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**ADDENDUM NUMBER TWO**  
TO THE CONTRACT DOCUMENTS FOR CONSTRUCTION OF  
**ORANGE BEACH RECREATION COMPLEX**  
**NEW BASEBALL/SOFTBALL FIELD RENOVATIONS AT ORANGE BEACH SPORTSPLEX**  
CITY OF ORANGE BEACH

This addendum forms a part of the Contract Documents and modifies the Bid Documents dated May 4, 2020.

This Addendum consists of one (1) page Addendum, one (1) general documents, (1) specification & three (3) full-size sheets.

**GENERAL**

ITEM 01      BIDDER QUESTIONS  
Please see attached Document

**SPECIFICATIONS**

ITEM 01      SECTION 133416.13 – GRANDSTANDS  
1. **Replace note** Paragraph 1.04.A.5.1: “*Welded Decking System*”  
to “*Interlocking Deck System or Welded Deck System*”.

**DRAWINGS**

ITEM 01      SHEET LS001 – CODE STUDY  
**Reissue Sheet** in its entirety.  
1. Revised notes and code references.  
    a. Manual Fire Alarm System not required.  
    b. Egress Width of A-3 shown consistently as Non-Sprinkler building.  
    c. Egress Exit and Exit Access requirements for the IBC and ICC.  
2. Added the ICC-300 to the applicable code list.

ITEM 02      SHEET E302 – PRESS BOX ELECTRICAL PLANS  
**Reissue Sheet** in its entirety.  
1. Add Notes 3 & 4 requirements to the Press Box Notes.

ITEM 03      SHEET E500 – AUDIO RISER DIAGRAM  
**Reissue Sheet** in its entirety.  
1. Revised Note 2 with updated equipment rack type.  
2. Removed/Omitted Note 3



**END OF ADDENDUM #2**

No.	Scope	Sheet or Spec	Question/Comment	Source	Architect / Owner Response	Response By	Response Date (In/Out)	AD #
1	CIVIL	CIVIL SCOPE	Is the outfield dirt warning tracks for field 2 & 3 should be included in Base Bid or Alternate #3?	Green-Simmons	Outfield warning tracks for both fields are in the base bid.	SAWGRASS	(IN) 6/1/2020 (OUT) 6/5/2020	N/A
2	ARCH	A260	(Bahama Shutter Schedule) Shutter Type 1- Not found on elevation drawings. Please advise.	Green-Simmons	Bahama Shutter Type 1 was removed from the elevations, but we were not able to update the schedule prior to issuing the drawings. We will revise the schedule in Addendum #1 so that Shutter Type 1 is the shutter size used at the Batting Cage Facility. The Tags on the Batting Cage elevations will be updated to match.	Davis Architects	(IN) 6/1/2020 (OUT) 6/5/2020	N/A
3	ARCH	A260	(Bahama Shutter Schedule) Shutter Type 10 - Not found on Bahama Shutter Schedule, but four(4) shown on Batting Cage. Please advise.	Green-Simmons	Tag Number "10" relates to the material/fabrication note on the <b>LEGEND-BATTING CAGE EXTERIOR MATERIALS AND FABRICATIONS</b> . We have since added a Shutter Schedule TAG "1" to the elevations that will related to the revised Sheet A260 Shutter Schedule.	Davis Architects	(IN) 6/1/2020 (OUT) 6/5/2020	N/A
4	ELEC.	E101	(Note 6) Drawings calls for new wire to be pulled in existing conduit. Is there a way to know what size wire is in the conduit now or the size to replace it with?	Green-Simmons	The wire size is believed to # 2 AWG in 2" C	GSE	(IN) 6/1/2020 (OUT) 6/5/2020	N/A
5	ELEC.	E302	(Press Box Plans) Are we to quote wiring the press box or just supply the 100 amp feeder to it? The spec section for prefabricated press box said the unit will be prewired from the factory.	Green-Simmons	Supply the 100A feeder, Data cables. Scoreboard cables, and installation of equipment and associated cabling in Data Room.	GSE	(IN) 6/1/2020 (OUT) 6/5/2020	N/A
6	ELEC.	E302	(Press Box Plans) Do We furnish lights and devices?	Green-Simmons	Lights, switches, exit devices, smoke detectors, etc... will be provided and installed by the press box manufacturer. Press Box Manufacturer should provide the entire press box with the exception of a/v equipment and selective wiring. We highly recommend you to speak with the press box manufacturer and familiarize yourself with their services as services can vary between manufacturers.	GSE	(IN) 6/1/2020 (OUT) 6/5/2020	N/A
7	ELEC.	E302	(Press Box Plans) Do we furnish the wiremold as noted?	Green-Simmons	GC should coordinate whether their Press Box Manufacturer bidding is providing the wiremold. Typically the pressbox manufacturer should provide all building elements of the press box, with the exception of a/v equipment and selective wiring/paneling. If your press box manufacturer which bid you are using does not provide certain elements then it will be the responsibility of the GC to include in their scope.	GSE	(IN) 6/1/2020 (OUT) 6/5/2020	N/A
8	ELEC.	E104	(Pole Detail) Calls for welded nipples installed to the poles. The existing poles are concrete, do we need direction from core drilling holes in the existing pre-stressed poles?	Green-Simmons	Core drill pole and install RGS conduit fitting with short section off conduit. GC will need to seal any gaps with paintable exterior grade sealant and paint sealant and visible conduit to match surrounding pole paint color. Or propose an alternate method.	GSE	(IN) 6/1/2020 (OUT) 6/5/2020	N/A
9	ARCH/STRUCT	A300/S002	(Legend Arch Exterior Materials - Note 4) Arched Header as a "precast" concrete item. Sheet S002 typical details is calling for the header to be cast-in-place concrete. Please clarify what is required?	Green-Simmons	The ARCH is a Pre-Cast Arch. However, there are dowels that will need to be inserted into the arch so holes will need to be pre-formed to receive these dowels and then once the arch is installed the GC must fill these dowel holes w/ grout. See <b>TYPICAL CONC. ARCH ELEVATION</b> on Sheet S002	Davis Architects	(IN) 6/1/2020 (OUT) 6/5/2020	N/A
10	ARCH	Specs	Please provide specs on the interior signage (if any) in the press boxes.	Persons Services	There are no interior signage in the press box.	Davis Architects	(IN) 6/2/2020 (OUT) 6/5/2020	N/A
11	ARCH	Specs	Do existing structures need to be included in our Builder's Risk? If so, which structures?	Persons Services	No. Existing structures do not need to be included in builders risk. Though GC will be responsible for protecting any structures in the construction area that are to remain.	Davis Architects	(IN) 6/2/2020 (OUT) 6/5/2020	N/A
12	ARCH	A001	Please provide a detail for the new proposed scoreboard structure. (Plywood, 4x4, concrete footings, etc.)	Persons Services	No detail will be provided. The scoreboard and structure is existing. See <b>APPROXIMATE RELOCATION OF SCOREBOARD</b> Note, on Sheet A001 for clarification of new elements. GC will need to install the new 6x6 pressure treated and termite treated posts at a depth in 3000 psi concrete necessary to achieve equal or greater structural stability than the existing conditions. The existing footings are likely auger drilled pier footing where concrete was poured around the wood post.	Davis Architects	(IN) 6/2/2020 (OUT) 6/5/2020	N/A

