FLORIDA DEPARTMENT OF TRANSPORTATION
Procurement Office
1074 Highway 90
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BID No. DOT-ITB-21-3011-WE

Title: D3 RTMC Video Wall Display Replacement

Questions and Answers (Part 2)

Question 9	What (if any) are the hardwired video inputs that are connected to the Jupiter processors?
Answer 9	**As per section 4.6 System Hardware Requirements, the video display processor hardware shall be capable of ingesting industry- standard video signals for display, including DisplayPort, Digital Visual Interface (DVI), High-Definition Multimedia Interface (HDMI), Video Graphics Array (VGA)/ Red Green Blue Horizonal sync Vertical sync (RGBHV), Component Video, and Composite Video.**
Question 10	Are there current as-built diagrams of the AV system that can be shared?
Answer 10	**Attachment 5 indicates that the D3 RTMC As-Built Plans are to be emailed to the individual shown on the Invitation to Bid Registration Form. Please send a e-mail request to FDOT District 3 procurement.**
Question 11	What are the stream quantities/stream format expected to be decoded per site?
Answer 11	**As per section 4.12.1 software, the video wall management system shall support and be capable of displaying multiple types of video signal formats/stream quantities: MPEG2, MPEG4, 4K, and H.264, (forward compatible with H.265 industry-standard), IP based streaming video formats, remote desktops, video**

	graphics, web pages, graphics files, video files, and applications for simultaneous viewing on any system display.
Question 12	How many concurrent streams need to be supported on the videowall simultaneously? Based on the Main TMC layout it appears that a maximum of (4) sources per display is intended, resulting in a maximum of (72) streams simultaneously decoded, is this accurate?
Answer 12	**As per section 4.12 General System Requirements, the system shall support Soft KVM for multi-screen desktop displays, allowing multiple sources operating System display and control. As per section 4.12.1 Software, The video wall management system shall support and be capable of displaying multiple types of video signal formats.** **The video wall management system software shall support the option for an IP streaming video decoding that provides the system with the capability to view multiple IP video streams from multiple IP camera/streaming video encoder VENDORS in all industry-standard formats and resolutions.** **As per section 4.12.2 User Interface, The video wall management system software shall contain one or more graphical user interface (GUI) modules that provide the user with an intuitive interface to control and manage any and all content to be displayed on a single and on multiple video display processors in real time. The software-based GUI must be capable of managing all available system operational functions. The concurrent streams supported on the videowall simultaneously shall be customizable.**
Question 13	There is reference to a Crestron control system for the Main TMC videowall and TMC mobile displays. Is there an existing control processor and interface being replaced or is this completely new?
Answer 13	**As per section 4.3.4 Video Wall Control System: (Crestron® or equivalent), the Crestron or equivalent device is new. All video wall control equipment in this contract is new as indicated in the contract documents**
Question 14	There is reference to an audio system in the bid spec, is this being replaced/upgraded or will the current audio system remain in place?
Answer 14	**As per section 4.3.5 Audio Systems, includes audio cables, & connectors to ensure a complete and operational system to integrate with existing speaker system.** **As indicated in the project documents, the existing speakers will remain in place and the audio electronics, hardware, software, audio cables and connectors shall be provided.**
Question 15	Are the mobile cart's (2) 75"Samsung QM75R displays in addition to the main TMC videowall (18) displays or a use of that stock during the transition period?

Answer 15	**As per section 1.1 General: submit phased installation, cut-over plan, and schedule (maintaining 50% of existing video display capacity during transition).** **As per section 1.15.8 Phased System Installation Plan and Installation Schedule: The phased system installation plan and schedule shall be followed to ensure at least 50% functionality of the existing video display is maintained during installation of, and transition to the new display system. Six (6) portable carts suitable for mounting of display panels are included in the procurement to assist in providing uninterrupted 50% display functionality.** **As per section 4.3.2 Video Wall Display: RTMC Videowall: Sixteen (16) 75" LED-lit LCD Flat Panel displays configured in a 2 x 8 (Height x Width) monitor array. The main TMC videowall requires sixteen (16) displays.** **As per section 4.14.1 Portable Video Display Carts, Provide six (6) portable (wheeled) carts suitable for mounting display panels size 47 inches to 75 inches. Two (2) carts shall be equipped with 75" Samsung (TM) QMR75R Direct View or equivalent LED-lit LCD Flat Panels, four (4) will not include display. These are in addition to the displays required for the video wall.**
Question 16	Is the 80Kv UPS a replacement to an existing UPS or is this a new addition to the facility
Answer 16	**As per section 4.14.2 Rack mounted UPS for server room, the new 80K UPS shall be provided to replace the existing UPS.**
Question 17	Is customer agreeable to change to different display manufacturer if the supply chain becomes an issue?
Answer 17	**As per section 4.3.2 Video Wall Display, Includes SamsungTM QMR75R Direct View or equivalent LED-lit LCD Flat Panels.** **As per section 4.14.1 Portable Video Display Carts, Provide six (6) portable (wheeled) carts suitable for mounting display panels size 47 inches to 75 inches. Two (2) carts shall be equipped with 75" Samsung (TM) QMR75R Direct View or equivalent LED-lit LCD Flat Panels.** **Please submit product selections that meet project requirements with System Layout and Integration Plan.**
Question 18	Spec calls for 80kV UPS to be rack mounted. Such a product does not exist. Is a floor standing UPS acceptable?
Answer 18	**Rack mounted UPS units do exist. Please submit product selections that meet project requirements with System Layout and Integration Plan.** **Please see the link below for a sample available product:** **https://www.xpcc.com/products/m90-80/**

