

Invitation to Bid

For Marion County Airport Rotating Beacon & Tower
Installation

Tuesday, January 12, 2021

Marion County Board of Commissioners

P.O. Box 481
100 Burkhalter Ave.
Buena Vista, GA 31803
Phone: 229.649.2603
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1.0 Submission Details

1.1 Submission Deadlines

One (1) original of the complete signed submittal must be received by the submittal deadline. All submissions for responding to this request must be submitted in a sealed envelope stating on the outside, the vendor's name, address, and the Invitation to Bid (ITB) title. All submissions must be delivered to our office, as stated below, no later than:

Tuesday, January 26, 2021
No later than 2:00pm EDT

1.2 Submission Delivery Address

The delivery address to be used for all submissions is:

Justin Strickland
County Manager
Marion County Board of Commissioners
P.O. Box 481
Buena Vista, GA 31803
Phone: 229.649.2603
Email: jstrickland@marioncountyga.org

1.3 Submission Questions and Clarifications

You may contact the following person if you have any questions or require clarification on any topics covered in this Invitation to Bid:

Justin Strickland
County Manager
Phone: 229.649.2603
Email: jstrickland@marioncountyga.org

All questions that arise must be submitted prior to one business day(s) before the submittal due date and shall be directed to the contact person in writing via facsimile or email. Any unauthorized contact shall not be used as a basis for responding to this ITB and also may result in the disqualification of the vendor's submittal. Vendors may not contact any elected official or other County Employee to discuss the bid process or proposal opportunities, contact of this nature will result in immediate disqualification of the vendor.

1.4 Electronic Submissions

No electronic submissions are required with this ITB.

1.5 Additional Information/Addenda

Marion County will issue responses to inquiries and any other corrections or amendments it deems necessary in written addenda issued prior to the due date. Vendors should not rely on any representations, statements or explanations other than those made in this ITB or in any addendum to this ITB. Where there appears to be a conflict between the ITB and any addenda issued, the last addendum issued will prevail. Addenda will be published at www.marioncountyga.org/purchasing-bids/. Vendors are encouraged to check this site regularly for immediate access to issued addenda. RFP & ITB Communications can also be requested as stated above (1.3).

Vendors must acknowledge any issued addenda by including the Addenda Acknowledgement Form with the submittal. Bidders who fail to acknowledge the receipt of any addendum will result in the rejection of the offer if the addendum contains information which substantively changes the owner's requirements

1.6 Late Submittal, Late Modifications, and Late Withdrawals

Submittals received after the due date and time will not be considered. Modifications received after the due date will not be considered. Marion County assumes no responsibility for the premature opening of a bid not properly addressed and identified, and/or delivered to the proper designation.

1.7 Rejection of Bid

Marion County may reject any and all submittals and reserves the right to waive any irregularities or informalities in any submittal or in the submittal procedure. Submittals received after said time or at any place other than as stated in the notice will not be considered.

1.8 Minimum Bid Acceptance Period

Valid submittals shall not be withdrawn for a period of 90 days from the date specified for receipt of submittals.

1.9 Non-Collusion Affidavit

By submitting a response to this ITB, the vendor represents and warrants that such bid is genuine and not a sham or collusive or made in the interest or in behalf of any person not therein named and that the vendor has not directly or indirectly induced or solicited any other vendor to put in a sham bid, or any other person, firm or corporation to refrain from submitting

and that the vendor has not in any manner sought by collusion to secure to that vendor any advantage over any other vendor. By submitting a bid, the vendor represents and warrants that no official or employee of Marion County has, in any manner, an interest, directly or indirectly in the bid or in the contract which may be made under it, or in any expected profits to arise there from.

1.10 Illegal Immigration Form

Every contractor and sub-contractor submitting a bid must complete the form showing compliance with the Illegal Immigration Reform and Enforcement Act of 2011, O.C.G.A. § 13-10-91. The form is provided with this ITB package along with one for any sub-contractors.

1.11 Bond Requirements

No bonds are required for this bid.

1.12 Cost Incurred by Bidders

All expenses involved with the preparation and submission of the bid to Marion County, or any work performed in connection therewith is the responsibility of the bidder(s).

1.13 Bid Opening

Bid submittal prices will be opened publicly and reviewed based on price. A list of companies responding to the bid may be obtained from the Administration Office, after the bid due date and time stated herein.

1.14 Taxes

The selected vendor will be provided with the Marion County Sales and Use Tax Certificate of Exemption number upon request for material purchases.

1.15 Proposer Information

All bidders must register as a vendor with Marion County prior to the bid submittal. Registration information can be found at www.marioncountyga.org/purchasing-bids/. All submissions shall include a current W-9. Vendors whose place of business is other than the State of Georgia may be required to provide Marion County with copies of that state's regulations and/or laws concerning the application of certain vendor preference requirements to vendors whose place of business is in the applicable state. Failure to provide this information will result in the disqualification of the vendor from submitting a bid.

