

REQUEST FOR PROPOSAL (RFP)

RFP25-0173

KIA CENTER LED DISPLAY UPGRADE



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City of Orlando
REQUEST FOR PROPOSAL (RFP)
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KIA CENTER LED DISPLAY UPGRADE

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1. INTRODUCTION

1.1. Summary

The City of Orlando (City) requests Proposals from interested and qualified Proposers to provide turn-key LED Display Upgrades to the City for Kia Center located at 400 West Church Street, Orlando, Florida 32801

A. Introduction - The Request for Proposal represents the minimum requirements to furnish a complete turn-key package as described in this RFP. The City has contracted with consultant Anthony James Partners (AJP) to provide input on this project including but not limited the scope of work, technical requirements, specifications, conceptual drawings, and LED market information.

1. The Contractor will provide the Work described in the RFP Documents on a 'turnkey basis.' Work contemplated by this RFP includes, unless otherwise indicated, manufacturing, supply, delivery, installation, labor, related services (including design) and testing of all equipment and materials necessary to install and operate the Kia Center Upgrades as described in the RFP Documents, and more particularly in the performance specifications included in the RFP Documents.
2. Proposers responding to this RFP must provide pricing for a complete turn-key installation, including pricing for the provision and installation of all items necessary to provide finished and fully operational systems. Materials, equipment, and related services required for the provision and installation of such a system, not expressly addressed in this RFP, are understood to be the responsibility of the Proposer.

B. General Description - The Contractor shall provide a complete, workable, and operational system including all labor, equipment, tools, material, engineering, supervision, licenses, insurance, and permits to engineer, manufacture, and install a fully integrated and operational LED Video Displays highlighted by the following:

1. LED Displays
 - a. Center Hung Primary Display
 - b. Center Hung Underbelly Displays
 - c. Ribbon Displays
 - d. Vomitory Displays
 - e. Corner Displays

- f. Exterior Displays
- g. Concourse Displays
- h. "O ZONE" Display

C. Definitions

1. "Proposer" shall mean each Vendor submitting a proposal in response to this RFP.
2. "Contractor" shall mean the Vendor that has been selected to provide products or services or both to the City.
3. "City" shall mean City of Orlando
4. "Code Authority having Jurisdiction" shall mean the office or Agency responsible for assuring the work's compliance with the State Building Code.
5. "Contract" shall mean any written contract entered between the City and Contractor following the award of a contract with respect to this project.
6. "Substantial Completion" – shall be defined as all work under the Contract has been substantially completed in accordance with the terms of the Contract and all systems are fully operational and ready for the intended use. Systems shall be installed, all rack equipment installed, all cabling completed, system has been commissioned and tested in accordance with applicable requirements of the Technical Specifications and the Contract. The project is ready for final punch list by the City and/or the City's designated representative.
7. "Guaranteed Completion" – shall be defined as all punch list items have been completed, Closeout Documentation has been turned over, and all work under the Contract is ready for final acceptance by The City once three (3) consecutive problem free events have been completed as defined by Section 5.35.E.
8. "RFP Documents" – refers to the request for proposals issued by the City and more specifically consisting of the RFP titled "Kia Center LED Display Upgrade" dated January 23, 2025 and any attachments, and addenda issued in writing following issuance of this RFP.
9. "Vendor" – refers to each entity receiving this RFP and from whom a proposal is being solicited.

10. “Contract Sum” refers to the compensation, including all other fees, costs, expenses, taxes and other amounts to be paid to the Contract for the Work.

1.2. [Background](#)

Since opening in October 2010, the Kia Center redefined the entertainment experience for fans and entertainers alike. This state-of-the-art arena is home to the NBA's Orlando Magic and ECHL's Orlando solar Bears while also playing to the biggest names in music. The arena has hosted numerous milestone events including NBA All-Star Weekend, NCAA March Madness, Wrestlemania 33 and sell-out concerts by the biggest names in the business like Paul McCartney, Ed Sheeran, Taylor Swift, Justin Timberlake and Billie Eilish.

Kia Center hosts roughly 225 events a year and welcomes more than 1.3 million patrons annually.

Learn more about the arena and its history by clicking the links below.

<https://www.kiacenter.com/arena-info>

1.3. [Contact Information](#)

Direct inquiries to the following:

Tara Urdininea

CPP, Purchasing Agent II
400 South Orange Avenue
Orlando, FL 32801

Email: tara.urdininea@orlando.gov

Phone: [\(407\) 246-2368](tel:(407)246-2368)

Department:

Orlando Venues

1.4. [Timeline](#)

The following is the scheduled calendar of events with important dates and times. Dates are subject to change by the Chief Procurement Officer (“CPO”) of the Procurement and Contracts Division or designee, at their sole discretion. If the Procurement and Contracts Division determines that it is necessary to change these dates or times prior to the Proposal due date, the change will be announced via an addendum.

Release Project Date	January 23, 2025
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Pre-Proposal Meeting (Mandatory)	January 29, 2025, 11:00am Kia Center 400 West Church Street, Suite 200 Conference Room Orlando, FL 32801
Question Submission Deadline	February 4, 2025, 5:00pm
Proposal Submission Deadline	February 24, 2025, 2:00pm JOIN THE VIRTUAL PROPOSAL OPENING. Online: https://teams.microsoft.com/join/19%3ameeting_MWJiYWMzYTctODMyZi00NWM2LTk0ZDQtMWFjOGYzOTA5OGE4%40thread.v2/0?context=%7b%22Tid%22%3a%227594da9b-294b-4acf-913b-d159ae921564%22%2c%22Oid%22%3a%2267b536ad-34cb-46e2-afe9-a0f9f437bd65%22%7d Or, call into the virtual meeting by dialing this phone number: +1 321-247-7568 Once dialed-in and prompted, enter the Conference ID: 276 186 493 123

2. REQUEST FOR PROPOSALS INFORMATION

The Procurement and Contracts Division is the official source to obtain information relating to City of Orlando solicitations. It is incumbent on the Proposer to obtain solicitation and current award information prior to and after the scheduled opening date of a Request for Proposals. Information is updated daily as it becomes available. An award, or recommendation of award, may be made at any time after the scheduled opening date of a Request for Proposals. You may obtain award and other solicitation information in a variety of ways:

- A. There are currently two Internet sites available to obtain RFP Selection Committee rankings, Notice of Intended Action for award and other information:
 1. The City of Orlando Procurement and Contracts Division's Website:
<http://www.orlando.gov/procurement/solicitations/> If you are interested in obtaining solicitation information, copy and paste the above link into your web

browser and click on View Current Bids. Please remember that you must keep your registration information up to date in order to continue to receive notifications of bidding opportunities that meet your commodity code selections.

2. Direct link to the City's e-Procurement Portal:

<https://procurement.opengov.com/portal/orlando>.

- B. You may visit the Procurement and Contracts Division, during normal business hours, to obtain award information, solicitation packages, addendums, and other documents. Our office is located at:

City of Orlando
Procurement and Contracts Division
400 South Orange Avenue, Fourth Floor
Orlando, Florida 32801

You may also call the Procurement and Contracts Division at (407) 246-2291, during normal business hours, to request award and other solicitation related information.

We appreciate your interest in doing business with the City Beautiful and wish you much success with your business ventures.

3. TERM OF CONTRACT

It is the intent of the City to award a Contract for a two (2) year term to begin upon approval and execution by the City. The Contract may, by mutual assent of the parties, be extended for seven (7) additional twelve (12) month periods or portions thereof, up to a cumulative total of one hundred twenty (120) months.

4. MANDATORY MINIMUM QUALIFICATIONS

The City seeks to contract with a contractor for the full performance of the work as described in this RFP and to obtain long-term service and support for all equipment supplied by the selected proposer. In an effort to ensure the chosen proposer has the long-term interests of the City in mind, the following mandatory minimum qualifications have been established. Subject to the City's right to waive minor irregularities, Proposers that do not meet the mandatory minimum qualifications will be deemed non-responsive and will not be considered for further evaluation.

- A. The Proposer shall provide a list of a minimum of five (5) facilities/locations (facility, contact name, title, address and current phone number) where the Proposer has provided equipment and services of comparable brand, size and scope within the last three (3) years.

- B. The Proposer shall provide a minimum of two (2) facility/locations (facility, contact name, title, address and current phone number) where the Proposer has provided equipment and services of comparable brand, size and scope that is at least five (5) years old.
- C. The Proposer shall be required to provide a Letter of Surety from their bonding agent, stating their ability to provide a 100% payment and performance bond if they are the successful proposer.
- D. The Proposer shall have a direct service employee or certified contractor capable of providing maintenance response within two (2) hours of a call for service.

5. SCOPE OF WORK AND TECHNICAL REQUIREMENTS

5.1. Description

- A. The Contractor will provide a turn-key installation of the displays, including all electrical and signal cable/conduit that is required. Contractor is required to provide the design based on their product offering and provide an engineered stamped drawing set as part of their proposal per Section 5.2.
- B. The Contractor shall be responsible for the removal and disposal of all displays, and equipment being replaced as part of the RFP.
- C. The Contractor shall be responsible for the provision and installation of any primary and secondary steel, catwalks, mounting brackets/hardware required. This includes all labor, materials, equipment; tools, transportation, and project management required for a complete and fully operational system(s).
- D. There is adequate power located in the catwalk above the center hung location. Contractor shall be responsible for all power and electrical distribution from demarcation point to the new system(s). Contractor shall provide all secondary power connections/terminations required to power new system(s). Contractor is responsible for providing stamped electrical drawings by a licensed electrical engineer in the State of Florida.
- E. Pathways from the control location to the catwalk above the center hung and existing ribbon displays currently exist. All additional conduit and raceways required to complete a path to each display locations shall be furnished and installed by Contractor. Contractor shall be responsible to furnish, install, and terminate all required cabling needed to make new system(s) complete and fully operational.

- F. A rendering package, Exhibit "2" titled AJP Drawing, is provided as part of this bid package. The illustrations are to be construed as conceptual and not for construction purposes.
- G. Contractor is responsible for supplying a complete and fully operational system as intended by the RFP documents and any subsequent addendums. Prior to entering into a contract for the project, bidder is responsible for notifying the City of any equipment omissions in the RFP documents that would prevent the completion of a fully operational system. If Contractor fails to notify the City of any equipment omissions, Contractor shall assume responsibility for providing the required equipment at no additional cost to the City.
- H. Contractor shall field verify all work site conditions, including dimensions and site lines prior to submitting shop drawings.
- I. The Contractor will be wholly responsible for any necessary logistic, staging, planning, etc. required to access and execute the work. This includes any demolition, clearing and put back necessary to access the project or to create staging or storage areas. The contractor shall return all existing conditions and improvements to a condition equal to the condition it was found upon mobilization.
- J. Contractor shall grant the City a license to use all proprietary software provided with this RFP for the life of the system.

5.2. General: Submittal Requirements

- A. Initial Submittals and Shop Drawings.
 - 1. Contractor shall be required to provide submittals and shop drawings to the City within thirty (30) calendar days of date shown on award notice, acknowledged with a binding letter of intent. Contractor shall be responsible to ensure that the dimensions and specifications of each component and all systems fit within the building allowances. The City and AJP must review and approve all submittal documents prior to the start of work. Contractor shall advise the City of any discrepancy that could affect installation. If Contractor fails to notify the City of any discrepancies, Contractor shall assume responsibility for providing the required equipment or correcting such discrepancies at no additional cost to the City. The following required submittals will be defined by guidelines established by the City and shall include but not be limited to:
 - a. Submit one electronic set of shop drawings in PDF and .dwg formats, product data and samples together in one package within fifteen (15)

calendar days of date shown on award notice to Contract and prior to ordering equipment.

- b. Provide a PDF Binder with a complete list of proposed equipment with reference to its corresponding specification paragraph number or equipment title in specification paragraph order. Denote all approved substitutions.
- c. Submit fabrication shop drawings for all displays including component weight and power calculations.
- d. Submit structural engineered drawings for all secondary steel framing required for this scope of work. Structural engineered drawings shall also include method of attachment for LED displays and all other signage elements required for this scope of work.
- e. Submit point-to-point wiring diagrams and typed wire lists identifying every connection. Include electronic devices such as switches, transformers, and terminal blocks. Indicate locations of all components. Identify cables by type, color, and wire numbers.
- f. Submit conduit riser diagrams showing required conduits and junction boxes along with types of quantities of cables to be contained in each conduit. Show details of weatherproofing, lightning protection and grounding, strain relief and cable support, fire stop protection, and wall penetrations through all rated partitions.
- g. Submit rack layouts indicating the proposed arrangement of mounted equipment including power junction box location. Rack layouts shall include front and rear views.
- h. Submit detail drawings of all custom fabricated items and approved equipment modifications. Include complete parts lists, schematic diagrams, and all dimensions required for proper assembly.
- i. LED population layout drawings shall be submitted for each backlit channel letter and/or signage element required under this scope of work. Photos, confirming LED lighting layout, shall be submitted for each backlit channel letter and/or signage element upon completion of fabrication and prior to shipping product to site.
- j. Submittal drawings shall indicate proposed color selections and finishes for all exposed surfaces and custom fabricated items. Submit actual color/finish samples, wall plates, and custom labels.

- k. Submit a list of all lower tier subcontractors and suppliers. List shall include lower tier subcontractor's qualifications indicating performance of similar work on past projects of this type and scope.
 - l. Submit a project schedule in Gantt chart format outlining equipment delivery dates and installation start and finish dates. Project schedule shall be broken down into sufficient detail (work task and duration) to permit the City to monitor installation progress on a daily basis.
 - m. Copies of all required business and contractor licenses.
 - n. Copies of proof of insurance.
 - o. Approval of submitted items indicates only the acceptance of the manufacturer and quality. Specific requirements, arrangements, and quantities shall comply with the intent of the Contract Documents as interpreted by the City unless specifically approved in writing.
 - p. Submittals that are incomplete, deviate significantly from the requirements of the Contract Documents, or contain numerous errors will be returned without review for rework and re-submittal, and may result in back charges to the contractor.
- B. Contract Closeout Submittal.
- 1. When the installation is substantially complete including the Testing Reports in Section 5.36, Contractor shall submit two (2) complete initial hard copy sets of contract closeout submittals to the City for review. After review and approval of initial set, the City shall return one (1) initial hard copy to Contractor with comments for updating. Contractor shall provide four (4) final sets of closeout submittals to the City and one (1) electronic copy in PDF format. Closeout submittals shall include, but not be limited to:
 - a. Project Record Drawings (As-Built Drawings) including final screen fabrication drawings, secondary steel structural drawings, electrical drawings, system block diagrams, rack layout drawings, custom fabricated signage drawings (final fabrication version), and LED population and/or fluorescent lighting layout drawings for custom fabricated signage.
 - b. A list of all equipment provided and its location within the facility. List shall include manufacturer name, model identifier, serial number, and any other pertinent information needed to obtain service, maintenance, and/or replacement.

- c. A list of all Subcontractors who performed work for Contractor during installation. List shall include company name, physical company address, phone number, and contact person(s).
 - d. Documentation certifying old video displays, matrix displays, signage elements and associated support structures that were demolished by Contractor prior to the installation of new equipment has been properly disposed of or recycled per local, provincial, and/or federal law(s).
 - e. Test reports from an independent testing and inspection agency certifying that bolted and/or welded connections for secondary structural steel meet the minimum requirements of the engineered structural drawings, the governing building code, or as required by the building official; whichever is more restrictive.
 - f. All testing reports as specified in Section 5.36 – Testing and Acceptance.
 - g. Test reports for all new fiber optic cable installed under this scope of work. Test reports shall indicate end to end signal loss does not exceed a maximum dB loss per Section 5.36.
 - h. Operation & Maintenance Manual.
2. Upon substantial completion and prior to on-site training with the City, Contractor shall provide four (4) final Operation & Maintenance Manuals (O&M Manuals). O&M Manuals shall have tab dividers and shall be logically organized to provide easy access to information without the need to research through entire manual. All documents provided in the O&M Manual shall be written in English and shall provide sufficient detail as to be understood by an individual with no knowledge of LED displays or the associated control equipment and/or operating systems. Contents of the O&M Manual shall include, but not be limited to:
- a. Table of Contents
 - b. Description / overview of system(s) including key features and operational procedures.
 - c. Full start up procedure for all control room rack equipment and LED display equipment written under the assumption that all equipment was in full powered off mode.

- d. Full shutdown procedure for all control room rack equipment and LED display equipment written under the assumption that the facility is in an extended power failure situation.
- e. Procedure for switching to back up LED display processors and back up graphics/animation servers.
- f. Troubleshooting procedures for all LED displays, LED display processors, graphics/animation servers, scoring systems, and all related equipment provided by Contractor. Troubleshooting procedures shall include demonstration photos and/or diagrams as required.
- g. Maintenance procedures for all LED displays, LED display processors, graphics/animation servers, scoring systems, and all related equipment provided by Contractor. Maintenance procedures shall include demonstration photos and/or diagrams as required. Contractor shall indicate whether maintenance procedures should be performed monthly, bi-annually, or annually.
- h. The City's Manuals for all third party and/or "off-the-shelf" type equipment provided by Contractor: e.g., KVM's, fiber modems, network switches/routers, and UPS battery backups.
- i. All third-party equipment and/or "off-the-shelf" equipment warranties and a notarized System Warranty.

5.3. General: Equipment General Specifications

- A. All equipment and materials, except the City furnished, shall be new and the latest version at the time of bid and shall conform to applicable UL, ULC, CSA or ANSI provisions. Re-manufactured or "B" stock equipment will not be accepted without prior written consent from the City. Evidence of unauthorized re-manufactured or "B" stock equipment on the project site will be deemed evidence of the contractor's failure to perform the work. Contractor shall take care during installation to prevent scratches, dents, chips or disfiguration of equipment and materials supplied. All damaged equipment and/or materials shall be repaired or replaced at the City's discretion. Contractor shall perform either option selected by the City at no additional cost to the City.
- B. Unless specified differently on the AJP Drawings included as Exhibit "2" of this RFP document, back lit channel letters and back lit fixed ad panels shall be illuminated as indicated below, which are the minimum acceptable product specifications. Contractor shall be responsible to ensure that the output of lighting is of sufficient lumens to clearly and successfully illuminate signage

elements when used in the facility under event lighting conditions. Hot spots or dark spots shall not be acceptable. Consideration shall be given to match the Kelvin temperature when various combinations of illumination methods are used for different signage elements (i.e. LED illumination mixed with Fluorescent illumination).

1. LED Illumination

- a. LED's shall be Principal LED Series or approved equal. LED's shall be placed at a maximum of three (3) inches on center throughout the letter stroke or fixed ad cabinet.
 - b. Multiple rows of LED's shall start no more than three (3) inches from returns.
 - c. Electrical connections and/or electrical boxes shall not be visible to public view.
 - d. Each sign will be individually controllable, on/off, and dimmable.
- C. Cabinets for channel letters and back lit fixed ad panels shall appear from the exterior to be seamless construction. Seams shall be filled and sanded smooth prior to application of final finish color. Visible fasteners or mounting brackets shall not be acceptable. Light leaks around cabinet or between cabinet and letter face or fixed ad face shall not be acceptable.
- D. All cabling [power and data] is to be labeled at each end of the cable with a description in English OR with a reference to a wire designation on a wiring diagram. This includes all cables internal to the displays, all cables between displays and control room, and all cables internal to the control room. These diagrams must be part of the Project documentation submitted to the City at time of acceptance.
- E. Each device shall meet all of its published manufacturer's specifications. Verify performance as required.
- F. Provide an uninterruptable power supply (UPS) at the bottom of each rack supplied by Contractor. UPS shall have the capability of providing power to all equipment within the rack for a period of 15 minutes in the event of a power failure at the facility.
- G. Provide engraved self-adhesive phenolic labels at the front and rear of all rack-mounted signal processing equipment. Mount labels on the equipment chassis and attach in a neat and permanent manner. Embossed label will not be

accepted. Label equipment with schematic enumeration reference, and with descriptive information regarding its function or area it is serving. Similarly, provide engraved labels at the rear only of equipment mounted in furniture consoles.

