

Date:

December 20, 2018

To:

Gary Hartfield, Division Director

Internal Services Department, Small Business Development

From:

Milton L. Collins, Associate Director

Miami-Dade Aviation Department, Minority Affairs Division

Subject:

Contract Measures Request:

MIA West Cargo Fuel Tender Facility Relocation Project

Project Number: MDAD-P256E

### **RECOMMENDATION:**

This is a request for Small Business Development (SBD) to approve the subject project in order for the Department to proceed with the approval to receive a Project Worksheet for the MIA West Cargo Fuel Tender Facility Relocation Project, MDAD Project No. MDAD-P256E.

The Minority Affairs Division and the Contractor's staff have evaluated the subject project and recommend an <u>SBE/Contruction Program Goal of 14%</u>, and an <u>SBE/Goods & Services Program Goal of .06%</u> as listed on the attached breakdown and description of services attached. The Community Workforce Program (CWP) breakdown is attached for the required goal.

The Estimate of Probable Construction Cost for this project is \$16,700,000.00. The Term of project construction under contract is expected to be 39 calendar weeks (273 calendar days) after receipt of Notice to Proceed from MDAD.

### **SCOPE OF WORK:**

Work of this Contract comprises construction of a 9-bay fuel tender loading rack and related facilities to replace the existing fuel tender facility which will be demolished as part of the MIA Taxiways RS&T Pavement Rehabilitation Project No. P256A. The scope of construction work includes the following construction activities:

- 1. Demolish existing pavements, monitoring wells and structures in the project construction site.
- 2. Remove the top 42-inches of soil within the project limits, temporarily stockpile, test and properly dispose of this material.
- 3. Provide clearing, grubbing and grading for the project site.
- 4. Construct a new 9-bay canopied fuel tender facility with 8 bays to load jet fuel into aircraft refueler trucks up to 17,500 gallons in capacity, and 1 bay to offload, bulk load and dispense diesel.
- 5. Construct a new 3-hour fire rated operator's building.
- 6. Construct a new 2-hour fire rated jet fuel filtration building and provide new filter/separator vessels, pressure surge protection, pressure and flow control valves, piping and accessories.
- 7. Provide twin double wall jet fuel piping the existing 12"/16" underground double wall jet fuel pipes to the new filtration building and to the new fuel tender loading bays.

Contract Measures Request:

MIA West Cargo Fuel Tender Facility Relocation Project

Project Number: MDAD-P256E

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# **SCOPE OF WORK (continued):**

- a. Provide leak detection, high point vents, low point drains, and valve pits.
- b. Provide lateral underground double wall jet fuel piping to the loading bays, and piping and equipment at the bays.
- 8. Remove existing low point drain pits and replace with two new low point drain pits.
- 9. Provide cathodic protection for all new underground jet fuel piping.
- 10. Relocate an existing 10,000-gallon aboveground red diesel storage tank, related equipment, and the bulk truck loading and dispensing assemblies.
- 11. Construct a new tank foundation and provide new underground double wall and aboveground single wall piping and leak detection from the diesel bay to the tank.
- 12. Provide a drainage system, paving and markings.
- 13. Provide a new emergency generator and related accessories and generator's concrete pad.
- 14. Provide new electrical, communications, grounding, bonding, lighting and lightning protection systems for the new fuel tender facility, filtration building, operator's building and the relocated red diesel storage tank and dispensing facilities.
- 15. Provide new utilities for the new facilities.
- 16. Provide NFPA compliant fire suppression and fire alarm system.
- 17. Provide closed circuit television (CCTV) security system to monitor the new fuel tender facility.
- 18. Provide dewatering a necessary to install underground piping and utilities. Obtain all required dewatering permits prior to dewatering. Dispose of the water at a licensed waste disposal facility offsite.
- 19. Remove all unsuitable, organic and/or contaminated soil and dispose of as indicated.
- 20. Test and commission the new facilities.
- 21. Provide as-built topographical survey of the new fuel tender facility, including all underground utilities, aboveground equipment, tanks, buildings, structures, fixtures, and all other new installations comprising this project.

## **SPECIALIZED WORK AND CONSTRAINTS:**

The Contractor shall be a Florida Licensed Mechanical Contractor and a Florida Licensed Pollutant Storage System Specialty Contractor with a minimum of five years' experience in the construction of underground aviation hydrant fuel systems. In addition, the Contractor shall have experience in construction of aviation fuel loading/offloading facilities. All fuel related construction must be performed by such an experienced Contractor and subcontractors.

Contract Measures Request:

MIA West Cargo Fuel Tender Facility Relocation Project

Project Number: MDAD-P256E

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### SPECIALIZED WORK AND CONSTRAINTS (continued):

In addition to construction underground double wall fuel piping and connecting to existing underground jet fuel distribution pipelines inside the airport (MIA), other highly specialized components of this project will be:

- a) A large prefabricated fuel tender canopy structure that will require to be erected by a subcontractor specialized in construction of large canopy installations.
- b) A control system and fuel accounting system specifically designed to monitor and control for the fuel tender operations and account for fuel tender transactions.
- c) Fire alarm and fire suppression system to protect the fuel tender and buildings.
- d) Closed circuit television system for site security.
- e) Emergency fuel shut-off system to shut down fuel flow in the event of a fuel related emergency.
- f) NFPA and Miami-Dade Fire Rescue approved emergency generator system to operate the fuel tender during power outages.
- g) Electrical systems requiring explosion-proof components.
- h) Underground power and communications duct banks in highly congested areas of underground utilities.
- i) Communications system with interfacing with the airport's communications to Airside Operations and the Fire Department.
- j) Maintenance of traffic during construction in coordination with Airside Operations and RS&T project management to prevent impacting airside operations and RS&T project construction.
- k) Concrete paving meeting FAA specifications.

The West Cargo Fuel Tender construction will take place on a site that is environmentally impacted and under remediation order from RER-DERM. All soils excavated from the site will have to be staged, sampled and tested for contamination, and contaminated soils properly disposed of. The environmental excavation, and soil staging, sampling and testing needs to be done by a contractor or subcontractor experienced in site environmental remediation, as the work will require a more complex planning, coordination and execution that with a normal project earthwork, as well as coordinating with, and preparing reports to, RER-DERM.

The West Cargo Fuel Tender construction must strictly adhere to the schedule and must be coordinated with the RS&T taxiways project construction. The fuel tender construction must be completed and the facility commissioned into service by the time the existing fuel tender facility is demolished by the RS&T project for taxiway construction. Liquidated damages of \$7,284 per day will be assessed for delays in fuel tender construction and commissioning, as such delays would in turn impact the taxiways project construction.

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The magnitude of liquidated damages emphasizes the need for bidders to be qualified and experienced in projects of similar scope and complexity as the fuel tender project.

Please advise if further information is needed to complete this process.

