

STATEMENT OF WORK
FOR
GLASS AND PAINTED ALUMINUM CURTAIN WALL CLEANING SERVICES
AT
RONALD REAGAN WASHINGTON NATIONAL AIRPORT

PREPARED BY: Metropolitan Washington Airports Authority
Ronald Reagan Washington National Airport
Engineering and Maintenance Department, (MA-120)
Maintenance Engineering Division, (MA-126)
November 20, 2009

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I. INTRODUCTION

The Metropolitan Washington Airports Authority (referred to herein after as "the Authority" or "MWAA") is responsible for the operation, maintenance and repair of Ronald Reagan Washington National (referred to herein after as "the Airport" or "DCA") and Washington Dulles International Airports. The Authority's headquarters is located at 1 Aviation Circle, National Airport. The purpose of this Statement of Work is to provide window and curtain wall cleaning services to various Authority owned buildings at Ronald Reagan Washington National Airport in Arlington County, Virginia.

The Base Contract of this SOW provides for the cleaning of interior and exterior surfaces of glass on numerous buildings at the Airport including Terminals A, B and C. Most of this glass is associated with the envelope of the building. It shall provide for the cleaning of the exterior painted aluminum curtain wall system (including the associated frames, spandrels, trim and louvers) on the street side (ticket and baggage levels) as well as the airside walls. There is approximately 680,000 SF of glass and 170,000 SF of painted aluminum curtain wall at the job site. The Glass and Painted Aluminum curtain wall are scheduled to be cleaned one time a year (July). The SOW also provides for supplemental services. There has been incorporated in some of this glass valuable artwork which must not be damaged by cleaning methods.

II. DEFINITIONS

Acceptance - The act of an authorized representative of the Authority by which the Authority approves partial or complete performance of the contract. **Acceptance must be in writing to be valid.**

Airline Terminal Building - Buildings on the Airport job site where commercial airline passengers purchase tickets and board flights. These buildings include the Terminals A, B, and C as well as Northwest Airlines and Old American Airlines (TWA) Terminal buildings.

Airport - Ronald Reagan Washington National Airport also known as "DCA" or the Airport "job site."

AOA - Aircraft Operation Area on the Airport airfield.

ATCT - Air Traffic Control Tower at the Airport.

Authority - The Metropolitan Washington Airports Authority (a.k.a. "MWAA").

Business Hours, Authority - For the purpose of this Statement of Work regular business hours of the Authority shall be 7:30 A.M. through 4:00 P.M. EST/EDT, Monday through Friday, excluding weekends and holidays.

Clean - Also referred to as "Cleanliness Quality" means shall mean a "like-new appearance entirely, or:

- The complete, comprehensive and thorough cleaning of any surface subject to cleaning as described herein including, but not limited to, corners and over all surfaces.
- The absence of any dirt, dust, litter, and debris including spider webs and birds nests as well as surface marks, including finger prints, spills or other undesirable bonded surface residue that can be eliminated by appropriate damp or wet cleaning techniques.
- The absence of any soil, wax or other undesirable visible material bonded build up including, but not limited to, bird droppings, as well as paint concrete and asphalt deposits which can be eliminated by appropriate heavy duty, cycle or project cleaning techniques.
- The presence of surface finish, gloss, protection, transparency, chemistry, and reflectivity equal to "like new" or levels designated by the Authority.
- The absence of minor dust lint, spots, streaks, marks, or other limited surface soil that can be eliminated by appropriate spot cleaning techniques.

A surface will be considered clean if: (1) immediately after wiping it with a clean white glove, there is neither a visible change in the appearance of the surface nor are appearance of a visible mark on the glove or (2) the Contractor demonstrates to the satisfaction of the COTR that any visible dirt, dust, foreign matter, film, grime, stains, finger prints, streaks, spots, blemishes, and/or chemicals residues which remain on the surface after cleaning and cannot be removed without permanently damaging the underlying surface.

Cleaning - The process of removing dirt, foreign matter, dust, grime, film, stains, finger prints, and chemical residues from the surfaces on which they are found.

Contracting Officer (CO) - An Authority employee with specific written authority to enter into, administer, and terminate contracts.

Contracting Officer's Technical Representative (COTR) - A person with delegated authority from the Contracting Officer to assist in carrying out the CO's responsibilities at the project site.

Contractor's Employees - For the purpose of this contract, the Contractor's employees shall mean (including but not limited to supervisors, managers, and administrators who are employed on the job site to fulfill the requests of the Statement of Work by the Contractor and/or any of its subcontractors.

Contractor's Project Manager (CPM) - The Contractor's designated representative who must be on the job site at all times while work is being performed by the Contractor to fulfill any of the requirements of this Statement of Work. The CPM shall have the responsibility, authority and resources to effectively fulfill all the requirements in the Statement of Work on the job site.

Contractor's Safety Compliance Supervisor (CSCS) - The Contractor's employee who shall be on the job site at all times while the Contractor is fulfilling the requirements of this Contract. This individual shall have the knowledge, responsibility, and authority to ensure compliance by the Contractor of all applicable environmental, health and safety regulatory requirements associated with fulfilling the requirements of this Statement of Work. The individual may perform other duties for the Contract.

Correction - The elimination of a defect.

Corrective Action - Means with respect to hazardous materials, investigation, passive remediation, active remediation removal cleanup, containment, sampling analysis or monitoring, or any of them.

Cleaner - An individual who performs window and/or curtain wall cleaning tasks.

DCA - Ronald Reagan Washington National Airport

Dirt - Earth or soil.

Dust - Fine particulate matter derived from many sources inside and outside the building. It is light enough to become airborne, so it can build up on any surface. It is often held in place by static electricity, which increases the difficulty of removal.

EDT - Eastern Daylight Time

EST - Eastern Standard Time

Federal Aviation Administration (FAA) - The agency of the U.S. Government responsible for the regulations and procedures related to air transportation.

Film - A thin film coating that usually builds up over time and often is so uniform that it goes unnoticed. Air pollution is a major contributor to film formation. Film is found on infrequently cleaned toilet bowls due to foreign or impurities settling out of the tap water. Film is also found on the inside surfaces of exterior glass.

Grime - Foreign matter that clings to or is embedded in a surface. It becomes embedded or built up by repeated touching or handling, such as a door handle or light switch. Careless or incomplete cleaning procedures (particularly during construction activities) may contribute to the development of grime.

Grit - Coarse particulate matter such as sand, fragments of metal, concrete and/or glass, salt and ice melt compounds (before they absorb moisture and liquefy).

Grounds - Includes land, (both unimproved and landscaped) parking lots, roadways, walks, bridges, airfields etc. at the Airport.

Hazardous Materials - Hazardous Materials means any wastes, substances, radiation, or materials (whether solids, liquids or gases) (i) which are hazardous, toxic, infectious, explosive, radioactive, carcinogenic, or mutagenic; (ii) which are or become defined as a "pollutants" "contaminants," "hazardous materials," "hazardous wastes," "hazardous substances," "toxic substance," "radioactive materials," "solid wastes," or other similar designations in, or otherwise subject to regulation under, any Laws; (iii) the presence of which on the premises cause or threatens to cause a nuisance pursuant to applicable statutory or common law upon the premises or to adjacent properties; (iv) without limitation, which contain polychlorinated biphenyls (PCBs), asbestos, lead-based paints, ureaformaldehyde foam insulation, and petroleum or petroleum products (including, without limitation, gasoline, crude oil or any fraction thereof) or (v) which pose a hazard to human health, safety, natural resources, industrial hygiene, or the environment, or an impediment to working conditions.

Hazardous Materials, Contractor's - The Contractor's hazardous materials arising out of the Contractor's past, present or future use or occupancy of the Premise or the Contractor's acts or omissions.

"The Contractor's hazardous materials" includes, but is not limited to any hazardous materials generated, used, stored, released, discharged, treated, disposed of, managed or transported by the Contractor or transported to the premises under an agreement with the Contractor. As used herein, the Contractor includes the Contractor's employees, agents, successors, contractors, subcontractors, or persons acting on behalf of the Contractor.

HCS - Hazard Communication Standard

Holidays - Holidays observed by the Authority

Job Site - The area where the work described in the SOW is to be performed.

Key Personnel - Individual(s) employed by the Contractor, who have the responsibility and authority for fulfilling any of the requirements of this Statement of Work and/or the associated contract with the Authority.

Law or "laws" - include but are not limited to all applicable local, state, federal, or regional statutes, regulations, ordinances, rules, policies, directives, orders, demands, or other laws of whatever nature, as they now exist or may hereinafter be adopted or amended including but not limited to the Comprehensive Environmental Response Compensation and Liability Act, 42 USC. Section 9604, et seq.

Lint - Clinging bits of fiber, hair or thread that cling to surfaces. Lint may include such things as carpet fibers, fuzz from sweaters, cobwebs, and spider webs.

Litter - Litter shall include, but not be limited to, waste paper, branches detached from trees and shrubs, beverage containers, dead birds, and dead animals.

Local Government - Arlington County, Virginia for the Airport job site and Alexandria, Virginia for the Canal Center job site.

MA-126 - DCA, Engineering and Maintenance Department, Maintenance Engineering Division

Metropolitan Washington Airports Authority (the MWAA or the Authority) - The public body responsible for the operation and management of both Washington Dulles International Airport (IAD) and Ronald Reagan Washington National Airport (DCA).

MSDS - Material Safety Data Sheet

OSHA - U.S. Occupational Safety and Health Administration. The Federal government agency responsible for providing the rules and regulations on safety and health requirements in the work place.

Opaque Glass - Glass which is impervious to the passage of light.

Operating Hours, Terminal Building - For the purpose of this Statement of Work the regular operating hours of the Airport Terminal buildings are 6:00 A.M. to 11:00 P.M. EST/EDT, daily (365 days a year) including weekends and holidays.

Quality Assurance - A means by which the Authority confirms that the quantity and quality of services received conform to the contract requirements. These methods/procedures are not intended to aid the Contractor in the performance of the contract requirements and shall not be a substitute for Quality Control by the Contractor.

Quality Control - A method used by the Contractor to assure that the services provided by the Contractor satisfactorily fulfill all the requirements of the Statement of Work.

Services - Includes services performed, workmanship, and material furnished or utilized in the performance of services.

SOW - Statement of Work.

Spots - A non-uniform film or coating that is visible to various degrees depending on the angle of view. It is usually associated either by the use of dirty cleaning equipment or inadequate rinsing of cleaning products from the surfaces on which they are used.

