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**ADDENDUM No. 2**

**Assistive Listening System  
M&T Bank Stadium  
MSA Project No. 22-071**

**Date Issued:** May 20, 2022

This Addendum is hereby made a part of the Contract Documents dated May 9, 2022, on the subject work as though originally included therein. The following amendments, additions, and/or corrections shall govern this work. **This form should be acknowledged below and submitted with the Bids.**

This Addendum incorporates the following items:

1. Scope of Work Clarifications.
2. Questions and Answers.

**Issued by:**

Maryland Stadium Authority  
333 W. Camden Street, Suite 500  
Baltimore, MD 21201  
Sandra Fox, Procurement Officer

\_\_\_\_\_  
Company

\_\_\_\_\_  
Acknowledgment  
(Name and Title)

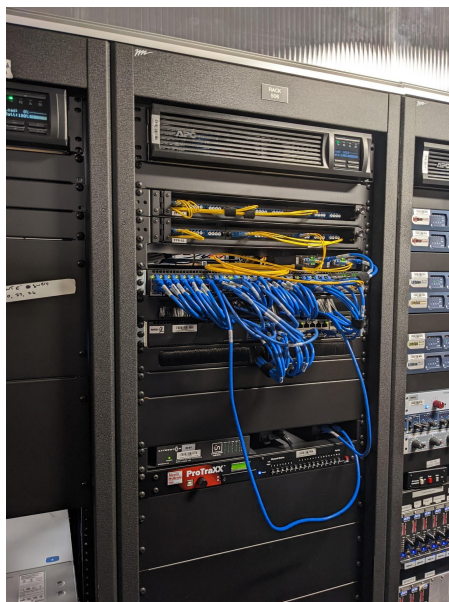
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Date

## SCOPE CLARIFICATIONS

1. It was observed that there is not an available analog audio port in the BSS units in the Lower Suite Level Amplifier Rooms. We will not require the addition of an analog output card to those BSS units. The requirement to install an analog audio line from the Lower Suite Amplifier Room to the Press Level Telco Rooms (along with a Cat6 for Dante) will remain for future use.
2. Additional photos of the perspective Lower Deck installation locations are here:



3. An additional photo for the destination rack in the Press Level Rack Room is here:



## Questions and Answers:

- 1. Is there a 3rd party to the system control method? [This is assumed to be referring to a question about the audio control system.]**

The sound system is controlled by BSS Soundweb system run by London Architect software.

There would be a small BSS programming component to the scope to set up a basic interface to the hearing assist Dante/analog audio feed. The programming should allow for viewing and control of levels to the hearing assist system.

- 2. Is there fiber to the southeast light tower?**

No. The feed to that light tower is analog audio on a XLR connection.

- 3. Is there existing copper XLR into the unit [in SE light tower]?**

Yes the program audio feeding the existing unit in the southeast light tower is analog audio on XLR connectors. While the new transmitter will replace the old one, the intent of this scope is for the analog audio to be re-used as the audio source into this transmitter.

- 4. Will the channels on the Listen Technology transmitters need to be on different frequencies - thus forcing the receivers to be set to the frequency for the closest transmitter? Or will there be a global (shared) frequency?**

Our consultant confirmed with the vendor that the system will work with all five (5) transmitters set to the same frequency when establishing the technical specifications.

- 5. Is there a DAS and/or separate WiFi system at the stadium?**

There is a full 5G DAS owned and maintained by Verizon with two additional carriers on it at M&T Bank Stadium. There is also a full WiFi network covering the stadium that is owned and operated by the Baltimore Ravens.

The only component of the package that would potentially utilize the stadium's WiFi would be Add-Alternate #1. The integration of the Add-Alternate system directly on the Ravens' WiFi network is not a part of this scope. The Contractor would have to confirm operability of the All Alternate system with a hardwired ethernet network connection provided by MSA, and it would be expected that the user would use general stadium WiFi or the user's cellular data for the feed to the user's hearing assist app.