### Attachments

c: L. Johnson, SBD J. Powell, MDAD

C. Corrales. MDAD

Project File

# MDAD'S CONTRACT MEASURES AND ANALYSIS WORKSHEET

To:

Gary Hartfield, Division Director

Internal Services Department, Small Business Development

From:

Milton L. Collins, Associate Director

Miami-Dade Aviation Department

Minority Affairs Division

PROJECT/CONTRACT TITLE:

MIA West Cargo Fuel Tender Facility

**Relocation Project** 

PROJECT/CONTRACT NUMBER:

Project No. MDAD-P256E

DEPARTMENT:

**Miami Dade Aviation Department** 

**ESTIMATED OF PROBABLE** 

**CONSTRUCTION COST:** 

\$16,700,000.00

**FUNDING SOURCE:** 

**MDAD Funds** 

### **DESCRIPTION OF PROJECT/BID:**

Work of this Contract comprises construction of a 9-bay fuel tender loading rack and related facilities to replace the existing fuel tender facility which will be demolished as part of the MIA Taxiways RS&T Pavement Rehabilitation Project No. P256A. The scope of construction work includes construction activities which are on the Recommendation of Contract Measures Recommendation Memorandum request attached.

#### CONTRACT MEASURES RECOMMENDATION:

Measures:

**SBE-Con - 14%** 

SBE-G/S - 0.6%

**SBE-CWP - 10%** 

#### REASONS FOR RECOMMENDATION:

Analysis of the factors contained in Implementing Order #3-22 indicates that an SBE-Construction Program Goal and Implementing Order #3-41 indicates that an SBE-Goods & Services Program Goals are appropriate for this contract. Also, Implementing Order #3-376 indicates that a CWP Program Goal is also applicable to this project.

SCHEDULE OF BID ITEMS AND ESTIMATE OF PROBABLE CONSTRUCTION COST - ALL WORK PAGE 1 of 3

| 55 88  | 57                                | 8  | 1                           | Ļ  | 52   | Ц                          |  | _                     | 4  |                             | L  | -                 | L                       | H  |  | L                           | L                                     | L   | -  | L   |  | 35              | 34                        | 33                   | 32                    | 31              | 30   | 29   | Š                | Se .   | 27   | 26        | 3  | 25   | 24   | 23          | 3   | 21                                  | 20  | 19   | 18                                    | 17                                      | 16         | +              | +               | à             | ┞                            | ╀                            | 9                                    | 8  | -                     | +   | מ ע  | ۵ C                   | 2                  | -1           | ō į           | INI I           |   |          |
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| P-713-5.2<br>D-701-5.1   | P-704-5.1.2                       | P-704-5.1.1  | P-702-5.3.18                | P-/02-5.3.1/                                       | P-702-5.3.16                                 | P-702-5.3.15               | P-702-5.3.14                                   | P-702-5.3.13          | P-702-5.3.12   | P-702-5.3.11                | P-702-5.3.10                                       | P-702-5.3.9       | P-702-5.3.8             | P-702-5.3.7                                    | P-702-5.3.6  | P-702-5.3.5                 | P-702-5.3,4                           | P-702-5.3.3                                   | P-702-5,3.2                                  | P-702-5.3.1   | P-620-5.1                                |                 | P-609-5.1                 | P-603-5.1            | ı                     | 1               | P-501-8.1  | P-211-5.1  | 100 1110         | 220210   | P-160-4.9  | P-160-4.6 | 2 400 40   | P-160-4.7  | P-160-4.6  | P-160-4.5   | -   | 1                                   | P-160-4.2   | -  | П                                     |   |            |                | - 1             | D-150-4-7     | P-151-4.8                    | P-151-4.6                    | P-151-4.5                            | P-151-4.4  | P-151-4.3             | P-151-4.2   | P-151-4-1  | 1502-0.01.2           | 1562-5.01.1        | 1505-01      | 1100          |                 |   |          |
| MONITORING WELL - CLOSURE IN-FLACE OF EXISTING 12-INCH DIP CLASS 53 PIPE STORM DRAIN | 4-INCH DUCTILE IRON PIPE CLEANOUT | 4-INCH DUCTILE IRON PIPE AND FITTINGS SANITARY SEWER LATERAL | 12-INCH GATE VALVE WITH BOX | 10 12-INCH DUCLILE IRON PIPE CLASS 33 AND FITTINGS | G-INCH FIRE HYDRAN I - AIRFIELD SERVICE ROAD | 6-INCH GATE VALVE WITH BOX | 6-INCH DUCTILE IRON PIPE CLASS 53 AND FITTINGS | 1 1/4-INCH GATE VALVE | 1 1/4-INCH REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY | 1 1/4-INCH CORPORATION STOP | 1 1/4-INCH TYPE "K" COPPER WATER PIPE AND FITTINGS | 2-INCH GATE VALVE | 2-INCH CORPORATION STOP | 2-INCH TYPE "K" COPPER WATER PIPE AND FITTINGS | 6 2-INCH REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY | 10-INCH GATE VALVE WITH BOX | 10-INCH POST INDICATOR VALVE ASSEMBLY | 10-INCH DOUBLE DETECTOR CHECK VALVE, ASSEMBLY | 10X10 INCH TAPPING SLEEVE AND VALVE ASSEMBLY | 10-INCH DUCTILE IRON WATER PIPE CLASS 53 (AIRSIDE) AND FITTINGS | PAVEMENT PAINTING FINAL (NON-REFLECTIVE) | AGGREGATE - SST | BITUMINOUS MATERIAL - SST | BITUMINOUS TACK COAT | BITUMINOUS PRIME COAT | KEIE PAVEMENI - | PORTLAND CEMENT CONCRETE PAVEMENT - NON-KEINY CHOIL (12-INCH 110K) | LIMEROCK BASE COURSE (12-18) THICK SOM DEMERODED 423 MICH TURK | THROUGH 1000 GPM | DEWATERING/TREATMENT OF CONTAMINATED GROUNDWATER HOURLY UNIT FLOW RATE 500 GPM | DEWATERINGTREATMENT OF CONTAMINATED GROOMEWATER TOOTHER OWN FOR THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OWNER OWNER OF THE OWNER | GPM       | DEWATERING/TREATMENT OF CONTAMINATED GROUNDWATER HOURLY UNIT FLOW RATE LESS THAN 300 | REMOVAL /DISPOSAL OF FREE FLOATING HYDROCARBON PRODUCT | REMOVAL /DISPOSAL OF FREE FLOATING HYDROCARBON PRODUCT | FACILITY    | TRANSPORTATION/DISPOSAL OF HAZARDOUS SOIL AT AN APPROVED HAZARDOUS WASTE DISPOSAL | TRANSPORTATION/INCINERATION OF SOIL | TEMPORARY STOCKPILING OF SUSPECTED AND ENR SOIL WITH BERWING/LINING | TEMPORARY STOCKPILING OF SUSPECTED AND ENR SOIL WITHOUT BEKMING/LINING | STABILIZED SUBGRADE (12-INCHES THICK) | CONTROLLED LOW STRENGTH MATERIAL (CLSM) | EMBANKMENT | ON-SITE BORROW | OFF-SITE BORROW | PRODE BOLLING | REMOVE ABANDONED VALVE KISEK | REMOVE ABANDONED METER VAULE | REMOVE ABANDONED OIL WATER SEPARATOR | DEMOLITION OF UNDERGROUND UTILITY PIPING (6-INCHES TO 36-INCHES) | CLEARING AND GRUBBING | DEMOLITION OF CONCRETE PAVEMENT (UP TO 15-INCHES THICK) | DEMOLITION OF BITUMINOUS PAVEMENT (UP TO 6-INCHES) | 1.4 (MAINTER PROPRIE) | STAKEU SILI FERUCE | MOBILIZATION |               | DESCRIPTION     | SCHEDULE OF BID ITEMS AND ESTIMATE OF PROBABLE CONSTRUCTION  12/14/18 |          |