Question 19	How many streams does FDOT D3 want to see on each wall at one time?
Answer 19	**As per section 4.12 General System Requirements, The system shall support Soft KVM for multi-screen desktop displays, allowing multiple sources Operating System display and control. As per section 4.12.1 Software, The video wall management system shall support and be capable of displaying multiple types of video signal formats.** **The video wall management system software shall support the option for an IP streaming video decoding that provides the system with the capability to view multiple IP video streams from multiple IP camera/streaming video encoder VENDORS in all industry-standard formats and resolutions.** **As per section 4.12.2 User Interface, The video wall management system software shall contain one or more graphical user interface (GUI) modules that provide the user with an intuitive interface to control and manage any and all content to be displayed on a single and on multiple video display processors in real time. The software-based GUI must be capable of managing all available system operational functions. The concurrent streams supported on the videowall simultaneously shall be customizable.**
Question 20	What type of streams? (for example - H.264/MPEG2/MPEG4)
Answer 20	As per section 4.6 System Hardware Requirements, the video display processor hardware shall be capable of ingesting industry- standard video signals for display, including DisplayPort, Digital Visual Interface (DVI), High-Definition Multimedia Interface (HDMI), Video Graphics Array (VGA)/ Red Green Blue Horizonal sync Vertical sync (RGBHV), Component Video, and Composite Video. Also as per section 4.6 System Hardware Requirements, the video display processor hardware shall be capable of driving any commercially available display systems that utilize industry-standard video signal inputs, including DisplayPort, DVI, HDMI, VGA/RGBHV, Component Video, and Composite Video. As per section 4.12 General System Requirements, the system shall support Soft KVM for multi-screen desktop displays, allowing multiple sources operating System display and control. As per section 4.12.1 software, the video wall management system shall support and be capable of displaying multiple types of video signal formats/stream quantities: MPEG2, MPEG4, 4K, and H.264, (forward compatible with H.265 industry-standard), IP based streaming video formats, remote desktops, video graphics, web

	pages, graphics files, video files, and applications for simultaneous viewing on any system display. Also as per section 4.12.1 Software, The video wall management system shall support and be capable of displaying multiple types of video signal formats. The video wall management system software shall support the option for an IP streaming video decoding that provides the system with the capability to view multiple IP video streams from multiple IP camera/streaming video encoder VENDORS in all industry-standard formats and resolutions. As per section 4.12.2 User Interface, The video wall management system software shall contain one or more graphical user interface (GUI) modules that provide the user with an intuitive interface to control and manage any and all content to be displayed on a single and on multiple video display processors in real time. The software-based GUI must be capable of managing all available system operational functions. The concurrent streams supported on the videowall simultaneously shall be customizable.
Question 21	Does FDOT D3 need any hardwired inputs on the processor?
Answer 21	**As per section 4.6 System Hardware Requirements, the video display processor hardware shall be capable of ingesting industry- standard video signals for display, including DisplayPort, Digital Visual Interface (DVI), High-Definition Multimedia Interface (HDMI), Video Graphics Array (VGA)/ Red Green Blue Horizonal sync Vertical sync (RGBHV), Component Video, and Composite Video.**
Question 22	4.1 Does FDOT have a vendor of record regarding High Voltage work performed in the RTMC and Associated Sites?
Answer 22	**The contractor is responsible for providing a licensed electrician and responsible for the proposal and meeting the national and state requirements. FDOT Electrical representative will review the proposal for compliance.** **For any electrical work proposed, coordination with FDOT project manager and Facilities will be required .**
Question 23	4.3.2 If the Vendor proposes an alternate display configuration based on the physical wall dimensions will the alternate array size be considered an acceptable response?
Answer 23	**As per section 4.3.2 Video wall Display, Video wall display assembly equipped as follows:** **- RTMC Videowall: Sixteen (16) 75" LED-lit LCD Flat Panel displays configured in a 2 x 8 (Height x Width) monitor array.**