1.16 Anti-Discrimination

By submitting a response to this ITB, all perspective contractors certify to Marion County that they will conform to the provisions of the Federal Civil Rights Act of 1964, as amended. In every contract of over \$10,000 the provisions in 1.15.1 and 1.15.2. apply:

1.16.1

During the performance of this contract, the contractor agrees as follows:

1.16.1.1

The contractor will not discriminate against any employee or applicant for employment because of race, religion, color, sex or national origin, except where religion, sex or national origin is a bona fide occupational qualification reasonably necessary to the normal operation of the contractor. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause.

1.16.1.2

The contractor, in all solicitations or advertisements for employees placed by or on behalf of the contractor, will state that such contractor is an equal opportunity employer.

1.16.1.3

Notices, advertisements, and solicitations placed in accordance with federal law, rule, or regulation shall be deemed sufficient for the purpose of meeting the requirements of this section.

1.16.2

The contractor will include the provisions of 1.15.1 above in every subcontract or purchase order of over \$10,000 so that the provisions will be binding upon each subcontractor or vendor.

1.17 Acceptance

Submission of any bid indicates acceptance of the conditions contained in the ITB unless clearly and specifically noted otherwise in the bid.

1.18 Price

Prices quoted shall be lump sum and include all costs and charges to include, but not limited to material, labor, transporting the equipment, operating equipment, safety compliance, and/or services described herein to accomplish the Scope of Work as described in Section 2.2. Marion County is exempt from state sales tax. All fees shall be included in the bid price. Bidders must provide a quote based on the bid unit as listed.

1.19 Samples

If samples are requested by Marion County, they shall be at no charge to the County and will become property of the County, unless return is requested by the bidder in writing in their bid. Return of samples will be at bidder's expense.

1.20 Trade Name

Bidders are required to indicate the brands and models of merchandise and/or services quoted. Unless listed as "brand/model only", brand names and models listed in specifications are used as a standard of quality and/or clarification of desired product.

2.0 Purpose and Scope of Work

2.1 Purpose

The intent of this Invitation to Bid (ITB) is to solicit bids for furnishing all labor, equipment, and materials necessary for the installation of a rotating beacon and rotating beacon tower at the Marion County Airport located at 118 Airport Road, Buena Vista, Georgia 31803. The work shall include mounting, leveling, wiring, painting, maintaining, and testing of the beacon. In addition, this item also includes all materials and incidentals necessary to place the beacon in a serviceable condition (as a completed unit) to the satisfaction of Marion County's engineer, POND & Company.

2.2 Scope of Work

2.2.1 Item 1: Airport Rotating Beacon

EQUIPMENT AND MATERIALS

General.

- a Airport lighting equipment and materials covered by advisory circulars (ACs) shall be certified and listed in AC 150/5345-53, Airport Lighting Equipment Certification Program (ALECP) and listed in the ALECP Addendum.
- b All other equipment and materials covered by other referenced specifications shall be subject to acceptance through manufacturer's certification of compliance with the applicable specification when requested by the Engineer.
- c Manufacturer's certifications shall not relieve the Contractor of the responsibility to provide materials that are per these specifications. Materials supplied and/or installed that do not comply with these specifications shall be removed (when directed by the RPR, Resident Project Representative) and replaced with materials, that are per these specifications, at the Contractor's cost.
- d All materials and equipment used to construct this item shall be submitted to the Engineer for approval prior to ordering the equipment. Submittals consisting of marked catalog sheets or shop drawings shall be provided. Submittal data shall be presented in a clear, precise and thorough manner. Original catalog sheets are preferred. Photocopies are acceptable provided they are as good a quality as the original. Clearly mark each copy to identify the products or models applicable to this project. Indicate all optional equipment and delete any non-pertinent data. Submittals for components or electrical equipment and systems shall identify the equipment to which they apply on each submittal sheet. Markings shall be made bold and clear with arrows or circles (highlighting is not acceptable). The Contractor is solely responsible for delays in the project that

accrue directly or indirectly from late submissions or resubmissions of submittals.

- e The data submitted shall be sufficient, in the opinion of the RPR, to determine compliance with the Contract Documents plans and specifications. The Engineer reserves the right to reject any and all equipment, materials or procedures that do not meet the system design and the standards and codes, specified in this document.
- f All equipment and materials furnished and installed in this section shall be guaranteed against defects in materials and workmanship for at least **twelve (12) months** from the date of final acceptance by the Owner. The defective materials and/or equipment shall be repaired or replaced, at the Owner's discretion, with no additional cost to the Owner.
- g **Beacon.** The beacon shall be a **Type L801A Class 1** beacon meeting the requirements of AC 150/5345-12, Specification for Airport and Heliport Beacons.
- h **Beacon installation.** See AC 150/5340-30, Design and Installation Details for Airport Visual Aids, for airport beacon and AC 150/5390-2, Heliport Design for heliport beacon installation details. Provide two lamp sets as spares.
- i **Panel boards and breakers.** Panel boards and breakers shall conform to the requirements of Federal Specification W-P-115, Panel, Power Distribution.
- j **Weatherproof cabinets.** The weatherproof cabinets shall conform to National Electrical Manufacturers Association Standards (NEMA) and shall be constructed of steel not less than No. 16 United States Standard (USS) gauge.
- k **Electrical wire.** For ratings up to 600 volts, moisture and heat resistant thermoplastic wire conforming to Commercial Item Description A-A-59544A Type THWN-2 shall be used. The wires shall be the type, size, number of conductors, and voltage shown in the plans or in the proposal.
- l **Conduit.** Rigid steel conduit and fittings shall be per Underwriters Laboratories Standards 6, 514B, and 1242.