No.	Scope	Sheet or Spec	Question/Comment	Source	Architect / Owner Response	Response By	Response Date (In/Out)	AD #
13	ELEC.	ELEC SCOPE	In the pre-bid walk-thru, it was discussed that the scoreboard itself will remain the same but the structure will be new. Will the Electricians need to hook the board back up?	Persons Services	Yes, the board will need to be hooked back up. New install should match existing installation.	GSE	(IN) 6/2/2020 (OUT) 6/5/2020	N/A
14	ARCH	Spec (323113)	Project Manual Table of Contents includes Specification 32 3113 Chain Link Fences and Gates, however there is no specification section included in the project manual. Please provide.	Green-Simmons	My set shows this spec as the last spec in the project manual. , but if you download our file from the plan rooms or from Orange Beach Purchasing Bid web site the Chain Link Fences and Gates is the last spec in the project manual.	Davis Architects	(IN) 6/3/2020 (OUT) 6/5/2020	N/A
15	ARCH	Spec (133416.13)	(Specification section 13 3416.13 Grandstands, Paragraph 1.01B.6) Mentiones a Geotech Report as part of the foundation design of the grandstands. Has a Geotech Report been performed for this project? If so please provide.	Green-Simmons	This can be found in our Project Manual. The Geotech Foundation Bearing Soil Evaluation was our Geotech report and included in the Project Manual in Spec Section 003110 following/related to the Available Project information Spec Section 003100	Davis Architects	(IN) 6/3/2020 (OUT) 6/5/2020	N/A
16	CIVIL	C400/C200	Sheet C400 indicates we are to regrade the infield grass area to 0.5% on field #2. Sheet C200 indicates turf is to remain. Which are we to do?	Persons Services	The infield of Field 2 is to remain as is. The infield is already at 0.5% slope and it is NOT to be regraded or re-sodded.	Davis Architects	(IN) 6/3/2020 (OUT) 6/5/2020	N/A
17	CIVIL	C400/C200	If we are to regrade should we extend the drainlines across the infield turf area and replace the irrigation?	Persons Services	The proposed drainlines WILL NOT cross into the infield of field #2, they will stop in the foul lines.	Davis Architects	(IN) 6/3/2020 (OUT) 6/5/2020	N/A
18	CIVIL	CIVIL SCOPE	What is the desired depth of infield mix?	Persons Services	The infield mix shall be 4" thick.	Davis Architects	(IN) 6/3/2020 (OUT) 6/5/2020	N/A
19	CIVIL	CIVIL SCOPE	Is the new warning track to be included in the base bid?	Persons Services	See Bidder Question #1 for the response to the previous question.	Davis Architects	(IN) 6/3/2020 (OUT) 6/5/2020	N/A
20	ARCH	ARCH SCOPE	Are the steel support columns and connecting beams included the structural steel bid and do we only need to bid the fabric? or Is the steel to be bid within the fabric design as part of the canopy?	Industrial Shades Incorporated	Per our specification only the fabric canopy and canopy attachment accessories will be provided and installed by the canopy manufacturer. The Steel Columns and frames will need to be engineered, provided and installed by the GC based on the drawings. Once the structure is installed and painted a company like yours should come in and install the fabric, cabling and accessory portions of the canopy itself. Please see the 13 3100 Fabric Structures specification for additional and clarify scope.	Davis Architects	(IN) 6/4/2020 (OUT) 6/5/2020	N/A
21	ARCH	ARCH SCOPE	In regards to the chairs for the grandstand – Interkal Aura Chair. Is the owner looking for chairs to have a solid back or one with slats?	Green-Simmons	Use solid back option. Do not use Slat option.	Davis Architects	(IN) 6/4/2020 (OUT) 6/5/2020	N/A
22	ARCH	ARCH SCOPE	The one question I do have is on the drawing, it looks like the tie-back pole is part of the grand stand structure and not a separate steel pool. In the spec language, it asks for a 20" steel poles for the tie-back. Could you please clarify which one is correct.	Beacon Athletics	There are two tie back poles provided by the netting company on the opposite side of each dugout and two columns acting as tie back poles provided by the gc/steel erector that are located behind the grandstand. The design of each GC column is assuming 2 kip max load for the netting system	Davis Architects	(IN) 6/5/2020 (OUT) 6/5/2020	N/A
23	ELEC.	Spec (Div 27/28)	The table of contents in the specifications references division 27 communications and division 28 electronic safety and security. I do not see those divisions in the specs? Please provide those sections	Bill Smith Electric	These are not required and that is why no specs were listed with the sections.	GSE	(IN) 6/9/2020 (OUT) 6/19/2020	N/A
24	ELEC.	E501	Data/Tel Riser Diagram shows new fiber optic cable, racks, converter, FDU, Rack mounted switches, etc. Is this cable and equipment part of the electrical scope or is it owner furnished? Please clarify if the electrical scope includes all communications equipment devices, cabling, etc.? Please provide specs	Bill Smith Electric	It is included in the electrical scope. A. Fiber Optic Cable – Similar or equal to Corning #006TUC-T4180D20 (OM3) B. CAT 6 C. Rack – Similar or equal to CPI # 11791-X25 D. Converter – Similar or equal to Transition Networks #SGETF1013-110-NA E. FDU – Similar or equal to – C2G #39101 F. Rack Mounted Switches – Similar or equal to Cisco Catalyst C9200-24P 24-port Gigabit POE switch	GSE	(IN) 6/9/2020 (OUT) 6/19/2020	N/A
25	ELEC.	ELEC SCOPE	E sheets mention BXD bird expeller device and bird control device. Who is providing these devices? Who is responsible to install them? Can you provide a cut sheet with installation instructions as mention on sheet E103 keyed note 4?	Bill Smith Electric	These are provided and installed under the electrical contract. Cut sheet and instruction attached. Model #BXP.	GSE	(IN) 6/9/2020 (OUT) 6/19/2020	N/A
26	ELEC.	E501	Sheet E501 Security camera system diagram. Plans mention cameras are owner furnished. Are they owner installed or contractor installed? Is the rest of the camera system (cabling, POE Switches, etc.) contractor provided and contractor installed? What about NVR/DVR? Please provide specs and cut sheets.	Bill Smith Electric	Cameras are owner furnished and installed. The rest of the camera system (cabling, POE Switches, etc.) contractor provided and contractor installed.	GSE	(IN) 6/9/2020 (OUT) 6/19/2020	N/A