Question 24	4.3.3 Will FDOT require the use of existing equipment racks or will pre-populated enclosures shipped to site be an acceptable alternative.
Answer 24	**With the exception of the UPS, the intent is to use existing equipment racks. The vendor pre-populated enclosures shipped to the site are acceptable alternatives. The means and methods of the installation and installation location(s) of equipment rack(s) shall be documented in the System and Integration Plan.**
Question 25	4.3.5 Will FDOT provide a set of as built drawings for the existing system prior to the response deadline (referenced as a direct email in the documentation)?
Answer 25	**Attachment 5 indicates that the D3 RTMC As-Built Plans are to be emailed to the individual shown on the Invitation to Bid Registration Form. Please send a e-mail request to FDOT District 3 procurement.**
Question 26	4.3.6 What cabling is currently in place for signal transport between the RTMC, DEOC, and HQ?
Answer 26	**There is fiber optic cable between the RTMC, HQ buildings and the DEOC.**
Question 27	4.6 Can FDOT elaborate on the processing integration scope regarding VMWare?
Answer 27	**As per section 4.6 System Hardware Requirements. The system shall support embedded virtualization (VMWare or equivalent). Also, The video wall management system hardware shall be comprised of new, commercially available servers and workstations that are not approaching the end of life/service. Servers and workstations shall be specified, configured, and provided (where possible) by the VENDOR.** **Any virtualization software (VMWare or equivalent) provided for this project shall be provided on new equipment. Any virtualization software (VMWare or equivalent on existing servers owned by the department is NOT permitted.**
Question 28	4.8 Will a video wall specific model be acceptable as an alternative to a commercial large format displays?
Answer 28	**As per section 4.3.2 Video Wall Display, Includes Samsung QMR75R Direct View or equivalent LED-lit LCD Flat Panels.** **As per section 4.14.1 Portable Video Display Carts, Provide six (6) portable (wheeled) carts suitable for mounting display panels size 47 inches to 75 inches. Two (2) carts shall be equipped with 75" Samsung(TM) QMR75R Direct View or equivalent LED-lit LCD Flat Panels.**

	Please submit product selections that meet project requirements with System Layout and Integration Plan.
Question 29	Several time frames are referenced (below) in the specification. Please clarify the amount of time allowed from contract award until system installation completion before Liquidated Damages?
Answer 29	**Time allowed from contract execution to completion of system installation and testing before liquidated damages will be applied is 10 months.**
Question 30	COVID-19 Supply chain issues have affected the audiovisual industry globally. Will the contractor be responsible for manufacturer caused delivery delays that are beyond the contractor's control?
Answer 30	**See PUR 1001 Section 24**
Question 31	Do single line drawings exist of current audio, video and control systems? If so, will those be provided?
Answer 31	**See existing D3 RTMC Building-Audio System Drawing to be shared by FDOT procurement. The attachment 5 indicates that the D3 RTMC as-built plans are to be emailed to the individual shown on the invitation to Bid Registration Form. Please send a e-mail request to FDOT district 3 procurement.**
Question 32	Will existing RTMC video wall backing be re-evaluated to determine if it is structurally able to hold the new displays?
Answer 32	**The new monitors specified for RTMC video wall weigh less and consume less power than the existing RTMC video wall monitors.**
Question 33	If it's determined that the structure is not sufficient to hold the new displays, please confirm the structure and plywood backing will be provided by FDOT.
Answer 33	**The new monitors specified for RTMC video wall weigh less and consume less power than the existing RTMC video wall monitors.**
Question 34	Will AVC be responsible for replacing any equipment in the EOC rack room for signal distribution or is the intent to provide video signal only into existing network/fiber switches?
Answer 34	**As per section 4.3.6 Video Distribution to Remote Video Walls: The remote sites, including DEOC, HQ Building shall be comprised of existing displays. VENDOR will be responsible for configuring and connecting the displays to the main display server and integrating them into the video display system.**

Question 35	In the RTMC there are currently two 75" displays that exist on the right and one 55"-75" display on left. Are we planning on keeping these auxiliary displays as part of the functionality?
Answer 35	**As per section 4.4 Video Wall Installation: VENDOR shall remove, safeguard and deliver to a Department storage location as designated during the coordination meeting, all equipment from the existing video wall that is not going to be reused in this project. These monitors shall not be reused on this project. See attachment 4 -EXISTING AND PROPOSED VIDEO WALL LAYOUT**
Question 36	Is this a union site?
Answer 36	**No.**
Question 37	If new low voltage cabling is required, should the AVC assume responsibility for the cable provision and installation?
Answer 37	**As per section 4.3.2 Video Wall Display: Includes Samsung QMR75R Direct View or equivalent LED-lit LCD Flat Panels, cables, & connectors to ensure a complete and operational system.** **As per section 4.3.3 Video Wall Display Processor and Ancillaries: "Jupiter Catalyst XL or equivalent - Includes processor, video wall management software, cables, & connectors to ensure a complete and operational system.**
Question 38	Is a touch panel desired to control the video wall layouts?
Answer 38	**As per section 4.3.4 Video Wall Control System: (Crestron® or equivalent), the Crestron or equivalent device is new. All video wall control equipment in this contract is new as indicated in the contract documents.**
Question 39	What type of fiber is used for existing video transmission, Singlemode or Multimode?
Answer 39	**Single mode.**
Question 40	Will new fiber extenders be required to support new higher resolutions?
Answer 40	**As per section 4.1: The new FDOT D3 video wall solution must replace the existing solution and its components, providing additional viewing space and system enhancements. The new video wall solution, inclusive of all displays, servers, monitors, software, cables, components, and ancillary equipment must be furnished, installed, configured, and tested by the VENDOR at the new and existing sites as described in this Scope of Services.**

