AD 01 00
ADDENDUM #1

This Article is noted as **Addendum No.** 1**, dated 01/09/2026**, to the **Campus Site and Athletic Improvements - Pressbox A/V**, **BP1F - Pressbox A/V**. Update bid documents as necessary with the enclosed information to ensure that a complete turnkey work scope is included at bid time. Each Bidder/Contractor/Sub-Contractor will be held responsible for reading and adhering to any and all data as found within the following pages.

AD 01 01 Pre-Bid RFIs

1.1. See the following attachments for the below noted Pre-Bid RFIs:
1. Pre-Bid RFIs #: N/A

AD 01 02 AVB Write-Up/Work Scope Changes

1.1. Pre-Bid Walk Notes

1.2. Stadium As-Built from BP1A Stadium Project

AD 01 03 TowerPinkster Write-up/Document(s) Issued

1.1. TowerPinkster, Addendum 1 Narrative.

1.2. Specifications Sections Reissued/Added:
1. 27 4116

1.3. New / Reissued Sheets (under Separate Cover): None

End of Addendum #1 Write Up.

See the Following Pages for Attachments.

TowerPinkster
Architecture · Engineering · Interiors

ADDENDUM NO. 1

DATE OF ISSUANCE:	**January 09, 2026**
PROJECT:	**Campus Site + Athletic Improvements (BP 1B)** **Mattawan, MI 49071**
OWNER:	**Mattawan Consolidated School**
ARCHITECT'S PROJECT NO.:	**23-106.015**
ORIGINAL BID ISSUE DATE:	**October 31, 2025**

SCOPE OF WORK
This Addendum includes changes to, or clarifications of, the original Bidding Documents and any previously issued addenda, and shall be included in the Bid. All of these Addendum items form a part of the Contract Documents. The Bidder shall acknowledge receipt of this Addendum in the appropriate space provided on the Bid Form. Failure to do so may result in disqualification of the Bid.

DOCUMENTS INCLUDED IN THIS ADDENDUM
This Addendum includes **2** pages of text and the following documents:

- Bidding Documents: **NONE**
- Contract Conditions: **NONE**
- Specification Sections: **27 4116**
- Drawings: **NONE**

CHANGES TO PREVIOUSLY ISSUED ADDENDA

None.

CHANGES TO BIDDING REQUIREMENTS

None.

CHANGES TO CONTRACT CONDITIONS

None.

CHANGES TO SPECIFICATIONS

ADD-1 Item No. S-1 - Changes to audio system requirements
Various sections of the Integrated Audio/Video Systems and Equipment specification have been altered or updated as indicated in bubbles with the "A1" designation.

CHANGES TO DRAWINGS

None.

END OF ADDENDUM.

SECTION 27 4116 – INTEGRATED AUDIO VIDEO SYSTEMS AND EQUIPMENT

PART 1 - GENERAL

1.1 SUMMARY OF WORK

A. Work includes the following, as described in this Specification document, associated project drawings and any subsequent addenda:

1. Existing technology demolition work
2. Provision of professional systems engineering and programming services.
3. Provision of accurate and timely project management, including, but not limited to:
    a. Implementation scheduling
    b. Coordination with Owner, Construction Manager, Technology Consultant and other trades
    c. Problem identification and resolution
    d. Installation coordination at site(s)
    e. Configuration and programming coordination
    f. Coordination of testing
    g. Coordination of Owner orientation
    h. Assembly and delivery of project documentation
    i. Accurate and timely delivery of administrative documentation
        1) Project schedules
        2) Project status reports
        3) Pay applications
        4) Other as requested
4. Receipt and storage of all equipment on behalf of the Owner.
5. Transportation of all equipment to designated locations.
6. Provision of complete and fully functional audio video systems.
7. Provision of complete trash removal and recycling services.
8. Provision of complete project documentation.
9. Provision of product orientation services.