- H. All engraving shall be 1/8" block lettering unless noted otherwise. On dark panels or pushbuttons, letters shall be white. Letters shall be black on stainless steel, brushed natural aluminum plates or light-colored pushbuttons.
- I. Per IEC-268 standard, all XLR connectors not mounted on equipment shall be wired pin 2 hot (high), pin 3 low, and pin 1 screen (shield).
- J. Mounting Hardware exposed to the weather shall be aluminum, brass epoxy painted galvanized steel or stainless steel. Apply corrosion inhibitor to all threaded fittings.
- K. Contractor shall exercise care when wiring racks to avoid damaging cables and equipment. Contractor shall install grommets around cut-outs and knockouts where conduit or chase nipples are not installed.
- L. Equipment Racks shall have a ground buss installed in each rack. Ground buss shall be insulated from the rack. Attach equipment rack to ground buss at one point using #4 insulated copper wire. Ground any equipment chassis without a three-conductor power cord directly to the buss bar using #12 insulated copper wire. Tie each and every power receptacle ground contact to the buss bar using #12 insulated copper wire. Interconnect signal cables shall be routed from junction boxes through metallic flexible conduit(s) (1" to 2" diameter) as appropriate. Flexible conduit shall be insulated from racks by approved insulating bushings.
- M. Power wiring and signal/data wiring shall be installed on opposite sides of rack. Contractor may determine which side is using for power and which side for signal. Method shall be kept the same for entire installation if multiple racks are required. Contractor shall exercise care when wiring racks to avoid damaging cables and equipment.

5.4. [General: Quality Assurance](#)

- A. All requirements of the latest published editions of the following standards shall apply, unless otherwise noted. In the event of conflict between cited or referenced standards, the more stringent shall govern.
 - 1. National Electric Code (NEC).
 - 2. National Electrical Manufacturers Association (NEMA)

3. American National Safety Institute (ANSI)
 4. Occupational Safety and Health Administration (OSHA)
 5. American Iron and Steel Institute (AISI)
 6. Underwriters Laboratories (UL)
 7. Federal Communications Commission (F.C.C.) Rules and Regulations, Part 76.
 8. Society of Cable Television Engineers (S.C.T.E.)
 9. Society of Motion Picture and Television Engineers (S.M.P.T.E.)
 10. American Society of Testing Materials (A.S.T.M.)
 11. National Cable Television Association (N.C.T.A)
 12. Electronic Industries Association (E.I.A.)
 13. Telecommunications Industries Association (T.I.A.)
 14. Florida Building Code – Most Current Revision
- B. Review all architectural, civil, structural, mechanical, electrical, and other project documents relative to this work.
- C. Verify all dimensions and site conditions prior to starting work.
- D. Coordinate the specified work with all other trades.
- E. Maintain a competent supervisor and supporting technical personnel, acceptable to the City during the entire installation. Change of supervisor during the project shall not be permitted without prior written approval from The City.
- F. Provide all items not indicated on the drawings or mentioned in the specifications that are necessary, required, or appropriate for this work to realize a complete and fully operational system that performs in stable and safe manner.
- G. Review project documentation and continuously make known any conflicts discovered and provide all items necessary to complete this work to the satisfaction of the City without additional expense. In all cases where a device or item or equipment is referred to in singular number or without quantity, each such reference shall apply to as many such devices or items as are required to complete the work.

- H. Provide additional support or positioning members as required for the proper installation and operation of equipment, materials and devices provided as part of this work as approved by the City, without additional cost to the City.
- I. Regularly examine all construction, and the work of others, which may affect Contractors work to ensure proper conditions exist at site for the equipment and devices before their manufacture, fabrication, or installation. Contractor shall be responsible for the proper fitting of the systems, equipment, materials, and devices provided as part of this work.
- J. Promptly notify the City in writing of any difficulties that may prevent proper coordination or timely completion of this work. Failure to do so shall constitute acceptance of construction as suitable in all ways to receive this work, except for defects that may develop in the work of others after its execution.
- K. After installation, submit photographs showing cable entries and terminations within equipment racks, enclosures, and pedestals at the job site.
- L. Vendor is required to submit weekly progress reports with detailed pictures during the actual installation / construction period.

5.5. [General: Warranty and Service](#)

- A. Contractor shall warrant labor and materials for twenty-four (24) months following the date of Final Acceptance.
- B. During the warranty period the system shall be free of defects and deficiencies and conform to the drawings and specifications with respect to the quality, function, and characteristics stated.
- C. Contractor shall repair or replace defects that occur in labor or materials within the warranty period. If repair is affected using the City's spare parts allotment, Contractor shall replenish all parts used to keep the City's inventory at the amount required by the contract.
- D. On-site labor shall be included during the warranty period for all work including simple component replacement. Simple component replacement shall be defined as lighting unit or power supply replacement or the replacement of an internal display signal cable that does not require tools to perform the cable replacement.
- E. Failed parts shall be returned to the Contractor for repair at a service facility located in the United States. Contractor shall identify the location of its service facility in the documentation provided when submitting a bid for this work.

- F. The Contractor shall replace failed parts that cannot be repaired.
- G. Upon receipt of a failed part, Contractor shall return a repaired or replacement part to the City within fifteen (15) business days from receipt of failed part.
- H. Contractor shall supply at least one local service employee or local authorized service agent for servicing and repair of all equipment during the warranty period. Local service employee or local authorized service agent shall be located within 75 miles of the City's facility.
- I. The local service employee or local authorized service agent shall be entity responsible for providing the following emergency response availability:
 - 1. Telephone service assistance and technical support from 8am to 11pm local time at the City's facility, 7-days per week.
 - 2. Answer all service calls and requests for information within one (1) hour during the warranty period and provide on-site repair service within 24 hours.
 - 3. A parts exchange program, including same day shipment of exchange parts. The manufacturer shall keep a ready stock of key assemblies available to ship out upon notice of a parts failure if part is not available in spare parts inventory at The City's facility.
 - 4. The advance replacement should contain all of the shipping information and packaging necessary to return the defective part or assembly back to Contractor at no cost to the City.
- J. Warranty shall cover all equipment, including processors, controllers, operating systems, and software.
- K. Warranty shall include two annual on-site system check-ups by a qualified technician who is a full-time employee of the Contractor. Visit to occur approximately 2-3 weeks prior to the start of the second and third anniversaries of the warranty period start date or as determined by the City.
- L. Check-up shall include all regular maintenance; including filter changes, a complete inspection of all systems, brightness level readings of LED displays, parts replacement where required and a complete written report of all findings.
- M. All extended warranty pricing requested in this RFP shall include the same requirements as stated in this section unless specifically excluded on the bid form.
- N. In addition to the base warranty, Contractor will provide a guarantee against systemic parts failures for a period of seven years from final acceptance. A

systemic parts failure is defined as a failure of more than 5% of a particular part or component in a display, over a 12-month period. If it is determined that a systemic parts failure has occurred, Contractor will be responsible for all costs to remedy the problem to the satisfaction of the City.

- O. Furthermore, if a particular system problem that resolves without a repair, presents itself in more than 2 consecutive days, Contractor will be responsible for providing on-site support as well as system diagnosis, until the problem is identified and resolved. Some examples of this would be a signal flash, flickering, module(s) outage.

5.6. General: Spare Parts

- A. Contractor shall supply a spare parts inventory containing 2% spare lighting units, 2% spare power supplies, and a minimum of one (1) of every other critical component including fiber modems. Spare parts inventory shall be based on quantity of components used to manufacture the display(s). Contractor shall provide proposed spare parts inventory as part of the bid submission.
- B. At the time of final sign-off, Contractor shall supply the specified spare parts inventory regardless of spare parts used during initial “shake out”, “burn in” and/or testing of newly installed displays.
- C. Manufacturer of the LED system components shall continue to make all parts necessary for the continued functioning of the system for a minimum of seven (7) years after acceptance of this project. Furthermore, upon end of life of any component used in the LED displays, that is not replaced by a “backwards compatible” component, Manufacturer shall notify the City of end of life status being given to components of this system, and shall give the City an opportunity to buy spare parts from stock or a last production run, at then commercially viable prices.

5.7. Products: Primary Center Hung Displays (Sidelines)

- A. LED Supplier: Only Nichia, Cree, Multi-Color, Sansi, Nation Star & Sinyopto LED's will be accepted. Gold wire bonds required. In accordance with the Joint Electron Engineering Council (JEDEC) Numbering System, all SMD (Surface Mount Device) Codes shall be made available prior to fabrication of LED cabinets.
- B. Quantity – Two (2) Indoor Video Displays – HDR Capable.
- C. Size – 27' tall by 55' wide.
- D. Pixel Resolution: 4mm physical pixel resolution.

- E. Minimum Resolution: 2064 x 4192 based on maximum pixel pitch of 4mm.
- F. Minimum Brightness: 1200nits (100% white with automatic color-correction “on”) at startup.
- G. System must maintain a minimum brightness level of 1000 nits throughout the first 10,000 hours of use or 36 months from the time of acceptance, whichever is longer.
- H. Display’s intensity shall be adjustable to a minimum of 4,096 levels.
- I. Minimum 4,096 levels of intensity for each color (red, blue, pure green) 12-bit processing.
- J. 4,500°-9,000° Kelvin color temperature. Color temperature shall remain constant across specified horizontal and vertical viewing angles.
- K. Refresh rate shall be greater than 3,840 +Hz.
- L. Video frame rate at or greater than 60 frames per second.
- M. Contrast ratio shall be greater than 1200:1.
- N. IP rating shall be no less than 66 front and 54 rear.
- O. Service accessibility for all components of the displays shall be from the front and rear.
- P. Pixel to Pixel Variation:
 - 1. 95% or more of pixels within each module must have a luminance within +/- 4% of the mean luminance for the module.
 - 2. The average luminance of a column or row of pixels at the edge of a module or panel must be within +/- 2% of the average luminance of the module or panel.
 - 3. 95% or more of the pixels within each module must have a chromaticity value, $\Delta u'v'$, within +/- 0.006 of the mean chromaticity value for the module.
- Q. Module to Module Variation:
 - 1. 100% of the modules in a screen must have a luminance within +/- 4% of the mean luminance for the screen.
 - 2. 100% of the adjacent modules (i.e., modules sharing a border) in a screen must have a luminance within +/- 3% of each other.

- 3. 100% of the modules in a screen must have a chromaticity value, $\Delta u'v'$, within ± 0.006 of the mean chromaticity value for the screen.
- 4. 100% of the adjacent modules in a screen must have a chromaticity value, $\Delta u'v'$, within ± 0.003 of each other
- R. All uniformity specifications above apply across all specified minimum horizontal and vertical viewing angles and are to be met for an all White, all Red, all Green, and all Blue screen display.
- S. All listed specifications must be maintained throughout the first 10,000 hours of use or 36 months from the time of acceptance, whichever is longer.
- T. Minimum of a $140^\circ (\pm 70^\circ)$ horizontal viewing angle. Defined at 50% of full intensity, with automatic color-correction "on", at stated angle maximum.
- U. Minimum of a $140^\circ (\pm 70^\circ)$ vertical viewing angle. Defined at 50% of full intensity, with automatic color-correction "on", at stated angle maximum.

5.8. [Products: Primary Center Hung Displays \(Endzones\)](#)

- A. LED Supplier: Only Nichia, Cree, Multi-Color, Sansi, Nation Star & Sinyopto LED's will be accepted. Gold wire bonds required. In accordance with the Joint Electron Engineering Council (JEDC) Numbering System, all SMD (Surface Mount Device) Codes shall be made available prior to fabrication of LED cabinets.
- B. Quantity – Two (2) Indoor Video Displays – HDR Capable
- C. Size – 27' tall by 32.5' wide.
- D. Pixel Resolution: 4mm physical pixel resolution.
- E. Minimum Resolution: 2064 x 2480 based on maximum pixel pitch of 4mm.
- F. Minimum Brightness: 1200nits (100% white with automatic color-correction "on") at startup.
- G. System must maintain a minimum brightness level of 1000 nits throughout the first 10,000 hours of use or 36 months from the time of acceptance, whichever is longer.
- H. Display's intensity shall be adjustable to a minimum of 4,096 levels.
- I. Minimum 4,096 levels of intensity for each color (red, blue, pure green) 12-bit processing.

- J. 4,500°-9,000° Kelvin color temperature. Color temperature shall remain constant across specified horizontal and vertical viewing angles.
- K. Refresh rate shall be greater than 3,840 +Hz.
- L. Video frame rate at or greater than 60 frames per second.
- M. Contrast ratio shall be greater than 1200:1.
- N. IP rating shall be no less than 66 front and 54 rear.
- O. Service accessibility for all components of the displays shall be from the front and rear.
- P. Pixel to Pixel Variation:
 - 1. 95% or more of pixels within each module must have a luminance within +/- 4% of the mean luminance for the module.
 - 2. The average luminance of a column or row of pixels at the edge of a module or panel must be within +/- 2% of the average luminance of the module or panel.
 - 3. 95% or more of the pixels within each module must have a chromaticity value, $\Delta u'v'$, within +/- 0.006 of the mean chromaticity value for the module.
- Q. Module to Module Variation:
 - 1. 100% of the modules in a screen must have a luminance within +/- 4% of the mean luminance for the screen.
 - 2. 100% of the adjacent modules (i.e., modules sharing a border) in a screen must have a luminance within +/- 3% of each other.
 - 3. 100% of the modules in a screen must have a chromaticity value, $\Delta u'v'$, within +/- 0.006 of the mean chromaticity value for the screen.
 - 4. 100% of the adjacent modules in a screen must have a chromaticity value, $\Delta u'v'$, within +/- 0.003 of each other.
- R. All uniformity specifications above apply across all specified minimum horizontal and vertical viewing angles and are to be met for an all White, all Red, all Green, and all Blue screen display.
- S. All listed specifications must be maintained throughout the first 10,000 hours of use or 36 months from the time of acceptance, whichever is longer.
- T. Minimum of a 140° ($\pm 70^\circ$) horizontal viewing angle. Defined at 50% of full intensity, with automatic color-correction "on", at stated angle maximum.

- U. Minimum of a 140° (±70°) vertical viewing angle. Defined at 50% of full intensity, with automatic color-correction “on”, at stated angle maximum.

5.9. [Products: Center Hung Underbelly LED Displays \(Sidelines\)](#)

- A. LED Supplier: Only Nichia, Cree, Multi-Color, Sansi, Nation Star & Sinyopto LED's will be accepted. Gold wire bonds required. In accordance with the Joint Electron Engineering Council (JEDC) Numbering System, all SMD (Surface Mount Device) Codes shall be made available prior to fabrication of LED cabinets.
- B. Quantity: Two (2) Indoor Video Displays HDR Capable.
- C. Size – 11.5' tall x 28' wide.
- D. Pixel Resolution: 2.5mm physical pixel resolution.
- E. Minimum Resolution: 1408 x 3424 based on maximum pixel pitch of 2.5mm.
- F. Minimum Brightness: 1200nits (100% white with automatic color-correction “on”) at startup.
- G. System must maintain a minimum brightness level of 1000 nits throughout the first 10,000 hours of use or 36 months from the time of acceptance, whichever is longer.
- H. Display's intensity shall be adjustable to a minimum of 4,096 levels.
- I. Minimum 4,096 levels of intensity for each color (red, blue, pure green) 12-bit processing.
- J. 4,500°-9,000° Kelvin color temperature. Color temperature shall remain constant across specified horizontal and vertical viewing angles.
- K. Refresh rate shall be greater than 3,840+Hz.
- L. Video frame rate at or greater than 60 frames per second.
- M. Contrast ratio shall be greater than 1200:1.
- N. IP rating shall be no less than 66 front and 54 rear.
- O. Service accessibility for all components of the displays shall be from the front.
- P. Pixel to Pixel Variation:
 - 1. 95% or more of pixels within each module must have a luminance within +/- 4% of the mean luminance for the module.

2. The average luminance of a column or row of pixels at the edge of a module or panel must be within +/- 2% of the average luminance of the module or panel.
3. 95% or more of the pixels within each module must have a chromaticity value, $\Delta u'v'$, within +/- 0.006 of the mean chromaticity value for the module.

Q. Module to Module Variation:

1. 100% of the modules in a screen must have a luminance within +/- 4% of the mean luminance for the screen.
 2. 100% of the adjacent modules (i.e., modules sharing a border) in a screen must have a luminance within +/- 3% of each other.
 3. 100% of the modules in a screen must have a chromaticity value, $\Delta u'v'$, within +/- 0.006 of the mean chromaticity value for the screen.
 4. 100% of the adjacent modules in a screen must have a chromaticity value, $\Delta u'v'$, within +/- 0.003 of each other.
- R. All uniformity specifications above apply across all specified minimum horizontal and vertical viewing angles and are to be met for an all White, all Red, all Green, and all Blue screen display.
- S. All listed specifications must be maintained throughout the first 10,000 hours of use or 36 months from the time of acceptance, whichever is longer.
- T. Minimum of a 140° ($\pm 70^\circ$) horizontal viewing angle. Defined at 50% of full intensity, with automatic color-correction “on”, at stated angle maximum.
- U. Minimum of a 140° ($\pm 70^\circ$) vertical viewing angle. Defined at 50% of full intensity, with automatic color-correction “on”, at stated angle maximum.

5.10. [Products: Center Hung Centerbelly LED Display \(Endzones\)](#)

- A. LED Supplier: Only Nichia, Cree, Multi-Color, Sansi, Nation Star & Sinyopto LED's will be accepted. Gold wire bonds required. In accordance with the Joint Electron Engineering Council (JEDC) Numbering System, all SMD (Surface Mount Device) Codes shall be made available prior to fabrication of LED cabinets.
- B. Quantity: Two (2) Indoor Video Displays HDR Capable.
- C. Size – 11.5' tall x 18' wide.
- D. Pixel Resolution: 2.5mm physical pixel resolution.

- E. Minimum Resolution: 1408 x 2208 based on maximum pixel pitch of 2.5mm.
- F. Minimum Brightness: 1200nits (100% white with automatic color-correction “on”) at startup.
- G. System must maintain a minimum brightness level of 1000 nits throughout the first 10,000 hours of use or 36 months from the time of acceptance, whichever is longer.
- H. Display’s intensity shall be adjustable to a minimum of 4,096 levels.
- I. Minimum 4,096 levels of intensity for each color (red, blue, pure green) 12-bit processing.
- J. 4,500°-9,000° Kelvin color temperature. Color temperature shall remain constant across specified horizontal and vertical viewing angles.
- K. Refresh rate shall be greater than 3,840+Hz.
- L. Video frame rate at or greater than 60 frames per second.
- M. Contrast ratio shall be greater than 1200:1.
- N. IP rating shall be no less than 66 front and 54 rear.
- O. Service accessibility for all components of the displays shall be from the front.
- P. Pixel to Pixel Variation:
 - 1. 95% or more of pixels within each module must have a luminance within +/- 4% of the mean luminance for the module.
 - 2. The average luminance of a column or row of pixels at the edge of a module or panel must be within +/- 2% of the average luminance of the module or panel.
 - 3. 95% or more of the pixels within each module must have a chromaticity value, $\Delta u'v'$, within +/- 0.006 of the mean chromaticity value for the module.
- Q. Module to Module Variation:
 - 1. 100% of the modules in a screen must have a luminance within +/- 4% of the mean luminance for the screen.
 - 2. 100% of the adjacent modules (i.e., modules sharing a border) in a screen must have a luminance within +/- 3% of each other.
 - 3. 100% of the modules in a screen must have a chromaticity value, $\Delta u'v'$, within +/- 0.006 of the mean chromaticity value for the screen.

- 4. 100% of the adjacent modules in a screen must have a chromaticity value, $\Delta u'v'$, within +/- 0.003 of each other.
- R. All uniformity specifications above apply across all specified minimum horizontal and vertical viewing angles and are to be met for an all White, all Red, all Green, and all Blue screen display.
- S. All listed specifications must be maintained throughout the first 10,000 hours of use or 36 months from the time of acceptance, whichever is longer.
- T. Minimum of a 140° ($\pm 70^\circ$) horizontal viewing angle. Defined at 50% of full intensity, with automatic color-correction “on”, at stated angle maximum.
- U. Minimum of a 140° ($\pm 70^\circ$) vertical viewing angle. Defined at 50% of full intensity, with automatic color-correction “on”, at stated angle maximum.