Paint.

- m Priming paint for non-galvanized metal surfaces shall be a high solids alkyd primer compatible with the manufacturer's recommendations for the intermediate or topcoat.
- n Priming paint for galvanized metal surfaces shall be a zinc-rich epoxy primer paint per MIL-DTL-24441/19C, Formula 159, Type III. Use MIL-24441 thinner per paint manufacturer's recommendations.
- o Orange paint for the body and the finish coats on metal and wood surfaces shall consist of a ready-mixed non-fading paint meeting the requirements of Master

Painter's Institute (MPI) Reference #9 (gloss). The color shall be per Federal Standard 595, International Orange Number 12197.

- p White paint for body and finish coats on metal and wood surfaces shall be ready-mixed paint per the Master Painter's Institute, Reference #9, Exterior Alkyd, Gloss, volatile organic content (VOC) Range E2.
- q Priming paint for wood surfaces shall be mixed on the job by thinning the above-specified orange or white paint with 1/2 pint (0.24 liter (l)) of raw linseed oil to each gallon (liter).

CONSTRUCTION METHODS

- r **Placing the beacon.** The beacon shall be mounted on a beacon tower
- s **Hoisting and mounting.** The beacon shall be hoisted to the mounting platform by using suitable slings and hoisting tackle. Before fastening the beacon to the mounting platform, the mounting holes shall be checked for correct spacing. Beacon base or mounting legs shall not be strained or forced out of position to fit incorrect spacing of mounting holes. The beacon base shall be raised first, set in position, and bolted in place. The drum shall then be raised and assembled to the base.
- t **Leveling.** After the beacon has been mounted, it shall be accurately leveled following the manufacturer's instructions. The leveling shall be checked in the presence of the RPR and shall be to the RPR's satisfaction.
- u **Servicing.** Before placing the beacon in operation, the Contractor shall check the manufacturer's manual for proper servicing requirements. Follow the manufacturer's servicing instructions for each size of beacon.
- v **Beam adjustment.** After the beacon has been mounted and leveled, the elevation of the beam shall be adjusted. The final beam adjustments shall be made at night so that results can be readily observed. The beams shall be adjusted to the elevation directed by the RPR or as shown in the plans. See AC 150/5340-30 for additional information about airport beacon beam adjustment.
- w **Beacon mounting platform.** Where the beacon is to be mounted at a location other than the beacon tower and where a special mounting platform is required, the construction of the mounting platform and any necessary lightning protection equipment shall be per the details shown in the plans.

- x **Wiring.** The Contractor shall furnish all necessary labor and materials and shall make complete above ground electrical connections per the wiring diagram furnished with the project plans. The electrical installation shall conform to the requirements of the latest edition of National Fire Protection Association, NFPA-70, National Electrical Code (NEC).
- y If underground cable for the power feed from the transformer vault to the beacon site and duct for this cable installation is required, the cable, ground rods and duct shall be installed as shown on the plans.
- z If shown on the plans, the Contractor shall connect the tell-tale relay mechanism in the beacon to energize the tower obstruction light circuit when failure of the beacon service (primary) lamp occurs.
- aa If lightning protection is specified in the plans, it shall be installed per Item L-103, Airport Beacon Towers, paragraph 103-2.3.
- bb **Panel and cabinet.** If shown on the plans, the Contractor shall furnish and install at the top of the beacon tower or mounting platform a circuit-breaker panel consisting of four 15-ampere breakers mounted in a weather-proof cabinet to provide separate protection for the circuits to the beacon lamps, motor, obstruction lights, and other equipment. The cabinet shall be located on the side of the beacon platform as shown on the plans or as directed by the RPR.
- cc **Conduit.** All exposed wiring shall be run in not less than 3/4 inch (19 mm) galvanized rigid steel conduit. Outdoor rated, liquid-tight, flexible metal conduit may be used for final connection at the beacon equipment. No conduit shall be installed on top of a beacon platform floor. All conduits shall be installed to provide for drainage. If mounted on a steel beacon tower, the conduit shall be fastened to the tower members with Wraplock® straps (or equivalent), clamps, or approved fasteners, spaced approximately 5 feet (1.5 m) apart. The conduit shall be fastened to wooden structures with galvanized pipe straps and with galvanized wood screws not less than No. 8 or less than 1-1/4 inches (32 mm) long. There shall be at least two fastenings for each 10 feet (3 m) length.
- dd **Booster transformer:** A booster transformer, if required, to compensate for voltage drop to the beacon shall be installed in a suitable weatherproof housing under or on the tower platform or at the base of the tower.
- ee **Photoelectric control.** If shown in the plans or specified in the job specifications, the Contractor shall furnish and install an automatic control switch at the

location indicated in the plans. The switch shall be a photoelectric type. It shall be a standard commercially available unit that will energize when the illumination on a vertical surface facing North decreases to 25 to 35 foot-candles (269 to 377 lux). The photoelectric switch should de-energize when the illumination rises to 50 to 60 foot-candles (538 to 646 lux). The photoelectronic switch shall be installed, connected, and adjusted per the manufacturer's instructions.