**6. Who is the WJHW consultant of record for this project?**

The consultant who worked on the specifications was:

Stu Schatz  
Associate  
WRIGHTSON | JOHNSON | HADDON | WILLIAMS  
3424 Midcourt Road, Suite 124  
Carrollton, TX 75006  
Main: 972.934.3700 ext 257  
Email: [SSchatz@wjhw.com](mailto:SSchatz@wjhw.com)

**7. Please list or suggest vendors for Control Software Programming (BSS).**

The two BSS programming subcontractors would be:

Corbett Technology Solutions, Inc. (CTSI)  
Tanya Prendergast  
Service Contract Administrator  
7272 Jackson Avenue  
Mechanicsville, VA 23111  
Main: 703.631.3377  
Cell: 703.203.8549  
[tprendergast@ctsi-usa.com](mailto:tprendergast@ctsi-usa.com)

Sound + Video Works  
Steph Carolan  
c 410-274-0535  
[steph@svworks.net](mailto:steph@svworks.net)

**8. Please list or suggest vendors for electrical subcontractor (Conduit)**

You may use the electrician of your choice. However, here are two recommendations if you do not have an electrician to provide this quote:

Malstrom Electric  
Bill Malstrom  
13815 Jarrettsville Pike  
Phoenix, MD 21131-2019  
W 410-683-1136  
C 410-365-5444  
[billsr@malstromelectric.com](mailto:billsr@malstromelectric.com)

American Energy Services (AES) - MSA on-call contractor  
Weldon Richmond (Ritchie)  
cell 929-355-3124  
[wrichmond@aeservices.us](mailto:wrichmond@aeservices.us)

**9. Please list the type and kind of fiber optic cables running from the master control room to the amplifier room locations.**

The primary fiber to the four amplifier rooms on the Lower Suite Level from the Rack Room at M&T Bank Stadium is single mode . Mult-mode fiber is also available, and each riser also has legacy audio copper lines to the Rack Room on the Press Level.

**10. Has this ADA System design been approved or consulted on with the equipment manufacturer Listen Tech?**

Yes, the equipment manufacturer was consulted by the project consultant for this scope.

**11. Will the Audio signals to the ADA Transmitters be Analog Audio or Dante Digital Audio?**

QUADS A, C and D

In Quads A, C and D riser closets on the Press Levels, the source of the audio for the hearing assist transmitters will be Dante program audio. This audio will originate in the Lower Suite Level Amplifier Room, stacked directly two floors above the Press Level risers. Sleeved penetrations between the floors are available. Note the following: As detailed in the scope, the Contractor must restore the firestopping for any disturbed penetrations. Also, the scope does call out the addition of an analog audio line for backup signal purposes along with the data line between the Lower Suite Amp Room and Press Level Telco Riser.

QUAD B

In Quad B, the feed will also be Dante. The transmitter and Dante equipment will live in Rack 506 in the scoreboard Equipment Rack Room, which is slightly different (two racks to the left) of the two rack locations illustrated on Exhibit Drawing Av3-01

SE LIGHT TOWER

As mentioned previously, the 5th transmitter location will be in the southeast light tower and will be an analog audio feed. See questions 2 & 3 of this Addendum.

**12. Per Specification 274116 Assistive Listening System Section 1.8 (SYSTEM DESCRIPTIONS AND REQUIREMENTS) Part B.7.d:  
“Please confirm if it is acceptable to the MSA that the successful bidder test a sampling of seats within each seating section of the**

**stadium and provide test results that reflect reception by seating section. Map of seating sections confirming signal strength and coverage area to be provided based on the test result data.**

MSA will allow testing by section as follows, rather than testing at each seat:

- Lower Deck and Upper Deck seating (large seating sections) - Test at each corner of each section as well as one midpoint in the section, AND one additional midpoint at the *back* of the section (6 test points per section)
- Club Level Seating - Test at a midpoint in each section (1 test point per section.)
- Suite Level Seating - Test at one (1) point on each suite balcony.