1.2 RELATED DOCUMENTS

A. Project drawings

1.3 STANDARDS & GUIDELINES

1. Audiovisual design and installation practices shall comply with the following standards issued by AVIXA (Audiovisual and Integrated Experience Association) and ANSI/INFOCOMM
2. INFOCOMM 2014 - AV/IT Infrastructure Guidelines for Higher Education.
3. AVIXA A102.01:2017 - Audio Coverage Uniformity in Listener Areas.
4. AVIXA F501.01:2015 - Cable Labeling for Audiovisual Systems.
5. AVIXA V202.01:2016 - Display Image Size for 2D Content in Audiovisual Systems.
6. ANSI-J-STD-710 - 2015 - Audio, Video and Control Architectural Drawing Symbols

7. ANSI/INFOCOMM 2M-2010 - Standard Guide for Audiovisual Systems Design and Coordination processes.
8. ANSI/INFOCOMM 3M-2011 - Projected Image System Contrast Ratio
9. ANSI/INFOCOMM 4:2012 - Audiovisual Systems Energy Management.
10. ANSI-INFOCOMM 10:2013 - Audiovisual Systems Performance Verifications.

1.4 ACTION SUBMITTALS

A. Product Data: Submit applicable product information sheets for all products. Information sheets that include details for multiple model numbers, Contractor shall circle, or otherwise highlight, the applicable model number, color, other defining characteristic for the product being supplied.

1. Video display equipment (electronics, mounts and screens)
2. Enclosures/furniture (racks, enclosures, podiums)
3. Control system equipment (processors/user interfaces)
4. Audio system (amplifiers, mixers, speakers, microphones, antennas)
5. AV signal routing equipment (switchers, distribution amplifiers, transmitters, receivers)
6. I/O connection interface equipment (wallplate and floor box hardware)
7. Ethernet equipment (AV related)
8. Video conference equipment (codec, camera, interfacing)
9. Source equipment (AV sources)
10. All cabling & termination hardware

B. Installer Certifications: Submit manufacturer training certifications for installers.

C. Operation and Maintenance Data.

1. Not applicable

D. Warranty: Submit manufacturer's standard warranty statement. Submit Contractor statement of project warranty.

1.5 STADIUM AUDIO SYSTEM

A. Submit drawings including detail to indicate components, intended device locations, and intended signal flow/functionality as well as all parts required for a complete system.

B. Contractor is responsible for including any/all devices, cables, adapters and accessories to provide complete and functional systems. The Contractor shall supply all needed parts for functional systems, regardless of whether all parts are indicated on submittal drawings or otherwise.

C. Speakers

1. Speaker Coverage
   a. Coverage zones are indicated on audio plan drawings.
   b. All coverage zones shall have a loudness variation of no more than 5db from the loudest to quietest positions in the coverage zone.
   c. Home bleacher coverage shall have a peak loudness of 95db (A-weighted) in any position in the coverage zone.

A1

d. Away bleacher and field coverage shall have a minimum loudness of 90db (A-weighted) in any position in the coverage zone.
e. Concession and Field Event zones shall have a minimum loudness of 90db (A-weighted) in any position in the coverage zone.

2. Frequency Response
a. The audio system shall achieve a frequency response (+/- 10db) no lower than 85Hz and no higher than 16kHz.

A1

3. Environmental Rating
a. Components installed outside must have an IP55W or better environmental rating.

4. Mounting
a. All speakers must be installed in compliance with 27 0529 and all other specification sections related to mounting, sealing, and pathway. All connections must be weatherproof.
b. Pole-mounted speakers must use manufacturer provided or approved mounting methods.
c. Building-mounted speakers shall be mounted to metal Unistrut or otherwise within specified mounting methods. Cabling will be routed into the pressbox ceiling space.
d. Non-penetrating roof mounts are preferred.

A1

5. Warranty
a. All components shall carry a warranty of no less than 2 years.

A1

D. Audio Inputs

1. Wired Microphones
a. Provide and install one wired microphone with sports announcer switch for momentary muting/unmuting.
b. Provide and install microphone cords (for wired microphones), stands, and clips for each handheld style microphone in the project

A1

2. Wireless Microphones
a. General Purpose RF Wireless Microphone
1) Provide and install at least one RF wireless microphone kit with receiver and handheld transmitter for general purpose use
2) Provide and install microphone antennae, combiner, amplifier and any other necessary RF components to ensure wireless microphones function within entire stadium space
3) General purpose microphone shall be equivalent to or exceed the specifications of a Shure QLXD/SM58 combo kit
b. Referee RF Wireless Microphone
1) Provide and install at least one RF wireless microphone kit with receiver and bodypack transmitter to be used by referees for in-game announcements
a) Include waterproof beltpack
b) Include microphone mute switch for momentary muting/unmuting
c) Include waterproof headset style microphone to be connected to bodypack transmitter
2) Provide and install microphone antennae, combiner, amplifier and any other necessary RF components to ensure wireless microphones function within entire stadium space