No.	Scope	Sheet or Spec	Question/Comment	Source	Architect / Owner Response	Response By	Response Date (In/Out)	AD #
27	ELEC.	E500	Is the audio equipment, cabling, etc. owner furnished or contractor furnished? Please provide specs	Bill Smith Electric	This entire system is to be provided under this contract. Electrical contractor to install all raceways, and power as shown on drawings. A/V company will install all A/V equipment and install all signal and speaker cabling. The equipment components are on drawing. This system was designed by Modern Sound 251-380-9080 (Joe Fulton). None of this is Owner Furnished or installed.	GSE	(IN) 6/9/2020 (OUT) 6/19/2020	N/A
28	ELEC.	ELEC SCOPE	WAP wireless access point. Please provide a detail or spec regarding what equipment was used as the basis of design. Please provide spec	Bill Smith Electric	Ubiquiti Unifi UAP-AC-M-PRO. Outdoor POE + Access point. 2.4/5GHz-1300 Mbps – WIFI.	GSE	(IN) 6/9/2020 (OUT) 6/19/2020	N/A
29	ELEC.	Spec (108113)	Please confirm the number of bird control devices are two each at the batting cage ( alt#2) and one each at field #2.	Green-Simmons	(2) each at Field 2. (2) each at Field 3. (2) each at Batting Cage Building.	GSE	(IN) 6/15/2020 (OUT) 6/19/2020	N/A
30	ARCH	Spec (01210)	Paragraph 1.03 speaks of a contingency allowance. Is there a contingency allowance for this project?	Green-Simmons	The Owner has a contingency, but it is not being held within this project as an Allowance. The amount will not be publically released.	Davis Architects	(IN) 6/15/2020 (OUT) 6/19/2020	N/A
31	CIVIL	C500 & C501	3. Reference erosion control sheets C500 and C501. The notes on these sheets make reference to wetland buffer zones and delineated wetlands however none are identified. Is this project directly affected by wetland buffer and delineated wetlands?	Green-Simmons	No	SAWGRASS	(IN) 6/15/2020 (OUT) 6/19/2020	N/A
32	ARCH	Spec (015000)	Paragraph 1.07 Temporary Fence. Is the temporary construction fence required to be screened?	Green-Simmons	Yes	Davis Architects	(IN) 6/15/2020 (OUT) 6/19/2020	N/A
33	ARCH	Spec (015000)	Paragraph 1.09,D.3 contains verbage about the temp site enclosure fence becoming Owner's property? Please clarify what is meant by this statement	Green-Simmons	The GC will maintain and have complete responsibility of the fence throughout construction, however once demolition is completed the GC must provide a copy of all the gate and access keys to the fencing in order to access the site. The temporary fence will stay up until completion and then be taken down prior to the turning over the facility to the Owner.	Davis Architects	(IN) 6/15/2020 (OUT) 6/19/2020	N/A
34	CIVIL	CIVIL SCOPE	Is there a requirement for a NPDES or SWPP permit for this project?	Green-Simmons	Yes, the site is larger then an Acre	SAWGRASS	(IN) 6/15/2020 (OUT) 6/19/2020	N/A
35	CIVIL	CIVIL SCOPE	Is the foul line fencing for both fields to be removed and replaced with new fencing. Drawing sheet D002 does not specifically say to remove foul fencing but Drawing sheets A001 and A002 seems to indicate new fencing that would be included in the base bid. Please clarify.	Green-Simmons	See G101 for listed Alternates, See Civil for all notes and direction regarding field fencing. Architectural Drawings do not identify responsibilities for Field Fencing. Architectural drawings only identify fencing requirements for fencing beneath and around the buildings/grandstand.	Davis Architects	(IN) 6/16/2020 (OUT) 6/19/2020	N/A
36	ARCH	Spec (014000)	Paragraph 1.07A says " Owner will employ services of an independent testing agency to perform certain specified testing; payment for cost of services will be derived from allowance specified in Section 01 2100". There is currently no allowance for owner testing in this section. Also do we include this allowance in our proposal?	Green-Simmons	The Owner will hire their own Testing Agency after the project has bid. So the GC will not need to include a Allowance in for the Owners Testing Agency	Davis Architects	(IN) 6/16/2020 (OUT) 6/19/2020	N/A
37	ARCH/STRUCT	Spec (014538 & 051200)	The Owner-employed services includes testing and inspections for Earthwork, Cast-In-Place Concrete, Unit Masonry Assemblies and Structural Steel. Regarding the Structural Steel testing and inspections, most of the steel fabricators quoting this project are small steel fabricators who do not maintain AISC certifications. Spec Section 05 1200 – Structural Steel Framing, paragraph 1.6 Quality Assurance, section A offers an alternative to having a AISC certification program. This involves the testing agency to perform a shop audit at the fabricators plant along with other inspections. Will the this work be included in the Owner's testing agency allowance?	Green-Simmons	Due to the scale of this project we will waive the requirement for the steel fabricator to maintain a AISC Certification. No Audit will be required. No allowance is provided.	Davis Architects	(IN) 6/16/2020 (OUT) 6/19/2020	N/A
38	OWNER	OTHER	Are there any dedicated field staff positions required by the owner on this project?	Green-Simmons	Yes, there needs to be a full time super intendant on site.	City of Orange Beach	(IN) 6/16/2020 (OUT) 6/19/2020	N/A
39	ARCH	OTHER	Is a temporary on-site job trailer required for this project?	Green-Simmons	Yes	Davis Architects	(IN) 6/16/2020 (OUT) 6/19/2020	N/A



**SECTION 13 3416.13  
GRANDSTANDS**

**PART 1 - GENERAL**

**1.01 SECTION INCLUDES**

- A. Provide all labor, materials, equipment, engineering, and installation to provide a new permanent grandstand structure in accordance with the following specifications:
- B. Minimum acceptable criteria:
  - 1. Design per plan view and sectional view drawings.
  - 2. High Traction Welded Decking System as defined by ANSI/NSFI B101.1 and ANSI/NSFI B101.3 meeting the wet coefficient of friction (COF) of .6 on all walking surfaces. If media blasting is used to obtain the necessary wet (COF) of .6, those surfaces shall be anodized.
  - 3. All structural steel must be manufactured by an AISC certified structural steel manufacturer.
  - 4. All steel to be hot-dipped galvanized after fabrication.
  - 5. Powder coated enclosure panel on upper front portion of grandstand; ramps and stairs; front of Press Box.
  - 6. Concrete foundations shall be designed by the grandstand manufacturers engineer based on loads and foundation support reactions provided by grandstand manufacturers and geotechnical report. Grandstand foundations are to be included in this scope of work and shall be installed by a manufacture certified concrete installer with a minimum of 10 years' experience in grandstand foundations
  - 7. The overall length of grandstand shall be as per architectural drawings.
  - 8. The number of rows shall be as per architectural drawings.
  - 9. Height of front cross aisle from grade shall be as per architectural drawings.
  - 10. Width of front walkway to be as per architectural drawings
  - 11. The rise per row shall be as per architectural drawings.
  - 12. The depth per row shall be as per architectural drawings.
  - 13. Net seating capacity shall be as per architectural drawings.
  - 14. ADA seating shall be as shown on architectural drawings.
  - 15. The riser shall be structurally connected to the decking system panel every 12" longitudinal with ¼" diameter structural grade rivet. Tek screws are prohibited
  - 16. One-piece risers shall interlock to row above and overlap the rear tread of row below forming the required overlapping and interlocking riser system. Two piece and or wedged in risers are prohibited
  - 17. There shall be no gaps or cavities between the riser portion of the decking system and any supports or attachments. Open portions of the bolt runner are prohibited.
  - 18. Aluminum extrusions using alloy 6063-T6 and 6061-T6.
  - 19. Understructure framing consist of galvanized structural steel square tube columns, supports and stringers that form a clear span design per drawings.
  - 20. All welded connections shall be by certified steel and aluminum welders and inspected at the manufacturer by a licensed CWI
  - 21. Aisle and Egress stairs shall have a ½" overlap.
  - 22. At locations where platforms meet end to end a beveled four inch wide aluminum threshold shall be provided to cover the walking surface.
  - 23. Seat support system shall be universally adjustable to any location on the vertical plane of the decking system and shall. There shall be no through bolting of these items.
  - 24. All seat support, aisle step supports, aisle handrails and risers shall be installed from the topside of the decking system. There shall be no through bolting of these items through the riser system.
  - 25. Guardrail system shall consist of all-aluminum guardrail posts and railings with black vinyl chain link fencing

26. Grandstand manufacture must have a written quality control program for manufacturing, shipping and installation.

#### **1.02 RELATED REQUIREMENTS**

- A. Section 03 3000 - Cast-in-Place Concrete: Concrete mix design and testing requirements.
- B. Section 13 3416.16 - Prefabricated Press Box