State - The Commonwealth of Virginia

Streaks - A non-uniform film or coating that is visible to various degrees depending on the angle of view. It is usually associated either by the use of dirty cleaning equipment or inadequate rinsing of cleaning products from the surfaces on which they are used.

Supervisor - Supervises individual and/or groups of employees and/or subcontractors.

VOC - Volatile Organic Compounds

Waters - Includes but is not limited to groundwater, surface water or storm water.

Work - The services required to be performed by the Contractor.

III. SCOPE OF WORK

A. PURPOSE

The Contractor shall provide all the manpower, supervision, materials, supplies, chemicals, appliances, tools, and equipment necessary to perform all the services as described herein. These services shall include but not be limited to cleaning the interior and exterior surfaces of glass, glass blocks, and skylights on the envelope of various buildings throughout Ronald Reagan Washington National Airport herein referred to as the "Airport" or "job site", (See **Appendix A, Airport Site Plan**) as well as the exterior surfaces of the painted aluminum curtain wall system on the Terminals B and C including the associated pedestrian connectors leading to the Parking Garages B and C and to Terminal A. These services shall also include the removal of spiders.

B. GENERAL

The Contractor shall clean (see **Appendix B, Performance Standards Cleaning Methods and Quality**) all glass and associated architectural surfaces described herein including transparent and opaque glass at the Airport one (1) time a year in July. In addition the Contractor shall clean at Terminals B and C all surfaces of the painted aluminum curtain wall system in conjunction with the scheduled glass cleaning. The completion of the scheduled cleaning shall not be longer than two (2) months in duration. The Authority shall have the right to increase or decrease the number of cleanings. The Authority shall have the right to increase or decrease the quantity of any or all of the surfaces that are described herein to be cleaned by the Contractor. The Contractor shall perform each cleaning job according to a detailed written job schedule and plan which is prepared by the Contractor and approved by the COTR at least thirty (30) days prior to the critical milestones for each job. These milestones shall include, but not be limited to, the dates the work is to be initiated and completed as well as the amount of work projected to be completed daily. The job plan shall include, but not be limited to, a comprehensive list of the amount of crews, names and amount of people per crew, names of supervisors of said crews as well as a list of back-up crews and equipment. In addition the Contractor shall provide a list of equipment and vehicles to be used on the job site with the corresponding identification numbers. The job plan shall describe how the personnel and equipment will be located and utilized daily during the duration of each job. The job plan shall also identify the hours when the work will be performed by the Contractor.

Except otherwise provided herein, the Contractor shall furnish all the manpower, supervision, materials, supplies, tools and equipment necessary to fulfill all the requirements of this Statement of Work.

The cleaning of glass and painted aluminum panels that are located in high traffic and/or congested areas may require, at the discretion of the Authority, that the Contractor perform such work during the late night (10:30 PM - 6:00 AM) hours. If duration of such congested work extends beyond one work day, the Contractor will temporarily secure the area and remove all debris and equipment until the next work period.

Some glass will be required to be cleaned in secure areas, therefore the Contractor's personnel shall be required to obtain security badges under the Authority's normal security

badge issuance procedures, including payment of a fee of \$50.00 for each badge issued, of which \$40.00 is refundable upon return of the badge. Contractor shall also have all vehicles and operators of vehicles to be used on the airfield side certified by MWAA Operations.

Unless otherwise directed by the COTR, the Contractor may use ladders that utilize rubber floor protectors to perform the cleaning described herein for all buildings except Terminals B and C. With the approval of the COTR, the Contractor may use ladders that utilize rubber floor protectors within Terminals B and C to clean surfaces which accessitate from ladders and are less than eight (8) feet above ground or floor level. The Authority will provide the Contractor for use only in the interior of Terminals B and C lifts as described in **Appendix C**. Training/certification on these lifts shall be performed at no cost to the Authority. The Contractor shall be responsible for providing at no additional cost to the Authority all other lifts which the Contractor requires on the job site to fulfill the requirements of this SOW. The Contractor shall use mobile man lifts to clean the surfaces as described herein on Terminals B and C. All Contractor provided lifts shall be equipped with a yellow beacon light.

Additional lifts provided by the Contractor for use within Terminals B and C must be identical in type, model, and manufacture to the lifts described in **Appendix C**. All other lifts provided on the job site must be approved in writing by the COTR at least 30 days prior to their intended use by the Contractor on the job site. The Contractor must submit documentation that demonstrates to the satisfaction of the COTR that the Contractor's personnel who will operate the lifts have sufficient training and experience to operate this equipment safely. The Contractor shall assure that the use, safe operation and/or servicing of these lifts are in compliance with all applicable requirements including but not limited to ANSI/SIA A.92.5-1992

Standard for Supported Elevating Work Platforms, 1994. In the event of Contractor provided lift failure and/or malfunction, the Contractor shall provide a replacement lift within one (1) working day so as not to delay scheduled completion of task.

The Contractor shall avoid direct pressure on glass and painted aluminum panels. Protect pads shall be used by the Contractor to prevent ladders from marring building surfaces. All ladders will be equipped with rubber "shoes" for the protection of the floors. While on the roof, no equipment is to make direct contact with the Hypalon Roofing Membrane. The Contractor shall provide and utilize for the protection of the roof surface one or more layers of plywood (1/2" minimum thickness). Care must be taken while placing and securing plywood on roof as not to harm the Hypalon Membrane.

The Contractors work including the use of any lifts and ladders shall not impede the operation of the Airport and/or adversely impact Airport users. Contractor shall provide all barricades, warning signs (i.e. "Caution Men Working Above") and other safety and protective gear to isolate or restrict public access to the work site and/or to protect Airport employees and the general public from personal injury due to materials, equipment or operations at the site. All barricades, warning signs, etc. shall be in accordance with Federal and Local codes, but in no case should barricades be lower than four (4) feet in height with supports no farther than eight (8) feet apart.

Contractor shall notify the COTR of all damaged and/or broken glass, faulty gaskets, missing caulk/glazing and damaged framework.

Glass and painted aluminum curtain walls shall be cleaned with a solution that is specifically manufactured for glass and painted aluminum cleaning. Cleaning solutions shall not be harmful to the transparent and opaque glass, painted aluminum curtain wall system components including the frames, weather striping, trim, window and curtain wall gaskets, solar window film, window glazing compounds or any surrounding surfaces.

C. BASE CONTRACT - GLASS

GENERAL

The Contractor shall clean the glass in various buildings throughout the Airport as described below one time per year (July) and as shown on the drawings in **Appendix E "Glass and Painted Aluminum Curtain Wall Elevations"** (except as may otherwise be directed in writing by the COTR). If there is any discrepancy between the text and the drawings in **Appendix E** the drawings shall prevail.

The surface shall be cleaned according to the methods and quality described in **Appendix B**.

1. Terminals B and C

A. Airside (Drawing 1)

All exterior glass windows, frames, and decorative artwork screens shall be cleaned on both the interior and exterior surfaces.

B. Landside (Drawings 2, 3 and 6)

All exterior glass windows, doors, canopies, and architectural features shall be cleaned on both the interior and exterior surfaces with the exception of tenant office space and opaque glass which shall be cleaned on the exterior surface only.

C. North and South Concourse Ends (Drawing 3)

All exterior glass and architectural features shall be cleaned on both the interior and exterior surfaces.

D. North Pier (Drawing 4)

All exterior transparent glass windows, skylights, architectural features and doors shall be cleaned on both the interior and the exterior surfaces with the exception of tenant space and opaque glass which shall be cleaned on the exterior surface only.

E. Center Pier (Drawing 5)

All exterior glass windows, skylights, architectural features and doors shall be cleaned on both the interior and the exterior surfaces with the exception of tenant space and opaque glass which shall be cleaned on the exterior surface only.

F. South Pier (Drawing 7)

All exterior glass windows, skylights, architectural framework and doors shall be cleaned on both the interior and exterior surfaces with the exception of tenant space and opaque glass which shall be cleaned on the exterior surface only.

G. Club Level Interior Elevation (Typical Drawing 8)

All glass and framework in the interior wall of the airline club spaces shall be cleaned only on the side which faces the airline ticket counters.

H. Ticket Level Interior Elevation Glass Above Vestibules (Drawing 9)

All glass located above the vestibules on the ticket level shall be cleaned on both the interior and exterior surfaces.

I. Garages B and C to Metro Pedestrian Bridges (Drawings 10 and 11)

All exterior glass and metal framework shall be cleaned on both the interior and exterior surfaces with the exception of the opaque glass which shall be cleaned on the exterior surface only.

J. Terminals B and C to Metro Pedestrian Bridges (Drawings 12 and 13)

All exterior glass and metal framework shall be cleaned on both the exterior and interior surfaces with the exception of the opaque glass which shall be cleaned on the exterior surface only.

K. Terminals B and C to Terminal A Connector (Drawings 14 and 15)

All exterior glass and metal framework shall be cleaned on both the interior and exterior sides.

L. Security Check Points (Drawing 37)

All glass located at the security check points shall be cleaned on both the interior and exterior surfaces.

M. Secure Corridor (Drawing 38)

All glass and metal framework shall be cleaned on both the interior and exterior sides.

N. Concourse Domes (Drawing 39)

All glass and metal framework shall be cleaned on both the interior and exterior sides.

There is valuable artwork incorporated into the glass structure on both "A" and "C" mentioned above. The artwork is described in **Appendix D**. The Contractor is required to clean, contact or move some of this artwork to fulfill the requirements of this Statement of Work. The Contractor shall be responsible for reimbursement for any damage it causes to this artwork, repairs are only to be performed by the artisan or craftsman that created the artwork.

2. Terminal A

A. Landside (Drawing 16)

All exterior window, door, and skylight glass shall be cleaned as indicated in **Drawing 16**.

B. Airside (Drawing 17)

All exterior window, door, and skylight glass shall be cleaned as indicated in **Drawing 17**.

C. Northwest Terminal (Drawing 19A, 19B, 19C)

All exterior window glass shall be cleaned on both the interior and exterior surfaces, including skylights in the Lobby and exterior vestibule breezeway partition glass adjacent to the exterior baggage check-in. The exterior surface of the glass of the Northwest Club and Continental Club shall also be cleaned.

3. Garages

A. Garage A (Drawing 27)

All exterior glass block shall be cleaned on both the exterior and interior surfaces.

B. Garage B (Drawing 28)

All exterior glass, including glass block, shall be cleaned on both the exterior and interior surfaces.

C. Garage C (Drawing 29)

All exterior glass, including glass block, shall be cleaned on both the exterior and interior surfaces.

