



Department of Administrative Services

Purchasing and Contracts

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CLARK COUNTY, NEVADA BID NO. 603523-14 LONE MOUNTAIN PARK PHASE V: EQUESTRIAN PARK AND TRAIL

January 6, 2015

ADDENDUM NO. 4

INVITATION TO BID

1. The bid opening date of January 9, 2015 at 2:15:00 p.m. **remains unchanged.**

CLARIFICATIONS:

QUESTION:

2. The Drawings call out for the Horse Arena to be a NUCOR Pre-engineered Building. The Specifications Section 13 34 23 (See attached with Markups) have numerous errors and clarifications needed.

RESPONSE:

- A. Bidders shall **replace** original Specification Section 13 34 23 FABRICATED METAL SHELTERS and replace with **attached revised Specification Section 13 34 23 Fabricated Metal Shelters** to be used for the 70' Hexagon; 50' Hexagon; and the 30' x 50' Metal Shade Structure. (see attached section)
- B. Bidders shall incorporate and use the **attached new Specification Section 13 34 19 Metal Building Systems** for the 136' x 220' Equestrian Arena Shade Structure.

3. QUESTION:

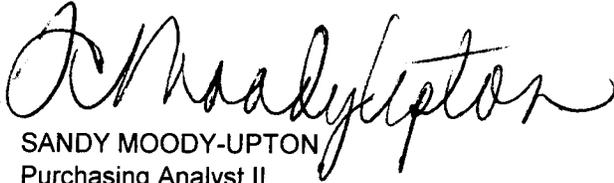
Per question #21 response shown in addendum #2, rock wall is to be comprised of shotcrete and included in bid proposal. The guardrail above shotcrete rockwall is shown to be centerline to edge of shotcrete rock wall and footings for guardrail to be 3'-3" deep x 16" diameter. Is the guardrail at upper portion of rockwall shown on 10/C3.35 to be offset +/- 3'-4' from the shotcrete rockwall to prevent guardrail from falling due to lack of soil stability?

RESPONSE:

As shown on the drawings C3.19, C3.20 and C3.35 Section 10 "SOLID GROUT 3' ABOVE FLOWLINE", shotcrete is the intended use for this application. It will be placed in front of the "ROCKWALL (BY OTHERS)". The "ROCKWALL (BY OTHERS)" is a free formed rockwall not a shotcrete rockwall. The railing is shown in a schematic location, once the "ROCKWALL (BY OTHERS)" is engineered we can determine the final location of the railing. The railing footing should be clear of the "ROCKWALL (BY OTHERS)".

Except as modified herein all other bid specifications, terms and conditions and special conditions shall remain the same.

ISSUED BY:

A handwritten signature in black ink, appearing to read "Sandy Moody-Upton", written in a cursive style.

SANDY MOODY-UPTON
Purchasing Analyst II

Attachments: Section 13 34 23 Fabricated Metal Shelters
Section 13 34 19 Metal Building Systems

Cc: Chuck James, Real Property Management
Brian Connolly, Real Property Management
Sam Botros, Real Property Management

SECTION 13 34 23

FABRICATED METAL SHELTERS

PART 1 GENERAL

1.01 SCOPE

- A. Furnish labor, material and equipment necessary for the installation of metal park shelters as shown on the drawings and specified herein.
- B. Work shall include but not limited to the following: excavation; engineering calculations and design for the footings and shelter as required; layout; and the furnishing and installing of shelters and related equipment in accordance with the manufacturer's installation specifications, including all appurtenances and accessories as required for a full and complete installation.
- C. Drawings and general provisions of the Contract, including General Conditions and Division 1 Specification Sections, apply to this section.
- D. Shade structures must comply with the latest revision of applicable codes and regulations including the International Building Code IBC 2012; American Society of Testing Materials (ASTM); American Welding Society: Structural Welding Code AWS D1.1: Symbols for Welding and Nondestructive Testing AWS2.3; American Institute of Steel Construction (AISC): Specifications for design, fabrication and erection of structural steel.