#### **1.03 REFERENCE STANDARDS**

- A. AISC (COMM) - Commentary on the Specification for Structural Steel Buildings; 2005.
- B. ANSI/NFSI B101.3 - Test Method for Measuring Wet DCOF of Common Hard-Surface Floor Materials; 2012.
- C. ANSI/NSFI B101.1 - Test Method for Measuring Wet SCOF of Common Hard-Surface Floor Materials; 2009.
- D. ASTM A1011/A1011M - Standard Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength; 2018a.
- E. ASTM A123/A123M - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products; 2017.
- F. ASTM A307 - Standard Specification for Carbon Steel Bolts, Studs, and Threaded Rod 60 000 PSI Tensile Strength; 2014 (Editorial 2017).
- G. ASTM A36/A36M - Standard Specification for Carbon Structural Steel; 2014.
- H. ASTM A500/A500M - Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes; 2013.
- I. ASTM A992/A992M - Standard Specification for Structural Steel Shapes; 2011 (Reapproved 2015).
- J. IAS AC172 - Accreditation Criteria for Fabricator Inspection Programs for Structural Steel; International Accreditation Service, Inc; 2017.
- K. ICC (IBC)-2018 - International Building Code; 2018.
- L. ICC 300 - Standard for Bleachers, Folding and Telescopic Seating and Grandstands; 2017.

#### **1.04 SUBMITTALS**

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Shop Drawings: Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for each type of the following grandstand system components as follows: All approval drawings shall bear the seal of a registered professional engineer in the state of installation.
  1. Foundations:
    - a. Footings, foundations, reinforcement and anchor bolt setting plan.
  2. Structural framing: All structural framing members shall have a permanent piece mark that shall correspond to the shop drawings and bill of material.
  3. Primary and secondary framing including but not limited to the following:
    - a. Columns
    - b. Beams
    - c. Stringers
    - d. Bracing
    - e. Connecting hardware
  4. Interlocking Decking System or Welded Decking System:
    - a. Decking Platforms
    - b. Risers
    - c. Supports for Seats
    - d. Aisle Steps

- e. Aisle Handrails
  - f. Egress Stairs
  - g. Hardware
  - h. Seating
  - i. Handrails / Guardrails
- C. Finish Samples: 3 physical samples of each finish and product for approval.
  - D. Color Samples: 3 samples of each color selection for approval.
  - E. Manufacturer's Mill Certificate: Certify that products meet or exceed specified requirements.
  - F. Fabricator Test Reports: Comply with ASTM A1011/A1011M.
  - G. Designer's Qualification Statement.
  - H. Fabricator's Qualification Statement: Provide documentation showing steel fabricator is accredited under IAS AC172.
  - I. Welders Certificates: Certify welders employed on the Work, verifying AWS qualification within the previous 12 months.

#### **1.05 QUALITY ASSURANCE**

- A. Designer Qualifications: Perform design under direct supervision of a Professional Engineer experienced in design of this type of work and licensed in the State in which the Project is located.
- B. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with at least five years of documented experience.
- C. Concrete Installers Qualifications: An experienced installer who has completed concrete work similar in material, design and extent indicated for this project and whose work has resulted in construction of grandstands with a record of successful in-service performance. Concrete installer must be certified by grandstand manufacturer.
- D. Erector Qualifications: An experienced erector who has specialized in erecting and installing grandstands similar in material, design, to the extent indicated for this project and whose work has resulted in construction of grandstands with a record of successful in-service performance. Grandstand Erector must be certified by grandstand manufacturer.
- E. Quality Control: Manufacturer's written quality control for manufacturing, shipping and installation shall be submitted prior to award of contract.
- F. Standards and Guidelines: Comply with the provisions of the following codes, specifications and standards, latest editions, except as otherwise noted or specified:
  - 1. American Concrete Institute (ACI)
  - 2. American Institute of Steel Construction (AISC (COMM))
  - 3. American Welding Society (AWS)
  - 4. Americans with Disabilities Act (ADA)
  - 5. Underwriters Laboratory (UL)
  - 6. National Electrical Code (NEC)
  - 7. International Building Code (ICC (IBC)-2018)
  - 8. International Building Code - Standard for Bleachers, Folding and Telescopic Seating and Grandstands (ICC 300).
  - 9. Site visitation: Bidder shall be responsible for visiting the job site prior to the bid date to verify site conditions.

#### **1.06 DELIVERY, STORAGE AND HANDLING**

- A. Grandstand materials and other manufactured items will be packaged and loaded for transport to prevent bending, warping, twisting, and surface damage of materials. Care will be taken at the job site to prevent any damage to materials.
- B. Grandstand materials must not be stored where they would come in contact with other materials that might cause staining, denting or other surface damage.



### **1.07 WARRANTY**

- A. All products after proper erection, and under normal use for this type of structure shall carry a minimum five (5) year warranty against all defects in materials and workmanship.

## **PART 2 PRODUCT**

### **201 MANUFACTURERS**

- A. Basis of Design Manufacturer: Outdoor Aluminum, Inc: [www.outdooraluminum.com](http://www.outdooraluminum.com).
- B. Other Acceptable Manufacturers: Subject to requirements, provide grandstand systems by one of the following:
  - 1. Southern Bleacher Company Inc: [www.southernbleacher.com](http://www.southernbleacher.com).
  - 2. Dant Clayton: [www.stadiumbleachers.com](http://www.stadiumbleachers.com).
  - 3. GT Grandstands: [www.gtgrandstands.com](http://www.gtgrandstands.com).
  - 4. STURDISTEEL: [www.sturdisteel.com](http://www.sturdisteel.com).
  - 5. Substitutions: See Section 01 6000 - Product Requirements.

### **202 SYSTEM PERFORMANCE REQUIREMENTS**

- A. General: Provide a complete system of mutually dependent components and assemblies that form a grandstand system. The grandstand shall be designed to conform to structural and other load requirements, thermally induced movement, and exposure to weather without failure. All primary and secondary framing, decking system, seating, handrails /guardrails, ramps and accessories shall comply with the requirements indicated, including those in this Article. Foundations, Structure and Reinforcement to be designed and installed to meet local Codes and ICC-300 requirements.
- B. Structural Performance: Provide grandstand system capable of withstanding the effects of gravity loads and the following loads and stresses within limits and under conditions indicated:
  - 1. Design Loads / Structural - Framing Members:
    - a. Dead Loading: 6 PSF for understructure
    - b. Live Loads: 100 PSF for understructure
    - c. Deflection Limits: engineer assemblies to withstand design loads with deflections no greater than the following:
      - 1) Stringers: vertical deflection of L/240.
  - 2. Design Loads / Decking System:
    - a. Dead Loading: 6 PSF for decking, platforms, stairs and ramps.
    - b. Live Loads: 100 PSF for decking, platforms, stairs and ramps.
    - c. Deflection Limits: engineer assemblies to withstand design loads with deflections no greater than the following:
      - 1) Decking, platforms, stairs and ramps: vertical deflection of L/360.
    - d. Sway loads of 24 PLF per row parallel to seat and 10 PLF per row perpendicular to seat run.
  - 3. Design Loads / Handrail / Guardrail:
    - a. 100 PLF Vertical.
    - b. 50 PLF applied in any direction at the top.
    - c. 200 LB Concentrated load any direction.
    - d. 50 PSF Fencing and guardrail infill.
  - 4. Design Loads / Seat Boards:
    - a. Live loads: (vertical) 120 pounds per lineal foot.

