



ANDALUSIA CITY HALL

CITY OF ANDALUSIA

EARL V. JOHNSON, MAYOR
JOHN M. THOMPSON, CITY ADMINISTRATOR

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BID INVITATION #01122023

The City of Andalusia will accept sealed bids for one new vehicle for the Recreation Department, per the attached specifications, until 11:00 a.m., January 12, 2023, at the Office of the City Clerk, 505 East Three Notch Street, P.O. Box 429, Andalusia, Alabama 36420. Please mark your envelope as "Bid for Johnson Park Batting Cages."

The bidder must respond to all aspects of the attached specifications. The bidder must identify if the bid unit meets, exceeds, or does not comply with the minimum specifications. This must accompany the bid for each line item in the specifications and be included and returned as a part of your bid. The City will not consider any bid that does not have the bidder's response to the specifications appropriately completed. All prices included in this bid will be FOB Andalusia, Alabama. The City of Andalusia reserves the right to reject any or all bids.

THE CITY OF ANDALUSIA, ALABAMA

By: [Signature]
John M. Thompson, City Clerk/Treasurer

Company Bidding: _____

Bidder's Signature & Date: _____

Price: \$ _____

Specify Delivery Date: _____

Specify Warranty Information: _____

Parts and Service Operations: _____
((Use Additional Sheet if Necessary))

PRE-ENGINEERED FABRIC SHADE STRUCTURES

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General Conditions and Division 1 Specification Sections, apply to this section.

1.2 SUMMARY

- A. A single fabric shade structure contractor shall be responsible for the design, wet-stamped engineering drawings, permitting, fabrication, supply, and erection of the work specified herein, including foundations. The intent of this specification is to have only one shade contractor be responsible for all of the functions listed above.

1.3 SUBSTITUTIONS

- A. To qualify as an approved equal, please submit the following manufacturer, installer and product documentation at least ten days prior to the bid:
 - a. 2 full sets of fabric samples or color charts.
 - b. Detailed material and performance specifications for ALL fabric, steel, hardware and cables used in shade structure.
 - c. Provide color charts of steel colors.
 - d. List of at least 5 reference sites within 100 miles of bid location.
 - e. List of at least 5 customer references within 100 miles of bid location.
 - f. Proof of compliance with all quality assurance criteria, as per Section 1.5
 - g. Full set of wet stamped or electronic stamped (by an engineer in the state of Alabama) engineering drawings for the proposed structures.
 - h. Proof of installation competency and/or certification for type and size of structure specified.
 - i. List of any and all deviations from product specifications in section 2.1.
- B. No substitutions will be allowed after the deadline. Any approval of alternate manufacturers and structures shall be by addendum prior to the bid date and shall not be allowed without written notification.

1.4 SUBMITTALS

1.4.1 With Bid Submittals:

- A. Provide proof of existing reference sites with structures of similar project scope and scale.
- B. Provide a minimum of 18 fabric samples to demonstrate fabric color range, and a digital (PDF) or paper document showing a minimum of 9 powder coat color choices. Also, provide a letter of authorization from the fabric manufacturer delineating authorized use of the specified fabric.
- C. Manufacturer to provide proof of all quality assurance items, including;

1. A list of at least 5 reference projects in REGION that have been installed a minimum of 12 years.
2. Proof of General Liability, Professional Liability, and Umbrella insurance, as per Section 1.5D.
3. Proof of a minimum of \$15,000,000 aggregate bonding capacity.
4. Proof of current IAS certification, as per Section 1.5E.
5. Proof of an Annual Maintenance Inspection Program.
6. Proof of a Corporate Safety and/or Injury & Illness Prevention Program.