- ff **Obstruction lights.** Unless otherwise specified, the Contractor shall install on the top of the beacon tower or mounting platform two L-810 obstruction lights on opposite corners. These lights shall be mounted on conduit extensions to a height of not less than 4 inches (100 mm) above the top of the beacon.
- gg **Painting.** If construction of a wooden mounting platform is stipulated in the proposal as part of this item, all wooden parts of the platform shall be given one priming coat of white or aviation-orange paint after fabrication but before erection and one body and one finish coat of international-orange paint after erection. Steel mounting platforms shall be given one priming coat of corrosion-inhibiting primer before erection and one body and one finish coat of international-orange paint after erection. All equipment installed under this contract and exposed to the weather shall be given one body and one finish coat of international-orange (per Federal Standard 595, Number 12197) or white paint as required. This shall include the beacon (except glass surfaces), beacon base, breaker cabinet, all conduit, and transformer cases. It shall not include lightning protection system air terminals or obstruction light globes.
- hh Apply the paint uniformly at the proper consistency. The finished paint shall be free from sags, holidays, and smears. Each coat of paint shall be given ample time to dry and harden before the next coat of paint is applied. A minimum of three (3) days shall be allowed for drying on wood surfaces, and a minimum of four (4) days shall be allowed for drying on metal surfaces. Painting shall not be performed in cold, damp, foggy, dusty, or frosty atmospheres, or when the air temperature is below 40°F (4°C), nor started when the weather forecast indicates such conditions for the day.
- ii All surfaces shall be cleaned before painting. The surfaces shall be dry and free from scale, grease, rust, dust, and dirt. All knots in wood surfaces shall be covered with shellac immediately before applying the priming coat of paint. Nail holes and permissible imperfections shall be filled with putty. The ready-mixed paint shall be thinned for the priming and body coats per the manufacturer's

recommendations. In the absence of such recommendations, the following shall apply:

- i. Body coats (for both wood and steel surfaces) - add 1/2 pint (0.24 liter) of turpentine to each gallon (liter) of ready-mixed paint for body coats.
- ii. Finish coats (for both wood and steel surfaces) the ready-mixed paint shall be used as it comes from the container for finish coats.

jj **Testing.** The beacon installation shall be fully tested as a completed unit prior to acceptance. These tests shall include operation of the lamp-changer and performing insulation resistance and voltage readings. The insulation resistance to ground of the beacon power supply circuit shall be not less than 100 megohms when measured ungrounded. The Contractor must furnish testing equipment. Tests shall be conducted in the presence of the RPR and shall be to the RPR's satisfaction.

REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

Advisory Circulars (AC)

AC 150/5345-7	Specification for L-824 Underground Cable for Airport Lighting Circuits
AC 150/5345-12	Specification for Airport and Heliport Beacons
AC 150/5340-30	Design and Installation Details for Airport Visual Aids
AC 150/5345-53	Airport Lighting Equipment Certification Program
AC 150/5390-2	Heliport Design

Commercial Item Description

A-A-59544A	Cable and Wire, Electrical (Power, Fixed Installation)
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Federal Specification (FED SPEC)

FED SPEC W-P-115	Panel, Power Distribution
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Federal Standard (FED STD)

FED STD 595	Colors Used in Government Procurement
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Master Painter Institute (MPI)

MPI Reference #9	Alkyd, Exterior, Gloss (MPI Gloss Level 6)
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Mil Spec

MIL-DTL-24441C/19C Paint, Epoxy-Polyamide, Zinc Primer, Formula 159, Type III

National Fire Protection Association (NFPA)

NFPA-70	National Electric Code (NEC)
NFPA-780	Standard for the Installation of Lightning Protection Systems

Underwriters Laboratories (UL)

UL Standard 6	Electrical Rigid Metal Conduit – Steel
UL Standard 514B	Conduit, Tubing, and Cable Fittings
UL Standard 1242	Electrical Intermediate Metal Conduit - Steel

2.2.2 Item 2: Airport Beacon Tower

EQUIPMENT AND MATERIALS

General.

- a All equipment and materials covered by referenced specifications shall be subject to acceptance through manufacturer's certification of compliance with the applicable specification when requested by the RPR.
- b Manufacturer's certifications shall not relieve the Contractor of the responsibility to provide materials per these specifications. Materials supplied and/or installed that do not comply with these specifications shall be removed (when directed by the RPR) and replaced with materials, that are per these specifications, at the Contractor's cost.
- c All materials and equipment used to construct this item shall be submitted to the RPR for approval prior to ordering the equipment. Submittals consisting of marked catalog sheets or shop drawings shall be provided. Submittal data shall be presented in a clear, precise and thorough manner. Original catalog sheets are preferred. Photocopies are acceptable provided they are as good a quality as the original. Clearly and boldly mark each copy to identify products or models applicable to this project. Indicate all optional equipment and delete any non-pertinent data. Submittals to components of electrical equipment and systems shall identify the equipment for which they apply on each submittal sheet. Markings shall be made bold and clear with arrows or circles (highlighting is not acceptable). The Contractor is solely responsible for delays in the project that may accrue directly or indirectly from late submissions or resubmissions of submittals.
- d The data submitted shall be sufficient, in the opinion of the RPR, to determine compliance with the plans and specifications. The RPR reserves the right to reject any and all equipment, materials or procedures that do not meet the system design and the standards and codes, specified in this document.
- e All equipment and materials furnished and installed under this section shall be guaranteed against defects in materials and workmanship for at least twelve (12) months from the date of final acceptance by the Owner. The defective materials and/or equipment shall be repaired or replaced, at the Owner's discretion, with no additional cost to the Owner.
- f Tower. The beacon tower shall be 30'-0" nominal beacon pole with round beacon basket as manufactured by Millerbernd Manufacturing Company or an approved equal. Refer to AC 150/5340-30, Design and Installation Details for Airport Visual Aids, Chapter 6.
- g **Lightning protection.** Lightning protection shall comply with NFPA-780, Standard for the Installation of Lightning Protection Systems. All materials shall comply with NFPA 780 Class II material requirements regardless of the tower height.