D. BASE CONTRACT - PAINTED ALUMINUM CURTAIN WALL SYSTEM**GENERAL**

The Contractor shall clean all surfaces of the painted aluminum curtain wall system at the following locations at Ronald Reagan Washington National Airport one time per year (July) to run concurrently with scheduled Glass Cleaning. The aluminum curtain wall panels are REYNOBOND panels and have factory coil coated skins and a colorweld finish. The exterior aluminum facing is normally color coated with a fluoropolymer coating system utilizing KYNAR resin:

1. Terminals B and CA. Airside (Drawing 1)

All painted aluminum curtain wall surfaces shall be cleaned on the exterior surface.

B. Landside (Drawings 2)

All painted aluminum curtain wall surfaces shall be cleaned on the exterior surface.

C. North and South Ends (Drawing 3)

All painted aluminum curtain wall surfaces shall be cleaned on the exterior surfaces.

D. North Pier (Drawing 4)

All painted aluminum curtain wall surfaces shall be cleaned on the exterior surfaces.

E. Center Pier (Drawing 5)

All painted aluminum curtain wall surfaces shall be cleaned on the exterior surfaces.

F. South Pier (Drawing 7)

All painted aluminum curtain wall exterior surfaces shall be cleaned on the exterior surfaces.

G. Terminals B and C to Metro Pedestrian Bridges (Drawings 12 and 13)

All painted aluminum curtain wall surfaces shall be cleaned on the exterior surfaces.

H. Terminal A to B Connector (Drawings 14 and 15)

All painted aluminum curtain wall surfaces shall be cleaned on the exterior surfaces.

NOTE: All painted aluminum curtain wall surfaces shall be cleaned according to the recommended methods and quality included in **Appendix B**.

E. **SUPPLEMENTAL SERVICES - GLASS**

GENERAL

The Authority may during the course of this contract, request the contractor to perform supplemental window cleaning services which are outside the requirements of the Base Contract. The contractor shall provide all supervision, labor, materials, supplies, chemicals, tools and equipment necessary to perform these services. Below are areas that may be requested to be cleaned. These areas are shown on the drawings in **Appendix E "Glass and Painted Aluminum Curtain Wall Elevations"** (except as may otherwise be directed in writing by the COTR). If there is any discrepancy between the text and the drawings in **Appendix E** the drawings shall prevail.

The surface shall be cleaned according to the methods and quality described in **Appendix B**.

1. Hangar Lines

A. Hangar 2 Landside (Drawing 20)

All exterior window glass on the second floor shall be cleaned on the exterior surface only.

B. Hangar 3 Landside (Drawing 21)

All exterior window glass on the second floor shall be cleaned on the exterior surface only.

C. Hangar 4 Landside (Drawing 22)

All exterior window glass on the second floor shall be cleaned on the exterior surface only.

D. Hangar 5 Landside (Drawing 23)

All exterior window glass on the second floor shall be cleaned on the exterior surface only.

E. Hangar 6 Landside (Drawing 24)

All exterior window glass on the second floor shall be clean on the exterior surface only. All exterior window glass on the second and third floor in PMC office space and entrance doors at Street Level shall be cleaned on both surfaces.

F. Hangar 7 Landside (Drawing 25)

All exterior window glass on the second floor shall be cleaned on the exterior surface only. PMC's office space on the second floor shall be cleaned on both surfaces.

G. Hangar 12 Landside (Drawing 26)

All exterior window glass on the second floor in PMC and Washington Flyer office spaces shall be cleaned on both surfaces. All other window glass on the second floor shall be cleaned on the exterior surface only.

2. Miscellaneous Outlying Buildings and Structures

A. Shops Building (Drawings 30 and 31)

All exterior window and door glass shall be cleaned on both the exterior and interior surfaces.

B. East Building (Drawing 32)

All exterior window and door glass shall be cleaned on both the exterior and interior surfaces.

C. West Building (Drawing 33)

All exterior window and door glass shall be cleaned on both the exterior and interior surfaces.

D. Central Plant (Drawings 34 and 35)

All exterior window and door glass and metal framework shall be cleaned on both the exterior and interior surfaces.

E. Fire Station (Drawings 36)

All exterior glass doors, windows and metal framework shall be cleaned on both the exterior and interior surfaces.

F. COB (Drawing 40)

All exterior glass doors, windows and metal framework shall be cleaned on both the exterior and interior surfaces.

IV. SUPPLEMENTAL SERVICES

The Authority may, during the course of this contract, request the Contractor to perform supplemental window and curtain wall cleaning services which are outside the requirements of the Base Contract. The Contractor shall provide all supervision, labor, materials, supplies, chemicals, tools, and equipment necessary to perform these services. All such work will be requested in advance in writing by the COTR using the "Contract Services Call Order" form (referred herein after as a "Service Order") shown in **Appendix F**. Each Service Order shall contain a detailed description of the work which is required to be performed by the Contractor. The Contractor shall be required to provide to the COTR a detailed estimated itemized cost breakdown for these services as well as a schedule with critical milestones for completing the Service Order. Both the cost breakdown and schedule shall be made a part of the Service Order. The Authority will reimburse the Contractor for equipment rental i.e., exterior lifts and lighting at the actual cost without Contractor mark up. The Contractor shall not proceed with any of the work described in a Service Order until authorized in writing by the COTR. The Contractor shall not invoice the Authority for any work described in a Service Order until after all the work described in the Service Order has been completed to the satisfaction of the COTR.

These supplemental services are to be performed according to the performance standards described in **Appendix B**.

Supplemental services may include, but are not limited to cleaning of exterior glass as well as painted aluminum curtain walls including adjacent surfaces, (i.e. architectural features, piping, vents, trim etc).

The Contractor shall be reimbursed by the Authority for supplemental services in accordance with the provision of **Section XII** of this solicitation entitled "Method of Payment and Deduction" and unit prices specified in the Schedule. These unit prices shall be fully loaded rates which include, as appropriate, fringe benefits, travel, overhead, profit, taxes, etc.

V. STANDARD REQUIREMENTS**A. Security Procedures**

The Contractor shall acquire at its own cost prior to performing any work on the job site all security devices which are required to perform the work described herein.

The Contractor shall secure and safeguard all Airport security access devices (including but not limited to ID badges, security cards, keys, key cards). The Contractor shall not permit any employee to access any locked and/or secured areas on the job sites until it has been determined by the COTR that permitting to such access shall not be contrary to the Authority's interest, and that the individual(s) is authorized to be admitted in accordance with applicable security orders, rules, regulations, and instructions as determined by Authority. The Contractor shall maintain on the job site complete and current written up to date record of all the security access devices which are issued to it by the Authority. This record shall identify all individuals to whom the Contractor issues these devices. The Contractor shall safeguard against duplication of any of these security access door control devices. The Contractor shall distribute these devices to its employees and/or subcontractors at the beginning of each shift and collect them at the end of the same shift. The Contractor shall maintain a log and require the employees to sign for receipt of these doors.

The Contractor shall ensure all its personnel on the job site visibly display at all times both a valid Authority AOA badges and a valid Contractor issued ID.

The Contractor shall immediately report to the Authority all security devices (i.e. badges, keys, key cards and/or any other access devices) issued to it by the Authority which are lost or stolen. The Contractor shall be responsible for all the costs which the Authority incurs as a result of the Contractor's loss of Authority keys. These costs include but are not limited to the expense of changing locks and/or replacing keys.

The Contractor shall ensure that, under no circumstances, any of its employees shall enter an area not authorized for access by the Authority. All breaches of security on the job site by the Contractor shall be immediately reported to the COTR.

In areas which the Authority determines to be sensitive, the Contractor's employees shall be accompanied at all times by the COTR or an individual designated by the COTR.

B. Safety

The Contractor and each of its employees shall comply with all applicable local, state, Federal and Authority rules, regulations and practices.

The Contractor shall also be responsible for all injury to persons or damage to property that occurs as a result of the Contractor's negligence and shall take proper safety and health precautions to protect the work, the workers, the public and the property of others. The Contractor shall be responsible for all materials delivered and work performed until completion and acceptance of the entire work.

Contractor must perform all its activities pursuant to this contract in a safe manner. The Contractor shall assume responsibility on the job site for the actions of all its personnel and subcontractor(s) who are associated with performance on this contract. The Contractor shall take adequate measures to prevent injury to the public or Authority property on the job sites.

The Contractor shall provide and ensure that all its personnel at the work site properly wear all applicable safety devices and apparel including but not limited to Fall Arrest Protection and soft soled steel-toed shoes. These devices and apparel shall be provided at no cost to the Authority.

The Contractor shall develop and provide to the COTR the Contractor's type written Safety Plan. This Plan shall fulfill the requirements of the Authority's Construction Safety Manual. All safety training (including but not limited to lift operation fall protection, training, hazardous communication standards, and spill protection) which is part of the Plan shall comply with OSHA standards. The Plan shall be submitted by the Contractor to the COTR within ten (10) working days prior to the start of the period of this contract.

The Authority shall have the right to inspect all areas for safety violations at its discretion, direct the Contractor to make immediate improvement of necessary conditions and/or procedures, and/or stop the work if other hazards are deemed to exist.

Notwithstanding any provision to the contrary, the Authority shall not be obligated to make an equitable adjustment for any work stoppage that results from safety hazards created by the Contractor.

In the event that the Authority should elect to stop work because of any type of existing safety hazards on the job site after the Contractor has been notified and provided ample time to correct, the Contractor shall bear all costs for eliminating the hazard(s) and shall not be granted compensation for the work stoppage. Any and all additional expenses shall be paid by the Contractor.

The operation of the Contractor's vehicles or private vehicles by the Contractor's employees on or about the property shall conform to regulations and safe driving practices.

It shall be the responsibility of the Contractor to immediately notify the COTR if the job site is visited by an official authorized to enforce any regulatory requirement including but not limited to the Occupational Safety and Health Act.

The Contractor shall provide and use adequate barricades and signs to provide sufficient notice of potential safety hazards prior to, during, and after the performance of the services.

The Contractor shall inspect all powered equipment daily before operations for signs of wear as well as potential safety hazards. The Contractor shall immediately remove from service on the job sites all equipment including extension cords which are potentially unsafe, damaged, inoperable and/or do not meet the manufacturers operational specifications.

The Contractor shall never leave power equipment unattended without disconnecting them from their power source.

All electrical cords shall be properly sized for the job and placed away from vehicular or pedestrian traffic. All connections between the extension cords and relayed equipment (e.g., tools, machine, or additional extension cords) shall be tightly fastened with no exposed electrical contacts. All extension cords shall have, and use, a proper electrical grounding pipe. Power tools and/or extension cords used in damp areas shall be plugged into a Ground Fault Circuit Interrupter (GFCI) switches to immediately shutdown when a short to ground is detected.