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| 368  | J                                 | 24   | 2                           |  | 250  |                            | 10   | 100                   |  |                             | ځ د  | 45                | 4                       | 4  | 250  |                             | 3                                     | 1   | . د  | ١ [   | 2 6                                      | 150             | 36                        | 1,000                | 1 036                 | 1 381           | 1.242  | 2752   | 3.994            | 500  | 1,000  |           | 2,000  | 500  | 3,000  | 3 000       | 932   | 9,319                               | 932   | 4659   | 3,994                                 | 2 200                                   | 689        | 334            | 669             | 3,994         | 4,659                        | . د                          |                                      | 1 00   | 3 8                   | 1,551   | 6,905  | _1                    | 50                 | _            | 1             | QUANTITY        | NSTRUCTION  | TODI COD |
| \$ 180.00  |                                   | 69   | 8                           | 49   | 69   | \$ 9,455,00                | AG   | 9 6                   |  |                             | A 6  | 29 6              |                         | A 6  | ·n •   |                             |                                       |   | 1  |   | 9 6                                      | я               | я                         | я                    | 9                     | 64              | \$ 140.00  | 9  | 69               | \$ 35.00   | \$ 30,00   |           | \$ 25.00   | \$ 41.00   |  | 4 00        |   | \$ 35.00                            |   | \$ 20.00   | _                                     | 00.00                                   | _          | -              | \$ 18.00        | +             |                              |                              |                                      | 25,000,00  |                       | _   | _  | \$ 389,493.57         |                    | 3,00         | 280 /03 57    | UNIT PRICE (\$) | N COST - ALL WORK   | מארמם    |
| 69   | A G                               | + 49   |                             | ક  | 49   | 69 6                       | 79 6   | 9                     | 9 6  | A                           | S  | SA G              | 9                       | e e  | 69 <b>€</b>  | 69                          | 69                                    | ₩ (   | 9  | A   | \$                                       | \$ 450.00       | \$                        | 9 6                  |                       |                 | \$ 173,880.00  |  | \$ 83,874,00     | \$ 17,500.00   | \$ 30,000,00   |           | \$ 50,000.00   | \$ 20,500.00   | 2  | -           |   |                                     | \$ 37,280,00  |  |                                       |   |            |                | \$ 12,042.00    |               |                              |                              |                                      | \$ 25,000,00   |                       | 38,775,00   |  |                       |                    | \$ 5,850,00  | 380 403 67    | AMOUNT (\$)     |   |          |
|  |                                   | 7020   | 35% \$                      | %SE  | 25%  | 35%                        | 35%  | 250,00                | %2.CC  | 35%                         | 35%  | 25%               | 35%                     | 35%  | 25%  | 35%                         | 35%                                   | 35%   | 35%  | 35%   |  | 25%             | 25%                       | 25%                  | 10%                   | 25%             |  | 15%  |                  | \$ %08   | 60%  |           | 60% \$   | \$ %CB   |  | \$ %09      | 35% \$  | 35%                                 | 35%   | 35%  | 35% &                                 | 7675                                    | 40%        | 35%            | 35%             | 35%           | 35%                          | 60%                          | 60%                                  | 60%  | 20%                   | 7525  | 25%  |                       | 20%                |              | WUE.          | LABOR           |   |          |
| 9,936  |                                   |  | 4,660.60                    |  |  |                            |  | 1 550 00              | 426 30   | 522.55                      | 680.05   | 2,430.00          | 710.50                  | 755.65   | 19,520.63  | 565.95                      | 6,461.00                              |   |  |   |  |                 |                           |                      | 414.40                | 2,762.00        | 26,082.00  | 37,152.00  | 8,387.40         | 10,500.00  | 10,000.00  | 10,000,00 | 30,000.00  | 17,423,00  | -  | 7.200.00    | 110,908.00  |                                     |   |  | 2,446.50                              |   |            |                | 4,214./0        | 2,795.80      | 13,045.20                    | 600,00                       | 1,200.00                             | 15,000.00  | 20.790.00             | 9,030,70  |  | 116,848.07            |                    | 1,170.00     |               | LABOR COST      |   |          |
| <del>G</del>   | en e                              | A 4  | 8,655.40                    | 89   | ÷  | G                          | 4  | 59 6                  | 59 6   | 69                          | €9   | en                | 8                       | 69   | 69   | €Ð.                         | €9                                    | \$  | €9   | 4   | es l                                     | 68              | 8                         | 673                  | eя                    | G               | 69   | €4   | \$ 75,486,60     | \$ 7,000.00  | * 12,000.00  |           | \$ 20,000.00   | \$ 0,070,000   |  | \$ 4,800.00 | \$ 205,972.00   | \$ 212,007.25                       | \$  | 69   | \$ 4,543.50                           | 54                                      | 9 6        | A              | A C             | ₩             | ÷                            | <b>€</b> 9                   | 49                                   | \$   | £9 6                  | A 6   |  | \$ 272,645.50         |                    | \$ 4,680.00  | \$ 272,645.50 | MATERIAL COST   |   |          |