### **203 CONCRETE FOUNDATIONS**

- A. Foundations shall be designed in accordance with mix designs per Section 03 3000- Cast-in-Place Concrete.
- B. Foundations shall be based on a subsurface exploration report furnished by the Architect/Owner.

- C. Foundations, Structure and Reinforcement to be designed and installed to meet local Codes and ICC 300 Requirements.

**204 STRUCTURAL - FRAMING MEMEBERS**

- A. Structural-Steel Shapes: ASTM A992/A992M tensile yield strength, 345 MPa (Fy = 50 ksi); tensile ultimate strength, 450 MPa (Fu = 65 ksi)
- B. Steel Plate, Bar or Strip: ASTM A36/A36M.
- C. Steel Tubing or Pipe: ASTM A500/A500M, Grade B.
- D. Bolts, Nuts and Washers: ASTM A307 hex carbon and alloy steel bolts, nuts, and washers.
- E. Anchor Rods, Bolts, Nuts and Washers: As follows:
  - 1. Headed Bolts: ASTM A307, Grade A carbon -steel, hex-head bolts; and carbon-steel nuts.
- F. Finish: Minimum 2 oz. hot dipped galvanized in accordance with ASTM A123/A123M with minimum thickness of 3.3 mils.
- G. Horizontal Beams: Horizontal beams shall be wide flange units, supported on columns as required to transfer stadium loads to foundations.
- H. Vertical Columns: Columns shall be of structural square tube. Use of wide flange beams for columns is prohibited.
- I. Bracing: All transverse bays shall be free of cross bracing. Longitudinal bays shall be braced in alternate bays where possible. All bracing shall be 7/8" rod and shall be double-nutted at connection points through the columns.
- J. Stringers: Stringers shall be wide flange material with welded angle riser and tread supports.

**205 DECKING SYSTEM:**

- A. Decking System Platforms
  - 1. Decking system platforms shall be an all-aluminum extruded system attached to the understructure by means of concealed aluminum clips, galvanized bolts, washers and nuts. The rear portion of the platform will turn ninety degrees vertical to accept the next row of decking platforms. The front portion of the platform shall be complete with a female front edge to allow for a positive male / female connection of a vertical riser. Individual aluminum components shall be joined by means of the metal inert gas process. The attachment of the riser to the platforms shall form a structurally integrated system.
  - 2. Individual platforms shall be tread depth x 37'-6" maximum length with the actual length designed to create the minimum number of expansion seams.
  - 3. Platform shall have a minimum aluminum wall thickness of .078" and aluminum shall be alloy 6063-T6.
  - 4. Walking surface shall be fluted high traction and aesthetically pleasing without showing traffic pattern wear.
  - 5. The platforms shall have integral bolt runners to allow for the attachment of seat supports, aisle steps and aisle handrails to be made without penetrating the decking system. Through bolting is prohibited. After installation of the above components, there shall be a full closure of the bolt runner using an aluminum cover strip. Open portions of the bolt runner are prohibited.
  - 6. Deck shall allow for reconfiguration of seating and aisles without alteration of the understructure.
  - 7. At locations where platforms meet end to end a four-inch wide aluminum threshold shall be provided to cover the walking surface. Threshold shall be beveled on both sides so as not to create a trip hazard and must have a fluted surface to prevent slipping. Threshold shall be integrated with front and rear covers for the platforms that conceal transition from the horizontal to the vertical portions of the deck. Threshold must comply with specified deflection criteria and once installed must allow for expansion and contraction.
- B. Decking System Riser

1. The decking system riser at aisles shall be extruded aluminum; alloy 6063-T6 with a powder-coated finish – Color Selection by Architect.
  2. This extrusion shall have a male ridge running continuous at the upper leading edge to interlock with the front portion of the decking system panel.
  3. The riser shall be structurally connected to the decking system panel every 12" longitudinal with ¼" diameter structural grade rivet.
  4. There shall be no gaps or cavities between the riser portion of the decking system and any supports or attachments.
  5. Max 3" offset from finish grade or finish floor whichever is adjacent.
- C. Decking System Seat Supports
1. The decking system seat support shall be of extruded aluminum angle. 2-1/2" x 2" x 3/16", alloy 6061T6, mill finish.
  2. Once installed the seat support shall have no noticeable gaps between the decking system riser and support.
- D. Decking System Aisle Handrails
1. The decking system aisle handrails shall be 1-5/8" schedule 40 anodized aluminum pipe and riser mounted. Flange deck mounted is unacceptable.
  2. Handrails shall have a center line handrail and the spacing between rails shall not be less than 22" or more than 36". Handrails shall be discontinuous and shall not span more than five rows of seating.
- E. Egress Stairs
1. The decking system egress stair stringers are to be constructed of 8" aluminum channel, alloy 6061-T6. Tread supports to be welded to 8" member to totally cap the end of the 2" x 12" stair tread against the channel web.
  2. Walking surface of tread shall be complete with female front edge to allow for positive male / female connection of the riser closure. All risers shall be powder coated and fastened to the rear tail of the stair tread with ¼" diameter structural grade aluminum rivets.
  3. Stair treads nosing to be anodized black. Nosing shall have no external fasteners. The leading edge of the step tread shall project ½" past the front of the vertical riser.
    - a.
  4. Stair grab rail to be constructed of 1-5/8" schedule 40 anodized aluminum pipe with no fittings at transition from sloped system to grade.
- F. Decking System Hardware
1. All bolts, washers and nuts shall be galvanized.
  2. End caps shall be of a heavy duty, clamping, aluminum channel design fastened to the ends of extrusions with aluminum rivets. End caps shall close all end openings of extrusions and shall be a full-length piece and match in both color and finish the extrusion to which they attach.
  3. All riser fasteners shall be structural ¼" diameter structural grade rivet.

## 206 SEATING

- A. Bench Seating
1. Seats shall be of extruded aluminum with a fluted surface, alloy 6063-T6, with 204R1 anodized clear finish
  2. Plank shall be 2" by 10" nominal with a wall thickness of .078" (+ / -.006" industry tolerance) at the smooth surface.
  3. Finish size shall be 1-3/4" by 9-1/2"
  4. Seats shall attach to the decking system seat supports by means of concealed aluminum clips, galvanized bolts, washers and nuts.
  5. End caps shall be of extruded aluminum and shall match in both color and finish the plank to which they attach. All end caps shall be single piece and shall attach to the underside of the plank with a minimum of two aluminum rivets.

6. Manufacturer's Continuous backrest to be installed at specific bench locations. Manufacturer to provide backrest with equivalent standards for finish and attachment to that of the bench installation. See plans for locations and manufacturer to use continuous manufacturer backrest.
- B. Interkal Aura Chairs (minimum 32" tread depth required).
  1. Chairs shall be designed to allow the seat pan to flip up allowing for the specified clear aisle access way. Aisle access way shall be measured with the chair unoccupied.
  2. Seat portion of chair shall be gravity activated with an internal quieting bumper.
  3. Stanchions shall be an integral part of the grandstand system.
  4. Seat back and pan shall be the only installation required in the field.
  5. Seat pan and back shall be blow molded plastic with color throughout. Color shall be selected by the Architect and submitted for approval prior to install.