C. Fire Prevention

The Contractor shall be responsible for establishing and maintaining an effective fire prevention program on the job site. This program shall effectively protect the Contractor employees as well as the property being serviced and the people who occupy and/or use this property.

The Contractor shall be knowledgeable and train all its employees on the procedures and means of egress as well as the methods of reporting fires on the job sites.

D. Smoke Free Environment

The Authority's facilities are smoke free. The Contractor and its employees shall adhere to all applicable rules and regulations regarding maintenance of a smoke free environment on the job sites.

E. Permits, Royalties and Licenses

The Contractor shall, without additional expense to the Authority, be responsible for obtaining all licenses and permits which are necessary to fulfill the requirements of the Statement of Work.

The Contractor shall also obtain and pay the costs of any royalties and licenses for any patented or copyrighted items used in the performance of work.

F. Delivery of Supplies and Equipment

The Contractor shall (as directed by the COTR) schedule its supply and equipment deliveries and the supply and equipment deliveries of its vendors and subcontractors during times and locations that cause minimum disruption and inconvenience to the Authority's operations. Unless otherwise directed by the COTR, all such deliveries shall be made at the job site only during the hours of 11:00 P.M. and 6:00 A.M. EST/DST daily.

All deliveries by or to the Contractor at the Airport job site shall only be made to either the loading dock(s) associated with each building or locations approved in writing by the COTR.

G Communication

The Contractor shall at its own expense provide fully operational transportable cellular telephones and two-way radio to all its supervisors at all times that they are on the job site to fulfill the requirements of this contract and key personnel for this Statement of Work at any time the Contractor is performing work on the job site in fulfillment of the requirements of this Statement of Work. The two-way radio shall be of type and frequency which shall not interfere in with any other electronic and telecom group on the job site. The Contractor shall provide the assigned telephone numbers for this equipment to the COTR at least fourteen (14) working days prior to the start of the period of this contract. The Contractor shall notify the COTR of any changes in these assignments.

H. Nonwaiver

Failure of the COTR and/or other Authority personnel to discover or to reject services which are unacceptable and not in accordance with the Contract shall not be deemed an acceptance thereof nor a waiver of the Authority's right to proper execution of the Contract or any part of it by the Contractor.

I. Disturbing and/or Relocating Papers and Equipment

The Contractor's employees shall not disturb any items (i.e. furniture, documents, materials, supplies, equipment, etc.) that are in any area of the job sites unless either directed otherwise by the COTR or the items are the property of either the Contractor or the Contractor's personnel. In situations where items are located in the general area of proposed work, such items shall be temporarily relocated by the Contractor, at no additional cost to the Authority, until such time as the proposed work is completed. The Contractor shall assure that all items to be relocated are returned to their original locations without damage to them or to the surrounding surfaces.

J. Timely Performance

The Contractor shall adhere to and fulfill all the time and frequency requirements described herein.

K. Accident Reports

The Contractor shall immediately notify in turn the Authority's Police Department and the COTR both verbally and in writing of any accident on the job site which is related to the performance of this SOW that involve bodily injury or damage to property. The COTR shall provide information necessary concerning whom to contact and the specific form of the follow-up written notice.

Any damages caused by the Contractor or its employees to the Authority's property shall be promptly repaired or replaced by the Contractor, to the satisfaction of the COTR, at the Contractor's expense.

L. Performing Other Work at the Job Site

The Contractor shall immediately advise the COTR when the Contractor is scheduled to perform any work on the job site which is outside of the work described in this Statement of Work. The Contractor shall advise the COTR of the scope, location and period of performance of this work as well as who requested and/or contacted them to perform it and the entity for whom it is being performed.

M. Bar Code Inspection System

It is intended that the Authority will retain an oversight role in the management of the Bar Code Inspection System. The Contractor, acting as the Authority's agent, will bear the responsibility and the obligation for direct involvement with the maintenance of the equipment, and accomplishing the inspection program. It is the Authority's intent that all information entered on this program is the sole property of the Authority and shall be forwarded over to the Authority at the completion of the contract. Contractor shall comply with the following procedures in the management of the Bar Code Inspection System.

1. Contractor shall provide, maintain and update an automated Bar Code informational database, compatible with Windows operating system. The computer software that shall be used to maintain this data must be Microsoft Access/Word/Excel compatible and approved by Airport within fifteen (15) days of the award of this contract.
2. The Database shall include, as a minimum all window and curtain wall elevations which are defined in Appendix E. The contractor at a minimum shall install a bar approximately every 50 linear feet of windows located half way of the window span. The Contractor may suggest additional areas to be included and submit it to the Contacting Officer's Technical Representative (COTR) for approval prior to adding it to the database.
3. The Authority shall provide the Contractor with additional or updated information to be added in the database, such as new locations/areas, dates of projected renovations or other related items.
4. The Contractor shall provide the Authority with an updated copy of the database in printed form and computer storage media form (CD) Access/Word/Excel compatible after the scheduled cleaning. Each day during the cleaning process of the windows and curtain walls the contractor shall submit to the COTR a written (print out) copy (down loaded the contractor bar code scanners) to demonstrate and document the daily progress of cleaning the window and curtain walls.
5. The Contractor shall print out and review the tours of the previous day, make any comments concerning corrections, implement the changes corrections and forward the daily Bar Code report to the COTR for review. Once the COTR reviews and comments on the daily report, the COTR will return it to the Contractor to correct deficiencies and file the report.

6. The database/bar code report shall include, as a minimum:
 - Date
 - Personnel who performed the inspection (i.e. Person Name)
 - Time inspecting each area
 - Description of each location/area inspected (i.e. Terminal B Center Pier AOA Outside)
7. Should for any reason the bar code system or any parts thereof become nonfunctional, the contractor shall make verbal reports on progress to the COTR each morning. The COTR, at his discretion, may also request a walk through

N. Artwork

Valuable artwork has been installed at Terminals B and C. A portion of this artwork has been incorporated into the transparent and metal curtain wall and the floors of the building. The Contractor shall exercise extreme care and not cause any damage to this artwork. The Contractor shall be liable for all damage it may cause to this artwork. Restoration of the artwork must be performed by the artist and/or artisan who created and/or constructed each piece of artwork. A brief description of each piece of artwork with its respective location is given in **Appendix D**. The artwork that the Contractor shall be responsible for cleaning is the Glass Frieze located on the airfield side glass of Terminals B and C. The Contractor shall also be responsible for cleaning the transparent glass located behind the South Wall Trellis artwork.

VI. SPECIAL REQUIREMENTS

A. REGULATORY AND ENVIRONMENTAL PROVISIONS

1. General

The Contractor (including its on the job site employees and subcontractors) shall comply with all applicable Federal, state, local, and Authority regulatory, code and procedural requirements.

The Contractor shall provide the COTR with Material Safety Data Sheets (MSDS) for all materials used and/or stored on the job site by the Contractor.

All regulatory infractions which are incurred by the Contractor while fulfilling the requirements of this Statement of Work shall be immediately reported by the Contractor to the Authority and/or appropriate regulatory agencies.

2. Asbestos Containing Materials/Lead Based Paint

Most facilities at the Airport, except for current CDP construction, were constructed prior to 1981. Facilities constructed prior to 1981 should be presumed to have both asbestos containing materials (ACM) and paint containing lead in their construction.

Therefore, prior to undertaking any activities which could disturb these materials the Contractor shall obtain written approval from the Authority through the COTR prior to proceeding with such activities.

3. Air Quality

The Contractor shall use on the job site only chemicals and products which are effective to fulfill the requirements described herein, have the least adverse impact on the environment, do not exceed the volatile organic chemical (VOC) limitations rule(s) published by the U.S. Environmental Protection Agency (EPA), and comply with all applicable regulatory requirements.

4. Hazardous Materials

a. Compliance with Laws

The Contractor shall comply with all laws relating to hazardous materials on the job sites or related to the Contractor's activities at the job sites. The Contractor shall not manage, use or store hazardous materials at the job sites except as reasonably necessary to accomplish the Statement of Work. The Contractor shall not dispose or treat of any hazardous materials on the job sites or surrounding lands or waters. The Contractor shall immediately provide to the COTR a written list of hazardous materials which are used or stored, or intended to be used or stored, at the job site, and the approximate quantities to be used or stored, prior to entering into the Contract.

b. The Contractor's Responsibility for Environmental Costs and Damages

The Contractor's hazardous materials shall be the sole responsibility of the Contractor and the Contractor shall be solely liable for and responsible for, without limitation, at the Contractor's sole cost and expense:

- (1) Corrective Action of the Contractor's hazardous materials as directed by any governmental agency, as required by any law, or as necessary to prevent or eliminate any nuisance, trespass, waste or diminution in the value of the job sites or as necessary to avoid any impairment of the Authority's ability to use the job sites for Airport purposes upon expiration or termination of this Contract;
- (2) Damages for injury or death to persons, or injury to property, the job sites and surrounding lands and waters arising out of the Contractor's hazardous materials;
- (3) Claims resulting therefrom;
- (4) Fines, costs, fees, assessments, taxes, penalties, demands, orders, directives or any other requirements imposed in any manner by any governmental agency asserting jurisdiction, or under any law with respect to the Contractor's hazardous materials;
- (5) Costs and expenditures for Corrective Action required as to the Contractor's hazardous materials;
- (6) Damages, costs and expenditures for injury to natural resources resulting from the Contractor's hazardous materials as required by applicable law;
- (7) Compliance with laws regarding the generation, use, storage, transportation, treatment, management or disposal of the Contractor's hazardous materials; and,
- (8) Any other liability related to the Contractor's hazardous materials. While the Authority is not required to incur any costs, fees (including attorney, consultant and expert witness fees) or expenses for environmental compliance, or Corrective Action relating to the Contractor's hazardous materials, should the Authority incur any such costs, expenses or fees due to the Contractor's non-performance of its obligations under this Contract, the Contractor shall within 30 days of demand reimburse the Authority for said costs, expenses or fees.

c. Contractor's Hazardous Materials Indemnification of the Authority

In addition to any other indemnities in this Contract, the Contractor shall defend, indemnify, release and hold harmless the Authority, its officers, agents and

employees, successors and assigns from any and all responsibilities, damages, claims, penalties, orders, decrees, fines, liabilities, costs, expenditures, attorney's fees, litigation expenses and court costs relating to the Contractor's hazardous materials liabilities and responsibilities.

