WORK STATEMENT AND SPECIFICATIONS

PART 1 - GENERAL

1.1 GENERAL INTENTION AND DESCRIPTION OF WORK:

The Contractor will supply all labor, equipment and materials to complete the project in accordance with the drawings and intent of the project.

Intent of Project is to reconstruct new handicapped curb ramps for sidewalk curbs that are not in compliance with ABAAS standards. All work shall conform to the Federal Architectural Barriers Act Accessibility Standards (ABAAS), Chapter 4, Section 406 for curb ramps.

The work includes but not limited to:

Saw cutting and removing existing curbs as located on the plans.

Saw cutting and removal of existing sidewalk.

Saw cutting and removal/replacement of asphalt roadway in front of curbs to be replaced.

Reconstruction of sidewalk and construction of new handicapped ramps as shown and located on the plans.

All new concrete shall be reinforced as shown on the plans detail section. The sub-base will be compacted to 95%.

Finished product shall be of the same texture and color of the adjacent and existing concrete.

New detectable warning devices shall be purchased and installed in the new ramps as shown and located on the plans.

1.1.2 Bid:

Bid items listed below shall include all necessary and miscellaneous work to complete the project as described and intended. The Ramp number relates to the location and number on the key map. Type number relates to the type of ramp as shown on the ramp standard drawing detail.

Base:

Location of Ramp (#)	Proposed type(#)
20	4
21	6
21A	6 + add. 5' curb toward parking lot B-1

Option 1:

Location of Ramp (#)	Proposed type(#)
18	4
19	4

The work site is at the Federal Aviation Administration's William J. Hughes Technical Center (FAATC), Atlantic City International Airport, NJ. The work shall be performed in accordance with these specifications and the referenced drawings entitled "Basewide Handicapped Ramp Installation" complete and ready for use.

1.2. GENERAL CONDITIONS:

1.2.1 BID:

a. The low bidder for purposes of award shall be the conforming responsible bidder offering the lowest aggregate amount for the **BASE BID.**

b. Bidders are required to bid on all items within each of the **BASE BID**, and **OPTION** or their bid will be rejected as non-responsive.

c. No qualification statements shall be added to the bids. If qualification statements are added, the bids will not be considered.

d. The **BASE BID** will be awarded in its entirety.

e. *If the FAATC has sufficient funds it may choose to award option 1.* The timetable for the FAATC to award option 1 shall be up to and including two weeks from the last week of the contract.

f. When option 1 is awarded, any sub-item within the option may be deleted from the contract for the value given on the BID SCHEDULE.

1.2.2 **Occupancy:** The area in which the work is to be performed is at the FAATC at various locations.

The Contractor will have to provide traffic control and barricades (barrels, cones, sawhorses, or other traffic control devices with reflective material). Accordingly, the Contractor must arrange his work so minimize disruption to traffic and pedestrian flow at the site of work.

1.2.3 **Work Schedule:** The Contractor shall complete all work within **30 calendar days** of the **Notice to Proceed for the Base Bid, or 45 calendar days for both the Base Bid and Option**, if the options are included by the government. The Contractor will be permitted to work on weekdays from 7:30 a.m. to 5:00 p.m., and during weekday evening hours (5:00 to 7:30 p.m.) if prior approval is given by the FAA. No work shall be done after sunset, on weekends, nor on holidays without 48-hour prior approval.

1.2.4 **Davis Bacon Wage Rates:** All laborers and mechanics employed or working upon the site of work will be paid unconditionally and not less than once a week, and without subsequent deduction or rebate on any account, the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) at rates not less than those contained in the wage determination of the Secretary of Labor (General Decision Number NJ990002) regardless of any contractual relationship which may be alleged to exist between the Contractor and such laborers and mechanics. The Contractor shall comply with the requirements of the Copeland ("Anti-Kickback") Act (18 U.S.C. 874 and 40 U.S.C. 276c) and its implementing regulations (29 CFR Part 3), which prohibit inducing or intimidating employees to accept lessor compensation than they are entitled to under a contract of employment.

No Contractor or subcontractor performing any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such employees in any workweek in which the individual is employed on such work to work in excess of 40 hours in such workweek unless such employee receives compensation at a rate not less than 1 1/2 times the basis rate of pay for all hours worked in excess of 40 hours in such workweek.