## **207 HANDRAILS / GUARDRAILS**

- A. Handrail / Guardrail System
  1. All railing shall consist of 1-5/8" schedule 40 anodized pipe.
  2. All pipe fittings shall be of cast aluminum.
  3. Guardrail supports to be 4" aluminum channel, alloy 6061-T6.
  4. Rail pipe shall be secured to the guardrail support by means of galvanized tension bands.
  5. The top rail shall be 42" minimum above the nearest seat on the sides and rear, and 42" above the tread on the front walkway.
  6. Handrails on stairs shall be 34" above the leading most edge of the stair tread.
  7. A black vinyl coated chain link fence shall be provided on the front, sides and rear of the grandstand and at all egress areas.
  8. Handrails shall be provided at all walking areas and shall extend 1-1/2" from guardrail material. Standoff shall be extruded aluminum, alloy 6061-T6
  9. Handrails shall have internal sleeves for splice purposes and finished rail shall be continuous and shall not exceed 1-5/8" diameter.

## **PART 3 - EXECUTION**

### **301 EXAMINATION**

- A. Before erection proceeds, certified grandstand installer will survey elevations and locations of concrete foundations or pads and anchor bolts to verify compliance with the requirements of grandstand manufacturers' tolerances.

### **302 ERECTION**

- A. Erect grandstand system according to manufacturer's written instructions and erection drawings.
- B. Do not field cut, drill or alter structural members without written approval from grandstand system manufacturer's professional engineer.
- C. Set structural framing in locations to elevations indicated according to AISC specifications referenced in the specification.

### **303 CLEANING AND PROTECTION**

- A. Clean all metal surfaces promptly after installation of work.
- B. Exercise care to avoid damage to protective coatings and finishes.
- C. Remove all excess construction material and dispose of all debris.
- D. Protect installed construction until Date of Substantial Completion.
- E. Protect installed structure from damage or deterioration until Date of Substantial Completion.
- F. Repair or replace damaged elements before Date of Substantial Completion.

**END OF SECTION**

CODE SUMMARY

APPLICABLE CODES

2018 (IBC) INTERNATIONAL BUILDING CODE
2018 (IECC) INTERNATIONAL ENERGY CONSERVATION CODE
2018 (IPC) INTERNATIONAL PLUMBING CODE
2018 (IMC) INTERNATIONAL MECHANICAL CODE
2017 (NEC) NATIONAL ELECTRICAL CODE
2018 (IFC) INTERNATIONAL FIRE CODE
2013 NATIONAL FIRE ALARM AND SIGNALING CODE (NFPA 72)
ANSI/ASHRAE/IESNA STANDARD 90.1-2013 ENERGY STANDARD FOR BUILDINGS EXCEPT LOW-RISE RESIDENTIAL
ANSI A117.1 - 2018 ACCESSIBLE AND USABLE BUILDINGS
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
ICC 300 STANDARD ON BLEACHERS, FOLDING AND TELESCOPIC SEATING AND GRANDSTANDS

PROJECT PROPERTIES

PREMISE - THIS PROJECT WILL RENOVATE THE EXISTING ORANGE BEACH SPORTSPLEX BASEBALL AND SOFTBALL FIELDS WITH TWO NEW GRANDSTANDS AND PRE-ENGINEERED BATTING CAGE BUILDING.
BUILDING - GC WILL DEMOLISH A PORTION OF THE EXISTING BASEBALL AND SOFTBALL FIELDS AND SEATING AREA TO MAKE ROOM FOR 2 NEW PRE-ENGINEERED GRANDSTANDS AND PRESS BOXES.
SITE - WILL INCLUDE SELECTIVE DEMOLITION OF THE EXISTING SITE SPECIFICALLY AROUND THE SEATING AREA BETWEEN THE TWO DOUGITS. THERE WILL BE MINIMAL ADJUSTING TO SURROUNDING GRADE.

ALL CODE SECTIONS CITED IN THE FOLLOWING ANALYSIS WILL BE BASED ON THE IBC UNLESS NOTED OTHERWISE.

Table with 2 columns: OCCUPANCY CLASSIFICATION and USE CLASSIFICATION. Rows include New Baseball Grandstand and Press Box, New Softball Grandstand and Press Box, and New Pre-Engineered Batting Cage Building.

Table with 2 columns: CONSTRUCTION TYPE and CONSTRUCTION MATERIALS REQUIREMENTS. Rows include New Baseball Grandstand and Press Box and New Softball Grandstand and Press Box.

Table with 2 columns: CONSTRUCTION TYPE and CONSTRUCTION MATERIALS REQUIREMENTS. Rows include New Pre-Engineered Batting Cage Building.

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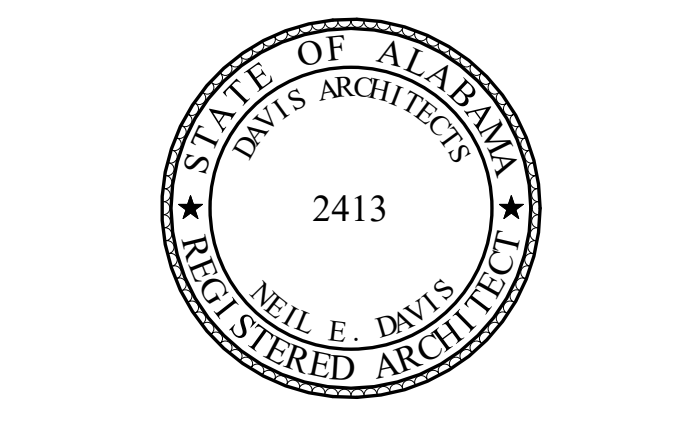
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ORANGE BEACH SPORTSPLEX RENOVATION TO BASEBALL AND SOFTBALL COMPLEX



CITY OF ORANGE BEACH ; ORANGE BEACH, ALABAMA

DAVIS

OWNER: CITY OF ORANGE BEACH, PO BOX 458, ORANGE BEACH, ALABAMA 36561. ASSOCIATE ARCHITECT: MCCOLLOUGH ARCHITECTURE.

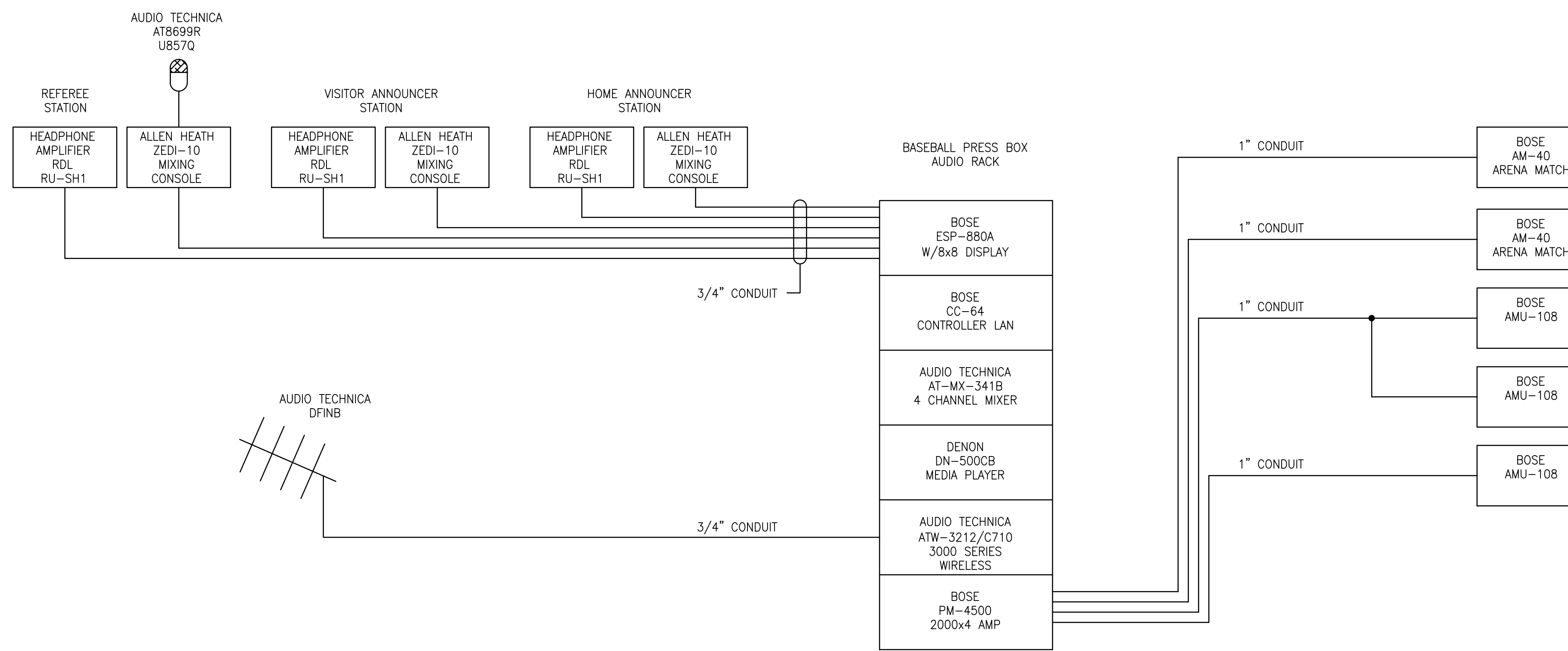
ARCHITECT: DAVIS ARCHITECTS, INC., 120 23RD STREET SOUTH, BIRMINGHAM, AL 35233. CIVIL ENGINEER: SAWGRASS CONSULTING, LLC. STRUCTURAL ENGINEER: MBA ENGINEERS.