1.02 SUBMITTALS

- A. Product Data:
 - 1. The Contractor shall submit within seven (7) calendar days after receipt of Notice to Proceed, five (5) complete sets of the material and equipment submittals, including manufacturer's name and address, specific trade names, catalog and model numbers, illustrations and descriptive material, clearly marked as to proposed items for approval by the Owner's representative.
- B. Approval of the submittals shall be the Contractor's authorization to order the required material and equipment. There will be no deviation from the approved submittals without the written authorization of the Owner's representative.
- C. The Contractor shall be responsible for the production and filing of "wet stamped" engineered drawings for the Park Shelter by a State of Nevada licensed engineer, and for securing all permits as required by Clark County.
- D. The engineered drawings item (C) above for the Park Shelter(s) are required to begin within "two week" after item (B) above has been addressed, to allow an adequate timeframe for coordination and the associated permitting requirements.
- E. Provide proof of installation reference sites minimum of (5) structures of similar scope. Include reference list of project locations, design style, size and installation dates and applicable IBC 2009 Code and/or 2012 Code.

- F. Provide proof of quality assurance including:
 - 1. (3) Reference projects installed within a minimum of 10 years.
 - 2. Proof of General liability, Professional liability, etc. see Division 1 requirements.
 - 3. By America Act requirements, see Division 1 for additional information.

- G. All manufacturers must be a Clark County Approved Fabricator and be authorized by Clark County Building Department and Jurisdiction.

1.03 PRODUCTS:

- A. Park Shelters:
 - 1. shall be pre-manufactured, site assembled shelter units with roof panels that have metal clad, exposed interior (ceiling) surfaces, eave beams and standing seam roofing with turned-down fascias and seam clips as shown on the drawings and specified herein.

- B. Manufacturer:
 - 1. The manufacturer shall have been making steel frame pre-manufactured shelters for a minimum of (5) five years and shall demonstrate quality by listing (3) three similar projects in the territory. The owner may review their projects to determine quality, design details and durability in service.

- C. Design and Fabrication:
 - 1. Shelter units submitted for consideration shall be equivalent in design, size, height, appearance, color and construction detail of the specified structure.
 - a. Fabrication using open "I" beams, open "Cees", or open channels shall not be accepted. All open members shall be covered or boxed to present a tubular appearance. Tapered columns shall not be accepted.
 - b. Seamed metal roof systems shall have the ribs or seams running with the slope of the roof.
 - c. Field fabrication and labor will be kept to a minimum by the use of pre-manufactured parts. Suppliers shall list all materials and parts that must be field cut, custom fit and field fabricated. Roof deck and/or panel work shall be detailed as to fieldwork required.
 - d. Foundation and anchor bolt configurations shall be of the same "foot print" as that of the shelter unit, specified. Method of column anchoring shall be equivalent to that of the shelter unit specified, in most cases, a single precast anchor bolt inside each column will be the only acceptable method.

- D. Warranty:
 - 1. A Five-year warranty on all labor and materials shall be provided by the Contractor.
 - 2. A supplemental warranty from the manufacturer shall be provided for a period of 10 years on all structural integrity of the steel from date of substantial completion.
 - 3. 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 MATERIALS

2.01 PARK SHELTER

A. Design Loads:

1. Park Shelters shall be designed in strict accordance with the International Building Code IBC (2012 edition) using a minimum Snow Load of 30 psf, a minimum Wind Load based on a 90 mph wind speed, and a Seismic (earthquake) Load based on Zone 4. The shelter shall be designed as a Space Frame using three dimensional (3-D) structural analyses to determine member loads and forces. The structure shall be surface mounted over internal anchor bolts.

B. Structural:

1. All structural framing (except the compression ring) shall be structural ASTM A500-GRADE B cold formed, electric resistance welded tubing with cover plates to form a clean, neat appearance and no place for bird nesting. Welded "Cee" sections will not be acceptable. The compression ring shall be structural steel plate. Since all connections will bolt together, field welding shall not be required. Bolts shall be concealed within the tubing where possible.
2. All steel members 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. All structural field connections shall be designed and made with High Strength bolted connections using ASTM A325 structural bolts.
3. All shop-welded connections shall be designed and made in strict accordance with the requirements of the "American Welding Society" (AWS) Specifications. Structural welds shall be made, tested and certified in accordance with AWS requirements.

C. Finish Coating:

1. The steel frame shall be powder coated according to the following procedure: The steel shall be shot blasted to near white condition, removing all oil, grease, scale, and rust. Zinc Rich Gray 13-7004 powder coating primer shall be applied over the bare metal. The finish coat shall be TGIC-polyester powder coating with 3-6 mil thickness. Color shall be selected from the manufacturer's powder coating color chart or equal.