5.11. Products: Alternate 1: Centerhung Centerbelly Display

- A. LED Supplier: Only Nichia, Cree, Multi-Color, Sansi, Nation Star & Sinyopto LED's will be accepted. Gold wire bonds required. In accordance with the Joint Electron Engineering Council (JEDC) Numbering System, all SMD (Surface Mount Device) Codes shall be made available prior to fabrication of LED cabinets.
- B. Quantity: One (1) Indoor Video Displays HDR Capable.
- C. Size – 18' tall x 18' wide.
- D. Pixel Resolution: 2.5mm physical pixel resolution.
- E. Minimum Resolution: 2194 x 2194 based on maximum pixel pitch of 2.5mm.
- F. Minimum Brightness: 1200nits (100% white with automatic color-correction “on”) at startup.
- G. System must maintain a minimum brightness level of 1000 nits throughout the first 10,000 hours of use or 36 months from the time of acceptance, whichever is longer.
- H. Display's intensity shall be adjustable to a minimum of 4,096 levels.
- I. Minimum 4,096 levels of intensity for each color (red, blue, pure green) 12-bit processing.
- J. 4,500°-9,000° Kelvin color temperature. Color temperature shall remain constant across specified horizontal and vertical viewing angles.
- K. Refresh rate shall be greater than 3,840+Hz.

- L. Video frame rate at or greater than 60 frames per second.
- M. Contrast ratio shall be greater than 1200:1.
- N. IP rating shall be no less than 66 front and 54 rear.
- O. Service accessibility for all components of the displays shall be from the front.
- P. Pixel to Pixel Variation:
 - 1. 95% or more of pixels within each module must have a luminance within +/- 4% of the mean luminance for the module.
 - 2. The average luminance of a column or row of pixels at the edge of a module or panel must be within +/- 2% of the average luminance of the module or panel.
 - 3. 95% or more of the pixels within each module must have a chromaticity value, $\Delta u'v'$, within +/- 0.006 of the mean chromaticity value for the module.
- Q. Module to Module Variation:
 - 1. 100% of the modules in a screen must have a luminance within +/- 4% of the mean luminance for the screen.
 - 2. 100% of the adjacent modules (i.e., modules sharing a border) in a screen must have a luminance within +/- 3% of each other.
 - 3. 100% of the modules in a screen must have a chromaticity value, $\Delta u'v'$, within +/- 0.006 of the mean chromaticity value for the screen.
 - 4. 100% of the adjacent modules in a screen must have a chromaticity value, $\Delta u'v'$, within +/- 0.003 of each other.
- R. All uniformity specifications above apply across all specified minimum horizontal and vertical viewing angles and are to be met for an all White, all Red, all Green, and all Blue screen display.
- S. All listed specifications must be maintained throughout the first 10,000 hours of use or 36 months from the time of acceptance, whichever is longer.
- T. Minimum of a 140° ($\pm 70^\circ$) horizontal viewing angle. Defined at 50% of full intensity, with automatic color-correction "on", at stated angle maximum.
- U. Minimum of a 140° ($\pm 70^\circ$) vertical viewing angle. Defined at 50% of full intensity, with automatic color-correction "on", at stated angle maximum.

5.12. [Products: Ribbon Displays](#)

- A. LED Supplier: Only Nichia, Cree, Multi-Color, Sansi, Nation Star & Sinyopto LED's will be accepted. Gold wire bonds required. In accordance with the Joint Electron Engineering Council (JEDEC) Numbering System, all SMD (Surface Mount Device) Codes shall be made available prior to fabrication of LED cabinets.
- B. Quantity: Four (4) Indoor Video Displays HDR Capable.
- C. Sizes and Detailed Quantities:
- D. Upper 360 Ribbon – 2.6' tall x 1102' wide – Qty 1
- E. Lower Horseshoe Ribbon 2.6' tall x 700' wide – Qty 1
- F. Partnership Activation Ribbons 2.6' tall x 41.5' wide – Qty 2
- G. Pixel Resolution: 10mm physical pixel resolution.
- H. Minimum Resolution: 80 x 33600, 80 x 21344 and 80 x 1264 based on maximum pixel pitch of 10mm.
- I. Minimum Brightness: 1200nits (100% white with automatic color-correction "on") at startup.
- J. System must maintain a minimum brightness level of 1000 nits throughout the first 10,000 hours of use or 36 months from the time of acceptance, whichever is longer.
- K. Display's intensity shall be adjustable to a minimum of 4,096 levels.
- L. Minimum 4,096 levels of intensity for each color (red, blue, pure green) 12-bit processing.
- M. 4,500°-9,000° Kelvin color temperature. Color temperature shall remain constant across specified horizontal and vertical viewing angles.
- N. Refresh rate shall be greater than 3,840+Hz.
- O. Video frame rate at or greater than 60 frames per second.
- P. Contrast ratio shall be greater than 1200:1.
- Q. IP rating shall be no less than 66 front and 54 rear.
- R. Service accessibility for all components of the displays shall be from the top and front.
- S. Pixel to Pixel Variation:

1. 95% or more of pixels within each module must have a luminance within +/- 4% of the mean luminance for the module.
2. The average luminance of a column or row of pixels at the edge of a module or panel must be within +/- 2% of the average luminance of the module or panel.
3. 95% or more of the pixels within each module must have a chromaticity value, $\Delta u'v'$, within +/- 0.006 of the mean chromaticity value for the module.

T. Module to Module Variation:

1. 100% of the modules in a screen must have a luminance within +/- 4% of the mean luminance for the screen.
2. 100% of the adjacent modules (i.e., modules sharing a border) in a screen must have a luminance within +/- 3% of each other.
3. 100% of the modules in a screen must have a chromaticity value, $\Delta u'v'$, within +/- 0.006 of the mean chromaticity value for the screen.
4. 100% of the adjacent modules in a screen must have a chromaticity value, $\Delta u'v'$, within +/- 0.003 of each other.

U. All uniformity specifications above apply across all specified minimum horizontal and vertical viewing angles and are to be met for an all White, all Red, all Green, and all Blue screen display.

V. All listed specifications must be maintained throughout the first 10,000 hours of use or 36 months from the time of acceptance, whichever is longer.

W. Minimum of a 140° ($\pm 70^\circ$) horizontal viewing angle. Defined at 50% of full intensity, with automatic color-correction "on", at stated angle maximum.

X. Minimum of a 140° ($\pm 70^\circ$) vertical viewing angle. Defined at 50% of full intensity, with automatic color-correction "on", at stated angle maximum.

5.13. [Products: Vomitory Displays](#)

- A. LED Supplier: Only Nichia, Cree, Multi-Color, Sansi, Nation Star & Sinyopto LED's will be accepted. Gold wire bonds required. In accordance with the Joint Electron Engineering Council (JEDC) Numbering System, all SMD (Surface Mount Device) Codes shall be made available prior to fabrication of LED cabinets.
- B. Quantity: Twenty-Three (23) Indoor Video Displays HDR Capable.
- C. Sizes and detailed quantities:

1. Event Level - 2.5' tall x 13.2' wide, Qty 4.
 2. Mid-Level – 1.4' tall x 5' wide, Qty 4.
 3. Upper Level – 2.5' tall x 8' wide, Qty 15
- D. Pixel Resolution: 4mm physical pixel resolution.
- E. Minimum Resolution: 192 x 1008, 112 x 384, and 192 x 608 based on maximum pixel pitch of 4mm.
- F. Minimum Brightness: 1200nits (100% white with automatic color-correction “on”) at startup.
- G. System must maintain a minimum brightness level of 1000 nits throughout the first 10,000 hours of use or 36 months from the time of acceptance, whichever is longer.
- H. Display’s intensity shall be adjustable to a minimum of 4,096 levels.
- I. Minimum 4,096 levels of intensity for each color (red, blue, pure green) 12-bit processing.
- J. 4,500°-9,000° Kelvin color temperature. Color temperature shall remain constant across specified horizontal and vertical viewing angles.
- K. Refresh rate shall be greater than 3,840 +Hz.
- L. Video frame rate at or greater than 60 frames per second.
- M. Contrast ratio shall be greater than 1200:1.
- N. IP rating shall be no less than 66 front and 54 rear.
- O. Service accessibility for all components of the displays shall be from the top and front.
- P. Pixel to Pixel Variation:
1. 95% or more of pixels within each module must have a luminance within +/- 4% of the mean luminance for the module.
 2. The average luminance of a column or row of pixels at the edge of a module or panel must be within +/- 2% of the average luminance of the module or panel.
 3. 95% or more of the pixels within each module must have a chromaticity value, $\Delta u'v'$, within +/- 0.006 of the mean chromaticity value for the module.
- Q. Module to Module Variation:

1. 100% of the modules in a screen must have a luminance within +/- 4% of the mean luminance for the screen.
 2. 100% of the adjacent modules (i.e., modules sharing a border) in a screen must have a luminance within +/- 3% of each other.
 3. 100% of the modules in a screen must have a chromaticity value, $\Delta u'v'$, within +/- 0.006 of the mean chromaticity value for the screen.
 4. 100% of the adjacent modules in a screen must have a chromaticity value, $\Delta u'v'$, within +/- 0.003 of each other.
- R. All uniformity specifications above apply across all specified minimum horizontal and vertical viewing angles and are to be met for an all White, all Red, all Green, and all Blue screen display.
- S. All listed specifications must be maintained throughout the first 10,000 hours of use or 36 months from the time of acceptance, whichever is longer.
- T. Minimum of a 140° ($\pm 70^\circ$) horizontal viewing angle. Defined at 50% of full intensity, with automatic color-correction “on”, at stated angle maximum.
- U. Minimum of a 140° ($\pm 70^\circ$) vertical viewing angle. Defined at 50% of full intensity, with automatic color-correction “on”, at stated angle maximum.

5.14. [Products: Alternate 2: Decreased Resolution Vomitory Displays](#)

- A. LED Supplier: Only Nichia, Cree, Multi-Color, Sansi, Nation Star & Sinyopto LED's will be accepted. Gold wire bonds required. In accordance with the Joint Electron Engineering Council (JEDC) Numbering System, all SMD (Surface Mount Device) Codes shall be made available prior to fabrication of LED cabinets.
- B. Quantity: Twenty-Three (23) Indoor Video Displays HDR Capable.
- C. Sizes and detailed quantities:
1. Event Level - 2.5' tall x 13.2' wide, Qty 4
 2. Mid-Level – 1.4' tall x 5' wide, Qty 4
 3. Upper Level – 2.5' tall x 8' wide, Qty 15
- D. Pixel Resolution: 10mm physical pixel resolution.
- E. Minimum Resolution: 80 x 400, 48 x 160, and 80 x 240 based on maximum pixel pitch of 10mm.

5.15. Products: Suspended Corner Displays

- A. LED Supplier: Only Nichia, Cree, Multi-Color, Sansi, Nation Star & Sinyopto LED's will be accepted. Gold wire bonds required. In accordance with the Joint Electron Engineering Council (JEDEC) Numbering System, all SMD (Surface Mount Device) Codes shall be made available prior to fabrication of LED cabinets.
- B. Quantity: Four (4) Indoor Video Displays HDR Capable.
- C. Size – 10' tall x 80' wide.
- D. Pixel Resolution: 10mm physical pixel resolution.
- E. Minimum Resolution: 304 x 2432, based on maximum pixel pitch of 10mm.
- F. Minimum Brightness: 1200nits (100% white with automatic color-correction "on") at startup.
- G. System must maintain a minimum brightness level of 1000 nits throughout the first 10,000 hours of use or 36 months from the time of acceptance, whichever is longer.
- H. Display's intensity shall be adjustable to a minimum of 4,096 levels.
- I. Minimum 4,096 levels of intensity for each color (red, blue, pure green) 12-bit processing.
- J. 4,500°-9,000° Kelvin color temperature. Color temperature shall remain constant across specified horizontal and vertical viewing angles.
- K. Refresh rate shall be greater than 3,840 +Hz.
- L. Video frame rate at or greater than 60 frames per second.
- M. Contrast ratio shall be greater than 1200:1.
- N. IP rating shall be no less than 66 front and 54 rear.
- O. Service accessibility for all components of the displays shall be from the front.
- P. Pixel to Pixel Variation:
 - 1. 95% or more of pixels within each module must have a luminance within +/- 4% of the mean luminance for the module.
 - 2. The average luminance of a column or row of pixels at the edge of a module or panel must be within +/- 2% of the average luminance of the module or panel.

3. 95% or more of the pixels within each module must have a chromaticity value, $\Delta u'v'$, within ± 0.006 of the mean chromaticity value for the module.

Q. Module to Module Variation:

1. 100% of the modules in a screen must have a luminance within $\pm 4\%$ of the mean luminance for the screen.
 2. 100% of the adjacent modules (i.e., modules sharing a border) in a screen must have a luminance within $\pm 3\%$ of each other.
 3. 100% of the modules in a screen must have a chromaticity value, $\Delta u'v'$, within ± 0.006 of the mean chromaticity value for the screen.
 4. 100% of the adjacent modules in a screen must have a chromaticity value, $\Delta u'v'$, within ± 0.003 of each other.
- R. All uniformity specifications above apply across all specified minimum horizontal and vertical viewing angles and are to be met for an all White, all Red, all Green, and all Blue screen display.
- S. All listed specifications must be maintained throughout the first 10,000 hours of use or 36 months from the time of acceptance, whichever is longer.
- T. Minimum of a $140^\circ (\pm 70^\circ)$ horizontal viewing angle. Defined at 50% of full intensity, with automatic color-correction "on", at stated angle maximum.
- U. Minimum of a $140^\circ (\pm 70^\circ)$ vertical viewing angle. Defined at 50% of full intensity, with automatic color-correction "on", at stated angle maximum.

5.16. [Products: "O ZONE" Display](#)

- A. LED Supplier: Only Nichia, Cree, Multi-Color, Sansi, Nation Star & Sinyopto LED's will be accepted. Gold wire bonds required. In accordance with the Joint Electron Engineering Council (JEDC) Numbering System, all SMD (Surface Mount Device) Codes shall be made available prior to fabrication of LED cabinets.
- B. Quantity: One (1) Indoor Video Displays HDR Capable.
- C. Size – 21' tall x 50' wide.
- D. Pixel Resolution: 4mm physical pixel resolution.
- E. Minimum Resolution: 1600 x 3808, based on maximum pixel pitch of 4mm.
- F. Minimum Brightness: 1200nits (100% white with automatic color-correction "on") at startup.

- G. System must maintain a minimum brightness level of 1000 nits throughout the first 10,000 hours of use or 36 months from the time of acceptance, whichever is longer.
- H. Display's intensity shall be adjustable to a minimum of 4,096 levels.
- I. Minimum 4,096 levels of intensity for each color (red, blue, pure green) 12-bit processing.
- J. 4,500°-9,000° Kelvin color temperature. Color temperature shall remain constant across specified horizontal and vertical viewing angles.
- K. Refresh rate shall be greater than 3,840 +Hz.
- L. Video frame rate at or greater than 60 frames per second.
- M. Contrast ratio shall be greater than 1200:1.
- N. IP rating shall be no less than 66 front and 54 rear.
- O. Service accessibility for all components of the displays shall be from the front.
- P. Pixel to Pixel Variation:
 - 1. 95% or more of pixels within each module must have a luminance within +/- 4% of the mean luminance for the module.
 - 2. The average luminance of a column or row of pixels at the edge of a module or panel must be within +/- 2% of the average luminance of the module or panel.
 - 3. 95% or more of the pixels within each module must have a chromaticity value, $\Delta u'v'$, within +/- 0.006 of the mean chromaticity value for the module.
- Q. Module to Module Variation:
 - 1. 100% of the modules in a screen must have a luminance within +/- 4% of the mean luminance for the screen.
 - 2. 100% of the adjacent modules (i.e., modules sharing a border) in a screen must have a luminance within +/- 3% of each other.
 - 3. 100% of the modules in a screen must have a chromaticity value, $\Delta u'v'$, within +/- 0.006 of the mean chromaticity value for the screen.
 - 4. 100% of the adjacent modules in a screen must have a chromaticity value, $\Delta u'v'$, within +/- 0.003 of each other.

- R. All uniformity specifications above apply across all specified minimum horizontal and vertical viewing angles and are to be met for an all White, all Red, all Green, and all Blue screen display.
- S. All listed specifications must be maintained throughout the first 10,000 hours of use or 36 months from the time of acceptance, whichever is longer.
- T. Minimum of a 140° ($\pm 70^\circ$) horizontal viewing angle. Defined at 50% of full intensity, with automatic color-correction “on”, at stated angle maximum.
- U. Minimum of a 140° ($\pm 70^\circ$) vertical viewing angle. Defined at 50% of full intensity, with automatic color-correction “on”, at stated angle maximum.

5.17. [Products: Alternate 3: Increased Resolution "O ZONE" Display](#)

- A. LED Supplier: Only Nichia, Cree, Multi-Color, Sansi, Nation Star & Sinyopto LED's will be accepted. Gold wire bonds required. In accordance with the Joint Electron Engineering Council (JEDC) Numbering System, all SMD (Surface Mount Device) Codes shall be made available prior to fabrication of LED cabinets.
- B. Quantity: One (1) Indoor Video Displays HDR Capable.
- C. Size – 21' tall x 50' wide.
- D. Pixel Resolution: 2.5mm physical pixel resolution.
- E. Minimum Resolution: 2464 x 6096, based on maximum pixel pitch of 2.5mm.

5.18. [Products: Alternate 4 Geico Garage Display](#)

- A. LED Supplier: Only Nichia, Cree, Multi-Color, Sansi, Nation Star & Sinyopto LED's will be accepted. Gold wire bonds required. In accordance with the Joint Electron Engineering Council (JEDC) Numbering System, all SMD (Surface Mount Device) Codes shall be made available prior to fabrication of LED cabinets.
- B. Quantity: One (1) Outdoor Video Displays HDR Capable.
- C. Size – 6' tall x 35' wide.
- D. Pixel Resolution: 10mm physical pixel resolution.
- E. Minimum Resolution: 192 x 1072, based on maximum pixel pitch of 10mm.
- F. Minimum Brightness: 7500nits (100% white with automatic color-correction “on”) at startup.

- G. System must maintain a minimum brightness level of 7000 nits throughout the first 10,000 hours of use or 36 months from the time of acceptance, whichever is longer.
- H. Display's intensity shall be adjustable to a minimum of 4,096 levels.
- I. Minimum 4,096 levels of intensity for each color (red, blue, pure green) 12-bit processing.
- J. 4,500°-9,000° Kelvin color temperature. Color temperature shall remain constant across specified horizontal and vertical viewing angles.
- K. Refresh rate shall be greater than 3,840 +Hz.
- L. Video frame rate at or greater than 60 frames per second.
- M. Contrast ratio shall be greater than 1200:1.
- N. IP rating shall be no less than 66 front and 54 rear.
- O. Service accessibility for all components of the displays shall be from the front.
- P. Pixel to Pixel Variation
 - 1. 95% or more of pixels within each module must have a luminance within +/- 4% of the mean luminance for the module.
 - 2. The average luminance of a column or row of pixels at the edge of a module or panel must be within +/- 2% of the average luminance of the module or panel.
 - 3. 95% or more of the pixels within each module must have a chromaticity value, $\Delta u'v'$, within +/- 0.006 of the mean chromaticity value for the module.
- Q. Module to Module Variation
 - 1. 100% of the modules in a screen must have a luminance within +/- 4% of the mean luminance for the screen.
 - 2. 100% of the adjacent modules (i.e., modules sharing a border) in a screen must have a luminance within +/- 3% of each other.
 - 3. 100% of the modules in a screen must have a chromaticity value, $\Delta u'v'$, within +/- 0.006 of the mean chromaticity value for the screen.
 - 4. 100% of the adjacent modules in a screen must have a chromaticity value, $\Delta u'v'$, within +/- 0.003 of each other.