Question 41	Is there an input list for video sources?
Answer 41	**As per section 4.6 System Hardware Requirements, the video display processor hardware shall be capable of ingesting industry- standard video signals for display, including DisplayPort, Digital Visual Interface (DVI), High-Definition Multimedia Interface (HDMI), Video Graphics Array (VGA)/ Red Green Blue Horizonal sync Vertical sync (RGBHV), Component Video, and Composite Video.** **Also as per section 4.6 System Hardware Requirements, the video display processor hardware shall be capable of driving any commercially available display systems that utilize industry-standard video signal inputs, including DisplayPort, DVI, HDMI, VGA/RGBHV, Component Video, and Composite Video.** **As per section 4.12 General System Requirements, the system shall support Soft KVM for multi-screen desktop displays, allowing multiple sources operating System display and control.** **As per section 4.12.1 software, the video wall management system shall support and be capable of displaying multiple types of video signal formats/stream quantities: MPEG2, MPEG4, 4K, and H.264, (forward compatible with H.265 industry-standard), IP based streaming video formats, remote desktops, video graphics, web pages, graphics files, video files, and applications for simultaneous viewing on any system display.** **Also as per section 4.12.1 Software, The video wall management system shall support and be capable of displaying multiple types of video signal formats.** **The video wall management system software shall support the option for an IP streaming video decoding that provides the system with the capability to view multiple IP video streams from multiple IP camera/streaming video encoder VENDORS in all industry-standard formats and resolutions.** **As per section 4.12.2 User Interface, The video wall management system software shall contain one or more graphical user interface (GUI) modules that provide the user with an intuitive interface to control and manage any and all content to be displayed on a single and on multiple video display**

	processors in real time. The software-based GUI must be capable of managing all available system operational functions. The concurrent streams supported on the videowall simultaneously shall be customizable.
Question 42	Please clarify any audio scope.
Answer 42	**As per section 4.3.5 Audio Systems, includes audio cables, & connectors to ensure a complete and operational system to integrate with existing speaker system.** **As indicated in the project documents, the existing speakers will remain in place and the audio electronics, hardware, software, audio cables and connectors shall be provided.**
Question 43	After review with Jupiter, their seems to be some discrepancies with their understanding of the videowall processor functionality and the functionality detailed in the Bid Package. Can you please confirm total number of inputs and outputs desired for this processor?
Answer 43	**As per section 4.6 System Hardware Requirements, the video display processor hardware shall be capable of ingesting industry- standard video signals for display, including DisplayPort, Digital Visual Interface (DVI), High-Definition Multimedia Interface (HDMI), Video Graphics Array (VGA)/ Red Green Blue Horizonal sync Vertical sync (RGBHV), Component Video, and Composite Video.** **Also as per section 4.6 System Hardware Requirements, the video display processor hardware shall be capable of driving any commercially available display systems that utilize industry-standard video signal inputs, including DisplayPort, DVI, HDMI, VGA/RGBHV, Component Video, and Composite Video.** **As per section 4.12 General System Requirements, the system shall support Soft KVM for multi-screen desktop displays, allowing multiple sources operating System display and control.** **As per section 4.12.1 software, the video wall management system shall support and be capable of displaying multiple types of video signal formats/stream quantities: MPEG2, MPEG4, 4K, and H.264, (forward compatible with H.265 industry-standard), IP based streaming video formats, remote desktops, video graphics, web pages, graphics files, video files, and applications for simultaneous viewing on any system display.**

	Also as per section 4.12.1 Software, The video wall management system shall support and be capable of displaying multiple types of video signal formats. **The video wall management system software shall support the option for an IP streaming video decoding that provides the system with the capability to view multiple IP video streams from multiple IP camera/streaming video encoder VENDORS in all industry-standard formats and resolutions.** **As per section 4.12.2 User Interface, The video wall management system software shall contain one or more** **graphical user interface (GUI) modules that provide the user with an intuitive interface to control and manage any and all content to be displayed on a single and on multiple video display processors in real time. The software-based GUI must be capable of managing all available system operational functions. The concurrent streams supported on the videowall simultaneously shall be customizable**
Question 44	**Are proposals to be submitted via e-mail to FDOT? If so, please confirm the e-mail address where these must be sent to.**
Answer 44	**See Section 26; Electronic Submission**
Question 45	It appears that the proposed work will be exempt from Sales tax, per PUR 1000, p.6, section 16. Please confirm, must the Bidder include sales tax in the proposed price?
Answer 45	**Yes.**
Question 46	Please confirm the expected project schedule. a. RFP pg. 22, indicates 22 months including 12 months warranty, which suggests a 10 month project / installation schedule b. It later indicates (including Exhibit B) 3 mos. delivery of hardware, 1 month delivery & installation, 3-month final acceptance inspection, 1 month operator & maintenance training
Answer 46	**Yes. That is correct. The awarded vendor will have 10-months to complete the work and 12 months workmanship warranty. See Exhibit "B" Method of Compensation.**
Question 47	There are several references to the proposed system being compatible with SunGuide. a. Pg. A-18, 4.3.6 indicates "The provided video display solution must be compatible with and integrated with the SunGuide® server." b. Pg. A-20, 4.6 "…. shall be compatible with SunGuide® 7.2 or newer versions." c. Pg. A-25 4.12.1 "The video wall management system shall already be supported by SunGuide® 7.2 and newer versions." Please elaborate on what operational integration with SunGuide is required?