1.5 QUALITY ASSURANCE

Fabrication and erection are limited to firms with proven specific area experience in the design, fabrication, and erection of fabric shade structures, and such firms shall meet the following minimum requirements. No substitutions shall be allowed for the following:

- A. A single shade structure contractor shall design, engineer, manufacture, and erect the fabric shade structures, including the foundations, and shall provide a dedicated Project Manager throughout the entire Scope of Work related to the shade structure(s).
- B. All manufacturers shall have at least 15 years experience in the design, engineering, manufacture, and erection of fabric shade structures, engineered to IBC (or other approved code) requirements with similar scope, and a successful construction record of in-service performance.
- C. All manufacturers shall provide proof with bid submittal of a minimum of \$2,000,000 (ag) General/Public Liability insurance, \$3,000,000 Professional Liability (PL) insurance, and additional \$10,000,000 Umbrella/Excess Liability insurance.
- D. Manufacturer shall be accredited by the IAS (International Accreditation Service) for Structural Steel Fabrication under IBC 2006 Section 1704.2.5.2.
- E. The fabric shade structure contractor shall have a Corporate Quality Control program/manual which describes their complete quality assurance program.
- F. All manufacturers must be a current Member Contractor with ISNetworld, which confirms the bidder's strict adherence to Safety, Insurance, Quality, and Regulatory standards.

1.6 WARRANTY

- A. The successful installer shall provide a 12-month warranty on all installation labor and materials.
- B. A supplemental warranty from the manufacturer shall be provided for a period of 10 years (pro-rated) on fabric and 10 years (non-prorated) on the structural integrity of the steel, from date of shade invoice.

- C. The warranty shall not deprive the Owner of other rights the Owner may have under the provisions of the Contract Documents, and will be in addition to and run concurrent with other warranties made by the Contractor under requirements of the Contract Documents.

PART 2 – PRODUCTS

2.1 GENERAL

- A. The structure shall consist of a 60'x60' Multi-level Custom Pyramid with 14' entry height.
- B. The structures shall be manufactured by Shade Structures, Inc., d/b/a USA SHADE or approved equal. All substitutions must be approved prior to bid date.
- C. Contact:
USA Shade
2580 Esters Blvd.
Suite 100
DFW Airport, TX 75261
Attn: Angel Rich (954) 649-6757
Angel.rich@usa-shade.com
- Giffen Recreation, Inc.
115-D Hiltop Business Ctr Dr.
Pelham, AL 35124
Attn: Tom Millard (205) 982-6233 tom@giffenrec.net
- D. The fabric shade structure(s) shall conform to the current adopted version of the International Building Code 2012 (or newer).
- E. All fabric shade structures shall be designed and engineered to meet the minimum of 115mph "Ultimate" Wind Load, Risk Category II, Exposure C, and a Snow Load of 5 psf and Live Load of 5 psf. All fabric shade structures shall be engineered with a zero wind pass-through factor on the fabric.
- F. Steel:
1. All steel members of the fabric shade structure shall be designed in strict accordance with the requirements of the "American Institute of Steel Construction" (AISC) Specifications and the "American Iron and Steel Institute" (AISI) Specifications for Cold-Formed Members and manufactured in a IAS- (International Accreditation Service) accredited facility for Structural Steel Fabrication under IBC 2006 Section 1704.2.5.2.
 2. All connections shall have a maximum internal sleeving tolerance of .0625" using high-tensile strength steel sections with a minimum sleeve length of 6".
 3. All non-hollow structural steel members shall comply to ASTM A-36. All hollow structural steel members shall be cold-formed, high-strength steel and comply with ASTM A-500-10, Grade B. All steel plates shall comply with ASTM A-572, Grade 50.
 4. All galvanized steel tubing shall be triple-coated for rust protection using an in-line electroplating coat process. All galvanized steel tubing shall be internally coated with zinc and organic coatings to prevent corrosion.

G. Bolts:

1. All structural field connections of the shade structure shall be designed and made with high-strength bolted connections using ASTM A-325, Grade B.
2. Where applicable, all stainless steel bolts shall comply with ASTM F-593, Alloy Group 1 or 2. All bolt fittings shall include rubber washers for water-tight seal at the joints. All nuts shall comply with ASTM F-594, Alloy Group 1 or 2.

H. Welding:

1. All shop-welded connections of the fabric shade structure shall be designed and performed in strict accordance with the requirements of the "American Welding Society" (AWS) Specifications. Structural welds shall be made in compliance with the requirements of the "pre-qualified" welded joints, where applicable and by certified welders. No onsite or field welding shall be permitted.
2. All full penetration welds shall be continuously inspected by an independent inspection agency and shall be tested to the requirement of IBC 2012 (or newer).