SCHEDULE OF BID ITEMS AND ESTIMATE OF PROBABLE CONSTRUCTION COST - ALL WORK PAGE 2 of 3  $\,$ 

| 16000-2  |   | 13100-1   | P-730.2                             | P-730.1                               | 1   | 77.50                                | 1   | 0.715.5  | 103 P-715-4 JE   | 102 P-715-3 JE | P-715-2                                    | P-715-1                                | P-713-1                                      | L  | 97 P-712-1 V |   | 96 P-711-16 AI  | 95 P-711-15 AI  | 94 P-/11-14 UI  | P-711-13  | 92 P-711-12 E |   | 91 P-711-11 FI  | P-711-10   | 89 P-711-9 UI  | P-711-8  | P-711-7  |  | 1 1 1      | P-711-4  | 0 7/1 2   | P-711-2  | P-711-1  |   | P-610-2  | 77 P-610-1 VE                       | 1-00400-1   | 1   | L-110-5.1.1   | 73 S-2-1 BC | \$-1-5                         | 1-904-4.1  | FDOT 522-1                          | FDOT 334-1                             | F-162-5.2               | F-162-5.1                                     | D-751-5.2                 |                         | D-701-5.4                            | D-701-5.3                      | 60 D-701-5.2 8-II                    | NO. ITEM    | $\dashv$        |  |
|--|---|---|-------------------------------------|---------------------------------------|---|--------------------------------------|---|--|--|----------------|--|--|--|--|--------------|---|---|---|---|---|---------------|---|---|--|--|--|--|--|------------|--|---|--|--|---|--|-------------------------------------|---|---|---|-------------|--------------------------------|------------|-------------------------------------|--|-------------------------|---|---------------------------|-------------------------|--------------------------------------|--------------------------------|--------------------------------------|-------------|-----------------|--|
| RELOCATION AND RECONNECTION OF ELECTRICAL EQUIPMENT FOR EXISTING DIESEL TANK | ISCONNECTION AND REMOVAL OF ELECTRICAL EQUIPMENT FOR EXISTING DIESEL TANK | NSTALLATION OF LIGHTNING PROTECTION AND GROUNDING SYSTEMS | ILTER/SEPARATOR PLATFORM AND STAIRS | ILTERISEPARATOR AND ACCESSORIES UNITS | ASTALLATION OF CATHODIC PROTECTION SYSTEM | ET GIJET BIBING SYSTEM COMMISSIONING | OSAN LEGI ST SELLE PROMITE OWNER FURNISHED JET A FUEL | DAK TEST OF JET FIJEL PIPING WITH OWNER FURNISHED JET A FUEL | JET FUEL PIPE HYDROSTATIC PRESSURE TESTING OF PIPING WITH OWNER FURNISHED JET A FUEL | E A FUEL       | ET FUEL PIPING PREUMATIC PREUSURE LEGITING | ET FUEL PIPING CLEANING AND INSPECTING | INSTALLATION OF GROUNDWATER MONITORING WELLS | ELOCATION, TESTING AND COMMISSIONING OF EXISTING 10,000 GAL DIESEL STRUKAGE TANK | VALVES       | CONTROL VALVE MANUFACTURER'S FIELD ENGINEER TO SET/TEST/ADJUST/COMMISSION CONTROL | ABOVEGROUND SINGLE WALL DIESEL FUEL PIPE, FITTINGS, VALVES AND EQUIPMENT FOR DIESEL | ABOVEGROUND SINGLE WALL DIESEL FUEL PIPE AND FITTINGS FOR RELOCATED DIESEL STORAGE TANK | NDERGROUND 273 DOUBLE WALL FIBERGELASS DIESELF IF LAND 11 11 1100 | UNDERGROUND 3"/4" DOUBLE WALL FIBERGLASS DIESEL PIPE AND FITTINGS | EQUIPMENT     | FUEL TENDER LOADING ISLANDS ABOVEGROUND SINGLE WALL FUEL PIPE, FITTINGS, VALVES AND | FILTER BUILDING ABOVEGROUND SINGLE WALL JET FUEL PIPE, FITTINGS, VALVES AND EQUIPMENT | NDERGROUND HIGH POINT VENTS ON NEW JET FUEL PIPE | NDERGROUND LOW POINT DRAIN PITS ON NEW JET FUEL PIPE | NDERGROUND 6"/10" DOUBLE WALL JET FUEL PIPE AND FITTINGS | NDERGROUND 8"/12" DOUBLE WALL JET FUEL PIPE AND FITTINGS | UNDERGROUND 12718 ISOLATION VALVE FITS  INDERGROUND 12718 ISOLATION VALVE FITS | JEL PIPE   | UNDERGROUND 12'/16" DOUBLE WALL JET FUEL PIPE CONNECTION TO EXISTING 12'/16" DOUBLE WALL JET | NDERGROUND 19748 DOUBLE WALL JET FUEL PIPE AND FITTINGS | EMOVE EXISTING UNDERGROUND LOW POINT DRAIN PITS AND REPLACE WITH NEW LOW POINT DRAIN | GSTING JET FUEL PIPELINES DRAIN DOWN AND RETURN TO SERVICE | IFI TENDER CONTROL AND FUEL ACCOUNTING SYSTEM | LTER BUILDING STRUCTURE, ARCHITECTURAL FINISHES, LIGHTING, MECHANICAL AND PLUMBING | VENTS, AND MISCELLANEOUS STRUCTURES | ONCRETE PADS FOR ISOLATION VALVE PITS, MONITORING WELLS, LOW POINT DRAINS, HIGH POINT | 2-W-4 INCH PVC DUCT, CONGRETE ENCASED CONDUIT, EXCAVATION AND CONDUCTOR | W-6 INCH PVC DUCT, CONCRETE ENCASED CONDUIT, EXCAVATION AND CONDUCTOR | BOLLARDS    | WAREL STOPS (PRECAST CONCRETE) | SOUDING    | NORETE SIDEWALK (S-INCH REINFORCEU) | PHALT CONCRETE PAVEMENT - TYPE SP-12.5 | REMOVE CHAIN LINK FENCE | CHAIN LINK FENCE (8 FEET + 1 FOOT OUTRIGGERS) | INCH X 8-INCH FLOOR DRAIN | ORM DRAIN MANHOLE NO. 3 | B-INCH - 45 DEGREE DIE CLASS 53 BEND | INCH X 8-INCH DIP CLASS 53 WYE | 8-INCH DIP CLASS 53 PIPE STORM DRAIN | DESCRITTION |                 | MIA WEST CARGO FUEL I ENDEK KELDOATION - PROJECT IS SCHEDULE OF BID ITEMS AND ESTIMATE OF PROBABLE CONSTRUCTION 12/14/18 |
| LS   | 5 5   | LS  | LS                                  | Ē                                     | LS  | S.                                   | SJ  | rs.  | 57   | ; [8           | 5 2  | 20 5                                   | , S  | 2 5  | 5 8          | ,   | LS  | 2   | T   | 7   | 5             | n<br>A  | હ   | Ş  | ֚֚֚֚֚֚֓֞֝֓֓֞֝֟֝֟֝֟֝֟֟֟֟ <u>֚</u>                     | :<br>-   | 두  | <b>F</b>   | n<br>A     | _  | -<br>-  | Ē  | П  | П   | rs c   | +                                   |   | 十   | - F   | ĘĄ          | Œ.                             | <b>F</b> 1 | SÝ.                                 | 2 2                                    | <b>1</b> F              | Ę   | Ţ                         | 5                       | 5                                    | 71 5                           | D 5                                  |             | 3               | OBABLE (   |
|  |   |   |                                     | N                                     |   |                                      | _   |  |  |                |  | 1                                      | 1  | 20.  |              |   |   |   |   | 400   | 900           | 8   | -1  | 1  | 4  | 350  | 100  | 150  | 2          | 2  | 1200  | N  | 2  | 1   | -1   | <b>.</b>                            | 4   | 1   | 290   | 23          | 6                              | 721        | 1.185                               | 650                                    | 1 151                   | 8   | 9                         |                         | မ                                    | 9 5                            | 121                                  |             | OUANTITY        | CONSTRUCTION   |
| \$ 300,000,00  |   |   |                                     |                                       |   |                                      |   |  | \$ 25,000.00   |                |  |  |  | 00,000,00  | -            | 4 10 000 00   | \$ 65,000.00  | \$ 10,000,00  | ,   | \$ 150.00   | 9             | \$ 150,000.00   | \$ 270,000,00   |  | 30,000.00  | \$ 650.00  | \$ 690,00  | \$ 710.00  | 110.000.00 | 10,  | \$ 740.00   | \$ 40,000.00   |  |   | \$ 56,000.00   |                                     | \$ 75,000.00  | \$ 975,000,00   | \$ 313.00   | \$ 1,800.00 | \$ 90.00                       | \$ 16.00   |                                     |  | 30,000                  |   |                           |                         |                                      |                                | \$ 5,000,00                          | 1           | UNIT PRICE (\$) | N COST - ALL WORK  |
| \$ 300,000.00  | 2 4   | A 61  | 9 69                                | မေ                                    | 69  | 69                                   | <del>(</del> /3                                       | ψ>   | 4  | 9              | 65   | 69                                     | £9 €   | \$ 70,000,00   | e i          | \$ 10,000,00  | \$ 65,000.00  | \$  |   | \$ 60,000.00  |               | \$ 1,200,000.00   | \$ 270,000.00   | 6  | 9 6  | 9 69   | \$   | \$ 106,500.00  | 69         | \$ 20,000.00   | \$ 888,000.00   | \$ 80,000,00   | 64   | ₩   | \$ 56,000.00   | 9 (                                 |   | \$ 975,000.00   | \$ 41 119.50  |             |                                |            |                                     |  | \$ 149,630,00           |   |                           |                         | \$ 6,000.00                          |                                | \$ 45,000,00                         |             | AMOUNT (\$)     |  |
|  |   | 30%   |                                     |                                       |   |                                      |   |  |  | 50%            | 50%  | 50%                                    | 50%  | 15%  | 24%          | 50%   | 50%   |   | 7805  | 50%   | %0%           | 50%   | 50%   | 20.00  | 50%  | 7605<br>7005   | 50%  | 50%  | 50%        | 50%  | 50%   | 50%  | 50%  | 80%   | 30%  | 50%                                 |   | 30%   |   |             |                                |            |                                     |  |                         |   |                           |                         | 35% (                                |                                |                                      |             | LABOR           |  |
| \$ 90,000.00   |   | \$ 27,500.00  |                                     |                                       |   |                                      |   |  |  |                |  |  |  | \$ 10.500.00   |              | \$ 5,000,00   | \$ 32,500.00  |   |   | \$ 30,000.00  |               | \$ 600,000.00   | \$ 135,000.00   |  |  |  |  | \$ 53,250,00   |            | \$ 10,000.00   | \$ 444,000.00   | \$ 40,000.00   | \$ 25,000.00   |   | \$ 16,800.00   |                                     | \$ 22,500.00  | \$ 292,500.00   | \$ 12,335,85  |             |                                |            |                                     | \$ 14,625.00                           |                         |   |                           |                         |                                      |                                | \$ 6,750,00                          |             | LABOR COST      |  |
| 0 \$ 210,000.00<br>0 \$ 105,000.00   | cs c  | 6 <del>9</del> 6  | 0 \$ 52,500,00                      | A 4                                   | 69  | 69                                   | မာ  | ક્ક  | •  | A              | 69   | €₽                                     | \$   | 0 \$ 59,500,00   | EA .         | 5,000.00  | 32,500.00   | •   |   | 30,000.00   | 69            | 5 \$ 600,000.00   | 35,000.00   | •  | 69 6   | SA 6   | 9 69   | G  | G9         | \$ 10,000.00   | \$ 444,000.00   | \$ 40,000.00   | 66   | 6   | \$ 39,200.00   | 69                                  | 69  |   | 69 6  | A GA        | 69                             | \$         | €9                                  | 69                                     | 69 6                    | P) G  | 9 69                      | €9                      | 4n                                   | 69                             |                                      | A           | MATERIAL COST   |  |