Answer 47	SunGuide 7.2 or newer is the software the department uses for operating the RTMC. Therefore SunGuide software must already be integrated with the proposed video wall solution.
Question 48	Page A-5, 1.1 requires "Perform standalone, sub-system and final acceptance testing of system functionality and performance per the FDOT Standard and Supplemental Specifications, subject to FDOT D3's witness and approval." a. Please confirm, does this requirement refer specifically to system testing, per "682-22.4 Testing"? b. Are there other aspects of the FDOT Standard Specification that must be met, rather than the RFP specifications? c. Considering the RFP release in May, which version of FDOT Standard Specifications are applicable, January 2021 or July 2021?
Answer 48	**Part a:** **As per section 4.10: VENDOR shall provide a written test plan for approval 45 days before conducting system tests. The system test shall demonstrate the full functionality of the video wall and associated items.** **After system acceptance testing is completed, conduct a continuous 90 calendar day operational test. Include all control, monitoring, and communications functions of the Video Wall. This test shall demonstrate that the Video Wall is installed function properly over the 90- day test period. During the test period, limit cumulative downtime due to any mechanical, electrical, software, and/or other malfunctions to a maximum of one (1) total calendar day. If any part of the Video Wall System has been modified as a result of a system acceptance test failure, prepare a report describing the nature of the failure and the corrective action taken and submit it to the DEPARTMENT before re-testing. If a failure pattern develops, the DEPARTMENT may direct that a design and/or construction modification be made.** **The DEPARTMENT has the option to require a restart of the operational test if a major system flaw or failure occurs. Restart tests at day zero for a new 90 consecutive calendar day test period as directed and approved by the Department, unless corrections are made within the maximum allowable outage times, major system flaw and failure requirements for video wall set by the 'B' contract. If the maximum allowable outage times have been met, then the operational test shutdown will be reclassified as an operational test suspension and the test will recommence at the point it was stopped upon approval by the DEPARTMENT. Provide the following when the total number of**

	operational test shutdowns equals three for the same subsystem and/or ITS device: • Remove and replace device with a new and unused unit as per the requirements of this 'B' contract. • Perform again all applicable tests, as stated in the 'B' contract. • Upon written approval from the Department's representative, restart the operational test for a new 30 consecutive calendar day period. Part b: As per section 4.4: Video Wall Installation: Except as specifically noted in the plans, scope of work, or 'B' Contract package, all materials and installation shall be per the latest FDOT's Standard Specifications for Road and Bridge Construction, January 2021. Part c: As per section 4.4: Video Wall Installation: all materials and installation shall be per the latest FDOT's Standard Specifications for Road and Bridge Construction, January 2021.
Question 49	The Attachment 2 Concept drawing indicates only IP video streams, though the specs (4.6, pg. A-20) indicate the capability to ingest other standard video sources (DVI, HDMI, etc.). a. What other video sources must the proposed Video Display System be configured to ingest? Please indicate the types of sources (e.g., operator PCs, TV tuners, etc.) and the quantities that must be displayed simultaneously on the video wall and other displays connected to the system.
Answer 49	As per section 4.6 System Hardware Requirements, the video display processor hardware shall be capable of ingesting industry- standard video signals for display, including DisplayPort, Digital Visual Interface (DVI), High-Definition Multimedia Interface (HDMI), Video Graphics Array (VGA)/ Red Green Blue Horizonal sync Vertical sync (RGBHV), Component Video, and Composite Video. Also as per section 4.6 System Hardware Requirements, the video display processor hardware shall be capable of driving any commercially available display systems that utilize industry-standard video signal inputs, including DisplayPort, DVI, HDMI, VGA/RGBHV, Component Video, and Composite Video. As per section 4.12 General System Requirements, the system shall support Soft KVM for multi-screen desktop displays, allowing multiple sources operating System display and control. As per section 4.12.1 software, the video wall management system shall support and be capable of displaying multiple types

	of video signal formats/stream quantities: MPEG2, MPEG4, 4K, and H.264, (forward compatible with H.265 industry-standard), IP based streaming video formats, remote desktops, video graphics, web pages, graphics files, video files, and applications for simultaneous viewing on any system display. Also as per section 4.12.1 Software, The video wall management system shall support and be capable of displaying multiple types of video signal formats. The video wall management system software shall support the option for an IP streaming video decoding that provides the system with the capability to view multiple IP video streams from multiple IP camera/streaming video encoder VENDORS in all industry-standard formats and resolutions. As per section 4.12.2 User Interface, The video wall management system software shall contain one or more graphical user interface (GUI) modules that provide the user with an intuitive interface to control and manage any and all content to be displayed on a single and on multiple video display processors in real time. The software-based GUI must be capable of managing all available system operational functions. The concurrent streams supported on the videowall simultaneously shall be customizable.
Questions 50	Will FDOT provide appropriate rack space for Video Wall Display System Components that need to be located in the remote locations (Admin Building, Lobby, EOC)?
Answer 50	As existing video wall system components are being replaced, existing space should be sufficient, however as per section 4.1 The new FDOT D3 video wall solution must replace the existing solution and its components, providing additional viewing space and system enhancements. The new video wall solution, inclusive of all displays, servers, monitors, software, cables, components, and ancillary equipment must be furnished, installed, configured, and tested by the VENDOR at the new and existing sites as described in this Scope of Services.
Question 51	D3 Video Display System Upgrade Concept Diagram a. Why is the EOC separated while though the EOC, Admin Building & Reception are in the same building? b. Is there an existing FDOT network connection between the TMC and the Admin Building / Reception area to support? i. If so, can the FDOT network connection between these two locations be used to link the Video Display System components in both locations?
Answer 51	a. The buildings are planned, designed and constructed as approved.