I. Powder Coating:

1. Galvanized steel tubing preparation prior to powder coating shall be executed in accordance with solvent cleaning SSPC-SP1. Solvents such as water, mineral spirits, xylol, and toluol, which are to be used to remove foreign matter from the surface. A mechanical method prior to solvent cleaning, and prior to surface preparation, shall be executed according to Power Tool Cleaning SSPC-SP3, utilizing wire brushes, abrasive wheels, needle gun, etc.
2. Carbon structural steel tubing preparation prior to powder coating shall be executed in accordance with commercial blast cleaning SSPC-SP6 or NACE #3. A commercial blast cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, mill scale, rust, coating, oxides, corrosion, and other foreign material.
3. Powder coating shall be sufficiently applied (minimum 3 mils thickness) and cured at the recommended temperature to provide proper adhesion and stability to meet salt spray and adhesion tests, as defined by the American Society of Testing Materials.
4. Raw powder used in the powder coat process shall have the following characteristics:
 - a. Specific gravity: 1.68 +/- 0.05
 - b. Theoretical coverage: 114 +/- 4ft²/mil
 - c. Mass loss during cure: <1%
 - d. Maximum storage temperature: 80°F
 - e. Interpon® 800 is a high-durability TGIC powder coating designed for exterior exposure. Tested against the most severe specifications, Interpon 800 gives significantly improved gloss retention and resistance to color change.
5. When the fabric shade structure(s) will be located within potentially corrosive environments such as (pools, reclaimed water irrigation, saltwater bodies, other standing bodies of water) hot dip galvanizing of Carbon steel or rust protection undercoat primer will be required on all structures at USA Shade's discretion. The rust protection primer shall be Sherwin-Williams® POWDURA® epoxy powder coating Z.R Primer and shall be applied to Carbon steel in accordance with the

manufacturer's specifications. Primer should be fused only and then top coated with the selected powder coat to ensure proper inter-coat adhesion.

a. The primer's attributes shall be:

a. Specific gravity (g/ml):	2.37
b. Coverage at 1.0 mil (ft ² /lb):	81.6
c. Adhesion: ASTM D-3359	5B
d. Flexibility: ASTM D-552	Pass 1/8"
e. Pencil hardness: ASTM D-3363	H-2H
f. Impact resistance (in.lb): ASTM D-2794	Dir & Rev, 120 in-lbs
g. Salt spray resistance: ASTM B-117	2000 hours
h. Humidity resistance: ASTM D-4585	2000 hours
i. 60° Gloss: ASTM D-523	50 ~ 70
j. Cure schedule (metal temp):	10min @ 200°C (390°F) 25min @ 135°C (275°F)
k. Film thickness range (mils):	2.0 ~ 3.0

J. Tension Cable: Steel wire rope cable is determined based on calculated engineering loads. Standard cabling is galvanized. Stainless steel cabling required when hot dip galvanized frame or primer frame are required.

1. 0.25" (nominal) galvanized 7x19 strand core wire rope shall be used for tension loads up to 4,500 lbs.
2. 0.375" (nominal) galvanized 7x19 strand core wire rope shall be used for tension loads up to 9,000 lbs.
3. 0.5" (nominal) galvanized 6x19 strand core wire rope shall be used for tension loads up to 13,500 lbs.

