer | 2 | 1 |
| 37 | Interior Designer | 4 | |
| 38 | Land Surveyor | 63 | 1 |
| 39 | Landscape Architect | 4 | |
| 42 | Mechanical Engineer | 26 | 15 |
| 47 | Planner: Urban/Regional | 8 | |
| 57 | Structural Engineer | 20 | 4 |
| 60 | Transportation Engineer | 16 | |
| 62 | Water Resource Engineer | 9 | 1 |
| | | | |
| | Other Employees | | |
| | **Total** | 594 | 20 |

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

| a. Profile Code | b. Experience | c. Revenue Index Number *(see below)* |
|---|---|---|
| C15 | Construction Management | 4 |
| C16 | Construction Surveying | 1 |
| E09 | Environmental Impact Studies, Assessments or Statements | 1 |
| E12 | Environmental Remediation | 2 |
| H07 | Highways; Streets; Airfield Paving; Parking Lots | 5 |
| L02 | Land Surveying | 2 |
| P06 | Planning (Site, Installation and Project) | 1 |
| S04 | Sewage Collection, Treatment and Disposal | 2 |
| S10 | Surveying; Platting; Mapping; Flood Plain Studies | 3 |
| S11 | Sustainable Design | 1 |
| T03 | Traffic and Transportation Engineering | 2 |
| T04 | Topographic Surveying and Mapping | 3 |
| W03 | Water Supply; Treatment and Distribution | 4 |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

### 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 | 6 |
| **c. Total Work** | 6 |

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: MKent

b. DATE: 6/8/2022

c. NAME AND TITLE: **Monica Kent, PE, LEED AP, Senior Vice President**

# ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER *(If any)*
W912BV-22-R-0024

## 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. |
| 2b. STREET | 1717 East Erwin |
| 2c. CITY | Tyler |
| 2d. STATE | Texas |
| 2e. ZIP CODE | 75702 |
| 3. YEAR ESTABLISHED | 1965 |
| 4. UNIQUE ENTITY IDENTIFIER | J7Z3ZT1N16K2 |
| 5. OWNERSHIP a. TYPE | Corporation |
| b. SMALL BUSINESS STATUS | SBE / WBE / HUB (State) |
| 6a. POINT OF CONTACT NAME AND TITLE | James Aldredge – Marketing Director |
| 6b. TELEPHONE NUMBER | (903) 595-4421 |
| 6c. EMAIL ADDRESS | jaldredge@ettlinc.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 |
|---|---|---|
| NA | 1965 | J7Z3ZT1N16K2 |

### 9. EMPLOYEES BY DISCIPLINE

| a. Function Code | b. Discipline | c. Number of Employees (1) FIRM | c. Number of Employees (2) BRANCH |
|---|---|---|---|
| 02 | Administrative | 17 | |
| 08 | CADD Technician | 1 | |
| 30 | Geologist | 2 | |
| 48 | Project Managers | 8 | |
| 55 | Soil Engineers | 8 | |
| | Environmental Project Managers | 3 | |
| | Soil Laboratory Technicians | 35 | |
| | Drillers | 8 | |
| | Draftsmen | 2 | |
| | Engineering Technicians | 24 | |
| | | | |
| | | | |
| | | | |
| | Other Employees | | |
| | **Total** | 106 | |

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

| a. Profile Code | b. Experience | c. Revenue Index Number *(see below)* |
|---|---|---|
| | Construction Materials Testing | 5 |
| | Geotech Engineering & Conslt. | 5 |
| | Environmental Consulting | 4 |
| | Drilling – Geotechnical & Env. | 5 |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

### 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** | 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

C. Brandon Quinn

b. DATE
July 18, 2022

c. NAME AND TITLE
C. Brandon Quinn, PE, PG, CAPM – Vice President

# ARCHITECT – ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER *(If any)*
W912BV-22-R-0024

## 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
FJ3MERN7QFA6

2b. STREET
Airside Business Park, 100 Airside Drive

2c. CITY
Moon Township

2d. STATE
PA

2e. ZIP CODE
15108

5. OWNERSHIP

a. TYPE
Limited Liability Company

b. SMALL BUSINESS STATUS
No

6a. POINT OF CONTACT NAME AND TITLE
Beth Larkin, P.E., Office Executive

6b. TELEPHONE NUMBER
412-269-2062

6c. E-MAIL ADDRESS
Beth.Larkin@mbakerintl.com

7. NAME OF FIRM *(If Block 2a is a Branch Office)*
Michael Baker International, LLC

8a. FORMER FIRM NAME(S) *(If any)*
Michael Baker Jr., Inc.

8b. YEAR ESTABLISHED
1987

8c. UNIQUE ENTITY IDENTIFIER
956772347 (DUNS)

9. EMPLOYEES BY DISCIPLINE

| a. Function Code | b. Discipline | c. Number of Employees (1) FIRM | (2) BRANCH |
|---|---|---|---|
| 02 | Administrative | 660 | 170 |
| 05 | Archaeologist | 37 | 18 |
| 06 | Architect | 55 | 16 |
| 12 | Civil Engineer | 491 | 44 |
| 15 | Construction Inspector | 225 | 47 |
| 16 | Construction Manager | 117 | 21 |
| 27 | Foundation/Geotechnical Engineer | 16 | 10 |
| 29 | GIS Specialist | 134 | 33 |
| 30 | Geologist | 12 | 10 |
| 37 | Interior Designer | 14 | 10 |
| 42 | Mechanical Engineer | 31 | 8 |
| 48 | Project Manager | 80 | 14 |
| 57 | Structural Engineer | 144 | 22 |
| 58 | Technician/Analyst | 81 | 19 |
| 60 | Transportation Engineer | 148 | 16 |
| | Architectural Historian | 10 | 7 |
| | Designer/CADD Technician | 222 | 45 |
| | Engineering Technician | 525 | 70 |
| | Environmental Scientist/Specialist | 101 | 13 |
| | Planner | 220 | 26 |
| | Other Employees | 334 | 32 |
| | **Total** | 3657 | 651 |