| PAGE | SCHEDULE OF BID ITEMS AND ESTIMATE OF PROBABLE CONSTRUCTION COST - ALL WORK |
|------|---|
|------|---|

|          | 130   | 120   | 128   | 127                             | 126                                       | 125              | 124              | 123             | 122  | 121                                   | 120         | 119                           | 118                         | 117  | 116   | 115   | NO.  | LINE                |  |                                  |
|----------|---|---|---|---------------------------------|---|------------------|------------------|-----------------|--|---------------------------------------|-------------|-------------------------------|-----------------------------|--|---|---|------|---------------------|--|----------------------------------|
|          |   |   |   |                                 |   |                  |                  | 01050-1         |  |                                       | 16780-1     | 16675-1                       | 16620-1                     | 16000-7  | 16000-6   | 16000-5   |      | ITEM                |  |                                  |
|          | ESTIMATE OF PROBABLE CONSTRUCTION COST - ALL WORK (ROUNDED TO NEAREST \$100K) | ESTIMATE OF PROBABLE CONSTRUCTION COST - ALL WORK | DEDICATED INSPECTOR GENERAL AUDIT ACCOUNT (0.25%) | GENERAL ALLOWANCE ACCOUNT (10%) | SUBTOTAL ALL WORK (SPECIALTY AND GENERAL) | DIVISION 1 (10%) | SUBTOTAL         | AS-BUILT SURVEY | OPERATOR'S BUILDING STRUCTURE, ARCHITECTURAL FINISHES, LIGHTING, MECHANICAL AND PLUMBING | FIRE PROTECTION AND FIRE ALARM SYSTEM | CCTV SYSTEM | EMERGENCY FUEL SHUTOFF SYSTEM | STANDBY EMERGENCY GENERATOR | TELECOMMUNICATION SERVICE TO OPERATOR'S BUILDING | CONTROL SYSTEM DUCT BANKS, PANELS, RACKS, AND ALL INCIDENTALS | LIGHTING SYSTEM DUCT BANKS, FIXTURES, SWITCHES, AND ALL INCIDENTALS |      | DESCRIPTION         | SCHEDULE OF BID ITEMS AND ESTIMATE OF PROBABLE CONSTRUCTION COST | do dadual. Talia Codvo Login vin |
|          |   |   |   |                                 |   |                  |                  | LS              | LS.  | LS                                    | 5           | 5                             | 5                           | 5 6  | 5 5   | 5   |      | U/M                 | BABLE  | 2007                             |
|          |   |   |   |                                 |   |                  |                  |                 | 1  | 1                                     |             |                               |                             |  |   |   |      | QUANTITY            | CONSTRUCTIO  | Dal Cad INC                      |
|          |   |   |   |                                 |   |                  |                  | \$ 10,000,00    | \$ 932,670.40  | \$ 950,000,00 \$                      |             |                               | 1,0                         |  |   |   |      | UNIT PRICE (\$)     | IN COST - ALL WORK   | . 62760                          |
| ALL WORK | \$ 16,700,000.00  | \$ 16,689,994.22                                  | \$ 37,845.79                                      | \$ 1,513,831.68                 | \$ 15,138,316.75                          | \$ 1,376,210.61  | \$ 13,762,106,14 | \$ 10,000.00    | \$ 932,670.40  | \$ 950,000.00                         |             |                               | 9 6                         |  | 500,000   |   |      | AMOUNT (\$)         |  |                                  |
|          |   |   |   |                                 |   |                  |                  | 75% \$          | 35%  | \$0%                                  | 200%        | 2078                          | 2002                        | 780E   | 2002  | \$ 700c   | 2007 | LABOR<br>PERCENTAGE |  |                                  |
| ALL WORK | \$ 6,800,000.00 \$  | \$ 6,792,261.95 \$                                |   | \$ 616,078.18 \$                | 6,160,781.81                              | 560,0/1.0/       | 5,600,710.74     |                 | 326,434.64   | \$ 00,000,00                          |             | 20,000,00                     | 37,500,00                   | 200 000 000                                      | 3,000,00  | 45,000,00   |      | LABOR COST          |  |                                  |
| ALL WORK | _ [   |   |   | _                               | , a                                       |                  | α                |                 | <br>  g  | \$ 300,000,00                         |             | 400,000,00                    |                             | 7  |   | \$ 105,000,00   |      | MATERIAL COST       |  |                                  |