d. Scope of Responsibilities

The job sites, conditions, covenants, and indemnities by the Contractor in this provision shall apply without limitation to the Contractor's successors, assigns, assignees, and guarantors of the Contract. Further, with respect to each of the promises, conditions, covenants and indemnities in this section, the Contractor assumes responsibility to the Authority for the acts or omissions of the Contractor's employees, agents, assignees, successors, shareholders, subsidiaries, contractors or subcontractors (whether or not such acts or omissions are negligent, intentional, willful or unlawful) in any way relating to the Contractor's hazardous materials, or environmental compliance with respect to the Contractor's hazardous materials. Each of the promises and indemnities in this provision apply to any discharges of hazardous materials at the job sites (or emanating from the job sites) by the Contractor, and to any assessment, testing, investigation, remediation and/or cleanup with respect to the Contractor's hazardous materials, whether occurring before or after the Contractor vacates the job sites. The promises and indemnities by the Contractor are continuing and survive termination of the Contract.

e. Testing and Assessment by Authority

At the Authority's sole discretion, during reasonable business hours, the Authority or its representatives or consultants, may enter upon the job sites and make any tests, measurements, investigations or assessment the Authority deems necessary in order to determine the presence of hazardous materials or to evaluate contractor's compliance with this agreement. Nothing herein requires the Authority to conduct any such testing, measurement, investigation or assessment. The Authority shall give the Contractor a minimum of five (5) days written notice prior to conducting any such tests, investigations or assessment except no such notice is required under urgent or emergency conditions. If any of the Contractor's hazardous materials are detected requiring Corrective Action other than monitoring under this provision, or if any material violation of any law or the requirements of this provision are found by the consultant, the fees and expenses of said consultant shall be paid by the Contractor on demand by the Authority. This is in addition to the Contractor's obligation to conduct all required Corrective Action of any of the Contractor's hazardous material releases or suspected releases at the Contractor's sole cost as provided herein.

f. Other

All hazardous and/or carcinogenic materials transported or generated on to either job site by the Contractor must be properly disposed off the Airport site by the

Contractor in accordance with applicable Federal, state and local laws and regulations and at no cost to the Authority.

The Contractor shall immediately provide the COTR with complete, legible copies of all regulatory notices, violations notices, citations, etc. received by the Contractor which pertain directly or indirectly to its fulfillment of this Statement of Work.

The Contractor shall provide the COTR with documentation on hazardous materials or wastes that are accumulated, handled, generated, or disposed of by the Contractor's operations. The documentation shall demonstrate the adequacy of the handling and disposal operations used by the Contractor and will demonstrate that the Contractor's activities will not result in contamination of Airport property. This documentation shall be provided upon request during periodic environmental inspections of the Contractor's premises by the Authority. The Contractor shall immediately provide copies of all such correspondence to the COTR on all correspondence with regulatory agencies concerning the Contractor's compliance with environmental regulations.

If the Contractor generates hazardous waste in an amount that makes it subject to State and Federal hazardous waste requirements, the Contractor shall apply for a Hazardous Waste Generator Identification Number. Hazardous waste shall be transported off the Airport using the Contractor's Hazardous Waste Generator Identification Number documented on a complete and properly signed Uniform Hazardous Waste Manifest. The Contractor shall be required to submit an Annual Hazardous Waste Report to the State of Virginia Department of Environmental Quality. The Contractor shall be responsible for developing a Resource and Conservation Act Contingency (RCRA) Plan if the amount of hazardous waste generated places it into a category that requires a plan.

The Contractor shall be responsible for notification and reporting required under SARA, Title III regulations.

5. Spill Contingency Plan

Neither domestic drains, nor storm drains on the job sites shall be used to dispose of gasoline, paint, thinners, hydraulic fluid, solvents, concentrated cleaning agents or other hazardous material.

The Contractor shall develop and implement on the job sites (for the entire period of performance of this Statement of Work) a written Hazardous Waste Spill Control and Containment Plan listing materials used, spill prevention procedures, containment equipment and procedures to be used in the event of spill, personnel protective equipment requirements, notification procedures, site redemption procedures, and personnel training procedures in accordance with regulations. The Contractor shall provide the COTR a copy of this plan at least ten (10) working days prior to the start of the start period of performance of this Statement of Work.

In the event of a spill, the Contractor shall immediately notify the Airport Fire Department. The Contractor shall be responsible for all cleanup, site remediation and disposal costs including hazardous waste response teams that may be required at the site. All procedures shall be in accordance with applicable Federal, state and local environmental and OSHA regulations. Hazardous materials that are temporary, stored on site during normal working hours, shall be placed in containment devices that are capable of containing 110 percent of the volume of the substance in the event of a spill.

The Contractor shall initiate a training program for its employees and subcontractors on the proper disposal of hazardous materials such as gasoline, paint thinners, hydraulic fluid, solvents, etc.

Materials that are stored in an area that is near sanitary drains shall be protected by means of dikes, containment boxes, or other means to prevent a slug load of material from entering the drains. The Contractor's Spill Control and Containment Plan (SCCP) that shall at a minimum include the following components:

- a. A description of discharge practices, including non-routine batch discharges.
- b. A list, description, and location of stored chemicals near sanitary drains that could cause an impact on the treatment plant if a release were to enter the sanitary drains. This material is not limited to petroleum or hazardous products, but also includes any material that may have an impact on the Arlington County Sewage Treatment Plant, such as soaps, dyes, detergents, deodorizers, solvents, etc.
- c. A list of spill kits, location of kits and materials contained in the kits that could be used to contain a spill to prevent the spilled material from entering a drain or drain inlet. Protection devices shall be included in the spill kits.
- d. Procedures to be followed to prevent an accidental or slug discharge. Such procedures shall include, but not be limited to inspection and maintenance of storage areas, handling of materials, loading and unloading of materials, and containment procedures to be followed in the event of a spill.
- e. Training procedures for employees to ensure they are aware of the procedures to be followed in the event of a spill that could enter a sanitary drain and the notification procedures to be followed in the event a slug load does enter the sanitary drainage system.
- f. Instructions to employees on how to obtain a copy of the Airport Industrial User Wastewater Permit.
- g. Posting in an conspicuous areas, the spill notification flow chart currently used by the Authority. This flow chart provides a list of people or groups to be notified in case of a spill on the Airport. This notice shall include but not be limited to advising employees to call the Airport's Work Order Desk and the Arlington

County Water Pollution Control Division in case of a discharge into the sanitary drains in violation of the Airport Permit or the Arlington County Sewage Ordinance. Notice must include but not be limited to including the telephone number of the Arlington County Water Pollution Control Division (Process Control Engineer or the Shift Supervisor as alternate). If a discharge event is reported, the report shall include the following information:

- (1) Caller Name
- (2) Facility and Tenant Name
- (3) Name and Type of Material Discharged
- (4) Time and Duration of Release
- (5) Amount of Material Released
- (6) Possible Effect on Health, Equipment or the Environment
- (7) Corrective Action Taken
- (8) Name of Individual to Call if More Information is Needed

B. QUALITY CONTROL

The Contractor shall implement an effective quality control program. This program shall insure the Contractor fulfills all the requirements of this Statement of Work. This program shall include but not be limited to including all elements of the quality control program described in the Technical Proposal which the Contractor submitted in response to the Authority's solicitation for this contract.

The Contractor shall provide on the job site no less than the level of quality described in this Specification.

C. FIXED IMPROVEMENTS AND OPERATING FACILITIES

- (a) During the period of performance of the Statement of Work, title to the Fixed Improvements made by the Contractor on the job sites shall remain with the Contractor. "Fixed Improvements" includes any improvements, fixtures, additions, annexations or alterations to the job sites or a portion thereof which cannot be removed or changed without material damage to, or destruction of, either itself or the job sites or a portion thereof. All Fixed Improvements on the job sites require the prior written approval of the Authority.
- (b) The Contractor shall have no right during the Operating Period of the Contract to demolish or remove, in whole or in part, any Fixed Improvements on the job sites except with the prior written consent of the Authority, which may, at the discretion of the Authority, be conditioned on the obligation of the Contractor to replace the same by a building structure or improvement acceptable to the Authority. At the expiration of the Contract, all Fixed Improvements, shall be left in place and title to them shall transfer to the Authority unless otherwise acquired to in writing by both the Contractor and the Authority.

D. CONTRACTOR'S LIFT INDEMNIFICATION OF THE AUTHORITY

In addition to and as supplement to other provisions in the Authority's contract the Contractor agrees to defend, to save and keep harmless, and indemnify, the Authority, its offerors, agents, employees, and directors against liability and other claims including the costs of whatsoever kind and nature, such as by way of example and not limitation, damages, attorney's fees, litigation expenses and court costs, arising or alleged to arise for injury, including personal injury to or death of any person or persons, and for loss or damage to any property occurring in connection with or in any way incident or arising out of the design, training suitability, maintenance, use, service, rental, and operation of equipment furnished by the Contractor and/or Authority as stated in the SOW of this contract. The Authority agrees to allow the Contractor to inspect rented equipment prior to use but the Authority cannot and does not warrant the equipment's condition or suitability for use.

VII. PERSONNEL**A. ATTIRE**

All the Contractor's personnel, while performing work under this contract shall at all times be attired in a neat clean distinctive uniform which is acceptable to the Authority. The uniform shall prominently display the Contractor's name in a permanent or semi-permanent manner such as a badge or monogram. Any color combination, as appropriate, may be used for the uniforms as long as they are distinct from the uniforms used by Authority employees. Employee uniforms must be supplied and maintained by the Contractor at no cost to the Authority. As part of their uniform, the Contractor's personnel shall conspicuously display on the front of the portion of the uniform at chest height an Airport photo identification security badge and card key issued by the Airport Operations Division, color coded numerical work assignment area badges issued by the COTR and photo identification badge issued by the employee's respective employer.

B. SUPERVISION AND MANPOWER

The Contractor shall provide fully trained and qualified Supervisors who are members of IWCA or similar organizations in sufficient numbers as required to fulfill all the requirements of this Statement of Work.

Each of these Supervisors shall be able to clearly and understandably communicate (both verbally and in writing) in the English language with the Authority. These Supervisors shall also be able to communicate verbally and in writing with all of the Contractor's employees and subcontractors as required to fulfill all the requirements of this Statement of Work.

The Contractor shall provide all the manpower, materials, supplies and equipment necessary for the Contractor to fulfill all the requirements of the Statement of Work.

The Contractor shall only provide fully trained and qualified personnel on the job sites to fill the requirements of this Statement of Work and the terms of the contract document.

At all times while on the job site to fulfill the requirements of this Statement of Work (whether on or off duty), the Contractor's employees shall conduct themselves in an orderly and safe manner.