A1

A1

3) Referee microphone shall be equivalent to or exceed the specifications of a Lectrosonics referee microphone kit

c. Portable microphone rack case auxiliary connections
1) Provide no less than 4 connections for Owner-provided aux mic road case
2) In addition to audio inputs, if an antenna amplifier and/or combiner system is implemented, provide BNC connectors for the A and B RF channels to extend the antenna amplifier system to the auxiliary rack

d. Coordinate all RF mic channels with local RF environment and with Owner's existing channel bands

3. Auxiliary Audio Inputs
a. Provide and install wall plates, including any baluns required for long cable runs at the following locations:
1) Any "AV" box location on the drawings
2) In a panel on the rack
b. Each auxiliary wall plate must include at least a 3.5mm TRS jack as well as dual RCA

A1

4. Scoreboard System Input
a. Provide accommodation for a mono line-level input from the scoreboard system to play back audio on the stadium audio system.

E. Audio Amplification, Processing, and Control

1. Amplification
a. Each amplifier channel shall be rated to deliver twice the power to the connected speaker(s) as the speaker(s)' rated peak power consumption.
b. Amplifier may incorporate processing and/or control integrally or additional components may be used for these functions.
c. The amplification stage of the signal chain shall use no less than five channels of amplification to allow for separate processing in each coverage zone.
d. Distortion shall be no more than THD+N (1000 Hz, at 1 dB below max output) <0.05%.

A1

2. Processing
a. Signal processing shall be incorporated into the system design for input channels and output channels.
b. Input channels (such as microphones and auxiliary inputs) shall have, at a minimum, gain adjustment, high pass filter, equalization, gating, compression, and volume control.
c. Output channels (such as the feeds to the amplification stage of the system) shall have, at a minimum, level adjustment, no less than 4 band fully parametric EQ, delay of no less than 2 seconds, polarity, FIR profiles with no less than 2048 taps, dynamic EQ, peak and thermal limiting.
d. Processing shall include Allen & Heath sLink option card or onboard port

A1

3. Control
a. Provide, program, and install a touch panel with a 7" diagonal size or larger with controls and indicators for the following:
1) Channel mute with visual indication of current mute status
2) Channel volume with visual indication of volume level from -inf. to 0dbFS and visual indication of input signal level.

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3) Master output volume to control the sum of all input channels with visual indication of output level
4) Master output mute button with visual indication of current mute status
5) Successful bidder will be responsible for replicating the user interface and functionality of Owner's Middle School Gym audio system which uses an Aurora Multimedia control system
6) Control system shall store at least one audio file such as the National Anthem and a button on the touch screen interface will play back the audio file as an input into the audio system

b. Provide and install a new Cisco switch to be used only for AV components
1) Switch must provide PoE to all devices that require it
2) An additional 20% or more of the required PoE budget will be provided for future devices
3) An additional 20% or more of the required port count will be provided for future devices

4. Assistive Listening System
a. Provide, configure, and install an assistive listening system to meet ADA requirements including at least the following:
1) RF Transmitter
2) Antenna system to cover entire stadium
3) Receiver body packs with ear speakers and lanyard loops
4) Charging equipment for all body packs
5) Assistive Listening Notification Signage
6) Any other required components to meet ADA

A1

5. Equipment Rack
a. New equipment rack is shown on project drawings
b. Before ordering rack, ensure that there is enough room to accommodate existing network, scoreboard equipment, camera equipment, and UPS in addition to the new AV equipment
c. Equipment shall be mounted in a way that allows the front and rear doors to be closed and which accommodates network patch cables installed between switch and patch panel

1.6 OVERALL PROJECT OVERVIEW

A. This project consists of demolition of existing audio system and the installation of new audio devices. Unless otherwise noted, the Contractor shall provide all technology hardware. Certain system types have various "Owner Furnished Equipment". This equipment shall be provided by the Owner, to the Contractor. Contractor shall install this equipment.