SCHEDULE OF BID ITEMS AND ESTIMATE OF PROBABLE CONSTRUCTION COST - ALL WORK PAGE 1 of 1

0.60%

|                           | ဖ   | æ   | 7   | ი                               | 5                 | 4 | 3            | 2                                      | 1  | NO. | ENE             |  |
|---------------------------|---|---|---|---------------------------------|-------------------|---|--------------|--|--|-----|-----------------|--|
|                           |   |   |   |                                 |                   |   |              |  |  |     | ITEM            |  |
|                           | ESTIMATE OF PROBABLE CONSTRUCTION COST - ALL WORK (ROUNDED TO NEAREST \$100K) | ESTIMATE OF PROBABLE CONSTRUCTION COST - ALL WORK | DEDICATED INSPECTOR GENERAL AUDIT ACCOUNT (0.25%) | GENERAL ALLOWANCE ACCOUNT (10%) | SUBTOTAL ALL WORK |   | SUBTOTAL     |  | Cleaning, Printing, Transportation, Food Truck |     | DESCRIPTION     | MIA WEST CARGO FUEL TENDER RELOCATION - PROJECT P256E<br>ESTIMATE OF GOODS AND SERVICES 0.6% |
|                           |   |   |   |                                 |                   |   |              |  |  |     | U/M             | ND SERV  |
|                           |   |   |   |                                 |                   |   |              |  |  |     | QUANTITY        | ION - PROJECT  |
|                           |   |   |   |                                 |                   |   |              |  |  |     | UNIT PRICE (\$) | P256E  |
| ALL WORK                  | \$ 100,000.00   | \$ 76,932.45                                      | \$ 174.45   | \$ 6,978.00                     | \$ 69,780.00      |   | \$ 69,780.00 |  | \$ 69,780.00                                   |     | AMOUNT (\$)     |  |
|                           |   |   | ***************************************           |                                 |                   |   |              |  |  |     | LABOR           |  |
| ALL WORK                  |   |   |   | •                               | -                 |   | -            | ************************************** |  |     | LABOR COST      |  |
| MATERIAL COST<br>ALL WORK | 1   | 45  | 4   | 6                               | 4                 |   | €A           |  |  |     | MATERIAL COST   |  |