D. Structure and Size:

1. The structure and dimension shall be as shown on drawings.

E. Structure Frame:

1. Hexagon 70' Dia. hip roof shelter
 - a. Structural steel columns.
 - b. Purlins, Tension and Truss members shall be structural steel.
2. Hexagon 50' Dia. hip roof shelter
 - a. Structural steel columns.
 - b. Purlins, Tension and Truss members shall be structural steel.
3. Rectangular 30' x 50' hip roof shelter with clerestory
 - a. Structural steel columns.

b. Purlins, Tension and Truss members shall be structural steel.

F. Electrical Access:

1. The manufacturer shall provide electrical access holes as indicated on the drawings to accommodate flexible conduit (installed by others) within the framework.

G. Roof Panels:

1. The preferred roof deck system is one which utilizes laminated, structural sandwich panels; however other methods of thickened roof deck will be allowed, provided that the method does not permit any exposed wood surfaces or exposed fasteners. If sandwich panels are used, they shall be composed of: .019" thick white stucco embossed aluminum on the ceiling; 7/16" oriented strand board; 3 5/8" expanded polystyrene with nominal 1# density; and 7/16" oriented strand board decking on top.
2. Panel size shall be based on 4' wide modules with lengths and angles pre-cut.
3. Sandwich panels shall be joined by 2x4 wood splines and attached to the steel frame with self-tapping screws in accordance with the shelter manufacturer's schedule.
4. Ceiling surfaces shall be metal clad and white in color. Seams shall be sealed with pre-finished white extruded aluminum battens.
5. All structure wood components shall be approved by the American Plywood Association (APA).
6. All laminated structural sandwich panels shall have available test data performed by a BOCA licensed third party professional engineering agency. Testing shall be performed for racking, compressive, and transverse loadings in accordance with the American Society for Testing Materials (ASTM) E-72-80.
7. Panels shall be laminated with adhesive approved by the International Congress of Building Officials (ICBO) test report #3462.

H. Roofing System:

1. Metal roofing panels shall be 24-gauge painted, galvanized standing seam roof decking 12" wide with 1" high battens. The panels shall be furnished in approximate lengths. Angles and trim shall be cut in the field. Ribs shall run with the pitch of the roof for proper drainage. At the eave, the panels shall be field cut and turned down to form a fascia edge, in accordance with drawing details.
2. Panels and matching trim shall be pre-painted with a Kynar 500 paint system. Color as specified on the drawings. A complete matching trim package shall be supplied.
3. Underlying roofing felt package, fasteners, and technical manual shall be supplied by the manufacturer.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Examine substrate, areas, and conditions, with Erector present, for compliance with requirements for installation tolerances and other conditions affecting performance of work.

- B. Before erection proceeds, survey elevations and locations of concrete and masonry bearing surfaces and locations of anchor rods, bearing plates and other embedment's to receive structural framing, with Erector present, for compliance with requirements and metal building system manufacturer's tolerances.
- C. Proceed with erection only after unsatisfactory conditions have been corrected.

3.02 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Provide temporary shores, guy, braces, and other supports during erection to keep structural framing secure, plumb, and in alignment against temporary construction loads equal in intensity to design loads. Remove temporary supports when permanent structural framing connections and bracing are in place, unless otherwise indicated.

3.03 INSTALLATION

- A. Surface Mounting on Concrete Foundation:
 - 1. Shelter(s) shall be set on prepared footings and concrete slab see plans. Foundation will be constructed to local codes, the shelter manufacturer's specifications, and good construction practices for the specific site conditions. The structure shall be attached to the top of the concrete by use of anchor bolts as specified and furnished by the manufacturer. Anchor bolts shall be located inside the column.
 - 2. Concrete work shall be executed in strict accordance with the latest American Concrete Institute Building Code (ACI 318-99).
- B. The contractor installing the structure shall comply with manufacturer's instructions for assembly, installation, and erection per approved drawings.
- C. Pre-Engineered Package:
 - 1. Shelter(s) shall be a pre-cut and pre-fabricated package that shall include the structural frame, panelized roof, fasteners, trim, and installation instructions. The structure shall be shipped in a knocked down manner for minimum shipping charges.
- D. Building Permit and Engineering Calculations:
 - 1. The contractor shall be responsible for footing designs, engineering calculations and certified "wet stamped" drawings, by a Nevada State Registered Engineer, necessary to secure a building permit. Contractor shall be responsible to make application, pay for and secure the building permit(s), necessary for the construction of the shelter unit(s)