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

| a. Profile Code | b. Experience | c. Revenue Index Number *(see below)* |
|---|---|---|
| A02 | Aerial Photography; Airborne Data and Imagery | 3 |
| A05 | Airports; Navaids; Airport Lighting; Fueling | 6 |
| B02 | Bridges | 8 |
| C15 | Construction Management | 7 |
| D01 | Dams (Concrete; Arch) | 1 |
| D02 | Dams (Earth; Rock); Dikes; Levees | 4 |
| E01 | Ecological & Archeological Investigations | 6 |
| G04 | GIS: Development, Analysis, & Data Collection | 4 |
| H07 | Highways; Streets; Airfield Paving; Parking Lots | 6 |
| M01 | Mapping Location/Addressing Systems | 3 |
| M05 | Military Design Standards | 8 |
| M06 | Mining and Mineralogy | 4 |
| P04 | Pipelines (Cross-country--Liquid & Gas) | 4 |
| P06 | Planning (Site, Installation and Project) | 6 |
| S05 | Soils & Geologic Studies; Foundations | 4 |
| T01 | Telephone Systems (Rural; Mobile; Intercom) | 4 |
| T03 | Traffic & Transportation Engineering | 4 |
| T04 | Topographic Surveying and Mapping | 6 |
| | Bridge Inspection | 3 |
| | Buildings | 8 |

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

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

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
7/1/2022

c. NAME AND TITLE
Beth Larkin, P.E., Office Executive

## ARCHITECT – ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER *(If any)* W912BV-22-R-0024

**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 ID |
|---|---|---|
| **Hunter Pacific Group** | **1999** | **R1QWSESHDSP3** |

| 2b. STREET | 5. OWNERSHIP a. TYPE |
|---|---|
| 160 W Island Avenue | Corporation |

| 2c. CITY | 2d. STATE | 2e. ZIP CODE | b. SMALL BUSINESS STATUS |
|---|---|---|---|
| San Diego | CA | 92101 | 541330-SB, WOSB Certified (SBA) |

| 6a. POINT OF CONTACT NAME AND TITLE | 7. NAME OF FIRM *(If block 2a is a branch office)* |
|---|---|
| Celia Hunter, President | N/A |

| 6b. TELEPHONE NUMBER | 6c. E-MAIL ADDRESS |
|---|---|
| (619) 232-2321 | celia@hunterpacificgroup.com |

| 8a. FORMER FIRM NAME(S) *(If any)* | 8b. YEAR ESTABLISHED | 8c. UNIQUE ENTITY ID |
|---|---|---|
| | | |

9. EMPLOYEES BY DISCIPLINE

| a. Function Code | b. Discipline | c. Number of Employees (1) FIRM | (2) BRANCH |
|---|---|---|---|
| 06 | Architect | 1 | |
| 16 | Construction Manager | 2 | |
| 18 | Cost Engineer/ Estimator | 8 | |
| 20 | Economist | 1 | |
| 21 | Electrical Engineer | 2 | |
| 42 | Mechanical Engineer | 4 | |
| 48 | Project Manager | 4 | |
| 51 | Safety/ Health Engineer | 1 | |
| 53 | Scheduler | 1 | |
| | Additional Personnel | 6 | |
| | **Total** | 30 | |

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

| a. Profile Code | b. Experience | c. Revenue Index Number |
|---|---|---|
| A06 | Airports; Terminals, Hangars | 4 |
| A12 | Automation; Controls | 4 |
| C15 | Construction Management | 7 |
| C18 | Cost Estimating/ Engineering | 7 |
| D04 | Design-Build | 4 |
| E03 | Electrical Studies and Design | 4 |
| E07 | Energy Conservation/ Studies | 4 |
| E08 | Engineering Economics | 4 |
| F03 | Fire Protection | 4 |
| H04 | Heating, Ventilation | 7 |
| H07 | Highways; Streets; Airfields | 4 |
| H09 | Hospital & Medical Facilities | 4 |
| L01 | Laboratories; Research Facilities | 4 |
| M05 | Military Design Standards | 4 |
| O01 | Office Bldgs; Industrial Parks | 4 |
| P06 | Planning | 4 |
| P07 | Plumbing and Piping Design | 4 |
| P12 | Power Generation, Distribution | 4 |
| R06 | Rehabilitation | 4 |
| R10 | Risk Analysis | 4 |
| S11 | Sustainable Design | 4 |
| T02 | Testing and Inspection Services | 4 |
| V01 | Value Analysis; Life Cycle Cost | 4 |
| W04 | Wind Tunnels; Facilities Design | 4 |

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

| | |
|---|---|
| a. Federal Work | 8 |
| b. Non-Federal Work | 5 |
| **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 January 1, 2022

c. NAME AND TITLE

Celia Hunter, CEP, LEED AP – President

MHZ JV

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