1.7 QUALITY ASSURANCE:

A. Manufacturer Qualifications: Minimum 5 years' experience in manufacture of similar products in use in similar environments, including project size, and complexity, and with the production capacity to meet the construction and installation schedule.

B. Installer Qualifications: Installation, disassembly, re-assembly and calibration shall be done by manufacturer-trained and certified installation technicians. Assigned site Project Manager (Site Foreman) shall have a minimum of 5 years' experience managing/supervising projects of similar size and complexity.

C. MATERIALS

1. Source Limitations: Obtain components and accessories direct from manufacturer or manufacturer-authorized distributor. Sourced product shall carry full manufacturer warranty support.
2. All supplied products must be new. Remanufactured or refurbished product shall not be utilized.
3. All supplied products must be new. Remanufactured or refurbished product shall not be utilized.
4. Electrical Components: Listed and labeled per NFPA 70, Article 100 by a testing agency acceptable to authorities having jurisdiction.

D. STANDARDS COMPLIANCE

1. Comply with the latest edition, revision or current guideline of each standard code (or best practice) as published by the following entities:
   a. American Institute of Architects (AIA)
   b. American National Standard Institute (ANSI)
   c. American Society for Testing and Materials (ASTM)
   d. Audiovisual and Integrated Experience Association (AVIXA)
   e. Building Industry Consulting Service International (BICSI)
   f. Electronics Industries Association (EIA)
   g. Federal Communications Commission (FCC)
   h. Federal Information Processing Standards (FIPS)
   i. HDBaseT Alliance (HDBaseT)
   j. Institute of Electrical and Electronics Engineers (IEEE)
   k. National Electrical Manufacturers Association (NEMA)
   l. National Fire Protection Association (NFPA)
   m. National Electrical Code (NEC)
   n. National Electrical Manufacturers Association (NEMA)
   o. National Institute of Standards and Technology (NIST)
   p. National Systems Contractors Association (NSCA)
   q. Occupational Safety and Health Administration (OSHA)
   r. Product Manufacturers within this Specification
   s. State and Local Municipality Code and Ordinances
   t. Telecommunications Industries Association (TIA)
   u. Underwriters' Laboratories (UL)

E. CURRENT VERSIONS

1. All products supplied shall be of the latest revision available at the time of Contract.

F. FIRMWARE

1. All products supplied shall have the latest firmware revision available at the time of Contract and be updated to the latest firmware revision just prior to commissioning and closeout.
2. Contractor shall provide and perform critical firmware updates on supplied products throughout the project warranty period. Critical updates are defined as any firmware update to correct any issue that causes the product to not function as intended resulting in a non-functional system. Non-critical firmware updates shall be postponed until just prior to commissioning and closeout.
3. All firmware updates shall be performed by Contractor, without charge to Owner, throughout project warranty period.

G. SOURCE CODE AND CUSTOM PROGRAMMING

1. For systems utilizing control system source code and or custom program/configuration files, Contractor shall supply, and transfer ownership of, all programs/files to the Owner as part of project Close-out Documentation. These files shall include, but not be limited to: uncompiled and compiled source code, customized modules, login credential documentation, etc. Any/all files and information, required to alter, update or change programming, shall be supplied to the Owner.

1.8 DELIVERY, STORAGE AND HANDLING

A. Pack and ship in accordance with manufacturer's recommendations:

1. Finish, assemble, and test all components in the factory before shipment.
2. Rack components will be sub assembled before delivery to jobsite.
3. Deliver components to room designated for installation.

B. Do not accept damaged products at the site. Do not install damaged products.

C. Store products in heated indoor storage near point of installation. Retain protective packaging until installing. Ship to jobsite only after roughing-in, painting work, and other related finish work has been completed and installation areas are ready to accept units and recommended temperature and humidity levels will be maintained during the remainder of construction

1.9 PROJECT CONDITIONS

A. Environmental Requirements: Do not install system until all mortar, wet and dust producing trades have completed their work and finished floor is in place.

B. Confirm all installation locations prior to start of work.

C. Where code permits, wiring may be run outside of conduit. Such wiring shall be coordinated either in a plenum space or by means of secondary enclosure that meets code requirements.