K. Fabric Roof Systems:

1. UV Shade Fabric:

- a. Shadesure® shade fabric is made of a UV-stabilized, high-density polyethylene (HDPE), as manufactured by Multiknit® (Pty) Ltd. HDPE mesh shall be a heat-stentered, three-bar Rachel-knitted, lockstitch fabric with one monofilament and two tape yarns to ensure that the material will not unravel if cut. Raw fabric rolls shall be 9.8425 feet wide.
- b. Fabric Properties:
 - ~ Life Expectancy: minimum 8 years with continuous exposure to the sun
 - ~ Fading: minimum fading after 5 years (3 years for Red)
 - ~ Fabric Mass: 5.31 oz/yd² ~ 5.6 oz/yd² (180gsm ~ 190gsm)
 - ~ Fabric Width: 9.8425 feet (3m)
 - ~ Roll Length: 164.04 feet (50m)
 - ~ Roll Dimensions: 62.99 inches x 16.5354 inches (160cm x 42cm)
 - ~ Roll Weight +/- 66 lbs (+/- 30kg)
 - ~ Minimum Temp: -13°F (-25°C)
 - ~ Maximum Temp: +176°F (80°C)
- c. Fabric shall meet the following flame spread and fire propagation tests:
 - 1) ASTM E-84
 - 2) NFPA 701 Test Method 2

2. Stitching & Thread:

- a. All sewing seams are to be double-stitched.
 - b. The thread shall be GORE® TENARA® mildew-resistant sewing thread, manufactured from 100% expanded PTFE (Teflon™). Thread shall meet or exceed the following:
 - 1) Flexible temperature range
 - 2) Very low shrinkage factor
 - 3) Extremely high strength, durable in outdoor climates
 - 4) Resists flex and abrasion of fabric
 - 5) Unaffected by cleaning agents, acid rain, mildew, salt water, and is unaffected by most industrial pollutants
 - 6) Treated for prolonged exposure to the sun
 - 7) Rot resistant
3. Shade and UV Factors:
- a. Shade protection and UV screen protection factors shall be as follows:

<u>Color</u>	<u>Shade %</u>	<u>UV Block %</u>
Laguna Blue	92%	96%
Royal Blue	86%	94%
Navy Blue	90%	94%
Turquoise	83%	92%
Rainforest	89%	96%
Desert Sand	80%	92%
Black	95%	96%
Sunflower Yellow	70%	94%
Terracotta	84%	90%
Arizona	86%	91%
White	57%	86%
Silver	88%	93%
Red	91%	92%
Electric Purple	84%	90%
Zesty Lime	83%	92%
Cinnamon	88%	93%
Olive	93%	97%
Chocolate	92%	93%

PART 3 – EXECUTION

3.1 INSTALLATION

- A. The installation of fabric shade structures shall be performed by manufacturer or manufacturer-approved contractor. All installation personnel must have experience in the erection of tensioned fabric structures.
- B. The installation shall comply with the manufacturer's instructions for assembly, installation, and erection, per approved drawings.
- C. Concrete:
 - 1. Unless noted otherwise for footings and piers by the Project Engineer, the concrete specification for footings, piers, slabs, curbs, and walkways shall meet a minimum 2,500 psi at 28-day strength.

2. Concrete work shall be executed in accordance with the latest edition of American Concrete Building Code ACI 318-14.
3. Concrete specifications shall comply in accordance with the Section 03300 Cast-inPlace Concrete, detailed as per plans, and shall be as follows:
 - a. 28 Days Strength $F'_c = 2,500$ psi
 - b. Aggregate: HR
 - c. Slump: 3 ~ 5 inch
 - d. Portland Cement shall conform to C-150
 - e. Aggregate shall conform to ASTM C-33
4. All reinforcement shall conform to ASTM A-615 grade 60.
5. Reinforcing steel shall be detailed, fabricated, and placed in accordance with the latest ACI Detailing Manual and Manual of Standard Practice.
6. Whenever daily ambient temperatures are below 80 degrees Fahrenheit, the contractor may have mix accelerators and hot water added at the batch plant (See Table 1).
7. The contractor shall not pour any concrete when the daily ambient temperature is to be below 55 degrees Fahrenheit.

TABLE 1

Temperature Range	% Accelerator	Type Accelerator
75~80 degrees F	1%	High Early (non calcium)
70~75 degrees F	2%	High Early (non calcium)
Below 70 degrees F	3%	High Early (non calcium)

D. Foundations:

1. All anchor bolts set in new concrete shall comply with ASTM F1554 GR 55.
2. All anchor bolts shall be Hot-Dip Galvanized.
3. Footings and full rebar cages shall be drilled or dug, set, and poured as per the manufacturer's specifications. Final footing size to be determined by USA Shade engineering.