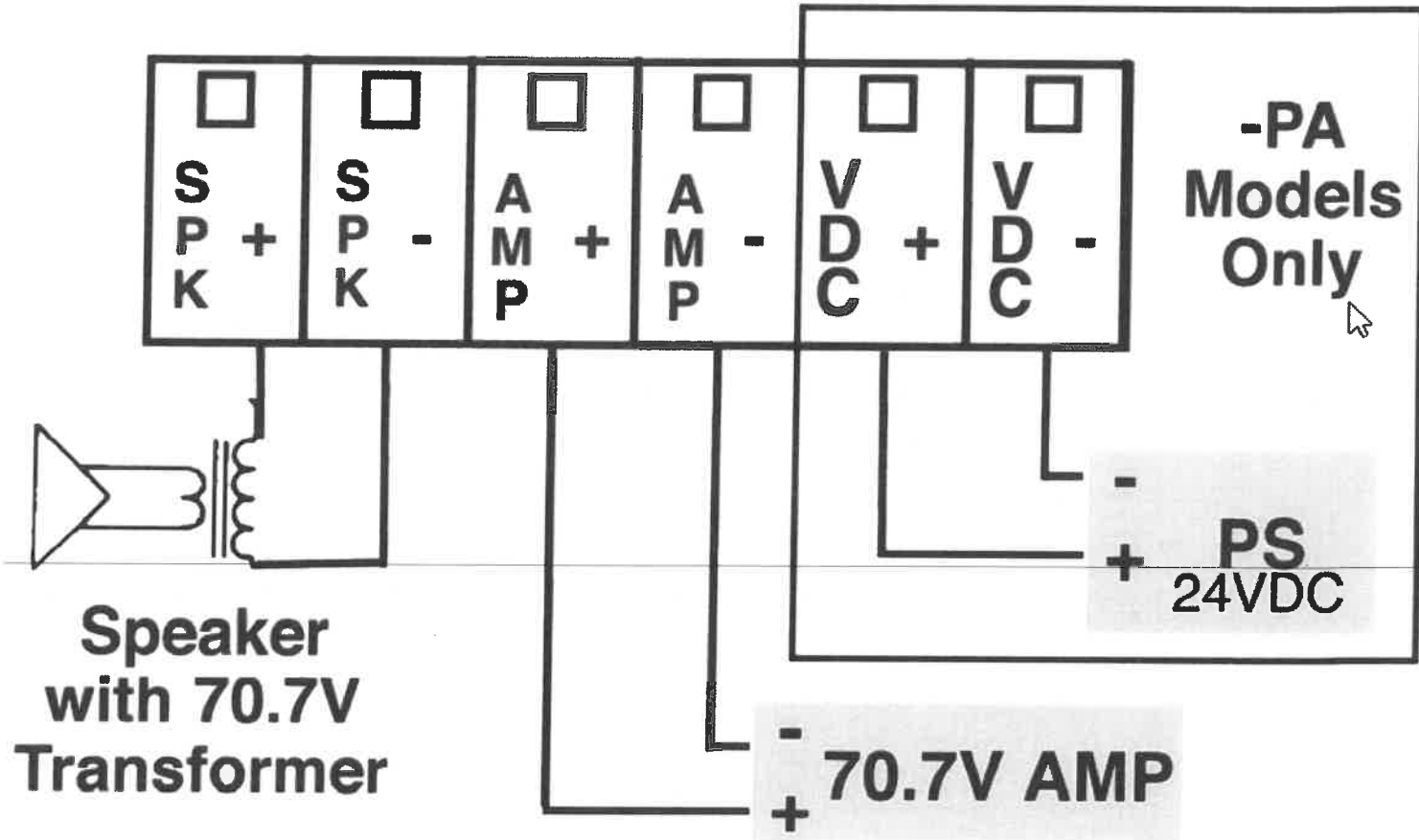|	
	b. Yes. Fiber Optic Cable is used for existing FDOT network connection between the TMC and the Admin Building / Reception area to support. i. Yes.
Question 52	The FDOT Standard for LCD's Section 682 requires a minimum display resolution of 1600x1200/1280x768 which is an outdated specification but this project is based on using the Samsung QMR75R which is a 4k LCD. a. Does FDOT D3 require bidders to drive at native 4k resolution or is scaling up acceptable?
Answer 52	**a. The project contract TECHNICAL SPECIFICATIONS documentation requires display resolution greater than the minimum resolution required in the FDOT specifications. Therefore, the system shall provide resolution to support the monitors required the project contract TECHNICAL SPECIFICATIONS documentation.**
Question 53	The D3 Display System-Upgrade Concept Diagram shows the EOC video wall. a. Does this EOC video wall have a dedicated video wall processor /control system today or is this wall dedicated and controlled by TMC personnel? b. What is the video signal type driving this 4x2 array? c. How far is the intended processor location from the video wall?
Answer 53	**a. Each video wall is controlled by the local users. (EOC Building video wall / Administration building video wall)** **b. The video signal driving the EOC Building Video wall 4 X 2 array is HDMI with video extender.** **c. The intended processor location from the video wall is approximately 50 feet distance.**
Question 54	In Paragraph 4.3.5 Audio System The paragraph states there is to be a "New system to interface with the existing speaker system at the RTMC." Further in the Document there is reference to Zone control and source selection. a. Question: Is there an As-Built Drawing for current Audio system that shows the Input/Outputs? b. Question: Is there list for the input selections and Zoning? c. Question: What is the Make/Model Number of the Speakers currently installed? d. Question: Are the current speakers 70V/100V or 8 Ohm? e. Question: What is the Make/Model # of the current Amplifier?