MECHANICAL / PLUMBING ENGINEER: GULF STATES ENGINEERING. ELECTRICAL ENGINEER: GULF STATES ENGINEERING.

Table with 2 columns: REV and DESCRIPTION. Includes revision history and drawing information like DATE, PROJECT NO, SHEET TITLE, and DRAWING NO.

LS001





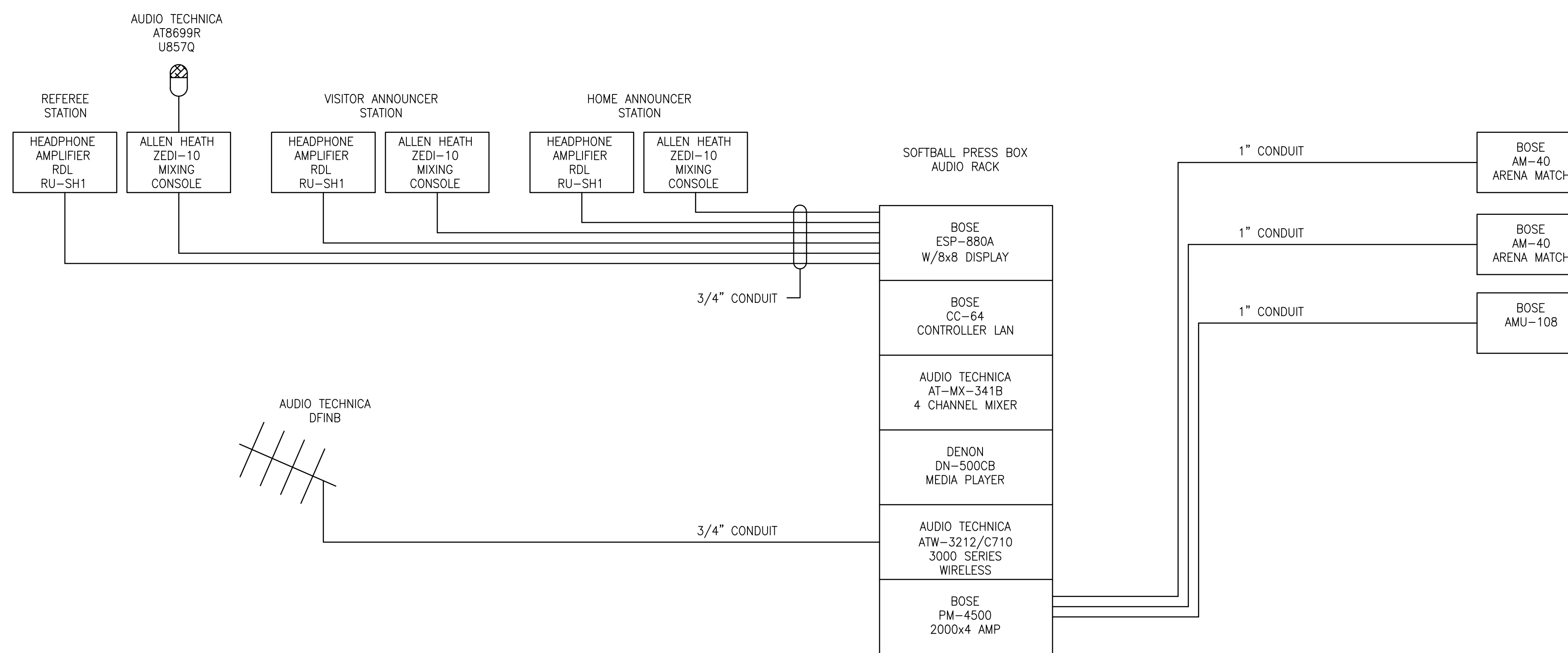
**BASEBALL FIELD 2 NOTES:**

- CONTRACTOR TO PROVIDE ALL SPEAKER MOUNTING HARDWARE AND BE APPROVED BY ARCHITECT AND ENGINEER PRIOR TO INSTALLATION.
- MOUNT ALL EQUIPMENT IN LOWELL EQUIPMENT RACK 27" DEEP HEIGHT AS REQUIRED.
- BOSE CONTROL PANEL TO BE PANEL MOUNTED IN RACK.
- HEADPHONE MODULES MOUNTED UNDER ANNOUNCERS COUNTER.
- INPUT JACKS TO BE LOCATED IN COUNTER MOUNTED BOXES, ON COUNTER SURFACE (FSR RT6-R2-ABK) WITH F-XLR AND RJ45 AND BLANK PANELS AS REQUIRED.
- AUDIO EQUIPMENT POWER DISTRIBUTION TO BE RFPower MIW-XT.
- PROVIDE PANAMAX MR-4300 POWER PROTECTION.
- PROVIDE HEADPHONE DISTRIBUTION AND CONTROL WITH RDL HEADPHONE AMP WITH VOLUME CONTROL.

**AUDIO SYSTEM NOTES:**

- ALL CONDUIT TO BE INSTALLED BY E.C. ALL CABLING INSTALLED BY AUDIO CONTRACTOR.
- ALL EQUIPMENT TO BE AS SPECIFIED.
- ALL SPEAKER MOUNTING HARDWARE TO BE PROVIDED AND INSTALLED BY THE E.C. AND APPROVED BY ARCHITECT AND ENGINEER.
- CONTRACTOR SHALL INSTALL EACH LOUDSPEAKER WITH PROPER RESTRAINING SYSTEM AS SPECIFIED BY LOCAL AND STATE MANDATED LAWS.
- SPEAKER LOCATIONS SHOWN ARE APPROXIMATE. COORDINATE SPEAKER LOCATIONS WITH OTHER CEILING DEVICES. ENSURE THAT FINAL SPEAKER LOCATIONS MEET THE SOUND REINFORCEMENT INTENT FOR THE TARGET AREA.
- COORDINATE WITH AUDIO VISUAL CONTRACTOR TO FINALIZE ALL STRUCTURAL SUPPORT REQUIREMENTS AND LOCATIONS FOR DISPLAYS, PROJECTORS AND PROJECTION SCREENS PRIOR TO SUPPORT ROUGH-IN.