Submission of certified payroll records to the Contracting Officer is not required under this contract, however, payroll records shall be maintained by the Contractor and shall be made available to the Contracting Officer or representatives of the Department of Labor, on request, for inspection, copying, or transcription.

1.2.5 Payment: ***Payment will be made as a lump sum at the completion of the job and upon acceptable inspection by the Resident Engineer.*** A progress payment clause is not included in this solicitation, and it will not be added to the resulting contract at the time of award. Bids conditioned upon inclusion of a progress payment clause in the resulting contract will be rejected as nonresponsive.

1.2.6. **Pre-Construction Conference:** Within 7 calendar days of contract award, and prior to the start of any on-site work, the Contractor shall meet at the project site with the Resident Engineer to review requirements for the job and conditions that could possibly interfere with successful performance. At this conference the Contractor shall provide a Specific Work Schedule and phasing plan, Traffic and Control Plan, Site Safety and Health Plan as well as all the technical submittals for FAATC review and approval.

1.3 **SUBMITTALS:** At or before the pre-construction conference, and before any on-site work is started, the Contractor shall provide a minimum of 4 copies (unless otherwise noted) of the following:

1.3.1 **Identification of Contractor Personnel:**

1.3.1.1 **Identification of Contractor Personnel and Equipment:** At or before the pre-construction conference the Contractor shall provide a list of personnel and equipment to be used on the job and identify the job superintendent. The Contractor shall prepare a list of emergency phone numbers and post it in conspicuous places.

1.3.2 **Traffic Control Plan:** The traffic control plan shall show how the traffic will be controlled, diverted, and detoured. The plan shall show types and number of controls used. Plan shall talk about notifying the FAATC. The plan shall be prepared to include barricades, cones, signs, and flagmen if necessary. The Contractor shall provide traffic control devices before any work begins. The contractor shall provide

warning and caution signage of construction and barricades to control traffic and protect the traffic and workers. A traffic lane may be closed or detoured provided that the proper signage, flagmen, detouring, and barricades are installed and implemented. This must be shown on the traffic control plan.

1.3.3 **Site Safety and Health Plan:** Provide Companies Site Safety and Health Plan.

1.3.4 **Concrete mix certification for the curbing and sidewalk**. Submittal required.

1.3.5 **Replacement asphalt mix certification**. Submittal required.

1.3.6 **Cast-in-place Detectable Warning Device.** Shop drawing is required showing fabrication details, surface profile, adhesives, materials, and installation requirements.

1.4 QUALITY ASSURANCE.

1.4.1 **Superintendence by the Contractor:** At all times during the performance of this contract the Contractor shall directly superintend the work, supplemented by support staff if needed, for quality control monitoring and testing, safety monitoring, and to otherwise ensure the requirements of this contract are met.

1.4.2 **Inspection of Construction:** The Contractor shall maintain an adequate inspection system and perform such inspections as will ensure that the work performed under this purchase order conforms to purchase orders requirements. The Contractor shall maintain complete inspection records and make them available to the FAA on request. Unless an alternate format is approved for use by the Resident Engineer, the Contractor shall document his observations, etc. on FAA Daily Construction Inspection Form CT 6900-3, including specific information on workers by classification, manhours, and work preformed in a general sense; the move-on and move-off of construction equipment and large vehicles; materials and equipment furnished by the contractor and subcontractors or by the Government delivered to the site; inspections and test performed; and the cumulative hours worked for the day.

1.4.3 **Oversight by the FAA:** All work shall be conducted under the general oversight by the FAA's Contracting Officer and

his representatives, including but not strictly limited, to the assigned Resident Engineer and Construction Inspector. All work is subject to Government inspection and testing at all reasonable times before acceptance to ensure strict compliance with the terms and conditions of this contract. Government inspections are for the sole benefit of the Government and do not relieve the Contractor of responsibility for providing adequate quality control measures at any time. The presence or absence of an FAA inspector does not relieve the Contractor from any contract requirement, nor is the inspector authorized to change any terms or conditions of the specifications without the Contracting Officer's written approval.