- R. All uniformity specifications above apply across all specified minimum horizontal and vertical viewing angles and are to be met for an all White, all Red, all Green, and all Blue screen display.
- S. All listed specifications must be maintained throughout the first 10,000 hours of use or 36 months from the time of acceptance, whichever is longer.
- T. Minimum of a 140° (±70°) horizontal viewing angle. Defined at 50% of full intensity, with automatic color-correction “on”, at stated angle maximum.
- U. Minimum of a 140° (±70°) vertical viewing angle. Defined at 50% of full intensity, with automatic color-correction “on”, at stated angle maximum.

5.19. Products: Alternate 5 Box Office LED Display

- A. LED Supplier: Only Nichia, Cree, Multi-Color, Sansi, Nation Star & Sinyopto LED's will be accepted. Gold wire bonds required. In accordance with the Joint Electron Engineering Council (JEDC) Numbering System, all SMD (Surface Mount Device) Codes shall be made available prior to fabrication of LED cabinets.
- B. Quantity: One (1) Outdoor Video Displays HDR Capable.
- C. Size – 4' tall x 48' wide.
- D. Pixel Resolution: 6mm physical pixel resolution.
- E. Minimum Resolution: 208 x 2432, based on maximum pixel pitch of 6mm.
- F. Minimum Brightness: 7500nits (100% white with automatic color-correction “on”) at startup.
- G. System must maintain a minimum brightness level of 7000 nits throughout the first 10,000 hours of use or 36 months from the time of acceptance, whichever is longer.
- H. Display's intensity shall be adjustable to a minimum of 4,096 levels.
- I. Minimum 4,096 levels of intensity for each color (red, blue, pure green) 12-bit processing.
- J. 4,500°-9,000° Kelvin color temperature. Color temperature shall remain constant across specified horizontal and vertical viewing angles.
- K. Refresh rate shall be greater than 3,840 +Hz.
- L. Video frame rate at or greater than 60 frames per second.
- M. Contrast ratio shall be greater than 1200:1.

- N. IP rating shall be no less than 66 front and 54 rear.
- O. Service accessibility for all components of the displays shall be from the front.
- P. Pixel to Pixel Variation
 - 1. 95% or more of pixels within each module must have a luminance within +/- 4% of the mean luminance for the module.
 - 2. The average luminance of a column or row of pixels at the edge of a module or panel must be within +/- 2% of the average luminance of the module or panel.
 - 3. 95% or more of the pixels within each module must have a chromaticity value, $\Delta u'v'$, within +/- 0.006 of the mean chromaticity value for the module.
- Q. Module to Module Variation
 - 1. 100% of the modules in a screen must have a luminance within +/- 4% of the mean luminance for the screen.
 - 2. 100% of the adjacent modules (i.e., modules sharing a border) in a screen must have a luminance within +/- 3% of each other.
 - 3. 100% of the modules in a screen must have a chromaticity value, $\Delta u'v'$, within +/- 0.006 of the mean chromaticity value for the screen.
 - 4. 100% of the adjacent modules in a screen must have a chromaticity value, $\Delta u'v'$, within +/- 0.003 of each other.
- R. All uniformity specifications above apply across all specified minimum horizontal and vertical viewing angles and are to be met for an all White, all Red, all Green, and all Blue screen display.
- S. All listed specifications must be maintained throughout the first 10,000 hours of use or 36 months from the time of acceptance, whichever is longer.
- T. Minimum of a 140° ($\pm 70^\circ$) horizontal viewing angle. Defined at 50% of full intensity, with automatic color-correction “on”, at stated angle maximum.
- U. Minimum of a 140° ($\pm 70^\circ$) vertical viewing angle. Defined at 50% of full intensity, with automatic color-correction “on”, at stated angle maximum.

5.20. [Products: Alternate 6 Welcome Display - Event Level](#)

- A. LED Supplier: Only Nichia, Cree, Multi-Color, Sansi, Nation Star & Sinyopto LED's will be accepted. Gold wire bonds required. In accordance with the Joint Electron Engineering Council (JEDC) Numbering System, all SMD (Surface

Mount Device) Codes shall be made available prior to fabrication of LED cabinets.

- B. Quantity: One (1) Indoor Video Displays HDR Capable.
- C. Size – 7' tall x 13' wide.
- D. Pixel Resolution: 2.5mm physical pixel resolution.
- E. Minimum Resolution: 864 x 1600, based on maximum pixel pitch of 2.5mm.
- F. Minimum Brightness: 1200nits (100% white with automatic color-correction “on”) at startup.
- G. System must maintain a minimum brightness level of 1000 nits throughout the first 10,000 hours of use or 36 months from the time of acceptance, whichever is longer.
- H. Display’s intensity shall be adjustable to a minimum of 4,096 levels.
- I. Minimum 4,096 levels of intensity for each color (red, blue, pure green) 12-bit processing.
- J. 4,500°-9,000° Kelvin color temperature. Color temperature shall remain constant across specified horizontal and vertical viewing angles.
- K. Refresh rate shall be greater than 3,840 +Hz.
- L. Video frame rate at or greater than 60 frames per second.
- M. Contrast ratio shall be greater than 1200:1.
- N. IP rating shall be no less than 66 front and 54 rear.
- O. Service accessibility for all components of the displays shall be from the front.
- P. Pixel to Pixel Variation
 - 1. 95% or more of pixels within each module must have a luminance within +/- 4% of the mean luminance for the module.
 - 2. The average luminance of a column or row of pixels at the edge of a module or panel must be within +/- 2% of the average luminance of the module or panel.
 - 3. 95% or more of the pixels within each module must have a chromaticity value, $\Delta u'v'$, within +/- 0.006 of the mean chromaticity value for the module.
- Q. Module to Module Variation

1. 100% of the modules in a screen must have a luminance within +/- 4% of the mean luminance for the screen.
 2. 100% of the adjacent modules (i.e., modules sharing a border) in a screen must have a luminance within +/- 3% of each other.
 3. 100% of the modules in a screen must have a chromaticity value, $\Delta u'v'$, within +/- 0.006 of the mean chromaticity value for the screen.
 4. 100% of the adjacent modules in a screen must have a chromaticity value, $\Delta u'v'$, within +/- 0.003 of each other.
- R. All uniformity specifications above apply across all specified minimum horizontal and vertical viewing angles and are to be met for an all White, all Red, all Green, and all Blue screen display.
- S. All listed specifications must be maintained throughout the first 10,000 hours of use or 36 months from the time of acceptance, whichever is longer.
- T. Minimum of a 140° ($\pm 70^\circ$) horizontal viewing angle. Defined at 50% of full intensity, with automatic color-correction “on”, at stated angle maximum.
- U. Minimum of a 140° ($\pm 70^\circ$) vertical viewing angle. Defined at 50% of full intensity, with automatic color-correction “on”, at stated angle maximum.

5.21. Products: Alternate 7 Lobby Wayfinding Displays (E&W)

- A. LED Supplier: Only Nichia, Cree, Multi-Color, Sansi, Nation Star & Sinyopto LED's will be accepted. Gold wire bonds required. In accordance with the Joint Electron Engineering Council (JEDEC) Numbering System, all SMD (Surface Mount Device) Codes shall be made available prior to fabrication of LED cabinets.
- B. Quantity: Four (4) Indoor Video Displays HDR Capable. (Double-Sided Signs, 2 LED Displays per location)
- C. Size – 3.2' tall x 11.8' wide.
- D. Pixel Resolution: 2.5mm physical pixel resolution.
- E. Minimum Resolution: 384 x 1440, based on maximum pixel pitch of 2.5mm.
- F. Minimum Brightness: 1200nits (100% white with automatic color-correction “on”) at startup.
- G. System must maintain a minimum brightness level of 1000 nits throughout the first 10,000 hours of use or 36 months from the time of acceptance, whichever is longer.

- H. Display's intensity shall be adjustable to a minimum of 4,096 levels.
- I. Minimum 4,096 levels of intensity for each color (red, blue, pure green) 12-bit processing.
- J. 4,500°-9,000° Kelvin color temperature. Color temperature shall remain constant across specified horizontal and vertical viewing angles.
- K. Refresh rate shall be greater than 3,840 +Hz.
- L. Video frame rate at or greater than 60 frames per second.
- M. Contrast ratio shall be greater than 1200:1.
- N. IP rating shall be no less than 66 front and 54 rear.
- O. Service accessibility for all components of the displays shall be from the front.
- P. Pixel to Pixel Variation
 - 1. 95% or more of pixels within each module must have a luminance within +/- 4% of the mean luminance for the module.
 - 2. The average luminance of a column or row of pixels at the edge of a module or panel must be within +/- 2% of the average luminance of the module or panel.
 - 3. 95% or more of the pixels within each module must have a chromaticity value, $\Delta u'v'$, within +/- 0.006 of the mean chromaticity value for the module.
- Q. Module to Module Variation
 - 1. 100% of the modules in a screen must have a luminance within +/- 4% of the mean luminance for the screen.
 - 2. 100% of the adjacent modules (i.e., modules sharing a border) in a screen must have a luminance within +/- 3% of each other.
 - 3. 100% of the modules in a screen must have a chromaticity value, $\Delta u'v'$, within +/- 0.006 of the mean chromaticity value for the screen.
 - 4. 100% of the adjacent modules in a screen must have a chromaticity value, $\Delta u'v'$, within +/- 0.003 of each other.
- R. All uniformity specifications above apply across all specified minimum horizontal and vertical viewing angles and are to be met for an all White, all Red, all Green, and all Blue screen display.

- S. All listed specifications must be maintained throughout the first 10,000 hours of use or 36 months from the time of acceptance, whichever is longer.
- T. Minimum of a 140° ($\pm 70^\circ$) horizontal viewing angle. Defined at 50% of full intensity, with automatic color-correction “on”, at stated angle maximum.
- U. Minimum of a 140° ($\pm 70^\circ$) vertical viewing angle. Defined at 50% of full intensity, with automatic color-correction “on”, at stated angle maximum.

5.22. [Products: Alternate 8 Upper Entry \(Escalator\)](#)

- A. LED Supplier: Only Nichia, Cree, Multi-Color, Sansi, Nation Star & Sinyopto LED's will be accepted. Gold wire bonds required. In accordance with the Joint Electron Engineering Council (JEDEC) Numbering System, all SMD (Surface Mount Device) Codes shall be made available prior to fabrication of LED cabinets.
- B. Quantity: Two (2) Indoor Video Displays HDR Capable.
- C. Size – 3.2' tall x 19.8' wide.
- D. Pixel Resolution: 2.5mm physical pixel resolution.
- E. Minimum Resolution: 384 x 2416, based on maximum pixel pitch of 2.5mm.
- F. Minimum Brightness: 1200nits (100% white with automatic color-correction “on”) at startup.
- G. System must maintain a minimum brightness level of 1000 nits throughout the first 10,000 hours of use or 36 months from the time of acceptance, whichever is longer.
- H. Display's intensity shall be adjustable to a minimum of 4,096 levels.
- I. Minimum 4,096 levels of intensity for each color (red, blue, pure green) 12-bit processing.
- J. 4,500°-9,000° Kelvin color temperature. Color temperature shall remain constant across specified horizontal and vertical viewing angles.
- K. Refresh rate shall be greater than 3,840 +Hz.
- L. Video frame rate at or greater than 60 frames per second.
- M. Contrast ratio shall be greater than 1200:1.
- N. IP rating shall be no less than 66 front and 54 rear.
- O. Service accessibility for all components of the displays shall be from the front.

P. Pixel to Pixel Variation

1. 95% or more of pixels within each module must have a luminance within +/- 4% of the mean luminance for the module.
2. The average luminance of a column or row of pixels at the edge of a module or panel must be within +/- 2% of the average luminance of the module or panel.
3. 95% or more of the pixels within each module must have a chromaticity value, $\Delta u'v'$, within +/- 0.006 of the mean chromaticity value for the module.

Q. Module to Module Variation

1. 100% of the modules in a screen must have a luminance within +/- 4% of the mean luminance for the screen.
2. 100% of the adjacent modules (i.e., modules sharing a border) in a screen must have a luminance within +/- 3% of each other.
3. 100% of the modules in a screen must have a chromaticity value, $\Delta u'v'$, within +/- 0.006 of the mean chromaticity value for the screen.
4. 100% of the adjacent modules in a screen must have a chromaticity value, $\Delta u'v'$, within +/- 0.003 of each other.

R. All uniformity specifications above apply across all specified minimum horizontal and vertical viewing angles and are to be met for an all White, all Red, all Green, and all Blue screen display.

S. All listed specifications must be maintained throughout the first 10,000 hours of use or 36 months from the time of acceptance, whichever is longer.

T. Minimum of a 140° ($\pm 70^\circ$) horizontal viewing angle. Defined at 50% of full intensity, with automatic color-correction "on", at stated angle maximum.

U. Minimum of a 140° ($\pm 70^\circ$) vertical viewing angle. Defined at 50% of full intensity, with automatic color-correction "on", at stated angle maximum.

5.23. [Products: Alternate 9 Upper Entry \(Bridge\)](#)

A. LED Supplier: Only Nichia, Cree, Multi-Color, Sansi, Nation Star & Sinyopto LED's will be accepted. Gold wire bonds required. In accordance with the Joint Electron Engineering Council (JEDC) Numbering System, all SMD (Surface Mount Device) Codes shall be made available prior to fabrication of LED cabinets.

B. Quantity: One (1) Indoor Video Displays HDR Capable.

- C. Size – 6.6' tall x 11.8' wide.
- D. Pixel Resolution: 2.5mm physical pixel resolution.
- E. Minimum Resolution: 800 x 1440, based on maximum pixel pitch of 2.5mm.
- F. Minimum Brightness: 1200nits (100% white with automatic color-correction “on”) at startup.
- G. System must maintain a minimum brightness level of 1000 nits throughout the first 10,000 hours of use or 36 months from the time of acceptance, whichever is longer.
- H. Display’s intensity shall be adjustable to a minimum of 4,096 levels.
- I. Minimum 4,096 levels of intensity for each color (red, blue, pure green) 12-bit processing.
- J. 4,500°-9,000° Kelvin color temperature. Color temperature shall remain constant across specified horizontal and vertical viewing angles.
- K. Refresh rate shall be greater than 3,840 +Hz.
- L. Video frame rate at or greater than 60 frames per second.
- M. Contrast ratio shall be greater than 1200:1.
- N. IP rating shall be no less than 66 front and 54 rear.
- O. Service accessibility for all components of the displays shall be from the front.
- P. Pixel to Pixel Variation
 - 1. 95% or more of pixels within each module must have a luminance within +/- 4% of the mean luminance for the module.
 - 2. The average luminance of a column or row of pixels at the edge of a module or panel must be within +/- 2% of the average luminance of the module or panel.
 - 3. 95% or more of the pixels within each module must have a chromaticity value, $\Delta u'v'$, within +/- 0.006 of the mean chromaticity value for the module.
- Q. Module to Module Variation
 - 1. 100% of the modules in a screen must have a luminance within +/- 4% of the mean luminance for the screen.
 - 2. 100% of the adjacent modules (i.e., modules sharing a border) in a screen must have a luminance within +/- 3% of each other.

3. 100% of the modules in a screen must have a chromaticity value, $\Delta u'v'$, within ± 0.006 of the mean chromaticity value for the screen.
 4. 100% of the adjacent modules in a screen must have a chromaticity value, $\Delta u'v'$, within ± 0.003 of each other.
- R. All uniformity specifications above apply across all specified minimum horizontal and vertical viewing angles and are to be met for an all White, all Red, all Green, and all Blue screen display.
- S. All listed specifications must be maintained throughout the first 10,000 hours of use or 36 months from the time of acceptance, whichever is longer.
- T. Minimum of a $140^\circ (\pm 70^\circ)$ horizontal viewing angle. Defined at 50% of full intensity, with automatic color-correction “on”, at stated angle maximum.
- U. Minimum of a $140^\circ (\pm 70^\circ)$ vertical viewing angle. Defined at 50% of full intensity, with automatic color-correction “on”, at stated angle maximum.

5.24. [Products: Alternate 10 Top Escalator \(MU\)](#)

- A. LED Supplier: Only Nichia, Cree, Multi-Color, Sansi, Nation Star & Sinyopto LED's will be accepted. Gold wire bonds required. In accordance with the Joint Electron Engineering Council (JEDC) Numbering System, all SMD (Surface Mount Device) Codes shall be made available prior to fabrication of LED cabinets.
- B. Quantity: One (1) Indoor Video Displays HDR Capable.
- C. Size – 5.5' tall x 9.8' wide.
- D. Pixel Resolution: 2.5mm physical pixel resolution.
- E. Minimum Resolution: 672 x 1200, based on maximum pixel pitch of 2.5mm.
- F. Minimum Brightness: 1200nits (100% white with automatic color-correction “on”) at startup.
- G. System must maintain a minimum brightness level of 1000 nits throughout the first 10,000 hours of use or 36 months from the time of acceptance, whichever is longer.
- H. Display's intensity shall be adjustable to a minimum of 4,096 levels.
- I. Minimum 4,096 levels of intensity for each color (red, blue, pure green) 12-bit processing.

- J. 4,500°-9,000° Kelvin color temperature. Color temperature shall remain constant across specified horizontal and vertical viewing angles.
- K. Refresh rate shall be greater than 3,840 +Hz.
- L. Video frame rate at or greater than 60 frames per second.
- M. Contrast ratio shall be greater than 1200:1.
- N. IP rating shall be no less than 66 front and 54 rear.
- O. Service accessibility for all components of the displays shall be from the front.
- P. Pixel to Pixel Variation
 - 1. 95% or more of pixels within each module must have a luminance within +/- 4% of the mean luminance for the module.
 - 2. The average luminance of a column or row of pixels at the edge of a module or panel must be within +/- 2% of the average luminance of the module or panel.
 - 3. 95% or more of the pixels within each module must have a chromaticity value, $\Delta u'v'$, within +/- 0.006 of the mean chromaticity value for the module.
- Q. Module to Module Variation
 - 1. 100% of the modules in a screen must have a luminance within +/- 4% of the mean luminance for the screen.
 - 2. 100% of the adjacent modules (i.e., modules sharing a border) in a screen must have a luminance within +/- 3% of each other.
 - 3. 100% of the modules in a screen must have a chromaticity value, $\Delta u'v'$, within +/- 0.006 of the mean chromaticity value for the screen.
 - 4. 100% of the adjacent modules in a screen must have a chromaticity value, $\Delta u'v'$, within +/- 0.003 of each other.
- R. All uniformity specifications above apply across all specified minimum horizontal and vertical viewing angles and are to be met for an all White, all Red, all Green, and all Blue screen display.
- S. All listed specifications must be maintained throughout the first 10,000 hours of use or 36 months from the time of acceptance, whichever is longer.
- T. Minimum of a 140° ($\pm 70^\circ$) horizontal viewing angle. Defined at 50% of full intensity, with automatic color-correction “on”, at stated angle maximum.

- U. Minimum of a 140° ($\pm 70^\circ$) vertical viewing angle. Defined at 50% of full intensity, with automatic color-correction “on”, at stated angle maximum.

5.25. [Products: Alternate 11 Slanted Wall Display](#)

- A. LED Supplier: Only Nichia, Cree, Multi-Color, Sansi, Nation Star & Sinyopto LED's will be accepted. Gold wire bonds required. In accordance with the Joint Electron Engineering Council (JEDC) Numbering System, all SMD (Surface Mount Device) Codes shall be made available prior to fabrication of LED cabinets.
- B. Quantity: One (1) Indoor Video Displays HDR Capable.
- C. Size – 7.1' tall x 4' wide.
- D. Pixel Resolution: 2.5mm physical pixel resolution.
- E. Minimum Resolution: 864 x 480, based on maximum pixel pitch of 2.5mm.
- F. Minimum Brightness: 1200nits (100% white with automatic color-correction “on”) at startup.
- G. System must maintain a minimum brightness level of 1000 nits throughout the first 10,000 hours of use or 36 months from the time of acceptance, whichever is longer.
- H. Display's intensity shall be adjustable to a minimum of 4,096 levels.
- I. Minimum 4,096 levels of intensity for each color (red, blue, pure green) 12-bit processing.
- J. 4,500°-9,000° Kelvin color temperature. Color temperature shall remain constant across specified horizontal and vertical viewing angles.
- K. Refresh rate shall be greater than 3,840 +Hz.
- L. Video frame rate at or greater than 60 frames per second.
- M. Contrast ratio shall be greater than 1200:1.
- N. IP rating shall be no less than 66 front and 54 rear.
- O. Service accessibility for all components of the displays shall be from the front.
- P. Pixel to Pixel Variation
 - 1. 95% or more of pixels within each module must have a luminance within +/- 4% of the mean luminance for the module.