Paint.

- h Priming paint for galvanized steel towers shall be zinc dust-zinc oxide primer paint per MIL-DTL-24441C/19B. Use MIL-24441 thinner per paint manufacturer's recommendations.
- i Priming paint for non-galvanized steel towers shall be a high solids alkyd primer per the Master Painter's Institute (MPI), Reference #9, Exterior Alkyd, Gloss.

- j Orange paint for the body and the finish coats on metal and wood surfaces shall consist of a ready-mixed non-fading paint MPI Reference #9 (gloss). The color shall be per Federal Standards 595, International Orange Number 12197.
- k White paint for a steel tower shall be ready-mixed paint per MPI #8.

CONSTRUCTION METHODS

- l **Clearing and grading.** The site on which the beacon tower is to be erected shall be cleared and leveled. All trees and brush shall be removed from the area within a distance of 25 feet (7.5 m) from the tower or as called for in the plans. Stumps shall be removed to a depth of 18 inches (0.5 m) below finished grade and the excavation filled with earth and tamped. If a transformer vault or other structure is included as part of the installation, the area shall be cleared to a distance of 25 feet (7.5 m) from these structures. The ground near the tower shall be leveled to permit the operation of mowing machines. The leveling shall extend at least 2 feet (60 cm) outside the tower legs. All debris removed from the tower site shall be disposed of by the Contractor to the satisfaction of the RPR and per federal, state, or local regulations.
- m **Excavation and fill.** Excavation for the tower footings shall be carried to a minimum of 4 inches (100 mm) below the footing depth. The excess excavation below the footing depth shall then be backfilled with gravel or crushed stone and compacted to the required level. The footing plates shall be installed, and a thickness of not less than 18 inches (0.5 m) of the same gravel or crushed stone shall be placed immediately above the footing plates in layers of not over 6 inches (150 mm). Each layer above the footing plates shall be thoroughly tamped in place. The remainder of the backfill may be of excavated earth placed in layers not to exceed 6 inches (150 mm). Each layer shall be thoroughly compacted by tamping.
- n Where solid rock is encountered, which prevents the carrying of the foundation legs to the required depth but which is of sufficient strength to use hold-down bolts, the tower anchor posts shall be cut off at the required length and the hold-down bolts shall be installed as indicated in the plans with the approval of the RPR. Each tower leg shall be anchored to the rock by means of two 7/8-inch (22 mm) diameter by 3 feet (1 m) long expansion or split bolts and shall be grouted with neat Portland cement into holes drilled into the natural rock. Except as required for rock foundations, the footing members shall not be cut off or shortened. If excavated material is of such consistency that it will not readily compact when backfilled, the RPR may order the excavation backfilled with concrete or other suitable material.
- o The concrete footing for tubular beacon towers shall be installed per the manufacturer's recommendations. Portions of the footing in the topsoil layer shall not be included in the footing height.
- p **Erection.** Tower erection as shown on the plans and detailed erection drawings furnished by the manufacturer shall be strictly followed during construction. All towers shall be erected in sections from the ground up unless otherwise specified. For final assembly, all bolts and fastenings shall be installed, and the structure shall be plumb, true, square, and level. Nuts shall

be taken up to a firm bearing after which the bolts shall, if necessary, be cut to proper length to protrude three full threads. Approved locknuts shall be placed on each bolt over the regular nut. Ladder bolts shall be inserted with the head to the outer face of the tower. Diagonal, leg, and handrail bolts shall be installed with nuts on the outer face of the tower, unless otherwise specified. Bent parts shall be straightened before erection without damage to the protective coating. Surfaces abraded or bared of protective coating shall be painted with the proper priming paint per these specifications.