END OF SECTION

SECTION 13 34 19

METAL BUILDING SYSTEMS

PART 1 GENERAL

1.01 SCOPE

- A. Furnish labor, material and equipment necessary for the installation of metal equestrian shade structure as shown on the drawings and specified herein.
- B. Work shall include but not limited to the following: excavation; engineering calculations and design for the footings and shade structure as required; layout; and the furnishing and installing of shade structure and related equipment in accordance with the manufacturer's installation specifications, including all appurtenances and accessories as required for a full and complete installation.
- C. Drawings and general provisions of the Contract, including General Conditions and Division 1 Specification Sections, apply to this section.
- D. Shade structure(s) must comply with the latest revision of applicable codes and regulations including but not limited to the International Building Code IBC 2012; American Society of Testing Materials (ASTM); American Institute of Steel Construction (AISC): Specifications for design, fabrication and erection of structural steel buildings; American Welding Society: Structural Welding Code AWS D1.1/D1.1M and AWS D1.3/D1.3; American Iron and Steel Institute (AISI): AISI North American Specification for Design of Cold-Formed Steel Structural Members; MBMA Metal Building Systems Manual (MBMA); Underwriters Laboratories (UL): UL 580 Standards for Tests for Uplift Resistance of Roof Assemblies.

1.02 SUBMITTALS

- A. Product Data:
 - 1. The Contractor shall submit within seven (7) calendar days after receipt of Notice to Proceed, five (5) complete sets of the material and equipment submittals, including manufacturer's name and address, specific trade names, catalog and model numbers, illustrations and descriptive material, clearly marked as to proposed items for approval by the Owner's representative.
- B. Approval of the submittals shall be the Contractor's authorization to order the required material and equipment. There will be no deviation from the approved submittals without the written authorization of the Owner's representative.
- C. The Contractor shall be responsible for the production and filing of "wet stamped" engineered drawings for the Equestrian Shade Structure by a State of Nevada licensed engineer, and for securing all permits as required by Clark County.
- D. The engineered drawings item (C) above for the Equestrian Shade Structure are required to begin within "three week" after item (B) above has been addressed, to allow an adequate timeframe for coordination and the associated permitting requirements.

- E. Provide proof of installation reference sites minimum of (5) structures of similar scope. Include reference list of project locations, design style, size and installation dates and applicable IBC 2009 Code and/or 2012 Code.
- F. Provide proof of quality assurance including:
 - 1. (3) Reference projects installed within a minimum of 10 years.
 - 2. Proof of General liability, Professional liability, etc. see Division 1 requirements.
 - 3. By America Act requirements, see Division 1 for additional information.
- G. All manufacturers must be a Clark County Approved Fabricator and be authorized by Clark County Building Department and Jurisdiction.

1.03 PRODUCTS:

- A. Equestrian Shade Structure:
 - 1. Shall be pre-engineered, site assembled shade structure unit(s) with roof panels that are either Nucor Classic or PBR screw down style roofing and trim as shown on the drawings and specified herein.
- B. Manufacturer:
 - 1. The manufacturer shall have been making steel frame pre-engineered shelters for a minimum of (5) five years and shall demonstrate quality by listing (3) three similar projects in the territory. The owner may review their projects to determine quality, design details and durability in service.
- C. Design and Fabrication:
 - 1. Shade Structure unit(s) submitted for consideration shall be equivalent in design, size, height, appearance, color and construction detail of the specified structure.
 - a. PBR style metal roof system shall have the ribs or seams running with the slope of the roof.
 - b. Field fabrication and labor will be kept to a minimum by the use of pre-manufactured parts. Suppliers shall list all materials and parts that must be field cut, custom fit and field fabricated. Roof deck and/or panel work shall be detailed as to fieldwork required.
 - c. Foundation and anchor bolt configurations shall be of the same "foot print" as that of the shade structure, specified. Method of column anchoring shall be equivalent to that of the shade structure specified, in most cases; a single precast anchor bolt inside each column will be the only acceptable method.
- D. Warranty:
 - 1. A Five-year warranty on all labor and materials shall be provided by the Contractor.
 - 2. A supplemental written warranty from the manufacturer shall be provided for a period of 10 years on all structural integrity of the steel from date of substantial completion.
 - 3. A supplemental written warranty from the manufacturer shall be provided for a period of 25 years on all roof and wall panels from date of substantial completion.
 - 4. 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 MATERIALS