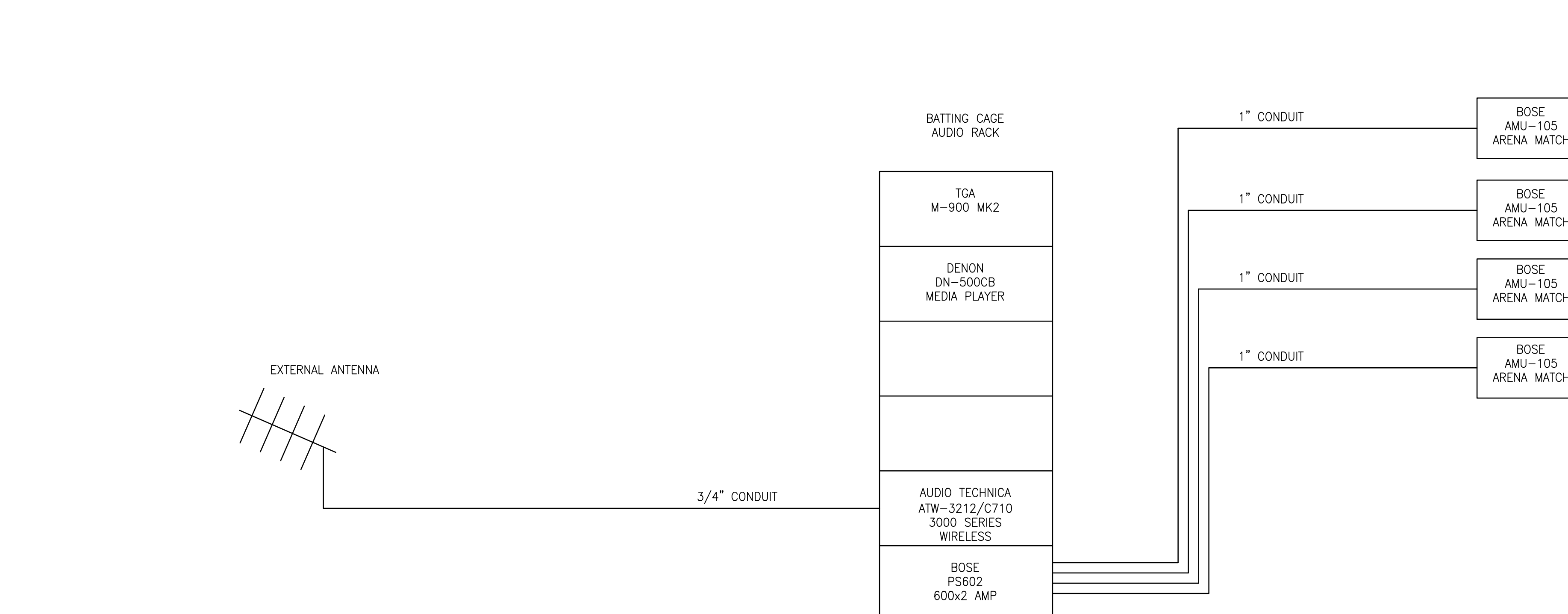
**BASEBALL FIELD 2 AUDIO RISER DIAGRAM**



**SOFTBALL FIELD 3 NOTES:**

- CONTRACTOR TO PROVIDE ALL SPEAKER MOUNTING HARDWARE AND BE APPROVED BY ARCHITECT AND ENGINEER PRIOR TO INSTALLATION.
- MOUNT ALL EQUIPMENT IN LOWELL EQUIPMENT RACK 27" DEEP HEIGHT AS REQUIRED.
- BOSE CONTROL PANEL TO BE PANEL MOUNTED IN RACK.
- HEADPHONE MODULES MOUNTED UNDER ANNOUNCERS COUNTER.
- INPUT JACKS TO BE LOCATED IN COUNTER MOUNTED BOXES, ON COUNTER SURFACE (FSR RT6-R2-ABK) WITH F-XLR AND RJ45 AND BLANK PANELS AS REQUIRED.
- AUDIO EQUIPMENT POWER DISTRIBUTION TO BE RFPower MIW-XT.
- PROVIDE PANAMAX MR-4300 POWER PROTECTION.
- PROVIDE HEADPHONE DISTRIBUTION AND CONTROL WITH RDL HEADPHONE AMP WITH VOLUME CONTROL.

**SOFTBALL FIELD 3 AUDIO RISER DIAGRAM**



**BATTING CAGE NOTES:**

- CONTRACTOR TO PROVIDE ALL SPEAKER MOUNTING HARDWARE AND BE APPROVED BY ARCHITECT AND ENGINEER PRIOR TO INSTALLATION.
- MOUNT ALL EQUIPMENT IN USE LOWELL SWING OUT, WALL MOUNTED EQUIPMENT RACK LWR-1019.
- OMITTED.
- PROVIDE PANAMAX MR-4300 POWER PROTECTION.



**ORANGE BEACH SPORTSPLEX RENOVATION TO BASEBALL AND SOFTBALL COMPLEX**



CITY OF ORANGE BEACH ;  
ORANGE BEACH, ALABAMA

**DAVIS**

**OWNER**  
CITY OF ORANGE BEACH  
PO BOX 458  
ORANGE BEACH, ALABAMA 36561  
251-981-69792  
ATTN: KEN GRIMES, JR.

**ASSOCIATE ARCHITECT**  
MCCOLLOUGH ARCHITECTURE  
4790 MAIN ST #209  
ORANGE BEACH, AL 36561  
251-968-7222  
ATTN: STED MCCOLLOUGH

**ARCHITECT**  
DAVIS ARCHITECTS, INC.  
132 29RD STREET SOUTH  
BIRMINGHAM, AL 35233  
205-322-7482  
ATTN: JIM HARTSELL / JEFFREY MENASCO

**CIVIL ENGINEER**  
SAWGRASS CONSULTING, LLC  
11443 OLD HIGHWAY 31  
SPANISH FORT, AL 36527  
251-544-7900  
ATTN: ERIC E. GODWIN / DOUG CHAFFIN

**STRUCTURAL ENGINEER**  
MBA ENGINEERS  
300 20TH ST, N, SUITE 100  
BIRMINGHAM, AL 35203  
205-323-6386  
ATTN: KEITH OWENS / MARK BOGER

**MECHANICAL / PLUMBING ENGINEER**  
GULF STATES ENGINEERING  
600 AZALEA ROAD,  
MOBILE, AL 36609  
251-460-4646  
ATTN: CHRIS DEARMON / VAN SIMPSON

**ELECTRICAL ENGINEER**  
GULF STATES ENGINEERING  
600 AZALEA ROAD,  
MOBILE, AL 36609  
251-460-4646  
ATTN: JERRY ONWU / SID SNYDER

REV	DATE	DESCRIPTION
1	06-18-2020	ADDENDUM #2

DATE: 05-04-2020

PERCENT: 100% BID DOCUMENTS

PROJECT NO: 3916

PROJECT NO: 3916

SHEET TITLE: AUDIO RISER DIAGRAM

DRAWING NO: E500

E500 AUDIO RISER DIAGRAM

E1 / SCALE: NONE

E500