- q The Contractor shall install the ladder on the side of the tower adjacent to the driveway or most accessible approach to the tower. Tubular beacon towers shall be erected per the manufacturer's recommendations. The safety cable shall be located on the side of the tower adjacent to the driveway or most accessible approach to the tower.
- r **Lightning protection.** The Contractor shall furnish and install a Class II lightning protection system in accordance with NFPA 780. Ground rods and underground cables shall be installed in accordance with the plans.
- s Down-conductor cables shall be securely fastened to the surface of the tower leg at 5 feet (1.5 m) intervals with suitable bronze fasteners having bronze or noncorrosive metal bolts. Sharp turns or bends in the down conductor will not be permitted.
- t All connections of cable to cable, cable to air terminals, and cable to ground plates or rods shall be made with solder-less connectors or noncorrosive metal approved by the RPR and shall be of substantial construction.
- u The down-conductor cable shall be securely attached to ground rods or plates placed at least 2 feet (60 cm) away from the tower foundations. The ground rod shall be driven into the ground so that the top is at least 6 inches (150 mm) below grade. The down-conductor shall be firmly attached to the ground plate or rod by means of an exothermic weld only. Plates shall be embedded in an area of permanent moisture.
- v The complete lightning protection installation shall be accomplished to the satisfaction of the RPR. The resistance to ground of any part of the lightning protection system shall not exceed 25 ohms. If a single rod grounding electrode has a resistance to earth of over 25 ohms, then install one supplemental rod not less than 10 feet from the first rod. If desired resistance to ground levels are still not achieved, see FAA-STD-019 for guidance on the application of coke breeze.
- w **Painting.** The Contractor shall furnish all materials and labor for painting the beacon tower. The color scheme for the steel tower shall be as shown in the plans.
- x **Parts to be painted.** Tower parts (except those parts to be exposed to earth) shall not be treated or primed before erection. All tower parts placed below ground level or within 12 inches (300 mm) above ground level shall be given two coats of approved asphalt paint.

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- y Apply the proper consistency of paint uniformly. The finished paint shall be free from sags, holidays, and smears. Division lines between colors shall be sharply defined. Each coat of paint shall be given ample time to dry and harden before the next coat is applied. A minimum of four (4) days shall be allowed for drying on metal surfaces. Painting shall not be done in cold, damp, foggy, or dusty atmospheres, or when air temperature is below 40°F (4°C), nor started when the weather forecast indicates such conditions for the day.
 - z All surfaces shall be cleaned before painting. The surfaces shall be dry and free from scale, grease, rust, dust, and dirt when paint is applied.
 - aa The number of coats of paint applied shall be per the following instructions:
 - i. **Steel towers, galvanized.** One priming coat of zinc dust-zinc oxide primer after erection and one body and one finish of white or orange paint (as required by the color scheme) shall be applied after erection.
 - ii. **Steel towers, not galvanized.** One priming coat of corrosion-inhibiting primer and one body and one finish coat of white or orange paint (as required by the color scheme) shall be applied after erection.
 - bb The above specified orange and white ready-mixed paints shall be thinned for the body coats per the manufacturer's recommendations. In the absence of such recommendations, the following shall apply:
 - i. **Body coats.** Add not more than 1/2 pint (0.24 liters) of turpentine to each gallon (liter) of ready-mixed paint for body coats.
 - ii. **Finish coats.** The ready-mixed paint shall be used as it comes from the container for finish coats.

REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

Advisory Circulars (AC)

AC 150/5340-30 Installation and Design Details for Airport Visual Aids

Master Painter's Institute (MPI)

MPI Reference #8 Alkyd, Exterior, Flat (MPI Gloss Level 1)

MPI Reference #9 Alkyd, Exterior, Gloss (MPI Gloss Level 6)

Federal Standard (FED STD)

FED STD 595 Colors Used in Government Procurement

Mil Standard

MIL-DTL-24441C/19B Paint, Epoxy-Polyamide, Zinc Primer, Formula 159, Type III

National Fire Protection Association (NFPA)

NFPA-780 Standard for the Installation of Lightning Protection Systems

2.3 Quantities

This is a lump sum bid. The lowest overall price will be selected for recommendation for award.

3.0 Qualifications

3.1 Legal & Insurance

Bidder must be a legal business entity with all required state and local certificates to conduct business within Marion County, Georgia. Bidder must be able to provide current General Liability Insurance. Bidder must be able to provide Workers' Compensation Insurance. See Exhibit B for Insurance Requirements.

3.2 Proposal Guaranty

Not required for this bid.

3.3 Performance & Payment Bonds

Not required for this bid.

4.0 Procedures

4.1 Project Administration

The bid will be administered by Marion County through the County Manager. The County Manager being the main point of contact for all questions during the preliminary procedures. After a contract or bid is awarded, the Marion County Manager, the Georgia Department of Transportation, and POND & Company will be the project administrators.

4.2 Questions

All questions shall be submitted in writing (e-mail is preferred) and relevant questions shall be posted on our website (see 1.5).

4.3 Open Records

All materials submitted in connection with this ITB will be public documents and subject to the Open Records Act and all other laws of the State of Georgia, the United States of America and the open records policies of Marion County. All such materials shall remain the property of Marion County and will not be returned to the respondent.

4.4 Indemnification

All respondents to this ITB shall hold harmless Marion County, and any of their officers and employees from all suits and claims alleged to be a result of this ITB. The issuance of this ITB constitutes only an invitation to present a bid. Marion County reserves the right to determine, at its sole discretion, whether any aspect of a respondent's submittal meets the criteria in this ITB. Marion County also reserves the right to seek clarifications, to negotiate with any vendor submitting a response, to reject any or all responses with or without cause, and to modify the procurement process and schedule. In the event that this ITB is withdrawn or the project canceled for any reason, Marion County shall have no liability to any respondent for any costs or expenses incurred in connection with this ITB or otherwise.

