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**Part 1 GENERAL**

**1.1 GENERAL PROTECTION**

- .1 Do not disrupt airport business except as permitted by Departmental Representative.
- .2 Provide temporary protection for safe handling of public, personnel, pedestrians and vehicular traffic: to Section 01 56 00 - Temporary Barriers and Enclosures.
- .3 Provide barricades and lights where directed.

**1.2 MOVEMENT OF EQUIPMENT AND PERSONNEL**

- .1 In areas of airport not closed to aircraft traffic:
  - .1 Obtain Departmental Representative's approval on scheduling of Work.
  - .2 Control movements of equipment and personnel as directed by Departmental Representative.
  - .3 Provide qualified field personnel at locations designated by Departmental Representative to relay signals from airport traffic control tower to equipment and personnel wishing to cross live traffic areas.
  - .4 Obey signals from airport traffic control tower instantly.

**1.3 OPERATIONAL RESTRICTIONS AND CONSTRAINTS**

- .1 Comply with operational, safety and security and other applicable requirements in the execution of the work and working in close proximity of live runways and taxiways, including but not limited to the following:
  - .1 The integrity of all electronic and visual navigational aids associated with live aviation activities on airside must be maintained for aircraft operations, which take precedence over construction operations.
  - .2 Buried power, communication and control cables and other underground structures and services in the vicinity of the construction areas are to be identified and protected.
  - .3 Emergency rescue services mobility must be preserved at all times. Operating routes must be reviewed by Departmental Representative on a bi-weekly basis to ensure that access is maintained at all times. Alternative and approved routes are to be established if new construction is anticipated to interfere with such access.

**1.4 UNSERVICEABLE AREAS**

- .1 Mark off areas made unserviceable for aircraft by Work of this Contract by providing plainly visible danger markings by day and red lights by night.
- .2 Open flames and inflammable fuels are not permitted.
- .3 Park equipment not in use and stockpile materials so that stockpile tops are below 50 to 1 ratio from ends of useable landing strip and below 20 to 1 ratio from sides of aircraft traffic areas.

- .1 Mark tops with red lights as directed by Departmental Representative.

## **1.5 TRENCHING**

- .1 Obtain Departmental Representative's written permission to undertake trenching on pavements open to aircraft traffic which cannot be completed, backfilled and sealed within one working day.

## **1.6 AIRPORT FACILITIES**

- .1 Departmental Representative will stake or indicate location of underground facilities such as cables, pipes and ducts.
- .2 Notify Departmental Representative of work areas sufficiently in advance of operations so that underground facilities can be located.

## **1.7 PROVISIONS FOR AIRPORT ACTIVITIES**

- .1 During construction, the Airport will remain in operation. The Contractor shall coordinate all efforts with the Departmental Representative and in accordance with the Plan of Construction Operations. In the event of conflicting traffic movement, all construction vehicles and personnel shall give way to aircraft. Aircraft shall have the right-of-way at all times.
- .2 No construction related vehicles or traffic shall travel on areas which are not part of the Project limits without receiving prior permission from the Air Traffic Control (ATC) or the designated security escorts.
- .3 Construction equipment and stockpiled materials shall be restricted to areas of construction areas or as indicated by the Departmental Representative.
- .4 The Contractor shall designate at least one (1) person who will be responsible to ensure all aspects of security and operational safety requirements are adhered to and have authority to rectify the situation. Such a person shall be available at all times during construction and is familiar with airport operations. This person does not need a valid radio license and will not be required to pass the Airport Vehicle Operating Permit (AVOP) test for the airport. The Airport shall provide escorting services.
- .5 At the completion of each Work Day, the excavation areas directly abutting operational airside pavement areas are to be backfilled to grade or sloped at 2% maximum. No open excavations shall be permitted.
- .6 During operational hours workers will move within airside fenced-in (some form of snow fencing on airside to provide a visual marker where workers will not be able to cross) area with a security pass. After hours, the contractor will be required to hire a commissionaire escort.
- .7 The Client wishes to advise all bidders of the following general operational requirements:

Area	General Operational Requirements
Office 202	2 temp workstations to be placed in room 112 during this work by Contractor.
Corridor 201	
NDB 203	Room must be accessible during construction. Staff will be told to wear full PPE for access  Note: This room requires coordination for access with PSPC due to room ownership.
Washroom 204 & Shower Room 204	Ensure first floor washroom is fully operational prior to taking this washroom offline
Locker Room 205	
Mezzanine 206 (Sleeping Quarters)	
Lunch Room 207	Lunch room work requested to occur during summer months. Temporary kitchen to be set up in short garage bay on first floor
Corridor 105 and Level 2	Complete exterior staircase prior to any work starting on this stairwell
Vestibule 101	
Diesel Room 102	Room 102 to remain accessible –Wear full PPE when accessing this room during construction
Corridor 103	
Telephone Equipment 103A	
Field Lighting Regulator and Switchgear Room 104	Room 104 to remain accessible – Wear full PPE when accessing this room during construction
Corridor 105	
Mechanical 106	Room 106 to remain accessible – Wear full PPE when accessing this room during construction
AES Vehicle 107	
Vestibule 108	