D. Field Measurements: Obtain required field measurements and indicating performance setups, ceiling construction, wall construction, ventilation features, electrical systems, networks and potential obstacles on shop drawings.

1.10 WARRANTY

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A. Manufacturer's written warranty indicating manufacturer's intent to repair or replace components of system that fail in materials or workmanship from date of Substantial Completion for the number of years indicated below.

1. Parts and labor project warranty shall be two (2) years, effective at date of project completion as determined by Owner sign-off of final pay application. Project warranty shall include all costs to troubleshoot and repair any/all reported problems reported during the project warranty period.

1.11 INSTALLATION

A. Contractor shall install, calibrate and tune system for preset environments determined by customer.

B. Calibrate systems for proper operation.

C. Refer to project drawings.

1.12 DEMONSTRATION

A. Train Owner's personnel to operate and maintain systems.

B. Include time to train owner's representative.

C. Turn over operation and instructions to Owner.

1.13 CLOSEOUT SUBMITTALS

A. Submittal format

1. (2) USB media for:
   a. Owner
   b. Technology Consultant

B. Maintenance data.

C. Inventory data (Excel spreadsheet).

1. By Building and Room:
   a. Each product:
      1) Manufacturer
      2) Product name
      3) Model number
      4) Serial number
      5) MAC address (if applicable)
      6) IP address (if applicable)
      7) Network Name (if applicable)
      8) Owner asset tag number (if applicable)

D. Software and Firmware Operational Documentation:

1. Software operating and upgrade manuals.
2. Program Software Backup: On USB media. This shall include non-compiled source code including any program module custom to the project. All login credentials required to open/access code and modules shall be supplied.
3. Printout of software application and graphic screens.

E. Source Code and/or equipment configuration files

F. As-Built diagrams/drawings

G. Provide (2) copies of all Closeout Submittals (one to Owner and one to Technology Designer)

1.14 FIRESTOPPING

A. Comply with TIA-569-D, Annex A, "Firestopping."

B. Comply with "Firestopping Systems" Article in BISCI's "Telecommunications Distribution Methods Manual."

1.15 GROUNDING

A. Install grounding according to the "Grounding, Bonding, and Electrical Protection" chapter in BICSI's "Telecommunications Distribution Methods Manual."

B. Comply with TIA-607-C and NECA/BICSI-607.

C. Locate grounding bus bar to minimize the length of bonding conductors. Fasten to wall, allowing at least a 2-inch clearance behind the grounding bus bar. Connect grounding bus bar to suitable electrical building ground, using a minimum No. 4 AWG grounding electrode conductor.

D. Bond metallic equipment to the grounding bus bar, using not smaller than a No. 6 AWG equipment grounding conductor.

1.16 IDENTIFICATION

A. Identify system components, wiring, and cabling complying with TIA-606-B. Comply with requirements for identification specified in Section 27 0553 "Identification for Communications Systems."

B. Cable and Wire Identification:

1. Label each cable within 4 inches of each termination and tap, where it is accessible in a cabinet or junction or outlet box, and elsewhere as indicated.
2. Each wire connected to building-mounted devices is not required to be numbered at the device if wire color is consistent with associated wire connected and numbered within panel or cabinet.
3. Exposed Cables and Cables in Cable Trays and Wire Troughs: Label each cable at intervals not exceeding 15 feet.
4. Label each terminal strip, and screw terminal in each cabinet, rack, or panel.
    a. Individually number wiring conductors connected to terminal strips, and identify each cable or wiring group, extended from a panel or cabinet to a building-mounted device, with the name and number of a particular device.
    b. Label each unit and field within distribution racks and frames.

5. Identification within Connector Fields in Equipment Rooms and Wiring Closets: Label each connector and each discrete unit of cable-terminating and -connecting hardware. Where similar jacks and plugs are used for both voice and data communication cabling, use a different color for jacks and plugs of each service.