1.4.4 **Defective Work:** The Contractor shall, without charge, replace or correct work found by the Government representatives not to conform to the contract requirements. The Contractor shall promptly segregate and remove rejected materials from the premises. If the Contractor does not promptly replace or correct rejected work, the Government may (1) by contract or otherwise, replace or correct the work and charge the cost to the Contractor or (2) terminate for default the Contractor's right to proceed.

1.5 JOB CONDITIONS.

1.5.1 **Security:** The Contractor shall be responsible for making sure that all his employees have and display FAA-issued identification badges and vehicles passes while on the premises. The badges and passes will be issued at no cost by FAA security personnel. The Contractor shall be responsible for monitoring all personnel requiring access to the work site which shall include his personnel, delivery trucks, authorized visitors, etc. All identification badges and vehicle passes will be returned at the conclusion of the job or upon release of any employee or otherwise no longer in use. Payment will not be made until all security badges are obtained.

1.5.2 **Safety Requirements:** The Contractor shall comply with all fire, safety, and security regulations in effect, including those published by OSHA (namely 29 CFR 1926). In the event of a mishap or accident, the Contractor shall immediately notify the Contracting Officer, the FAA Safety

Officer, and the Resident Engineer, and complete FAA Form 3900-6 within 24 hours of the mishap or accident.

1.5.3 **Restroom Facilities:** There are no restrooms available to the Contractor. The contractor shall provide an on site portable toilet facility for use by his personnel, he shall locate it as directed by the Resident Engineer. The porta-pot shall be removed within 48 hours of completion of the contract.

1.5.4 **Storage Sheds/Trailers and On-Site Storage of Equipment:** The Contractor shall provide his own storage sheds or trailers for on-site storage of materials and equipment. The Contractor is solely responsible for securing the storage sheds or trailers, and equipment, at the site and the FAA takes no responsibility for theft or missing materials or equipment. The Resident Engineer will assign the Contractor a location for placement of his storage sheds or trailers; they will be removed from the site promptly upon completion of the work and, if the site is damaged, the site will be restored to it's pre-existing condition

1.5.5 **Workmanship:** All work under this contract shall be performed in a skillful and workmanlike manner. The Contracting Officer may require, in writing, that the Contractor remove from the work any employee the Contracting Officer deems incompetent, careless, or otherwise objectionable.

1.5.6 **Layout of Work:** The Contractor shall lay out its work from FAA-established base lines and bench marks indicated on the drawings and shall be responsible for the execution of the work to the lines and grades that are indicated or otherwise established. The Contractor shall provide, at its own expense, all stakes, templates, tools, equipment, and labor required to lay out the work. The Contractor shall be responsible to maintain and preserve all stakes and other marks established by the Contracting Officer until authorized to remove them.

1.5.7 **Location and Protection of Covered Utilities:** In the work area are some underground utilities. The Contractor shall call New Jersey One Call at 1-800-272-1000 or such utility locating service to clearly mark out all non FAA utilities. The contractor shall notify the FAA seven working days prior to and excavation so the FAA can mark its utilities. The contractor shall mark on the as builts the locations with dimensions of were the utility is and

what it is. If the contractor has to excavate across such lines he shall hand dig to locate them. Any damages of utilities or property shall be replaced at the sole expense of the contractor

1.5.8. **Differing Site Conditions.**

The Contractor shall promptly, and before the conditions are disturbed, give a written notice to the Contractor Officer of (1) subsurface or latent physical conditions at the site which differ materially from those indicated in this contract, or (2) unknown physical conditions at the site, of an unusual nature, which differ materially from those ordinarily encountered and generally recognized as inherent to the type of work provided for in the contract.

FAA shall investigate the site conditions promptly after receiving the notice. If the Contracting Officer determines that the conditions do materially so differ and cause an increase or decrease in the Contractor's cost of, or the time required for, performing any part of the work under this contract, whether or not changed as a result of the conditions, an equitable adjustment shall be made under this clause and the contract modified in writing accordingly.

No request by the Contractor for an equitable adjustment to the contract under this clause shall be allowed, unless the Contractor has given the written notice required; provided, that the time prescribed in (a) above for giving written notice may be extended by the Contracting Officer.