Answer 54	**Part a.** **See attached D3 RTMC Building-Audio System Drawing as a reference.** **Part b.** **See attached D3 RTMC Building-Audio System Drawing as a reference..** **Part c.** **Audio equipment are as listed below as answer to part e.** **Part d.** **Audio equipment are as listed below as answer to part e.** **Part e.** **- Protea Equipped Media Amplifier Network Power Amp 8 x 125W @ 4 Ohms & 25V w/ 8x8 DSP Processor Model 8125 Amplifier 70Volt ASHLY** **- Protea, Digital Signal Processing for the Protea-Equipped Media Amplifier ASHLY** **- Call Station: BOSCH** **- 4 Zone Rackmount Mono Routing Mixer (UL Approved)** **- 6 Momo Mic/Line Inputs Model ZMR4: Australian Monitor)** **- Control 24C with Transformer for amplifier/speakers: JBL** **- Attenuators, ATN 100W, 3DB, 1 GNG SS: Atlas Sound**
Question 55	In Paragraph 4.3.7 Remote Video Wall Systems This paragraph and others state that if the Vendor alters the FDOT D3 network connections it will be the responsibility of the Vendor to provide any equipment required to extend… a. Question: Is there an As-Built Drawing for what the network currently has so that we may Bid the appropriate equipment if necessary?
Answer 55	**Attachment 5 indicates that the D3 RTMC As-Built Plans are to be emailed to the individual shown on the Invitation to Bid Registration Form. Please send a e-mail request to FDOT District 3 procurement.**
Question 56	In Paragraph 4.4 Video Wall Installation Bullet Point one states that "all materials and installation shall be per the latest FDOT Standards as of January 2021". a. Question: Is this standard available for review by the vendor?