C. Labels shall be preprinted or computer-printed type, with a printing area and font color that contrast with cable jacket color but still comply with TIA-606-B requirements for the following:

1. Cables use flexible vinyl or polyester that flexes as cables are bent.

1.17 FIELD QUALITY CONTROL

A. Tests and Inspections:

1. Visually inspect jacket materials for NRTL certification markings. Inspect cabling terminations in communications equipment rooms for compliance with color-coding for pin assignments, and inspect cabling connections for compliance with TIA-568.1-D.
2. Visually inspect cable placement, cable termination, grounding and bonding, equipment and patch cords, and labeling of all components.
3. Test twisted pair cabling for DC loop resistance, shorts, opens, intermittent faults, and polarity between conductors. Test operation of shorting bars in connection blocks. Test cables after termination but not cross-connection.
4. All CAT6 cables shall be certified in accordance with specification 27 1700 TESTING, IDENTIFICATION AND ADMINISTRATION OF BALANCED TWISTED PAIR INFRASTRUCTURE.

B. Data for each measurement shall be documented. Data for submittals shall be printed in a summary report that is formatted similarly to Table 10.1 in BICSI's "Telecommunications Distribution Methods Manual," or shall be transferred from the instrument to the computer, saved as text files, printed, and submitted.

C. Remove and replace cabling where test results indicate that they do not comply with specified requirements.

D. Ensure EDID compliance between source and sink devices. For systems utilizing multiple displays of disparate resolutions, an EDID documentation plan shall be created prior to installation. Switchers, distribution amplifiers, and/or other distribution hardware that are intermediary between source and sink, shall be properly configured to maintain proper EDID per industry best-practice.

E. Ensure HDCP compliance between source and sink devices. Switchers, distribution amplifiers, and/or other distribution hardware that are intermediary between source and sink, shall be properly configured to maintain proper HDCP key “handshake” per industry best-practice.

F. End-to-end cabling will be considered defective if it does not pass tests and inspections.

G. Prepare test and inspection reports.

END OF SECTION 27 4116

BUILD SOMETHING BETTER.

January 13, 2026

BP1B – Pressbox AV
AVB-25-118

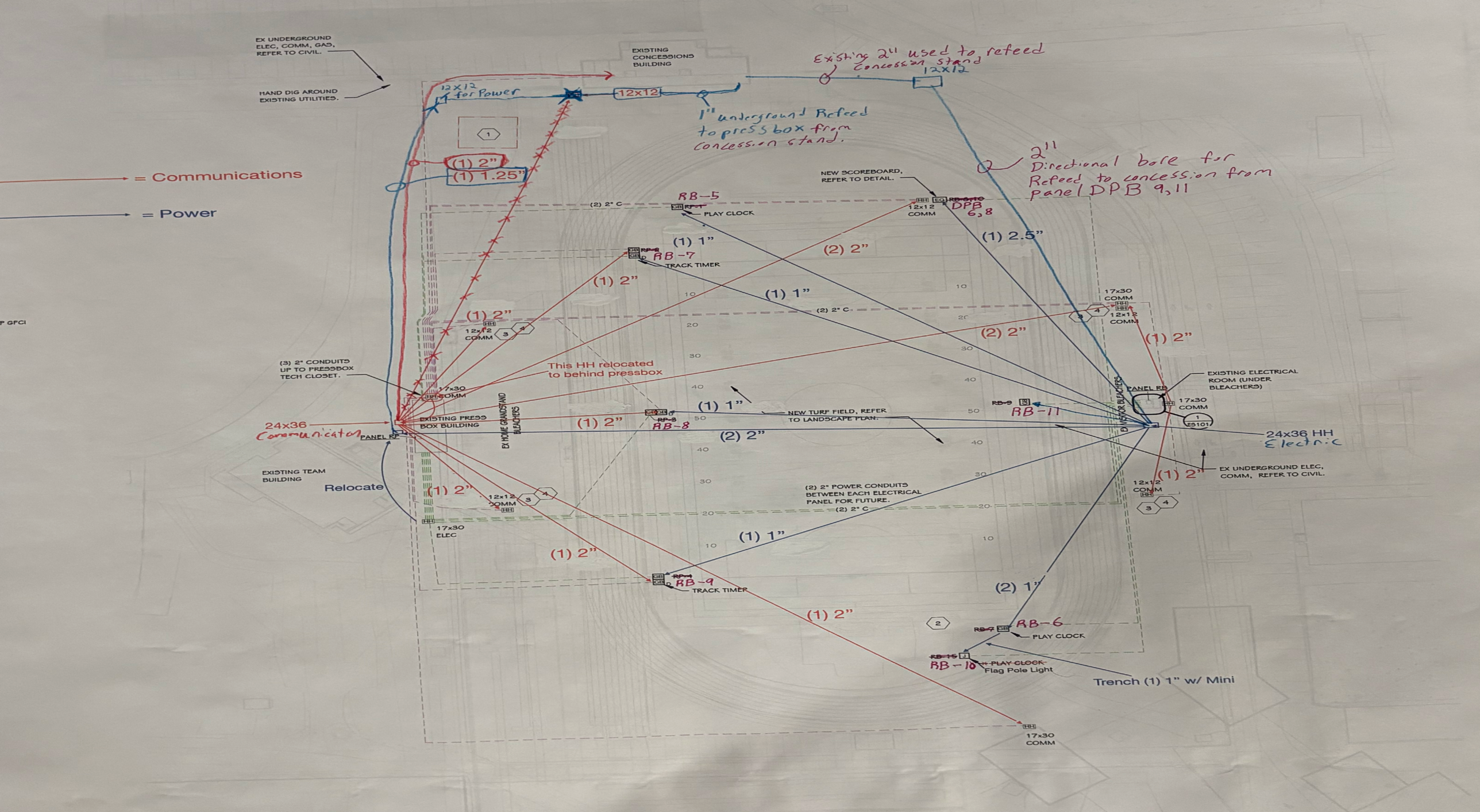
Pre-Bid Walk Through Notes & Clarifications