While on the job site, the employees shall not fight, engage in horseplay, be under the influence of alcohol and/or drugs, or bring or consume alcohol and/or drugs, gamble, solicit, steal or commit any other crimes. The Contractor shall immediately and permanently remove from the job site any employee engaging in acts that violate this section of the Statement of Work or which the Authority determines to be unsatisfactory.

C. AREA ASSIGNMENTS

The Contractor shall assign its personnel to specific areas of the job site to accomplish the work described herein. The Contractor shall provide this information to the COTR at least ten (10) work days prior to implementation of the work. The Contractor shall immediately notify the

COTR of any changes regarding this information. While on the job site to fulfill the requirements of this Statement of Work, all of the Contractor's personnel shall be in their assigned work area properly equipped to perform the work described herein. All the Contractor's personnel who are found outside their assigned work area without justifiable cause shall be immediately and permanently removed by the Contractor from the job site. The Contractor's personnel shall not eat or take breaks within their assigned work areas.

D. PROJECT ASSIGNMENTS

At all times while work is being performed on the job site pursuant to this contract, the Contractor shall provide a Project Manager on the job site. The Project Manager shall have full authority to act for the Contractor and serve at all times to carry out all the provisions of the Contract. At all times when the Project Manager is away from the site another individual shall be designated by the Contractor to act in the Project Manager's capacity with equal authority to act for the Contractor on all matters related to this Statement of Work. Both the Project Manager and the alternate designee shall be acceptable to the Authority. In addition, these individuals shall be literate in both writing and speaking the English language.

The Project Manager and the designee, shall be on-call at all times during performance of the work. The Project Manager shall meet as promptly as possible with the COTR at the COTR's request to discuss performance of the work or other provisions of the Contract.

The Project Manager and the designee, shall be on-call at all times for emergencies (related to the work described herein) and must be able to report within one (1) hour to any of the job sites covered by this Contract.

The Project Manager shall be trained in the requirements of all applicable OSHA, EPA, and other Federal, state and local laws and regulations regarding the equipment and materials that will be encountered in the performance of the work.

E. AWARENESS ON THE JOB SITE

The Contractor's on-site supervisors and employees are expected to quickly become familiar with their designated areas. In addition, they shall be expected to notify, document and immediately report anything which is amiss or suspicious to the COTR.

The Contractor's employees are to inform their respective supervisors on the job site of any unusual happening or physical problems such as burned-out lights, broken locks, or open windows. These reports are to be made in writing to their respective supervisors and transmitted through the Contractor's chain of command to the COTR prior to the start of the next regular workday for the Authority. These reports shall be referred to as Security Intrusion Exception Reports. In addition all observations of breaches in Airport security requirements as well as suspicious persons, packages, situations, etc. must immediately be reported verbally to the Airport Operations Division (MA-110), and in turn to the COTR in writing.

The Contractor shall encourage employees on the job-site to look out for each other, the Authority's property and Airport users. The Contractor must implement, at the start of the contract, procedures to keep its personnel safe. The Contractor shall ensure they are never

alone in an isolated, exposed place. The Contractor shall make documented, unscheduled visible stops at work sites to discourage any would-be perpetrators.

F. SEMINAR ATTENDANCE

At the invitation of the Authority's Airport Manager, Contracting Officer, or COTR, the Contractor's Contract Manager and supervisors on the job sites shall attend training work shops and/or seminars which are presented by the Authority. These seminars may include the Authority's annual Multi-Media Environmental Awareness Convention Seminar. These seminars will be offered to the Contractor at no charge.

VIII. DELIVERABLES

A. CONTRACT AWARD

No less than fourteen (14) working days after contract award the Contractor (unless otherwise directed in writing by the COTR) shall submit to the COTR:

1. A list of the names of all the Contractor's employees as well as subcontractors and their employees who will fulfill any part of the requirements of this specification both on an/or off the job sites. This list shall include the social security or Federal ID number, function/job title, their duties, responsibilities and authority, minimum qualifications of the position, job-site location, and assigned work areas for each employee.
2. Documentation that the Contractor has acquired all required Airport Security Clearances for all the Contractor's employees who are fulfilling any of the requirements of the Statement of Work at the Airport job site. This documentation shall include but not be limited to legible photo copies of all pass/ID's issued by the Airport to the Contractor's employees.
3. A detailed chart showing the organization and all personnel the Contractor proposes to use both on and off the job site to fulfill the requirements of this specification.
4. A detailed written itemized equipment inventory showing the manufacturers type, model, age, serial number, on-site inventory control number and color code, and storage location of all equipment the Contractor will use on the job site to fulfill the requirement of this Statement of Work.
5. A detailed written itemized inventory of all materials and supplies which the Contractor will use on the job site. This inventory shall identify the manufacture, type, quantity and storage location on the job site for each item.
6. The names of all the Contractor's supervisors who will be on the job site together with the telephone numbers of the message pagers and cellular phone(s) they will be provided by the Contractor and which they will use to fulfill the requirements of this Statement of work.
7. Resume(s) with the experience and qualifications for all the Contractor's key personnel who are responsible both on and off the job site for fulfilling the requirements of the Statement of Work.
8. The identity of the Contractor's lift operators with documentation which demonstrates to the satisfaction of the COTR and the Authority's Equipment Maintenance Branch at the Airport that these individuals have received training to safely operate all lifts the Contractor proposes to use on the job site including the Authority owned high man lifts (including, but not limited to, the high elevation DENKA lifts) stored at Terminals B and C.

9. Documentation showing the Contractor has all the supplies, chemicals, materials, tools and equipment necessary to fulfill the requirements of this Statement of Work.
10. The Contractor's written Safety Plan.
11. Alphabetical lists and copies of Material Safety Data Sheets (MSDS) for all chemical products the Contractor will use on the job site. This information should be contained in a loose-leaf binder in alphabetical order according to the common name of the chemical. The alphabetical lists shall be by (1) the common chemical and (2) trade name for each MSDS.
12. Documentation that the Contractor has satisfied all insurance coverage as required by the Airport.
13. The Contractor's written program which the Contractor has established and implemented to ensure the Contractor will meet or exceed all currently applicable regulatory requirements.
14. The Contractor's written Hazardous Waste Spill Contingency Plan.
15. The Contractor's operational plan which has been approved by the COTR and which describes in detail the Contractor's daily schedule for implementing all the tasks and frequencies described in the SOW for the entire period for which this contract is awarded.
16. A detailed written fire prevention program which the Contractor will implement on the job site.

B. PRIOR TO START OF WORK

Prior to the start of work (job) the Contractor shall provide to the COTR the following deliverables:

1. Month Prior to Start of Work (job) Proposed schedule of personnel for specific tasks; how many crews, crew assignment, supervisors responsibility, verification that the Contractor provides necessary badging and vehicular inspection in compliance with applicable Authority codes.
2. Week Prior to Start of Work (job) Contractor shall perform a site visit with the COTR to check proper operation of lifts. Each work week or portion thereof that Contractor is on the job site.

The Contractor shall provide documentation of the occurrence and attendance by all employees and subcontractors to safety meetings which are to be held on the job site by the Contractor.

3. Daily Work Schedule including list of personnel, crews, supervisors, equipment and proposed tasks to be completed.

Contractor shall provide a list of cell phone and pager numbers of key personnel on the job site.

The Contractor shall provide to the COTR a list of current and valid lift operators training permits.

C. AFTER START OF WORK

After the start of work and/or the completion of work, the Contractor shall provide to the COTR the following deliverables:

1. Weekly - The Contractor's Supervisor shall accompany the COTR on a weekly inspection of the glass and painted aluminum curtain wall system that has been cleaned during the past week. All glass that is deemed unacceptable by the COTR shall be recleaned at no cost to the Authority.
2. Daily - At completion of days work, Contractor shall write a report detailing what was accomplished, what was not completed and why and if any unforeseen incidents occurred.

IX. CONTRACTOR FURNISHED RESOURCES

Except as otherwise provided in this Statement of Work, the Contractor shall furnish all resources (i.e. supervision, labor, materials, supplies, chemicals, tools, and equipment including, but not limited to, lifts, lighting, barricades, signage, and fixed improvements on the job site) that are necessary to fulfill all the requirements described in this Statement of Work in a safe, orderly, timely, efficient, satisfactory and workmanlike manner in Terminals A, B, and C and the rest of the Airport. The Contractor shall utilize Authority lifts to fulfill the glass cleaning requirement in the interior of Terminals B and C. In the event that the Contractor deemed it necessary to supplement Authority - provided lift equipment with Contractor - provided lift equipment to accomplish the requirement of the Statement of Work in a more timely fashion, the Contractor shall assure that only identical equipment are used at no additional cost to the Authority. All Authority-provided lift equipment are listed in **Appendix C**. Contractor supplied lifts shall be accessed to Terminals B and C from either the Metro Plaza South Automatic Entrance Door Operator or the Ticket Counter Vestibule 1 and 6 Automatic Entrance Door Operators.

The Contractor may request that the COTR approve other materials, supplies, chemicals, tools, and/or equipment other than those described in this Statement of Work provided these submittals are in written form. Contractor shall provide documentation which demonstrates to the satisfaction of the COTR that the salient features of the proposed substitutions are equal or better than those described in this Statement of Work.

The Contractor may store materials, supplies, tools, chemicals and/or equipment on the job site (while fulfilling the requirements of this contract) only to the extent such storage is approved in writing by the COTR. Lifts and lighting access cones shall be stored at locations approved by the COTR. Unless otherwise approved by the COTR the Contractor shall remove all materials, supplies, chemicals, tools and equipment for the job site at the completion of each days work.

X. AUTHORITY FURNISHED RESOURCES

A. Unless otherwise indicated, the Authority will furnish the following resources to the Contractor at no cost to and for use by the Contractor on the job site only to fulfill the requirements of this Statement of Work:

1. Use within Terminals B and C interior of the Authority's mobile battery powered platforms and man lifts located in Terminal buildings as described in **Appendix B**. The Contractor is required to furnish all additional lifts on the job site which are required to fulfill the requirements of this Statement of Work.
2. Electric power on the job site will be furnished through existing outlets at both job sites as necessary for the Contractor's effective performance of the contract work.
3. Cold water on the job site will be provided from existing outlets located on the roof and building fronts at the job sites. No new supply locations or special temperature sources of hot or cold water will be provided. Hot water needs are to be coordinated with the COTR for access into the Janitor Closets.
4. Electric relamping, as well as maintenance and repair of on-site space provided to the Contractor.
5. Parking permits for the Contractor's employees may be purchased at the prevailing cost and if parking permits are available from the Authority. Otherwise the Contractor is responsible to satisfy its parking requirements at its own expense.