2.01 EQUESTRIAN SHADE STRUCTURE

A. Design Loads:

1. Shade Structure shall be designed in strict accordance with the International Building Code (2012 edition) using a minimum snow load and live load of 20 psf a minimum of ground snow load of 30 psf a minimum Primary Collateral of 3 psf a minimum Wind Load based on a 115 mph wind speed, and a Seismic (earthquake) Load based on Zone 4. The shade structure shall be designed using three dimensional (3-D) structural analyses to determine member loads and forces and shall be designed in accordance to all additional applicable design standards required by Clark County Building Department.

B. Structural:

1. All steel members 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. All structural field connections shall be designed and made with High Strength bolted connections using ASTM A325 structural bolts.
2. All shop-welded connections shall be designed and made in strict accordance with the requirements of the "American Welding Society" (AWS) Specifications. Structural welds shall be made, tested and certified in accordance with AWS requirements.

C. Finish Coating:

1. The steel frame shall be a two coat finish system a red oxide primer and a red oxide colored paint. Primer and paint per manufactures recommendations according to the following procedure: The steel shall be shot blasted to near white condition, removing all oil, grease, scale, and rust. Contractor shall be responsible for all final finishes, no exposable signs to rusting, chipping, scaling on any of the exposed frames.

D. Structure and Size:

1. The structure and dimension shall be as shown on drawings.

E. Structure Frame:

1. Rectangular 136' x 220' Type II B Equestrian Arena Structure
 - a. Structural steel columns.
 - b. Purlins, Tension and Truss members shall be structural steel.

F. Electrical Access:

1. Cover and protect all electrical conduits to provide additional deterrents from vandalism from the ground up to a minimum of 14'-0".

G. Roof Panels:

1. Classic type or PBR 26 gauge minimum (based on engineered drawings) and manufacturers recommendations (for color see plans)

H. Roofing System:

1. Metal roofing panels shall be 26-gauge painted, classic or PBR style. The panels shall be furnished in approximate lengths. Angles and trim shall be cut in the field. Ribs shall run with the pitch of the roof for proper drainage. At the eave, the panels shall be field cut and turned down to form a fascia edge, in accordance with drawing details.
2. Panels and matching trim shall be pre-painted with silicon polyester paint system. Color as specified on the drawings. A complete matching trim package shall be supplied.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Examine substrate, areas, and conditions, with Erector present, for compliance with requirements for installation tolerances and other conditions affecting performance of work.
- B. Before erection proceeds, survey elevations and locations of concrete and masonry bearing surfaces and locations of anchor rods, bearing plates and other embedment's to receive structural framing, with Erector present, for compliance with requirements and metal building system manufacturer's tolerances.
- C. Proceed with erection only after unsatisfactory conditions have been corrected.

3.02 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Provide temporary shores, guy, braces, and other supports during erection to keep structural framing secure, plumb, and in alignment against temporary construction loads equal in intensity to design loads. Remove temporary supports when permanent structural framing connections and bracing are in place, unless otherwise indicated.

3.03 INSTALLATION

- A. Surface Mounting on Concrete Foundation:
 1. Shelter(s) shall be set on prepared footings and/or concrete slab see plans. Foundation will be constructed to local codes, the shelter manufacturer's specifications, and good construction practices for the specific site conditions. The structure shall be attached to the top of the concrete by use of anchor bolts as specified and furnished by the concrete contractor. Anchor bolts shall be located inside the column.
 2. Concrete work shall be executed in strict accordance with the latest American Concrete Institute Building Code (ACI 318-99).

- B. The contractor installing the structure shall comply with manufacturer's instructions for assembly, installation, and erection per approved drawings.
- C. Pre-Engineered Package:
 - 1. Metal Shade Structure shall be a pre-cut and pre-fabricated package that shall include the structural frame, panelized roof, fasteners, trim, and installation instructions. The structure shall be shipped in a knocked down manner for minimum shipping charges.
- D. Building Permit and Engineering Calculations:
 - 1. The contractor shall be responsible for footing designs, engineering calculations and certified "wet stamped" drawings, by a Nevada State Registered Engineer, necessary to secure a building permit. Contractor shall be responsible to make application, pay for and secure the building permit(s), necessary for the construction of the shelter unit(s)

END OF SECTION