The following notes and clarifications are considered integral to bid documents and shall be included in base bid proposals in addition to previously issued bid documents, drawings, specifications, scopes of work, etc.

- See attached for walk-through sign in sheet
- All bidders shall include a TURNKEY system including all labor, materials, means, and methods to achieve the project goals.
- Bidders shall include the following (in addition to Trade Specific Work Scope):
    - Removal of existing speakers
    - Any required support for new speakers (specifications indicate this to be by GC; that is not accurate)
    - Any required support for cabling and pathways up existing stadium light poles
- As-built Drawings indicated below-grade pathways to stadium light poles is included for bidder use

Pre-bid RFI's are due Tuesday, January 20, 2026. Please email to Amanda at apeters@avbinc.com. A follow-up addendum will be issued to bidders with RFI responses

Bids are now due at 1:00 PM EST on January 26, 2026 to the District main office at 56720 Murray St, Mattawan, MI 49071


= Communications
= Power
EX UNDERGROUND ELEC, COMM, GAS, REFER TO CIVIL.
HAND DIG AROUND EXISTING UTILITIES.
EXISTING CONCESSIONS BUILDING
12x12 for Power
12x12
Existing 2" used to refeed Concession stand 12x12
1" underground Refeed to pressbox from concession stand.
2" Directional bore for Refeed to concession from panel DPB 9,11
(1) 2"
(1) 1.25"
(1) 2.5"
(2) 2"
(1) 1"
(2) 2" C
RB-5
PLAY CLOCK
RB-7
TRACK TIMER
RB-6
PLAY CLOCK
RB-9
TRACK TIMER
RB-8
RB-10
DPB 6,8
RB-11
NEW SCOREBOARD, REFER TO DETAIL.
12x12 COMM
17x30 COMM
17x30 ELEC
This HH relocated to behind pressbox
(3) 2" CONDUITS UP TO PRESSBOX TECH CLOSET.
24x36 Communication
EXISTING PRESS BOX BUILDING
PANEL RP
EX HOME GRANDSTAND BLEACHERS
EXISTING TEAM BUILDING
Relocate
NEW TURF FIELD, REFER TO LANDSCAPE PLAN.
(2) 2" POWER CONDUITS BETWEEN EACH ELECTRICAL PANEL FOR FUTURE.
EXISTING ELECTRICAL ROOM (UNDER BLEACHERS)
24x36 HH Electric
EX UNDERGROUND ELEC, COMM, REFER TO CIVIL.
RB-15
RB-10
PLAY CLOCK
Flag Pole Light
Trench (1) 1" w/ Mini
17x30 COMM