SECTION 010001X MOBILIZATION/DEMOBILIZATION

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| **NOTE TO ENGINEER – Engineer shall add or remove items from this section as required for items related/unique to the project.** |

# PART 1 – GENERAL DESCRIPTION

**1.1** This item shall consist of the performance of construction preparatory operations, including the movement of personnel, equipment, and materials to and from the project site; field survey and stake-out; payment of performance bond, payment bond, guaranty bond, and other insurance premiums; cranes and equipment rented; the creation, maintaining and submittal of final record drawings; general requirements of the Contract not otherwise included in pay items; and for the establishment and subsequent removal of the Engineer’s and Contractor's offices and other facilities necessary to begin and sustain work on a substantial phase of the contract. At the completion of work, all areas disturbed by the Contractor's operations shall be restored to substantially the same condition as existed prior to commencement of mobilization operations.

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| **Engineer shall consider the list below for items which may be included in the Mobilization/Demobilization bid price. Add or remove items from this section as required for items related/unique to the project. Do not include items which are covered elsewhere in the Technical Specifications.** |

1. Temporary Fire Protection

2. Temporary Heating and Cooling

3. Temporary covered walkways

4. Street Cleaning

5. Traffic control maintenance

6. Temporary barricades and signage

7. Temporary partitions

8. Temporary toilets

9. Pre-construction photos

10. Progress photos

11. Temporary protection of adjacent spaces/ structures

12. Temporary weather protection

13. Trash Chutes

14. Dumpsters

15. Safety expenses (first aid, drug testing, etc.)

16. Engineer’s trailer

17. Contractor’s trailer

**PART 2 - PRODUCTS**

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| **Engineer shall modify or remove the following section as necessary, as radios are only required for any project requiring the contractor to be aware of ground frequency.** |

**2.1 RADIOS.** Radios shall be capable of transmitting and receiving between the Control Tower and the airfield work sites on a frequency of 121.9 MHZ for ground control and 154.98 MHZ for Airport Operations, as specified or required herein. Sufficient radios shall be on site and operating at all times so that instructions for communications may be dispatched to all crews and/or equipment working in an active Airport Operations Area (AOA). Radios shall not be used within 10 feet of the fill or vent points of the aircraft fuel systems unless they are intrinsically safe for Class I, Division 1, Group D hazardous areas (classified conditions) in accordance with ANSI/UL 913.

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| **Engineer shall modify this section as necessary to add or remove items that are appropriate for the project.** |

**2.2 CONTRACTOR’S STAGING AREA.** A Contractor’s staging area has been provided and is shown on the Plans. All work associated with setting up the staging area including cleaning, fencing, stabilization, protection, providing all required utility (electric, water, communications, etc.) connections shall not be paid separately and considered incidental to Mobilization/Demobilization. All areas disturbed by the installation or construction of the Engineers/Contractor’s Office, stockpiles, haul routes, vehicle parking areas, and incidentals shall be restored to their pre-construction condition at the completion of the project unless otherwise directed by the construction manager.

**PART 3 – EXECUTION**

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| **Engineer shall modify this section as required for items related/unique to the project. Delete items which are not applicable to the project.** |

**3.1 CONSTRUCTION LAYOUT.** The Contractor shall provide a Professional Land Surveyor licensed in the State of Maryland to perform field layout of the horizontal and vertical control. Surveyor shall furnish all other lines, grades, and measurements necessary for layout and construction of the project as well as documentation of Record Drawings. Survey information from construction shall be incorporated into record drawings for submittal to the Engineer.

**5-3.2 COMMUNICATIONS.** Contractor shall provide radios/cell phones for communication for his personnel on the job site. The frequency utilized for these transmissions shall be selected by the Contractor and approved by the Engineer, but shall not conflict with or overlay any of the Airport’s radio frequencies. The Contractor’s personnel required to be provided with communication devices shall at a minimum include the Project Superintendent, Foreman of all work groups physically separated from the general vicinity of the project Superintendent, gate guards, safety personnel and others who may be working in a separate and remote area.

 For work adjacent to or impacting taxiways, runways, or apron areas, the Contractor shall have two-way radios capable of operating on both the FAA ground control and MAA Airport Operations frequencies. Sufficient number of radios shall be deployed to allow each isolated area to have direct communications ability.

**5-3.3 AS-BUILT SURVEY**. The Contractor shall provide as-built drawings in accordance with the Contract Documents. The Contractor is to provide the Engineer with a compiled as-built survey at the completion of the project. The survey shall include the final as-built grades of the project. All underground utilities and infrastructure are to be surveyed at prior to backfilling, identifying both horizontal and vertical locations, and included in the as-built survey. Tops of all underground structures are to be located, again providing both horizontal and vertical locations at the center of the structure and included in the as-built survey. The survey shall provide state plane data in U.S. survey feet as defined by any of the accepted U.S. State Plane Coordinate System definitions. The Contractor shall use NAD83 and NAVD88 for horizontal and vertical datum respectively on top of all utilities and underground infrastructure as well as at the center of all structures. All of the above information shall be provided to the Engineer in an electronic 3D CADD file in AutoCAD compatible format.

## PART 4 - METHOD OF MEASUREMENT

**4.1** Payment for mobilization will be made on a lump sum basis wherein no measurement will be made.

## PART 5 - BASIS OF PAYMENT

**5.1** This item will be paid for at the contract lump sum price for Mobilization/Demobilization, which price shall be full compensation for performing the work specified and the furnishing of all materials, labor, tools, equipment, and incidentals necessary to mobilize and subsequently demobilize the construction preparatory operations.

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| **Engineer may adjust the percentages of payment installments as deemed appropriate for the project. Changes shall be approved by the MAA task manager. At no time shall the initial payment be more than 50%.** |

Payment for this item will be made in installments. The first payment of **XX** percent of the lump sum price will be included in the first progress estimate following partial mobilization including the placement or erection of the contractor's office and the initiation of construction work. The remaining **XX** percent of the lump sum price will be included as installments in subsequent progress estimates. Each such installment will be determined based on the ratio of the total work completed to date to the total contract amount.

**The lump sum price for Mobilization/Demobilization shall not exceed five (5) percent of the total Contract bid amount for base bid less the bid price for Mobilization/Demobilization, as shown on the provided Bid Tabulation Form.** No payment in excess of five (5) percent of the total Contract bid amount for base bid less the bid price for Mobilization/Demobilization will be made for this item. If the total cost for all items required for Mobilization/Demobilization is in excess of five (5) percent of the total Contract bid amount for base/alternate bid less the bid price for Mobilization/Demobilization, the Contractor shall include the excess in the unit price of other items of work.

No additional payment will be made for demobilization and remobilization due to weather related shutdowns, suspensions of the work or for other mobilization activities or for work under “Miscellaneous Work Allowance”.

Payment will be made under:

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| **Engineer to add items as needed for the project.** |

Item 010001X.1 Mobilization/Demobilization (Shall not exceed 5% of the total contract bid amount less the bid price for mobilization and demobilization) – per lump sum

**END OF SECTION 010001X**

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