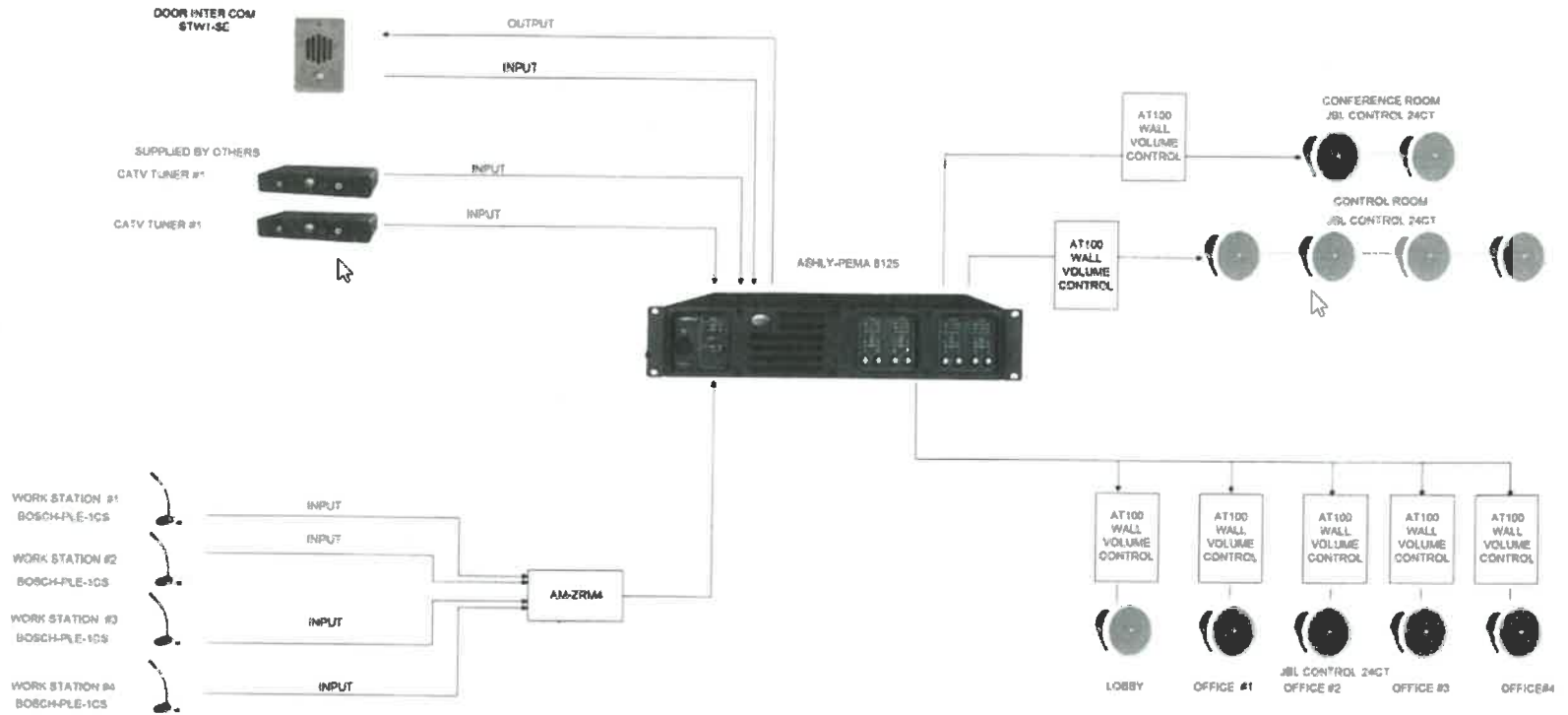|	
Answer 56	**Latest FDOT Standards and Specifications are available here:** **https://www.fdot.gov/programmanagement/Implemented/Specbooks/Default.shtm**
Question 57	In Paragraph 4.6 Bullet point 6 and 7 These bullets are calling out the capability of the Display Processor to Ingest or output Multiple signal types to include VGA, Component and Composite Video Signals. a. Question: Is there an input/output count of these signal types? b. Question: Is there an As-Built drawing for the current system so that the correct input or output cards or other conversion equipment can be accounted for?
Answer 57	**Part a:** **As per section 4.6 System Hardware Requirements, the video display processor hardware shall be capable of ingesting industry- standard video signals for display, including DisplayPort, Digital Visual Interface (DVI), High-Definition Multimedia Interface (HDMI), Video Graphics Array (VGA)/ Red Green Blue Horizonal sync Vertical sync (RGBHV), Component Video, and Composite Video.** **Also as per section 4.6 System Hardware Requirements, the video display processor hardware shall be capable of driving any commercially available display systems that utilize industry- standard video signal inputs, including DisplayPort, DVI, HDMI, VGA/RGBHV, Component Video, and Composite Video.** **As per section 4.12 General System Requirements, the system shall support Soft KVM for multi-screen desktop displays, allowing multiple sources operating System display and control.** **As per section 4.12.1 software, the video wall management system shall support and be capable of displaying multiple types of video signal formats/stream quantities: MPEG2, MPEG4, 4K, and H.264, (forward compatible with H.265 industry-standard), IP based streaming video formats, remote desktops, video graphics, web pages, graphics files, video files, and applications for simultaneous viewing on any system display.** **Also as per section 4.12.1 Software, The video wall management system shall support and be capable of displaying multiple types of video signal formats.** **The video wall management system software shall support the option for an IP streaming video decoding that provides the system with the capability to view multiple IP video streams from multiple IP camera/streaming video encoder VENDORS in all industry-standard formats and resolutions.** **As per section 4.12.2 User Interface, The video wall management system software shall contain one or more**

	graphical user interface (GUI) modules that provide the user with an intuitive interface to control and manage any and all content to be displayed on a single and on multiple video display processors in real time. The software-based GUI must be capable of managing all available system operational functions. The concurrent streams supported on the videowall simultaneously shall be customizable. **Part b:** **As-built drawing for the current system is not available at this time.**
Question 58	In Paragraph 4.12 General System Requirements There are several references to Remote monitoring or distribution of signals to Diverse locations. a. Question: Is the Vendor responsible for the equipment necessary to accomplish this? b. Question: Are the Video system devices allowed to be on the Client network? c. Question: Are there current provisions and equipment for Firewalls in accordance with FDOT Security standards?
Answer 58	**a. While the vendor is not responsible for equipment at the remote sites, the system is required to be capable of distribution of the video wall signals over the existing network.** **b. Yes, the video system devices will be installed on the existing FDOT network.** **c. FDOT is responsible for any firewall equipment and provisioning on their network**
Question 59	Is FDOT agreeable to an alternative size (ex. 55" thin bezel video wall monitor) that could accommodate the same wall real estate. For example, instead of the 6x2 of 75" panels called for in the spec, would they be open to a 10x3 of 55" panels as an alternative to have a true video wall that is fully customizable?

Answer 59	As per section 4.3.2 Video Wall Display: Video wall display assembly equipped as follows: • RTMC Videowall: Sixteen (16) 75" LED-lit LCD Flat Panel displays configured in a 2 x 8 (Height x Width) monitor array.

Speaker
with 70.7V
Transformer

SPK + **SPK -** **AMP +** **AMP -** **VDC +** **VDC -**

-PA
Models
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Existing D3 RTMC Building-Audio System—Drawing