4.5 Mandatory Forms

Failure to submit all the mandatory forms from this ITB package shall be just cause for the rejection of the qualification package. However, Marion County reserves the right to decide, on a case-by-case basis, in its sole discretion, whether or not to reject such a bid as non-responsive.

4.6 Failure to Deliver Goods/Service

In case of failure to deliver goods/service in accordance with the contract terms and conditions, Marion County, after due oral or written notice, may procure substitute goods or services from other sources and hold the contractor responsible for any resulting additional purchasing and administrative costs. This remedy shall be in addition to any other remedies which Marion County may have.

4.7 Contract

Any contract resulting from this ITB shall be governed in all respects by the laws of the State of Georgia and any litigation with respect thereto shall be brought in the courts of the State of Georgia. Then contractor shall comply with applicable federal, state, and local laws and regulations. The Contractor shall be governed accordingly.

4.8 Funding

It is understood and agreed by the bidder that Marion County shall be bound hereunder only to the extent of the funds available or which may hereafter become available for the purpose of this ITB.

4.9 Pre-Construction Conference

A Pre-Construction Conference shall be held on this project before any work is started by the contractor. The Pre-Construction Conference shall include the Marion County Manager, the Georgia Department of Transportation, POND & Company, and the Contractor.

4.10 Notice to Proceed

The work shall begin within two (2) weeks after notification to begin work by the County and shall be carried through to completion without unreasonable delays and without suspension of the work unless authorized in writing by the County. If there are unreasonable delays or unauthorized suspensions of the work, the County reserves the right to charge the Contractor, not as a penalty, but as liquidated damages, as prescribed in an executed contract.

4.11 Completion Date

The Completion Date of this project shall be **March 31, 2021**.

4.12 Final Payment

Final Payment will be made upon completion of the entire project and after a final inspection by the County's on-call engineering firm, POND & Company. Final payment will not be made until the inspection report is provided to Marion County and any concerns arising from the inspection are abated.

5.0 Selection

5.1 Opening of Bids

All qualified bids will be opened by the County Manager, publicly, at the time and date that bids are due.

5.2 Selection Criteria

The low bidder will be the only consideration for negotiation and recommendation to the Marion County Board of Commissioners for the bid award.

5.3 Bid Acceptance

Marion County reserves the right to accept the bid that is determined to be in the best interest of the County. The County reserves the right to reject any and or all bids.

5.4 Board of Commissioners

The accepted low bid will be brought before the Marion County Board of Commissioners, depending upon the cost of the bid, during a regular open meeting by the County Manager for Commission approval. The Board of Commissioners gives the final approval for the acceptance of a bid and reserves the right to reject the selected bid for any reason.

5.5 Contract Negotiation and Signing

Upon Board of Commissioner approval, the County will complete contract negotiations with the selected vendor. The contract must be signed by an authorized agent of the selected vendor and by the Chairperson of the Marion County Board of Commissioners or their designee.

Exhibit A

BEACON LOCATION PHOTOGRAPH



Exhibit B

LIABILITY INSURANCE REQUIREMENTS

The limits of liability for the insurance required by the General Conditions shall not be less than the following amounts:

- A. Workers Compensation
 - 1) State Statutory
 - 2) Applicable Federal
(e. g. Longshoreman’s): Statutory
 - 3) Employer’s Liability \$1 Million

- B. Comprehensive General Liability (including Contractual Liability, Premises – Operations; Independent contractor’s Protective; Products Liability – Completed Operations; Broad Form Property Damage:
 - 1) General Aggregate (Except Products – Completed Operations) \$2 Million

 - 2) Products – Completed Operations Aggregate \$1 Million

 - 3) Personal and Advertising Injury (per Person/Organization) \$1 Million

 - 4) Each Occurrence (Bodily Injury) \$50,000.00

 - 5) Each Occurrence (Property Damage) \$50,000.00

 - 6) Excess or Umbrella Liability \$3 Million
 - a. General Aggregate \$3 Million
 - b. Each Occurrence \$3 Million

NOTICE TO BIDDER: *Certificates of Insurance shall be submitted with the Contractor’s Bid.*

Mandatory Forms





NON-COLLUSION AFFIDAVIT

The following affidavit is to accompany the bid:

STATE OF _____

COUNTY OF _____

Owner, Partner or Officer of Firm

Company Name, Address, City and State

Being of lawful age, being first duly sworn, on oath says that he/she is the agent authorized by the bidder to submit the attached bid. Affiant further states as bidder, that they have not been a party to any collusion among bidders in restraint of competition by agreement to bid at a fixed price or to refrain from bidding. Affiant also states as bidder, that they have not been a party to any collusion with any officer of Marion County or any of their employees as to quantity, quality or price in the prospective contract; and that discussions have not taken place between bidders and any office of Marion County or any of their employees concerning exchange of money or other things of value for special consideration in submitting a sealed bid for:

Firm Name

Signature

Title

Subscribed and sworn to before me this _____ day of _____, 20____.