2. The average luminance of a column or row of pixels at the edge of a module or panel must be within +/- 2% of the average luminance of the module or panel.
3. 95% or more of the pixels within each module must have a chromaticity value, $\Delta u'v'$, within +/- 0.006 of the mean chromaticity value for the module.

Q. Module to Module Variation

1. 100% of the modules in a screen must have a luminance within +/- 4% of the mean luminance for the screen.
2. 100% of the adjacent modules (i.e., modules sharing a border) in a screen must have a luminance within +/- 3% of each other.
3. 100% of the modules in a screen must have a chromaticity value, $\Delta u'v'$, within +/- 0.006 of the mean chromaticity value for the screen.
4. 100% of the adjacent modules in a screen must have a chromaticity value, $\Delta u'v'$, within +/- 0.003 of each other.

R. All uniformity specifications above apply across all specified minimum horizontal and vertical viewing angles and are to be met for an all White, all Red, all Green, and all Blue screen display.

S. All listed specifications must be maintained throughout the first 10,000 hours of use or 36 months from the time of acceptance, whichever is longer.

T. Minimum of a 140° ($\pm 70^\circ$) horizontal viewing angle. Defined at 50% of full intensity, with automatic color-correction "on", at stated angle maximum.

U. Minimum of a 140° ($\pm 70^\circ$) vertical viewing angle. Defined at 50% of full intensity, with automatic color-correction "on", at stated angle maximum.

5.26. [Products: Center Hung Displays - Processing and Controls](#)

- A. Video screen control system must provide the ability to manage brightness (multi-level), video input, image position: size and scale, adjustable gamma correction, remote power function (power on/off), color, color temperature, contrast, and sharpness.
- B. Processing to allow for electronic color and brightness calibration - block to block and pixel to pixel.
- C. The processor shall support the following inputs: 4k/2110, 1080P-HDR, HD-SDI video in either 720p or 1080i, SD-SDI (480p) and SDI 16x9 anamorphic signal, HDMI 2.0 and DVI video.

- D. Contractor is responsible for providing all required components, racks and wiring necessary to manage and control the video display from a location outside of the display housing.
- E. System architecture must allow for 100% processing and control redundancy. Back up units shall be installed in the equipment racks and shall be hot swappable.
- F. Acceptable Manufactures:
 - 1. Daktronics
 - 2. SANSI
 - 3. Color Light
 - 4. Novastar H Series
 - 5. Samsung

5.27. Products: Center Hung and Displays Signage and Aesthetics

- A. Provide and install all signage, cladding and aesthetic elements on the center hung display as depicted and specified in the rendering package.
- B. Provide and install blackout material on the underside of the Center Hung and on the backside of the LED Halo Ring.

5.28. Products: Corner and "O ZONE" Display Hoist System - LED Vendor Provided

- A. Chain Hoist – CM Model LNH0208ENTT: 2000kg, 2:1 Reeving - 08 FPM at Suspension Hook
- B. 208VAC 3Ø 60 Hz.,
- C. Dual DC Brake, D8+ Rated for Permanent Installations Overhead. Integrated Motor Encoder.
- D. HSS Power and Control Hoist Plug-in Enclosure
- E. Double Hook Chain Bag with Bracket
- F. BC-3 Beam Clamp, 3T
- G. Control System: Hoist Sales & Service TALON Multi-Axis Chain Hoist Controller
- H. (2) 4 Channel Hoist Controller, 4 x 1hp, 3 Phase 208vac, E-Stop, H1-4 Enable, Directional Push Buttons,
- I. Hoist Diagnostic HMI Interface, Wireless Controller.

- J. (1 Per End Zone System)
- K. (4) 3 Channel Hoist Controller, 3 x 1hp, 3 Phase 208vac, E-Stop, H1-3 Enable, Directional Push Buttons,
- L. Hoist Diagnostic HMI Interface, Wireless Controller.
- M. (1 Per End Zone System)
- N. (4) 3 Channel Hoist Controller, 3 x 1hp, 3 Phase 208vac, E-Stop, H1-3 Enable, Directional Push Buttons,
- O. Hoist Diagnostic HMI Interface, Wireless Controller.

5.29. [Products: Content Creation](#)

Provide three hundred (300) hours of content creation.

5.30. [Execution: Scope of Work](#)

The following outlines the turnkey delivery and installation responsibilities that define the project scope of work. Any and all work outlined in this section is the responsibility of the Contractor unless otherwise noted. Contractor is required to provide all labor, materials, tools, supervision, and equipment to perform the following:

- A. The Contractor shall be responsible for providing a complete turn-key installation including all displays and control equipment as described.
- B. Remove and dispose of all existing equipment that is being replaced in this package. Coordinate with the City for any equipment that shall be retained.
- C. The Contractor is to provide all necessary protection for all facility components. Contractor is responsible for repair and replacement of any damaged facility components caused by the Contractor and/or any subcontractors hired by Contractor to perform work on site.
- D. The Contractor is required to provide all labor, materials, tools, supervision, and equipment to perform the work outlined in this scope of work.
- E. Provide and install all equipment, displays and aesthetics listed in Section 5.34 – Products, including any and all equipment not specifically listed that is required to provide a completely functional system. All primary and secondary structure required to install the displays shall be engineered, supplied, and installed by the Contractor. Contractor shall provide final stamped structural drawings per Section 5.31.
- F. There is adequate power located in the catwalk above the center hung location. Contractor shall be responsible for all power and electrical distribution from

demarcation point to the new system(s). Contractor shall provide all secondary power connections/terminations required to power new system(s). Contractor is responsible for providing stamped electrical drawings by a licensed electrical engineer in the state of Florida.

- G. The ribbon and vomitory displays exist and have adequate power to accommodate the new LED displays. Contractor shall be responsible for all power and electrical distribution from demarcation point to the new system(s). Contractor shall provide all secondary power connections/terminations required to power new system(s). Contractor is responsible for providing stamped electrical drawings by a licensed electrical engineer in the state of Florida.
- H. Pathways from the control location to the catwalk above the center hung currently exist. All additional conduit and raceways required to complete a path to the display locations shall be furnished and installed by Contractor. Contractor shall be responsible to furnish, install, and terminate all required cabling needed to make new system(s) complete and fully operational.
- I. Per Section 5.28, Contractor is responsible for determining the number of chain hoists required to adequately support their designed corner and "O Zone" display systems. This includes determining the length of chain required to provide service to the displays.
- J. Coordinate placement of new equipment rack(s) and electrical components.
- K. Provide all required permits and licenses.
- L. Provide on-site installation supervisor.
- M. Deliver all Equipment to site and convey to appropriate locations within site as directed by the project.
- N. Store all Equipment in a safe and secure manner until installed, or otherwise directed by the project.

5.31. Execution: Engineering

- A. The Contractor must submit drawings and calculations stamped by a licensed engineer in the State of Florida for the attachment points for any secondary steel and displays not shown on the Project Drawings.
- B. As part of the permit submittal set, the Contractor shall include the stamped hoist submittal, provided by the City, as part of their permit set.

- C. Contractor is responsible for taking all seismic, wind and environmental considerations into account and making structural provisions for any such requirements.
- D. The City must approve all drawings in writing prior to the fabrication and installation of any equipment.
- E. Engineered drawings are to include electrical.

5.32. Execution: Structural Considerations

- A. Contractor is responsible to design, engineer, build, deliver, install, integrate, and commission complete turnkey displays as specified with all required structure needed to support all display components.
- B. Contractor is responsible for the provision and installation of all primary and secondary steel including but not limited to catwalks, ships ladders, railings, mounting brackets/hardware, roof, and cladding backup.
- C. Flashing and any other related equipment shall be the responsibility of the Contractor to furnish and install.
- D. Contractor is responsible for erection of all materials related to the new equipment.
- E. Sub-structure is to be fabricated using structural steel and/or aluminum (optional). Contractor shall provide necessary protective separation when connecting dissimilar metals to prevent galvanic corrosion.
- F. Bolted and/or field welded connections shall be subject to special inspection by an independent testing & inspection agency certifying that bolted and/or welded connections meet the minimum requirements of the engineered structural drawings, the governing building code, or as required by the building official; whichever is more restrictive. Inspections shall take place prior to painting any connection.
- G. Documentation shall be provided to the City verifying acceptable results from all special inspections. All items failing inspection shall be repaired or replaced and re-inspected at no additional cost to the City.
- H. All components to be painted and otherwise finished for exterior service conditions shall be warranted to be free of rust or other defects for a period of ten years.
- I. All welders must be certified, and certificates must be on-site and available for inspection as requested.

- J. To minimize fading or oxidation, all primary structural elements must be primed and coated or galvanized.
- K. Damage to paint to the structure during the installation of secondary structure, video board and signage install shall be touched up by Contractor.

5.33. Execution: Electrical and Data

- A. The electrical design and installation of all branch circuits by the Contractor shall comply with NEC, provincial and local codes, as well as the City regulations and guidelines.
- B. The Contractor shall provide electrical and data one-line diagrams.
- C. Electrical design and engineering must be reviewed and approved by the City prior to any electrical work by the Contractor.
- D. The Contractor will be responsible for power distribution from the demarcation points noted on the included electrical drawing. Any additional electrical components required for a complete and fully operational system but not shown on the electrical drawings shall be the responsibility of the Contractor.
- E. Contractor to provide a 4" x 4" J-Box at top/bottom of each rack with power circuit cabling terminating in 24" pig tails. Label each outlet as to which AC circuit is feeding it and provide the same information in the circuit breaker panel. the City will provide all AC power and conduit to the equipment racks and will terminate AC power circuits within the J-Boxes.
- F. Contractor is responsible for all conduit and raceways as required for signal/control cable distribution. Contractor may utilize existing conduit subject to the City approval.
- G. The Contractor shall be responsible for termination and final connection of power to all displays. All secondary electrical panels must be clearly marked with names of the branch circuits controlled by each breaker to aid in troubleshooting or isolating problems. All electrical services, disconnects, and breaker panels are to be labeled with what they control and where they are fed from.
- H. Contractor shall not use wire nuts or electrical tape for any power or signal connection or any part of the work including internal LED display power jumpers or power connections to signage elements. All connections shall use a proper terminal block and spade terminal, or terminal block and direct connection as required. Covers shall be provided over-all high-power terminal blocks to prevent electrical shock.

- I. The City's provided power to the disconnect switch shall use rigid metal conduit and wire. The use of SO cord or rubber jacket type power cables typically used on transportable installations or used on the installation of pitch side displays shall not be permit for permanent installations. Strain relief on all connectors shall be per manufactures recommendations. Contractor shall submit manufacturers strain relief recommendations for all connectors during the submittal process.
- J. The Contractor will be responsible for providing stamped electrical drawings. A licensed/registered engineer in the state of Florida where this project is located shall stamp all electrical drawings.
- K. Any equipment not certified as required in Section 5.3, shall require on-site certification by a listed testing agency. All cost associated with obtaining on-site certification shall be the responsibility of the Contractor. Written proof of certification or equivalent will be required prior to any work being performed on-site.
- L. Multi-mode fiber tested shall not have a signal dB loss greater than 0.1dB per 100 feet (30m) for 850nm fiber or a loss greater than 0.1 dB per 300 feet (100m) for 1300nm fiber.
- M. Single-mode fiber tested shall not have a signal dB loss greater than 0.1dB per 600 feet (200m) for 1310nm fiber or a loss greater than 0.1 dB per 750 feet (250m) for 1550nm fiber.
- N. Contractor to provide all required fiber transmitters and receivers (including amplifiers where required). Contractor will be responsible to terminate and perform final connection of all cables. Cables will be routed from the specified control locations to the display components per Contractor's diagram once the City has approved diagram.

5.34. [Execution: Aesthetic Considerations](#)

- A. At the time of the release of this RFP, the the City is still developing certain finishes and aesthetic design elements for consideration. Contractor shall assume premium finishes on all elements not yet defined.
- B. Prior to contract award, the Contractor must provide a comprehensive outline of all intended flashing and finish details for the City's approval. Failure to submit these details prior to contract award shall make Contractor responsible for all flashing and finishes as required by the City at no additional cost to the City.

- C. No exposed bolts, inverted U channels, or unfinished edges on LED displays or signage elements shall be permitted on any surface with public view. Any part of the secondary steel frame exposed to public view shall be covered with flashing to match the edge of the LED display.
- D. Unless specified differently on the AJP Drawings, the following shall serve as a minimum standard for products and finishes. Contractor shall be responsible to ensure that the material thickness provided is sufficient to prevent warping or “oil canning” on the span or sections of material installed.
 - 1. Metals
 - a. + .040” aluminum on internal baffling
 - b. + .090” aluminum on flashing
 - c. + .125” aluminum on any routed or primary surface
 - d. + 12ga/2.6mm stainless steel (visible)
 - 2. Plastics
 - a. + .117” thickness on thermoformed polycarbonates
 - b. + .177” thickness on flat polycarbonates
 - c. + .125” thickness on flat acrylics
 - 3. Finishes
 - a. + Approved Automotive Grade Enamels
 - b. + ASTM D3451-06 compliant Powder Coating
 - 4. Vinyl Films
 - a. + 3M, Avery, Oracal or other as approved.
 - b. + 9oz weight for any outdoor banner (UV coated)
- E. The Contractor shall not visibly display its trademarks or insignia on any of the Equipment or structural elements.

5.35. [Execution: Training](#)

- A. The Contractor at its own expense will provide designated the City employees’ operator and maintenance training.

- B. Training will be performed at the site by a qualified technician and shall occur either during installation of the equipment or immediately thereafter. O&M Manuals per Section 15.2.B, shall be provided to the City prior to training.
- C. The training shall cover the operation, routine maintenance and troubleshooting of the displays and control equipment.
- D. Training shall consist of at least 24 hours (over the course of 3-5 days) of instruction.
- E. Contractor will be required to have an LED technician on-site for the first day of operation (8 hours) and continue to be on-site for three (3) consecutive problem free days (8 hours per day). "Problem-free" constitutes a day where the video and LED control system, and any other components installed by the Contractor are without failure during the day. Each successful event will need to be signed off by the City until three (3) consecutive days are achieved.
- F. Warranty period will commence at conclusion of the third consecutive successful day.

5.36. Execution: Testing and Acceptance

- A. Contractor must demonstrate the full capabilities of the provided systems and prove performance meets contractual specifications.
- B. Confirmation will be required of, but not limited to the following functions: operation of each system component, including back-up systems, control functionality, integration with existing systems, diagnostic capabilities, screen brightness, color temperature and viewing angles.
- C. Contractor must provide all necessary testing equipment for acceptance.
- D. Upon notice from the Contractor of substantial completion and at a time to be mutually agreed upon, the Contractor will arrange for the testing of all operations of the systems comprised in scope of work at the time of substantial completion.
- E. The following items must be completed and signed off by an appropriate City official before the City will deem the system "Accepted."
 - 1. LED Screens - Brightness and color uniformity shall be demonstrated and must meet the specification described. If the demonstration exhibits the display in noncompliance with the specifications, it will be the responsibility of the Contractor to make the necessary adjustments or to adjust, repair or replace the components necessary to meet the specifications. The City will

- not be responsible for any added costs as a result of an unsuccessful acceptance test.
2. Certain LED video displays included in this RFP are required to maintain minimum parameters over a specified period of time. The City at its sole discretion may engage an independent testing agency to verify the display's specifications, at any time during the specified period of time. Cost for this testing will be borne by the City if display is complying at the time of the first test. If the independent testing agency determines that the display is not in compliance with the specifications, the cost of the initial and any necessary re-testing will be the responsibility of the Contractor. Contractor will also be responsible to make the necessary adjustments or repair or replace the components necessary to meet the specifications. The City will not be responsible for any added costs as a result of an unsuccessful test.
 3. Functionality of each of the displays and their control systems, as specified, shall be demonstrated in its entirety.
 4. Acceptance of the system includes, but not limited to, the completed installation of all physical components and the issuance of the Certificate of Approval for code compliance by the Code Authority having Jurisdiction. Tests of the system shall not occur until after the system has been installed, and all work completed on the display systems.
- F. Document all acceptance testing, calibration and correction procedures described herein. Include the following information:
1. Performance date of the given procedure.
 2. Condition of performance of procedure.
 3. Type of procedure, and description.
 4. Parameters measured and their values, including values measured prior to calibration or correction, as applicable.
 5. The names of personnel conducting the procedure.
 6. The equipment used to conduct the procedure.
- G. Upon completion of initial tests and adjustments, submit written report of tests to The City, along with all documents, diagrams, and recorded drawings required herein.
- H. Final Procedures

1. Perform any and all “punch-list” work to correct inadequate performance or unacceptable conditions, as determined by the City, at no additional expense to the City.
2. Furnish all portable (includes spare parts) equipment to the City along with complete inventory documentation. All portable equipment shall be presented in the original manufacturers packing, complete with all included instructions, miscellaneous manuals, and additional documents.
3. Provide new acceptance testing in the same format as initial test reports.
4. Check, inspect, and if necessary, adjust all systems, equipment, devices, and components specified, at the City’s convenience, approximately thirty (30) days after the City’s acceptance.
5. Upon completion of the Work, the City may elect to verify test data as part of acceptance procedure. Provide personnel and equipment, at the convenience of the City, to reasonably demonstrate system performance and to assist with such tests without additional cost to the City.

5.37. Delivery, Storage and Security

- A. The Contractor shall deliver to the site all system components and related materials at its own expense.
- B. The Contractor shall unload, uncrate, assemble, and transport each component to its desired location for installation and install the system on-site in accordance with on-site regulations.
- C. The Contractor will be responsible for the cleanup, recycle (where applicable), and disposal of all packaging materials and debris.
- D. The contractor is responsible for removal and recycling of all removed components and disposal of any non-recyclable materials.
- E. The Contractor is responsible for providing any temporary on-site storage for equipment and materials unless adequate on-site storage is available from Owner.
- F. Owner shall not be responsible for security or insurance related to said equipment or materials, even if stored on-site at locations designated or approved by Owner.
- G. Any temporary storage requirements must be coordinated with the Owner.

5.38. Miscellaneous Regulations and Rules

- A. Contractor shall be responsible for day-to-day premises and facilities cleanup, including temporary storage, removal and disposal of debris, trash and rubbish caused by its employees, or installation material-men or workmen. All tools, equipment and materials shall be secured upon completion of the day's work. Surplus materials shall be removed from the work site and stored in their appropriate location.
- B. Contractor shall not drive nor operate a vehicle, equipment, or machinery upon any of Owner's campus lawns, grounds, pathways or interbuilding walkways without having first obtained concurrence of the activity and approval for operating the vehicle, equipment, or machinery from Owner. Requests for approval will be submitted through the Owner's assigned Project Contact.
- C. Contractor's personnel will follow Owner's standards and personal conduct codes while on Owner's premises. A copy of those standards and codes will be provided to Contractor on request. Personnel found violating these standards or regulations shall be asked to leave the work site and shall not be allowed to return.
- D. OSHA REGULATIONS: It is the Contractor's responsibility to guarantee that all items of hardware, services rendered or working environments meet or exceed those requirements and guidelines established by the Occupational Safety and Health Act (OSHA). Questions regarding such requirements as pertaining to Owner may be referred to the Kia Center Safety Officer.
- E. SAFETY: Contractor shall give all required notices and comply with all applicable laws, ordinances, rules, regulations, and lawful orders of any public authority bearing on the safety of persons or property and their protection from damage, injury, or loss.
- F. EMERGENCIES: In any project related emergency affecting the safety of persons or property, Contractor shall act with all due haste to prevent further threatened damage, injury, or loss, and will immediately notify Kia Center Security Office.
- G. PROTECTION OF OWNER'S FACILITIES: Contractor shall be responsible for replacing, restoring, or bringing to original condition any campus property or facilities damaged by Contractor's personnel or operations. Any damage or disfigurement must be reported promptly to the Owner and restored by the Contractor at its own expense.