Area	General Operational Requirements
Janitor Room 109	
Alcove for Stair #1, 110	Exterior stairwell be completed prior to internal stairwell being placed under construction
Electrician's Area 111	
Maintenance Handyman 112	
Field Tools and Materials 113	
Vehicle Parts and Tool Storage 114	
Trade Storage 115	
Oil and Grease Dispensary 116	
Maintenance Bay 117A	Departmental Representative will work with rotating maintenance bays and park equipment outside, as required. It is requested that the major impacts to these areas be done during warmer weather.
Maintenance Bay 117B	Departmental Representative will work with rotating maintenance bays and park equipment outside, as required. It is requested that the major impacts to these areas be done during warmer weather.
Maintenance Bay 117 C	Departmental Representative will work with rotating maintenance bays and park equipment outside, as required. It is requested that the major impacts to these areas be done during warmer weather.
Maintenance Bay 117D	Departmental Representative will work with rotating maintenance bays and park equipment outside, as required. It is requested that the major impacts to these areas be done during warmer weather.
Urea Storage 118	
Sand Storage 119	

- .8 Client wishes to advise the following Operational requirements related to mechanical scope:
  - .1 Mechanical work in Corridor 105 and Level 2 - Complete exterior staircase prior to any work starting on this stairwell.
  - .2 Mechanical work in Maintenance Bay 117D and Sand Storage 119 - phase this work such that one or two bays remain accessible.
- .9 Client wishes to advise the following Operational requirements related to electrical scope:
  - .1 Level 2, NDB Room - Power cannot be down in this room. Please include the requirement for the contractor to provide a generator to continue services to this area.
  - .2 Field Lighting Regulator and Switchgear Room (Rm 104) - Systems such as airfield lighting and power to the terminal building to remain on. If the service will be down, airfield lighting to be down during the daytime, in favourable weather, ATB to be down after hours. Ideally, the contractor will provide generator backup.
  - .3 Replacement of the main service entrance board with new - Please include the requirement for the contractor to provide a generator to continue services to this area.
  - .4 Maintenance Door replacement - Each door must be removed, replaced and operational before moving on to the next door. Please ensure that a door is replaced during one work shift, or some suitable form of blocking be put in place prior to leaving at the end of the day for security reasons. Also, this work should be done in warmer weather.
  - .5 Generally, lights should be accessed by a 10ft ladder.

**1.8 DUST CONTROL, PAVEMENT CONDITIONS AND FOREIGN OBJECT DAMAGE (“FOD”)**

- .1 The Contractor shall be made aware that dust control on the Airport property is paramount as the facility will remain operational during the course of construction. Dust control shall be achieved through the application of water within the Project limits during periods of construction or as indicated by the Departmental Representative. There will be no separate payment for this item and cost of same being deemed to be included in the Contract. Application of water for dust control shall be as indicated by the Departmental Representative.
- .2 The Contractor shall supply appropriate labour and equipment to ensure pavement surfaces within and abutting the Project limits are kept clean and free of loose debris at all times.
- .3 For reference, the following outlines a general FOD - Foreign Object Damage Prevention Program in place at the Airport. A detailed briefing and policy will be provided at the Pre-Construction meeting:

**Applications:** All construction sites

**Guidelines:**

*The general contractor is responsible to ensure that each contractor on site is responsible for all debris caused by their forces, and must clean up the job site on*

*a continuous basis and must maintain the site in good order. Any materials likely to be wind swept must be tied down or made secure. All food stuff waste must not be scattered about the site, and must be placed in a closed container if outside the site trailers. (This will not only limit wind swept debris but will also provide some wildlife (bird) control measures.) All materials stored on site must be kept in an orderly fashion while not in use. The general contractor must take immediate action if materials are wind swept from the site location to prevent possible aircraft accident or damage. All the above precautions must be followed to minimize the possibility of aircraft accident or damage. Failure to follow the above precautions may result in closing of work site until FOD materials are cleaned up. If the contractor does not remedy the problem immediately, other forces may be retained to remedy the problem at the contractor's expense.*

- .4 The Contractor shall maintain sufficient watering equipment and sweeper backups on site at all times to control dust and debris.
- .5 Should the Contractor fail to control dust, debris and FOD, the Departmental Representative reserves the right to order the Contractor to cease all operations until adequate measures have been taken. The Contractor can make no claims for delay on this item.
- .6 In the event of an open Apron, Taxiway or Runway being fouled by truck spillage or debris, Contractor or his representatives on Site must:
  - .1 Immediately notify the ATC and the Departmental Representative or their designates that an area is temporarily unserviceable.
  - .2 Without delay arrange for clean-up by Contractor's personnel. Notify ATC and
  - .3 the Departmental Representative or his designate when area is clear.