Goods & Services Percentage of Total Work

| Marie   Mari  | TERM  | \$ 1,500,000.00                         | \$ 1,000,000.00 |       |            |                |       |              | ESTIMATE OF PROBABLE CONSTRUCTION COST - GENERAL WORK (ROUNDED TO NEAREST \$100K)  |              | 5 S  |
|---|---|---|-----------------|-------|------------|----------------|-------|--------------|--|--------------|------|
| Marie   Mari  | Property   | 45                                      | 920,398.22      |       | 2,39       |                |       |              | DEDICATED INSPECTOR GENERAL AUDIT ACCOUNT (0.25%)  |              | 49   |
| PRINTS   P  | Control   Cont  | 67                                      | 2,087.07        |       | ,          |                |       |              | GENERAL ALLOWANCE ACCOUNT (10%)  |              | 48   |
| Marie   Mari  | Control   Cont  |   | 83.482.83       |       | 1          |                |       |              | GENERAL WORK SUBTOTAL  |              | 47   |
| MITTAND   CONSISTANT CONTROLLAR  | Property   |   | 75,893.48       |       |            |                |       |              |  |              | 8    |
| PRINTED     CONTROL SET FORCE   CONTROL SET   | Transpare   Tran  |   | 758,934.83      |       |            | ┿              |       |              |  | 01000        | 45   |
| MATERIAN   CHANGO BAT FINEST   CHANGO BATTON  | Indication  |   | 7,500.00        | 75%   |            | 10,000.00      | -1    | LS           | RELOCATION AND RECONNECTION OF ELECTRICAL EXCHANGES OF THE STATE OF TH | 16000-2      | \$ 2 |
| PRINTER   | PRINT   | 37                                      | 51,727.98       | 30%   | اد         | 172,426.60     | -3    | 2            | DISCUNNECTION AND REMOVAL OF ELECTRICAL FOLLOWERS TO EXCEPT TANK   | 16000-1      | t)   |
| TEAN   CHANGE BLY DESCRIPTION   CHANGES   CHANGE BLY DESCRIPTION   CHANGES BLY DESCRIPTION   CHANGES BLY DESCRIPTION   CHANGES BLY DESCRIPTION   CHANGES BLY DESCRIPTION   CHANGE BLY DESCRIPTION   CHANGES BLY DESCRIPTION   CHANGE BLY DESCRIPTION   CH  | TEAN   DESCRIPTION   DESCRIPTION   UNIT QUADATT   VITA QUADATT  | 37                                      | 3,725.70        | 30%   |            | 12,419,00      |       | LS I         | INSTALLA ION OF LIGH NING PROTECTION AND GENOTING AT EXISTING DIESEL TANK  | 13100-1      | 4    |
|   | PRINTED   PRINTED   CONTROLLED   | "                                       | 22,500.00       | 30%   |            | 75,000.00      |       | IS!          | INSTALLATION OF GROUNDWATER MONITORING VECTOR  | P-713-1      | 4    |
|   | TITALE   DESCRIPTION   DESCR  | "                                       | 10,500.00       | 15%   |            | 2,000.00       |       | E 8          | DIESEL TANK FOUNDATION, GENERALOK PAD AND CHIER STRUCTURES   | 3300-1       | 39   |
|   | TERM  |   | 16,800.00       | 30%   |            | 56,000,00      |       | S            | FILTER BUILDING STRUCTURE, ARCHITECTURAL FINISHES, LUSHTING MECHANICAL AND FLUMING   | P-610-2      | 38   |
| PRESENTE   PROPERTY   | PRINTED     DESCRIPTION   DE  | 77                                      | 150,000.00      | 50%   |            | 300,000,00     |       | S            | VENTS, AND MISCELLANEOUS STRUCTURES. CHURCHES LICETURE MECHANICAL AND BLIMBING   | 200          | 37   |
| TRANS   DIAGRAS DIL FERNE   DESCRIPTION   DIM DIAGRAS   | TENN   DESCRIPTION   DESCRIP  | ٠,                                      | 22,500.00       | 30%   |            | 75,000.00      |       | હ            | CONCRETE PADS FOR ISOLATION VALVE PITS, MONITORING WELLS, LOW POINT DRAINS, HIGH POINT   | 2.240.4      |      |
| CHESALADITI STANCED SILT FENDER   CASCOLUTION   CASCOLUT  | TERM   DESCRIPTION   DESCRIP  |   | 12,330.00       | 30%   | 41,119.50  | 274.13         | 150   | F            | 2.W.4 (NCH PVC DUCT, CONCRETE ENCASED CONDUIT, EXCAVATION AND CONDUCTOR  | L-110-5.1.2  | 36   |
|   | TENN   DESCRIPTION   DESCRIP  |   | 27,231,00       | 30%   | 90,770,00  | 313.00         | 290   | Fi           | 2-W-6 INCH PVC DUCT, CONCRETE ENCASED CONDUIT, EXCAVATION AND CONDUCTOR  | L-110-5.1.1  | 35   |
| TITER   DESCRIPTION   DESCRI  | The bold   Processed   Proce  |   | 12,420.00       | 30%   | 41,400.00  | 1,800.00       | 23    | Ē            | BOLLARDS   | S-2-1        | 3 4  |
| TERM   DESCRIPTION   DESCRIPTION   UNIT PRICE   STANDER   STANDER   CAPTAGE   CAPTAGE   STANDER   CAPTAGE   CAPTAG  | TERM   DESCRIPTION   DESCRIP  |   | 276.00          | 40%   | 540,00     | 90.00          | 6     | 5            | WHEEL STOPS (PRECAST CONCRETE)   | \$1.5        | 2    |
| TEMN   DISCRIPTION   DISCRIP  | TENN   DESCRIPTION   DESCRIP  |   | 4,514.40        | 40%   | 11,536.00  | 16.00          | 721   | 'n           | CONCRETE CURB FDOT TYPE "D"  | S-1-1        | 3    |
| TEM     DESCRIPTION   DESCRI  | TEMN   DESCRIPTION   DESCRIP  |   | 00.796,7        | 8,00  | 5,925,00   | 5.00           | 1,185 | SY           | SODDING  | T-904-4.1    | 3    |
| TREAD   DESCRIPTION   DESCRI  | TERM     DESCRIPTION   DESCR  |   | 00.520,61       | %DC   | 29,250.00  | 45.00          | 650   | sy           | CONCRETE SIDEWALK (6-INCH REINFORCED)  | FDOT 522-1   | 3    |
| TREAD   DESCRIPTION   DESCRI  | TERM     DESCRIPTION   DESCR  |   | 11/4,/41.00     | /0%   | 149,630.00 | 130,00         | 1,151 | TON          | ASPHALT CONCRETE PAVEMENT - TYPE SP-12.5   | FDOT 334-1   | 29   |
| TREAT   DESCRIPTION   DESCRI  | TERM   DESCRIPTION   DESCRIP  |   | 00 772 707      | 40%   | 2,520.00   | 9.00           | 280   | F            | REMOVE CHAIN LINK FENCE  | F-162-5.2    | 28   |
|   | TERM   DESCRIPTION   DESCRIP  |   | 800.00          | 30%   | 2,300.00   | 50.00          | 46    | F            | CHAIN LINK FENCE (8 FEET + 1 FOOT OUTRIGGERS)  | F-162-5.1    | 27   |
|   | TITEM   DESCRIPTION   DESCRI  |   | 205.00          | 25%   | 450.00     | 3,00           | 150   | SF           | PAVEMENT PAINTING FINAL (NON-REFLECTIVE)   | P-620-5.1    | 36   |
| TEAN  | TRANSPORTED NOTE PARTENING UP TO SANCHEST NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOT  |   | 487.50          | 25%   | 1,950.00   | 75.00          | 26    | NOL          | AGGREGATE - SST  | B-809-50     | 315  |
| ITEM   DESCRIPTION   DESCRIP  | TEAN  |   | 2,446.50        | +     | 9,786.00   | 7.00           | 1,398 | GAL          | BIT IMMINOUS TACKS COST  | P-000-0.1    | 3 2  |
| TIEM   DESCRIPTION   DESCRIP  | Page 1, 100   Page 2, 101   Page 2, 101   Page 2, 101   Page 3, 101   |   | 414,40          | 10%   | 4,144.00   | 4,00           | 1,036 | GAL          | BILUMINOUS FRUME COM   | P-602-5.1    | 3 2  |
| TIEN   DESCRIPTION   DESCRIP  | TEAN   DESCRIPTION   DESCRIP  |   | 2,762.00        | 25%   | 11,048.00  | 8.00           | 1,381 | Ω <u>Α</u>   | LIMEROCK BASE CUURSE (12-INCRES I FIION)   | P-211-5.1    | 21   |