The Contractor shall protect from damage all property furnished to it by the Authority. The Contractor shall immediately report to the COTR any damage to this property (including utility outlets) resulting from its failure to exercise reasonable care in performing work. In addition, the Contractor shall use all reasonable care to conserve the utilities provided.

XI. METHOD FOR PAYMENT AND DEDUCTIONS**A. General**

The Contractor shall only submit invoices to the Authority for work that has been completed in accordance with this Statement of Work to the satisfaction of the COTR. If the Contractor completes more than one job in a given month, the Authority requires that the Contractor combines all the jobs together in order to submit a single lump sum invoice for the month. All invoices are to include a detailed breakdown of costs in accordance with the Schedule. All payments to the Contractor by the Authority shall be made in accordance with the Schedule.

B. Base Contract

The Contractor shall invoice the Authority for the services described herein at the end of each job in accordance with the project and building costs shown in the Schedule. The Cost of the Base Contract shall only change to the extent that work is either added or deleted to this Statement of Work.

C. Supplemental Services

The Authority will reimburse the Contractor for supplemental services described in writing in a Contract Services Task Order which has been approved in writing by the COTR. The Contractor shall be reimbursed for these services in accordance with the unit prices described in the Schedule.

The Contractor will be reimbursed at 110 percent of the actual costs (less taxes) expended by the Contractor to acquire these materials and/or equipment. Contractor shall take competitive bids with the award to generally lowest priced bid with consideration given to responsiveness. Provide the COTR with results along with justification. All Supplemental Services must be completed in accordance with all the requirements of the respective Contract Services Task Order form that is completed and approved by the COTR prior to the Contractor initiating the work or incurring any expenses which the Contractor intends to recover from the Authority. Supplemental Services costs shall be invoiced to the Authority in full during the calendar month immediately after the Contract Services Task Order is completed in its entirety by the Contractor to the satisfaction of the Authority. Original invoices must be submitted to the Authority with the Contractor's invoice for any costs the Contractor is seeking reimbursement from the Authority pursuant to this Statement of Work. Unless otherwise approved in writing by the COTR, the Contractor shall not invoice the Authority for Supplemental Task Services for an amount greater than the estimated cost shown in the respective Contract Services Task Order approved by the COTR.

D. Deficient Performance**1. General**

In the event of deficient services by the Contractor, including those subcontracted, the Contracting Officer shall have the right to exercise one of the following options:

- a. The Contractor shall immediately correct such deficient item of work upon notification by the Authority.
- b. The Authority shall correct the deficiency by using another Contractor, or by any means it deems necessary and reasonable. Direct labor and materials costs incurred by the Authority for the correction of the item of nonperformance, plus a ten (10) percent overhead amount shall be deducted from payments made to the Contractor by the Authority..

2. Deficiencies - Typical Examples

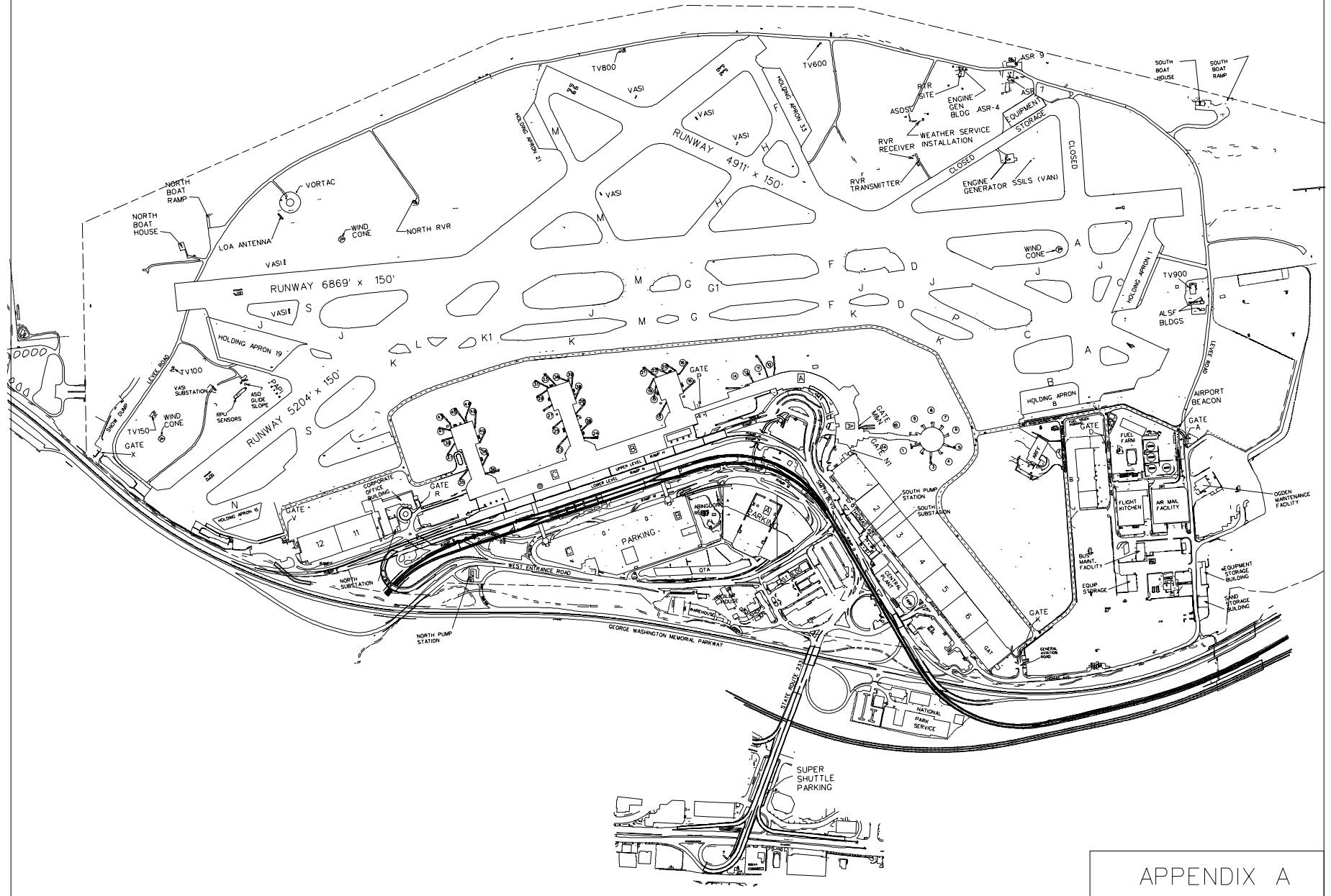
Services shall be considered to have been deficiently performed when, in the judgment of the Contracting Officer any one or more of the following conditions exist:

- a. Work was not performed in strict accordance with the quality requirements described herein,
- b. Contractor employees performing services while not uniformed as described herein.
- c. Creation of unsafe and/or hazardous conditions on the job site by the Contractor or its employees.
- d. Work not performed within the time period specified by the Authority.
- e. Work was not completed in full as requested by the Authority.
- f. Failure to provide qualified and adequately trained personnel on the job site.
- g. Loss of keys provided to the Contractor by the Authority.
- h. Failure to provide the Authority required documentation and records.

Appendix A

Airport Site Plan

SITE PLAN



Appendix B

Performance Standards, Cleaning Methods, and Quality

PERFORMANCE STANDARDS, CLEANING METHODS AND QUALITY

GENERAL

The Contractor shall comply with all the following materials, methods, and quality to fulfill the requirements of the Statement of Work.

All surfaces will be cleaned with a solution that is specifically manufactured for cleaning windows and painted aluminum panels.

All surfaces shall be cleaned manually using a squeegee, (glass surfaces only), cloth and/or brush containing cleaning solution. Cleaning solutions and methods of cleaning shall not be harmful to either the surfaces being cleaned or the surrounding surfaces. All surfaces, trim, louvers, edges, frames, etc. shall be free from dirt, smudges, grime water marks and streaks, insects and bird nests and shall be wiped clean and dried. All damage, drips, spills, splashes and the like on surrounding surfaces which result from the cleaning process shall be immediately cleaned up (before the Contractor leaves the job site each day).

Cleaning Methods

A. Removal of Construction Soils

Construction soils, including paint, concrete or mortar, etc., should be removed using procedures (approved by the COTR) that will minimize damage to the surfaces being cleaned. The exact procedure for cleaning will vary depending on the nature and degree of soil. Try to restrict cleaning to mild weather. Cleaning should be done on the shaded side of the building or ideally on a mild, cloudy day. Method of cleaning, type of cleaner, etc., of one component or the building must be used with consideration for other components such as glass, sealants, painted surfaces, etc.

Concrete spillage that has dried on the painted surface may become quite stubborn to remove. Special cleaners and/or vigorous rubbing with non-abrasive brushes or plastic scrapers may be necessary.

Diluted solutions of Muriatic Acid (Under 10 percent) may be effective in removing dried concrete stains, however, a test area should be tried first. Proper handling precautions must be exercised for safety reasons. Also, effective proprietary cleaners for concrete and mortar staining are available.

B. Removal of Surface Soil

Removal of surface soil may be accomplished in several ways. Some testing is recommended to determine the degree of cleaning actually necessary to accomplish the task. Ideally, an initial step of water rinse not-to-exceed 25 pounds at 5 g.p.m. from a distance of 18" from the surface from the top down is recommended prior to any cleaner application. Significant benefit is gained with some type of surface agitation. Physical rubbing of the surface with soft, brushes, sponges or cloth is also helpful.

The simplest procedure would be to apply to water moderate pressure (not-to-exceed 25 pounds at 5 g.p.m. from a distance of 18" from the surface) to dislodge the soil. If this does not remove the soil, then a concurrent water spray with brushing or sponging should be tested. If soil is still adhering after drying, then a mild detergent will be necessary.

When a mild detergent or mild soap is necessary for removal of soil, it should be used with brushing or sponging. The washing should be done with uniform pressure. The surface must be thoroughly rinsed with clean water. It may be necessary to sponge the surface while rinsing, particularly if cleaner is permitted to dry on the surface. The rinsed surface is permitted to air dry or is wiped dry with a chamois, squeegee or lint free cloth.

Run down of cleaner (from any operation) to the lower portions of the building should be minimized and these areas should be rinsed as soon as and as long as necessary to lessen streaking, etc. from unavoidable run down. Lower areas should be kept wet or flooded with water. Do not allow cleaning solutions to collect on surfaces or to "puddle" on horizontal surfaces, crevices, etc. These should be flushed with water and dried. Always clean coated surfaces down from top to bottom and follow with a thorough rinsing with clean water.