- H. **NONDISCRIMINATION:** Contractor shall represent in its proposal that it and all its subcontractors are following nondiscrimination legislation and fair employment practices.

6. PRE-PROPOSAL CONFERENCE

6.1. Date

A Mandatory Pre-Proposal Conference will be held at:

Kia Center 400 West Church Street, Suite 200 Conference Room Orlando, FL 32801 on Wednesday, January 29, 2025 at 11:00 am.

In order to be considered present for a Mandatory Pre-Proposal Conference, a Proposer must have at least one (1) representative present and signed in on the Pre-Solicitation Sign-In Sheet. See the Introduction Section of this solicitation for the location, date, and time.

6.2. Purpose

The Pre-Proposal conference is intended to provide prospective Proposer(s) the opportunity to ask questions or receive clarification from City representatives of any requirements of this Request for Proposals. Representatives from the Procurement and Contracts Division and a technical representative from the using department will be present to discuss the project and answer questions.

6.3. Site Visit

Immediately following the Mandatory Pre-Proposal Conference, a mandatory site visit and tour of the Kia Center will be conducted by City representatives. The tour is considered part of the Pre-Proposal Conference and is **mandatory**.

No Proposer will be granted a different tour date or be permitted to inspect the facilities except on the date and time specified.

Proposers are clearly advised that any drawings, plans, charts, or other materials, whether supplied by or on behalf of the City, AJP, or third parties, describing aspects of the site provided as part of this document or otherwise are not to be considered as definitive or as a substitute for any information which would otherwise be obtained by the Proposer during a formal Site inspection.

6.4. Oral Interpretations and Addenda

All interpretations and clarifications related to the Request for Proposals, or supplemental instructions will be in the form of a written addendum from the Procurement and Contracts Division. No oral interpretations or clarifications from City staff or by other means will be considered binding unless issued in writing.

6.5. Clarification of Requirements

To facilitate the clarification of requirements, it is strongly recommended that Proposer(s) submit all questions in writing, at least three (3) days prior to the pre-proposal conference. Please complete the attached "Pre-Proposal Conference Attendance Notification Form," Attachment "I," if applicable, and return via fax or email to:

Tara Urdininea, CPP, Purchasing Agent II

City of Orlando

Procurement and Contracts Division

400 South Orange Avenue, Fourth Floor

Orlando, Florida 32801

Telephone: (407) 246-2368

Fax: (407) 246-2869

Email: tara.urdininea@orlando.gov

Website: <http://www.orlando.gov/procurement/>

7. **PROPOSAL DUE DATE AND TIME**

7.1. Proposal Due Date

Sealed Proposals must be submitted electronically and received by Procurement and Contracts Division, no later than 2:00 pm, Local Time, Orlando, FL, on Monday, February 24, 2025. Proposals received after this date and time, will not be considered.

7.2. Public Opening

Proposals will be publicly opened and announced by the Procurement and Contracts Division on the due date and time as specified herein. The Proposer's name and verification of bond submittal, if applicable, will be publicly announced aloud at the Proposal opening.

Instructions to join the solicitation opening virtual meeting:

A. Select a method to join

1. Join a Microsoft Teams Meeting from your calendar, via dial-in number and conference ID, or sign in as a guest on the web. For information on joining a Microsoft Teams Meeting from the app or on the web, visit:
<https://support.office.com/en-us/article/join-a-teams-meeting-078e9868-f1aa-4414-8bb9-ee88e9236ee4>

B. Choose your device and download Teams

1. Go to <https://www.microsoft.com/en-us/microsoft-365/microsoft-teams/download-app> and download Microsoft Teams. You can use a smart phone, tablet, laptop, or desktop computer to download at no cost. Make sure to allow some extra time for the install before joining your first meeting. If you do not have one of the devices just mentioned, you can also call in to the meeting. If you cannot download the desktop or mobile application, follow the instructions to join a Microsoft Teams Meeting on the web.

C. Join the virtual meeting

1. See Introduction Section for the Location and/or link to the virtual Proposal Opening.
 - a. **Note:** Sessions may be recorded. Please turn your camera off and mute your microphone before joining the meeting.

D. Provide live public comment

1. An opportunity to speak will be provided to all in attendance during the meeting. You will be called by the name, email or phone number listed. When called, unmute your device and state your name and address for the record.

7.3. [Public Record](#)

Proposals received in response to this Request for Proposals are exempt from disclosure under the provisions of the Public Records Law until such time as an award decision has been made known or until thirty (30) days after the Proposal opening, whichever is earlier.

8. **PROPOSAL PREPARATION AND FORMAT**

8.1. [Preparation](#)

Prepare your Proposal in a clear and concise manner. Ensure that the content of your Proposal submittal is complete. Special attention should be given to the specific information, instructions and requirements of the Request for Proposals document to ensure responsiveness. Proposals that are incomplete or lack key information may be rejected. To help facilitate the review process, properly label each section or tab to correspond with your submittal information.

8.2. [Incurred Expenses](#)

The City is not responsible for any expenses which Proposers may incur in preparing and submitting Proposals including presentations and any other expenses called for in this Request for Proposals.

8.3. [Proprietary Information](#)

- A. In accordance with Chapter 119 of the Florida Statutes (Public Records Law), and except as may be provided by other applicable State and Federal Law, all

Proposers should be aware the Request for Proposals and the responses thereto are in the public domain. Proposers are requested to identify specifically any information contained in their Proposals which they consider confidential and/or proprietary and which they believe to be exempt from disclosure to the public under applicable law, citing specifically the applicable exempting law; provided, however, that nothing herein shall be deemed to preclude the full disclosure without redaction of any and all information submitted by Proposers to Committee members, advisors to the Committee, and City staff and officials administering this solicitation and evaluating the proposals. A generic notation that information is “confidential” is not sufficient. Failure to provide the Procurement and Contracts Division Office with a detailed explanation and justification including statutory cites and specific reference to your Proposal detailing what provisions, if any, you believe are exempt from disclosure, may result in your entire Proposal being subject to disclosure in accordance with Chapter 119 of the Florida Statutes.

- B. Each Proposer shall complete the “Confidential and/or Proprietary Information Exemption Form”, included with this Request for Proposals as Attachment “C”, and submit the form with their Proposal.
- C. In addition to the Proposal submitted pursuant to **Section 9.13**, a Proposer asserting any exemptions from public disclosure regarding any portions of its Proposal shall also provide a redacted copy of its Proposal in electronic format suitable for public disclosure, redacting only such portions of its proposal identified on Attachment “C” as exempt from disclosure under an applicable law.
- D. By submitting a proposal, a Proposer acknowledges and agrees that should it designate any materials submitted to the City as confidential or exempt from public disclosure, the Proposer will upon the request of City (at the City’s discretion) defend the City (and its employees, Committee members and advisors, agents, and elected and appointed officials) against all claims and actions (whether or not a lawsuit is commenced) related to the Proposer’s designation of material as confidential or exempt from public disclosure. A Proposer shall indemnify and hold harmless the City (and its employees, Committee members and advisors, agents and elected and appointed officials) from any and all claims, actions, suits, judgements, fines, costs, fees (including attorneys’ fees), related to the Proposer’s designation of material as confidential or exempt from public disclosure.
- E. Nothing herein shall be deemed to preclude the City from exercising its own judgment regarding the disclosure of records and the City may take any action

that the City in good faith believes is necessary for City to comply with federal and/or Florida public records laws, including but not limited to filing a declaratory action.

- F. All Proposals received from Proposers in response to this Request for Proposals will become the property of the City of Orlando and will not be returned to the Proposers.

9. REQUIRED PROPOSAL SUBMITTALS

Responses to this request shall include the following information and be presented in the order shown, separated into sections as noted, including a Table of Contents that identifies each section and its page number:

9.1. [Title Page](#)

Provide the name of Proposer's firm, address, e-mail address, telephone number, name of contact person, date, and the subject: RFP25-0173, Kia Center LED Display Upgrade

9.2. [Table of Contents](#)

Tab each item in paragraphs below (including sub-paragraphs) and record tab number/letter in the Table of Contents along with corresponding page number.

9.3. [Letter of Transmittal](#)

- A. Limit to two (2) pages.
- B. Briefly state the Proposer's understanding of the services to be provided and make a positive commitment to perform the work.
- C. Give the names of the persons who will be authorized to make representations for the Proposer, their titles, addresses and telephone numbers.

9.4. [Mandatory Minimum Qualification Documentation](#)

Provide documentation as necessary for the City to verify that the mandatory minimum qualifications in **section titled "Mandatory Minimum Qualifications,"** have been met. Documentation must be clear and specific.

9.5. [Respondent's Certification](#)

By submitting a Proposal, the Proposer certifies that the Proposer has fully read and understands the Proposal method and has full knowledge of the scope, nature, and quality of work to be performed.

Each Proposer shall complete the "Respondent's Certification Form," included with this Request for Proposals as Attachment "A," and submit the form with their Proposal. The failure of a Proposer to submit this document will be cause for rejection of the Proposal.

9.6. [Conflict of Interest Disclosure](#)

Proposer shall provide the required "Conflict of Interest Disclosure Form" as attached to this RFP as Attachment "B."

9.7. [General Business Information](#)

Proposals shall provide:

- A. A copy of the Respondent's current W-9.
- B. Legal Name of Proposer, the address of Proposer's principal place of business, phone number, fax number, name of principal in charge and email address.
- C. Name(s) of person(s) to be contacted for information or services if different from name of principal in charge.
- D. Business Form - State if Proposer's business is local, national, or international and indicate the business's legal status (corporation, partnership, etc.) Provide the date the Proposer was organized or incorporated and state of incorporation. If the Proposer is a joint venture, please list the partners and the date such joint venture was formed.
- E. Indicate whether the Proposer's business is a parent or subsidiary in a group of firms/agencies.
- F. Provide the location of the office from which the work is to be performed and the number of professional staff employed at the office.
- G. State if the Proposer's business is licensed, permitted and/or certified to do business in the State of Florida and attach copies of all such licenses issued to the business entity.
- H. Copies of all required contractor licenses.

9.8. [Confidential and/or Proprietary Information Exemption Form](#)

Proposer shall provide the required Confidential and/or Proprietary Information Exemption form as attached to this RFP as Attachment "C." If Proposer asserts confidentiality to any portion of its proposal, Proposer is reminded to submit a redacted copy of its proposal pursuant to **section titled "Proposal Preparation and Format; Proprietary Information."**

9.9. [Bid Security/Bond](#)

Bid Security shall be made payable to CITY, in an amount of ten percent (10%) of the Bidder's Total Base Bid and in the form of a certified or cashier's check, a Bid Bond issued by a Surety meeting the requirements of paragraph 29.B. of this RFP document, or other security as provided by law.

9.10. Proposer's Experience

- A. The Proposer shall submit a statement describing the Proposer's relevant experience for performing the Scope of Services set forth in this solicitation.
- B. The Proposer's experience should be supported by the references listed on Attachment "D", which shall be completed and submitted by the Proposer with its Proposal.
- C. The Proposer shall provide a description of the Proposer and subcontractor's current and planned workloads identifying all ongoing and awarded projects if the projects are not previously listed in the experience above, Respondents shall identify the name, location, brief scope of project, cost, project timing include planned completion dates as part of this requirement.
- D. The Proposer shall provide a list of all contracts in which your firm was terminated for cause by a governmental agency in the ten (10) years prior to the date of submittal of Proposals for this solicitation.
- E. The Proposer shall provide a narrative description and such other information, if any, as Proposer deems necessary to demonstrate the Proposer's financial strength and capacity to perform the Scope of Work set forth in this RFP for the term of the Contract. The Proposer shall state if there are any known financial issues that will prevent the Proposer from performing the Scope of Work set forth in this RFP for the term of the Contract. The City reserves the right to request such additional financial information regarding a Proposer as it deems necessary or appropriate from the Proposer or from any other party having relevant information, including but not limited to utilizing Dun and Bradstreet or other financial reporting companies' financial reports for evaluation purposes or to request credit references in its review process.
- F. The Proposer shall state if they are involved in an ongoing bankruptcy as a debtor, or in a reorganization, liquidation, or dissolution proceeding, or if a trustee or receiver has been appointed over all or a substantial portion of the property of the Proposer under federal bankruptcy law or any state insolvency law.

9.11. Proposer's Assigned Management Team

- A. The Proposer shall submit a statement of experience and resumes of key personnel who will be assigned to the City's Contract, their academic background, and their experience on other similar projects. The Proposer should indicate the name of the City designated account manager with a statement of their experience and resume. The City designated account manager should have an office in Florida.

B. Sub-contractors, Suppliers, and Design Professionals

1. The Proposer shall submit a list of sub-contractors and suppliers the Proposer intends to utilize under this contract, the sub-contractors' key personnel that would be assigned to the City's Contract, and their academic background and experience on other similar projects.
2. The Proposer shall submit a formal list of intended design professionals, sub-contractors and suppliers, including primary place of business, and estimated dollar amount.
3. Contractor, subcontractors and design professionals shall be licensed by appropriate Florida authorities / board as appropriate and required by law. The Proposer shall include a statement indicating the licensing status, including license number, of Contractor, subcontractors and design professionals required to be licensed in Florida and identified in your proposal.

9.12. [Equipment and Warranties](#)

- A. The Proposer shall submit a Equipment List and Detailed Pricing Breakout including but not limited to description, specifications, brand, model number, unit cost, and quantities.
- B. The Proposer shall submit Proposed Equipment Drawings/Renderings/Cut Sheets.
- C. The Proposer shall submit warranty information for each application.
- D. The Proposer shall the describe services that are provided as part of the two (2) year parts and labor warranty.
- E. The Proposer shall the describe the level of integration between all system components.
- F. The Proposer shall provide proposed spare parts inventory as part of the bid submission per Section 5.6 of this RFP Document which states "The Proposer shall supply a spare parts inventory containing 2% spare lighting units, 2% spare power supplies, and a minimum of one (1) of every other critical component including fiber modems. Spare parts inventory shall be based on quantity of components used to manufacture the display(s)."

9.13. [Project Approach to Provision of Work](#)

- A. Proposer shall submit a project schedule in Gantt chart format outlining equipment delivery dates and installation start and finish dates. Project schedule

shall be broken down into sufficient detail (work task and duration) to permit the City to monitor installation progress on a daily basis.

- B. The Proposer shall provide work schedules demonstrating the Proposer's plan for working around the Kia Center event schedule. The Kia Center Event Schedule is attached to the RFP document as Exhibit "3" which subject to change.
- C. The Proposer shall provide their payment/invoicing schedule for this project.

9.14. Pricing Proposal

- A. The Proposer shall complete Attachment "G" - Price Proposal Form of this RFP document in it's entirety. Partial Proposals will not be accepted.
- B. The Proposer must submit proposals for the complete package including all required equipment, installation and functional connection of all equipment as described in this document. A proposal submitted in response to this RFP signifies the Proposer agrees to sell to the City the indicated products, in whole or in part, at the sole discretion of City.
- C. The RFP shall act as a description of the minimum system requirements desired by the City and Proposers are required to provide a solution for the base proposal. Proposers that provide the base proposal mentioned above are also encouraged to offer viable alternatives. Alternatives will not accepted from Proposers that do not submit a complete base proposal.
- D. Change orders will not be accepted for errors in estimating the cost of the project. It is the responsibility of the Proposer to confirm the existing structural, electrical and data conditions. Vendors are required to view on-site conditions prior to submitting a proposal.
- E. It shall be the Proposer's responsibility to research the facility's event schedule to ensure there are no scheduling conflicts regarding installation of the systems components. Proposers are required to provide a proposed project schedule to determine if work will be required on weekends or if extended shifts will be required. Proposer's will not be allowed to increase their costs because of the Proposer's failure to research this aspect of their proposal. Kia Center is normally open for business 7 days per week, except national and state holidays.
- F. All expenses such as but not be limited to travel, lodging, meals and telephone/faxes/copiers associated with delivery of the services contemplated by this RFP shall also be included in the total price. There will be no separate reimbursement for such expenses under this total fee/total price arrangement.

[9.15. Minority/Women-Owned Enterprise Participation in Subcontracts](#)

Proposer shall provide the required Minority/Women-Owned Enterprise Participation form as attached to this RFP as Attachment "E."

[9.16. Veteran Business Enterprise Participation in Subcontracts](#)

Proposer shall provide the required Veteran Business Enterprise Participation form as attached to this RFP as Attachment "F."

[9.17. Human Trafficking Affidavit](#)

The Vendor hereby represents, warrants, and certifies that Vendor does not use coercion for labor or services as defined in Section 787.06, Florida Statutes and that Vendor has provided the Human Trafficking Affidavit attached hereto as Attachment "H."

A completed Human Trafficking Affidavit should be included with your Submittal. A contract shall not be awarded to a Respondent who does not submit the form at the time of submittal or within seven (7) days of the date the City requests the form be submitted, if a Respondent fails to return the form with its response.

10. DELIVERY OF PROPOSALS

Except as provided in **Section titled "Americans with Disabilities Act,"** for people needing special accommodations, to be responsive proposals for this solicitation must be submitted electronically. Paper responses will be deemed non-responsive.

[10.1. Instructions for submitting a proposal](#)

- A. Once you have logged into your OpenGov account, go to the solicitation in which you want to bid/participate on. Then click on "Draft Response," complete the information requested, upload your bid/quote/submittal, along with all required attachments, and submit.

Respondents are solely responsible for ensuring that their submittals are complete, uploaded and submitted in the e-Procurement Portal by the due date and time. The City shall not be responsible for any submission delays or failures caused by any occurrence.

[10.2. Proposal Binding](#)

All Proposals submitted shall be binding for one hundred eighty (180) calendar days following opening.

[10.3. Late Proposals](#)

Proposals received by the City after the time specified for receipt will not be considered. Proposers shall assume full responsibility for timely delivery of the Proposals to the location designated for receipt of Proposals.

11. CONFORMANCE TO SOLICITATION

All Proposals submitted shall meet and conform to all material, mandatory requirements set forth in this RFP, provided that nothing herein shall be deemed to limit the City's ability to waive minor irregularities without notice or the need to issue a written addendum.

If a Proposer desires to submit a Proposal which, if selected by the City, would require the City to waive, alter or omit a material, mandatory requirement set forth in this RFP, the Proposer must first submit a request to the City asking the City to amend the requirements of this RFP in the same manner provided for the submission of written questions by Proposers provided in the section of this RFP entitled "Questions Regarding Solicitation or Proposal Process." If the City, in its discretion, agrees to amend, alter, or waive the requirement, the City shall issue notice to all prospective Proposers of the change in the form of a written addendum.

Any request to waive, alter, or amend a mandatory requirement of the RFP should be in the form of a written question that can be answered in an Addendum issued to all prospective Proposers. Please note, the City is not asking the Proposer to send in their Proposals prior to the submission date, but merely to request a waiver or amendment to a mandatory requirement necessary to allow submission of the intended Proposal.