No request by the Contractor for an equitable adjustment to the contract for differing site conditions shall be allowed if made after final payment under this contract

1.5.9 **AVAILABILITY AND USE OF UTILITY SERVICES.**

The following utilities are available on site or at existing building:

Type	Cost	Remarks
Water	free of charge	Remote Access
Electricity	free of charge	Remote Access

1.5.10 **PROTECTION OF EXISTING VEGETATION, STRUCTURES, EQUIPMENT AND UTILITIES**

The Contractor shall protect from damage all existing improvements and utilities (1) at or near the work site and (2) on adjacent property of a third party, the locations of which are made known to or should be known by the Contractor. The Contractor shall repair any damage to those facilities, including those that are the property of a third party, resulting from failure to comply with the requirements of this contract or failure to exercise reasonable care in performing the work.

1.6 WARRANTY

The Contractor warrants for a period of three (3) years from the date of FAA acceptance that work performed under this contract conforms to the contract requirements and is free of any defect in equipment, material, or design furnished, or workmanship performed by the Contractor or any subcontractor or supplier at any tier. The Contractor warrants materials against failures resulting from normal exposure, but excluding failures due to unusual weather phenomena, failure of substrate, fire, abuse by unusual traffic, or other abnormal activities. The Contractor shall remedy at the Contractor's expense any failure or defect. This warranty shall be in addition to, and not a limitation of, other rights the FAA may have against the Contractor for latent defects, gross mistakes, or fraud.

The Contracting Officer will notify the Contractor, in writing, within a reasonable time after the discovery of any failure, defect, or damage. If the Contractor fails to remedy any failure, defect, or damage within a reasonable time after receipt of his notice, the FAA will have the right to replace, repair, or otherwise remedy the failure, defect, or damage at the Contractor's expense.

PART 2 - PRODUCTS

2.1 TOPSOIL:

Clean and screened topsoil. Topsoil shall be spread uniformly and evenly to an average thickness of four inches. Topsoil shall not be placed on the subgrade when it is excessively wet or frozen.

2.2 BACKFILL:

2.2.1 Clean,Screened topsoil shall be used

2.2.2 Aggregate Base: Shall be Recycle DGA conforming to NJDOT SSRBC (NJDOT Standard Specifications for Road and Bridge Construction).

2.3 BITUMINOUS CONCRETE PATCH:

Shall be I-5 and conform to NJDOT SSRBC.

2.4 CONCRETE MATERIALS:

2.4.1 Concrete - Concrete shall be ready mix concrete conforming to ASTM C 94. Concrete shall have 28 day compressive strength of 4,000 psi with 6% air entrainment and 3" slump. Concrete shall have ASTM C 150 Type I cement; Course aggregate conforming to ASTM C 33 - size 56 or 57, fine aggregate conforming to NJDOT Section 901.13; air entrainment conforming to ASTM C 260. The reinforcing steel shall be ASTM A615, Grade 60 and shall be deformed.

2.4.2 Expansion-Joint Filler - Shall be 1/2" thick conforming to ASTM D 1751 or ASTM D 1752.

2.4.3 Reinforcement - Shall be 6"x6" w1xw1.4 wire reinforcement, placed as shown on the plans sidewalk details.

2.5 DETECTABLE WARNING SURFACE: Shall be made of vitrified polymer composite (VPC) materials with ultra violet stabilized coating to minimize color wear, and a "non-slip" surface, incorporating "truncated domes" made of the same material. The detectable warning type shall be "Cast in Place" as used for new construction. The warranty for the tiles shall be for a period of five (5) years from the date of final completion of the installation. Detectable Warning tiles shall meet the requirements of the ABAAS sizes and general requirements. The detectable warning surface tiles shall be "Brick Red". Federal Color No. 31136

2.5.1 **CAST-IN-PLACE COMPOSITE PAVER W/TACTILE WARNING SURFACE:**

Meets the same criteria as above. Single piece for full width of the side walk. 24"X48" and 24"X60", slip resistance meeting ASTM C 1028, to be pressed in place in new concrete. Color Red Brick. As provided by ADA Solutions or equal.

PART 3 - EXECUTION

3.1 ENVIRONMENTAL:

The Contractor shall provide storm water management controls prior to any construction. This will include placing filter fabric over near on project, catch basins with hay bales around the catch basins. At the completion of the project the environmental measures shall be removed and the captured soils removed.