Where a more thorough cleaning is necessary, or for stains resulting from tree sap, insecticides, etc., the finish should be washed with a sponge or soft-bristled brush and a solution of mild detergent and water (1/3 cup mild detergent per gallon of water, for example). Immediately rinse surfaces thorough with a garden hose. An adequate rinse shall be assured to cleanse the finish and also further dilute the solution so as not to harm shrubbery. It is also advisable to test your solution or cleaner on a small inconspicuous area before application to larger exposed areas.

C. Removal of Spider Webs

Remove spider webs using procedures (approved by the COTR) that will not damage surfaces being cleaned. Contractor shall ensure that all spider webs are removed on all architectural framework with particular attention to building eaves.

D. Removal of Bird Droppings

Remove bird droppings using procedures (approved by the COTR) that will not damage surfaces being cleaned. Contractor shall insure that all bird droppings are removed on all surfaces with particular attention to bird droppings concentrations at the South Concourse glass wall. The Contractor shall use procedures that meet or exceed all applicable safety regulations as they pertain to bird droppings removal and disposal.

Cleaning Solutions

A. Hot and/or Cold Detergent Solutions

A five percent solution in water of commonly used commercial and industrial detergents will not have any deleterious effect on a painted aluminum curtain wall or glass surface, or related dry gaskets or air-cured sealant. These solutions should be followed by an adequate rinse of water. Use cloth, sponges or soft bristle brush for application. Cleaning should be done on the shaded side of the building or, ideally, on a mild, cloudy day.

B. Solvents

Most organic solvents are flammable and/or toxic, and must be handled accordingly. Keep away from open flames, sparks or electrical motors. Use adequate ventilation, protective clothing, gloves and goggles.

Solvents that may be used to remove non-water soluble deposits (tar, grease, oil, paint, graffiti, etc.) from painted aluminum panels or glass surfaces include:

Ninety percent solution of isopropyl (rubbing) alcohol - recommended.

Ninety percent solution of denatured alcohol (ethanol).

DO NOT USE ANY OF THE FOLLOWING SOLVENTS:

Methanol (wood alcohol)
Petroleum Solvents (Naphtha, Mineral Spirits, Turpentine)
Aromatic and Chlorinated (Xylene, Toluene)
Ketones, Esters, Lacquer Thinner
Methyl ethyl ketone (MEK)
Methyl isobutyl ketone (MIBK)
Ethyl acetate (nail polish remover)
Butyl acetate
Acetone/Paint Remover

(while some of the solvents listed above are not harmful to Duranar-coated or glass surfaces they are damaging to dry gaskets and air-cured sealants)

Note: Reynolds recommends AAMA's "Voluntary Guide Specification for Cleaning and Maintenance of Painted Aluminum Extrusions and Curtain Wall Panels", Publication Number 7101.1979.

It may be possible for solvents to extract materials from sealants which could stain the painted surface or could prove harmful to sealants; therefore, these possible effects must be considered. Test a small area first.

Cleaning Precautions

A. Building Surroundings

Consideration must be given to possible effects of run down on shrubbery, personnel, equipment, etc., located below. These factors may require considerations toward methods of timing. Contractor shall ensure that there are no puddles and/or slippery walkways caused from their cleaning efforts. Vacuum booms will be used to remove excess water/cleaning solution.

B. Glass Surfaces

Glass surfaces shall only be cleaned manually using squeegees and/or soft cloths, so as not to damage or scratch the glass. Razors may be used with the prior approval of the COTR to remove paint from glass surfaces.

C. Painted Aluminum Curtain Wall System

Painted Aluminum Curtain Wall System will be cleaned so as not to damage or scratch the surfaces.

D. **The Contractor shall not:**

Use excessive rubbing to clean surfaces.

Use strong solvents or strong cleaner concentrations that can cause damage to either surfaces being cleaned or the surrounding surfaces.

Use cleaners and/or solvents that contain abrasives on painted surfaces.

Use abrasive materials such as steel wool, abrasive brushes, etc.

Use methods that cause drips and splashes.

Perform any cleaning during periods of temperature extremes. Heat accelerates chemical reactions and may evaporate water from solution. Extremely low temperature may give poor cleaning effects. Cleaning under adverse conditions may result in streaking or staining. Ideally, cleaning should be done in shade at moderate temperature.

Scour painted surfaces.

Use paint removers, aggressive alkaline, acid or abrasive cleaners. Do not use trisodium phosphate or highly alkaline or highly acid cleaners. Always do a test surface.

E. **The Contractor shall:**

Follow manufacturers recommendations for mixing and diluting cleaners.

To prevent marring, make sure cleaning sponges, cloths, etc., are grit free. Assure that surrounding surfaces are not damaged to cleaning efforts.

Quality and Inspection

A. Quality

All surfaces shall be clean (see Definitions) and dry. No damage shall have been caused to the artwork or the surroundings as a result of the Contractor fulfilling the requirements of the Statement of Work.

B. Inspection

The Contractor shall assure that the desired effect is being obtained with the use of set procedures. Inspection should commence early in the cleaning procedures and continue throughout the duration of the cleaning task.

Appendix C

Terminals B and C MWAA Owned Interior Man Lifts Inventory

Terminals B and C MWAA Owned Interior Man Lifts Inventory

MWAA TAG NUMBER	MAKE AND MODEL	TYPE	QUANTITY	YEAR	MAXIMUM HEIGHT
1121	UpRight X26	Scissor Lift	1	1997	32'
1122	UpRight X26	Scissor Lift	1	1997	32'
1123	UpRight TL33	Articulating Boom	1	1997	40'
1124	UpRight TL33	Articulating Boom	1	1997	40'
1125	Denka Atrium Aerial Lift	Telescoping	1	1997	81'
1126	Denka Atrium Aerial Lift	Telescoping	1	1997	81'
TOTAL			6		

Appendix D

Terminals B and C

Artwork and Locations

TERMINALS B AND C ARTWORK AND LOCATIONS

GLASS FRIEZE: (North)

Location: East Wall of the Main Concourse Level

Description: A decorative glass frieze 2'-0" in height running in length of the Air side wall in the Main Concourse. This glass is fabricated inside of typical insulated glass units each measuring 2'x8'. These are then installed in the curtain wall system in place of the standard glass units, forming the frieze.

GLASS FRIEZE: (South)

Location: East Wall of Main Concourse

Description: A decorative glass frieze 2'-0" in height running the length of the Air side wall in the Main Concourse. This glass is fabricated of typical insulated glass units, each measuring 2'x8'. These are then installed in the curtain wall system in place of the standard glass units, forming the frieze.

FLOOR MEDALLIONS

Location: There are 10 floor medallions placed along the floor of the Main Concourse Level in Terminals B and C.

Description: These medallions are circular, 18'-0" in diameter. Eight of these are fabricated in marble and glass mosaic, one is fabricated in poured in place terrazzo with cast bronze inserts, and one is fabricated in cut stone.

PORCELAIN BALUSTRADE PANELS

Location: There are 10 porcelain balustrade panel installations along the length of the Ticket Level Balustrade in the Main Concourse.

Description: Each artist's porcelain balustrade panel installation consists of 3 double sided panels. Each panel consists of two 16 gauge steel panels which are laminated to either side of a sheet of structural aluminum. The artist's images are fired, in porcelain, onto the 16 gauge steel. These panels are then glazed into the Ticket Level balustrade in place of the standard perforated metal panels in each location.

BOW FRONT BALUSTRADE INSTALLATION

Location: Ticket Level Balcony

Description: A sculptural balustrade installation consisting of a painted steel cage/frame construction within which are welded a series of cast bronze "elements of Americana" and a series of copper letters spelling out several verses of a poem by Walt Whitman.

SOUTH WALL TRELLIS INSTALLATION

Location: The South Wall of the Ticketing Level Concourse

Description: The trellis installation substantially blocks access to the glass of the curtain wall from a level approximately 10'-0" above the floor of the Ticketing Level Concourse. Above this point, every panel of the tracery is attached to 2'x8' operable aluminum frame which swings open. Each panel is equipped with 3 latches which normally hold it closed, and an integrated stand which can be used to hold it in the open position while the glass is being cleaned. Each panel must be opened, the glass behind cleaned, and then gently latched closed. This cleaning will have to be accomplished from a mobile lift on the Ticketing Level Concourse.

METRO-BRIDGE MURALS

Location: There are four wall mural installations in Terminals B and C. Two are located at the baggage wells for the North Metro-Bridge and two are located at the baggage wells for the South Metro-Bridge.

Description: Each Mural installation is made up of nine panels, each measuring approximately 2'x8', simulating the penalization of the standard high impact wall panels found throughout the Terminal. These panels are organized in a 3x3 grid, forming an overall mural which measures 6'X24". The panels are mounted flush with the surrounding wall panels.

SCREEN WALL INSTALLATION

Location: The East Face of the Service Corridor Bridge on the Concourse Level at the Center Well.

Appendix E

Glass and Painted Aluminum Curtain Wall Elevations

Note: Larger Scale Drawings available from the Maintenance Engineering Division, MA-126C.

Appendix F

MWAA Contract Service Call Order Form

RONALD REAGAN WASHINGTON NATIONAL AIRPORT
MAINTENANCE ENGINEERING BRANCH, MA-126

CONTRACT SERVICES CALL ORDER

Prepared: _____	Date Prepared: _____
Type of Work: _____	Requested By: _____
Contractor: _____	Contract #: _____
Address: _____	Contractor POC: _____
_____	Office Telephone : _____
_____	Emergency Phone _____
Other Data: _____	Contractor Fax: _____

Location (Name, [Account Code]) and Description of Work _____

Work Estimates

Estimate Date: _____	Site Visit Date: _____
MWAA Estimator: _____	Contractor Estimator: _____
Work Item(s): _____	QTY/UM: _____
_____	_____
_____	_____
_____	_____
Estimated Cost: _____	Notes: _____

APPROVALS / ACCEPTANCE OF TASK

NOTE: By signing this Call Order, the Contractor acknowledges that he/she will only perform the work described herein after this Call Order is approved in writing by the COTR. Furthermore, the cost to the Authority for this work shall not exceed the "Estimated Cost" noted above.

	Call Order #	_____
MA-126: _____	Date: _____	Date Issued: _____
COTR: _____	Date: _____	Date Completed: _____
Inspector: _____	Date: _____	Date Invoiced Rev'd: _____
Contractor: _____	Date: _____	Invoice Amount: _____
Remarks: _____		

Appendix G

Bus Shelters