## **1.9 SCHEDULE, PLAN OF CONSTRUCTION AND SAFETY PLAN**

- .1 The Contractor shall do everything reasonably possible to assure the progress of construction does not fall behind the schedule of construction approved by the Departmental Representative.
- .2 The Contractor shall supply the Departmental Representative with an updated schedule at the beginning of every working week to reflect the changes in the rate of progress and sequencing of operations.
- .3 At the start of construction, in addition to a schedule, the Contractor shall submit a detailed work program outlining all of resources required and the work plan for each construction stage. This plan shall clearly identify location of entry/exit, security personnel positioning, planned construction operations within the area of the Work, emergency plans, etc. The purpose of this document is to ensure the work program has been well thought-out prior to entering the planned zones of Work. No Work will be permitted on site until this plan is approved and reviewed by the Departmental Representative.

## **1.10 CONTRACTOR SECURITY PROVISIONS**

- .1 General
  - .1 "Restricted Area" means an area at an aerodrome identified by a sign as an area to which access is restricted to authorized persons.

- .2 "Restricted Area Pass" means a document or other piece of identification approved or issued by or under the authority of an aerodrome operator authorizing the holder to have access to a restricted area.
  - .3 It is compulsory to display the Restricted Area Pass in a clearly visible fashion at all times within a Restricted Area.
  - .4 The decision as to who may be authorized access to a Restricted Area shall be determined on a need and right of entry basis. No person shall be issued an Airport Restricted Pass unless need and right of entry has been established and/or substantiated as determined by the Departmental Representative.
- .2 Contractor's Responsibility
- .1 The Contractor shall be responsible for compliance with all aspects of security requirements for his personnel. This includes obtaining security clearances, and complying with escort services to be provided by the Departmental Representative.
  - .2 All personnel of the Contractor and Subcontractors working on the Site must attend a 3 hour Contractor Safety Briefing prior to project start. Personnel are required to attend the Contractor Safety Briefing annually.
  - .3 Be responsible for construction personnel and vehicles, employees on Project and requiring access to Restricted Areas.
  - .4 Ensure the superintendents, foreman, flagmen and key personnel of the Subcontractor attend a briefing, at Site, to be scheduled before the start of the Work, regarding safety and security.
  - .5 Designate a person who will be responsible to ensure all aspects of security and operational safety requirements are adhered to and have authority to take immediate action to rectify the situation. Such person should be available at all times during construction
- .3 Security Barrier/Gates
- .1 Security barriers such as fences, gates, locks, etc. are used to prevent or deter access by unauthorized persons to airport Restricted Areas. In the event it is necessary to remove such barriers, they must be replaced, where practical, at the end of each Work Day. If it is necessary to remove such barriers for an extended period of time, unprotected Restricted Areas shall be enclosed with temporary boarding and/or fencing. The Departmental Representative must be immediately informed of any possibilities that a Restricted Area may be left unprotected at the end of a Work Day.
  - .2 Failure to restore such security barriers when required will result in the cost of restoration being recovered from the Contractor. The Departmental Representative must be given prior notification when it is necessary to remove security barriers to permit access to construction areas. Security barriers will not be removed without the prior approval of the Departmental Representative.
- .4 Daily Security
- .1 Ensure that access to Restricted Areas are secured at the end of each work day.
  - .2 During work hours Contractor to supply gate keepers to ensure access to sites within Restricted Areas are controlled to prevent access by unauthorized persons.

- .3 When work is to be carried out within Restricted Areas outside of normal working hours, the Departmental Representative must be notified and approve of area and time frame.
- .5 Security Escort
  - .1 The Departmental Representative will provide or appoint personnel in possession of permanent Restricted Area Passes to perform escort duties within airport Restricted Areas. The services to be coordinated with the Departmental Representative.
  - .2 The Contractor will be required to cooperate with the security plan as part of the overall project schedule. The security plan and review of responsibilities is to be presented at the pre-construction meeting.
  - .3 The Contractor will be required to outline the security plan as part of the overall project schedule.
  - .4 Security Escorts must be coordinated as per the Plan of Construction Operations (PCO) on a daily basis and with a minimum of 24 hours' notice, unless specified in the PCO.
  - .6 The Contractor and its Sub-contractors will be required to submit their project superintendents and construction foremen and project managers to a security clearance procedure as required by the Departmental Representative. This process will require up to three (3) weeks and should be initiated immediately upon award of the Contract.
  - .7 Payment
    - .1 Any costs for security/escort services as a result of Contractor related deficiencies or poor scheduling will be the responsibility of the Contractor.

*Note: Security Escorts to be coordinated with Departmental Representative during Construction*

**Part 2 PRODUCTS**

**2.1 NOT USED**

- .1 Not Used.

**Part 3 EXECUTION**

**3.1 NOT USED**

- .1 Not Used.

**END OF SECTION**