Notary Public [NOTARY SEAL]



**GEORGIA SECURITY AND IMMIGRATION COMPLIANCE ACT AFFIDAVIT
PRIMARY CONTRACTOR**

Name of Contracting Entity: _____

Proposal Title: _____

Proposal Date: _____

By executing this affidavit, the undersigned person or entity verifies its compliance with O.C.G.A. § 13-10-91, stating affirmatively that the individual, company, or corporation which is contracting with Marion County has registered with, is authorized to participate in, and is participating in the federal work authorization program commonly known as E-Verify, * in accordance with the applicable provisions and deadlines established in O.C.G.A. § 13-10-91.

The undersigned person or entity further agrees that it will continue to use the federal work authorization program throughout the contract period, and it will contract for the physical performance of services in satisfaction of such contract only with subcontractors who present an affidavit to the undersigned with the information required by O.C.G.A. § 13-10-91(b).

The undersigned person or entity further agrees to maintain records of such compliance and provide a copy of each such verification to Marion County at the time the subcontractor(s) is retained to perform such service.

EEV / E-Verify User Identification Number

Date of Authorization

BY: Authorized Officer or Agent
(Name of Person or Entity)

Date

Title of Authorized Officer or Agent

Printed Name of Authorized Officer or Agent

SUBSCRIBED AND SWORN BEFORE ME ON THIS THE
____ DAY OF _____, 20__

Notary Public

[NOTARY SEAL]



**GEORGIA SECURITY AND IMMIGRATION COMPLIANCE ACT AFFIDAVIT
SUB-CONTRACTOR**

Name of Sub-Contracting Entity: _____

Proposal Title: _____

Proposal Date: _____

By executing this affidavit, the undersigned person or entity verifies its compliance with O.C.G.A. § 13-10-91, stating affirmatively that the individual, company, or corporation which is contracting with Marion County has registered with, is authorized to participate in, and is participating in the federal work authorization program commonly known as E-Verify,* in accordance with the applicable provisions and deadlines established in O.C.G.A. § 13-10-91.

The undersigned person or entity further agrees that it will continue to use the federal work authorization program throughout the contract period, and it will contract for the physical performance of services in satisfaction of such contract only with subcontractors who present an affidavit to the undersigned with the information required by O.C.G.A. § 13-10-91(b).

The undersigned person or entity further agrees to maintain records of such compliance and provide a copy of each such verification to Marion County at the time the subcontractor(s) is retained to perform such service.

EEV / E-Verify User Identification Number

Date of Authorization

BY: Authorized Officer or Agent
(Name of Person or Entity)

Date

Title of Authorized Officer or Agent

Printed Name of Authorized Officer or Agent

SUBSCRIBED AND SWORN BEFORE ME ON THIS THE
____ DAY OF _____, 20__

[NOTARY SEAL]

Notary Public



EXECUTION OF BID

DATE: _____

The potential vendor certifies the following by placing an "X" in all blank spaces:

- ___ That this bid was signed by an authorized representative of the company.
- ___ That the potential Contractor/Vendor has determined the cost and availability of all materials and supplies associated with performing the services outlined herein.
- ___ That all costs associated with this project have been determined, including all direct and indirect costs.
- ___ That the potential vendor agrees to the conditions as set forth in this INVITATION TO BID with no exceptions.

Therefore, in compliance with the foregoing Invitation to Bid, and subject to all terms and conditions thereof, the undersigned offers and agrees, if this bid is accepted within sixty (60) days from the date of the opening, to furnish the services/products for the prices quoted within the time frame required. The undersigned offers and agrees to furnish any or all of the items upon which prices are quoted at the price set opposite each item, in the quantities described, delivered to the point(s) specified, in accordance with the terms and conditions set forth herein. The laws of the State of Georgia shall prevail concerning all purchases and services under this contract. I certify that I have read and understand the terms and conditions herein except as stated below. I further state that I am and/or my company is capable, able to, and will provide the requested products and/or service described herein. I am the owner or agent of the company stated below and am authorized and empowered to contract. By my signature on this ITB, I/we guarantee and certify that all items included in my bid meet or exceed specifications. I certify that this quotation is made without prior understanding, agreement, or connection with any corporation, firm or person submitting a quotation for the same materials, supplies, equipment, or services and is in all respects fair and without collusion or fraud. I understand collusive bidding is a violation of State and Federal Law and can result in fines, prison sentences, and civil damage awards. I agree to abide by all conditions of the quotation and certify that I am authorized to sign this quotation for the Contractor.

---Sign on next page----

Business Contact Representative

Operational Contact Representative

Vendor's Name

Federal ID #

Address

Phone

Fax

Email

Authorized Signature

Date

Typed Name & Title



ADDENDA ACKNOWLEDGEMENT

The vendor has examined and carefully studied the Invitation to Bid and the following Addenda, receipt of all of which is hereby acknowledged:

Addendum No. _____

Addendum No _____

Addendum No. _____

Addendum No. _____

Authorized Representative/Title
(Print or Type)

Authorized Representative
(Signature)

(Date)

Bidders must acknowledge any issued addenda. Bidders who fail to acknowledge the receipt of any addendum will result in the rejection of the offer if the addendum contained information which substantively changes the owner's requirements.