CHARLOTTE DOUGLAS INTERNATIONAL AIRPORT
CHARLOTTE, NORTH CAROLINA

ADDENDUM NO. 4

MS SWITCHGEAR REPLACEMENT

CLT PROJECT NO. AVIA 25-15
ADDENDUM DATE: OCTOBER 10, 2024

RE-ADVERTISEMENT TO BID

The City of Charlotte (the "City") hereby invites sealed bids for the following project at Charlotte Douglas International Airport:

PROJECT NAME:	**MS Switchgear Replacement**
PROJECT NUMBER:	**AVIA 25-15**
EBUILDER BID PORTAL LINK:	**https://gateway.app.e-builder.net/app/bidders/landing?accountid=80fe0a4a-0c8f-4fcd-ac93-cc9db65522cb&projectid=5d56a1f5-a212-49cb-8b36-009b9d822b7a&bidpackageid=ab7edf0b-033b-44e8-94a7-8f8f5dad8fb5**
BID DUE DATE AND TIME:	**Tuesday, November 19, 2024, at 3:00 PM EST (Via MS Teams)**
BID OPENING LINK:	**https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZWI1ZGQzYTMtOTkyMS00ZmE4LWFlYzMtNjU4ZjU2NzE1ZmJm%40thread.v2/0?context=%7b%22Tid%22%3a%223392a0ee-6ccb-49c5-94b5-f5e6d8a665d6%22%2c%22Oid%22%3a%22735d7022-3aec-4269-9e0f-5601e3244fc6%22%7d** **(MICROSOFT TEAMS)**
BID OPENING MEETING NUMBER:	**259 015 169 234**
BID OPENING PASSWORD:	**FRyhWR**

PROJECT SUMMARY:

This project includes the replacement of the existing 2500A switchboard 'MS' located in the basement below the main terminal of CLT airport, as well as supplemental architectural/mechanical/plumbing work in the associated project areas. The existing switchgear shall be replaced with two (2) new electrical distribution panelboards and shall have backup power availability through the installation of a generator docking station and manual transfer switch. The new distribution panelboards shall feed all

existing circuits energized from existing switchboard ‘MS’. After all existing circuits have been refed, existing switchboard ‘MS’ shall be demolished. The electrical room walls and floors will be infilled, patched, painted, and finished upon completion of equipment installation and testing.

SCOPE OF WORK:
Refer to construction documents and specifications for an exact detailed scope. Construction shall meet the requirements of all applicable codes and standards as well as intent of construction documents.

Equipment Installation: Prior to the disconnection and de-energization of existing switchboard ‘MS’, all new electrical equipment shall be installed. A new generator docking station shall be installed on the ramp level outside of the existing baggage handling room. Vehicle impact protection shall be provided around the newly installed generator docking station. New conduit and wire from the load side of the generator docking station shall be routed through the ramp level into the main terminal basement switchboard ‘MS’ electrical room. A new manual transfer switch shall be installed inside the electrical room on the basement level. The new manual transfer switch shall be sized to support the full existing switchboard ‘MS’ electrical load, as well as additional future capacity. The generator docking station shall have kirk key interlocks and shall feed the emergency side of the manual transfer switch installed in the basement level of the terminal in electrical room. Two (2) new main circuit breaker electrical distribution panels shall be installed downstream of the new manual transfer switch. The two (2) new distribution panels shall be provided with overcurrent protection devices and shall be sized to support the full existing switchboard ‘MS’ electrical loads, as well as additional future capacity.

Infrastructure Refeed: After the installation of new electrical distribution equipment, the contractor shall proceed with install of all possible conduits, fittings, wires, boxes, etc. as practically possible between the newly installed equipment and the existing feeder circuits exiting from existing switchboard ‘MS’. After sequentially refeeding loads from existing switchboard ‘MS’, the existing circuit from the existing service entrance rated switchboard ‘ST-2’ feeding existing switchboard ‘MS’ shall be intercepted and rerouted to feed the normal side of the manual transfer switch. Preventative maintenance work shall be performed on ‘ST-2’ during shutdowns.

The Contractor shall coordinate with Airport Facilities and Development staff prior to shutdowns of existing switchboard ‘MS’. The Contractor shall account for extended multi-hour-long power outages to critical electrical loads such as telecommunication racks, low voltage equipment, elevators, lighting systems, and power systems. Once the outage related construction schedule is approved by CLT, an Airport-owned and operated temporary mobile 1000KW generator shall be brought to site by CLT and parked adjacent to the newly installed generator connection cabinet on the ramp level outside of the existing baggage handling room. The generator shall be connected to the generator connection cabinet. The manual transfer switch in the switchboard ‘MS’ electrical room shall be set to operate from the emergency input feed. Utilizing the newly installed electrical infrastructure will allow for existing circuits from existing switchboard ‘MS’ to be sequentially refed from the newly installed electrical distribution panels in the same electrical room in an effort to minimize downtime to facilities. All outages shall take place approximately between 8PM – 8AM and must be planned a minimum of 30 days in advance. The temporary mobile generator will remain in operation for the duration of circuit refeeding and will require refueling and constant on-site observation. Contractor shall develop recovery plans should the

duration for generator operations be extended more than one week. Once all existing circuits from existing switchboard 'MS' have been refed from the newly installed electrical distribution panels, the main feed to existing switchboard 'MS' shall be intercepted and routed to the normal power input side of the newly installed manual transfer switch in the same electrical room. Once final connections have been made to the manual transfer switch, the switch shall be cycled to the normal input power feed and the mobile generator on the ramp level shall be disconnected and removed.

Space Finish: Newly de-energized existing switchboard 'MS' shall be demolished and removed in its entirety. The switchboard sections shall be disassembled and disposed of properly; existing breakers inside switchboard 'MS' shall be turned over to CLT Building Maintenance to be used as spares for other legacy switchboards. Upon completion of demolition, the electrical room shall continue to be utilized for electrical and telecommunications equipment.

All existing lighting and lighting controls shall be replaced in the electrical room with new LED luminaires. All existing unsealed penetrations and openings in walls, ceilings, and floors shall be patched, sealed, and finished per the Architectural plans and specifications. Additional fan coil units shall be installed for supplemental cooling in the electrical room and adjacent elevator machine room and shall be integrated with the existing Airport building automation system (BAS). Modifications to existing ductwork, mechanical piping, plumbing piping, lighting, and low voltage circuits shall be included as part of a turn-key installation. Additional valves shall be installed on ramp level in baggage room.

Bidders may obtain the complete Project Manual, including all plans, drawings, specifications, and addenda ("Bid Documents") from the eBuilder Bid Portal. Bidders may access the bid portal via the eBuilder Bid Portal link shown above.

Title VI Solicitation Notice: The City, in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 USC §§ 2000d to 2000d-4) and the Regulations, hereby notifies all bidders that it will affirmatively ensure that any contract entered into pursuant to this Invitation to Bid, businesses will be afforded full and fair opportunity to submit bids in response to this invitation and no businesses will be discriminated against on the grounds of race, color, national origin (including limited English proficiency), creed, sex (including sexual orientation and gender identity), age or disability in consideration for an award.

Please NOTE: This is a re-bid. Bidders are encouraged to reuse the original bid documents that were issued during the bid period of 10/07/2024 – 11/8/2024 which included drawings, technical specifications, and addenda.