12. EVALUATION CRITERIA

An Advisory Committee will be established to review all responsive Proposals. Proposals will be evaluated for short listing (if applicable) and final ranking using the evaluation criteria set forth herein. The information that will be considered for each criteria is as follows:

No.	Evaluation Criteria	Scoring Method	Weight (Points)
1.	Experience of Proposer This criteria will include, but will not be limited to, evaluation of the Proposer's ability to supply all equipment as described in RFP; Proposer's capacity, capability, and overall competency to perform the specified work; and information submitted in response to <u>Section 9.9 – Proposer's Experience</u> .	Points Based	20 (20% of Total)
2.	Proposer's Assigned Management Team This criteria will include, but will not be limited to, evaluation of the Proposer's information submitted in response to <u>Section 9.10 – Proposer's Assigned Management Team</u> .	Points Based	14 (14% of Total)

3.	Project Approach to Provision of Work This criteria will include, but will not be limited to, evaluation of the Proposer's information submitted in response to <u>Section 9.12 - Project Plan.</u>	Points Based	20 (20% of Total)
4.	Equipment and Warranties This criteria will include, but will not be limited to quality of individual products; level of integration between all system components; warranty and service provisions and evaluation of the Proposer's information submitted in response to <u>Section 9.11 - Equipment and Warranties</u>	Points Based	14 (14% of Total)
5.	Price Proposal This criteria will include, but will not be limited to, evaluation of the pricing information submitted.	Points Based	20 (20% of Total)
6.	Minority and Women Owned Business Enterprise - The degree of participation by City certified or recognized M/WBE in subcontracts This criteria will include, but will not be limited to, evaluation of the information submitted in response to Attachment "E."	Points Based	10 (10% of Total)
7.	Veteran Business Enterprise participation in subcontracts This criteria will include, but will not be limited to, evaluation of the information submitted in response to Attachment "F."	Points Based	2 (2% of Total)

13. PROPOSAL ADVISORY COMMITTEE AND EVALUATION PROCESS

13.1. [Initial Review of Responses](#)

The Procurement and Contracts Division will perform an initial review of all Proposal submittals for preliminary qualification and documentation compliance. This review process may include, but is not limited to, forms verification, professional licensing, references, past performance, and other relevant criteria.

13.2. [Advisory Committee](#)

An Advisory Committee (hereinafter referred to as "the Committee") consisting of at least five (5) members will be established to review, discuss, and evaluate all responsive Proposals submitted in response to this Request for Proposals (RFP). The Committee may utilize City staff and/or consultants who are not members to advise and assist the Committee in its review of the Proposals. The subsequent inability of one or more

committee member to serve or complete service on a committee shall not require the appointment of a new committee or a replacement committee member even if the loss of such member(s) causes the number of remaining committee members to fall below five (5).

13.3. Preliminary Evaluation; Short Listing

The Committee may conduct a preliminary evaluation of all Proposals on the basis of the information provided and, if the Committee deems desirable in its discretion, it may elect to short list two or more Proposers using the evaluation criteria set forth in this solicitation. Upon short listing by the Committee, only those Proposers short listed shall remain eligible for further evaluation and consideration by the Committee.

13.4. Presentations

The Committee reserves the right to require oral presentations from and conduct pre-award discussion and/or pre-Contract negotiations with any or all responsive and responsible Proposers who submit Proposals determined to be reasonably acceptable of being selected for award. Presentations and pre-award discussions and negotiations may be limited at the discretion of the Committee to short listed Proposers. Discussions may be conducted for the purpose of clarification and to assure full understanding of, and responsiveness to, the solicitation requirements. The City will not be liable for any costs incurred by the Proposer in connection with such interviews, presentations, or negotiations (i.e., travel, accommodations, etc.).

13.5. Optional Discussion

At the discretion and in the best interest of the City, the City or Committee may conduct discussions with Proposers (or the short listed Proposers, as applicable) or seek revision of Proposals from Proposers (or the short listed Proposers, as applicable) deemed to be responsible and reasonably acceptable to be selected. Such Proposers (or short listed Proposers) will be accorded fair and equal treatment with respect to discussion and revision of the Proposals. Revisions may be permitted after submission of Proposals and prior to award of a Contract for the purpose of obtaining best and final offers.

13.6. Award Without Presentations

The City may evaluate and award a Contract based on responses to this Request for Proposals without discussions or oral presentations. Therefore, each response to this RFP should contain the Proposer's best terms and conditions for consideration.

13.7. Scoring and Final Ranking

Each Advisory Committee member will evaluate the proposals based on the factors set forth in the Evaluation Criteria of the RFP and assign a score for each criteria ranging from zero (0) points to the maximum points allowed for each rating criteria. The individual criteria scores will then be added to determine the total score. The maximum possible total score is one hundred (100). After scoring, each Advisory Committee member will rank the Proposers based upon the member's total scores for each proposal. The ranking

established by each member will be accumulated to determine the final ranking. Each member's top-ranked firm will be assigned one (1) point, second ranked firm two (2) points and so on. After accumulating the members' points, the Proposer with the lowest points shall be ranked first, the next lowest points shall be ranked second, and so on.

In the event of a tie, the tied Respondents' total scores from each member will be added and compared. The Respondent with the highest total scores will be ranked highest of the tied Respondents. If the total scores of two or more of the tied Respondents also results in a tie, the City's Chief Procurement Officer, or designee, may instruct the Advisory Committee to conduct further deliberations, evaluations and rescoring of the Respondents until a ranking, or total score, without a tie is achieved.

The Committee will evaluate and rank the responsive Proposers deemed reasonably acceptable to be selected (or the short listed Proposers, as applicable) as set forth in the preceding section entitled "Evaluation Criteria". In the event that the Committee previously elected to short list Proposers, any rankings or scores assigned as part of the short listing process shall not be binding on the Committee or its members as part of final evaluation and Committee members may modify their scores for any and all Proposers and scoring categories as they deem appropriate in their sole discretion. The Committee shall submit the proposed rank order to the Chief Procurement Officer after the conclusion of scheduled presentations, if any. Upon approval of the ranking by the Chief Procurement Officer, the Chief Procurement Officer shall post a notice of intended action. The notice of intended action may be obtained by the Proposers as set forth in the section of this RFP titled "Request for Proposals Information."

13.8. Authority to Award

Contracts shall be awarded in accordance with the provisions of the City's Procurement Code, Chapter 7 of the City of Orlando's Code of Ordinances. Award of contracts in excess of One Hundred Thousand Dollars (\$100,000) shall be subject to City Council approval.

13.9. Reserved Right

The City, at its sole and absolute discretion, reserves the right to reject any and all, or parts of any and all proposals, to re-advertise this solicitation, postpone or cancel, at any time, this solicitation process, or to waive minor irregularities and informalities in this RFP or in the proposals received as a result of this RFP. The City does not guarantee the award of any Contract as a result of this solicitation process.

14. GENERAL TERMS AND CONDITIONS

14.1. Communications with the City, Agency, or Board; Prohibited Contacts

To protect the integrity of the solicitation process and ensure fair consideration of all respondents, a prohibited communication period is hereby established commencing as of the time of the issuance of this solicitation and terminating upon execution of a contract (or, if the solicitation is cancelled, upon cancellation of the solicitation). Except for

communication with the City's designated point of contact set forth in this solicitation or as otherwise authorized by the City's Chief Procurement Officer, during the prohibited communication period, the City prohibits communication regarding the solicitation by a respondent or potential respondent (or on a respondent or potential respondent's behalf) to or with any officer, elected official (including the Mayor and City Council), department, division, office, or employee of the City, and any Advisory Committee members or other people or entities providing advice to the City or the Advisory Committee related to this solicitation including Anthony James Partners (AJP). During the prohibited communication period, all contacts and communications regarding the solicitation by a respondent, or potential respondent, including their agents, representatives or others on their behalf, shall be directed to the City's Procurement and Contract Services Division in the manner provided below in this solicitation, unless otherwise authorized by the City's Chief Procurement Officer. Prohibited contact or communications during the prohibited communication period may result in disqualification from the solicitation process, rejection of the solicitation, or termination of any resulting contract as determined by the Chief Procurement Officer. In addition, prohibited contact or communications may also be grounds for suspension and debarment of a respondent or potential respondent under the City's Procurement Code.

14.2. Questions

Any questions relative to interpretation of the solicitation or the solicitation process shall be addressed in writing as indicated below. In order to be answered prior to the submittal deadline, questions must be received by the Procurement and Contracts Division on or before the cut-off date for questions as specified in the Proposal Schedule. Any interpretation made to prospective Proposers with respect to questions submitted prior to the cut-off date for questions will be expressed in the form of an addendum to the solicitation which, if issued, will be conveyed in writing to all prospective Proposers no later than five (5) days prior to the date set for receipt of Proposals. Oral answers will not be authoritative.

14.3. Addenda

It will be the responsibility of the Proposer to contact the Procurement and Contracts Division prior to submitting a Proposal to ascertain if any addenda have been issued, to obtain all such addenda, and to return executed addenda with the Proposal.

14.4. Point of Contact

All communication and contact regarding this solicitation shall be directed to:

Tara Urdininea, CPP, Purchasing Agent II

City of Orlando

Procurement and Contracts Division

City Hall at One City Commons

400 S. Orange Avenue, Fourth Floor

Orlando, Florida 32801

Telephone: (407) 246-2368

Fax: (407) 246-2869

Email: tara.urdininea@orlando.gov

Website: <http://www.orlando.gov/procurement/>

15. ADDITIONAL INFORMATION

The City reserves the right to request that the Proposer provide additional information it deems necessary to evaluate, clarify, or substantiate any area contained in each submitted Proposal and to more fully meet the needs of the City. This includes information which indicates financial resources as well as ability to provide and maintain the system and/or services. Moreover, the City reserves the right to make investigations of the qualifications of the Proposer as it deems appropriate, including but not be limited to, a background investigation conducted by the Orlando Police Department.

16. ADDENDUM TO REQUEST FOR PROPOSALS

If it becomes necessary to revise or amend any part of this Request for Proposals before the Proposal due date, the Chief Procurement Officer will furnish the revision by written Addendum.

It is the Respondent's responsibility to contact the Procurement and Contracts Division prior to submitting a response to ascertain if any Addenda have been issued, to obtain all such Addenda, and return executed Addenda with the response, if applicable. All addenda information will be posted on the City's website (<https://procurement.opengov.com/portal/orlando>). The failure of a Respondent to submit acknowledgment of any Addenda that affects the price(s), is considered a major irregularity and will be cause for rejection of the response.

17. APPLICABLE LAW AND APPEALS

This Request for Proposals is issued in accordance with and shall be governed by the provisions and procedures of Chapter 7 of the City of Orlando's Code which can be accessed online at:

https://www.municode.com/library/fl/orlando/codes/code_of_ordinances?nodeId=TITIICICO_CH7PRCO or by contacting the Procurement and Contracts Division. Any appeal of matters relating to this solicitation must be filed in accordance with the requirements of Chapter 7 of the City Code.

18. CONTRACT

The Contract form that the City intends to use for the award is included with this RFP as Exhibit “1” for reference. While this draft Contract contains standard legal language and is not routinely modified, any exceptions to this standard Contract should be clearly indicated and Proposer understands that such exceptions may affect the evaluation of the Proposal submittal. Modification or alteration of this Contract shall only be valid if mutually agreed to in writing by the parties.

19. EXECUTION OF CONTRACT

Unless such time is extended by the City, the successful Proposer shall, within fifteen (15) calendar days after Notice of Award is issued by the City of Orlando, Procurement and Contracts Division, sign and enter into a Contract with the City, and simultaneously provide any required bonds, indemnities and insurance certificates. Failure to comply with the established deadline for submittal of required documents may be grounds for cancellation of the award.

20. AFFILIATED AGENCIES

This solicitation is issued by the City of Orlando on behalf of itself and its affiliated agencies, including but not limited to the Community Redevelopment Agency of the City of Orlando (“CRA”), the Downtown Development Board (“DDB”), and the Downtown South Neighborhood Improvement District (“DSNID”) (each an “Affiliated Agency”). Upon the written agreement of the Contractor and an Affiliated Agency (or upon the issuance of a Purchase Order by an Affiliated Entity in circumstances here the City places orders by Purchase Order), Contractor shall provide such goods and/or services as set forth in this solicitation to an Affiliated Agency upon the same pricing, terms, and conditions set forth in the Contract between the City and Contractor, unless otherwise agreed in writing by the Contractor and the Affiliated Agency. Except as may otherwise be expressly provided in the agreement or Purchase Order authorizing the acquisition of the goods or services, (i) the procuring Affiliated Agency shall be solely responsible for all obligations and duties, and shall have all rights of the City, with respect to the goods or services procured by the Affiliated Agency; and (ii) Contractor shall look solely to the procuring Affiliated Agency for payment and the performance of any and all other obligations for goods or services contracted for by a procuring Affiliated Agency. With respect to work performed for an Affiliated Agency, actions may be taken on behalf an Affiliated Agency by the Chief Procurement Officer of the City of Orlando, or his designee(s).

21. EMPLOYMENT ELIGIBILITY; E-VERIFY SYSTEM

This Contract is subject to the terms, conditions, provisions and requirements of Section 448.095 of the Florida Statutes which is incorporated herein by this reference. Pursuant to Section 448.095 of the Florida Statutes, Contractor represents and warrants that it has registered with and uses the E-Verify System to verify the work authorization status of all newly hired employees and shall continue to do so at all times during the term of the Contract. If Contractor enters into a contract with a subcontractor, the subcontractor must

provide the Contractor with an affidavit stating that the subcontractor does not employ, contract with, or subcontract with an unauthorized alien.

22. RIGHT TO AUDIT RECORDS

The City shall be entitled to audit the books and records of a Contractor or any subcontractor to the extent that such books and records relate to the performance of such Contract or sub-contract. Such books and records shall be maintained by the Contractor for a period of five (5) years from the date of final payment under the prime Contract and by the sub-contractor for a period of five (5) years from the date of final payment under any sub-contract unless a shorter period is otherwise authorized in writing. If any litigation, claim, negotiation, audit or other action involving the records has been started before the expiration of the 5-year period, the records must be retained until completion of the action and resolution of all issues which arise from it, or until the end of the regular 5-year period, whichever is later.

23. FISCAL YEAR FUNDING APPROPRIATION

23.1. Specified Period

Unless otherwise provided by law, a Contract for supplies or services may be entered into for any period of time deemed to be in the best interest of the City, provided funds are available for the first fiscal period at the time of Contract. Payment and performance obligations for succeeding fiscal periods shall be subject to appropriation by City Council of funds therefore.

23.2. Cancellation Due to Unavailability of Funds in Succeeding Fiscal Periods

When funds are not appropriated or otherwise made available to support continuation of performance in a subsequent fiscal period, the Contract shall be cancelled, and the Contractor shall be entitled to reimbursement for the reasonable value of any nonrecurring cost incurred but not amortized in the price of the supplies or services delivered under the Contract or otherwise recoverable.

24. PUBLIC ENTITY CRIMES

A person or affiliate, as defined in §287.133 of the Florida Statutes, who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a Proposal to provide any goods or services to a public entity, may not submit a Proposal with a public entity for the construction or repair of a public building or a public work, may not submit Proposals on leases of real property to a public entity, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a Contract with any public entity, and may not transact business with any public entity in excess of the threshold amount provided in §287.017 of the Florida Statutes for Category Two, for a period of 36 months from the date of being placed on the convicted vendor list.

25. PROMPT PAYMENT ACT

Payment by the City shall be made in accordance with Sections 218.70. et sq. Florida Statutes, Local Government Prompt Payment Act.

26. INVOICES

All invoices, in order to be classified as a proper invoice, shall be delivered to Accounts Payable, Finance Department, City of Orlando, 400 South Orange Avenue, P.O. Box 4990, Orlando, Florida, 32802-4990.

For purposes of billing submission and payment procedures, a "proper invoice" by a Contract or, consultant or other invoicing party shall conform to the following process:

- A. A description (including quantity) of the goods and/or services provided to the City (or a party on behalf of the City) reasonably sufficient to identify it (or them);
- B. The amount due, applicable discount(s), and the terms thereof;
- C. The full name of the vendor, Contractor or other party who is supplying the goods and/or services including a mailing address in case of a dispute and a mailing address for payment purposes (if they are different) and a telephone number;
- D. The Purchase Order or Contract number as supplied by the City;
- E. An identification by Division, Office or Department of the party(ies) to whom the goods were delivered or services provided; and
- F. In order to be considered as a proper invoice, it must be based on (a) a proper delivery, (b) installation, or (c) provision of the goods and/or services acceptance by the City; and the vendor, contractor or other party who is supplying the goods and/or services has otherwise complied with all of the Contract's terms and conditions and is not in default of any of them.

27. DISPUTE RESOLUTION

In the event a dispute occurs between a contractor, vendor or other invoicing party ("invoicing party") and the City concerning payment of an invoice, the City Department, Office or Division which has the dispute along with a representative of the City's Procurement and Contracts Division and the invoicing party shall meet to consider the disputed issues.

The invoicing party shall provide to the City such material and information as the City may reasonably require. Any such procedure shall be initiated by either party notifying the other in writing of a dispute and stating with specificity its nature. This procedure shall commence not later than forty-five (45) days, and be resolved not later than sixty (60) days, after the date on which the proper invoice was received by the City. Any decision by the Chief Procurement Officer shall constitute the final decision of the City regarding

these matters and shall be communicated in writing to the invoicing party within three business days after such decision.

If no decision is rendered within the time period as set out above, then a decision against the invoicing party shall be deemed to have been issued.

28. PROPOSER'S GUARANTEE

By submitting a Proposal, a Proposer warrants that no one was paid a fee, commission, gift, or other consideration contingent upon receipt of an award for the services and/or supplies specified herein.

29. INSURANCE / BONDS

Insurance, Payment Bond and Performance Bond coverage required by the Contract or terms and conditions as set forth in this Request for Proposals must be in force throughout the term of the Contract ("Contract Term"). Should a Contractor fail to provide acceptable evidence of current insurance and/or a Performance Bond within seven (7) days prior to the expiration date of an insurance policy or bond at any time during the Contract term, the City shall have the absolute right to terminate the Contract without any further obligation to the Contractor. The Contractor shall be liable for the entire additional cost of procuring performance and the cost of performing the incomplete portion of the Contract at the time of termination. It is highly recommended that proposers confer with their respective insurance carriers or brokers to determine, in advance of their proposal submission, the availability and cost of the required insurance, related endorsements, and bonds.

A. Insurance Requirements are listed in the sample contract that has been provided as Exhibit "1" of this RFP.

B. Performance, Payment and Other Bond Requirements

1. The Contractor shall furnish a Performance Bond and a Payment Bond, each with good and sufficient surety, and each in an amount at least equal to the Contract Price. These Bonds shall be recorded by the Contractor with the Clerk of the Circuit Court of the county where the Project is located and the Contractor shall provide to the City a certified copy of the recorded bond no later than the Date of Commencement of the Contract Time. These Bonds shall remain in effect at least until one (1) year after the date of Substantial Completion of the entire work, except as otherwise provided by Laws or Regulations, or the other provisions of the Contract Documents. Contractor shall also furnish such other Bonds as are required by the Supplementary Conditions. The Performance Bond requirement in the Contract Documents shall inure solely to the City and its successors or assigns, as obligee, and no other person shall have any right of action based thereon.

2. All Bonds shall be in accordance with statutory bond provisions in Florida Statutes and all other applicable Laws and Regulations and be in the form prescribed by the Contract Documents. All Bonds shall be executed by such sureties as are licensed to conduct business in the state of Florida and, except as otherwise provided by Laws and Regulations, are named in the current list of "Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Companies" as published in Circular 570 (amended) by the Audit Staff Bureau of Accounts, U.S. Treasury Department. The sureties which issue the Performance and Payment Bonds must have at least an "A-" rating in accordance with the most current A.M. Best Company financial strength ratings. All Bonds signed by an agent must be accompanied by a certified copy of its authority to act.
3. If the surety on any Bond furnished by Contractor is declared bankrupt or becomes insolvent or its license to do business in the state of Florida is terminated or it ceases to meet the requirements of the Contract Documents, Contractor shall within five (5) days thereafter substitute another Bond and surety, both of which shall be in accordance with the Contract Documents and acceptable to City.
4. In addition If the City has a reasonable objection to the proposed Surety, the City may request the awarded Proposer to submit an acceptable substitute without an increase in the total base bid. If the awarded Proposer declines or is unable to make any such acceptable substitution, the City may, at its sole option, rescind the Notice of Award, and any award of the Contract to awarded Proposer will be of no effect. The refusal or inability to make any such substitution may constitute grounds for sacrificing its Bid Security.

30. FLORIDA SALES TAX

The City is a governmental agency and a political subdivision under Florida law. Purchases by the City under this Contract are exempt from Florida sales tax: The City's tax exempt number is 85-8015427957C-9. No purchase made by any entity is qualified to be exempt other than those made directly by the City.