3.2 TRAFFIC CONTROL:

The Contractor shall notify the FAATC minimum in writing a minimum of two working days before work begins. The contractor shall install all traffic control measures before work beings. The part of the work is adjacent to Amelia Earhart Boulevard, FAATC main access to its main facility. The road is very busy with traffic and the drivers are not that considerate. The FAATC shall have access at all times along the road. A traffic lane may be closed or detoured provided that the proper signage, flagmen, detouring, and barricades are installed and implemented. This must be shown on the traffic control plan.

3.3 EXCAVATION:

Excavate to the lines and grades as shown on the plans. All existing suitable materials may be used for backfill. The contractor shall remove all excess earth, concrete or asphalt materials from the facility. Before any excavation, the contractor shall call for a utility beep out and hand dig to locate all know utilities.

3.4 BACKFILL:

Any additional backfill that may be required shall be clean select fill. All debris shall be removed daily from FAATC property by the contractor.

3.5 SUBBASE:

Shall be DGA stabilized base material, compacted to a minimum of 95% and conform to Section 901.08 of the NJDOT Standard Specifications for Road and Bridge Construction dated 2001 or latest Supplements or latest revisions.

3.6 ASPHALT REMOVAL AND REPLACEMENT:

Prior to starting the curb work, the existing roadway asphalt at the curbs shall be saw cut two feet out from the curb and removed. Also saw cut along existing road edges where new asphalt is to be installed. When replacing the road cut after installing the new curb, the subgrade shall be a minimum of 5" inches of compacted DGA and 3" inches of I-5 asphalt compacted minimum 95%. A bituminous tack coat shall be placed between the asphalt and the new concrete curb and between new and old asphalt. The joint between the old and the new asphalt shall be top sealed 3" wide, with tack.

3.7 CONCRETE SIDEWALK AND CURBING:

Curbs shall be set on affirm stabilized base. Forms shall be set to grade, alignment, and dimensions as shown on the plans. The texture, finish and color shall match the existing curbs. Finish of the curb concrete shall be float finish and then broom brushed. Curb form removal: The forms of the front of the curb shall be removed not less than 2 hours nor more than 6 hours after the concrete has been placed. Forms for the back of curb and the sidewalk shall remain in place until the face and top of the curb and top of the sidewalk have been finished, as specified for concrete finishing. Any saw cut for removing existing section of curbs shall have straight saw cut lines. The sidewalk shall be constructed as shown in the detail drawing and notes on the detail sheet.

Concrete sidewalk and ramps shall be 4,000 PSI class "A" concrete, at 28 day compressive strength, of matching color and texture of the existing and adjacent concrete, wire reinforcement (6"x6" w1.4xw1.4). Sub base for the sidewalk shall be 4" thick of compacted DGA.

All joints shall have a bitumastic joint filter. Expansion joints shall be every 10 feet. Protective linseed oil mixture shall be used after the curing period on all open curb areas. Backfilling materials shall match the surrounding area.

Within three days after the placement of new asphalt to finished grade, all joints shall be sealed 3" wide with hot bituminous material.

3.8 DETECTABLE WARNING SURFACE TILES FOR NEW CONCRETE: Pour and finish the concrete according to the drawings. Maintain the slump between 4-6. Check the slope of the concrete to make sure the slope meet the standard before installing the tile. Set tiles in accordance with the manufactures specifications. Tile anchors shall be DWS ABS and inserted into the anchors holes in the tile and flush to the panel surface. No pressure will be allowed on the tile for at least two days after they are set in the fresh concrete. When installation is complete, sponge or brush the surface to remove any excess concrete. No paint of any kind will be permitted of the tile surfaces.

3.9 LOCATION OF DETECTABLE WARNING TILES: Detectable warning surface tile shall extend the full width of the curb ramp or landing and in the direction of travel 24" from the back of curb. The detectable warning surface shall not be installed on the transition slope ramps. The detectable warning surface shall be located so that the edge nearest the curb line is between 6" and 8" from the face of curb unless noted in the contract documents.

3.09 REPAIR OF DISTURBED AREAS:

All areas damaged by the Contractor's equipment or by temporary storage of materials or equipment shall be repair to their original condition. All soil areas grade changes shall be covered with 6" of topsoil, fine graded, and seeded with mixture of perennial rye and fescue grasses.

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