| TIEM   DESCRIPTION   DESCRIPTION   UNIT PRICE (\$) AMOUNT (\$)   LADOR COST   LADOR  | TITEM   DESCRIPTION   DESCRI  |   | 8,387,40        | 10%   | 83,874.00  | 21.00          | 3.994 | SY           | THROUGH 1000 GPM   | 100          | 20   |
| TIEM   DESCRIPTION   DESCRIP  | TITEM   DESCRIPTION   DESCRI  |   | 10,500.00       |       | 17,500.00  | 35.00          | 500   | HOUR         | DEWATERING/TREATMENT OF CONTAMINATED GROUNDWATER HOURLY UNIT FLOW RATE 500 GPM   | P-160-4 10   |      |
| TIEM   DESCRIPTION   DESCRIP  | TITEM   DESCRIPTION   DESCRIPTION   DESCRIPTION   LABOR   LABOR   LABOR COST   MATERIAL COST  |   |                 | _     | Calonda    | 90,00          | 1,000 | 2002         | THROUGH 499 GPM  | P-160-4.9    | 6    |
| TEMN   DESCRIPTION   DESCRIP  | TIEM   DESCRIPTION   DESCRIP  |   | 18.000.00       | _     | 30,000,00  | 30.00          | 1 000 | מ            | DEWATERING/TREATMENT OF CONTAMINATED GROUNDWATER HOURLY UNIT FLOW RATE 300 GPM   |              | 12   |
| TIEM   DESCRIPTION   DESCRIPTION   UNIT PRICE (3)   AMOUNT (3)   PERCRITAGE   LABOR COST  | TIEM   DESCRIPTION   DESCRIPTION   LABOR   L  |   | 30,000.00       | -     | 50,000.00  | 25.00          | 2,000 | HOUR         | DEWATERING/TREATMENT OF CONTAMINATED GROUNDWATER HOURLY UNIT FLOW RATE LESS THAN 300   | P-160-4.8    | ;    |
| TIEM   DESCRIPTION   DESCRIPTION   LABOR   LABOR   LABOR   COST   TIENCE   STAKED SILT FENCE   STAKED SI  | TIEM   DESCRIPTION   DESCRIP  |   | 14,101.70       | _     | 220,100,00 | 33.00          | 8,018 | ON           | TRANSPORTATION/INCINERATION OF SOIL  | P-160-4.4    | 17   |
| TIEM   DESCRIPTION   LABOR  | THEM   DESCRIPTION   DESCRIP  |   | 114 157 75      | 2026  | 37,200,00  | 20.00          | 932   | ON           | TRANSPORTATION/DISPOSAL OF NON-HAZARDOUS SOIL AT A LANDFILL  | P-160-4.3    | 6    |
| TIEM   DESCRIPTION   DESCRIPTION   DIM PRICE (\$)   AMOUNT (\$)   PRICENTAGE   LABOR COST   DISSZ-5.01.1   STAKED SILT FENCE  | TITEM   DESCRIPTION   DESCRI  |   | 3,700.00        | 35%   | 27,350,00  | 60.7           | 3,994 | SY           | STABILIZED SUBGRADE (12-INCHES THICK)  | P-154-5.1    | 5    |
| THEM   DESCRIPTION   DESCRIP  | TIEM   DESCRIPTION   DESCRIP  |   | 02.582.0        | 7635  | 22,020,00  | 150.00         | 100   | 2            | CONTROLLED LOW STRENGTH MATERIAL (CLSM)  | P-153-7.1    | 4    |
| TIEM   DESCRIPTION   DESCRIPTION   DIA QUANTITY   UNIT PRICE (\$)   AMOUNT (\$)   PERCENTIAGE   LABOR   COST   MATERIAL   CONTINUE FABRIC   COST   CO  | ITEM   DESCRIPTION   DESCRIP  |   | 1,404.90        |       | 4,014.00   | 6.00           | 669   | S            | EMBANKMENT   | P-152-4.5    | 13   |
| TITEM   DESCRIPTION   DESCRIPTION   UM PRICE (\$)   AMOUNT (\$)   PRICE (\$)   AMOUNT (\$)   PRICE (\$) | TITEM   DESCRIPTION   DESCRI  |   | 1,402.80        | -     | 4,008.00   | 12.00          | 334   | ર            | ON-SITE BORROW   | P-152-4.4    | 3    |
| TITEM   DESCRIPTION   DESCRIPTION   DISCRIPTION   DISCRI  | ITTEM   DESCRIPTION   DESCRI  |   | 4,214.70        | 35%   | 12,042,00  | 18.00          | 669   | TON          | OFF-SITE BORROW  | p_15243      | 1 2  |
| TIEM   DESCRIPTION   DISCRIPTION   DISCRIP  | TITEM   DESCRIPTION   DESCRI  |   | 2,795.80        | 35%   | 7,988.00   | 2.00           | 3,994 | SY           | DRONE ADMINISTRATIVE VIEWS   | D 153.43     | 3 4  |
| TIEM   DESCRIPTION   DESCRIPTION   UM QUANTITY   UNIT PRICE (\$)   AMOUNT (\$)   PERCENTAGE   LABOR COST   MATERIAL COST   MAT  | ITEM   DESCRIPTION   DESCRIP  |   | 600.00          | 60%   | 1,000.00   | 1,000.00       | -1    | S            | REMOVE ABANDONED WILLIAM VACE.   | 7-1014.0     | a    |
| TIEM   DESCRIPTION   UM QUANTITY   UNIT PRICE (\$)   AMOUNT (\$)   PERCENTAGE   LABOR COST   MATERIA  | ITEM   DESCRIPTION   DESCRIPTION   DESCRIPTION   LABOR COST   LABOR COST   MATERIA   DESCRIPTION   LABOR COST   MATERIA   DESCRIPTION   LABOR COST   MATERIA   DESCRIPTION   LABOR COST   MATERIA   DESCRIPTION   LF   1,950   3.00   5,850.00   20% \$ 1,170.00 \$ 1,000.50   3.00  |   | 1,200.00        | _     | 2,000.00   | 2,000.00       | -1    | LS           | REMOVE ABANDONED MITER SET OF STORE  | P-151-4.0    | ,    |
| TITEM   DESCRIPTION   DESCRIPTION   UM QUANTITY   UNIT PRICE (\$)   AMOUNT (\$)   PERCENTAGE   LABOR COST   MATERIA   | ITEM   DESCRIPTION   DESCRIP  |   | 15,000.00       | _     | 25,000.00  | 25,000.00      | -     | rs<br>Ls     | DEMOLITION OF UNDERGROUND OTHER IT THE GOVERNMENT TO SECTION OF THE SECTION OF TH | P-151-4.4    | ı o  |
| ITEM   DESCRIPTION   UM QUANTITY   UNIT PRICE (\$)   AMOUNT (\$)   PERCENTAGE   LABOR COST   MATERIA  | TIEM   DESCRIPTION   DESCRIP  |   | 20,790.00       | _     | 41,580.00  | 231.00         | 180   | F .          | CLEARING AND GRUBBING  THE TY DEBNG (6-100-100)  RELICHED TO SELECTED THE TY DEBNG (6-100-100)   | P-151-4.3    | cn   |
| ITEM   DESCRIPTION   UM QUANTITY   UNIT PRICE (\$)   AMOUNT (\$)   PERCENTAGE   LABOR COST   MATERIA  | TIEM   DESCRIPTION   DESCRIP  | *************************************** | 936.60          | _     | 2,676,00   | 4.00           | 688   | S            | DEMOLITION OF CONCRETE PAVEMENT (UP 10 15-INCHES THICK)  | P-151-4.2    | 4    |
| ITEM   DESCRIPTION   UM QUANTITY   UNIT PRICE (\$)   AMOUNT (\$)   PERCENTAGE   LABOR COST   MATERIA  | TIEM   DESCRIPTION   DESCRIPTION   DESCRIPTION   LABOR COST   LABOR COST   MATERIA  |   | 9,693,75        | _     | 38 775.00  | 25.00          | 1 551 | 2 0          | DEMOLITION OF BITUMINOUS PAVEMENT (UP TO 6-INCHES)   | P-151-4.1    | ω    |
| ITEM   DESCRIPTION   U/M QUANTITY   UNIT PRICE (\$) AMOUNT (\$)   PERCENTAGE   LABOR COST   | ITEM   DESCRIPTION   DESCRIPTION   LF   1,950   3,00   5,850.00   20% \$ 1,170.00 \$   150.00 \$ \$ 1,50.00 \$ \$ 1,50.00 \$ \$ 1,50.00 \$ \$ 1,50.00 \$ \$ 1,50.00 \$ \$ 1,50.00 \$ \$ 1,50.00 \$ \$ 1,50.00 \$ \$ 1,50.00 \$ \$ 1,50.00 \$ \$ 1,50.00 \$ \$ 1,50.00 \$ \$ 1,50.00 \$ \$ \$ 1,50.00 \$ \$ 1, |   | 17 262 50       | _     | 00.000     | 10.00          | 200   | 2            | GEOTEXTILE FABRIC  | 01562-5.01.2 | 2    |
| DESCRIPTION  DESCR  | ESTIMATE OF COMMUNITY WORK FORCE PROGRAM  12/20/18  UM QUANTITY UNIT PRICE (\$) AMOUNT (\$) PERCENTAGE LABOR COST  170.00 \$ 170.00 \$  |   | 150.00          |       | 750.00     | 3.00           | 1,990 | ₹<br> <br> - | STAKED SILT FENCE  | 01562-5.01.1 | 4    |
| DESCRIPTION U/M QUANTITY UNIT PRICE (\$) AMOUNT (\$) DESCRIPTION LABOR COST   | ESTIMATE OF COMMUNITY WORK FUNCE PROGRAM  12/20/18  LABOR LABOR COST  UM QUANTITY UNIT PRICE (\$) AMOUNT (\$) PERCENTAGE  LABOR COST  |   | 1 170 00        | -     | 3          | 3              | 1_    |              |  | = 1          | Ņ.   |
|   | ESTIMATE OF COMMUNITY WORK FUNCE PROGRAM  | WATERIA                                 |                 | LABOR |            | NIT PRICE (\$) |       | C/M          | DESCRIPTION  |              | LINE |