The City's sales tax exemption does not apply to goods and services purchased separately by a Contractor in connection with its fulfillment of its Contract obligations. The Contractor shall be responsible for paying any taxes, fees or similar payments which are required to be paid in connection with the Contract work.

31. DRUG-FREE WORKPLACE CERTIFICATION

By submitting a Proposal in response to this Request for Proposals, the Proposer is certifying that their company is a drug-free workplace in accordance with Florida Statute §287.087.

32. AMERICANS WITH DISABILITIES ACT

Persons with disabilities needing a special accommodation to participate in this proceeding should contact the Procurement and Contracts Division, City Hall at One City Commons, 400 South Orange Avenue, Orlando, P.O. Box 4990, Florida 32802-4990, telephone (407) 246-2291, not later than seven (7) days prior to the date on which the accommodation is requested.

33. RECIPROCAL LOCAL PREFERENCE

In the event the most responsive and responsible response to any Request for Proposals is by a Proposer whose principal place of business is in a city, county, or state which grants a preference for the procurement of such goods or services to a vendor whose principal place of business is in such area, then the City may award a preference to the (next) most responsive and responsible Proposer having a principal place of business in the Metropolitan Statistical Area, (i.e., Orange, Seminole, Lake and Osceola Counties). Such preference shall be equal to the preference granted by the area in which the most responsive and responsible vendor has its principal place of business

34. PURCHASING CONTRACTS W/ OTHER GOVERNMENT AGENCIES

At the option of the awarded Proposer, the submission of any Proposal in response to this Request for Proposals constitutes a Proposal made under the same terms and conditions, for the same Contract price, to other governmental agencies including the State of Florida, and its agencies, political subdivisions, counties and cities. Each governmental agency desiring to accept these Proposals, and make an award thereof, shall do so independently of any other governmental agency. Each agency shall be responsible for its own purchases and each shall be liable only for materials and/or services ordered and received by it, and no agency assumes any liability by virtue of this Proposal.

35. FOREIGN CORPORATION

In accordance with F.S. 607.1501, and provided an exemption is not available, a foreign corporation may not transact business in Florida until it obtains a certificate of authority from the Florida Department of State. Foreign corporations may submit bids or Proposals prior to obtaining a certificate of authority from the Florida Department of State. A foreign corporation must be in compliance with F.S. 607.1501, prior to entering into a Contract with the City of Orlando.

36. SUBCONTRACTORS

The Proposer shall perform all of its obligations and functions under the Contract by means of its own employees, or by a duly qualified sub-contractor, which is approved in advance by the City. In the event a subcontractor is employed, the Proposer shall continuously monitor the subcontractor's performance, shall remain fully responsible to ensure that the subcontractor performs as required and itself perform or remedy any obligations or functions, which the subcontractor fails to perform properly.

37. PURCHASING CARD PROGRAM

The City uses the VISA Purchasing Card Program to streamline our procurement process. In order to expedite payments to suppliers, the J.P. Morgan purchasing card program and Virtual Card solution has been implemented to more effectively control our procurement activities and to achieve a significant cost savings over the traditional paper, purchasing, and payment system.

As one of the City of Orlando's valued suppliers, your business can also achieve cost savings results by accepting the Virtual Card solution.

Identified supplier benefits of this Program are:

- Get paid faster – Virtual card payments will be made after invoice approval, ACH will be net 30, and check net 45
- Improve Days Sales Outstanding (DSO)
- Electronic payment that eliminates the cost of processing checks
- Payment within 48 hours
- Improve cash flow
- Increased working capital
- Reduced collection efforts and administrative expenses
- Enhanced corporate relationships
- Enhanced reporting
- Increased sales as a "Preferred Supplier"
- Streamlined reconciliation with remittance details included with electronic payment in email notification
- Lower carrying costs
- Less paper/manual work
- Dedicated supplier portal to view status of receivables

38. LIVING WAGE POLICY

As set forth in City Policy and Procedure 161.3 (for a copy, contact Procurement at 407.246.2291). Covered Service Contractors, as well as their subcontractors (first tier only for non-construction, all tiers for construction), shall pay to all of their employees providing Covered Services pursuant to a contract with the City, a living wage for the time spent providing services to the City. (This provision does not include general administrative personnel unless they are assigned to a City project.) “Living wage” means compensation for employment of not less than \$15.00 per hour for straight time, exclusive of FICA, unemployment taxes, and workers compensation insurance and employee benefits. Unless amended by the parties, the applicable Living Wage rate in effect when the solicitation is issued shall be applicable for the entire term of the resulting contract, including any renewals. Necessary payroll documentation shall be provided to confirm compliance with this provision or the Respondent shall allow the City to audit (at Respondent’s place of business) its payroll records to determine if compliance has been achieved. Failure to comply with the provision may result in termination of the contract and/or preclusion from future City contracts at the sole option of the City. This provision shall apply to all bid and proposal awards for services which involve City expenditures that exceed \$100,000.00 per year.

More particularly, this provision shall apply to single and multiple award Contracts for services regardless of the initial value of the award whenever City expenditures exceed \$100,000.00 in any one Contract year. As for multiple award Contracts (Contract award which will be divided among several Contractors), at the point when the City has expended \$100,000.00 on that Contract in any one-Contract year, regardless of whether such expenditure was to one Contractor or several, then the living wage provision shall apply to all Contractors who are a party to that award. For those Contracts whose initial value was less than \$100,000.00 but exceeded \$100,000.00 prior to the end of the Contract term, this provision will be applicable to that Contract in the next quarter. To further clarify, the Living Wage policy does not apply to part time employees, or the part time employees of all subcontractors. Furthermore, the workers of temporary employment agencies are not covered by the City’s Living Wage Policy.

39. PROHIBITION - CONTRACTING WITH SCRUTINIZED COMPANIES

In accordance with Section 287.135(2) of the Florida Statutes, “[a] company is ineligible to, and may not, bid on, submit a proposal for, or enter into or renew a contract with an agency or local governmental entity for goods or services of:

- A. Any amount if, at the time of bidding on, submitting a proposal for, or entering into or renewing a contract, the company is on the Scrutinized Companies that Boycott Israel List, created pursuant to s. 215.4725, or is engaged in a boycott of Israel; or

-
- B. One million dollars or more if, at the time of bidding on, or submitting a proposal for, or entering into or renewing such contract, the company:
1. Is on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Terrorism Sector List, created pursuant to s. 215.473, or
 2. Is engaged in business operations in Cuba or Syria.”

Section 215.473 of the Florida Statutes defines a company to include “all wholly owned subsidiaries, majority-owned subsidiaries, parent companies, or affiliates of such entities or business associations, that exists for the purpose of making profit.”

By submitting a response to this solicitation, a respondent certifies that it and those related entities of respondent as defined above by Florida law above are not on the Scrutinized Companies that Boycott Israel List, created pursuant to s. 215.4725 of the Florida Statutes, and are not engaged in a boycott of Israel. In addition, if this solicitation is for a contract for goods or services of one million dollars or more, by submitting a response to this solicitation, a respondent certifies that it and those related entities of respondent as defined above by Florida law are not on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, created pursuant to Section 215.473 of the Florida Statutes and are not engaged in business operations in Cuba or Syria. Any respondent awarded a Contract as a result of this solicitation shall be required to recertify the aforementioned certifications at each renewal of the Contract. The City may terminate any contract resulting from this solicitation if respondent or any of those related entities of respondent as defined above by Florida law are found to have submitted a false certification or any of the following occur with respect to the company or a related entity: (i) it has been placed on the Scrutinized Companies that Boycott Israel List, or is engaged in a boycott of Israel, or (ii) for any contract for goods or services of one million dollars or more, it has been placed on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or it is found to have been engaged in business operations in Cuba or Syria. Notwithstanding the preceding, the City reserves the right and may, in its sole discretion, on a case by case basis, permit a company on such lists or engaged in business operations in Cuba or Syria to be eligible for, bid on, submit a proposal for, or enter into or renew a contract for goods or services of one million dollars or more, or may permit a company on the Scrutinized Companies that Boycott Israel List to be eligible for, bid on, submit a proposal for, or enter into or renew a contract for goods or services of any amount, should the City determine that the conditions set forth in Section 287.135(4) of the Florida Statutes are met.

Accordingly, firms responding to this solicitation shall execute and return with their response an executed copy of Attachment “D”, Certification Regarding Prohibition Against Contracting With Scrutinized Companies. A contract shall not be awarded to a Respondent who does not submit the certification form at the time of submittal or within

seven (7) days of the date the City requests the certification form be submitted, if a Respondent fails to return the form with its response.

40. SOFTWARE LICENSES

If this procurement involves the purchase of software products, then the following language is hereby incorporated: The software products to be purchased or subsequently licensed hereunder shall contain no computer viruses, other 'containments', including any codes, or instructions that may be used to access, modify, delete, damage, or disable purchaser's computer system.

41. NON-DISCRIMINATION

Contractor shall:

- A. Implement an employment nondiscrimination policy prohibiting discrimination in the performance of the contract in the hiring, discharging, promoting or demoting, matters of compensation, or any other employment-related decision or benefit on account of actual or perceived race, ethnicity, color, religion, national origin, gender, disability, age, military status, sexual orientation, gender identity, gender expression, or marital or familial status.
- B. Not discriminate in the performance of the contract on account of actual or perceived race, ethnicity, color, religion, national origin, gender, disability, age, military status, sexual orientation, gender identity, gender expression, or marital or familial status.
- C. Incorporate the foregoing requirements in all subcontracts related to its contract with the City.

42. GOVERNING LAW / VENUE

Any contract entered into as a result of this solicitation shall be deemed to be under and shall be governed by, and construed according to, the laws of the State of Florida. Any litigation arising out of this contract shall be commenced in the State and Federal Courts of Orange County, Florida. Contractor shall comply with all applicable federal, state, and local laws in the performance of work under the contract. To the extent applicable, Contractor shall comply with Florida public records laws, including Sections 119.0701(2) (b) 1 through 4 of the Florida Statutes. **IF THE CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONTRACTOR'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT THE CITY CLERK OR RECORDS AND ARCHIVES MANAGER AT, RECORDS@ORLANDO.GOV, TELEPHONE NUMBER (407) 246-2148, 400 S. ORANGE AVE., ORLANDO, FL 32801.**

43. RECOVERED MATERIALS

If the specifications contained herein require the use of recovered materials, by submitting a bid or response to this solicitation, a respondent agrees and certifies that it will meet such requirement. Upon the conclusion of any contract resulting from this solicitation requiring the use of recovered materials, the Contractor shall submit to the City's project manager for the work a statement regarding the actual percentage of recovered materials utilized in the completion of the contract.

44. PROHIBITION AGAINST CONSIDERING SOCIAL, POLITICAL, OR IDEOLOGICAL INTEREST IN GOVERNMENT CONTRACTING

Pursuant to Section 287.05701 of the Florida Statutes, vendors are notified that the City as a local government in Florida, is prohibited from requesting documentation of or considering a vendor's social, political, or ideological interests when determining whether a vendor is a responsible vendor, and from giving a preference based upon such interests.

45. VENDOR QUESTIONNAIRE / ATTACHMENTS

45.1. ADDENDUM RECEIPT VERIFICATION*

Respondents must acknowledge all issued addenda by confirming below. Failure to acknowledge may result in a non-responsive submittal.

The failure of a Respondent to submit/confirm acknowledgment of any addenda that affects price(s), is considered a major irregularity and will be cause for rejection of the Submittal.

The undersigned acknowledges receipt of all issued addenda:

☐ Please confirm

*Response required

45.2. CERTIFICATION REGARDING PROHIBITION AGAINST CONTRACTING WITH SCRUTINIZED COMPANIES*

I hereby certify that neither the undersigned entity, nor any of its wholly owned subsidiaries, majority-owned subsidiaries, parent companies, or affiliates of such entities or business associations, that exists for the purpose of making profit have been placed on the Scrutinized Companies that Boycott Israel List created pursuant to s. 215.4725 of the Florida Statutes, or are engaged in a boycott of Israel.

In addition, if this solicitation is for a contract for goods or services of one million dollars or more, I hereby certify that neither the undersigned entity, nor any of its wholly owned subsidiaries, majority-owned subsidiaries, parent companies, or affiliates of such entities or business associations, that exists for the purpose of making profit are on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, created pursuant to s. 215.473 of the

Florida Statutes, or are engaged in business operations in Cuba or Syria as defined in said statute.

I understand and agree that the City may immediately terminate any contract resulting from this solicitation upon written notice if the undersigned entity (or any of those related entities of respondent as defined above by Florida law) are found to have submitted a false certification or any of the following occur with respect to the company or a related entity: (i) it has been placed on the Scrutinized Companies that Boycott Israel List, or is engaged in a boycott of Israel, or (ii) for any contract for goods or services of one million dollars or more, it has been placed on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or it is found to have been engaged in business operations in Cuba or Syria.

☐ Please confirm

*Response required

45.3. [Proposer's Certification Form*](#)

Please download the below document, complete, sign, notarize, and upload.

- [ATTACHMENT A-Certification ...](#)

*Response required

45.4. [Conflict of Interest Disclosure Form*](#)

Please download the below document, complete, sign, and upload.

- [ATTACHMENT B-Conflict of In...](#)

*Response required

45.5. [Confidential and/or Proprietary Information Exemption Form*](#)

Please download the document below, complete, and upload.

- [ATTACHMENT C-Confidential F...](#)

*Response required

45.6. [References Form*](#)

Please download the document below, complete, and upload.

- [ATTACHMENT D-References \(1\)...](#)

*Response required

45.7. [Minority/Women Owned Business Enterprise Participation Form*](#)

Please download the document below, complete, and upload.

- [ATTACHMENT E - MWBE \(1\).pdf](#)

*Response required

45.8. [Veteran Business Enterprise Participation Form*](#)

Please download the document below, complete, and upload.

- [ATTACHMENT F-VBE.pdf](#)

*Response required

45.9. [Pricing Proposal*](#)

Please download the below document, complete, and upload.

- [Attachment G - Price Propos...](#)

*Response required

45.10. [Human Trafficking Affidavit*](#)

The Vendor hereby represents, warrants, and certifies that Vendor does not use coercion for labor or services as defined in Section 787.06, Florida Statutes.

A completed Human Trafficking Affidavit should be included with your Submittal. A contract shall not be awarded to a Respondent who does not submit the form at the time of submittal or within seven (7) days of the date the City requests the form be submitted, if a Respondent fails to return the form with its response.

Please download the Human Trafficking Affidavit below, complete, sign, notarize, and upload.

- [ATTACHMENT H-Human Traffick...](#)

*Response required

45.11. [Pre-Proposal Meeting Attendance Form](#)

Please download the below documents, complete, and upload.

- [ATTACHMENT I-Pre-Proposal A...](#)

45.12. [W-9 Form*](#)

Upload signed copy of Respondent's most current W-9 .

*Response required

45.13. [Proof of Insurance*](#)

Upload copy of Respondent's Certificate of Insurance.

*Response required

45.14. [Please upload your complete Request for Proposal through the City's e-Procurement Portal*](#)

Respondents are solely responsible for ensuring that their submittals are complete, uploaded, and submitted in the City's e-Procurement Portal by the due date and time.

*Response required

[45.15. Upload the bid bond, certified check or cashier's check made out to the City of Orlando, or other security as provided by law, in an amount not less than 10% of the total base bid.*](#)

Upload Here

*Response required

46. NO PROMOTION OR ADVERTISING BY CONTRACTOR

- A. The Contractor shall not display its trademarks or insignia upon any of the Equipment.
- B. The Contractor shall not name the Equipment or the fact that the equipment is installed at the Site in any part of its promotion or advertising of the Contractor's business (including, without limitation, any statement that it has supplied the Equipment or maintains same) without the written consent of the City, which consent may be withheld by the City with or without cause.

47. EQUIPMENT TITLE

At no time, including, without limitation, upon substantial performance and when title to the Equipment passes to City, will the City be liable for the payment of any royalties, license, or other fees to the Contractor or third parties because of the City's ownership, use or enjoyment of the Equipment or resulting from the replacement of broken or worn-out parts of the Equipment.

48. RELATIONSHIP OF THE PARTIES

- A. The relationship between Contractor and City is strictly that of an independent contractor. The contractor shall have no authority to enter into any contracts or incur any obligations binding upon City, unless City agrees in advance in writing.
- B. Contractor shall employ only competent foremen and experienced laborers on the project, and shall discharge or remove immediately, whenever requested to do so by City, any employee considered by City to be incompetent or disorderly.

49. WARRANTIES

- A. Contractor shall warrant and guarantee that title to all work, materials, and equipment covered by a request for payment, whether originally incorporated in the project or not, will pass to City, upon the receipt of full payment by Contractor, free and clear of all liens, claims, security interests or encumbrances, and that no work, material, or equipment covered by a request for payment will have been acquired by Contractor, or by any person performing work at the site or furnishing materials and equipment for the project, subject to an agreement

under which an interest therein or an encumbrance thereon is retained or otherwise imposed by Contractor or any other third person.

- B. Contractor shall warrant and guarantee to City, without limitations or qualification, that all equipment, components, materials, workmanship, and the system as an entity shall conform to and perform in accordance with local building codes.
- C. Contractor shall be fully responsible for any work knowingly performed contrary to said laws, codes and/or regulations, and shall fully indemnify City against loss and bear all costs and penalties arising therefrom.
- D. Contractor should note that following acceptance of Final Acceptance of the Work and final payment to Contractor by City, all Work (including without limitation all equipment, hardware, software, licenses, equipment, materials, guarantees, warranties, and rights relating thereto are property of the City. Submission of a proposal shall be deemed confirmation that (i) all guarantees, warranties licenses and other rights relating to the Work are property of the City.

50. SAFETY AND LEGAL REQUIREMENTS

Without in any way limiting any other term or provision of this Agreement or any obligation of Contractor hereunder, Contractor shall do or cause to be done all of the following: (a) perform the Services in a first-class manner that shall protect the health and safety of all patrons, employees and other users of the Facilities; (b) adhere to all laws, policies, rules, and regulations applicable to the Services to be provided by Contractor pursuant to this Agreement; (c) if an authorized management person of Company is not available, then contact the proper local authorities for assistance at a Facility when such assistance is appropriate for safety; and (d) obtain, maintain and comply with all licenses, permits and franchises or approvals from any governmental authority that may be required to enable Contractor to perform all of the Services and fulfill all of its obligations under this Agreement.

51. INDEPENDENT CONTRACTOR STATUS

Contractor is engaged hereunder as an independent contractor and as such shall be solely responsible for full compliance with all requirements under all laws and regulations now or in the future applicable to Contractor, its business affairs and its performance of its duties under or pursuant to this Agreement, including, without limitation, state and federal taxes applicable to this Agreement (including payroll taxes), unemployment insurance and other insurance applicable and necessary with respect to its employees and all of its duties and obligations as an employer. The relationship created by this Agreement is that of independent contractors, and nothing contained in this Agreement shall be deemed or construed as creating any partnership, joint venture, employment relationship, agency, or other relationship between the parties or to make Company liable for the debts or obligations of Contractor. No officer, employee, agent, or servant of

Contractor shall be deemed at any time to be an employee, servant, or agent of Company for any purpose whatsoever. The contractor shall require all of its personnel to refrain from making any representation by word or conduct whereby any other person might understand or believe that such persons are employees, agents, or servants of Company.

52. LIENS

Contractor shall be responsible for the satisfaction or payment of any liens for any provider of, among other things, work, labor, material, or services claiming by, through or under Contractor. The contractor shall also indemnify, hold harmless and defend the Company Indemnitees against any such liens, including attorneys' fees and costs. Contractor shall not cause, suffer, or authorize any lien, claim, or other encumbrance to be filed against the Facilities or underlying property in connection with Contractor's Services or the exercise of any right or privilege of Contractor under this Agreement. If Company notifies Contractor that such a lien has been filed against a Facility or underlying property by Contractor or any contractor performing work at a Facility at Contractor's request, then Contractor shall promptly have the lien bonded or removed and released of record at Contractor's sole cost and expense, no later than ten (10) days after notice thereof.